



**Groundwater Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 1601370**

*Naval Air Station Oceana
Virginia Beach, Virginia*

July 2019

November 10, 2016

Vista Work Order No. 1601370

Ms. Tiffany Hill
CH2M Hill
1100 NE Circle Blvd. Suite 300
Corvallis, OR 97330

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 27, 2016. This sample set was analyzed on a rush turn-around time, under your Project Name 'Oceana PFCs CTO-WE14'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,



Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1601370

Case Narrative

Sample Condition on Receipt:

Eleven aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

Modified EPA Method 537

The aqueous samples were extracted and analyzed for a selected list of 6 PFAS using Modified EPA Method 537.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 of the LOQ concentrations. The LCS/LCSD recoveries were within the method acceptance criteria.

The concentrations of PFOS were above the upper calibration level in samples "OW11-MW9-1016", "OW11-MW9P-1016", "OW11-MW1-1016", "OW11-MW7-1016", "OW11-MW5-1016", "OW11-MW6-1016", "OW11-MW4-1016" and the MS/MSD. The results were taken from 1:40 dilutions of the extracts. The upper curve limit is 32,000 ng/L in the dilutions, based on a 125mL extraction volume. As requested, Vista will re-extract these samples and attempt to report PFOS within the calibration curve. The results will be reported as Vista Work Order # 1601437.

As requested, an MS/MSD was performed on sample "OW11-MW5-1016".

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1601370-10	MW-BG13P-1016	Modified EPA Method 537	13C3-PFBS	H	58.1
1601370-10	MW-BG13P-1016	Modified EPA Method 537	13C4-PFHpA	H	58.1
1601370-10	MW-BG13P-1016	Modified EPA Method 537	18O2-PFHxS	H	53.1
1601370-10	MW-BG13P-1016	Modified EPA Method 537	13C2-PFOA	H	49.7

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1601370-01	OW11-MW9-1016		25-Oct-16 10:30	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-02	OW11-MW9P-1016		25-Oct-16 10:35	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-03	OW11-MW8-1016		25-Oct-16 11:20	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-04	OW11-MW1-1016		25-Oct-16 12:25	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-05	OW11-MW7-1016		25-Oct-16 13:20	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-06	OW11-MW5-1016	MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD	25-Oct-16 14:10	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-07	OW11-MW6-1016		26-Oct-16 09:45	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-08	OW11-MW4-1016		26-Oct-16 10:40	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-09	MW-BG13-1016		26-Oct-16 11:35	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-10	MW-BG13P-1016		26-Oct-16 11:40	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-11	MW-BG12-1016		26-Oct-16 13:05	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537			
Matrix: Aqueous		QC Batch: B6K0001		Lab Sample: B6K0001-BLK1					
Sample Size: 0.125 L		Date Extracted: 01-Nov-2016 8:58		Date Analyzed: 01-Nov-16 19:02	Column: BEH C18				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	<4.00	1.79	4.00	8.00		IS 13C3-PFBS	68.2	60 - 150	
PFHpA	<2.00	0.591	2.00	8.00		IS 13C4-PFHpA	74.9	60 - 150	
PFHxS	<2.00	0.947	2.00	8.00		IS 18O2-PFHxS	70.0	60 - 150	
PFOA	0.818	0.651	2.00	8.00	J	IS 13C2-PFOA	60.2	60 - 150	
PFOS	<0.900	0.807	0.900	8.00		IS 13C8-PFOS	74.7	60 - 150	
PFNA	<2.00	0.810	2.00	8.00		IS 13C5-PFNA	68.2	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

LCS Results

Modified EPA Method 537

Matrix: Aqueous Sample Size: 0.125 L	QC Batch: B6K0001 Date Extracted: 01-Nov-2016 8:58	Lab Sample: B6K0001-BS1/B6K0001-BSD1 Date Analyzed: 01-Nov-16 18:12 Column: BEH C18 01-Nov-16 18:24 Column: BEH C18
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Analyte	LCS-%R	LCSD-%R	RPD	Labeled Standard	LCS-%R	LCSD-%R
PFBS	92.8	78.3	16.9	IS 13C3-PFBS	90.4	101
PFHpA	98.7	89.5	9.80	IS 13C4-PFHpA	93.4	103
PFHxS	97.3	85.8	12.5	IS 18O2-PFHxS	86.5	95.8
PFOA	104	97.0	7.31	IS 13C2-PFOA	74.2	83.2
PFOS	93.4	73.7	23.5	IS 13C8-PFOS	79.0	101
PFNA	101	91.7	9.58	IS 13C5-PFNA	79.4	88.4

LCL-UCL - Lower control limit - upper control limit

Sample ID: OW11-MW9-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-01	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.126 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 10:30			Date Analyzed:	02-Nov-16 21:48	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	2150	71.3	159.	318	D	IS 13C3-PFBS	82.7	60 - 150	D
PFHpA	4570	23.5	79.4	318	D	IS 13C4-PFHpA	89.4	60 - 150	D
PFHxS	22200	37.7	79.4	318	D	IS 18O2-PFHxS	96.5	60 - 150	D
PFOA	8550	25.9	79.4	318	B, D	IS 13C2-PFOA	113	60 - 150	D
PFOS	101000	32.1	35.7	318	E, D	IS 13C8-PFOS	71.2	60 - 150	D
PFNA	956	32.2	79.4	318	D	IS 13C5-PFNA	73.3	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW9P-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-02	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.124 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 10:35			Date Analyzed:	04-Nov-16 16:13	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	1930	72.4	161.	323	D	IS 13C3-PFBS	86.7	60 - 150	D
PFHpA	3940	23.9	80.6	323	D	IS 13C4-PFHpA	82.8	60 - 150	D
PFHxS	24200	38.3	80.6	323	D	IS 18O2-PFHxS	82.5	60 - 150	D
PFOA	10100	26.3	80.6	323	B, D	IS 13C2-PFOA	101	60 - 150	D
PFOS	74400	32.6	36.3	323	E, D	IS 13C8-PFOS	81.4	60 - 150	D
PFNA	978	32.7	80.6	323	D	IS 13C5-PFNA	78.6	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW8-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-03	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.123 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 11:20			Date Analyzed:	02-Nov-16 00:17	Column:	BEH C18
Location:	OCEANA SITE 11				02-Nov-16 22:49	Column:	BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	1700	36.4	81.3	163	D	IS 13C3-PFBS	87.0	60 - 150	D
PFHpA	2630	12.0	40.7	163	D	IS 13C4-PFHpA	78.6	60 - 150	D
PFHxS	16900	19.3	40.7	163	D	IS 18O2-PFHxS	89.4	60 - 150	D
PFOA	5360	13.2	40.7	163	B, D	IS 13C2-PFOA	88.2	60 - 150	D
PFOS	18800	16.4	18.3	163	D	IS 13C8-PFOS	72.3	60 - 150	D
PFNA	151	0.824	2.03	8.14		IS 13C5-PFNA	75.1	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW1-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-04	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.126 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 12:25			Date Analyzed:	02-Nov-16 23:13	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	1520	71.1	159.	318	D	IS 13C3-PFBS	84.9	60 - 150	D
PFHpA	9820	23.5	79.4	318	D	IS 13C4-PFHpA	81.4	60 - 150	D
PFHxS	30500	37.6	79.4	318	D	IS 18O2-PFHxS	100	60 - 150	D
PFOA	11600	25.8	79.4	318	B, D	IS 13C2-PFOA	114	60 - 150	D
PFOS	213000	32.0	35.7	318	E, D	IS 13C8-PFOS	90.3	60 - 150	D
PFNA	1970	32.2	79.4	318	D	IS 13C5-PFNA	80.7	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW7-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-05	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.124 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 13:20			Date Analyzed:	03-Nov-16 01:40	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	2290	72.1	161.	322	D	IS 13C3-PFBS	88.6	60 - 150	D
PFHpA	10100	23.8	80.6	322	D	IS 13C4-PFHpA	84.3	60 - 150	D
PFHxS	37100	38.1	80.6	322	D	IS 18O2-PFHxS	90.0	60 - 150	D
PFOA	18700	26.2	80.6	322	B, D	IS 13C2-PFOA	94.2	60 - 150	D
PFOS	264000	32.5	36.3	322	E, D	IS 13C8-PFOS	87.5	60 - 150	D
PFNA	2660	32.6	80.6	322	D	IS 13C5-PFNA	68.6	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW5-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-06	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.121 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 14:10			Date Analyzed:	03-Nov-16 02:29	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3330	74.1	165.	331	D	IS 13C3-PFBS	87.8	60 - 150	D
PFHpA	2480	24.5	82.6	331	D	IS 13C4-PFHpA	79.8	60 - 150	D
PFHxS	25500	39.2	82.6	331	D	IS 18O2-PFHxS	104	60 - 150	D
PFOA	4100	26.9	82.6	331	B, D	IS 13C2-PFOA	93.8	60 - 150	D
PFOS	67000	33.4	37.2	331	E, D	IS 13C8-PFOS	77.3	60 - 150	D
PFNA	596	33.5	82.6	331	D	IS 13C5-PFNA	73.1	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Matrix Spike Results

Modified EPA Method 537

Source Client ID: OW11-MW5-1016	QC Batch: B6K0001	Lab Sample: B6K0001-MS1/B6K0001-MSD1
Source LabNumber: 1601370-06	Date Extracted: 01-Nov-2016 8:58	Date Analyzed: 03-Nov-16 00:02 Column: BEH C18
Matrix: Aqueous		03-Nov-16 01:16 Column: BEH C18
Sample Size: 0.125/0.126 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	RPD	MSD Qual.	%R Limit	%RPD Limit	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
PFBS	79.9	557	D, H	79.6	324	52.9	D, H	60 - 130	25	IS 13C3-PFBS	82.5	D	84.8	D
PFHpA	79.9	313	D, H	79.6	741	81.2	D, H	70 - 130	25	IS 13C4-PFHpA	76.2	D	78.5	D
PFHxS	79.9	6520	D, H	79.6	4030	47.2	D, H	70 - 130	25	IS 18O2-PFHxS	81.0	D	95.7	D
PFOA	79.9	663	3, D, F	79.6	565	16.0	3, D, F	70 - 130	25	IS 13C2-PFOA	84.2	D	77.3	D
PFOS	79.9	760	D, H	79.6	7820	165	D, H	70 - 130	25	IS 13C8-PFOS	75.4	D	76.7	D
PFNA	79.9	106	D	79.6	77.7	30.8	D, H	50 - 130	25	IS 13C5-PFNA	71.4	D	69.3	D

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW6-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-07	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.124 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 9:45			Date Analyzed:	03-Nov-16 02:54	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3580	72.1	161.	322	D	IS 13C3-PFBS	90.9	60 - 150	D
PFHpA	4360	23.8	80.6	322	D	IS 13C4-PFHpA	78.4	60 - 150	D
PFHxS	38900	38.1	80.6	322	D	IS 18O2-PFHxS	90.0	60 - 150	D
PFOA	11300	26.2	80.6	322	B, D	IS 13C2-PFOA	101	60 - 150	D
PFOS	133000	32.5	36.3	322	E, D	IS 13C8-PFOS	71.7	60 - 150	D
PFNA	1080	32.6	80.6	322	D	IS 13C5-PFNA	64.7	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW4-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-08	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.129 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 10:40			Date Analyzed:	02-Nov-16 13:25	Column:	BEH C18
Location:	OCEANA SITE 11				03-Nov-16 03:43	Column:	BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	5270	69.4	155.	310	D	IS 13C3-PFBS	98.2	60 - 150	D
PFHpA	2630	22.9	77.5	310	D	IS 13C4-PFHpA	81.3	60 - 150	D
PFHxS	33100	36.7	77.5	310	D	IS 18O2-PFHxS	94.5	60 - 150	D
PFOA	1540	25.2	77.5	310	B, D	IS 13C2-PFOA	83.1	60 - 150	D
PFOS	44800	31.3	34.9	310	E, D	IS 13C8-PFOS	75.3	60 - 150	D
PFNA	99.5	0.785	1.94	7.75		IS 13C5-PFNA	83.0	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-BG13-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-09	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.122 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 11:35			Date Analyzed:	02-Nov-16 13:38	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	<4.10	1.83	4.10	8.20		IS 13C3-PFBS	80.4	60 - 150	
PFHpA	0.997	0.606	2.05	8.20	J	IS 13C4-PFHpA	93.0	60 - 150	
PFHxS	12.3	0.971	2.05	8.20		IS 18O2-PFHxS	77.8	60 - 150	
PFOA	2.60	0.667	2.05	8.20	J, B	IS 13C2-PFOA	76.9	60 - 150	
PFOS	28.7	0.827	0.922	8.20		IS 13C8-PFOS	85.4	60 - 150	
PFNA	<2.05	0.830	2.05	8.20		IS 13C5-PFNA	77.9	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-BG13P-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-10	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.127 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 11:40			Date Analyzed:	02-Nov-16 13:50	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	<3.94	1.76	3.94	7.89		IS 13C3-PFBS	58.1	60 - 150	H
PFHpA	<1.97	0.583	1.97	7.89		IS 13C4-PFHpA	58.1	60 - 150	H
PFHxS	<1.97	0.934	1.97	7.89		IS 18O2-PFHxS	53.1	60 - 150	H
PFOA	<1.97	0.642	1.97	7.89		IS 13C2-PFOA	49.7	60 - 150	H
PFOS	15.6	0.796	0.886	7.89		IS 13C8-PFOS	62.5	60 - 150	
PFNA	<1.97	0.799	1.97	7.89		IS 13C5-PFNA	50.9	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-BG12-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-11	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.126 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 13:05			Date Analyzed:	02-Nov-16 14:03	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	6.95	1.77	3.97	7.92	J	IS 13C3-PFBS	80.5	60 - 150	
PFHpA	2.70	0.585	1.98	7.92	J	IS 13C4-PFHpA	69.5	60 - 150	
PFHxS	79.7	0.938	1.98	7.92		IS 18O2-PFHxS	67.0	60 - 150	
PFOA	10.2	0.645	1.98	7.92	B	IS 13C2-PFOA	62.9	60 - 150	
PFOS	46.5	0.799	0.893	7.92		IS 13C8-PFOS	74.0	60 - 150	
PFNA	1.37	0.802	1.98	7.92	J	IS 13C5-PFNA	66.3	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The associated compound concentration exceeded the calibration range of the instrument.
H	Recovery and/or RPD was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ.
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-004
Pennsylvania Department of Environmental Protection	012
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	7923
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope	EPA 1613B

Dilution GC/HRMS	
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: 1601370 Temp: 1.0 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: CTO-WE14 OCEANA PFC P.O.#: 10006-7-105690 Sampler: R. McELHINNY
 (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Invoice to: Name TIFFANY HILL Company CH2M Address 5701 CLEVELAND ST City VIRGINIA BEACH State VA Ph# 541-768-3109 Fax# _____

Relinquished by (printed name and signature) MARITA CLAY Date 10/26/16 Time 1515 Received by (printed name and signature) B. Benedict Date 10/27/16 Time 0930

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: FEDEX
 ATTN: MARTHA MAIER Tracking No.: _____

Quantity	Type	Matrix	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29	Med. EPA 537	Comments

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29	Med. EPA 537	Comments		
OW11-MW9-1016	10/25	1030	OCEANA SITE 11	2	0	AQ														2		
OW11-MW9P-1016	10/25	1035	OCEANA SITE 11	2	0	AQ															2	
OW11-MW8-1016	10/25	1120	OCEANA SITE 11	2	0	AQ															2	
OW11-MW1-1016	10/25	1225	OCEANA SITE 11	2	0	AQ															2	
OW11-MW7-1016	10/25	1320	OCEANA SITE 11	2	0	AQ															2	
OW11-MW5-1016	10/25	1410	OCEANA SITE 11	2	0	AQ															2	
OW11-MW5-1016-M5	10/25	1410	OCEANA SITE 11	2	0	AQ															2	
OW11-MW5-1016-SD	10/25	1410	OCEANA SITE 11	2	0	AQ															2	
OW11-MW6-1016	10/26	0945	OCEANA SITE 11	2	0	AQ															2	
OW11-MW4-1016	10/26	1040	OCEANA SITE 11	2	0	AQ															2	

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: TIFFANY HILL
 Company: CH2M
 Address: 5701 CLEVELAND ST
 City: VIRGINIA BEACH State: VA Zip: 23462
 Phone: 541-768-3109 Fax: _____
 Email: TIFFANY.HILL@CH2M.COM

Container Types: A = 1 Liter Amber, G = Glass Jar
 Bottle Preservation Type: T = Thiosulfate,
 P = PUF, T = MM5, O = Other: 125 mL O = Other: _____
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1601370 TAT 14

Samples Arrival:	Date/Time <u>10/27/16 0853</u>	Initials: <u>JBAB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>10/27/16 1405</u>	Initials: <u>JBAB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>A4</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: <u>1.3</u> (uncorrected)	Time: <u>0930</u>	Thermometer ID: IR-1	
Temp °C: <u>1.0</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk # <u>7844 6670 4468</u>	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	<input type="checkbox"/> Na ₂ S ₂ O ₃	<input type="checkbox"/> Trizma	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain <input type="checkbox"/> Return <input type="checkbox"/> Dispose

Comments: Sample label : OW-MW6-1016
COC id : DW11-MW6-1016

November 10, 2016

Vista Work Order No. 1601370

Ms. Tiffany Hill
CH2M Hill
1100 NE Circle Blvd. Suite 300
Corvallis, OR 97330

Dear Ms. Hill,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 27, 2016. This sample set was analyzed on a rush turn-around time, under your Project Name 'Oceana PFCs CTO-WE14'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,



Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1601370

Case Narrative

Sample Condition on Receipt:

Eleven aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

Modified EPA Method 537

The aqueous samples were extracted and analyzed for a selected list of 6 PFAS using Modified EPA Method 537.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 of the LOQ concentrations. The LCS/LCSD recoveries were within the method acceptance criteria.

The concentrations of PFOS were above the upper calibration level in samples "OW11-MW9-1016", "OW11-MW9P-1016", "OW11-MW1-1016", "OW11-MW7-1016", "OW11-MW5-1016", "OW11-MW6-1016", "OW11-MW4-1016" and the MS/MSD. The results were taken from 1:40 dilutions of the extracts. The upper curve limit is 32,000 ng/L in the dilutions, based on a 125mL extraction volume. As requested, Vista will re-extract these samples and attempt to report PFOS within the calibration curve. The results will be reported as Vista Work Order # 1601437.

As requested, an MS/MSD was performed on sample "OW11-MW5-1016".

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1601370-10	MW-BG13P-1016	Modified EPA Method 537	13C3-PFBS	H	58.1
1601370-10	MW-BG13P-1016	Modified EPA Method 537	13C4-PFHpA	H	58.1
1601370-10	MW-BG13P-1016	Modified EPA Method 537	18O2-PFHxS	H	53.1
1601370-10	MW-BG13P-1016	Modified EPA Method 537	13C2-PFOA	H	49.7

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID		Sampled	Received	Components/Containers
1601370-01	OW11-MW9-1016		25-Oct-16 10:30	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-02	OW11-MW9P-1016		25-Oct-16 10:35	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-03	OW11-MW8-1016		25-Oct-16 11:20	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-04	OW11-MW1-1016		25-Oct-16 12:25	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-05	OW11-MW7-1016		25-Oct-16 13:20	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-06	OW11-MW5-1016	MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD MS/MSD	25-Oct-16 14:10	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-07	OW11-MW6-1016		26-Oct-16 09:45	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-08	OW11-MW4-1016		26-Oct-16 10:40	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-09	MW-BG13-1016		26-Oct-16 11:35	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-10	MW-BG13P-1016		26-Oct-16 11:40	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1601370-11	MW-BG12-1016		26-Oct-16 13:05	27-Oct-16 08:53	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537			
Matrix: Aqueous		QC Batch: B6K0001		Lab Sample: B6K0001-BLK1					
Sample Size: 0.125 L		Date Extracted: 01-Nov-2016 8:58		Date Analyzed: 01-Nov-16 19:02	Column: BEH C18				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	<4.00	1.79	4.00	8.00		IS 13C3-PFBS	68.2	60 - 150	
PFHpA	<2.00	0.591	2.00	8.00		IS 13C4-PFHpA	74.9	60 - 150	
PFHxS	<2.00	0.947	2.00	8.00		IS 18O2-PFHxS	70.0	60 - 150	
PFOA	0.818	0.651	2.00	8.00	J	IS 13C2-PFOA	60.2	60 - 150	
PFOS	<0.900	0.807	0.900	8.00		IS 13C8-PFOS	74.7	60 - 150	
PFNA	<2.00	0.810	2.00	8.00		IS 13C5-PFNA	68.2	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

LCS Results

Modified EPA Method 537

Matrix: Aqueous Sample Size: 0.125 L	QC Batch: B6K0001 Date Extracted: 01-Nov-2016 8:58	Lab Sample: B6K0001-BS1/B6K0001-BSD1 Date Analyzed: 01-Nov-16 18:12 Column: BEH C18 01-Nov-16 18:24 Column: BEH C18
---	---	---

Analyte	LCS-%R	LCSD-%R	RPD	Labeled Standard	LCS-%R	LCSD-%R
PFBS	92.8	78.3	16.9	IS 13C3-PFBS	90.4	101
PFHpA	98.7	89.5	9.80	IS 13C4-PFHpA	93.4	103
PFHxS	97.3	85.8	12.5	IS 18O2-PFHxS	86.5	95.8
PFOA	104	97.0	7.31	IS 13C2-PFOA	74.2	83.2
PFOS	93.4	73.7	23.5	IS 13C8-PFOS	79.0	101
PFNA	101	91.7	9.58	IS 13C5-PFNA	79.4	88.4

LCL-UCL - Lower control limit - upper control limit

Sample ID: OW11-MW9-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-01	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.126 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 10:30			Date Analyzed:	02-Nov-16 21:48	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	2150	71.3	159.	318	D	IS 13C3-PFBS	82.7	60 - 150	D
PFHpA	4570	23.5	79.4	318	D	IS 13C4-PFHpA	89.4	60 - 150	D
PFHxS	22200	37.7	79.4	318	D	IS 18O2-PFHxS	96.5	60 - 150	D
PFOA	8550	25.9	79.4	318	B, D	IS 13C2-PFOA	113	60 - 150	D
PFOS	101000	32.1	35.7	318	E, D	IS 13C8-PFOS	71.2	60 - 150	D
PFNA	956	32.2	79.4	318	D	IS 13C5-PFNA	73.3	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW9P-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-02	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.124 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 10:35			Date Analyzed:	04-Nov-16 16:13	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	1930	72.4	161.	323	D	IS 13C3-PFBS	86.7	60 - 150	D
PFHpA	3940	23.9	80.6	323	D	IS 13C4-PFHpA	82.8	60 - 150	D
PFHxS	24200	38.3	80.6	323	D	IS 18O2-PFHxS	82.5	60 - 150	D
PFOA	10100	26.3	80.6	323	B, D	IS 13C2-PFOA	101	60 - 150	D
PFOS	74400	32.6	36.3	323	E, D	IS 13C8-PFOS	81.4	60 - 150	D
PFNA	978	32.7	80.6	323	D	IS 13C5-PFNA	78.6	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW8-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-03	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.123 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 11:20			Date Analyzed:	02-Nov-16 00:17	Column:	BEH C18
Location:	OCEANA SITE 11				02-Nov-16 22:49	Column:	BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	1700	36.4	81.3	163	D	IS 13C3-PFBS	87.0	60 - 150	D
PFHpA	2630	12.0	40.7	163	D	IS 13C4-PFHpA	78.6	60 - 150	D
PFHxS	16900	19.3	40.7	163	D	IS 18O2-PFHxS	89.4	60 - 150	D
PFOA	5360	13.2	40.7	163	B, D	IS 13C2-PFOA	88.2	60 - 150	D
PFOS	18800	16.4	18.3	163	D	IS 13C8-PFOS	72.3	60 - 150	D
PFNA	151	0.824	2.03	8.14		IS 13C5-PFNA	75.1	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW1-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-04	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.126 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 12:25			Date Analyzed:	02-Nov-16 23:13	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	1520	71.1	159.	318	D	IS 13C3-PFBS	84.9	60 - 150	D
PFHpA	9820	23.5	79.4	318	D	IS 13C4-PFHpA	81.4	60 - 150	D
PFHxS	30500	37.6	79.4	318	D	IS 18O2-PFHxS	100	60 - 150	D
PFOA	11600	25.8	79.4	318	B, D	IS 13C2-PFOA	114	60 - 150	D
PFOS	213000	32.0	35.7	318	E, D	IS 13C8-PFOS	90.3	60 - 150	D
PFNA	1970	32.2	79.4	318	D	IS 13C5-PFNA	80.7	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW7-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-05	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.124 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 13:20			Date Analyzed:	03-Nov-16 01:40	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	2290	72.1	161.	322	D	IS 13C3-PFBS	88.6	60 - 150	D
PFHpA	10100	23.8	80.6	322	D	IS 13C4-PFHpA	84.3	60 - 150	D
PFHxS	37100	38.1	80.6	322	D	IS 18O2-PFHxS	90.0	60 - 150	D
PFOA	18700	26.2	80.6	322	B, D	IS 13C2-PFOA	94.2	60 - 150	D
PFOS	264000	32.5	36.3	322	E, D	IS 13C8-PFOS	87.5	60 - 150	D
PFNA	2660	32.6	80.6	322	D	IS 13C5-PFNA	68.6	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW5-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-06	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.121 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	25-Oct-2016 14:10			Date Analyzed:	03-Nov-16 02:29	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3330	74.1	165.	331	D	IS 13C3-PFBS	87.8	60 - 150	D
PFHpA	2480	24.5	82.6	331	D	IS 13C4-PFHpA	79.8	60 - 150	D
PFHxS	25500	39.2	82.6	331	D	IS 18O2-PFHxS	104	60 - 150	D
PFOA	4100	26.9	82.6	331	B, D	IS 13C2-PFOA	93.8	60 - 150	D
PFOS	67000	33.4	37.2	331	E, D	IS 13C8-PFOS	77.3	60 - 150	D
PFNA	596	33.5	82.6	331	D	IS 13C5-PFNA	73.1	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Matrix Spike Results

Modified EPA Method 537

Source Client ID: OW11-MW5-1016	QC Batch: B6K0001	Lab Sample: B6K0001-MS1/B6K0001-MSD1
Source LabNumber: 1601370-06	Date Extracted: 01-Nov-2016 8:58	Date Analyzed: 03-Nov-16 00:02 Column: BEH C18
Matrix: Aqueous		03-Nov-16 01:16 Column: BEH C18
Sample Size: 0.125/0.126 L		

Analyte	Spike-MS (ng/L)	MS %R	MS Qual.	Spike-MSD (ng/L)	MSD %R	MSD RPD	MSD Qual.	%R Limit	%RPD Limit	Labeled Standard	MS %R	MS Qualifiers	MSD %R	MS Qual.
PFBS	79.9	557	D, H	79.6	324	52.9	D, H	60 - 130	25	IS 13C3-PFBS	82.5	D	84.8	D
PFHpA	79.9	313	D, H	79.6	741	81.2	D, H	70 - 130	25	IS 13C4-PFHpA	76.2	D	78.5	D
PFHxS	79.9	6520	D, H	79.6	4030	47.2	D, H	70 - 130	25	IS 18O2-PFHxS	81.0	D	95.7	D
PFOA	79.9	663	3, D, F	79.6	565	16.0	3, D, F	70 - 130	25	IS 13C2-PFOA	84.2	D	77.3	D
PFOS	79.9	760	D, H	79.6	7820	165	D, H	70 - 130	25	IS 13C8-PFOS	75.4	D	76.7	D
PFNA	79.9	106	D	79.6	77.7	30.8	D, H	50 - 130	25	IS 13C5-PFNA	71.4	D	69.3	D

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW6-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-07	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.124 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 9:45			Date Analyzed:	03-Nov-16 02:54	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	3580	72.1	161.	322	D	IS 13C3-PFBS	90.9	60 - 150	D
PFHpA	4360	23.8	80.6	322	D	IS 13C4-PFHpA	78.4	60 - 150	D
PFHxS	38900	38.1	80.6	322	D	IS 18O2-PFHxS	90.0	60 - 150	D
PFOA	11300	26.2	80.6	322	B, D	IS 13C2-PFOA	101	60 - 150	D
PFOS	133000	32.5	36.3	322	E, D	IS 13C8-PFOS	71.7	60 - 150	D
PFNA	1080	32.6	80.6	322	D	IS 13C5-PFNA	64.7	50 - 150	D

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OW11-MW4-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-08	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.129 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 10:40			Date Analyzed:	02-Nov-16 13:25	Column:	BEH C18
Location:	OCEANA SITE 11				03-Nov-16 03:43	Column:	BEH C18

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	5270	69.4	155.	310	D	IS 13C3-PFBS	98.2	60 - 150	D
PFHpA	2630	22.9	77.5	310	D	IS 13C4-PFHpA	81.3	60 - 150	D
PFHxS	33100	36.7	77.5	310	D	IS 18O2-PFHxS	94.5	60 - 150	D
PFOA	1540	25.2	77.5	310	B, D	IS 13C2-PFOA	83.1	60 - 150	D
PFOS	44800	31.3	34.9	310	E, D	IS 13C8-PFOS	75.3	60 - 150	D
PFNA	99.5	0.785	1.94	7.75		IS 13C5-PFNA	83.0	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-BG13-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-09	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.122 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 11:35			Date Analyzed:	02-Nov-16 13:38	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	<4.10	1.83	4.10	8.20		IS 13C3-PFBS	80.4	60 - 150	
PFHpA	0.997	0.606	2.05	8.20	J	IS 13C4-PFHpA	93.0	60 - 150	
PFHxS	12.3	0.971	2.05	8.20		IS 18O2-PFHxS	77.8	60 - 150	
PFOA	2.60	0.667	2.05	8.20	J, B	IS 13C2-PFOA	76.9	60 - 150	
PFOS	28.7	0.827	0.922	8.20		IS 13C8-PFOS	85.4	60 - 150	
PFNA	<2.05	0.830	2.05	8.20		IS 13C5-PFNA	77.9	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-BG13P-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-10	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.127 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 11:40			Date Analyzed:	02-Nov-16 13:50	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	<3.94	1.76	3.94	7.89		IS 13C3-PFBS	58.1	60 - 150	H
PFHpA	<1.97	0.583	1.97	7.89		IS 13C4-PFHpA	58.1	60 - 150	H
PFHxS	<1.97	0.934	1.97	7.89		IS 18O2-PFHxS	53.1	60 - 150	H
PFOA	<1.97	0.642	1.97	7.89		IS 13C2-PFOA	49.7	60 - 150	H
PFOS	15.6	0.796	0.886	7.89		IS 13C8-PFOS	62.5	60 - 150	
PFNA	<1.97	0.799	1.97	7.89		IS 13C5-PFNA	50.9	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-BG12-1016**Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1601370-11	Date Received:	27-Oct-2016 8:53
Project:	Oceana PFCs CTO-WE14	Sample Size:	0.126 L	QC Batch:	B6K0001	Date Extracted:	01-Nov-2016 8:58
Date Collected:	26-Oct-2016 13:05			Date Analyzed:	02-Nov-16 14:03	Column:	BEH C18
Location:	OCEANA SITE 11						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	6.95	1.77	3.97	7.92	J	IS 13C3-PFBS	80.5	60 - 150	
PFHpA	2.70	0.585	1.98	7.92	J	IS 13C4-PFHpA	69.5	60 - 150	
PFHxS	79.7	0.938	1.98	7.92		IS 18O2-PFHxS	67.0	60 - 150	
PFOA	10.2	0.645	1.98	7.92	B	IS 13C2-PFOA	62.9	60 - 150	
PFOS	46.5	0.799	0.893	7.92		IS 13C8-PFOS	74.0	60 - 150	
PFNA	1.37	0.802	1.98	7.92	J	IS 13C5-PFNA	66.3	50 - 150	

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The associated compound concentration exceeded the calibration range of the instrument.
H	Recovery and/or RPD was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Reporting Limit/LOQ.
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-004
Pennsylvania Department of Environmental Protection	012
South Carolina Department of Health	87002001
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	7923
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope	EPA 1613B

Dilution GC/HRMS	
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

CHAIN OF CUSTODY

For Laboratory Use Only
 Laboratory Project ID: 1601370 Temp: 1.0 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: CTO-WE14 OCEANA PFC P.O.#: 10006-7-105690 Sampler: R. McELHINNY
 (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Invoice to: Name TIFFANY HILL Company CH2M Address 5701 CLEVELAND ST City VIRGINIA BEACH State VA Ph# 541-768-3109 Fax# _____

Relinquished by (printed name and signature) MARITA CLAY Date 10/26/16 Time 1515 Received by (printed name and signature) B. Benedict Date 10/27/16 Time 0930

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: FEDEX
 ATTN: MARTHA MAIER Tracking No.: _____

Quantity	Type	Matrix	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29	Med. EPA 537	Comments

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378 TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCBs	209 CONGENERS	PBDE	PAH	WHO-29	Med. EPA 537	Comments		
OW11-MW9-1016	10/25	1030	OCEANA SITE 11	2	0	AQ																	2		
OW11-MW9P-1016	10/25	1035	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW8-1016	10/25	1120	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW1-1016	10/25	1225	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW7-1016	10/25	1320	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW5-1016	10/25	1410	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW5-1016-M5	10/25	1410	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW5-1016-SD	10/25	1410	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW6-1016	10/26	0945	OCEANA SITE 11	2	0	AQ																		2	
OW11-MW4-1016	10/26	1040	OCEANA SITE 11	2	0	AQ																		2	

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: TIFFANY HILL
 Company: CH2M
 Address: 5701 CLEVELAND ST
 City: VIRGINIA BEACH State: VA Zip: 23462
 Phone: 541-768-3107 Fax: _____
 Email: TIFFANY.HILL@CH2M.COM

Container Types: A = 1 Liter Amber, G = Glass Jar
 Bottle Preservation Type: T = Thiosulfate,
 P = PUF, T = MM5, O = Other: 125 mL O = Other: _____
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1601370 TAT 14

Samples Arrival:	Date/Time <u>10/27/16 0853</u>	Initials: <u>JBAB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>10/27/16 1405</u>	Initials: <u>JBAB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>A4</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: <u>1.3</u> (uncorrected)	Time: <u>0930</u>	Thermometer ID: IR-1	
Temp °C: <u>1.0</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk # <u>7844 6670 4468</u>	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	Yes	No	(NA)
	Na ₂ S ₂ O ₃	Trizma	
Shipping Container	(Vista)	Client	(Retain)
	Return	Dispose	

Comments: Sample label : OW-MW6-1016
COC id : DW11-MW6-1016

EXTRACTION INFORMATION

Process Sheet
Workorder: 1601370

Prep Expiration: 11/08/2016
 Client: CH2M Hill

Workorder Due: 10-Nov-16 00:00
 TAT: 14

Method: **537 PFAS DOD (LOQ as mRL)**
 Matrix: **Aqueous**

Prep Batch: B6150001

Prep Data Entered: 11/2/14 em
Date and Initials

Version: UCMR 3 (6 Analyte)

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1601370-01	<input type="checkbox"/>	OW11-MW9-1016 <i>OW-11-MW9-1016</i>	27-Oct-16 08:53	WR-2 A-4	
1601370-02	<input type="checkbox"/>	OW11-MW9P-1016 <i>OW-11-MW9P-1016</i>	27-Oct-16 08:53	WR-2 A-4	
1601370-03	<input checked="" type="checkbox"/>	OW11-MW8-1016	27-Oct-16 08:53	WR-2 A-4	
1601370-04	<input checked="" type="checkbox"/>	OW11-MW1-1016	27-Oct-16 08:53	WR-2 A-4	
1601370-05	<input checked="" type="checkbox"/>	OW11-MW7-1016	27-Oct-16 08:53	WR-2 A-4	
1601370-06	<input checked="" type="checkbox"/>	OW11-MW5-1016	27-Oct-16 08:53	WR-2 A-4	MS/MSD
1601370-07	<input type="checkbox"/>	OW11-MW6-1016 <i>OW-MW6-1016</i>	27-Oct-16 08:53	WR-2 A-4	
1601370-08	<input checked="" type="checkbox"/>	OW11-MW4-1016	27-Oct-16 08:53	WR-2 A-4	
1601370-09	<input checked="" type="checkbox"/>	MW-BG13-1016	27-Oct-16 08:53	WR-2 A-4	
1601370-10	<input checked="" type="checkbox"/>	MW-BG13P-1016	27-Oct-16 08:53	WR-2 A-4	
1601370-11	<input checked="" type="checkbox"/>	MW-BG12-1016	27-Oct-16 08:53	WR-2 A-4	

WO Comments: List of 6, include Total PFOA.

Vista PM:Martha Maier

Vial Box ID: Space Rabies

Sample Reconciled By: *[Signature]* 11/1/14
 Page 1 of 1

Percent Solids



Project: B6K0001

Balance ID: HRMS9

Sample ID	Chemist: <u>NA</u>		Chemist: <u>NA</u>		Chemist/Date	
	Date: <u>J</u>		Date: <u>J</u>		JS 11/1/14	
	Boat Wt.	Sample + Boat Wt.	Residue + Boat Wt.	pH before	pH after	Cl
1601338 - 02 (A)				5	2	0
↓ - 04 ↓				5	2	0
1601370 - 01				6	2	0
↓ - 02 (B)				7	2	0
↓ - 03 (B)				7	2	0
↓ - 04 (A)				5	2	0
↓ - 05				6	2	0
↓ - 06 "A"				6	2	0
↓ - 06 "B"				6	2	0
↓ - 06 "C"				6	2	0
↓ - 07 (B)				7	2	0
↓ - 08 (A)				6	2	0
↓ - 09				5	2	0
↓ - 10				5	2	0
↓ - 11 ↓				5	2	0

Procedure:

- Tare the balance.
- Record Boat Weight.
- Add 2 - 10 g of sample.
- Record Wet Wt. + Boat Wt.
- Dry in oven overnight at 107°C.
- Tare the balance.
- Record Residue + Boat Wt.

Notes:

(A) 2 drops HCl used to adjust pH JS 11/1/14
 (B) 3 drops HCl used to adjust pH JS 11/1/14

- Methods 8280, 613, 1613, 8290, 1614 - pH < 9
- Methods 1668/PCN - pH 2-3
- NCASI 551 - pH 1

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS DOD (LOO as mL)

B6K0001

Chemist: G. Mendida

Prep Date/Time: 01-Nov-16 08:58

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	<u>B6K0003</u> SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B6K0001-BLK1	NA	NA	(0.125)	on 35 11/11/16	35 11/1/14	on 35 11/1/14
<input type="checkbox"/>	B6K0001-BS1	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B6K0001-BSD1	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B6K0001-MS1 1601370-06 (A)	152.59	27.46	0.12513	↓	↓	↓
<input type="checkbox"/>	B6K0001-MSD1 1601370-06 (A)	153.09	27.47	0.12562	↓	↓	↓
<input type="checkbox"/>	1601338-02 <u>35 11/1/14</u>	159.27	27.55	0.13172	↓	↓	↓
<input type="checkbox"/>	1601338-04	157.04	27.49	0.12955	↓	↓	↓
<input type="checkbox"/>	1601370-01 (A)	153.06	27.45	0.12561	↓	↓	↓
<input type="checkbox"/>	1601370-02 (A)	151.06	27.36	0.1237	↓	↓	↓
<input type="checkbox"/>	1601370-03 (A)	150.45	27.53	0.12292	↓	↓	↓
<input type="checkbox"/>	1601370-04 (A)	153.33	27.37	0.12596	↓	↓	↓
<input type="checkbox"/>	1601370-05 (A)	151.64	27.51	0.12413	↓	↓	↓
<input type="checkbox"/>	1601370-06 (A)	148.30	27.48	0.12082	↓	↓	↓
<input type="checkbox"/>	1601370-07 (A)	151.64	27.46	0.1242	↓	↓	↓
<input type="checkbox"/>	1601370-08 (A)	156.58	27.53	0.12905	↓	↓	↓
<input type="checkbox"/>	1601370-09	149.48	27.52	0.12196	↓	↓	↓

IS Name <u>U5</u> W6I2604, 10ul	NS Name <u>U2</u> W6I1602, 10ul	RS Name <u>U3</u> W6I2603, 10ul	SPE Chem: <u>Strata XAW 33um 200mg/6ml</u> Ele SOLV: <u>MeOH + 0.5% NH4OH in MeOH</u> Final Volume(s) <u>1ml</u>	Check Out: Chemist/Date: <u>JS 11/1/10</u> Check In: Chemist/Date: <u>NA</u> Balance ID: <u>HRMS9</u>
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Comments: Assume 1 g = 1 mL (A) Sample contained particulate transferred to secondary container and then centrifuged then decanted back into original container. JS 11/1/14

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537 PFAS DOD (LOO as mRL)

B6K0001

Chemist: G. Mendiola

Prep Date/Time: 01-Nov-16 08:58

Prepared using: LCMS - SPE Extraction-LCMS

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CG6K0013 SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	1601370-10	154.25	27.45	0.1268	DM 35 11/1/16	35 11/1/16	DM 35 11/1/16
<input type="checkbox"/>	1601370-11 11	153.74	27.50	0.12624	<u>DM 35</u> ↓	↓	↓

IS Name 15 16I2604, 10ul	NS Name 12 16I1601, 10ul	RS Name 13 16I2603, 10ul	SPE Chem: Strata XAW 33mm 200mg/Leak Ele SOLV: MeOH + 0.5% NH4OH in MeOH Final Volume(s) 1ml	Check Out: Chemist/Date: 35 11/1/16 Check In: Chemist/Date: NA Balance ID: HRMS9
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Comments: Assume 1 g = 1 mL

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-25.qld

Last Altered: Wednesday, November 02, 2016 13:46:07 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 13:46:36 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: B6K0001-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161101G1_25, Date: 01-Nov-2016, Time: 19:02:36

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7		3.451e3		0.125			
2	5 PFHpA	363 > 318.9	2.388e1	1.141e4		0.125	3.85	0.317	
3	6 PFHxS	398.9 > 79.6	1.452e1	3.248e3		0.125	3.97	0.406	
4	8 PFOA	413 > 368.7	1.323e2	1.532e4		0.125	4.27	0.818	
5	9 PFOS	499 > 79.9		3.146e3		0.125			
6	10 PFNA	463 > 418.8		6.162e3		0.125			
7	15 13C3-PFBS	302.0 > 98.8	3.451e3	2.428e4	0.209	0.125	2.99	68.2	68.2
8	16 13C2-PFHxA	315 > 269.8	4.375e3	2.428e4	0.655	0.125	3.35	27.5	68.8
9	17 13C4-PFHpA	367.2 > 321.8	1.141e4	8.008e3	1.904	0.125	3.85	74.9	74.9
10	18 18O2-PFHxS	403 > 102.6	3.248e3	8.008e3	0.580	0.125	3.97	70.0	70.0
11	19 13C2-6:2 FTS	429.1 > 408.9	1.302e3	3.783e3	0.896	0.125	4.22	38.4	38.4
12	20 13C2-PFOA	414.9 > 369.7	1.532e4	1.093e4	2.326	0.125	4.27	60.2	60.2
13	21 13C8-PFOS	507.0 > 79.9	3.146e3	4.286e3	0.982	0.125	4.67	74.7	74.7
14	22 13C5-PFNA	468.2 > 422.9	6.162e3	8.712e3	1.038	0.125	4.61	68.2	68.2
15	27 13C5-PFHxA	318.0 > 272.9	2.428e4	2.428e4	1.000	0.125	3.34	100	100
16	28 13C3-PFHxS	401.9 > 79.9	8.008e3	8.008e3	1.000	0.125	3.97	100	100
17	29 13C8-PFOA	421.3 > 376	1.093e4	1.093e4	1.000	0.125	4.27	100	100
18	30 13C4-PFOS	503.0 > 79.9	4.286e3	4.286e3	1.000	0.125	4.67	100	100
19	31 13C9-PFNA	472.2 > 426.9	8.712e3	8.712e3	1.000	0.125	4.61	100	100
20	32 13C6-PFDA	519.1 > 473.7	8.765e3	8.765e3	1.000	0.125	4.90	100	100
21	33 Total PFBS	299 > 79.7		3.248e3		0.125			
22	34 Total PFHxS	398.9 > 79.6		3.248e3		0.125		0.406	
23	35 Total PFOA	413 > 368.7		1.532e4		0.125		0.818	
24	36 Total PFOS	499 > 79.9		3.146e3		0.125			

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-25.qld

Last Altered: Wednesday, November 02, 2016 13:46:07 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 13:46:36 Pacific Daylight Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: B6K0001-BLK1 Method Blank 0.125, Description: Method Blank, Name: 161101G1_25, Date: 01-Nov-2016, Time: 19:02:36

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6	3.97	14.519	3247.963	0.4

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7	4.27	132.278	15316.578	0.8

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

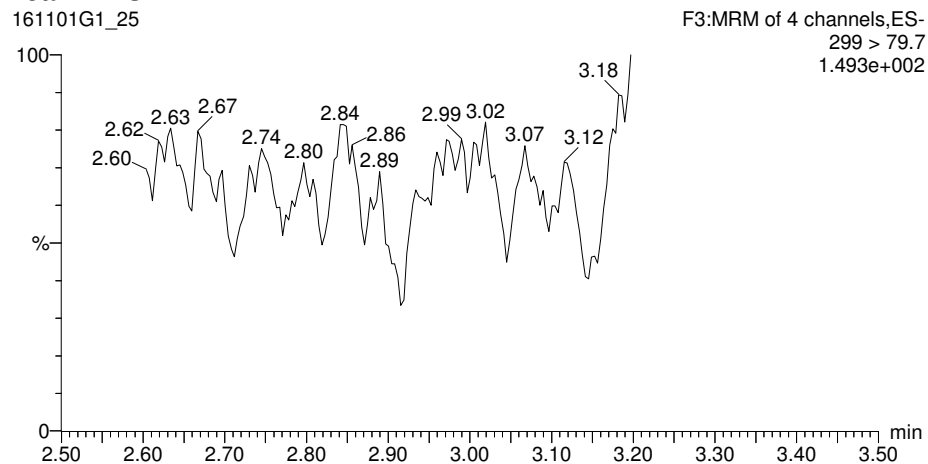
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Printed: Wednesday, November 02, 2016 13:46:36 Pacific Daylight Time

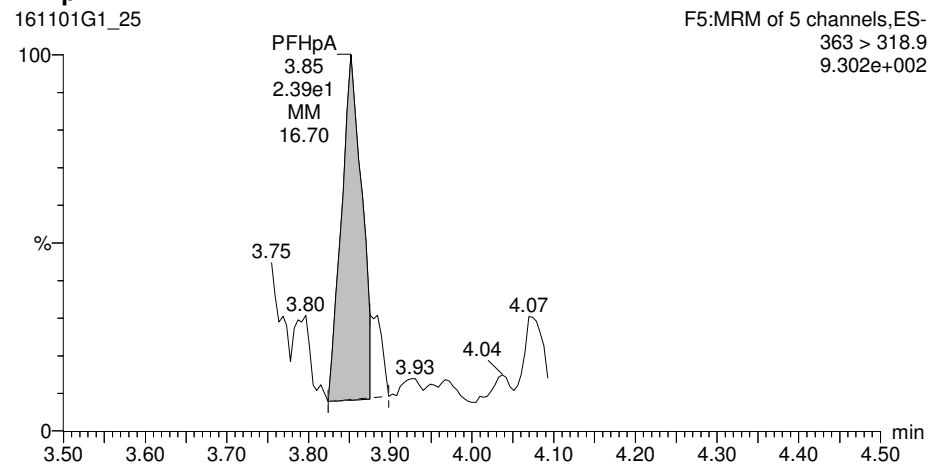
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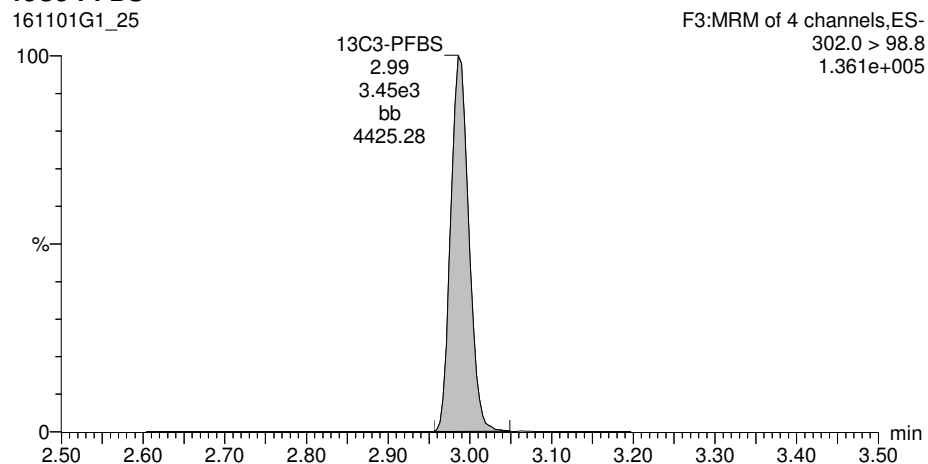
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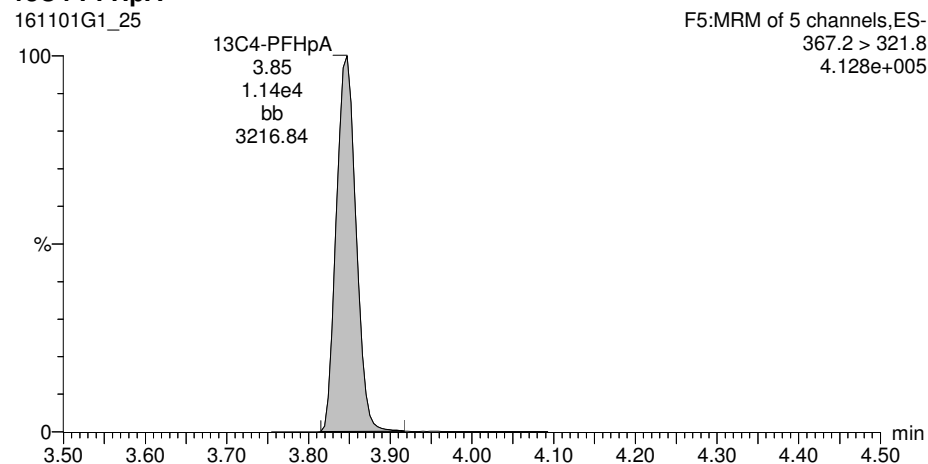
PFHpA



13C3-PFBS



13C4-PFHpA

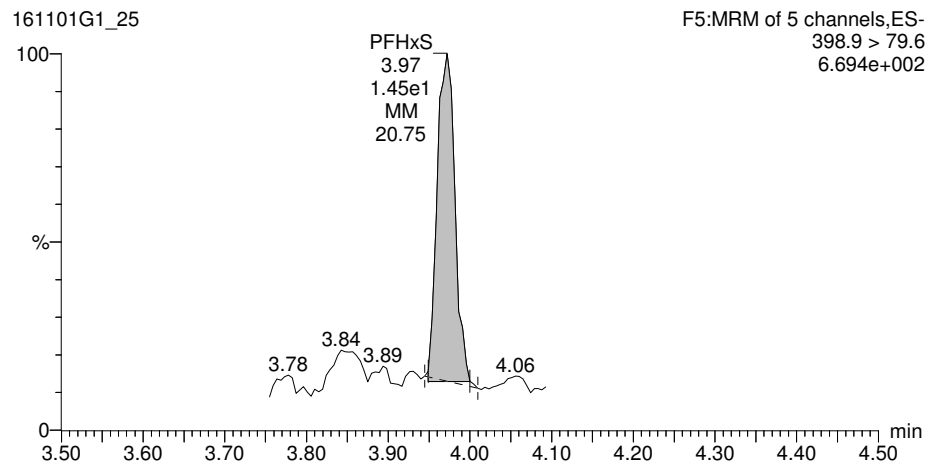


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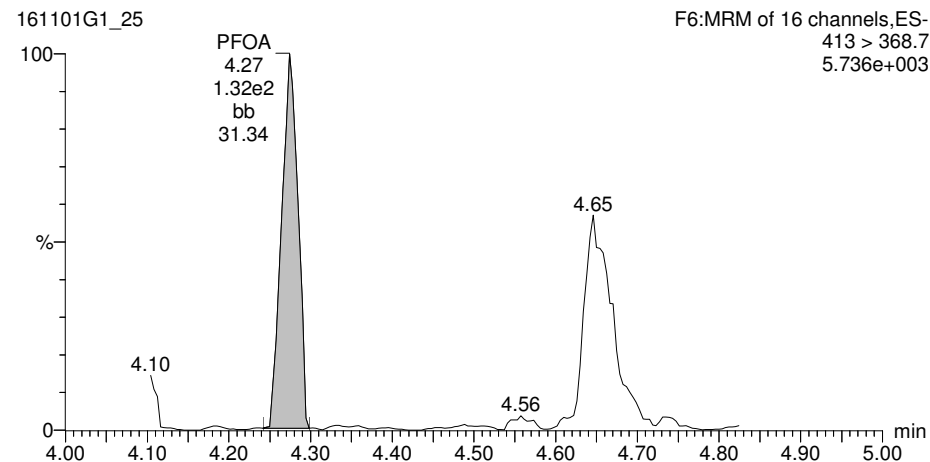
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Printed: Wednesday, November 02, 2016 13:46:36 Pacific Daylight Time

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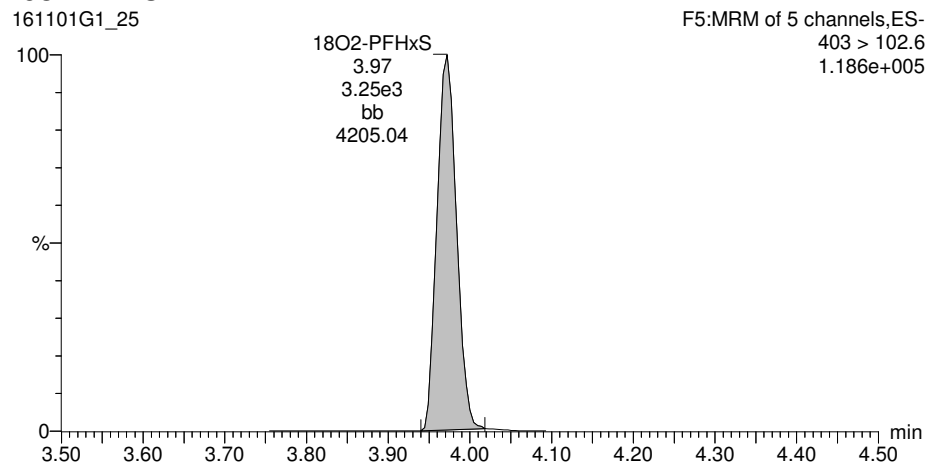
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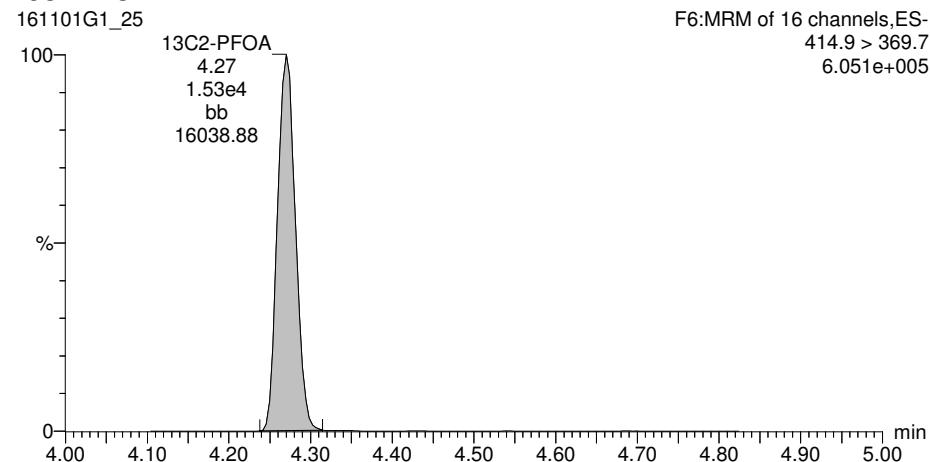
Total PFOA



18O2-PFHxS



13C2-PFOA

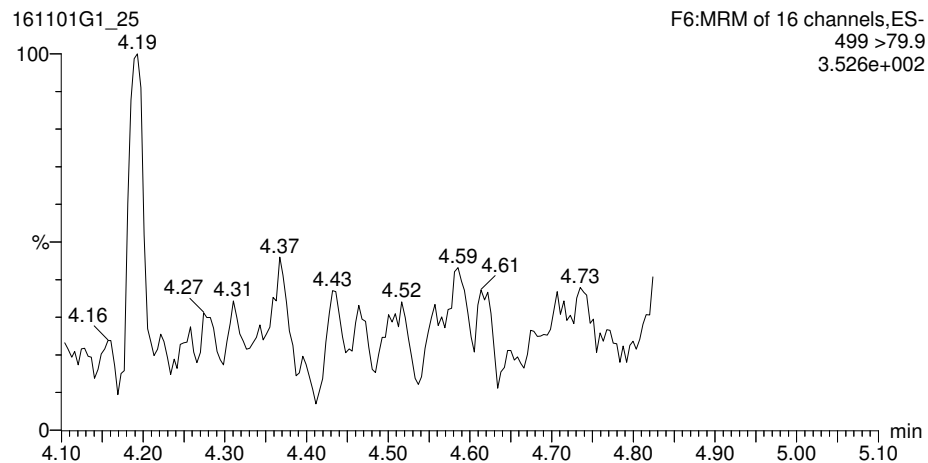


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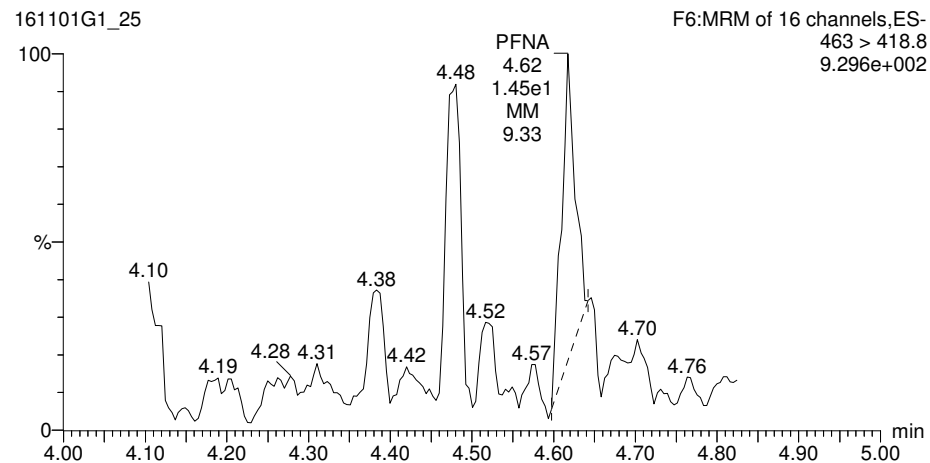
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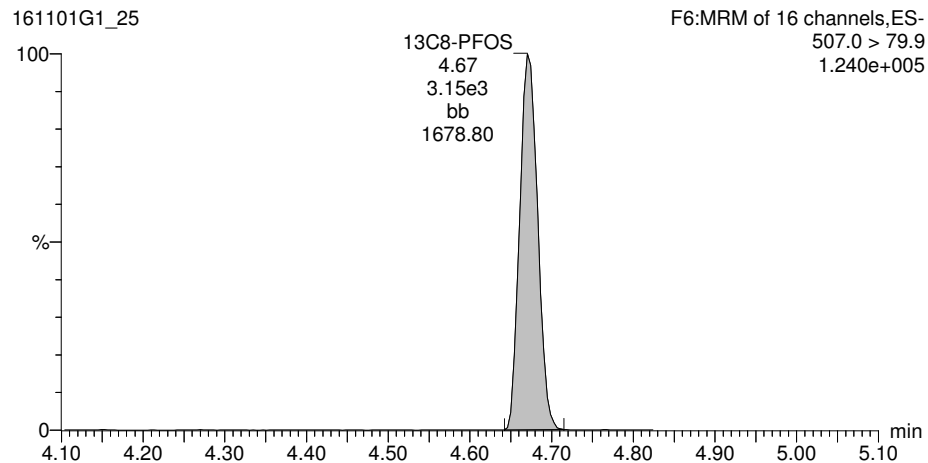
Total PFOS



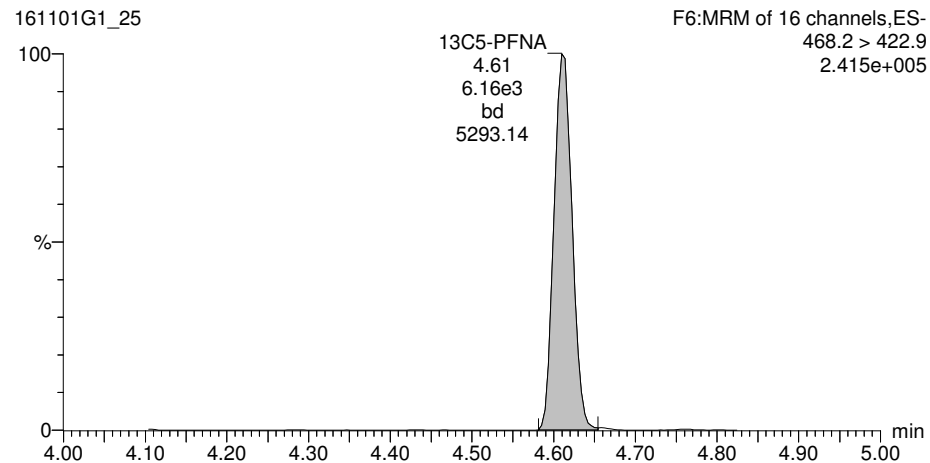
PFNA



13C8-PFOS



13C5-PFNA

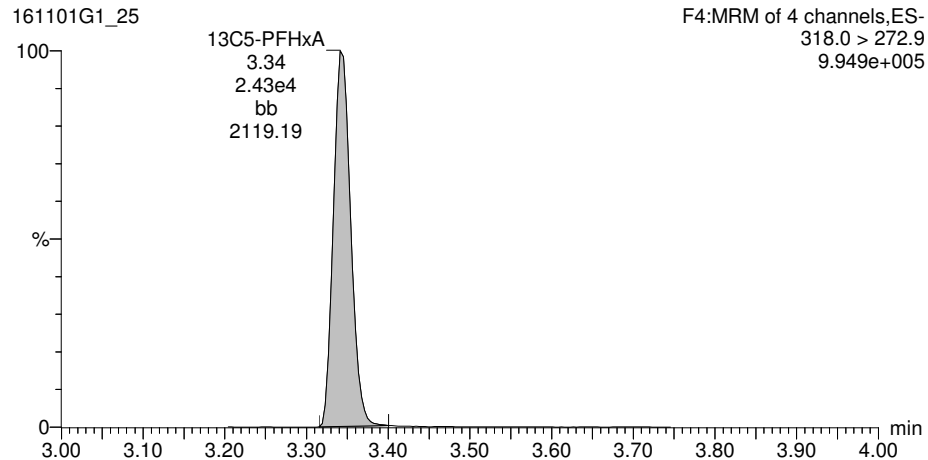


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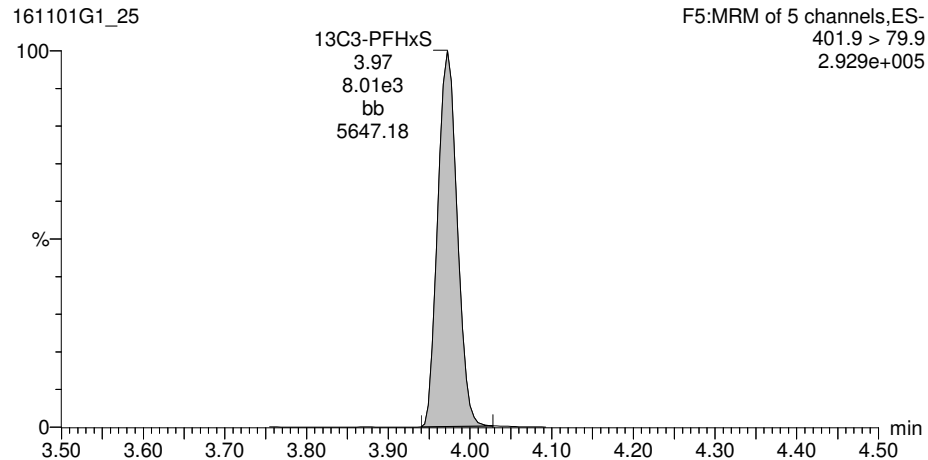
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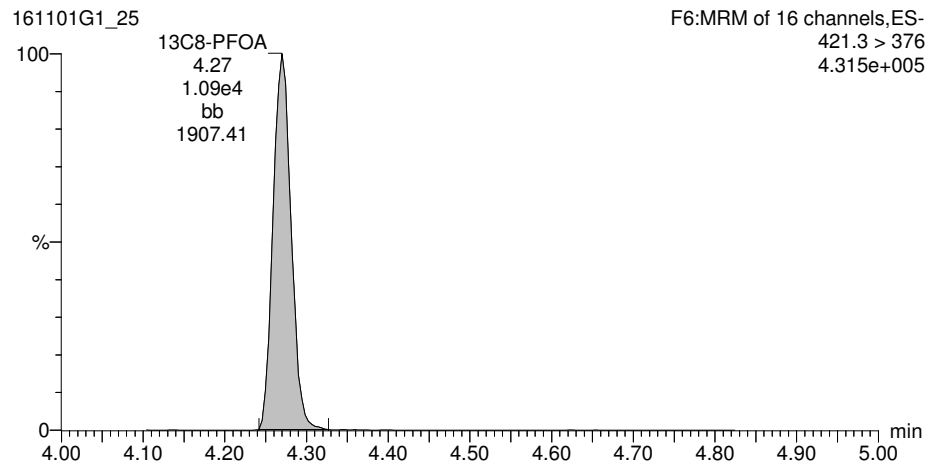
13C5-PFHxA



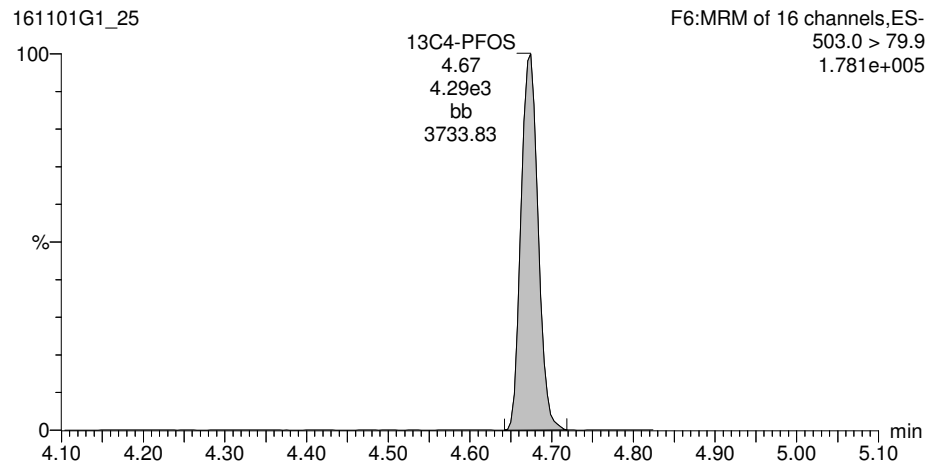
13C3-PFHxS



13C8-PFOA



13C4-PFOS



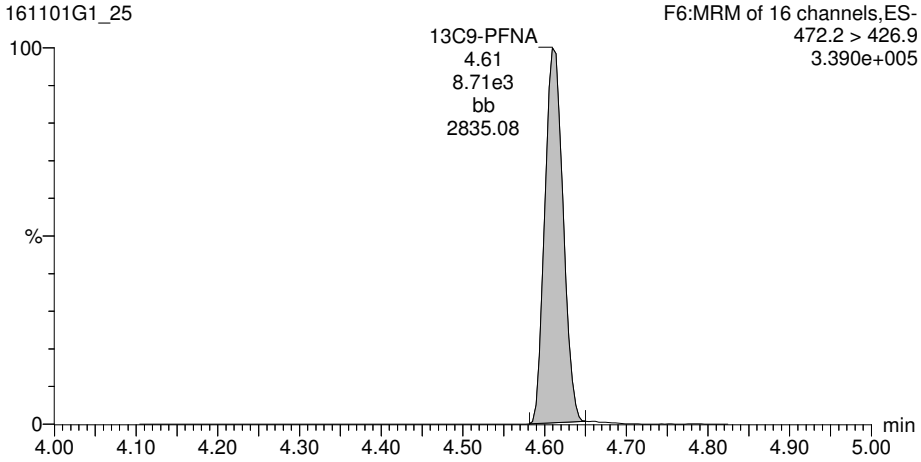
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13C9-PFNA

161101G1_25



Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-21.qld

Last Altered: Wednesday, November 02, 2016 13:42:43 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 13:43:03 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: B6K0001-BS1 OPR 0.125, Description: OPR, Name: 161101G1_21, Date: 01-Nov-2016, Time: 18:12:07

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	4.661e3	4.570e3		0.125	2.99	74.2	
2	5 PFHpA	363 > 318.9	1.547e4	1.385e4		0.125	3.85	78.9	
3	6 PFHxS	398.9 > 79.6	4.467e3	3.901e3		0.125	3.97	77.8	
4	8 PFOA	413 > 368.7	1.441e4	1.894e4		0.125	4.27	83.5	
5	9 PFOS	499 > 79.9	2.386e3	3.735e3		0.125	4.67	74.7	
6	10 PFNA	463 > 418.8	1.099e4	7.463e3		0.125	4.61	80.8	
7	15 13C3-PFBS	302.0 > 98.8	4.570e3	2.424e4	0.209	0.125	2.99	90.4	90.4
8	16 13C2-PFHxA	315 > 269.8	5.384e3	2.424e4	0.655	0.125	3.35	33.9	84.7
9	17 13C4-PFHpA	367.2 > 321.8	1.385e4	7.784e3	1.904	0.125	3.85	93.4	93.4
10	18 18O2-PFHxS	403 > 102.6	3.901e3	7.784e3	0.580	0.125	3.97	86.5	86.5
11	19 13C2-6:2 FTS	429.1 > 408.9	2.186e3	3.950e3	0.896	0.125	4.22	61.8	61.8
12	20 13C2-PFOA	414.9 > 369.7	1.894e4	1.097e4	2.326	0.125	4.27	74.2	74.2
13	21 13C8-PFOS	507.0 > 79.9	3.735e3	4.814e3	0.982	0.125	4.67	79.0	79.0
14	22 13C5-PFNA	468.2 > 422.9	7.463e3	9.059e3	1.038	0.125	4.61	79.4	79.4
15	27 13C5-PFHxA	318.0 > 272.9	2.424e4	2.424e4	1.000	0.125	3.34	100	100
16	28 13C3-PFHxS	401.9 > 79.9	7.784e3	7.784e3	1.000	0.125	3.97	100	100
17	29 13C8-PFOA	421.3 > 376	1.097e4	1.097e4	1.000	0.125	4.27	100	100
18	30 13C4-PFOS	503.0 > 79.9	4.814e3	4.814e3	1.000	0.125	4.67	100	100
19	31 13C9-PFNA	472.2 > 426.9	9.059e3	9.059e3	1.000	0.125	4.61	100	100
20	32 13C6-PFDA	519.1 > 473.7	9.108e3	9.108e3	1.000	0.125	4.90	100	100
21	33 Total PFBS	299 > 79.7		3.901e3		0.125		74.2	
22	34 Total PFHxS	398.9 > 79.6		3.901e3		0.125		77.8	
23	35 Total PFOA	413 > 368.7		1.894e4		0.125		83.5	
24	36 Total PFOS	499 > 79.9		3.735e3		0.125		74.7	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-21.qld

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Printed: Wednesday, November 02, 2016 13:43:03 Pacific Daylight Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: B6K0001-BS1 OPR 0.125, Description: OPR, Name: 161101G1_21, Date: 01-Nov-2016, Time: 18:12:07

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	299 > 79.7	2.99	4660.603	4569.615	74.2

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6	3.97	4466.693	3901.108	77.8

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7	4.27	14410.310	18939.418	83.5

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	9 PFOS	499 > 79.9	4.67	2386.478	3735.324	74.7

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-21.qld

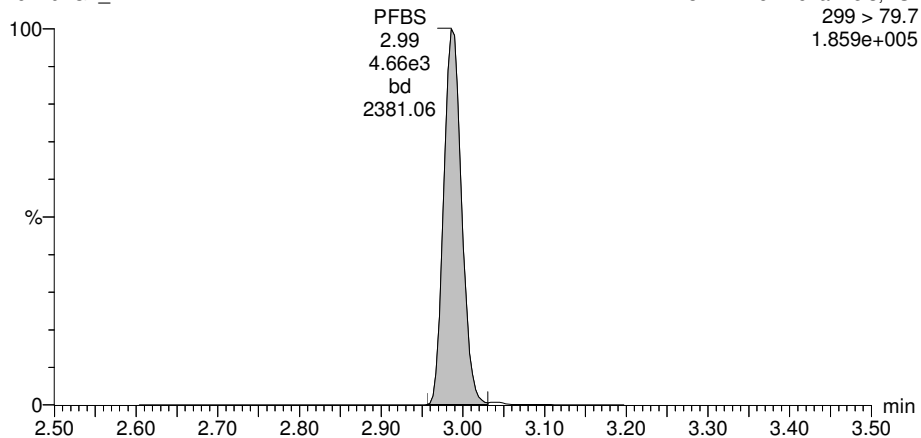
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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

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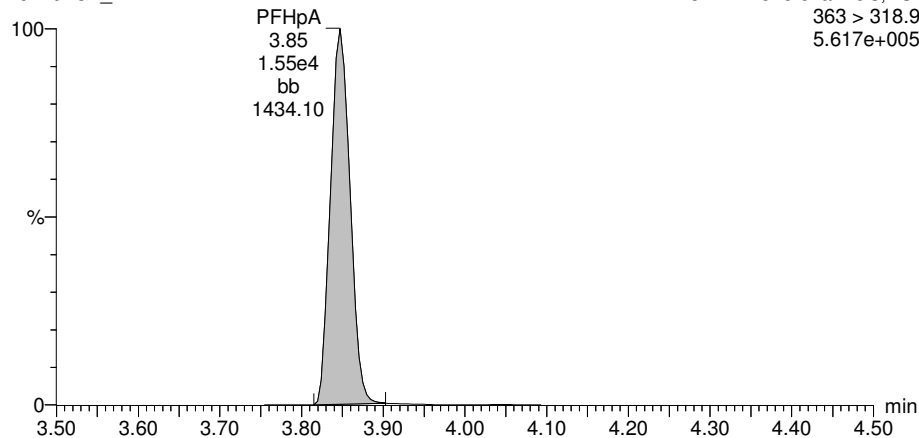
Total PFBS

161101G1_21



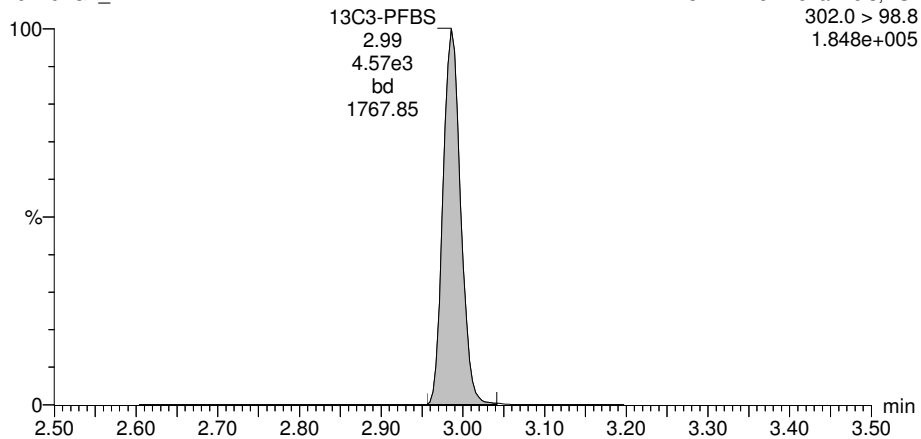
PFHpA

161101G1_21



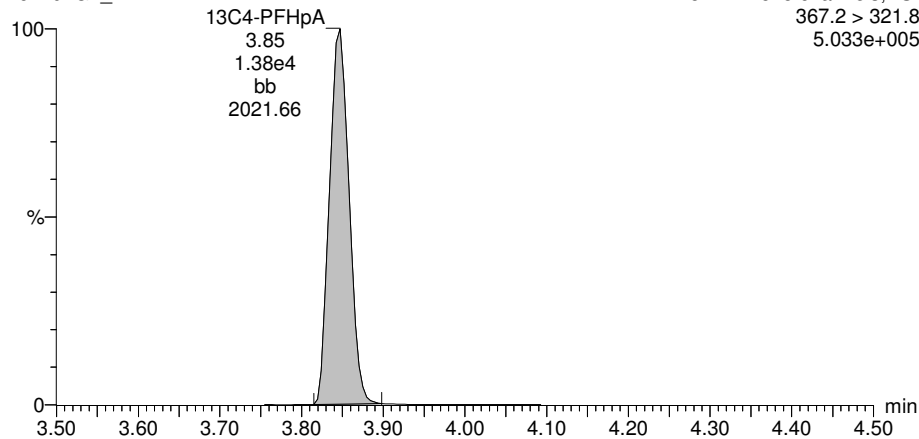
13C3-PFBS

161101G1_21



13C4-PFHpA

161101G1_21

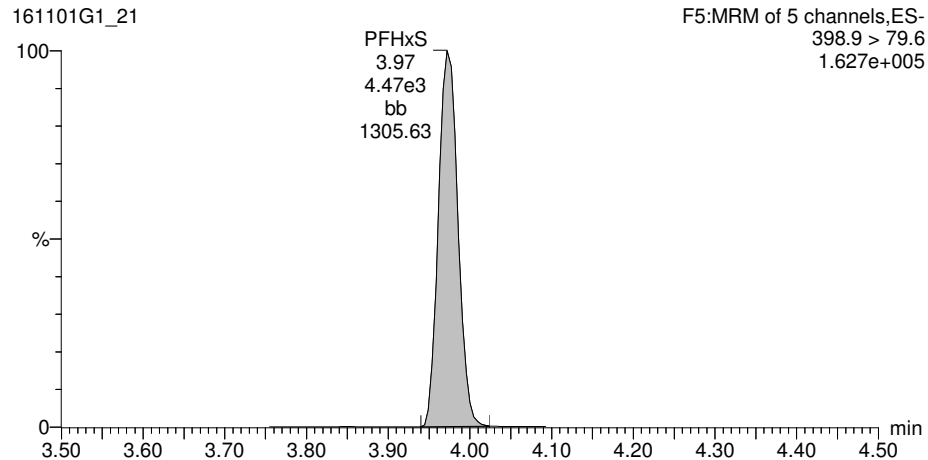


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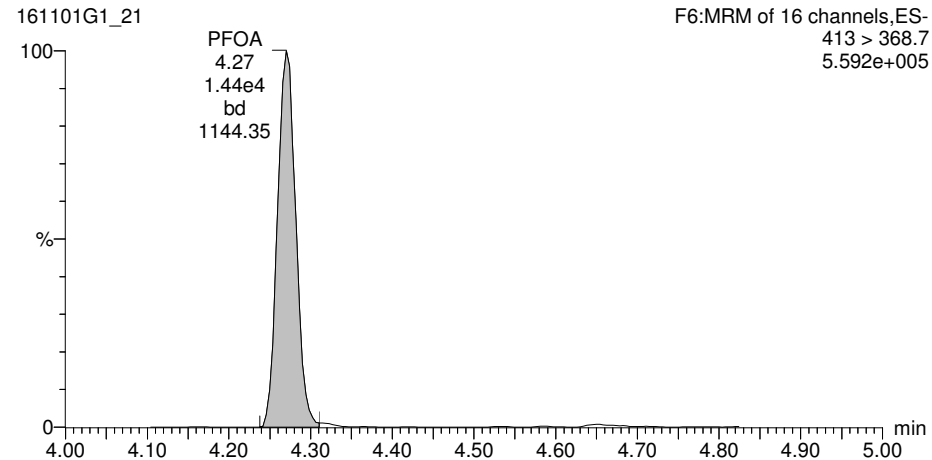
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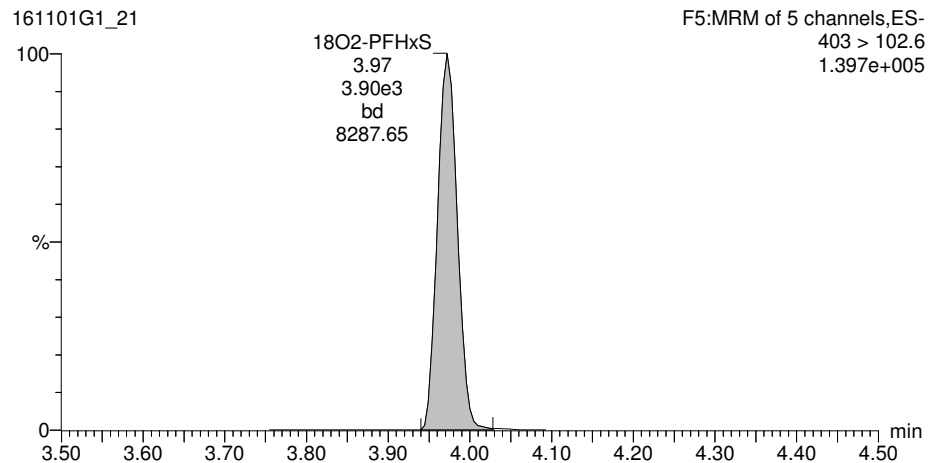
Total PFHxS



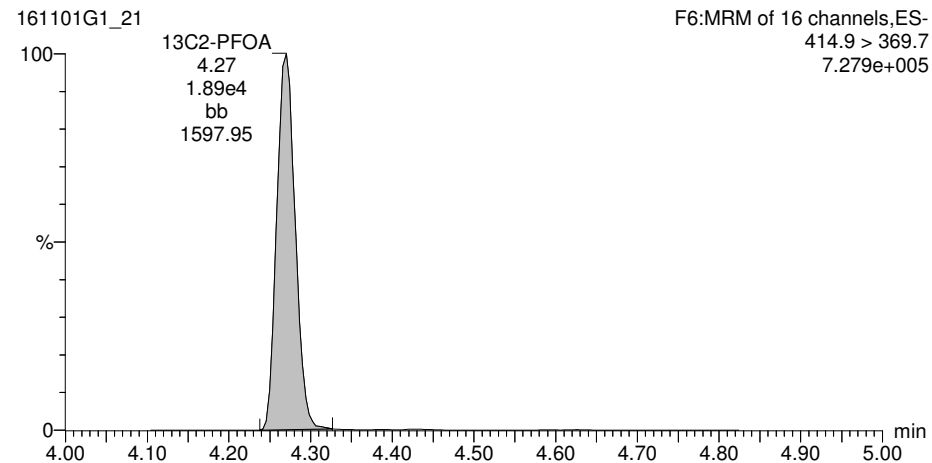
Total PFOA



18O2-PFHxS



13C2-PFOA

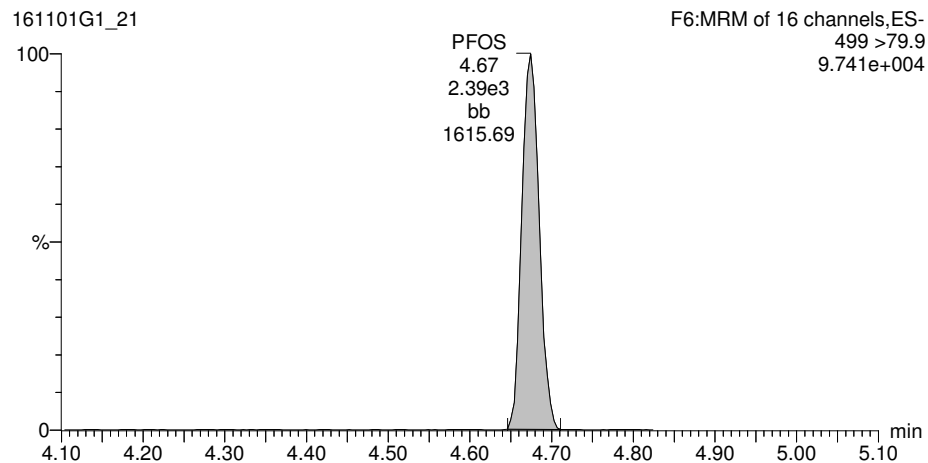


Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-21.qld

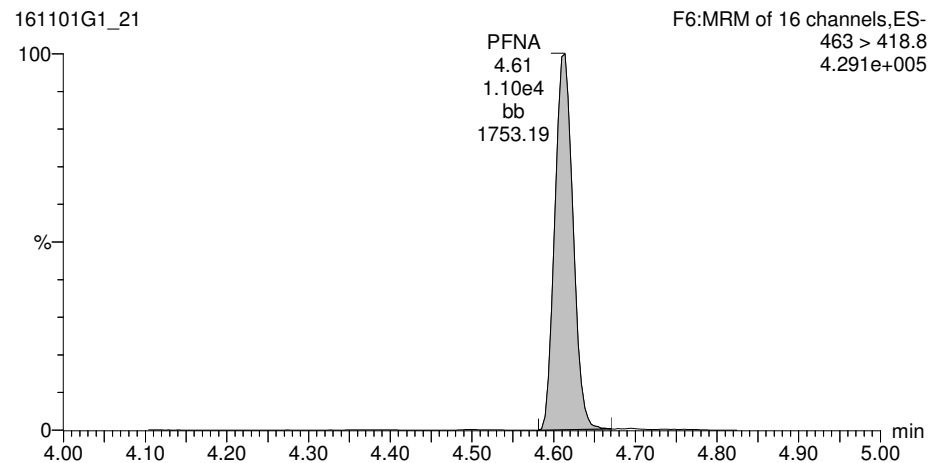
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Printed: Wednesday, November 02, 2016 13:43:03 Pacific Daylight Time

ID: B6K0001-BS1 OPR 0.125, Description: OPR, Name: 161101G1_21, Date: 01-Nov-2016, Time: 18:12:07, Instrument: , Lab: , User:

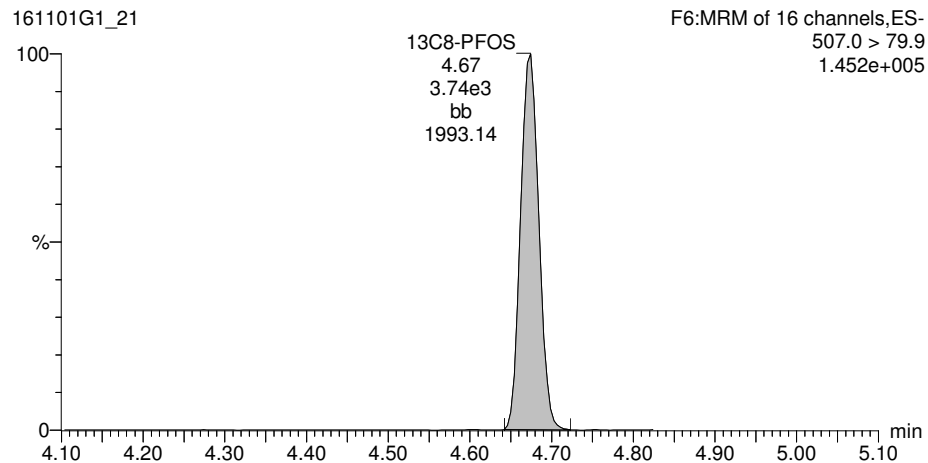
Total PFOS



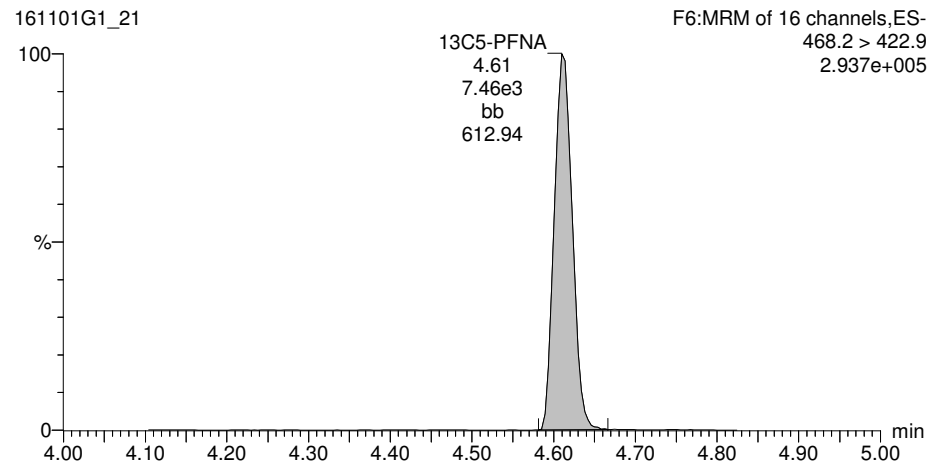
PFNA



13C8-PFOS



13C5-PFNA

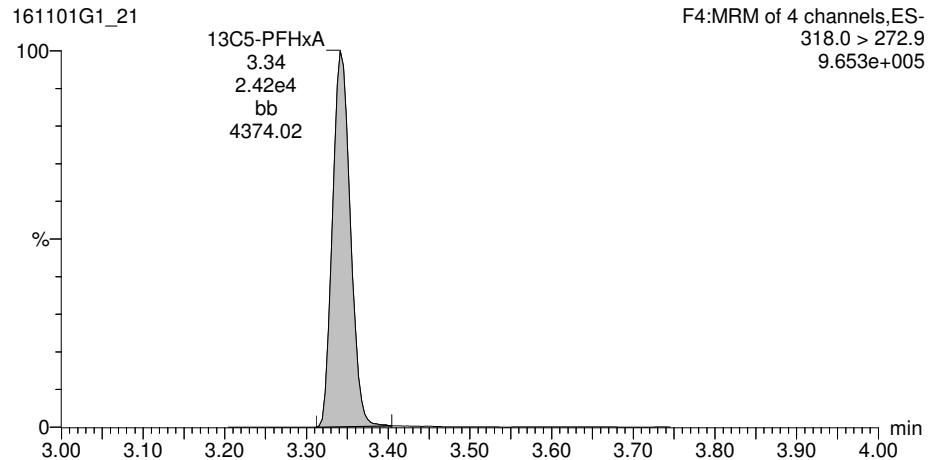


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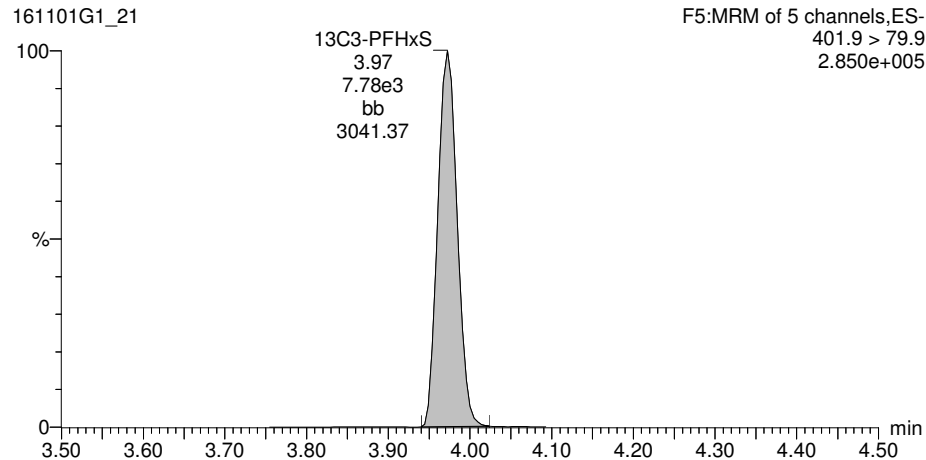
Last Altered: Wednesday, November 02, 2016 13:42:43 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 13:43:03 Pacific Daylight Time

ID: B6K0001-BS1 OPR 0.125, Description: OPR, Name: 161101G1_21, Date: 01-Nov-2016, Time: 18:12:07, Instrument: , Lab: , User:

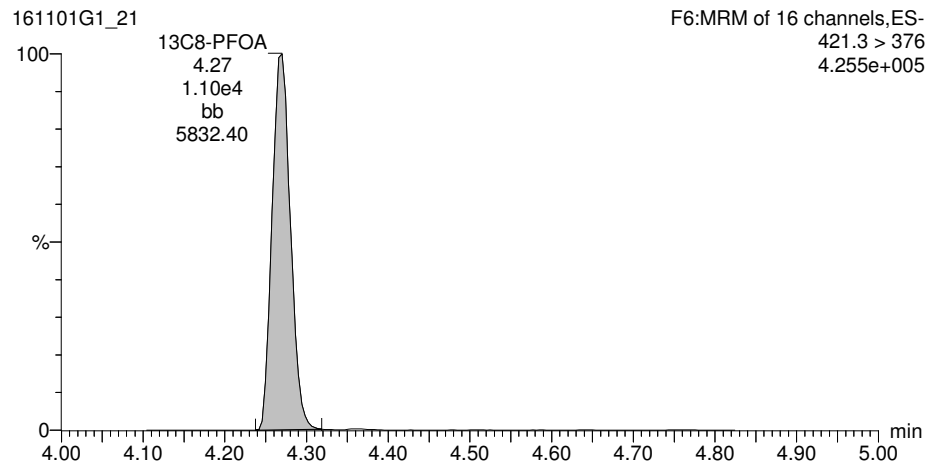
13C5-PFHxA



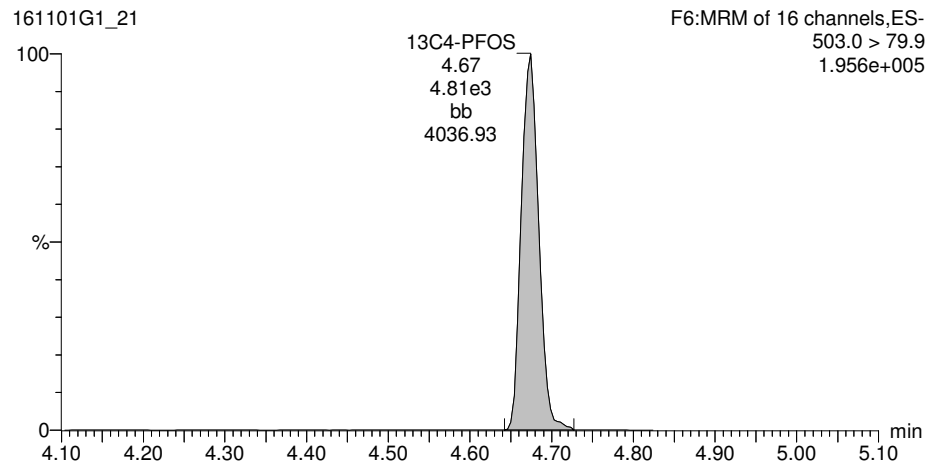
13C3-PFHxS



13C8-PFOA



13C4-PFOS



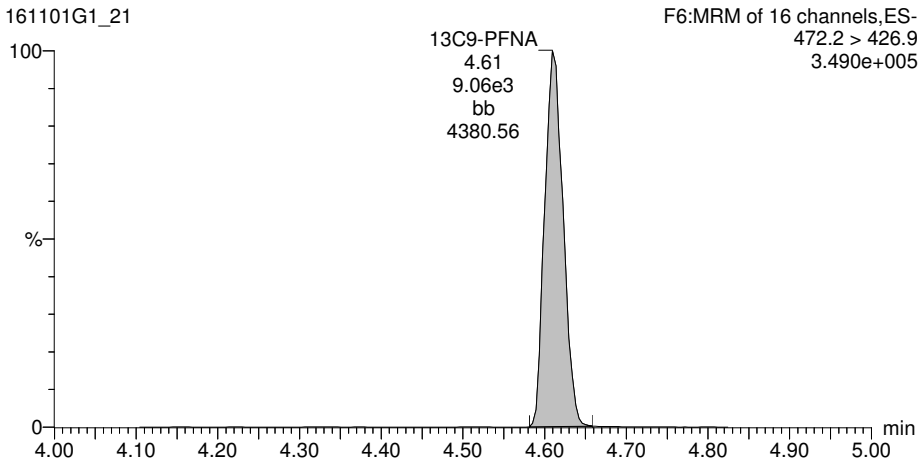
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Printed: Wednesday, November 02, 2016 13:43:03 Pacific Daylight Time

ID: B6K0001-BS1 OPR 0.125, Description: OPR, Name: 161101G1_21, Date: 01-Nov-2016, Time: 18:12:07, Instrument: , Lab: , User:

13C9-PFNA

161101G1_21



Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-22.qld

Last Altered: Wednesday, November 02, 2016 13:44:20 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 13:44:49 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: B6K0001-BSD1 LCS Dup 0.125, Description: LCS Dup, Name: 161101G1_22, Date: 01-Nov-2016, Time: 18:24:45

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	4.499e3	5.234e3		0.125	2.99	62.6	
2	5 PFHpA	363 > 318.9	1.581e4	1.562e4		0.125	3.85	71.6	
3	6 PFHxS	398.9 > 79.6	4.446e3	4.402e3		0.125	3.97	68.7	
4	8 PFOA	413 > 368.7	1.494e4	2.112e4		0.125	4.27	77.6	
5	9 PFOS	499 > 79.9	2.211e3	4.388e3		0.125	4.67	59.0	
6	10 PFNA	463 > 418.8	1.057e4	7.898e3		0.125	4.61	73.4	
7	15 13C3-PFBS	302.0 > 98.8	5.234e3	2.494e4	0.209	0.125	2.99	101	101
8	16 13C2-PFHxA	315 > 269.8	6.114e3	2.494e4	0.655	0.125	3.34	37.4	93.5
9	17 13C4-PFHpA	367.2 > 321.8	1.562e4	7.930e3	1.904	0.125	3.84	103	103
10	18 18O2-PFHxS	403 > 102.6	4.402e3	7.930e3	0.580	0.125	3.97	95.8	95.8
11	19 13C2-6:2 FTS	429.1 > 408.9	2.296e3	4.067e3	0.896	0.125	4.22	63.0	63.0
12	20 13C2-PFOA	414.9 > 369.7	2.112e4	1.092e4	2.326	0.125	4.27	83.2	83.2
13	21 13C8-PFOS	507.0 > 79.9	4.388e3	4.444e3	0.982	0.125	4.67	101	101
14	22 13C5-PFNA	468.2 > 422.9	7.898e3	8.613e3	1.038	0.125	4.61	88.4	88.4
15	27 13C5-PFHxA	318.0 > 272.9	2.494e4	2.494e4	1.000	0.125	3.34	100	100
16	28 13C3-PFHxS	401.9 > 79.9	7.930e3	7.930e3	1.000	0.125	3.97	100	100
17	29 13C8-PFOA	421.3 > 376	1.092e4	1.092e4	1.000	0.125	4.27	100	100
18	30 13C4-PFOS	503.0 > 79.9	4.444e3	4.444e3	1.000	0.125	4.67	100	100
19	31 13C9-PFNA	472.2 > 426.9	8.613e3	8.613e3	1.000	0.125	4.61	100	100
20	32 13C6-PFDA	519.1 > 473.7	9.221e3	9.221e3	1.000	0.125	4.90	100	100
21	33 Total PFBS	299 > 79.7		4.402e3		0.125		62.6	
22	34 Total PFHxS	398.9 > 79.6		4.402e3		0.125		68.7	
23	35 Total PFOA	413 > 368.7		2.112e4		0.125		77.6	
24	36 Total PFOS	499 > 79.9		4.388e3		0.125		59.0	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-22.qld

Last Altered: Wednesday, November 02, 2016 13:44:20 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 13:44:49 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: B6K0001-BSD1 LCS Dup 0.125, Description: LCS Dup, Name: 161101G1_22, Date: 01-Nov-2016, Time: 18:24:45

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	299 > 79.7	2.99	4498.887	5234.399	62.6

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6	3.97	4445.566	4401.897	68.7

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7	4.27	14941.386	21124.529	77.6

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	9 PFOS	499 > 79.9	4.67	2211.065	4388.146	59.0

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-22.qld

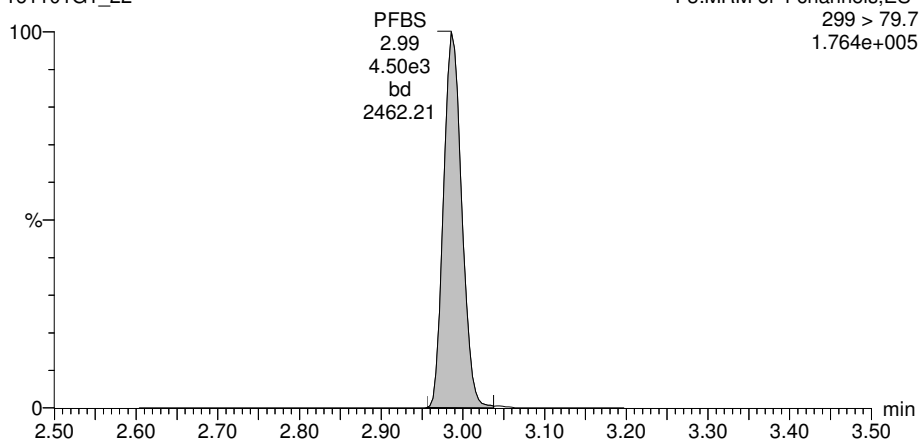
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Printed: Wednesday, November 02, 2016 13:44:49 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: B6K0001-BSD1 LCS Dup 0.125, Description: LCS Dup, Name: 161101G1_22, Date: 01-Nov-2016, Time: 18:24:45, Instrument: , Lab: , User:

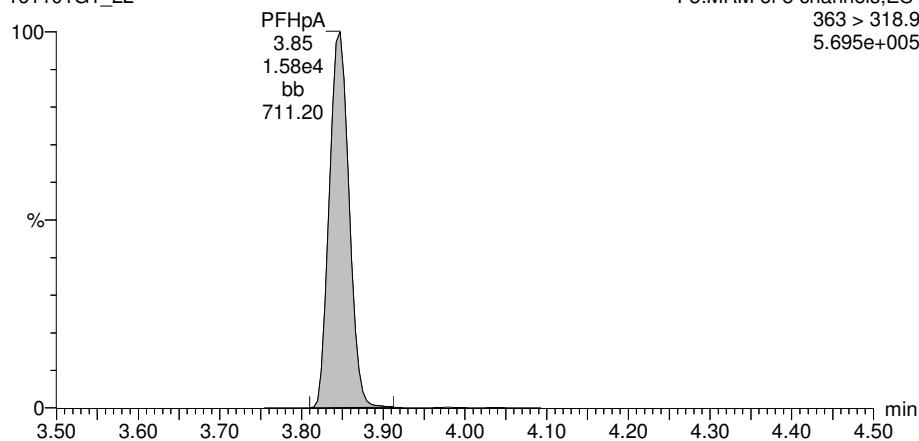
Total PFBS

161101G1_22



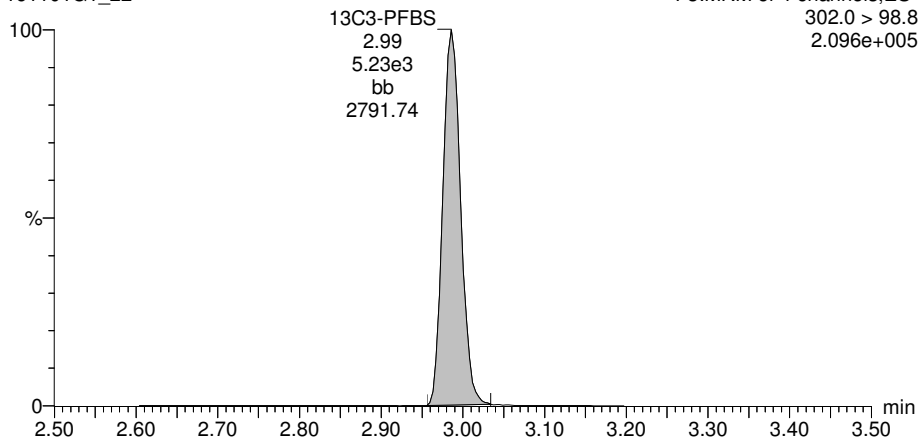
PFHpA

161101G1_22



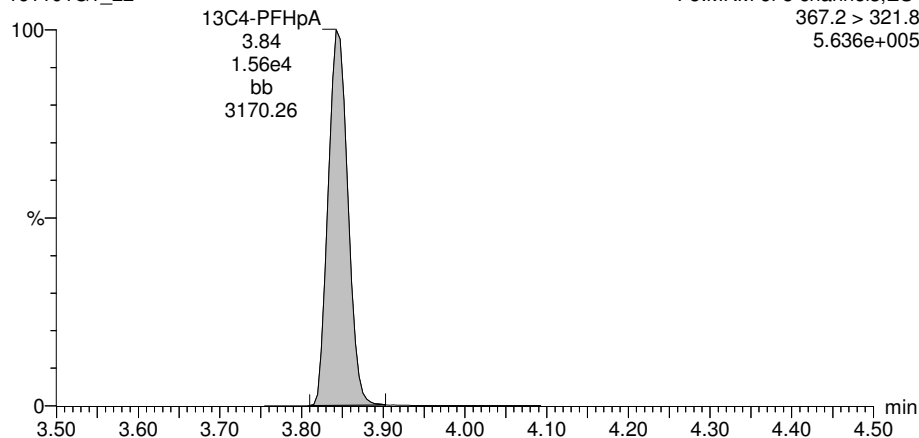
13C3-PFBS

161101G1_22



13C4-PFHpA

161101G1_22

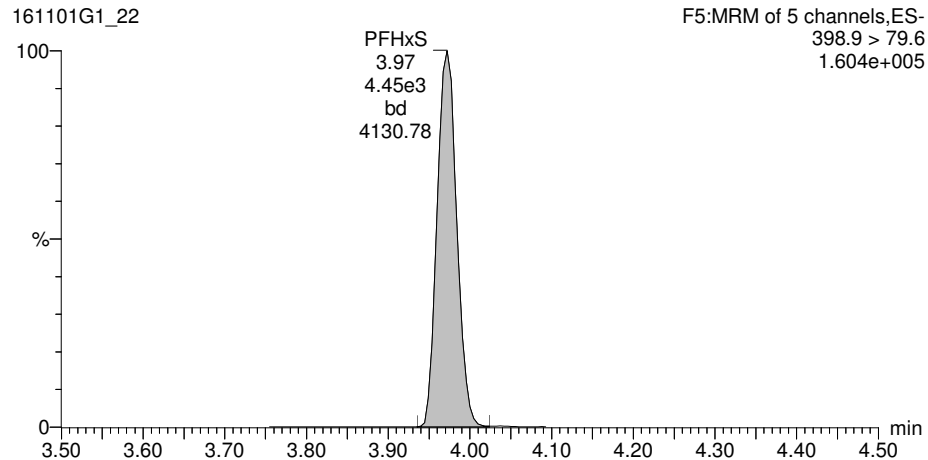


Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-22.qld

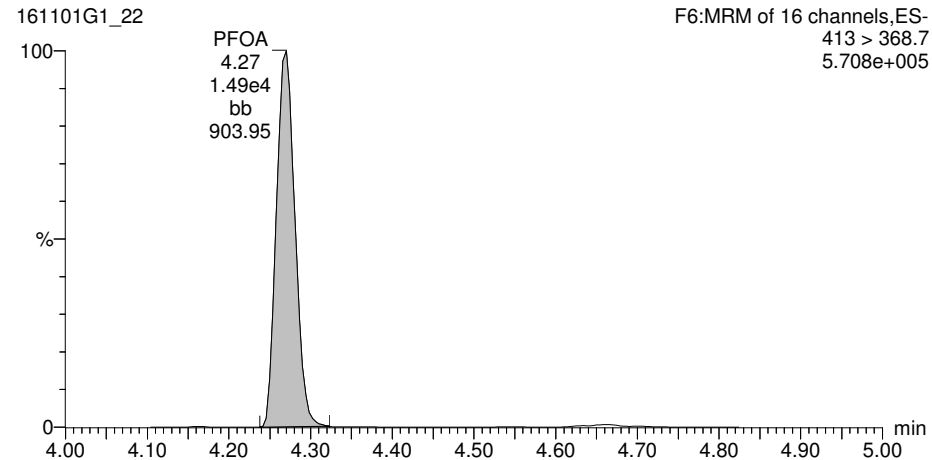
Last Altered: Wednesday, November 02, 2016 13:44:20 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 13:44:49 Pacific Daylight Time

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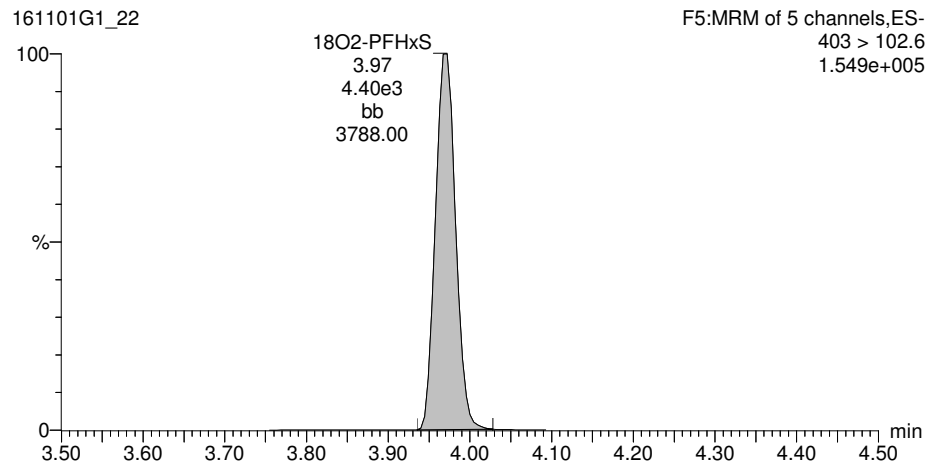
Total PFHxS



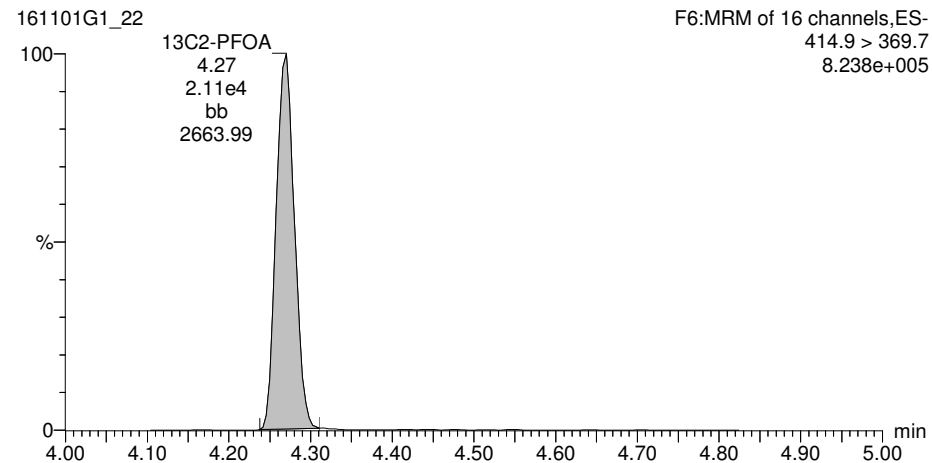
Total PFOA



18O2-PFHxS



13C2-PFOA

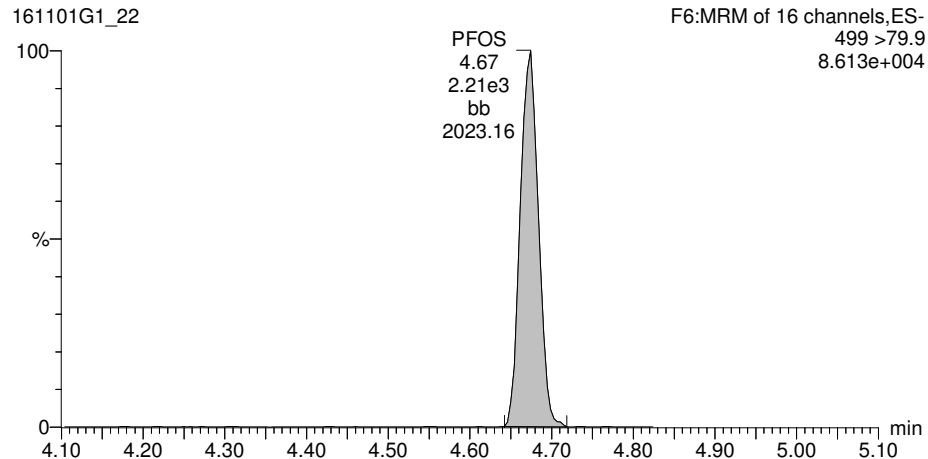


Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-22.qld

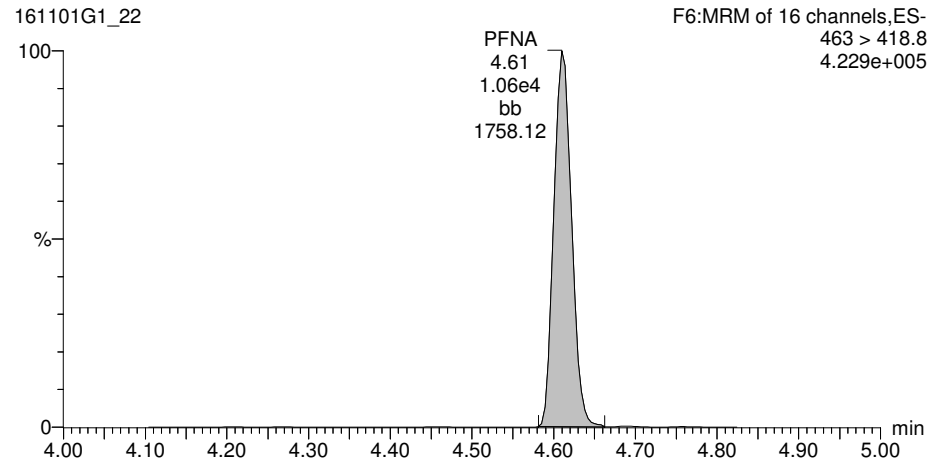
Last Altered: Wednesday, November 02, 2016 13:44:20 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 13:44:49 Pacific Daylight Time

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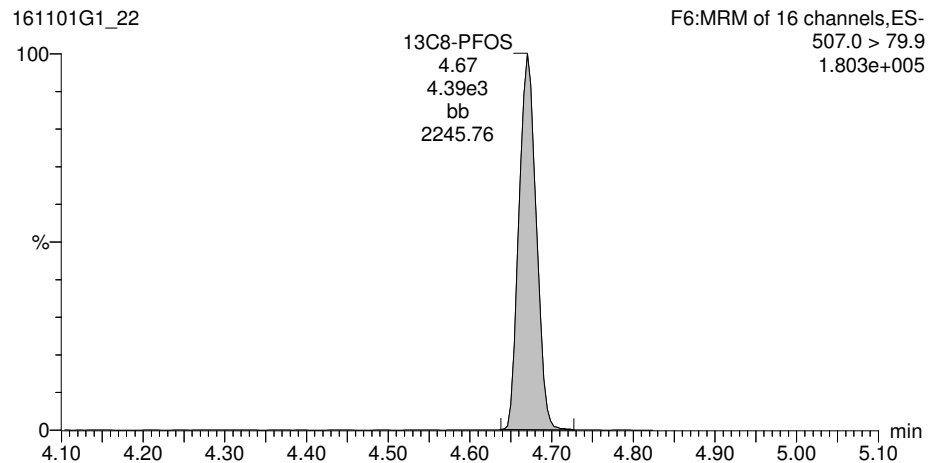
Total PFOS



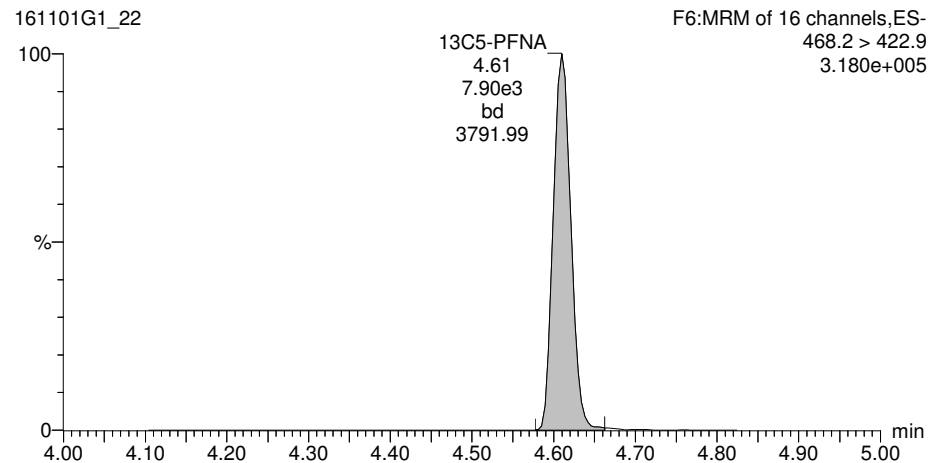
PFNA



13C8-PFOS



13C5-PFNA

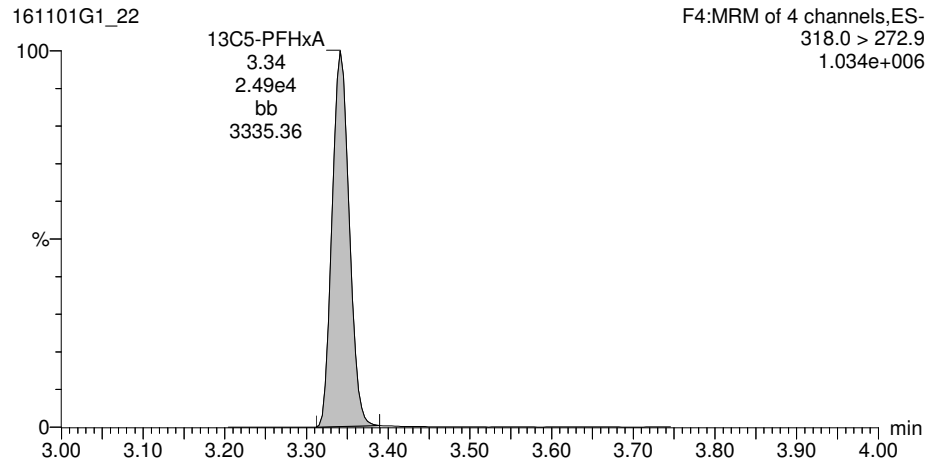


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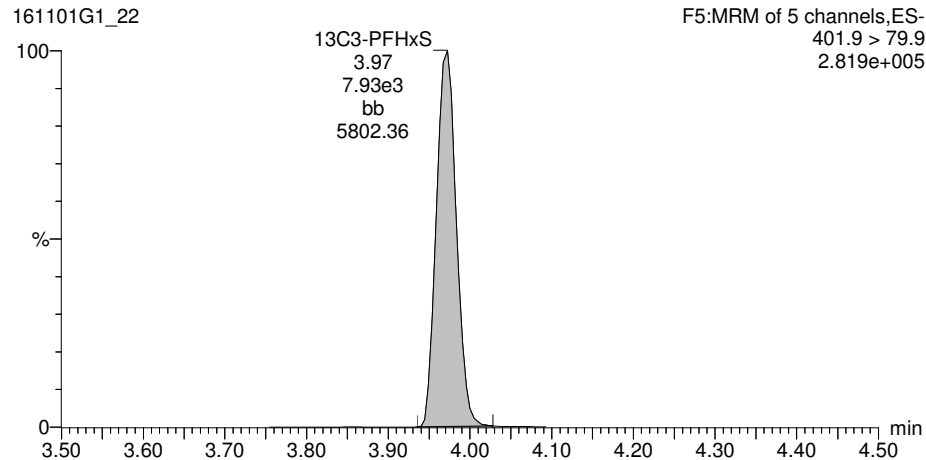
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Printed: Wednesday, November 02, 2016 13:44:49 Pacific Daylight Time

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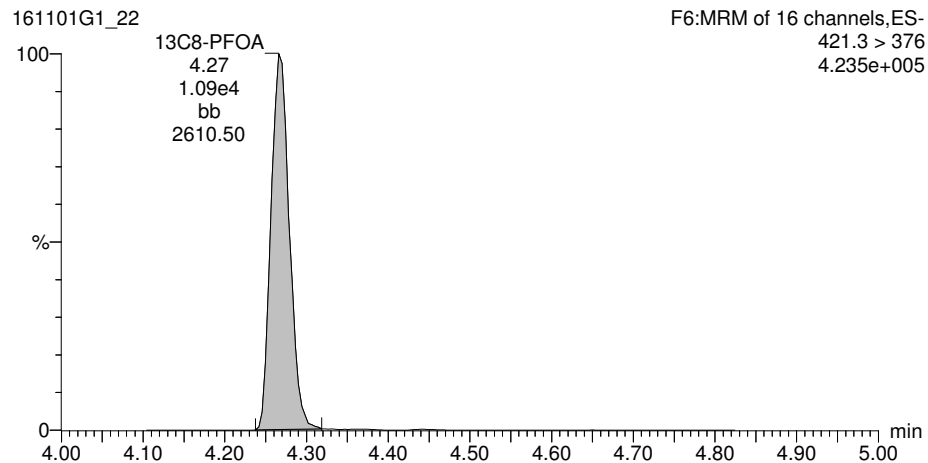
13C5-PFHxA



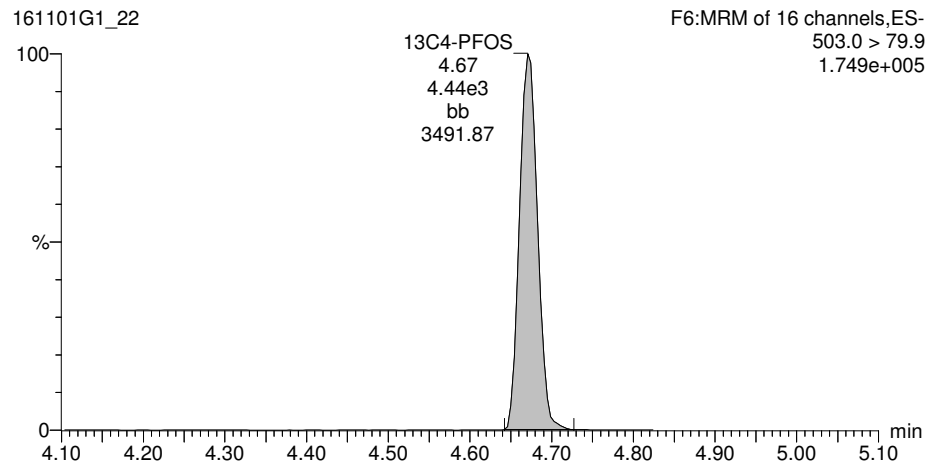
13C3-PFHxS



13C8-PFOA



13C4-PFOS



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-22.qld

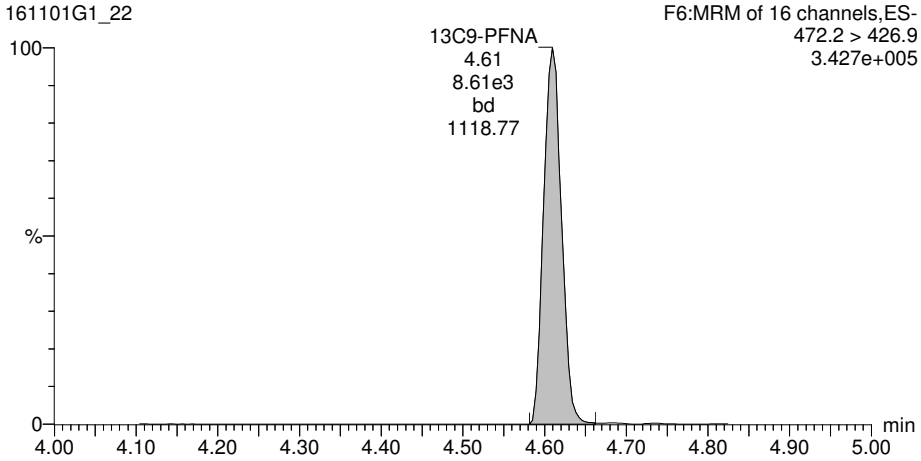
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Printed: Wednesday, November 02, 2016 13:44:49 Pacific Daylight Time

ID: B6K0001-BSD1 LCS Dup 0.125, Description: LCS Dup, Name: 161101G1_22, Date: 01-Nov-2016, Time: 18:24:45, Instrument: , Lab: , User:

13C9-PFNA

161101G1_22



Dataset: U:\Q2.PRO\Results\161102J4\161102J4_10_ngLTarget.qld

Last Altered: Friday, November 04, 2016 15:20:33 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:27:01 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	5.156e3	3.060e2		0.126	3.46	2110	
2	6 PFHxS	79.91	4.485e4	7.731e1		0.126	4.44	18300	
3	9 PFNA	419.00	3.637e3	4.478e2		0.126	5.03	956	
4	10 PFOS	79.92	7.548e4	1.115e2		0.126	5.09	55300 E	
5	15 13C3-PFBS	79.95	3.060e2	6.738e2	0.549	0.126	3.46	82.3	82.7
6	16 13C2-PFHxA	269.90	2.276e2	6.738e2	0.897	0.126	3.84	37.5	94.2
7	17 13C4-PFHpA	321.90	4.783e2	6.738e2	0.794	0.126	4.33	89.0	89.4
8	18 18O2-PFHxS	102.90	7.731e1	2.826e2	0.284	0.126	4.44	96.0	96.5
9	19 13C2-6:2 FTS	408.90	1.960e3	5.532e2	0.280	0.126	4.67	1260	1270
10	20 13C2-PFOA	369.90	5.039e2	5.532e2	0.809	0.126	4.71	112	113
11	21 13C5-PFNA	422.90	4.478e2	5.988e2	1.020	0.126	5.03	72.9	73.3
12	22 13C8-PFOS	79.93	1.115e2	1.653e2	0.947	0.126	5.08	70.9	71.2
13	25 13C4-PFBA	171.90	6.122e2	6.122e2	1.000	0.126	2.03	99.5	100
14	26 13C5-PFHxA	273.00	6.738e2	6.738e2	1.000	0.126	3.84	99.5	100
15	27 13C3-PFHxS	80.01	2.826e2	2.826e2	1.000	0.126	4.43	99.5	100
16	28 13C8-PFOA	375.90	5.532e2	5.532e2	1.000	0.126	4.71	99.5	100
17	29 13C4-PFOS	79.94	1.653e2	1.653e2	1.000	0.126	5.09	99.5	100
18	30 13C9-PFNA	427.00	5.988e2	5.988e2	1.000	0.126	5.03	99.5	100
19	31 13C6-PFDA	474.00	2.351e2	2.351e2	1.000	0.126	5.30	99.5	100
20	32 Total PFBS	79.90		3.060e2		0.126		2150	
21	33 Total PFHxS	79.91		7.731e1		0.126		22200	
22	34 Total PFOA	368.90		5.039e2		0.126		1500	
23	35 Total PFOS	79.92		1.115e2		0.126		101000	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_10_ngLTarget.qld

Last Altered: Friday, November 04, 2016 15:20:33 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:27:01 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	5155.572	306.046	2113.1
2	32 Total PFBS	79.90	3.34	85.465	306.046	34.6

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	44851.813	77.315	18343.5
2	33 Total PFHxS	79.91	4.34	9327.100	77.315	3814.4

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.71	59510.945	503.858	
2	34 Total PFOA	368.90	4.62	5809.608	503.858	1501.0

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	75482.703	111.511	55277.5
2	35 Total PFOS	79.92	4.98	61973.598	111.511	45384.6

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_10_ngLTarget.qld

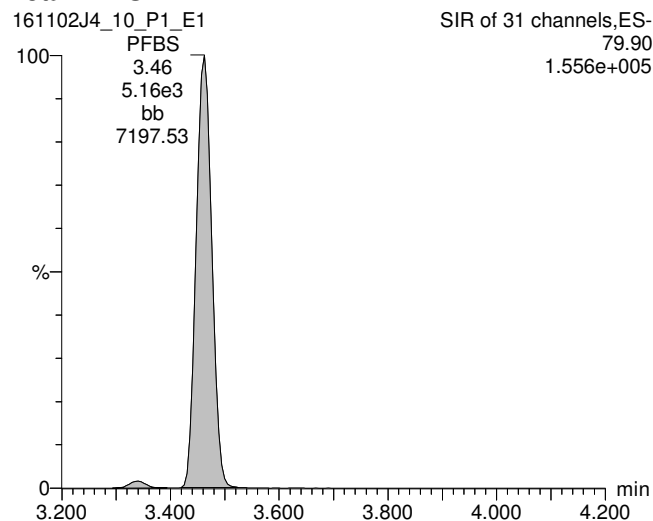
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Printed: Friday, November 04, 2016 15:27:01 Pacific Daylight Time

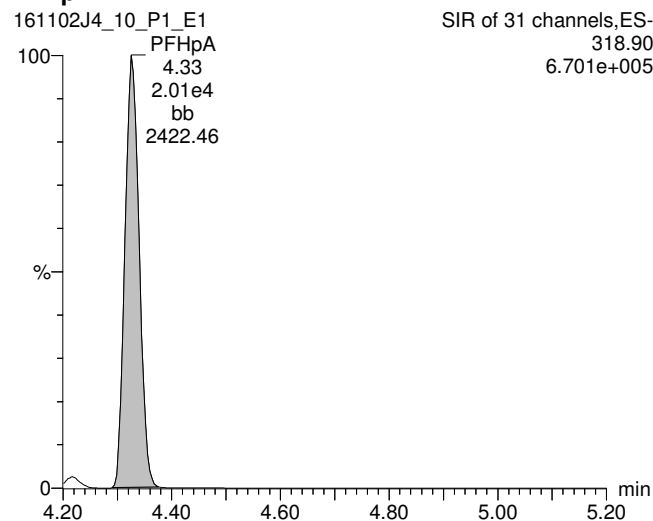
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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03, Instrument: , Lab: ©PE-SCIEX, User: sciex

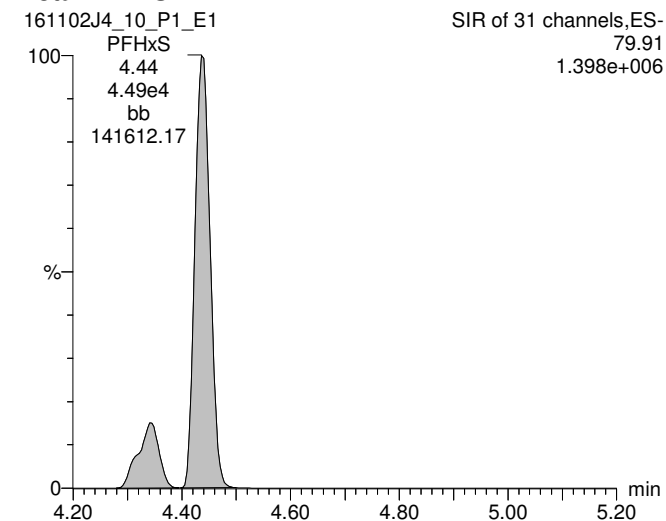
Total PFBS



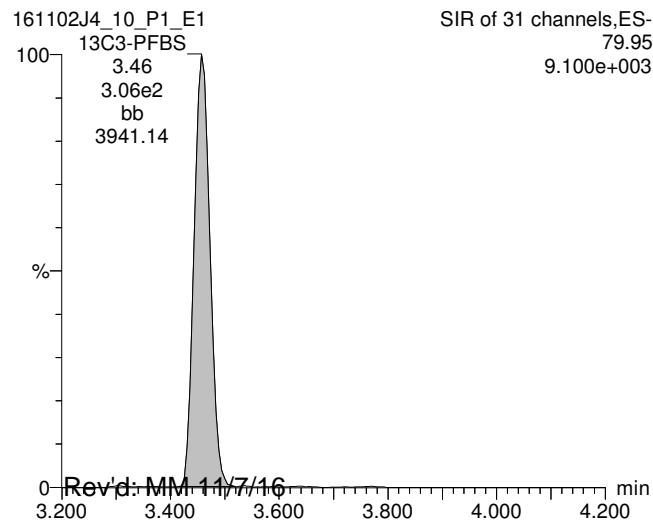
PFHpA



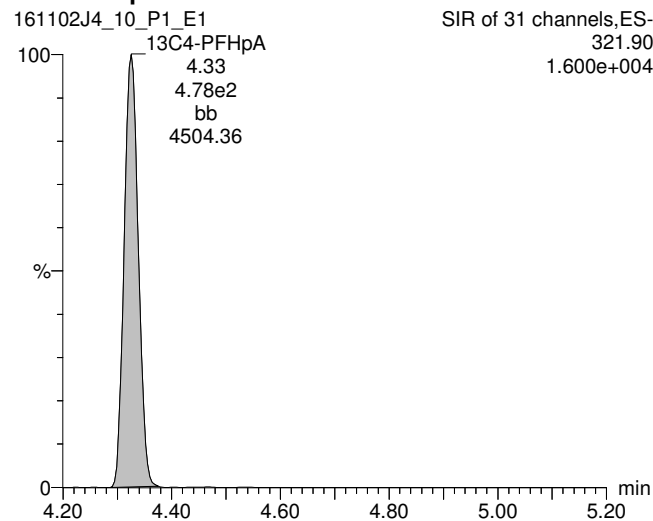
Total PFHxS



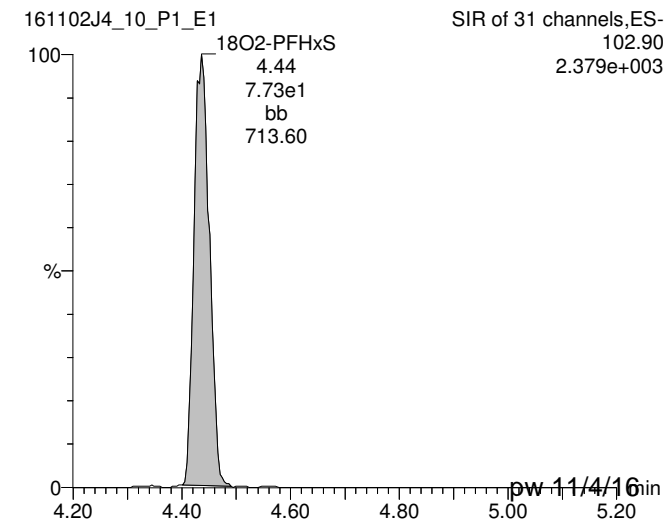
13C3-PFBS



13C4-PFHpA

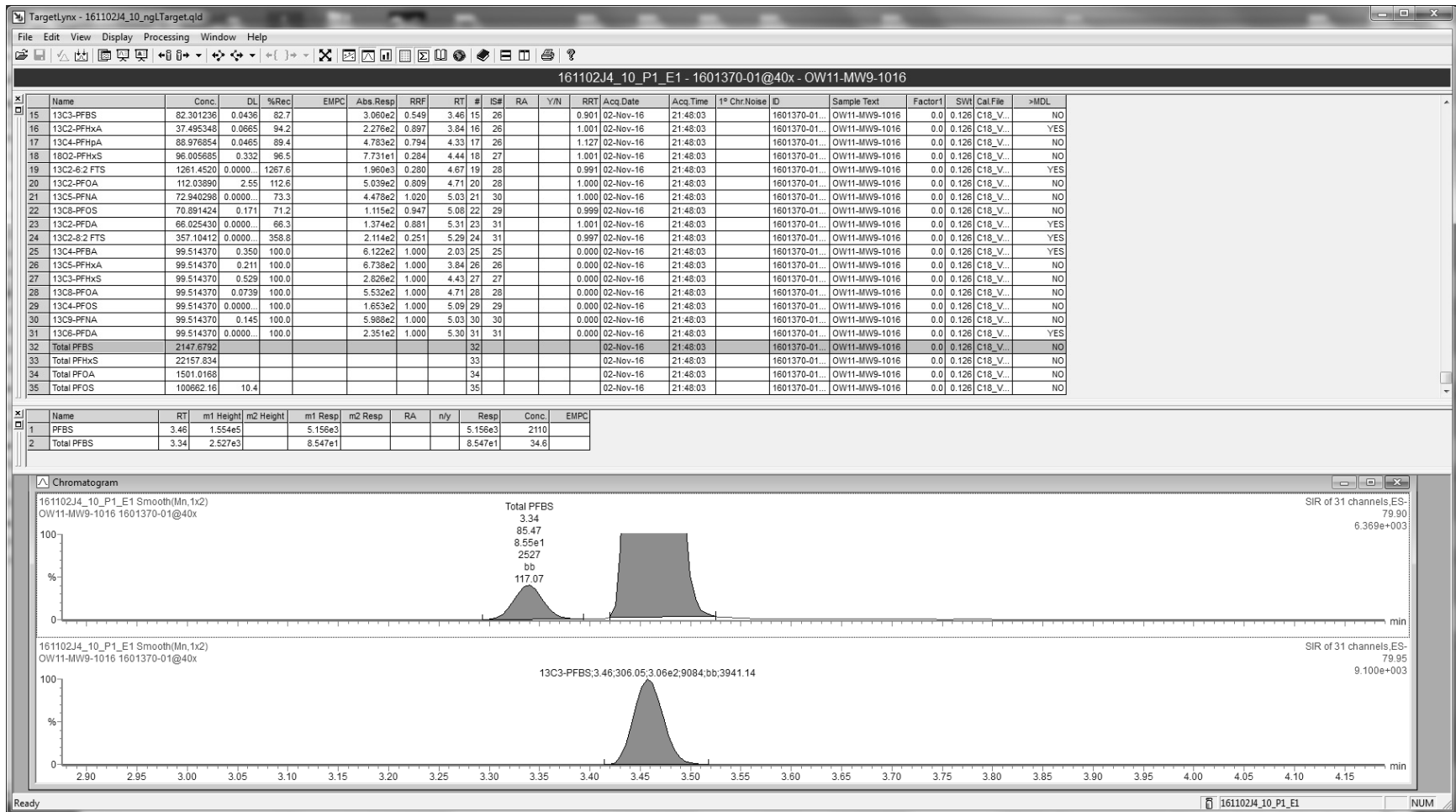


18O2-PFHxS



Rev'd: MM-11/7/16

pw-11/4/16



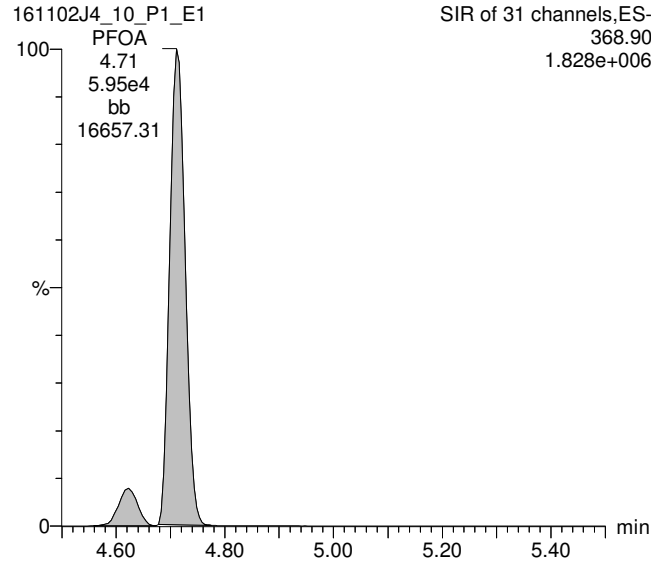
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Last Altered: Friday, November 04, 2016 15:20:33 Pacific Daylight Time

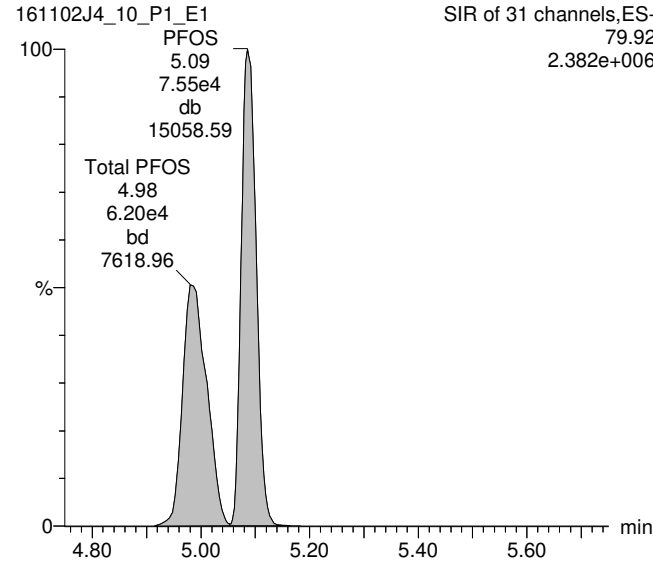
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ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03, Instrument: , Lab: ©PE-SCIEX, User: sciex

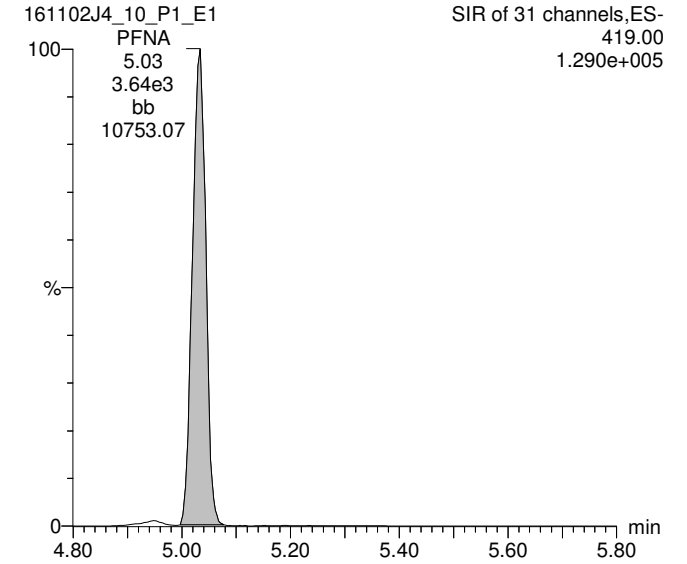
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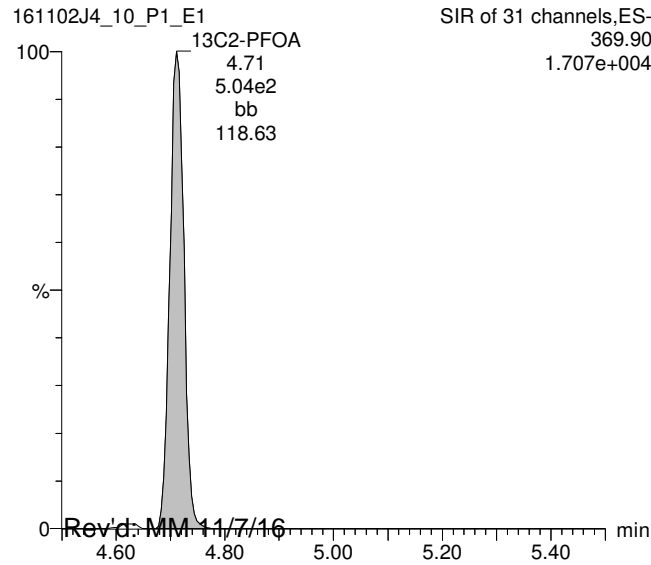
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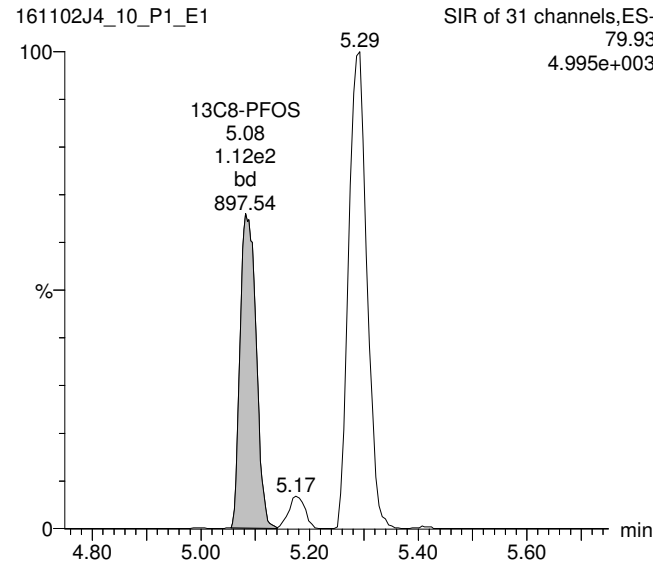
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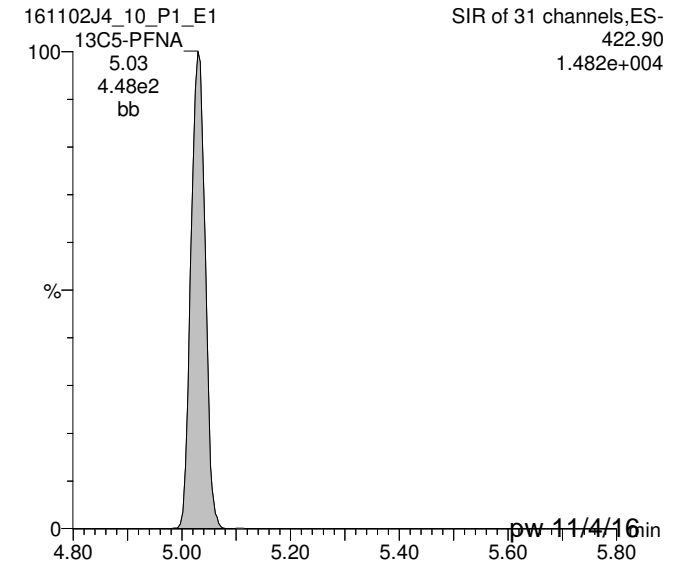
13C2-PFOA



13C8-PFOS



13C5-PFNA



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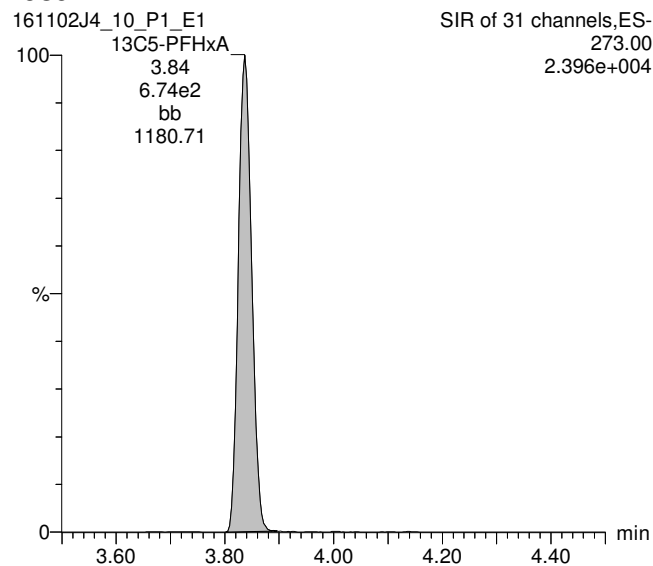
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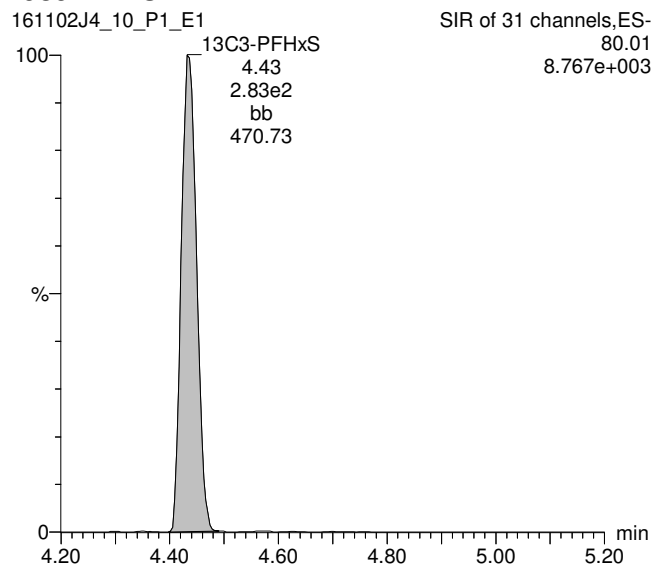
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ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03, Instrument: , Lab: ©PE-SCIEX, User: sciex

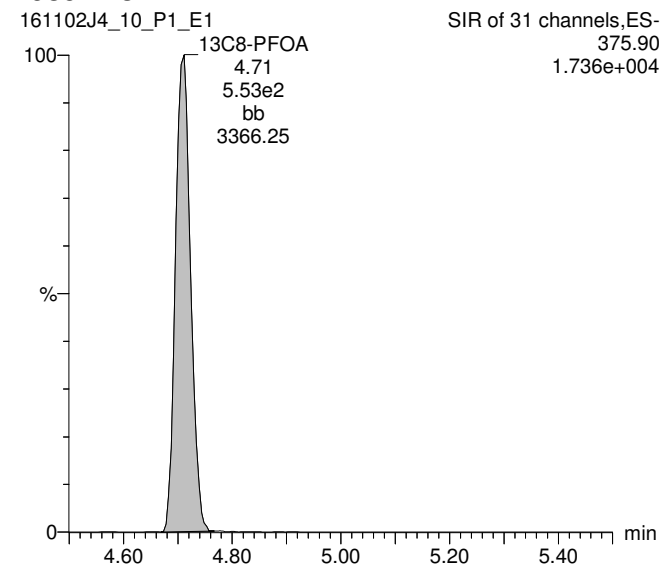
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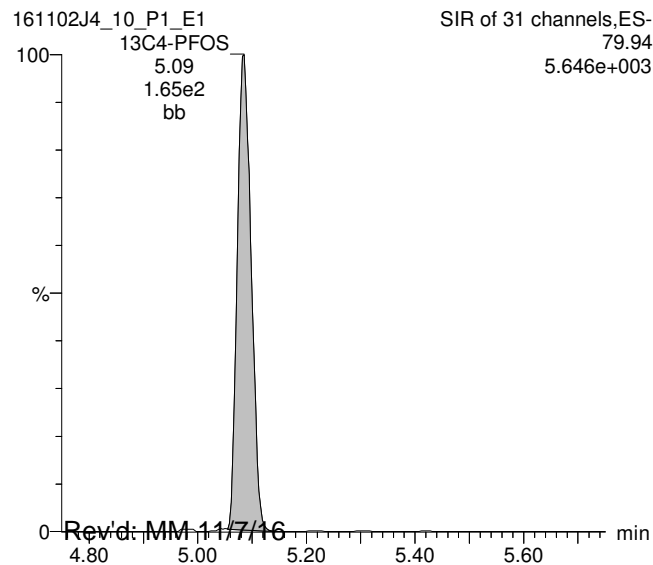
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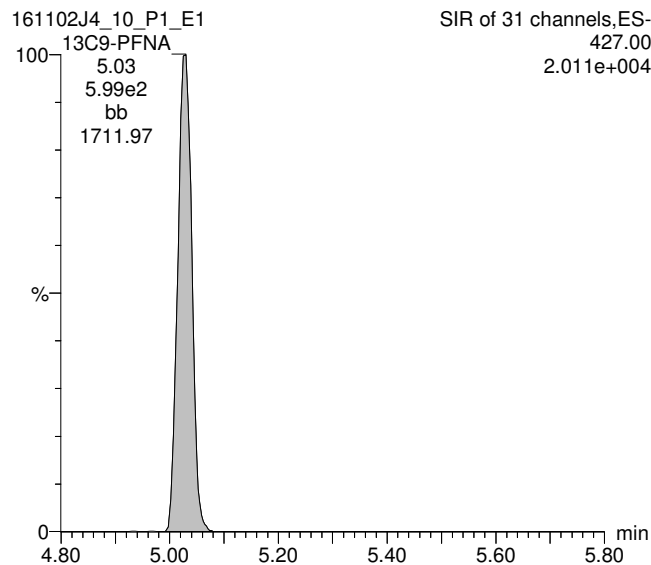
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Work Order 1601370

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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_10_ugLTarget.qld

Last Altered: Friday, November 04, 2016 15:30:22 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:32:19 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	2.009e4	4.783e2		0.126	4.33	4.57	
2	8 PFOA	368.90	5.951e4	5.039e2		0.126	4.71	8.52	
3	15 13C3-PFBS	79.95	3.060e2	6.738e2	0.549	0.126	3.46	0.0823	82.7
4	16 13C2-PFHxA	269.90	2.276e2	6.738e2	0.897	0.126	3.84	0.0375	94.2
5	17 13C4-PFHpA	321.90	4.783e2	6.738e2	0.794	0.126	4.33	0.0890	89.4
6	18 18O2-PFHxS	102.90	7.731e1	2.826e2	0.284	0.126	4.44	0.0960	96.5
7	19 13C2-6:2 FTS	408.90	1.960e3	5.532e2	0.280	0.126	4.67	1.26	1270
8	20 13C2-PFOA	369.90	5.039e2	5.532e2	0.809	0.126	4.71	0.112	113
9	21 13C5-PFNA	422.90	4.478e2	5.988e2	1.020	0.126	5.03	0.0729	73.3
10	22 13C8-PFOS	79.93	1.115e2	1.653e2	0.947	0.126	5.08	0.0709	71.2
11	25 13C4-PFBA	171.90	6.122e2	6.122e2	1.000	0.126	2.03	0.0995	100
12	26 13C5-PFHxA	273.00	6.738e2	6.738e2	1.000	0.126	3.84	0.0995	100
13	27 13C3-PFHxS	80.01	2.826e2	2.826e2	1.000	0.126	4.43	0.0995	100
14	28 13C8-PFOA	375.90	5.532e2	5.532e2	1.000	0.126	4.71	0.0995	100
15	29 13C4-PFOS	79.94	1.653e2	1.653e2	1.000	0.126	5.09	0.0995	100
16	30 13C9-PFNA	427.00	5.988e2	5.988e2	1.000	0.126	5.03	0.0995	100
17	31 13C6-PFDA	474.00	2.351e2	2.351e2	1.000	0.126	5.30	0.0995	100
18	32 Total PFBS	79.90		3.060e2		0.126		1.66 ⁻	
19	33 Total PFHxS	79.91		7.731e1		0.126		21.6 ⁻	
20	34 Total PFOA	368.90		5.039e2		0.126		8.55	
21	35 Total PFOS	79.92		1.115e2		0.126		102 ⁻	

Target = ug/L

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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_10_ugLTarget.qld

Last Altered: Friday, November 04, 2016 15:30:22 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:32:19 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	5155.572	306.046	1.7
2	32 Total PFBS	79.90	3.34	85.465	306.046	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	44851.813	77.315	18.1
2	33 Total PFHxS	79.91	4.34	9327.100	77.315	3.5

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.71	59510.945	503.858	8.5
2	34 Total PFOA	368.90	4.62	5809.608	503.858	0.0

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	75482.703	111.511	55.8
2	35 Total PFOS	79.92	4.98	61973.598	111.511	45.9

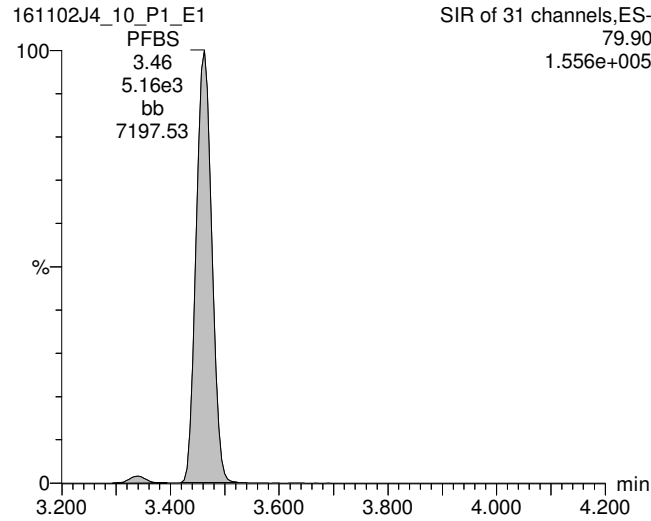
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Last Altered: Friday, November 04, 2016 15:30:22 Pacific Daylight Time
Printed: Friday, November 04, 2016 15:32:19 Pacific Daylight Time

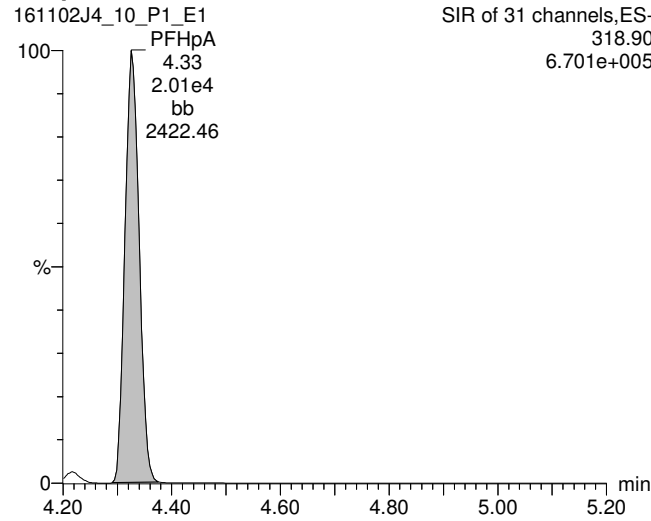
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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03, Instrument: , Lab: ©PE-SCIEX, User: sciex

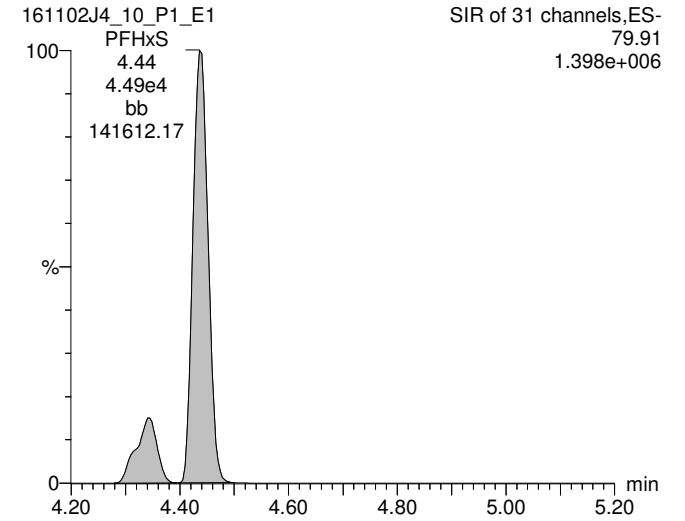
Total PFBS



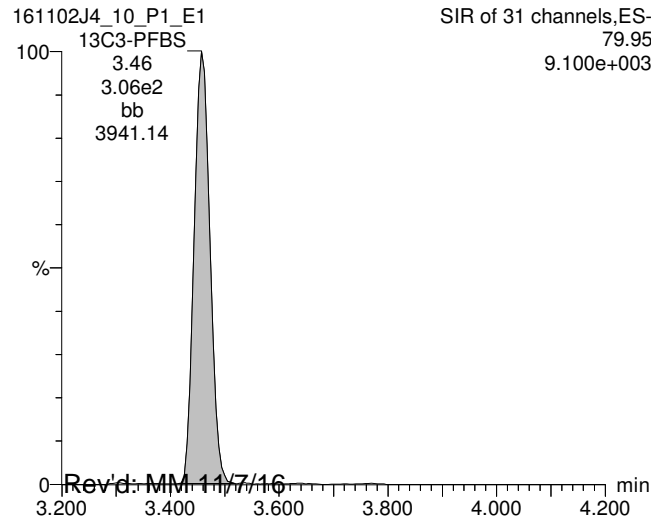
PFHpA



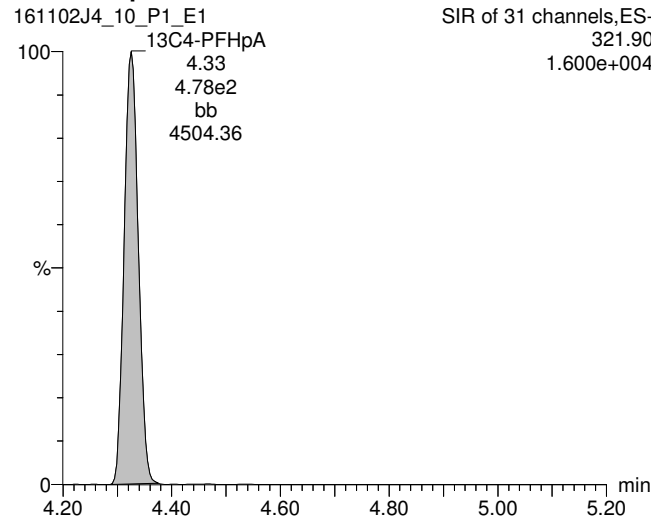
Total PFHxS



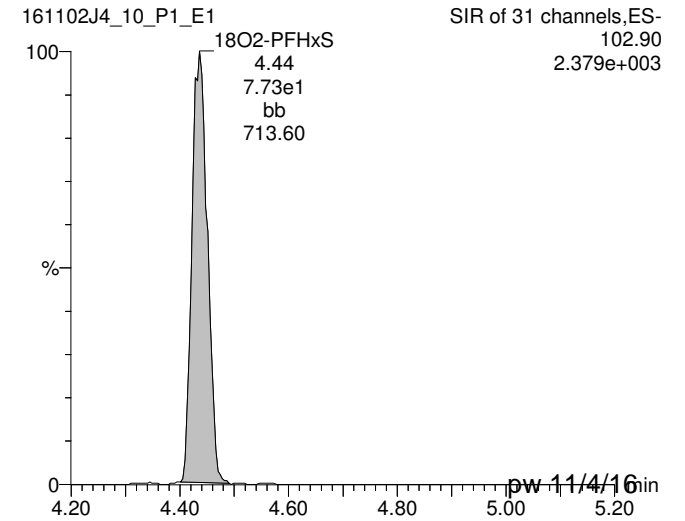
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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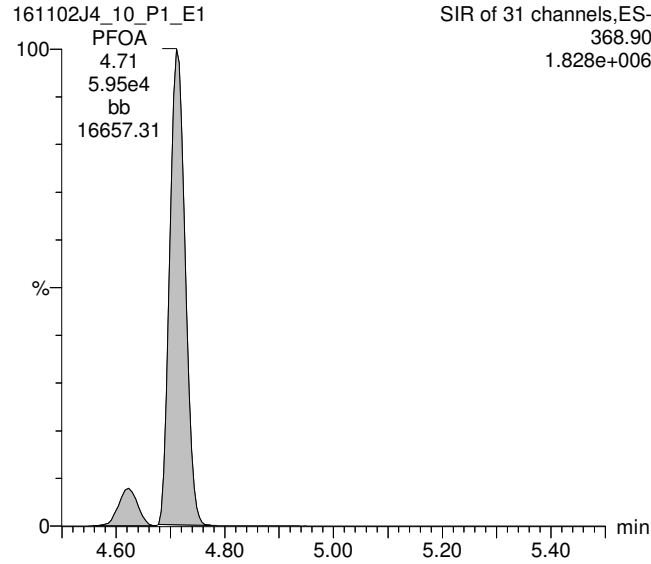
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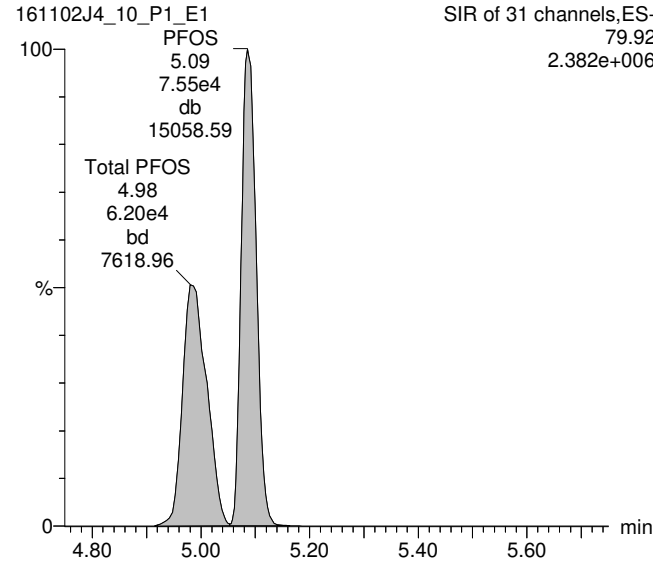
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ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03, Instrument: , Lab: ©PE-SCIEX, User: sciex

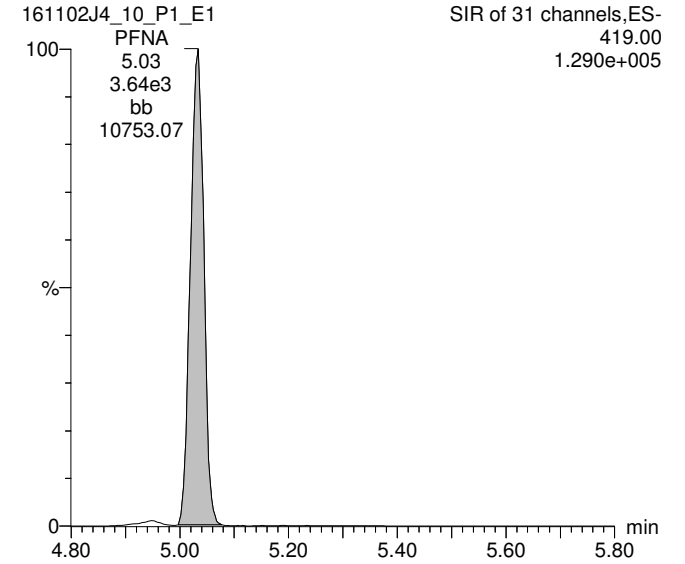
Total PFOA



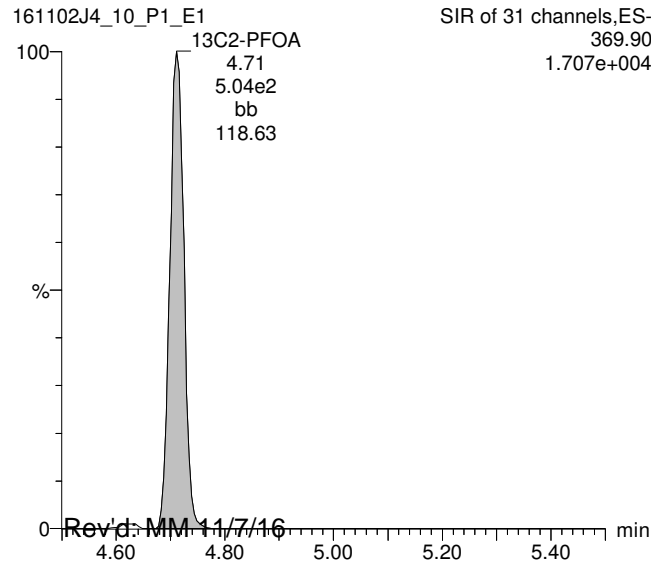
Total PFOS



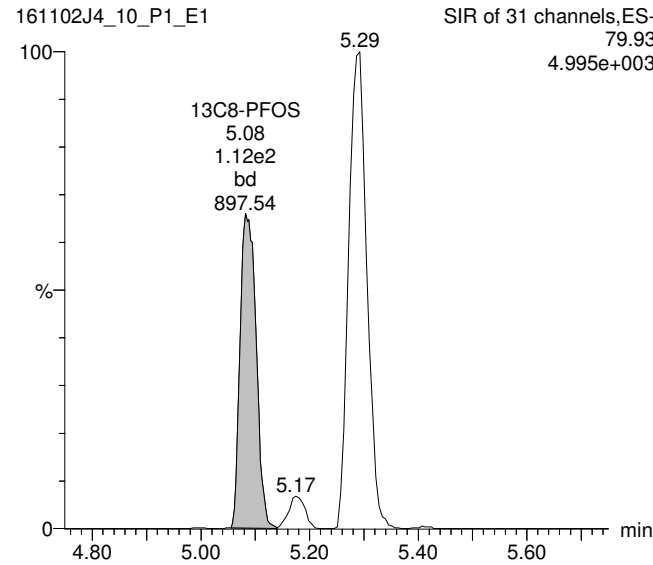
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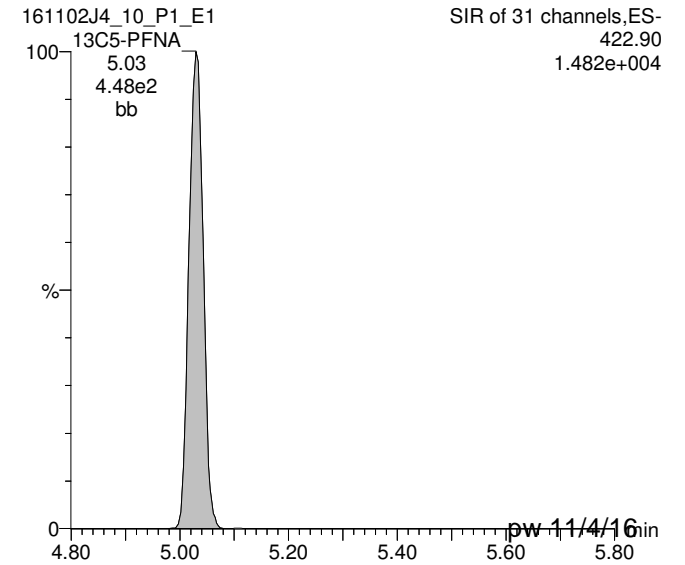
13C2-PFOA



13C8-PFOS



13C5-PFNA



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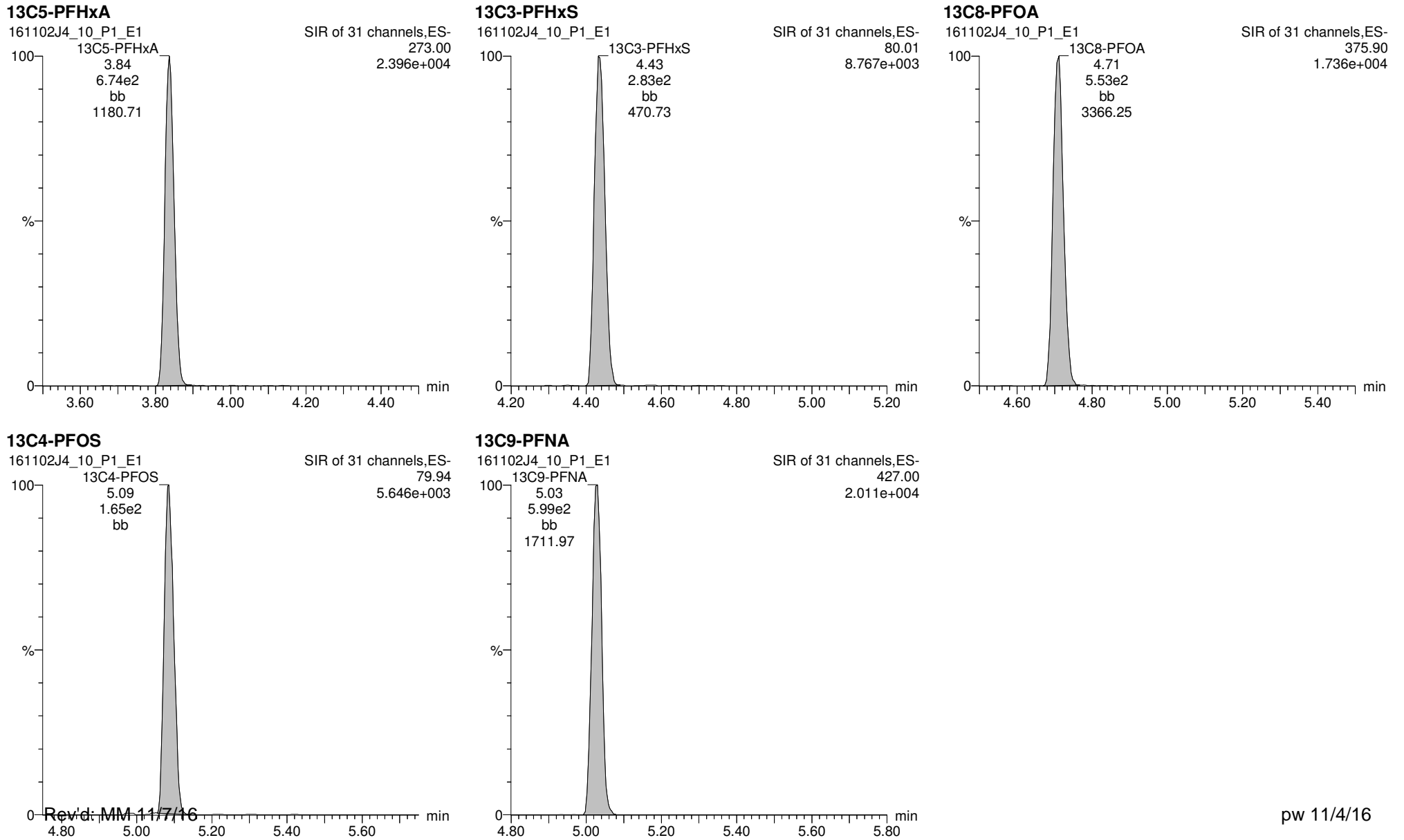
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ID: 1601370-01@40x, Description: OW11-MW9-1016, Name: 161102J4_10.wiff, Date: 02-Nov-2016, Time: 21:48:03, Instrument: , Lab: ©PE-SCIEX, User: sciex



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Dataset: U:\Q2.PRO\Results\161104J3\161104J3_05.qld

Last Altered: Monday, November 07, 2016 10:58:53 Pacific Standard Time

Printed: Monday, November 07, 2016 11:02:30 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	2.375e3	1.595e2		0.124	3.49	1900	
2	6 PFHxS	79.91	1.663e4	2.672e1		0.124	4.46	20000	
3	9 PFNA	419.00	6.523e2	7.976e1		0.124	5.06	978	
4	10 PFOS	79.92	3.506e4	5.977e1		0.124	5.13	48600	E
5	15 13C3-PFBS	79.95	1.595e2	3.347e2	0.549	0.124	3.49	87.7	86.7
6	22 13C8-PFOS	79.93	5.977e1	7.758e1	0.947	0.124	5.12	82.2	81.4
7	25 13C4-PFBA	171.90	3.127e2	3.127e2	1.000	0.124	2.08	101	100
8	26 13C5-PFHxA	273.00	3.347e2	3.347e2	1.000	0.124	3.86	101	100
9	27 13C3-PFHxS	80.01	1.142e2	1.142e2	1.000	0.124	4.46	101	100
10	28 13C8-PFOA	375.90	1.683e2	1.683e2	1.000	0.124	4.73	101	100
11	29 13C4-PFOS	79.94	7.758e1	7.758e1	1.000	0.124	5.12	101	100
12	30 13C9-PFNA	427.00	9.950e1	9.950e1	1.000	0.124	5.06	101	100
13	31 13C6-PFDA	474.00	8.907e1	8.907e1	1.000	0.124	5.35	101	100
14	32 Total PFBS	79.90		1.595e2		0.124		1930	
15	33 Total PFHxS	79.91		2.672e1		0.124		24200	
16	34 Total PFOA	368.90		1.370e2		0.124			
17	35 Total PFOS	79.92		5.977e1		0.124		74400	

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Dataset: U:\Q2.PRO\Results\161104J3\161104J3_05.qld

Last Altered: Monday, November 07, 2016 10:58:53 Pacific Standard Time

Printed: Monday, November 07, 2016 11:02:30 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.49	2374.566	159.476	1896.5
2	32 Total PFBS	79.90	3.37	40.594	159.476	32.0

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.46	16630.225	26.718	19985.5
2	33 Total PFHxS	79.91	4.37	3547.976	26.718	4263.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.74	18236.211	136.978	
2	34 Total PFOA	368.90	4.65	1938.686	136.978	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	35 Total PFOS	79.92	4.94	607.559	59.771	843.5
2	10 PFOS	79.92	5.13	35058.691	59.771	48638.4
3	35 Total PFOS	79.92	5.02	17931.727	59.771	24877.7

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Last Altered: Monday, November 07, 2016 10:58:53 Pacific Standard Time

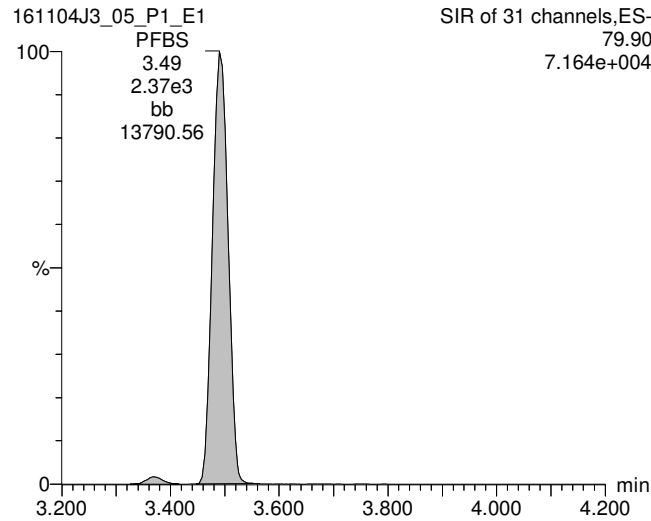
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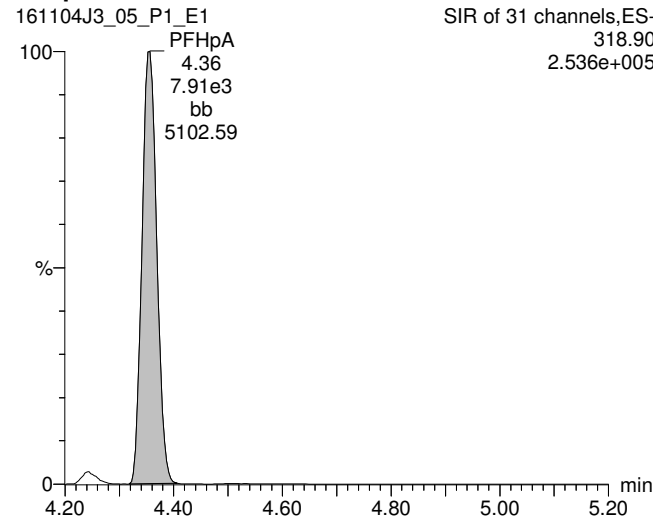
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ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04, Instrument: , Lab: ©PE-SCIEX, User: sciex

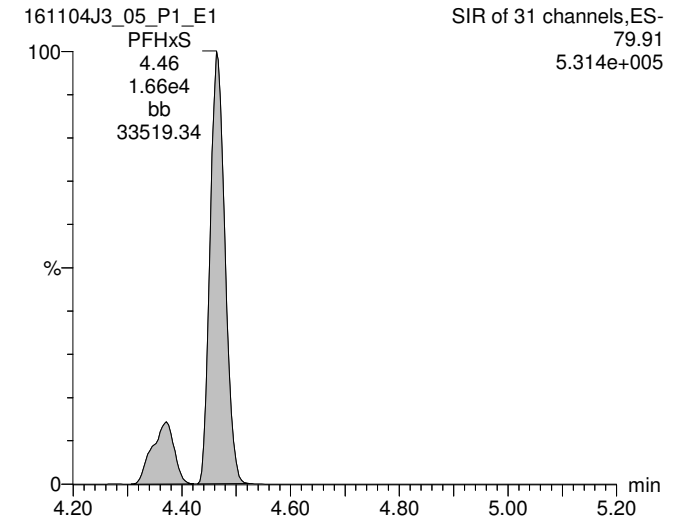
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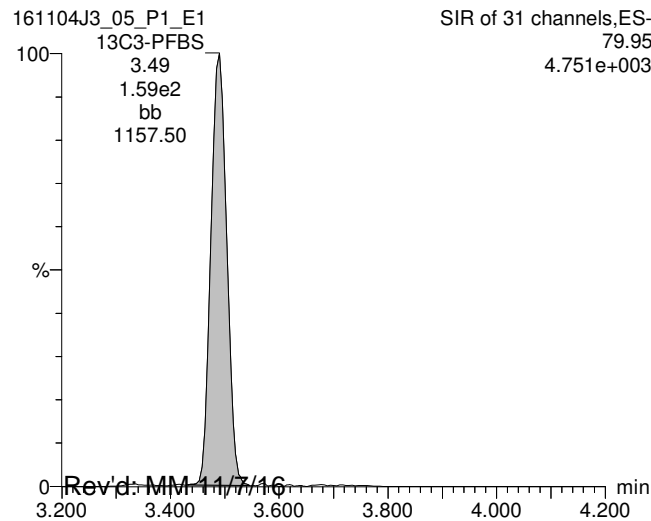
PFHpA



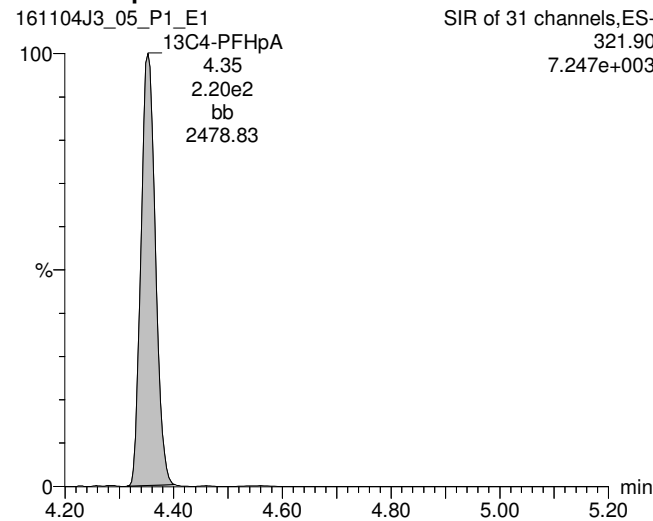
Total PFHxS



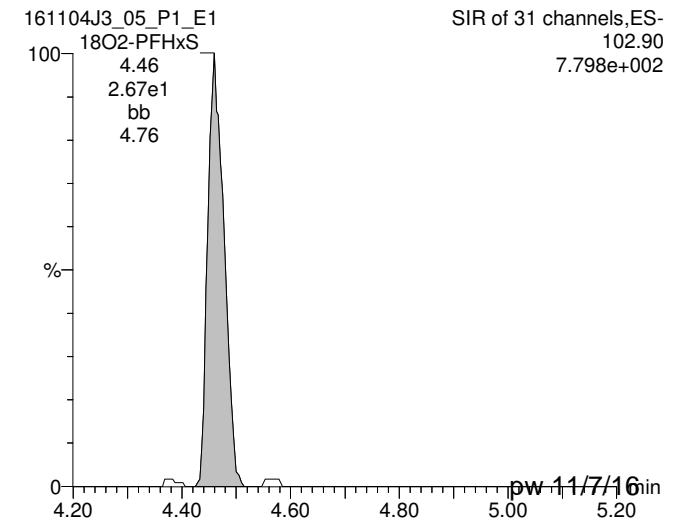
13C3-PFBS



13C4-PFHpA

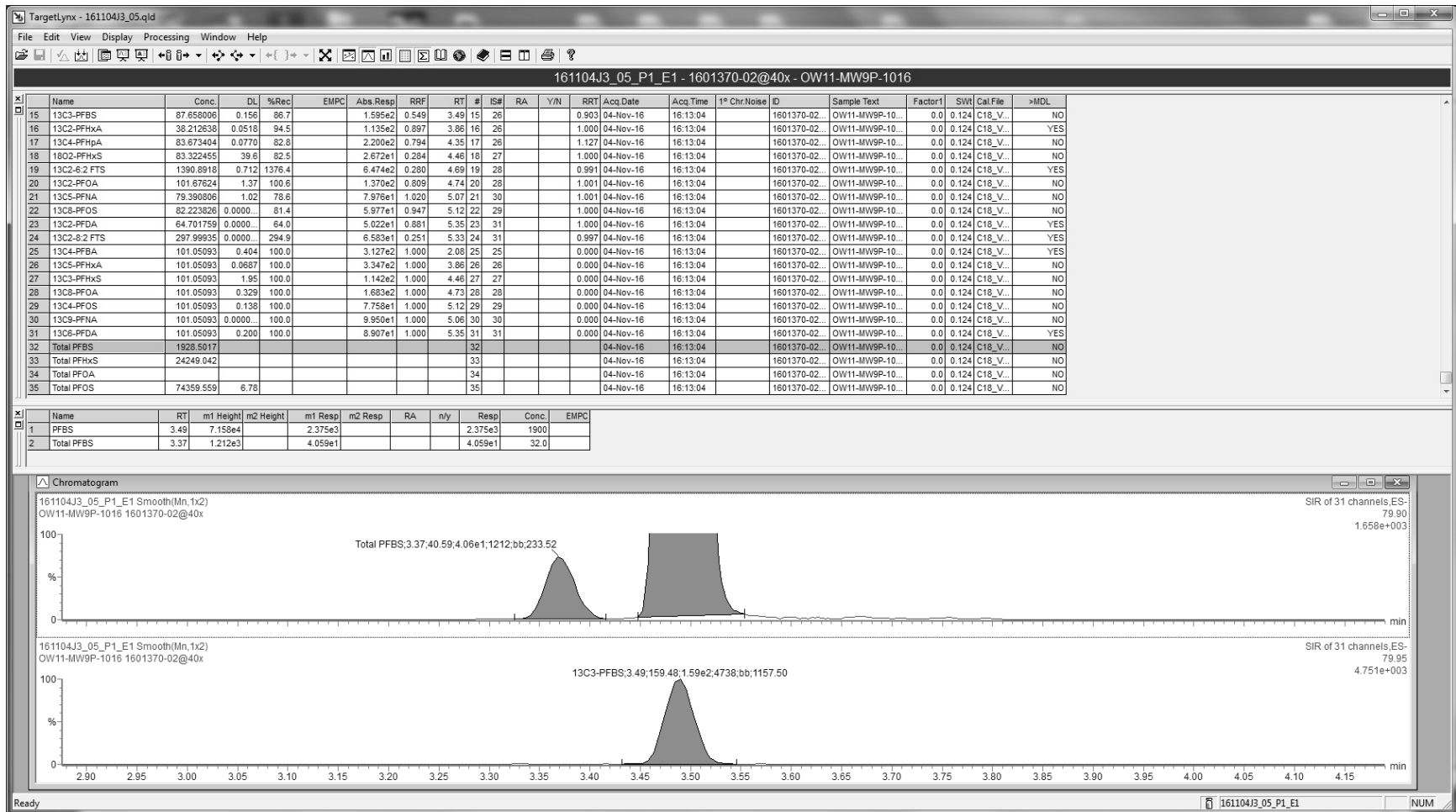


18O2-PFHxS



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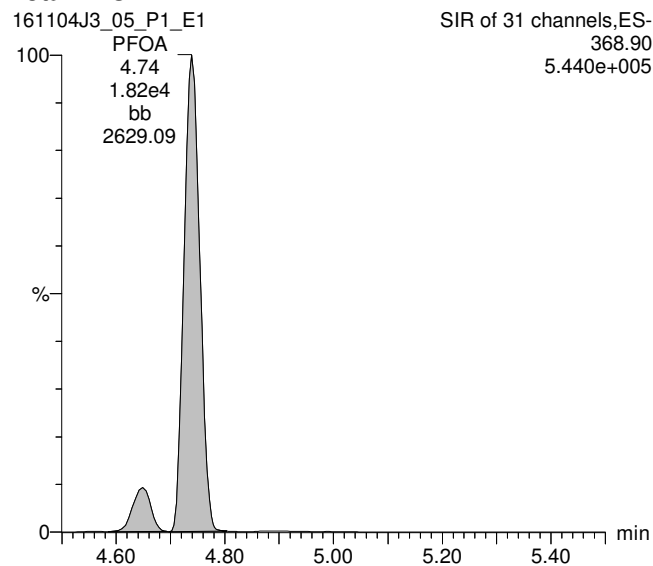
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Last Altered: Monday, November 07, 2016 10:58:53 Pacific Standard Time

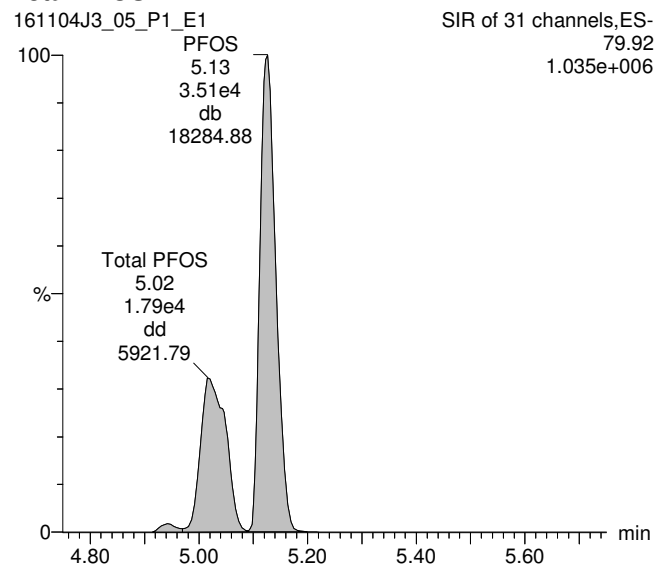
Printed: Monday, November 07, 2016 11:02:30 Pacific Standard Time

ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04, Instrument: , Lab: ©PE-SCIEX, User: sciex

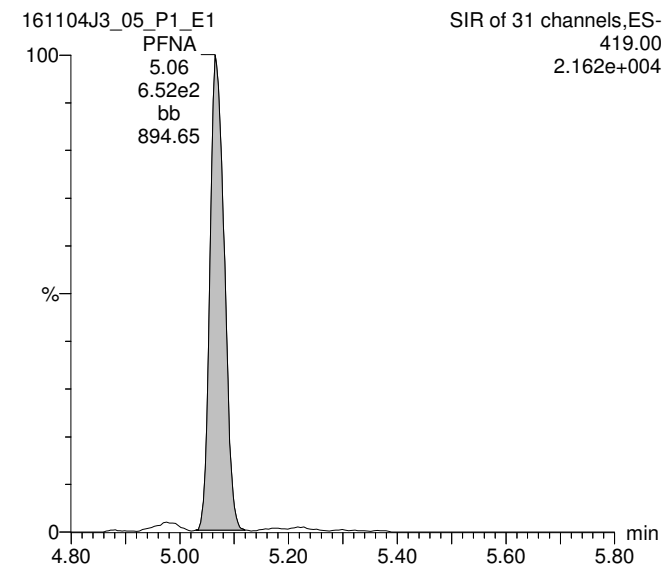
Total PFOA



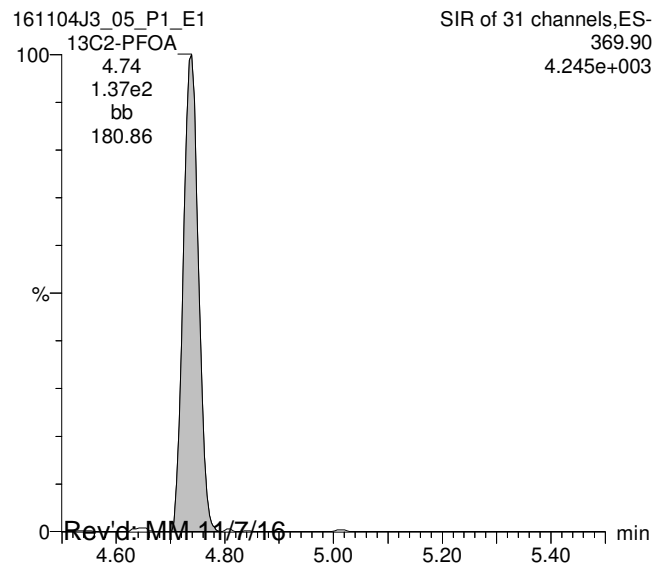
Total PFOS



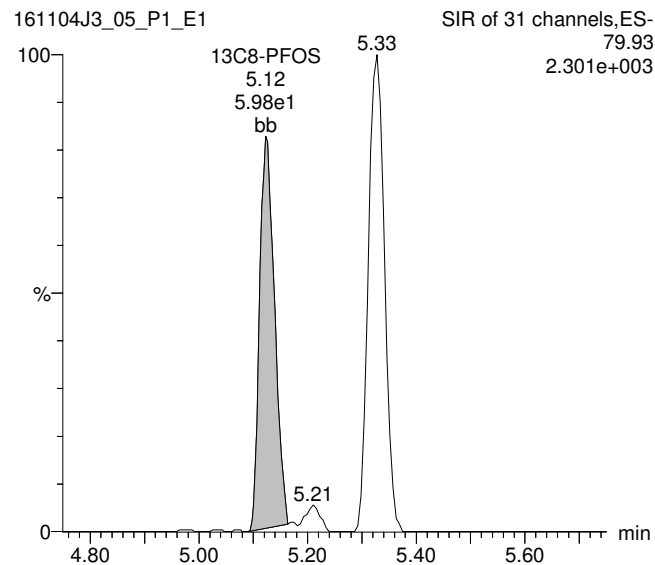
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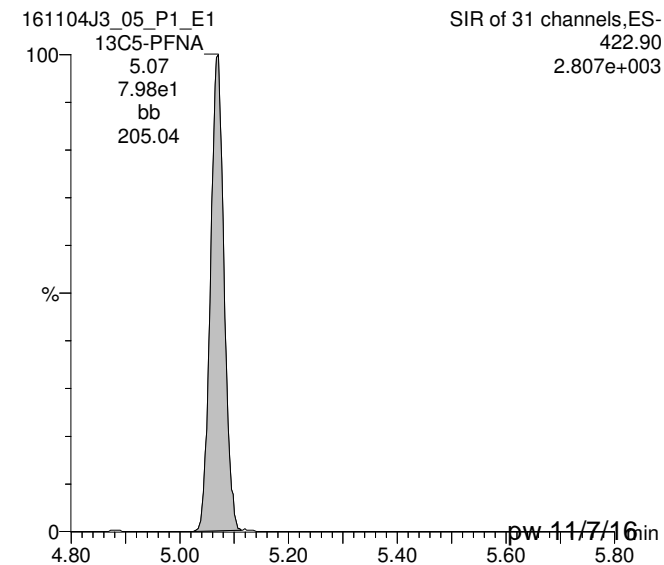
13C2-PFOA



13C8-PFOS

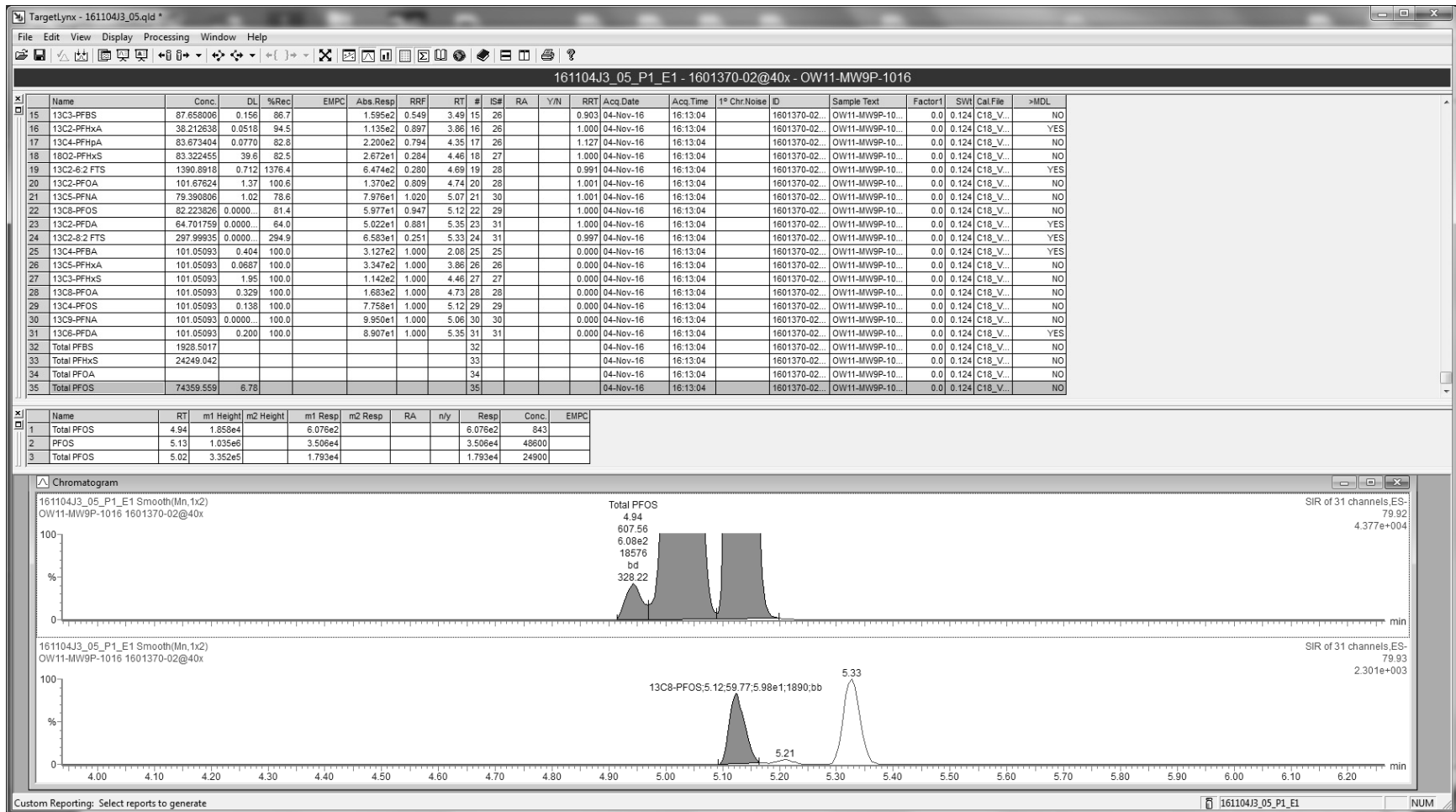


13C5-PFNA



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pw-11/7/16



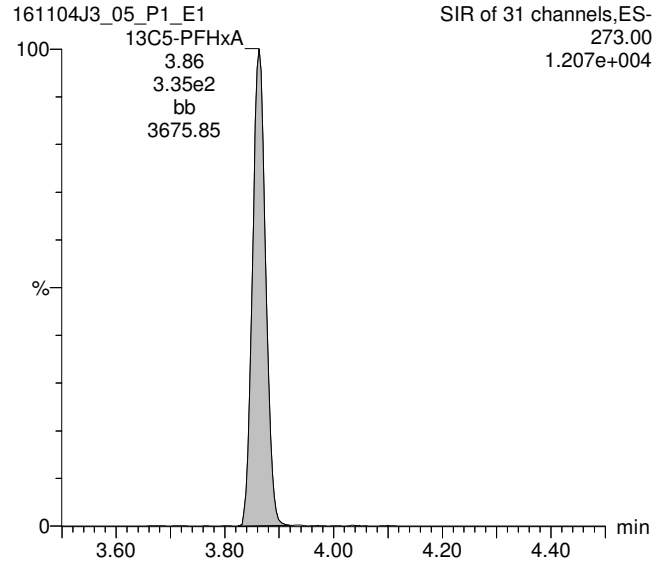
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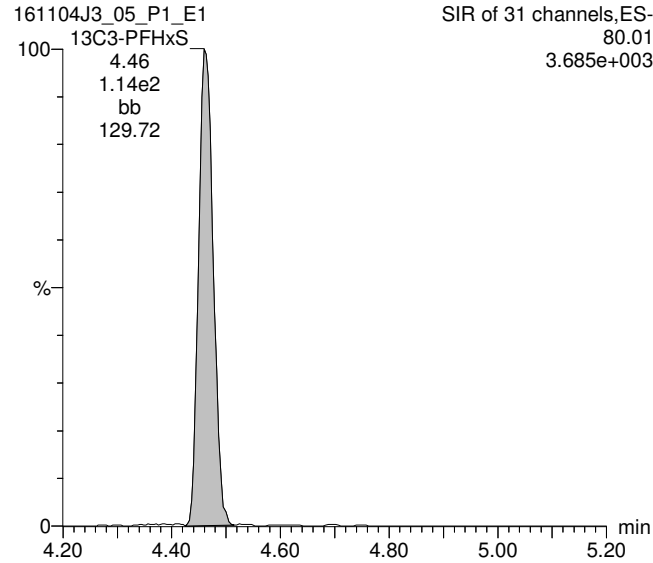
Printed: Monday, November 07, 2016 11:02:30 Pacific Standard Time

ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04, Instrument: , Lab: ©PE-SCIEX, User: sciex

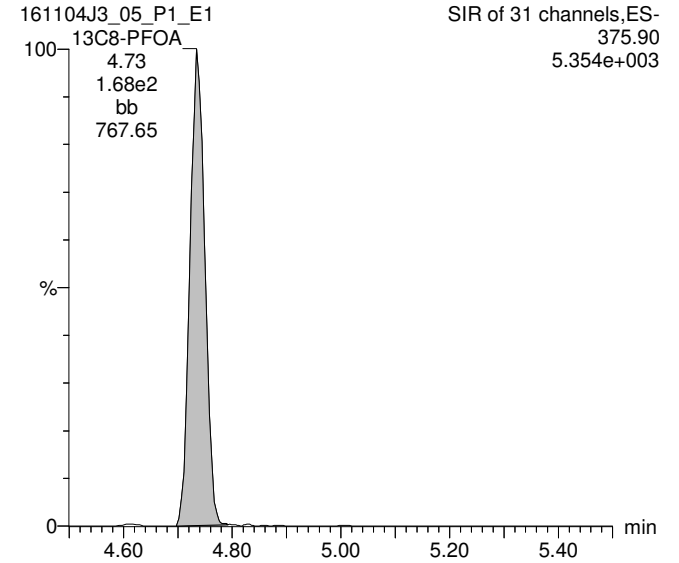
13C5-PFHxA



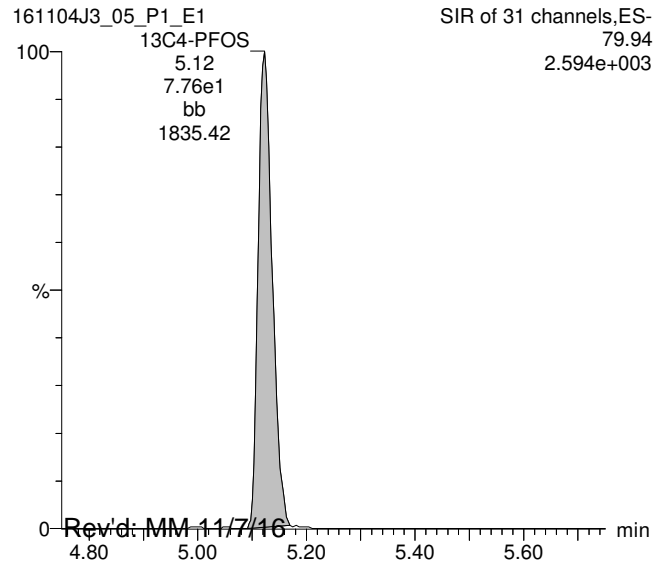
13C3-PFHxS



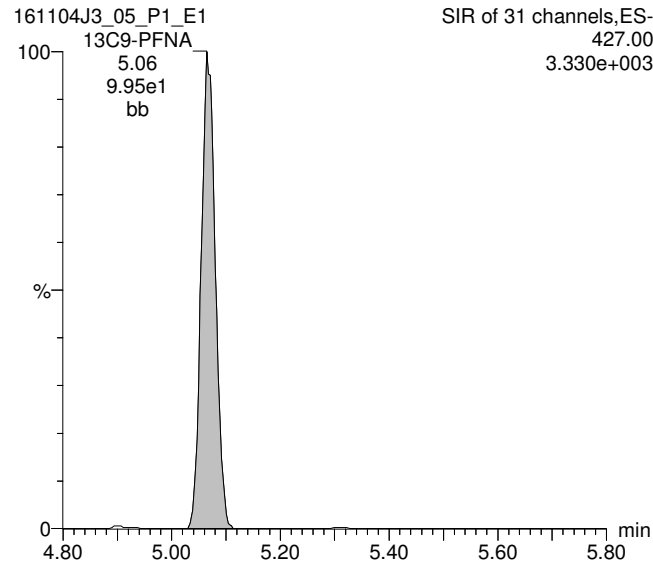
13C8-PFOA



13C4-PFOS



13C9-PFNA



Rev'd: MM 11/7/16

Work Order 1601370

pw 11/7/16

Dataset: U:\Q2.PRO\Results\161104J3\161104J3_05_ugLTarget.qld

Last Altered: Monday, November 07, 2016 11:07:19 Pacific Standard Time

Printed: Monday, November 07, 2016 11:08:43 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	7.907e3	2.200e2		0.124	4.36	3.94	
2	8 PFOA	368.90	1.824e4	1.370e2		0.124	4.74	9.87	
3	15 13C3-PFBS	79.95	1.595e2	3.347e2	0.549	0.124	3.49	0.0877	86.7
4	16 13C2-PFHxA	269.90	1.135e2	3.347e2	0.897	0.124	3.86	0.0382	94.5
5	17 13C4-PFHpA	321.90	2.200e2	3.347e2	0.794	0.124	4.35	0.0837	82.8
6	18 18O2-PFHxS	102.90	2.672e1	1.142e2	0.284	0.124	4.46	0.0833	82.5
7	19 13C2-6:2 FTS	408.90	6.474e2	1.683e2	0.280	0.124	4.69	1.39	1380
8	20 13C2-PFOA	369.90	1.370e2	1.683e2	0.809	0.124	4.74	0.102	101
9	21 13C5-PFNA	422.90	7.976e1	9.950e1	1.020	0.124	5.07	0.0794	78.6
10	22 13C8-PFOS	79.93	5.977e1	7.758e1	0.947	0.124	5.12	0.0822	81.4
11	25 13C4-PFBA	171.90	3.127e2	3.127e2	1.000	0.124	2.08	0.101	100
12	26 13C5-PFHxA	273.00	3.347e2	3.347e2	1.000	0.124	3.86	0.101	100
13	27 13C3-PFHxS	80.01	1.142e2	1.142e2	1.000	0.124	4.46	0.101	100
14	28 13C8-PFOA	375.90	1.683e2	1.683e2	1.000	0.124	4.73	0.101	100
15	29 13C4-PFOS	79.94	7.758e1	7.758e1	1.000	0.124	5.12	0.101	100
16	30 13C9-PFNA	427.00	9.950e1	9.950e1	1.000	0.124	5.06	0.101	100
17	31 13C6-PFDA	474.00	8.907e1	8.907e1	1.000	0.124	5.35	0.101	100
18	32 Total PFBS	79.90		1.595e2		0.124		1.44	
19	33 Total PFHxS	79.91		2.672e1		0.124		23.7	
20	34 Total PFOA	368.90		1.370e2		0.124		10.1	
21	35 Total PFOS	79.92		5.977e1		0.124		76.1	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161104J3\161104J3_05_ugLTarget.qld

Last Altered: Monday, November 07, 2016 11:07:19 Pacific Standard Time

Printed: Monday, November 07, 2016 11:08:43 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.49	2374.566	159.476	1.4
2	32 Total PFBS	79.90	3.37	40.594	159.476	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	33 Total PFHxS	79.91	4.62	2.043	26.718	
2	6 PFHxS	79.91	4.46	16630.225	26.718	19.7
3	33 Total PFHxS	79.91	4.37	3547.976	26.718	4.0
4	33 Total PFHxS	79.91	4.28	10.860	26.718	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.74	18236.211	136.978	9.9
2	34 Total PFOA	368.90	4.65	1938.686	136.978	0.2

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	35 Total PFOS	79.92	4.94	607.559	59.771	1.4
2	10 PFOS	79.92	5.13	35058.691	59.771	49.2
3	35 Total PFOS	79.92	5.02	17931.727	59.771	25.4

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Last Altered: Monday, November 07, 2016 11:07:19 Pacific Standard Time

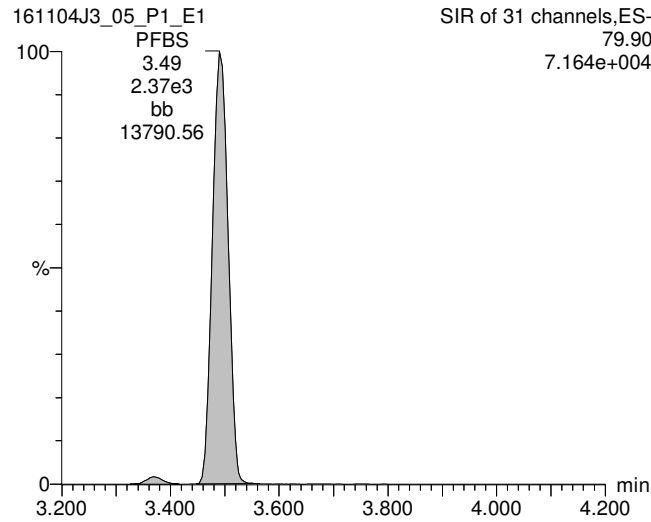
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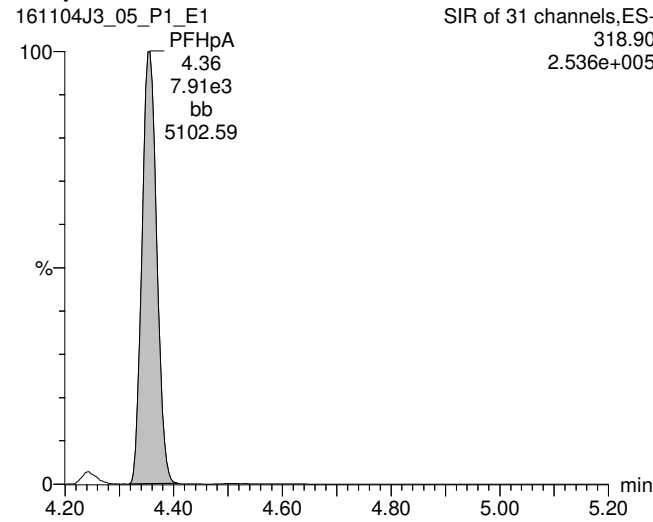
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ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04, Instrument: , Lab: ©PE-SCIEX, User: sciex

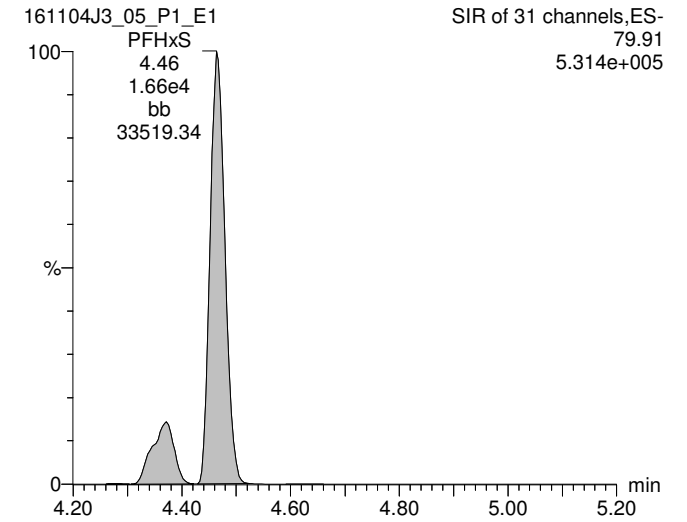
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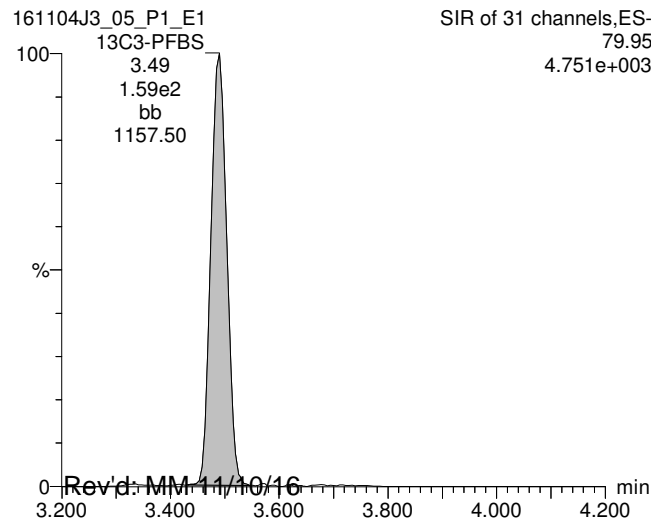
PFHpA



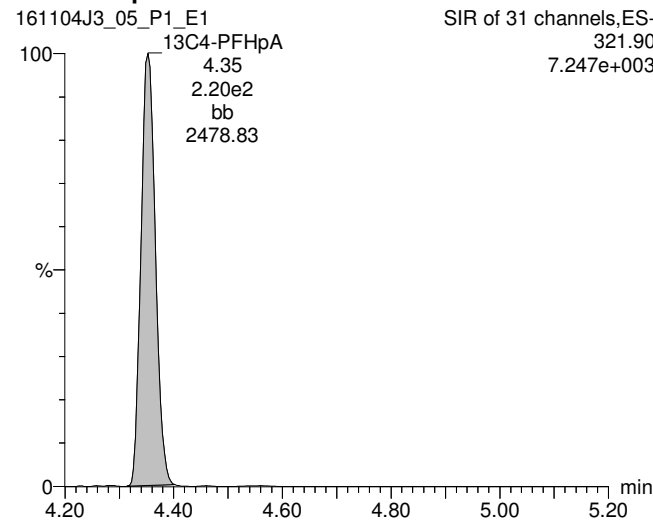
Total PFHxS



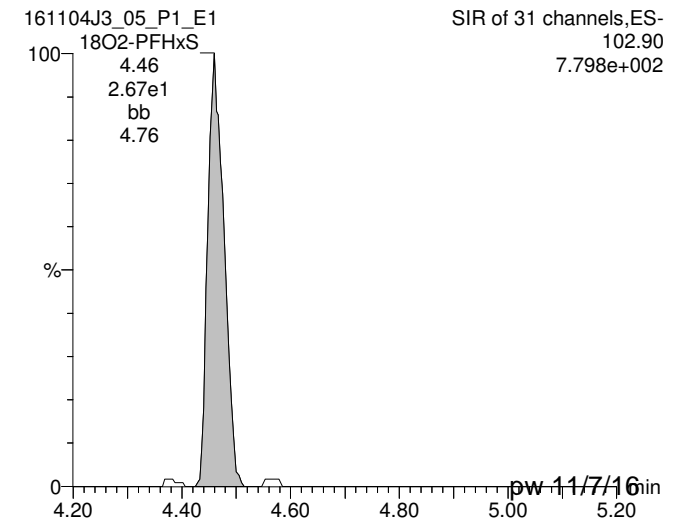
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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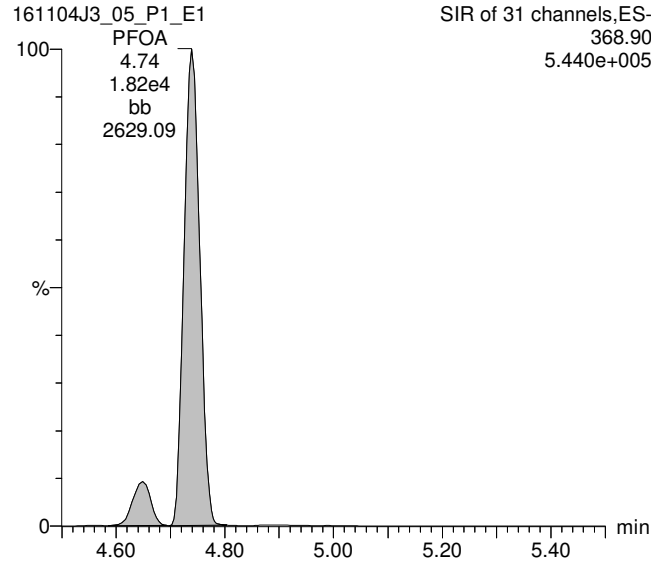
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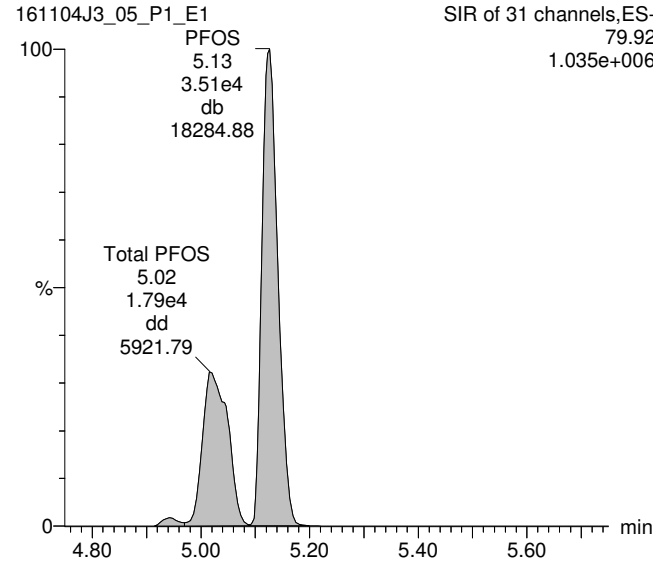
Printed: Monday, November 07, 2016 11:08:43 Pacific Standard Time

ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04, Instrument: , Lab: ©PE-SCIEX, User: sciex

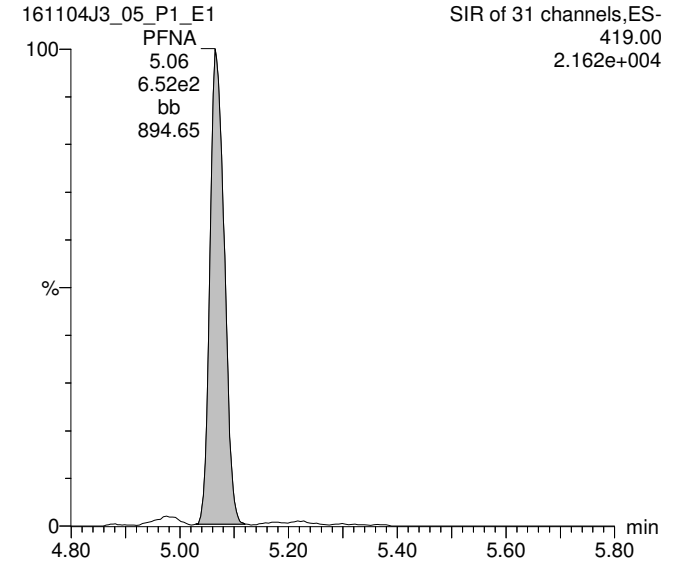
Total PFOA



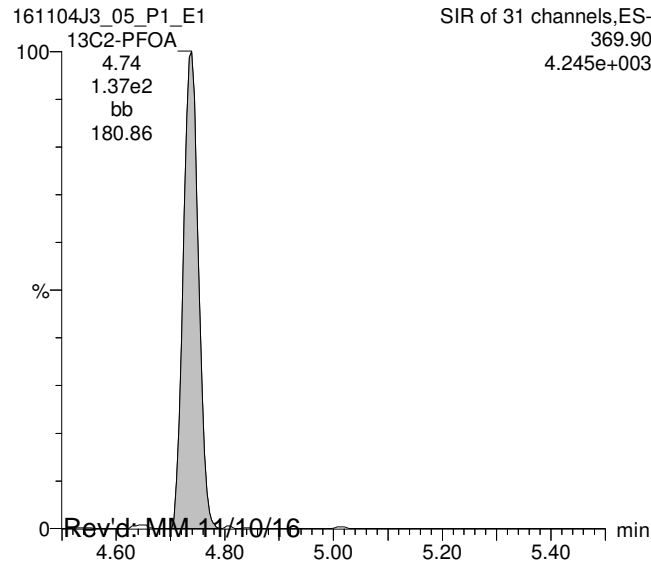
Total PFOS



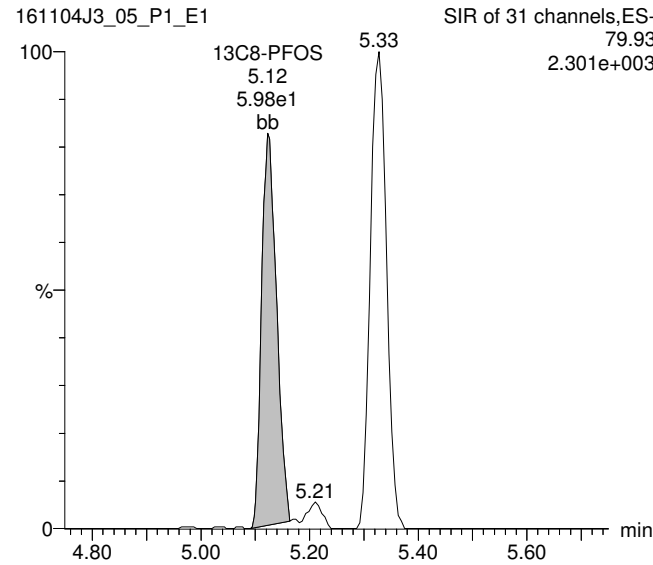
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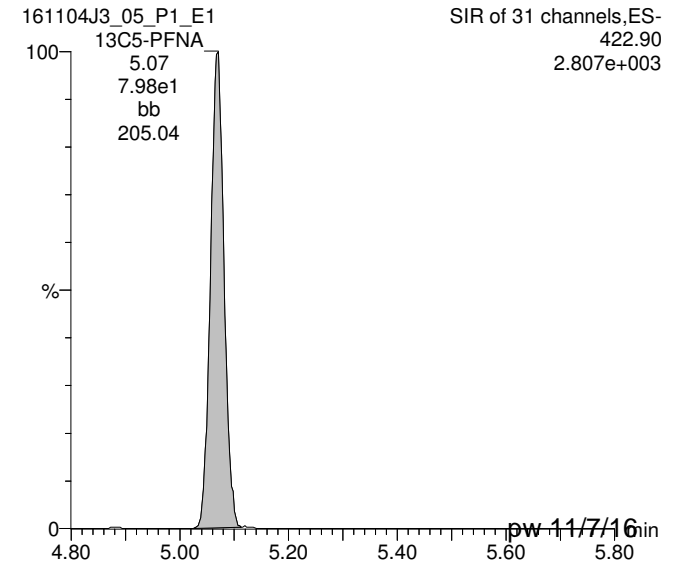
13C2-PFOA



13C8-PFOS



13C5-PFNA



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pw-11/7/16

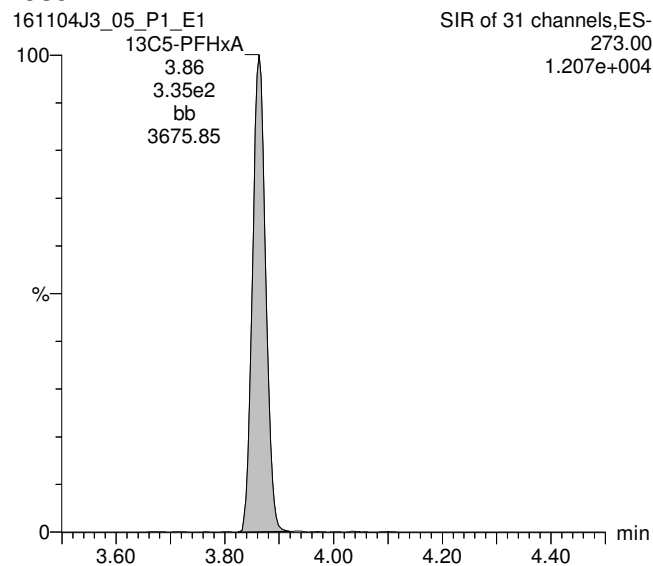
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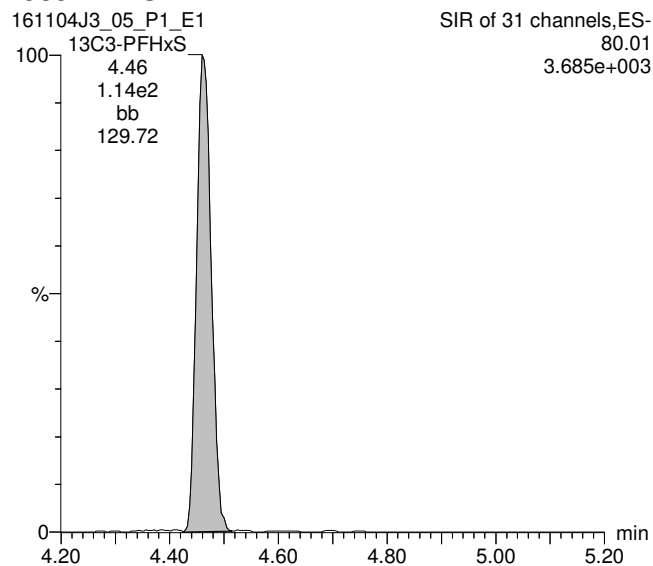
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ID: 1601370-02@40x, Description: OW11-MW9P-1016, Name: 161104J3_05.wiff, Date: 04-Nov-2016, Time: 16:13:04, Instrument: , Lab: ©PE-SCIEX, User: sciex

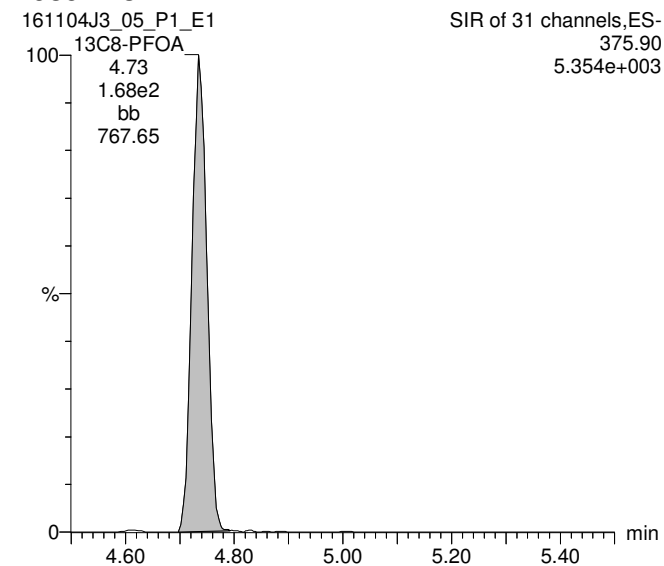
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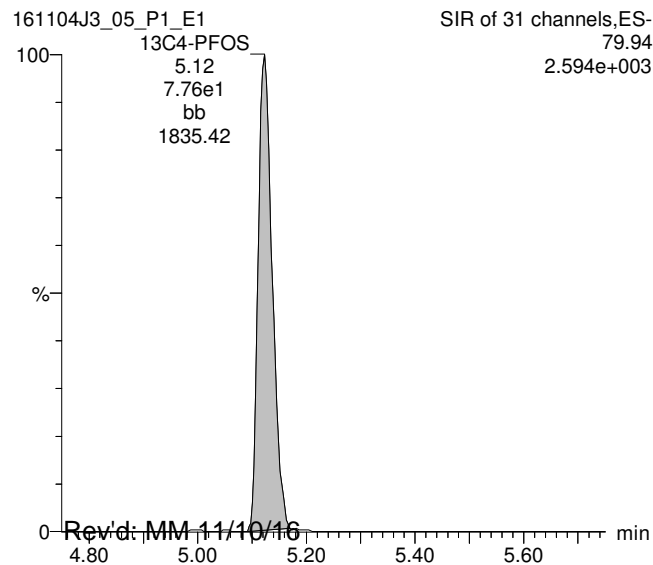
13C3-PFHxS



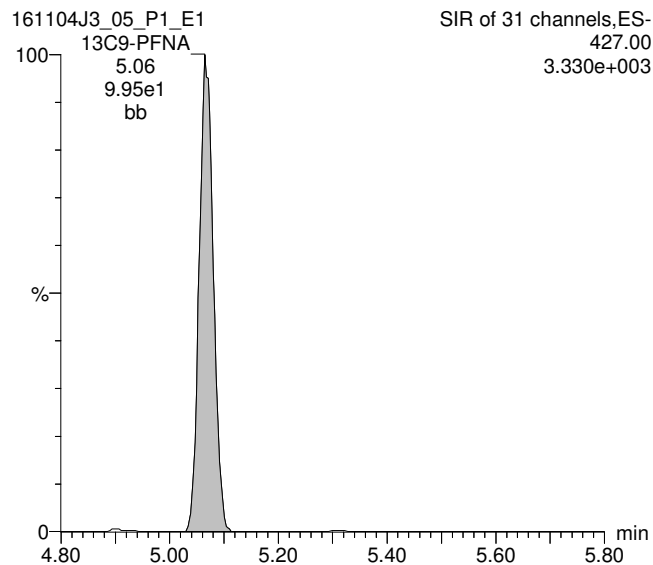
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-50.qld

Last Altered: Thursday, November 03, 2016 13:46:49 Pacific Daylight Time

Printed: Monday, November 07, 2016 21:16:47 Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-03 OW11-MW8-1016 0.125, Description: OW11-MW8-1016, Name: 161101G1_50, Date: 02-Nov-2016, Time: 00:17:49

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	7.944e4	3.419e3		0.123	2.99	1710	*
2	5 PFHpA	363 > 318.9	2.401e5	9.565e3		0.123	3.85	1800	*
3	6 PFHxS	398.9 > 79.6	3.741e5	2.015e3		0.123	3.98	12800	*
4	8 PFOA	413 > 368.7	5.636e5	1.131e4		0.123	4.27	5570	*
5	9 PFOS	499 > 79.9	1.651e5	2.000e3		0.123	4.67	9760	*
6	10 PFNA	463 > 418.8	2.182e4	8.068e3		0.123	4.62	151	
7	15 13C3-PFBS	302.0 > 98.8	3.419e3	9.695e3	0.209	0.123	2.99	172	169 *
8	16 13C2-PFHxA	315 > 269.8	2.884e3	9.695e3	0.655	0.123	3.35	46.2	113
9	17 13C4-PFHpA	367.2 > 321.8	9.565e3	3.112e3	1.904	0.123	3.85	164	161 *
10	18 18O2-PFHxS	403 > 102.6	2.015e3	3.112e3	0.580	0.123	3.97	114	112 *
11	19 13C2-6:2 FTS	429.1 > 408.9	2.747e4	4.848e3	0.896	0.123	4.22	643	632
12	20 13C2-PFOA	414.9 > 369.7	1.131e4	5.081e3	2.326	0.123	4.27	97.4	95.7 *
13	21 13C8-PFOS	507.0 > 79.9	2.000e3	2.686e3	0.982	0.123	4.67	77.1	75.8 *
14	22 13C5-PFNA	468.2 > 422.9	8.068e3	1.035e4	1.038	0.123	4.62	76.4	75.1
15	27 13C5-PFHxA	318.0 > 272.9	9.695e3	9.695e3	1.000	0.123	3.35	102	100
16	28 13C3-PFHxS	401.9 > 79.9	3.112e3	3.112e3	1.000	0.123	3.98	102	100
17	29 13C8-PFOA	421.3 > 376	5.081e3	5.081e3	1.000	0.123	4.27	102	100
18	30 13C4-PFOS	503.0 > 79.9	2.686e3	2.686e3	1.000	0.123	4.67	102	100
19	31 13C9-PFNA	472.2 > 426.9	1.035e4	1.035e4	1.000	0.123	4.61	102	100
20	32 13C6-PFDA	519.1 > 473.7	1.007e4	1.007e4	1.000	0.123	4.90	102	100
21	33 Total PFBS	299 > 79.7		2.015e3		0.123		1770	
22	34 Total PFHxS	398.9 > 79.6		2.015e3		0.123		17200	
23	35 Total PFOA	413 > 368.7		1.131e4		0.123		7190	
24	36 Total PFOS	499 > 79.9		2.000e3		0.123		24300	

*see dil

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-50.qld

Last Altered: Thursday, November 03, 2016 13:46:49 Pacific Daylight Time

Printed: Monday, November 07, 2016 21:16:47 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-03 OW11-MW8-1016 0.125, Description: OW11-MW8-1016, Name: 161101G1_50, Date: 02-Nov-2016, Time: 00:17:49

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	299 > 79.7	2.99	79438.398	3418.782	1707.8
2	33 Total PFBS	299 > 79.7	2.88	1759.257	2015.266	64.7

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6	3.98	374107.875	2015.266	12814.8
2	34 Total PFHxS	398.9 > 79.6	3.88	91743.531	2015.266	3142.7
3	34 Total PFHxS	398.9 > 79.6	3.84	35864.406	2015.266	1228.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7	4.27	563571.375	11314.198	5568.3
2	35 Total PFOA	413 > 368.7	4.18	163884.438	11314.198	1619.1

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	36 Total PFOS	499 > 79.9	4.46	22994.889	2000.180	1359.4
2	9 PFOS	499 > 79.9	4.67	165135.656	2000.180	9759.9
3	36 Total PFOS	499 > 79.9	4.59	53835.855	2000.180	3182.1
4	36 Total PFOS	499 > 79.9	4.56	157957.438	2000.180	9335.6
5	36 Total PFOS	499 > 79.9	4.48	10744.695	2000.180	635.4

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-50.qld

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Printed: Monday, November 07, 2016 21:16:47 Pacific Standard Time

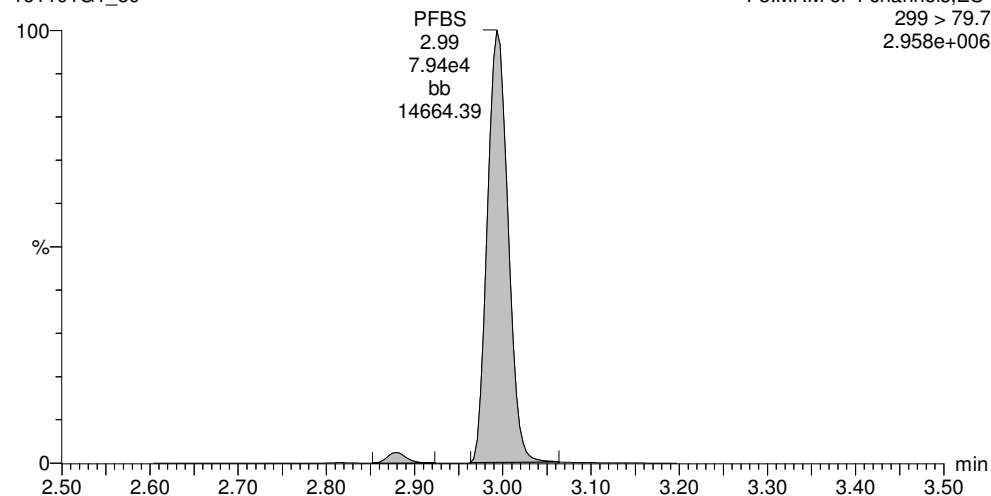
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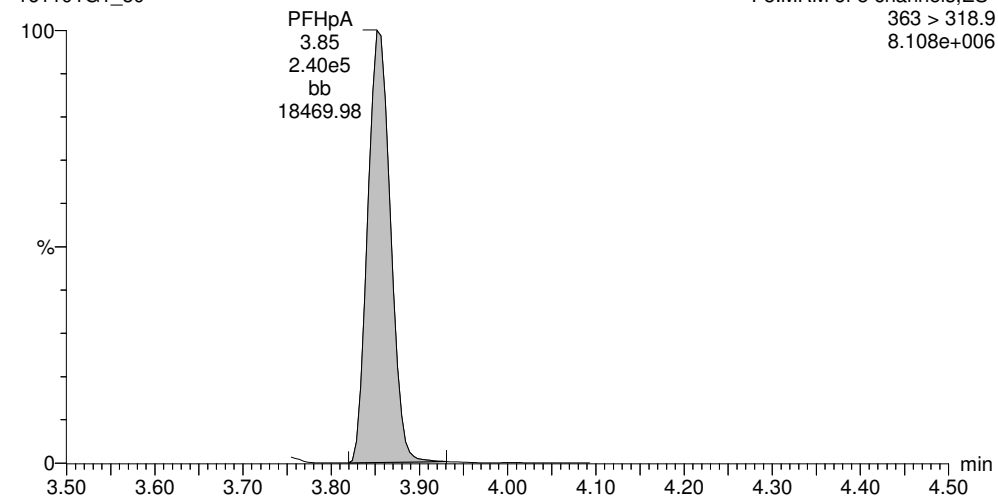
Total PFBS

161101G1_50



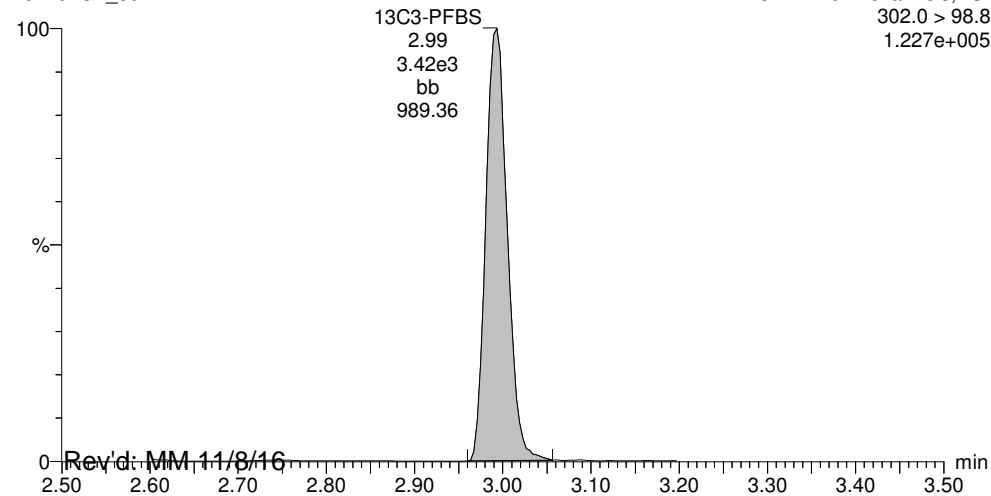
PFHpA

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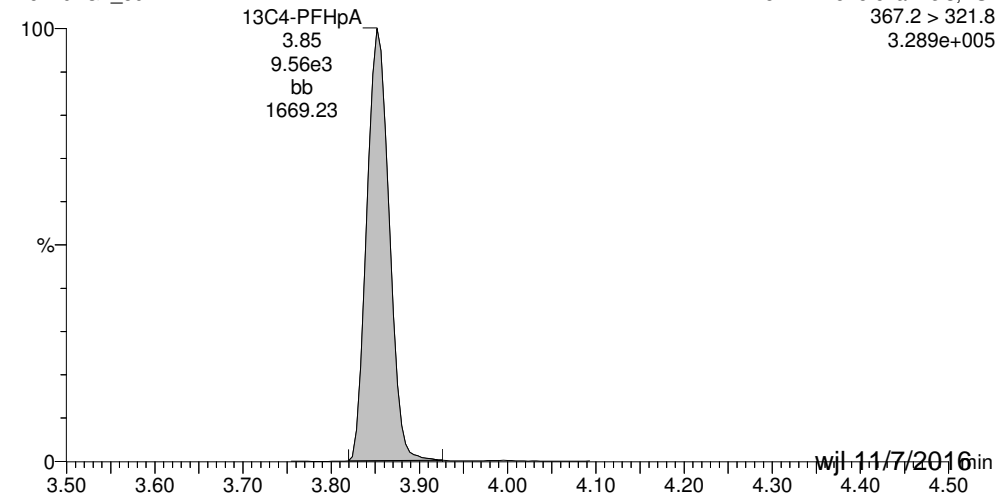
13C3-PFBS

161101G1_50



13C4-PFHpA

161101G1_50



Rev'd: MM, 11/8/16

wjl, 11/7/2016

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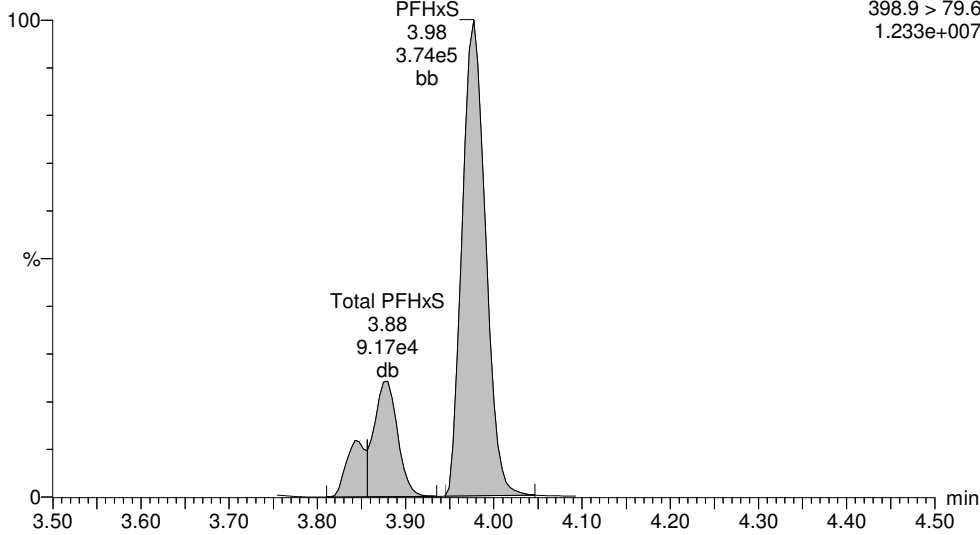
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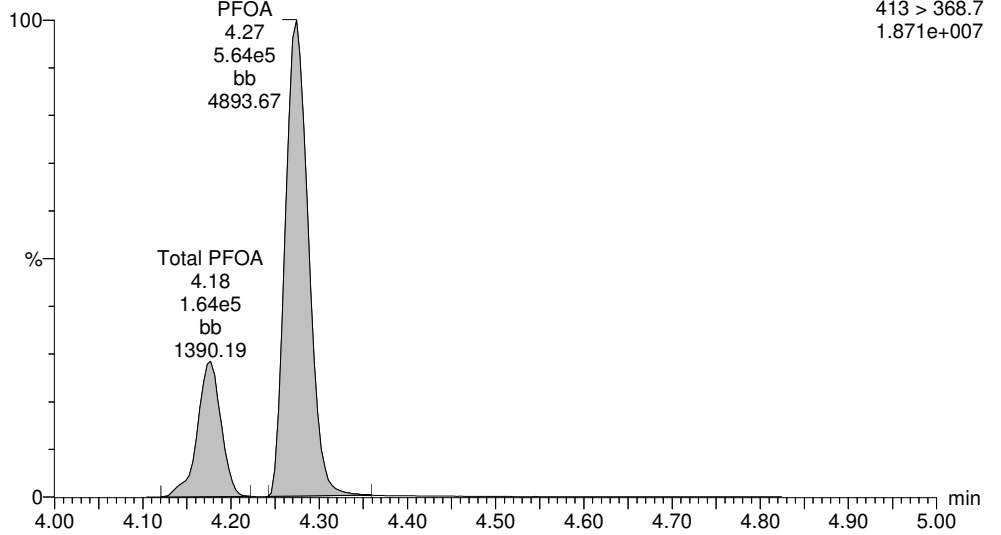
Total PFHxS

161101G1_50



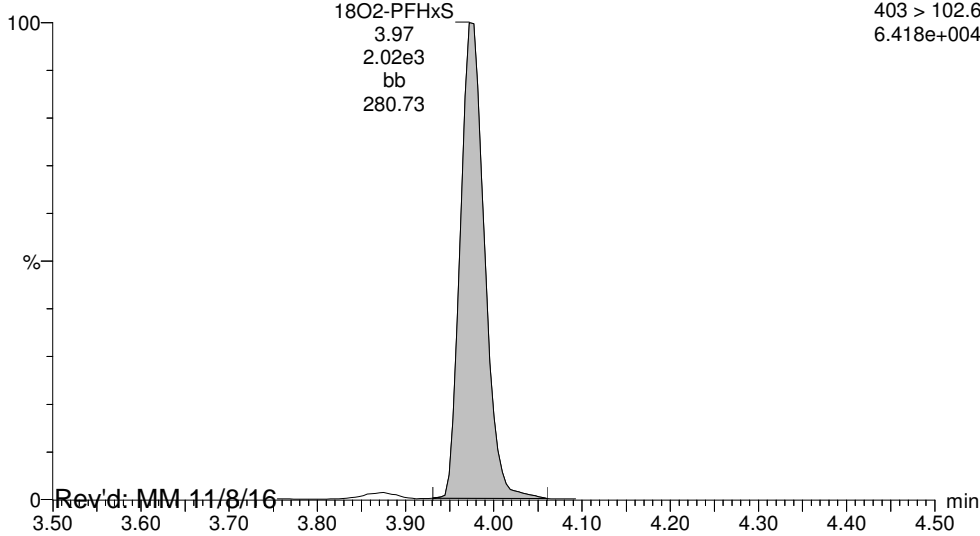
Total PFOA

161101G1_50



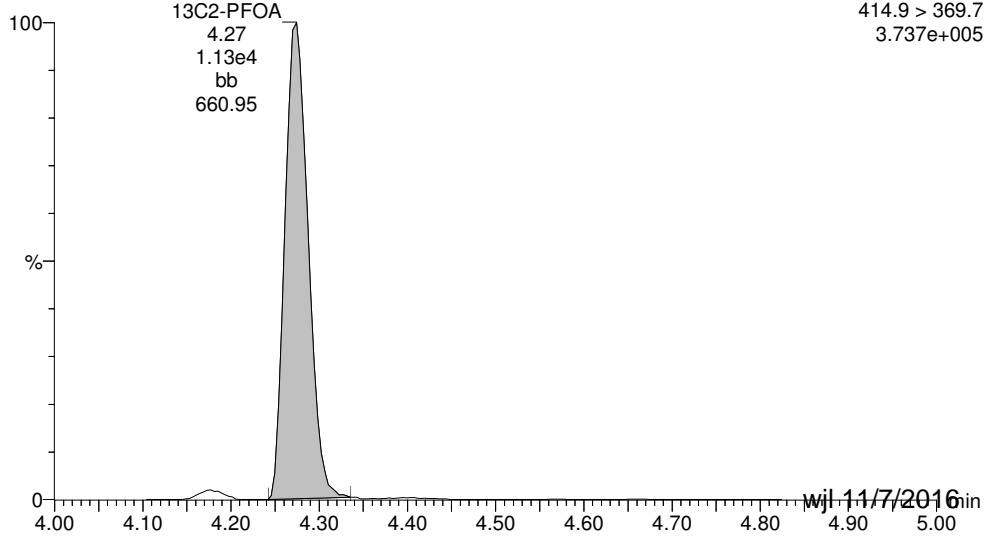
18O2-PFHxS

161101G1_50



13C2-PFOA

161101G1_50



Rev'd: MM 11/8/16

wjl 11/7/2016

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-50.qld

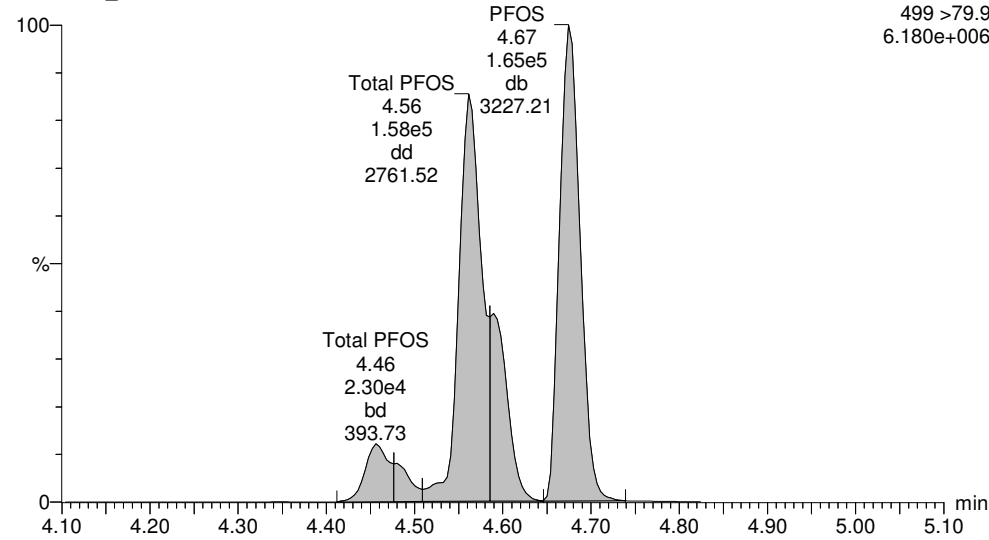
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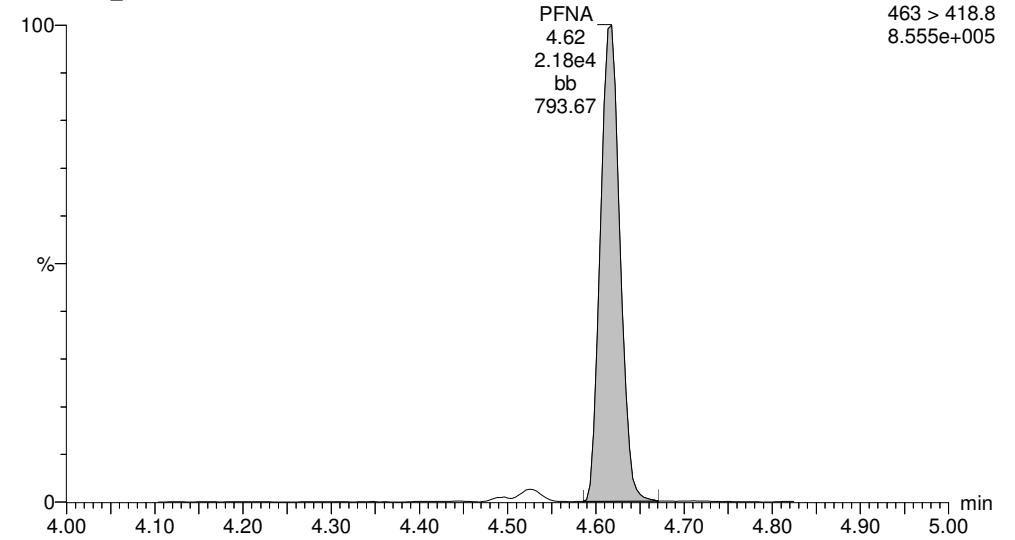
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161101G1_50



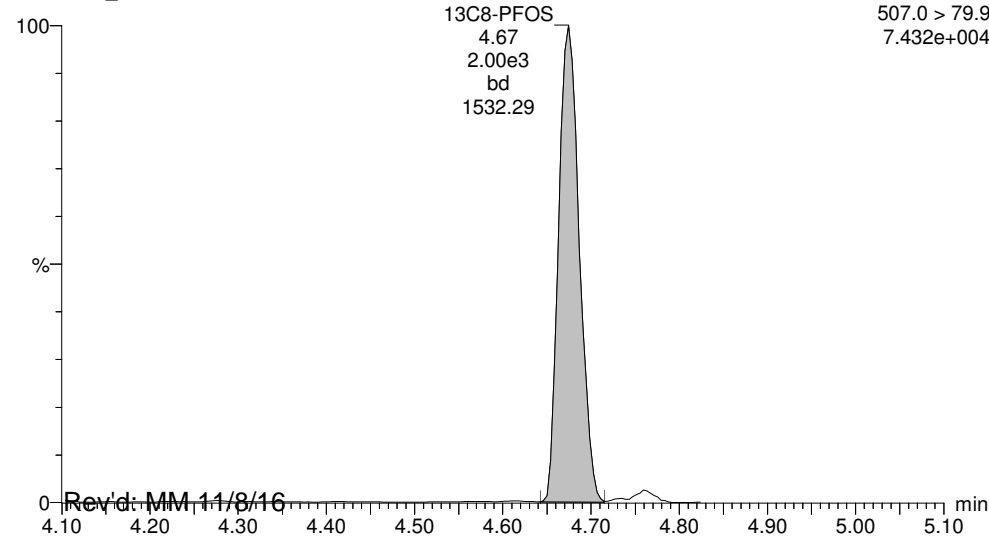
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161101G1_50



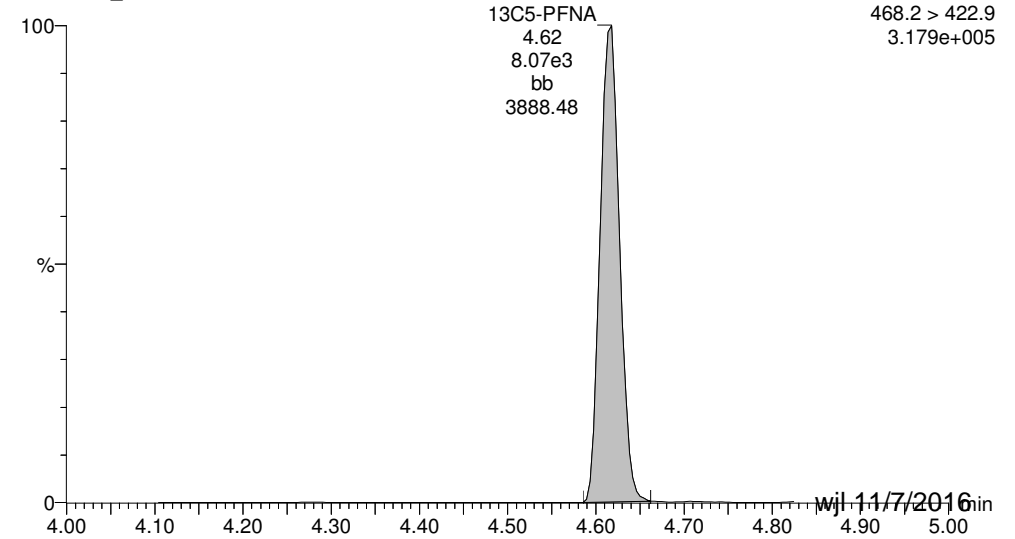
13C8-PFOS

161101G1_50



13C5-PFNA

161101G1_50



Rev'd: MM 11/8/16

wjl 11/7/2016

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-50.qld

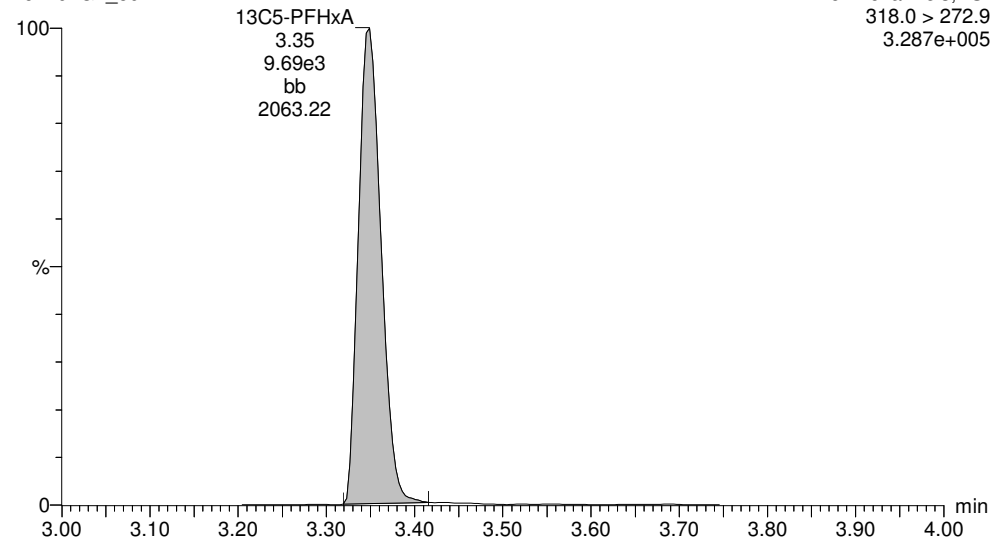
Last Altered: Thursday, November 03, 2016 13:46:49 Pacific Daylight Time

Printed: Monday, November 07, 2016 21:16:47 Pacific Standard Time

ID: 1601370-03 OW11-MW8-1016 0.125, Description: OW11-MW8-1016, Name: 161101G1_50, Date: 02-Nov-2016, Time: 00:17:49, Instrument: , Lab: , User:

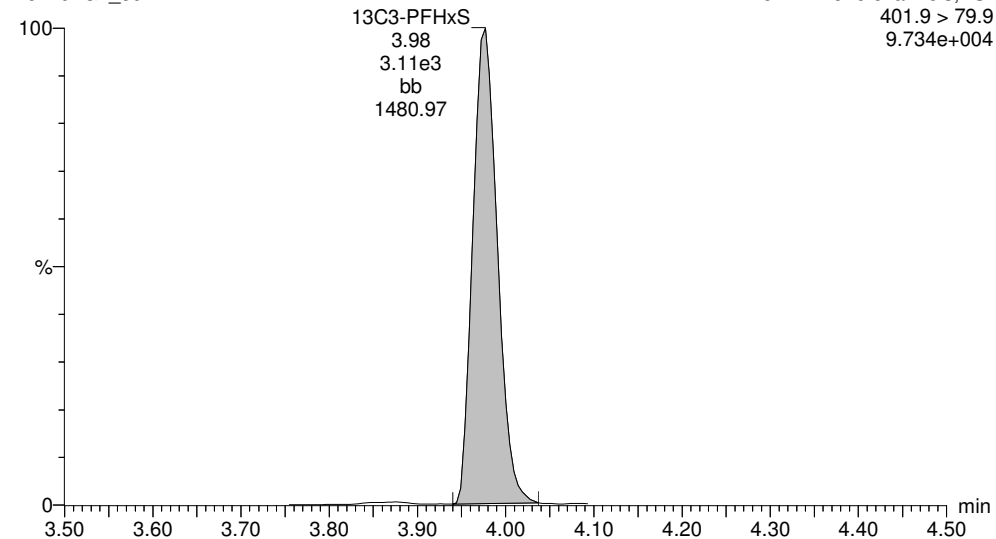
13C5-PFHxA

161101G1_50



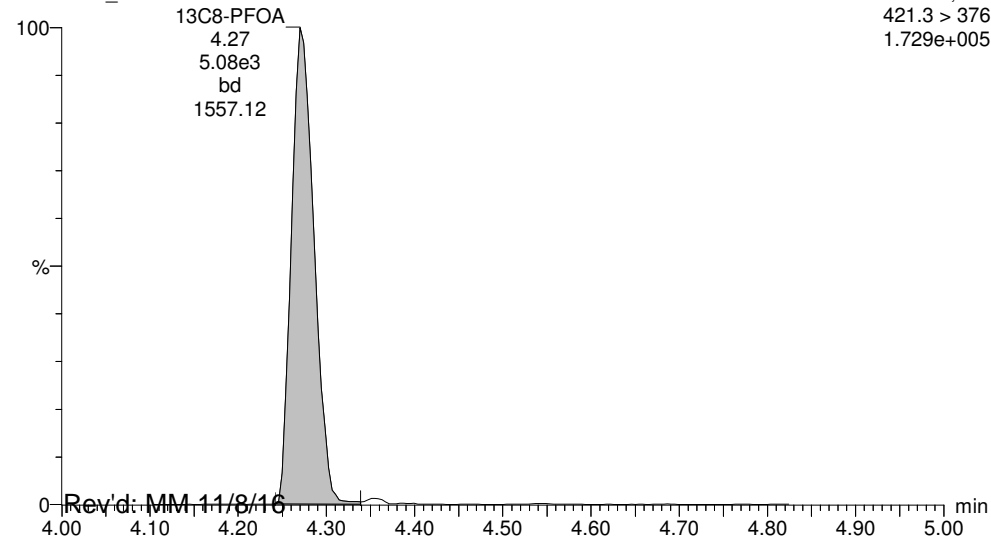
13C3-PFHxS

161101G1_50



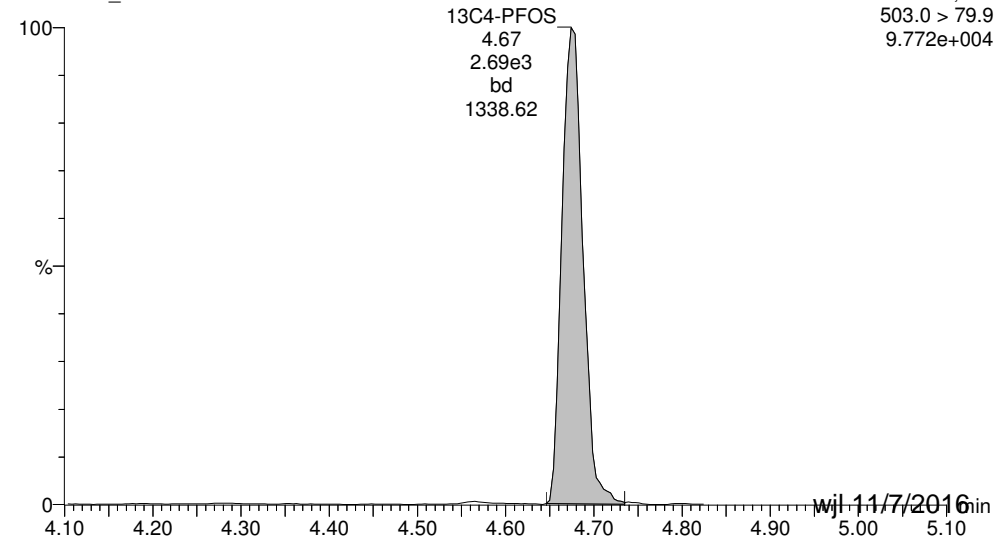
13C8-PFOA

161101G1_50



13C4-PFOS

161101G1_50



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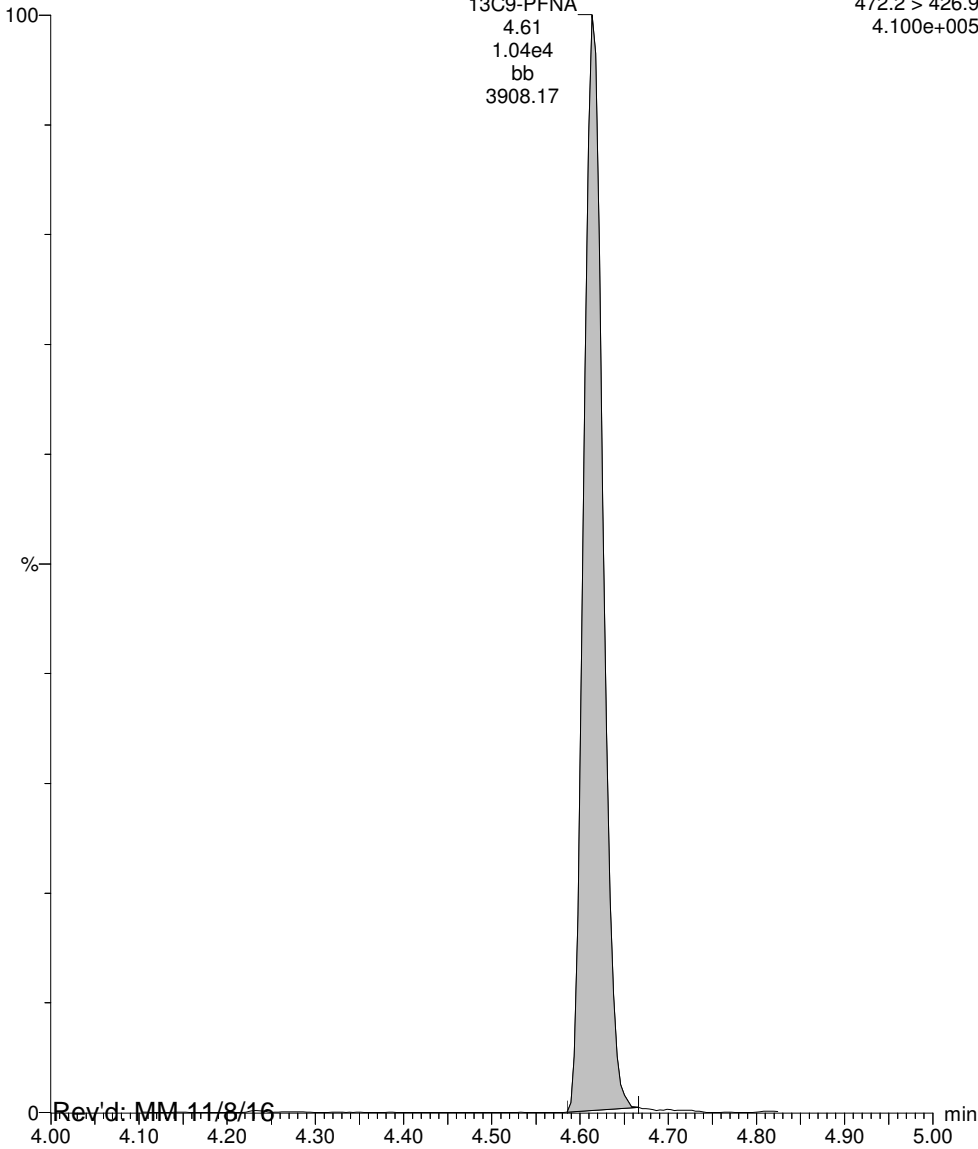
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13C9-PFNA

161101G1_50

13C9-PFNA
4.61
1.04e4
bb
3908.17

F6:MRM of 16 channels,ES-
472.2 > 426.9
4.100e+005



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_15_ngLTarget.qld

Last Altered: Friday, November 04, 2016 15:34:31 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:36:55 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-03@20x, Description: OW11-MW8-1016, Name: 161102J4_15.wiff, Date: 02-Nov-2016, Time: 22:49:19

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	5.187e3	3.973e2		0.123	3.46	1670	
2	5 PFHpA	318.90	8.580e3	5.188e2		0.123	4.33	2630	
3	6 PFHxS	79.91	2.505e4	5.928e1		0.123	4.44	13700	
4	8 PFOA	368.90	2.312e4	3.011e2		0.123	4.72		
5	9 PFNA	419.00	2.913e2	2.204e2		0.123	5.04	159	
6	10 PFOS	79.92	1.039e4	8.510e1		0.123	5.10	10200	
7	15 13C3-PFBS	79.95	3.973e2	8.310e2	0.549	0.123	3.46	88.5	87.0
8	16 13C2-PFHxA	269.90	2.764e2	8.310e2	0.897	0.123	3.84	37.7	92.7
9	17 13C4-PFHpA	321.90	5.188e2	8.310e2	0.794	0.123	4.33	80.0	78.6
10	18 18O2-PFHxS	102.90	5.928e1	2.337e2	0.284	0.123	4.44	90.9	89.4
11	19 13C2-6:2 FTS	408.90	1.366e3	4.218e2	0.280	0.123	4.67	1180	1160
12	20 13C2-PFOA	369.90	3.011e2	4.218e2	0.809	0.123	4.72	89.7	88.2
13	21 13C5-PFNA	422.90	2.204e2	3.522e2	1.020	0.123	5.04	62.4	61.3
14	22 13C8-PFOS	79.93	8.510e1	1.243e2	0.947	0.123	5.10	73.5	72.3
15	25 13C4-PFBA	171.90	8.114e2	8.114e2	1.000	0.123	2.03	102	100
16	26 13C5-PFHxA	273.00	8.310e2	8.310e2	1.000	0.123	3.84	102	100
17	27 13C3-PFHxS	80.01	2.337e2	2.337e2	1.000	0.123	4.44	102	100
18	28 13C8-PFOA	375.90	4.218e2	4.218e2	1.000	0.123	4.72	102	100
19	29 13C4-PFOS	79.94	1.243e2	1.243e2	1.000	0.123	5.10	102	100
20	30 13C9-PFNA	427.00	3.522e2	3.522e2	1.000	0.123	5.04	102	100
21	31 13C6-PFDA	474.00	1.525e2	1.525e2	1.000	0.123	5.32	102	100
22	32 Total PFBS	79.90		3.973e2		0.123		1700	
23	33 Total PFHxS	79.91		5.928e1		0.123		16900	
24	34 Total PFOA	368.90		3.011e2		0.123		1520	
25	35 Total PFOS	79.92		8.510e1		0.123		18800	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_15_ngLTarget.qld

Last Altered: Friday, November 04, 2016 15:34:31 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:36:55 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-03@20x, Description: OW11-MW8-1016, Name: 161102J4_15.wiff, Date: 02-Nov-2016, Time: 22:49:19

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	5187.000	397.264	1673.6
2	32 Total PFBS	79.90	3.34	91.411	397.264	29.0

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	25047.426	59.276	13653.6
2	33 Total PFHxS	79.91	4.35	5937.700	59.276	3236.5

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	23122.291	301.138	
2	34 Total PFOA	368.90	4.63	3458.990	301.138	1518.0

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.10	10391.028	85.096	10190.4
2	35 Total PFOS	79.92	5.00	8809.416	85.096	8639.4

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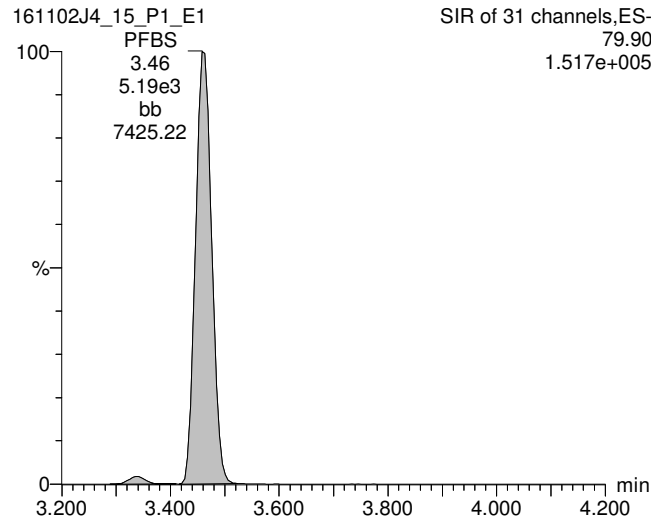
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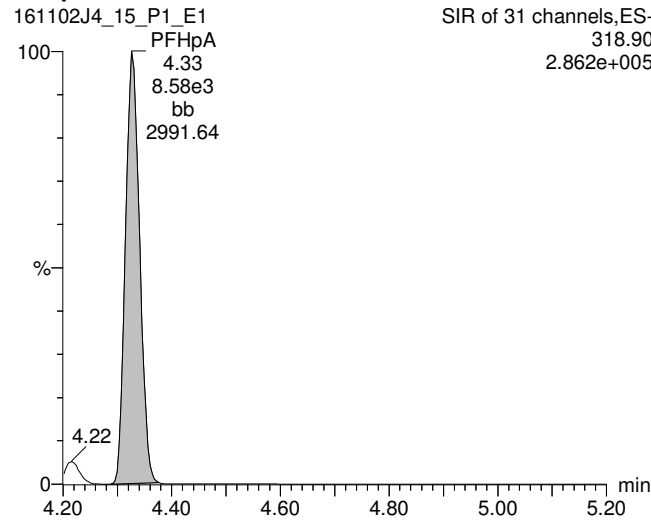
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ID: 1601370-03@20x, Description: OW11-MW8-1016, Name: 161102J4_15.wiff, Date: 02-Nov-2016, Time: 22:49:19, Instrument: , Lab: ©PE-SCIEX, User: sciex

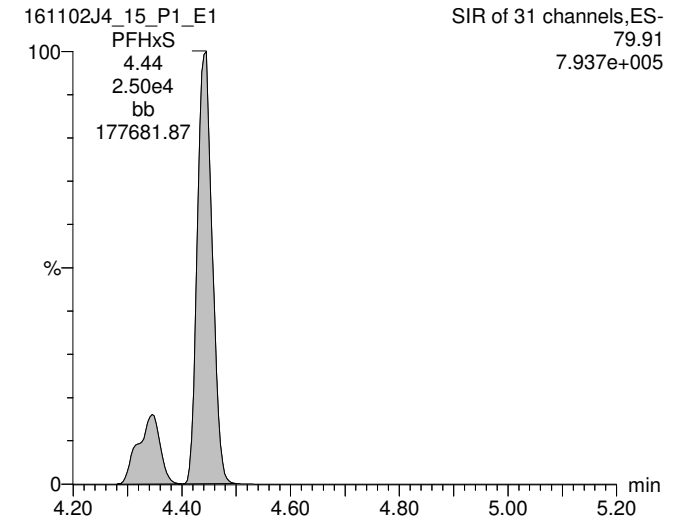
Total PFBS



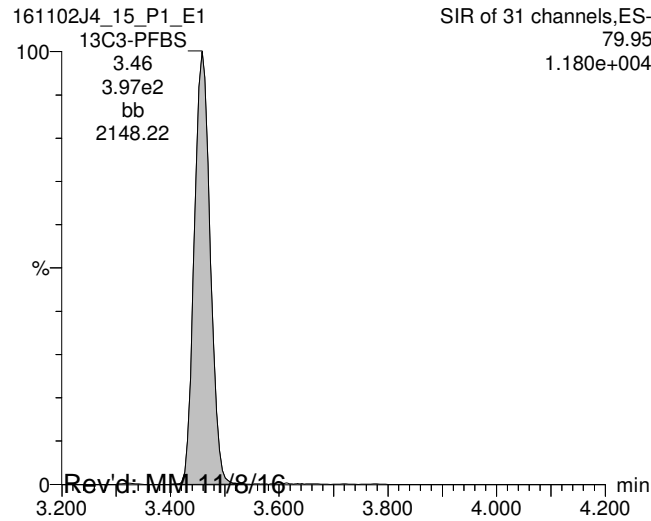
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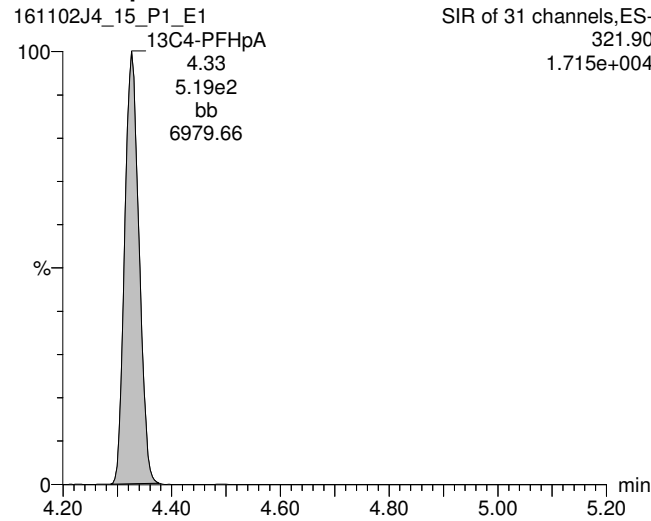
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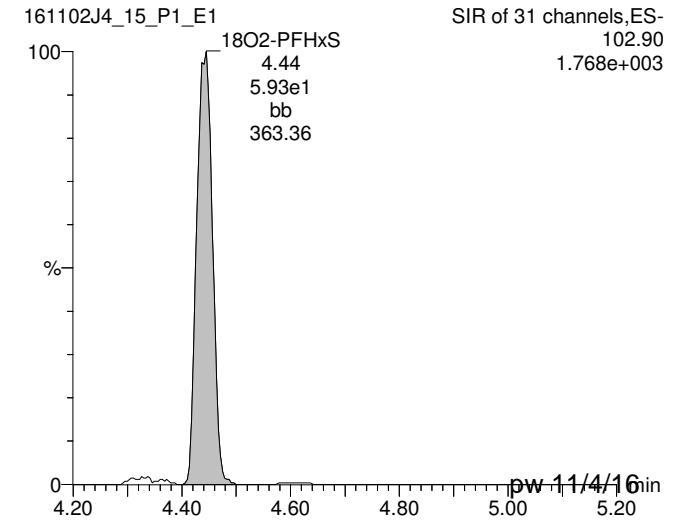
13C3-PFBS



13C4-PFHpA

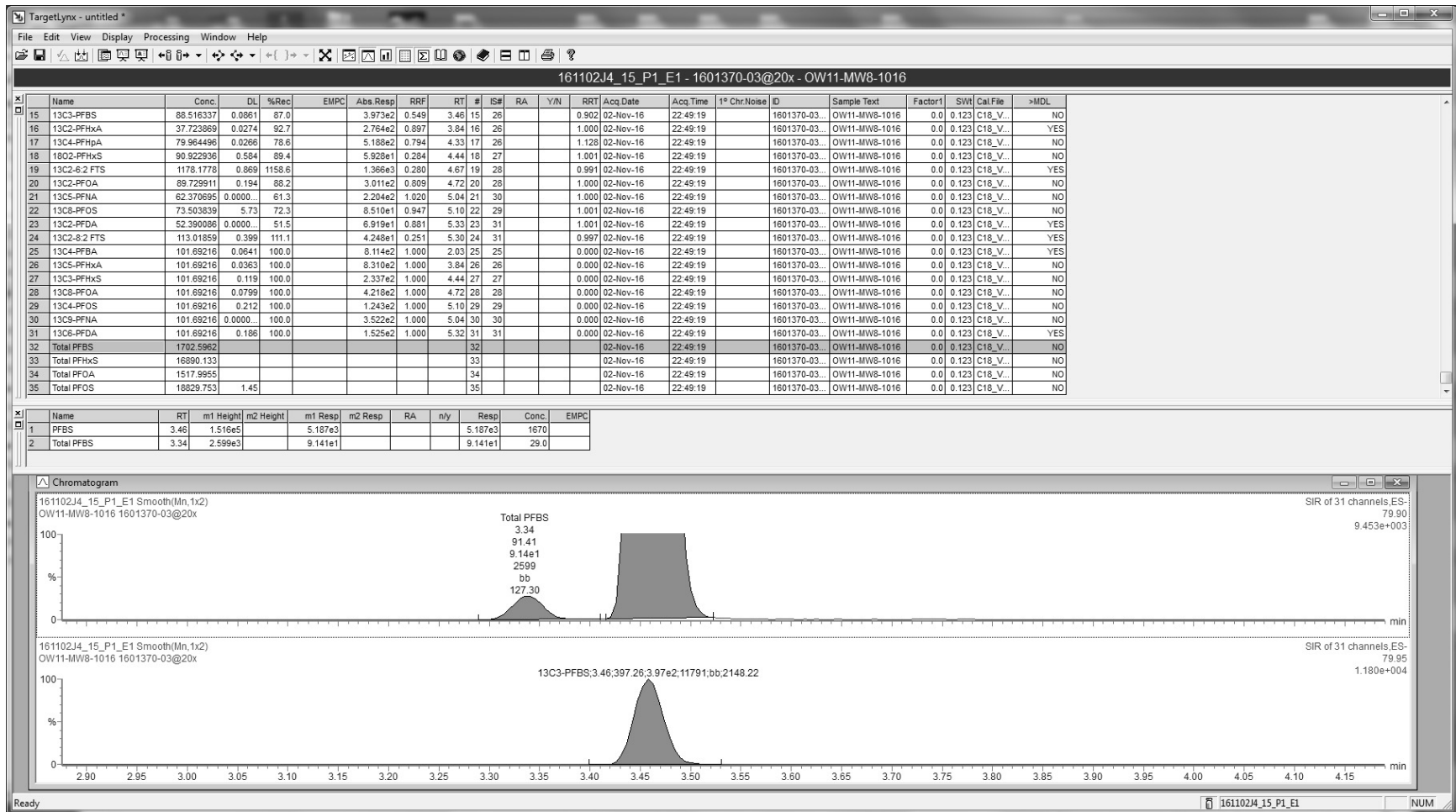


18O2-PFHxS



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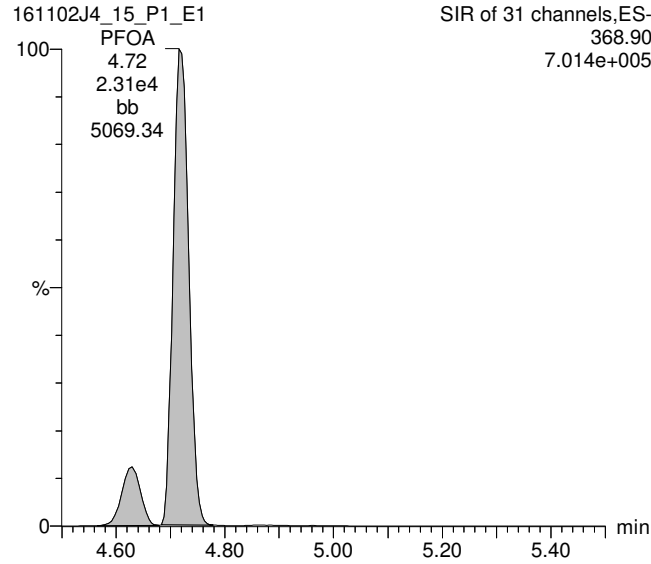
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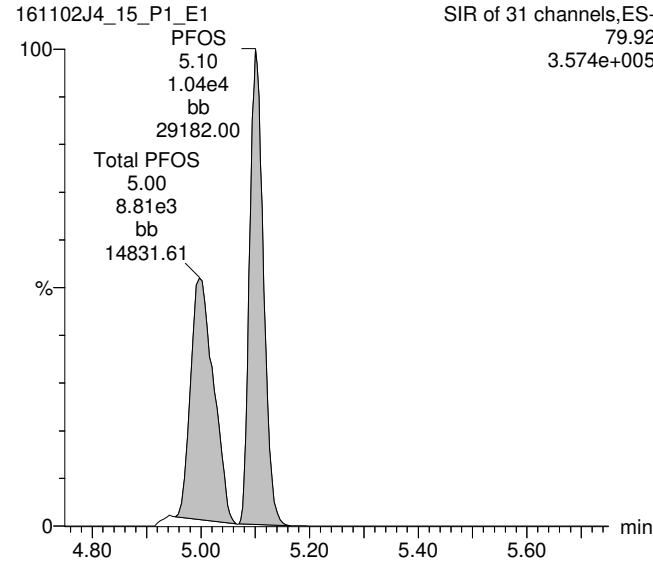
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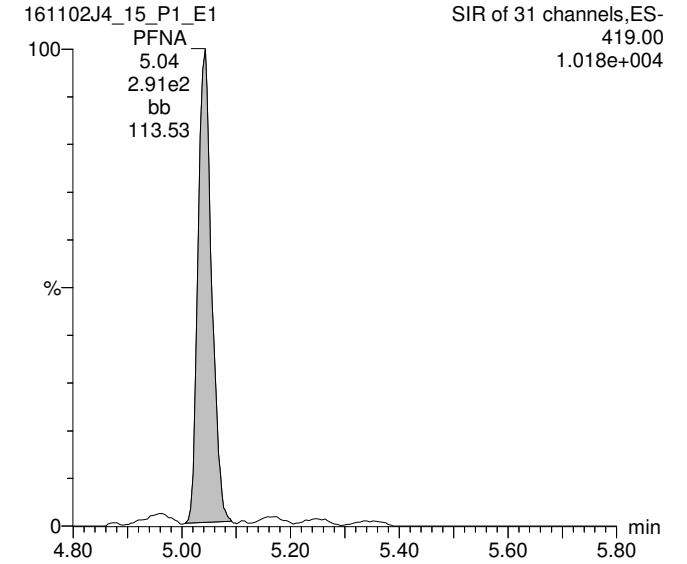
Total PFOA



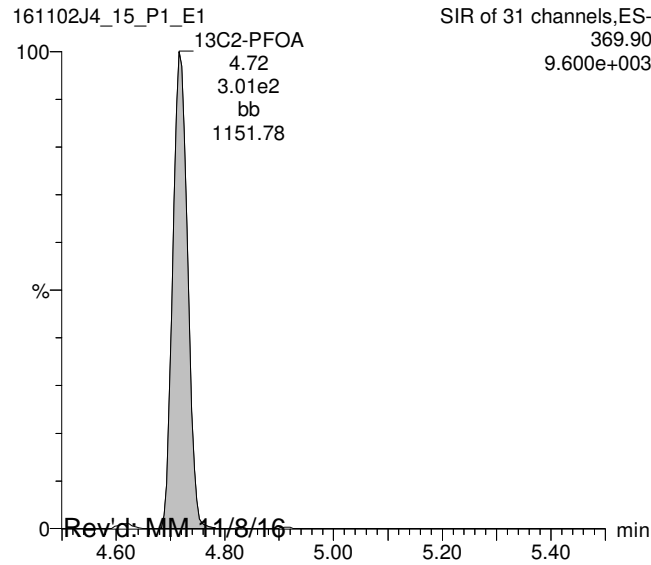
Total PFOS



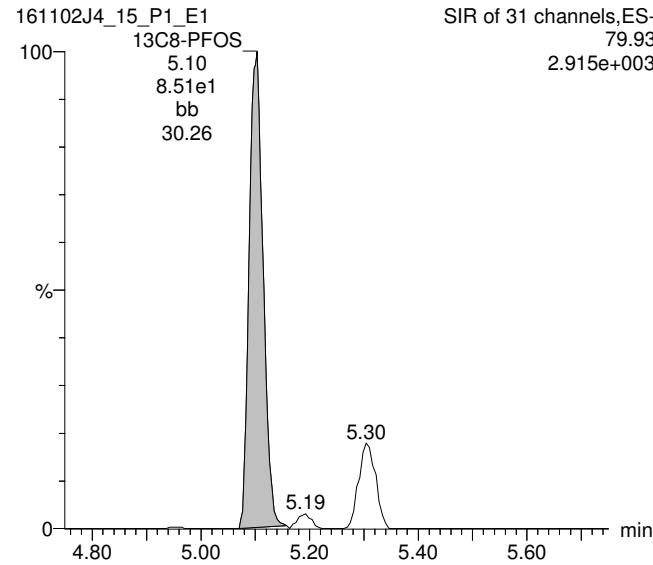
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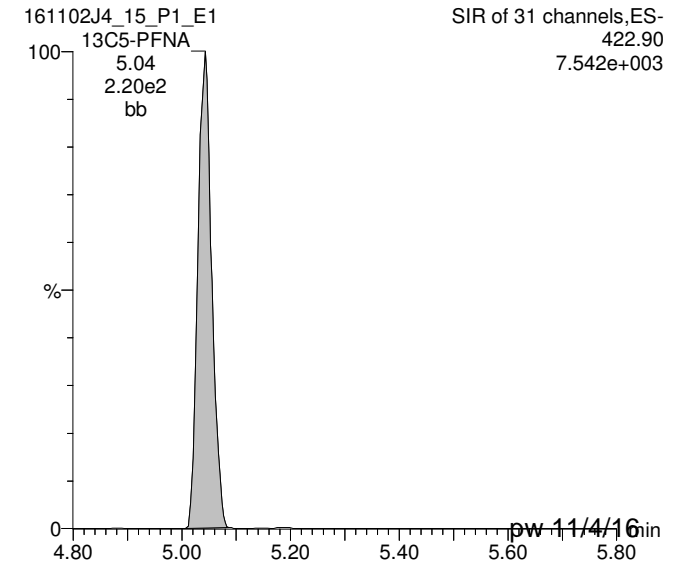
13C2-PFOA



13C8-PFOS



13C5-PFNA



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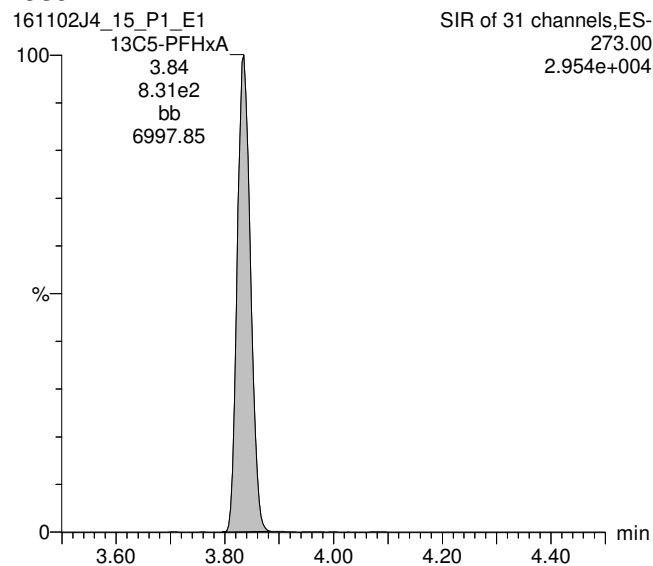
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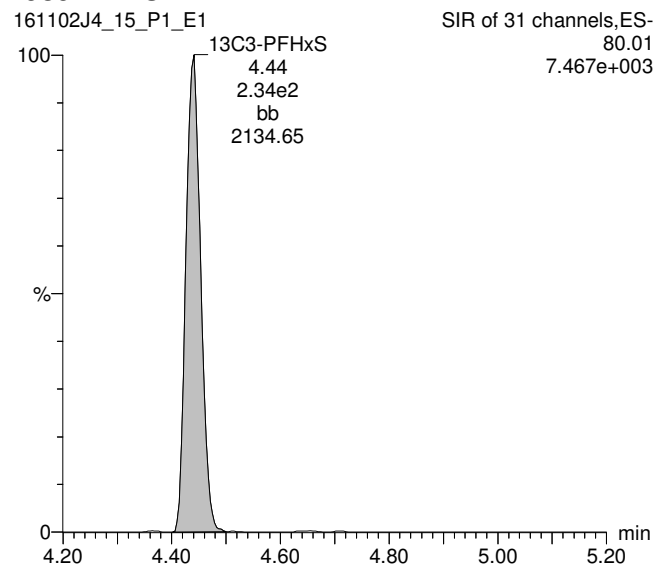
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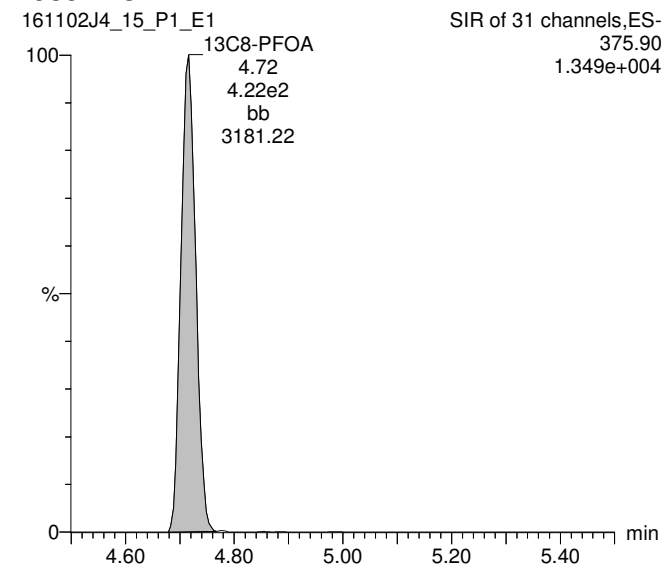
13C5-PFHxA



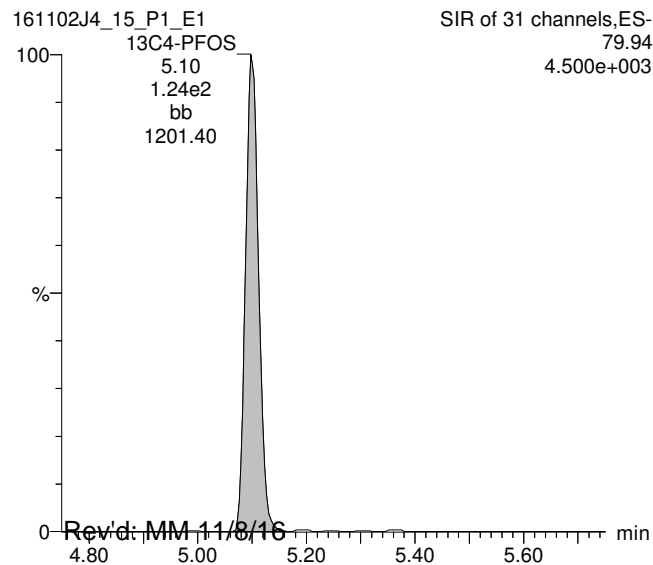
13C3-PFHxS



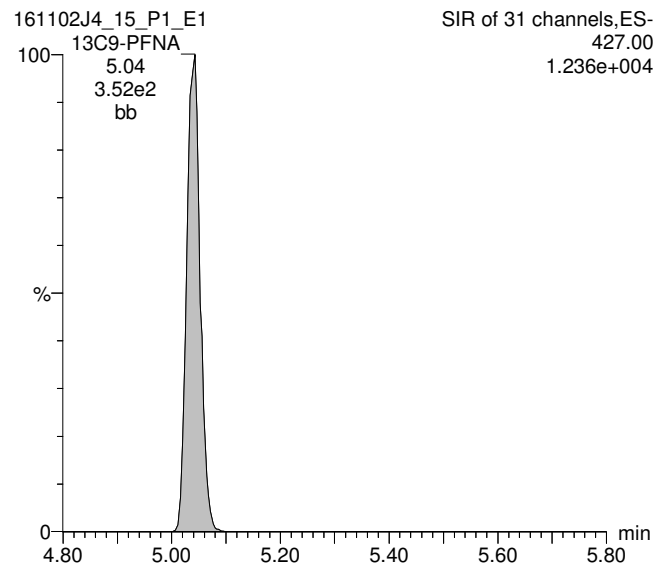
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_15_ugLTarget.qld

Last Altered: Friday, November 04, 2016 15:47:30 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:04:53 Pacific Daylight Time

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ID: 1601370-03@20x, Description: OW11-MW8-1016, Name: 161102J4_15.wiff, Date: 02-Nov-2016, Time: 22:49:19

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	8 PFOA	368.90	2.312e4	3.011e2		0.123	4.72	5.34	
2	20 13C2-PFOA	369.90	3.011e2	4.218e2	0.809	0.123	4.72	0.0897	88.2
3	28 13C8-PFOA	375.90	4.218e2	4.218e2	1.000	0.123	4.72	0.102	100
4	32 Total PFBS	79.90		3.973e2		0.123		1.21	
5	33 Total PFHxS	79.91		5.928e1		0.123		16.3	
6	34 Total PFOA	368.90		3.011e2		0.123		5.36	
7	35 Total PFOS	79.92		8.510e1		0.123		20.0	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_15_ugLTarget.qld

Last Altered: Friday, November 04, 2016 15:47:30 Pacific Daylight Time

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Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-03@20x, Description: OW11-MW8-1016, Name: 161102J4_15.wiff, Date: 02-Nov-2016, Time: 22:49:19

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	5187.000	397.264	1.2
2	32 Total PFBS	79.90	3.34	91.411	397.264	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	25047.426	59.276	13.4
2	33 Total PFHxS	79.91	4.34	5937.700	59.276	2.9

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	23122.291	301.138	5.3
2	34 Total PFOA	368.90	4.63	3458.990	301.138	0.0

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.10	10391.028	85.096	10.8
2	35 Total PFOS	79.92	5.00	8809.416	85.096	9.2

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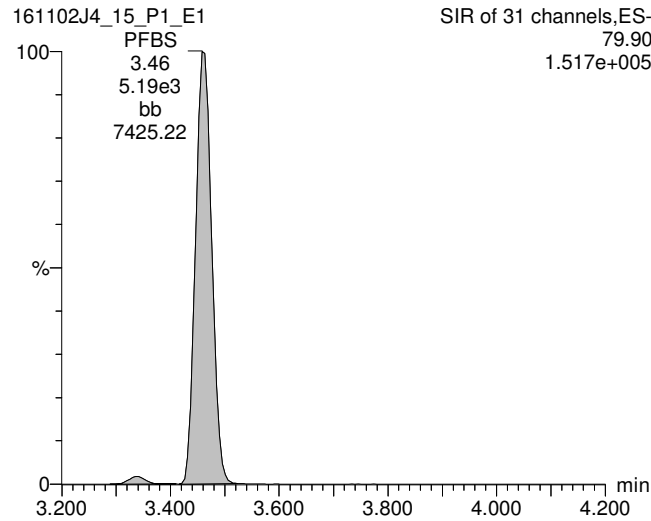
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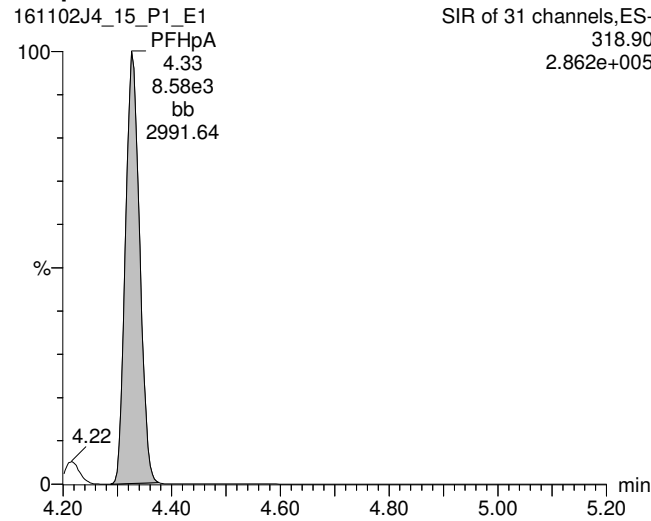
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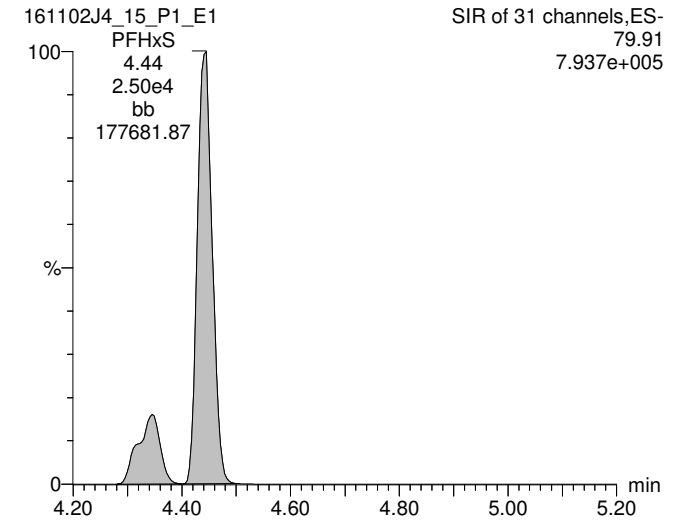
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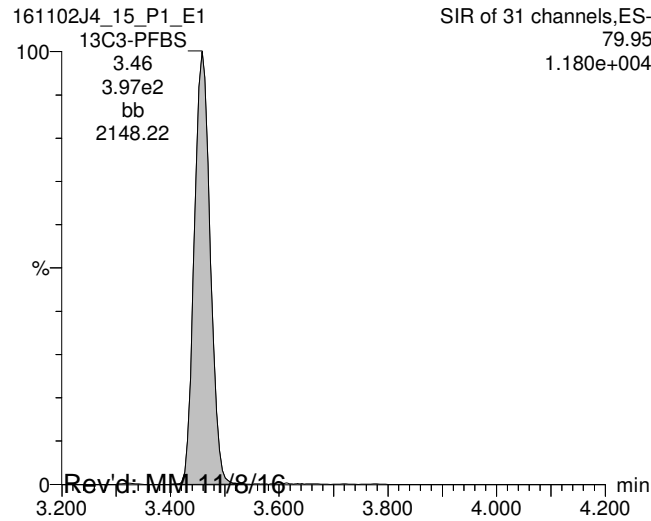
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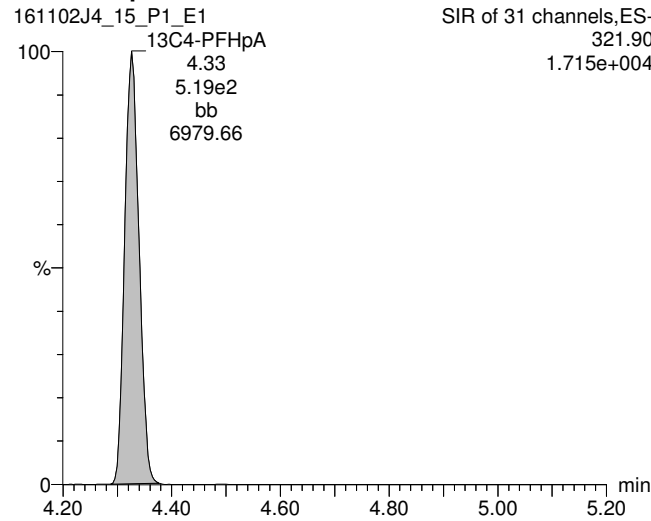
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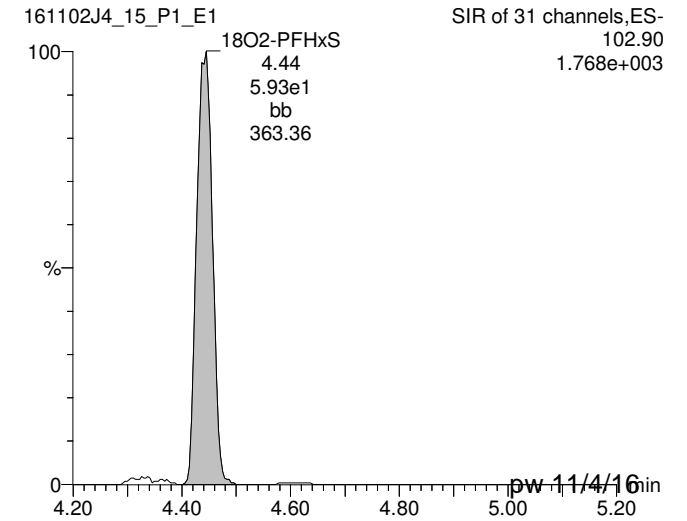
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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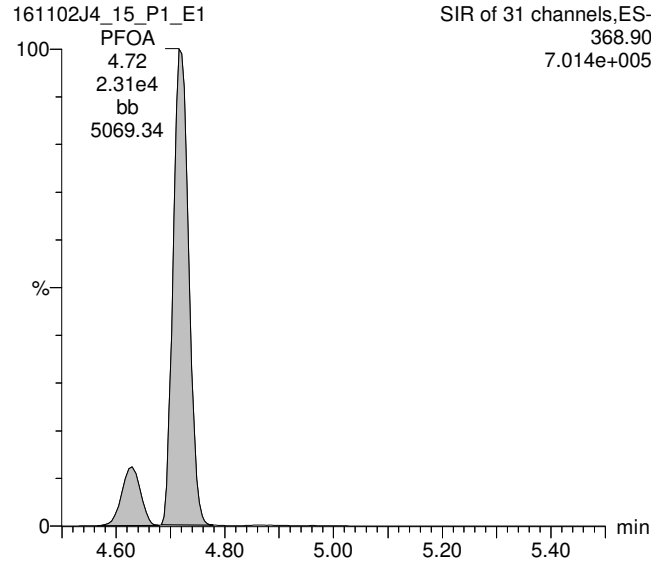
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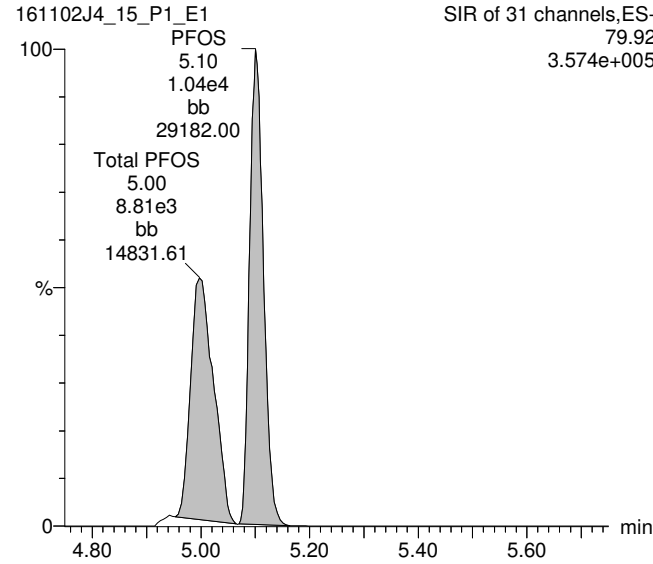
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ID: 1601370-03@20x, Description: OW11-MW8-1016, Name: 161102J4_15.wiff, Date: 02-Nov-2016, Time: 22:49:19, Instrument: , Lab: ©PE-SCIEX, User: sciex

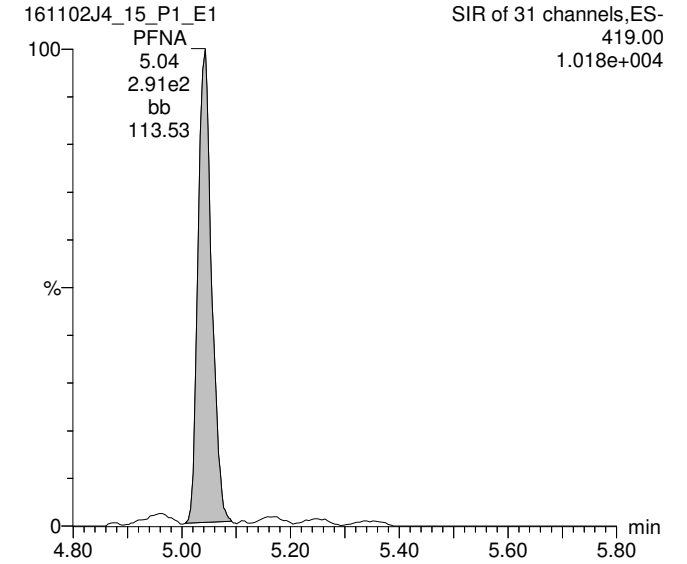
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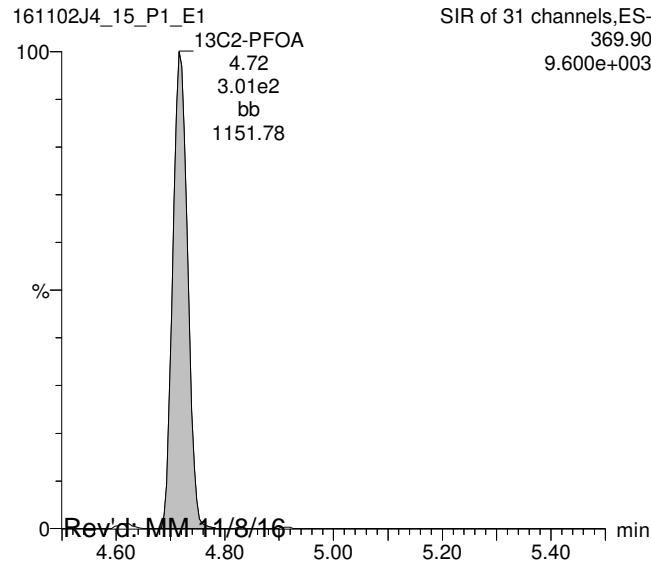
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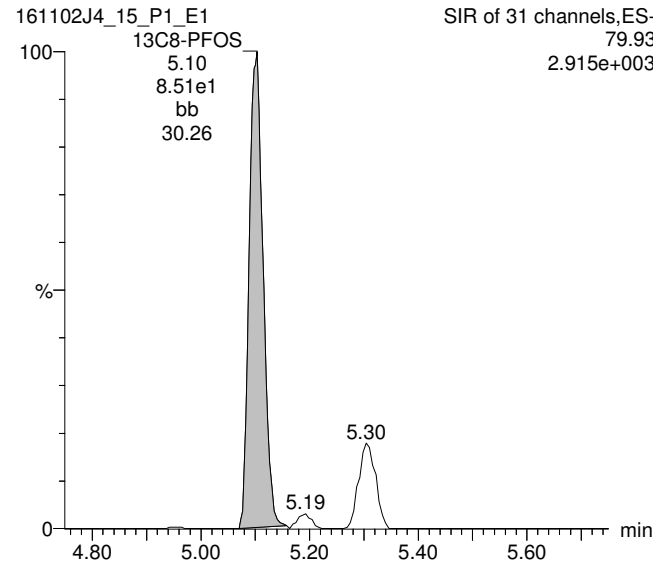
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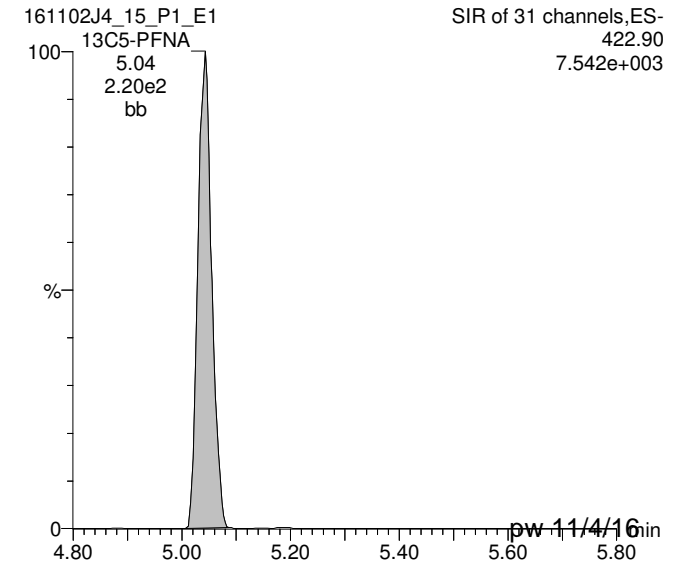
13C2-PFOA



13C8-PFOS



13C5-PFNA



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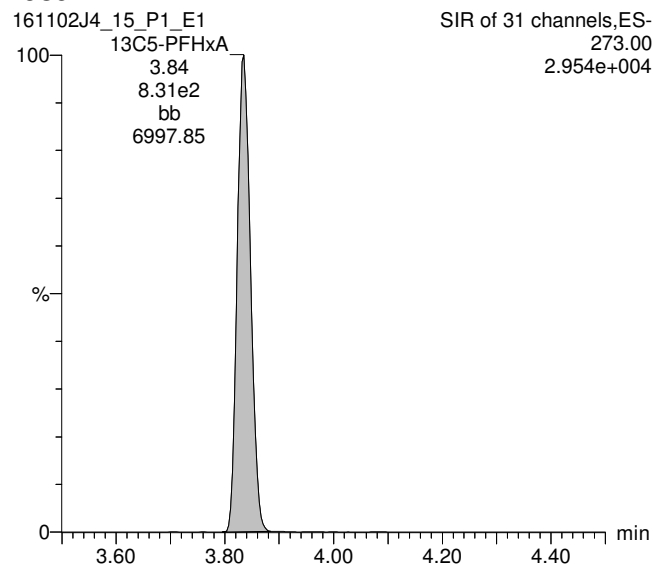
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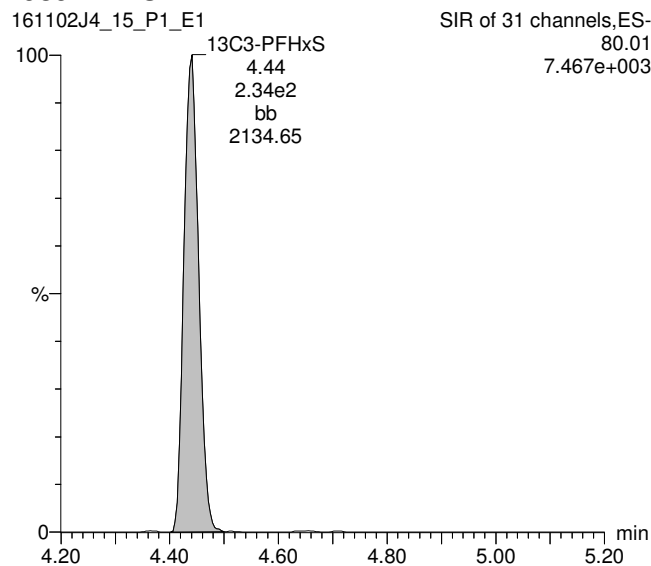
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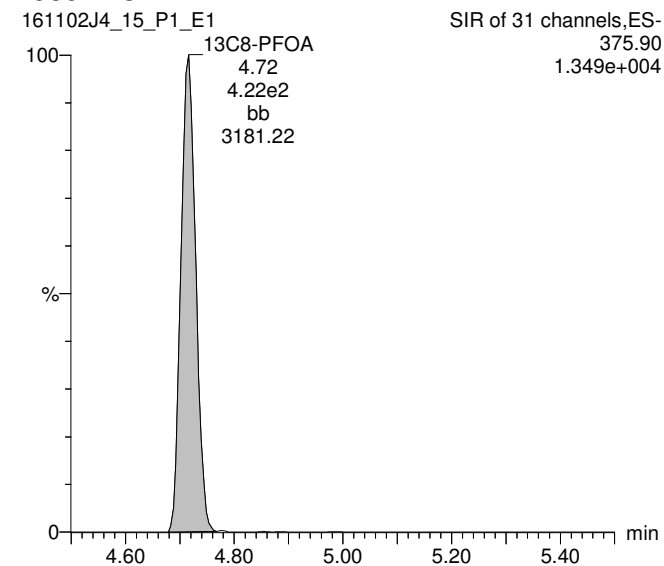
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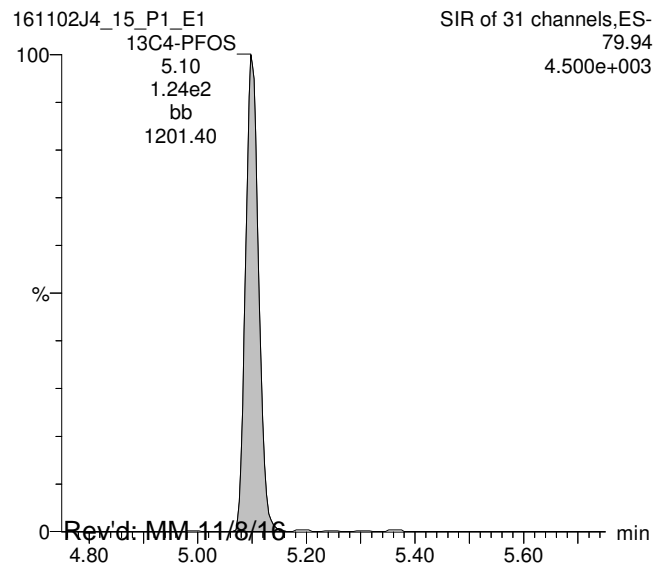
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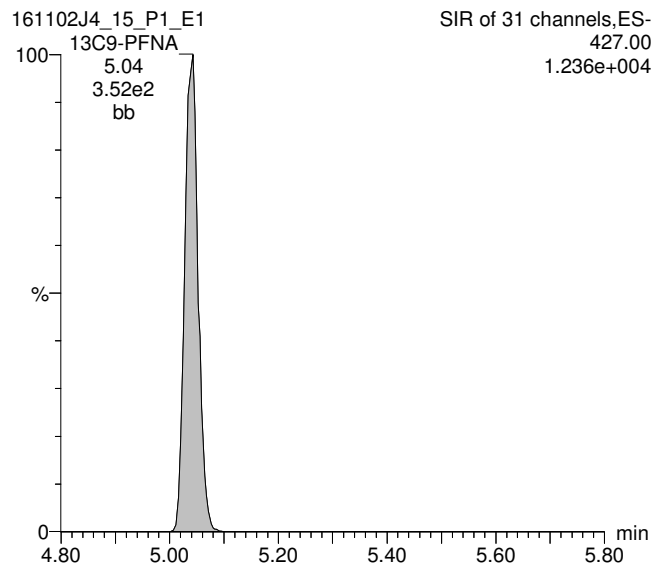
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_17_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:07:31 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:08:50 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-04@40x, Description: OW11-MW1-1016, Name: 161102J4_17.wiff, Date: 02-Nov-2016, Time: 23:13:48

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	2.081e3	1.743e2		0.126	3.46	1490	
2	6 PFHxS	79.91	3.307e4	4.035e1		0.126	4.44	25800	
3	8 PFOA	368.90	3.366e4	2.150e2		0.126	4.72		
4	9 PFNA	419.00	2.617e3	1.557e2		0.126	5.03	1970	
5	10 PFOS	79.92	8.084e4	4.958e1		0.126	5.09	133000 E	
6	15 13C3-PFBS	79.95	1.743e2	3.739e2	0.549	0.126	3.46	84.3	84.9
7	16 13C2-PFHxA	269.90	1.350e2	3.739e2	0.897	0.126	3.84	40.0	101
8	17 13C4-PFHpA	321.90	2.416e2	3.739e2	0.794	0.126	4.33	80.8	81.4
9	18 18O2-PFHxS	102.90	4.035e1	1.418e2	0.284	0.126	4.44	99.5	100
10	19 13C2-6:2 FTS	408.90	1.378e3	2.340e2	0.280	0.126	4.67	2090	2110
11	20 13C2-PFOA	369.90	2.150e2	2.340e2	0.809	0.126	4.71	113	114
12	21 13C5-PFNA	422.90	1.557e2	1.892e2	1.020	0.126	5.03	80.1	80.7
13	22 13C8-PFOS	79.93	4.958e1	5.799e1	0.947	0.126	5.09	89.6	90.3
14	25 13C4-PFBA	171.90	3.775e2	3.775e2	1.000	0.126	2.03	99.2	100
15	26 13C5-PFHxA	273.00	3.739e2	3.739e2	1.000	0.126	3.84	99.2	100
16	27 13C3-PFHxS	80.01	1.418e2	1.418e2	1.000	0.126	4.44	99.2	100
17	28 13C8-PFOA	375.90	2.340e2	2.340e2	1.000	0.126	4.71	99.2	100
18	29 13C4-PFOS	79.94	5.799e1	5.799e1	1.000	0.126	5.09	99.2	100
19	30 13C9-PFNA	427.00	1.892e2	1.892e2	1.000	0.126	5.03	99.2	100
20	31 13C6-PFDA	474.00	7.082e1	7.082e1	1.000	0.126	5.32	99.2	100
21	32 Total PFBS	79.90		1.743e2		0.126		1520	
22	33 Total PFHxS	79.91		4.035e1		0.126		30500	
23	34 Total PFOA	368.90		2.150e2		0.126		521	
24	35 Total PFOS	79.92		4.958e1		0.126		213000	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_17_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:07:31 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:08:50 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-04@40x, Description: OW11-MW1-1016, Name: 161102J4_17.wiff, Date: 02-Nov-2016, Time: 23:13:48

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	2081.455	174.342	1493.3
2	32 Total PFBS	79.90	3.34	31.638	174.342	22.3

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	33067.910	40.350	25841.7
2	33 Total PFHxS	79.91	4.34	5982.036	40.350	4674.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	33655.164	215.012	
2	34 Total PFOA	368.90	4.62	1224.125	215.012	521.4

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	80841.461	49.584	13277...
2	35 Total PFOS	79.92	4.99	48772.238	49.584	80101.4

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_17_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:07:31 Pacific Daylight Time

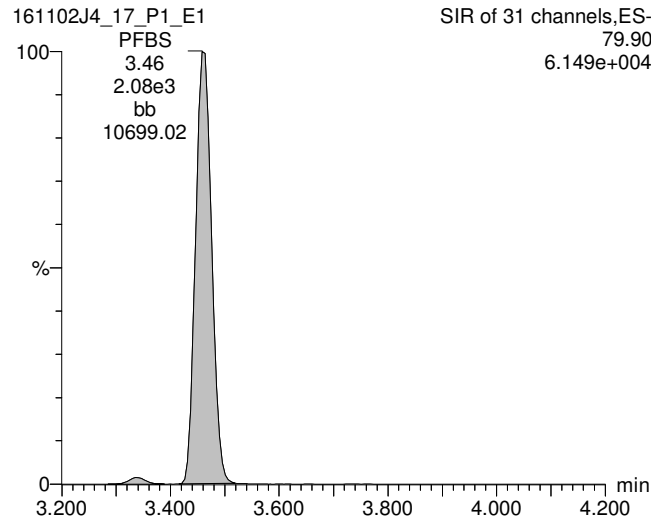
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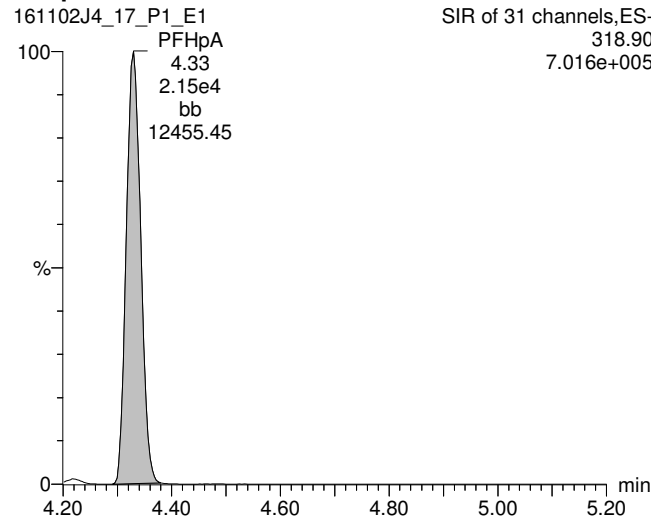
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ID: 1601370-04@40x, Description: OW11-MW1-1016, Name: 161102J4_17.wiff, Date: 02-Nov-2016, Time: 23:13:48, Instrument: , Lab: ©PE-SCIEX, User: sciex

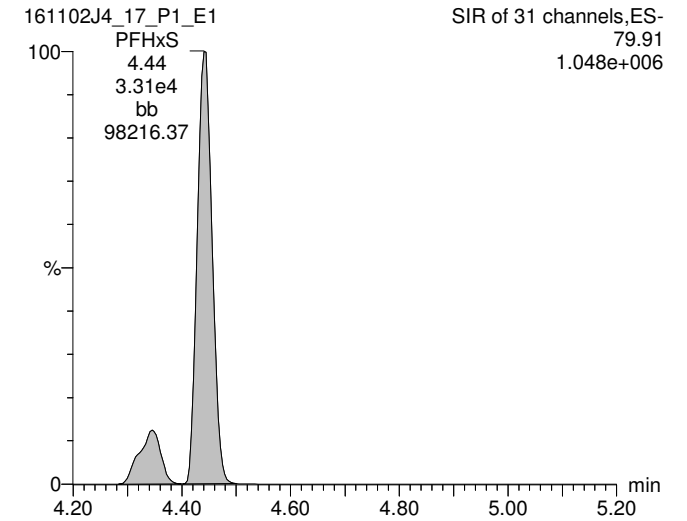
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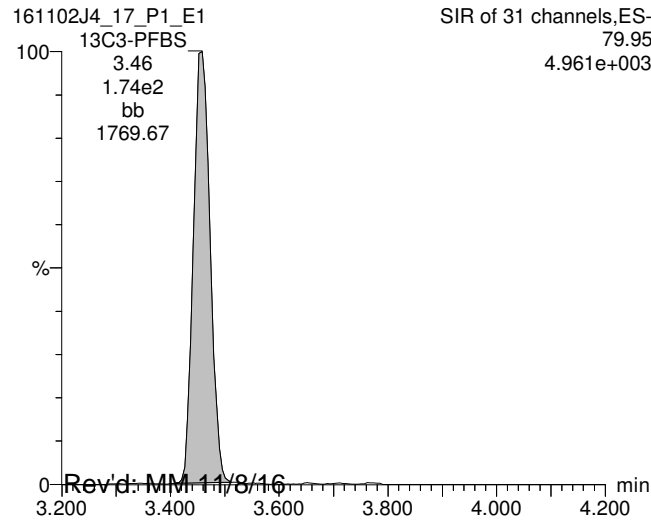
PFHpA



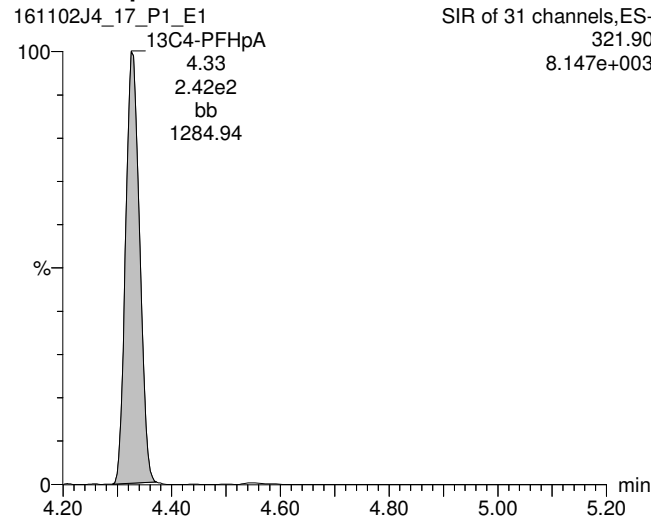
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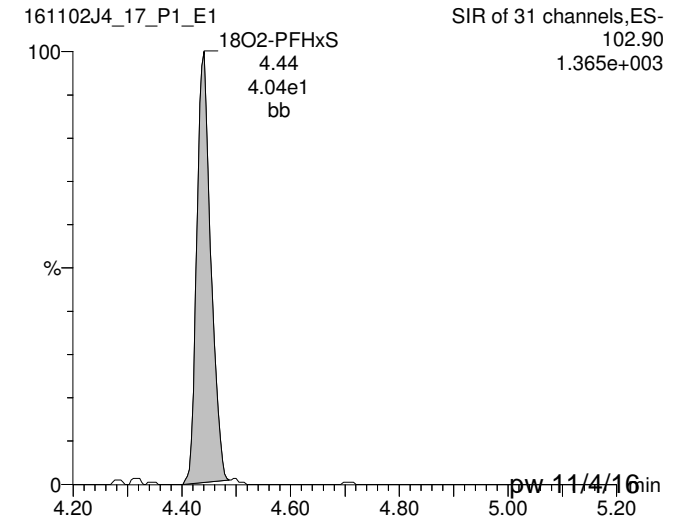
13C3-PFBS



13C4-PFHpA

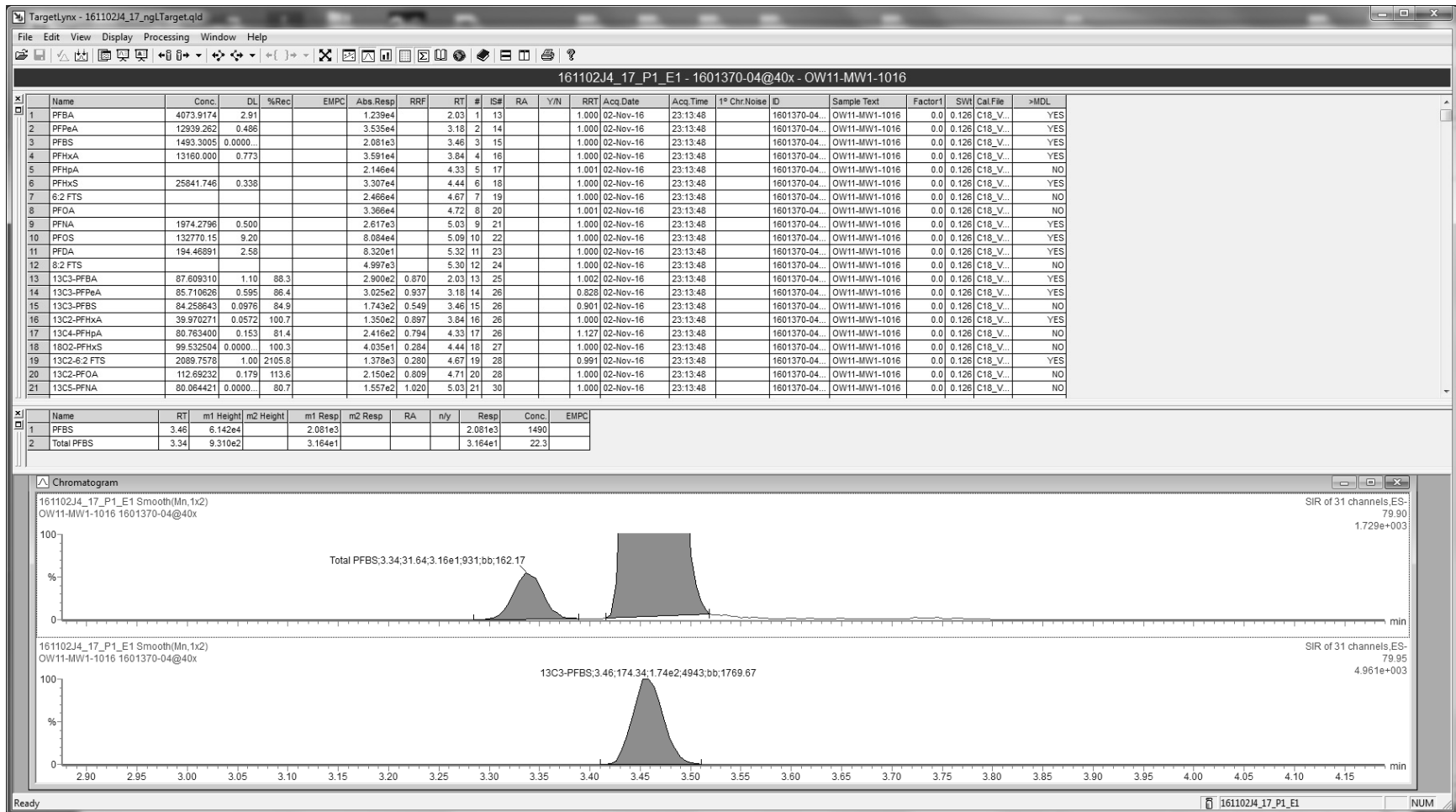


18O2-PFHxS



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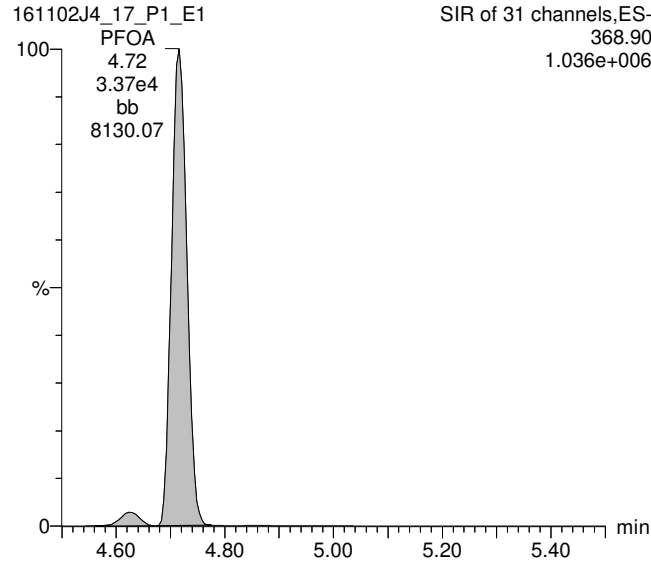
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Last Altered: Friday, November 04, 2016 16:07:31 Pacific Daylight Time

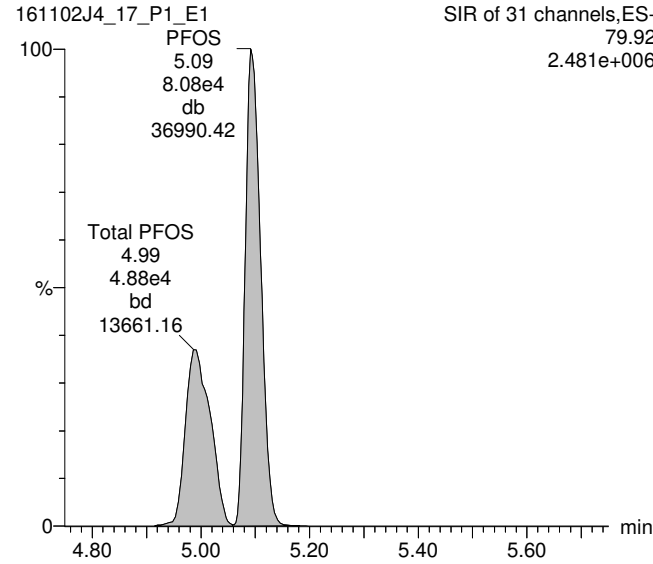
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ID: 1601370-04@40x, Description: OW11-MW1-1016, Name: 161102J4_17.wiff, Date: 02-Nov-2016, Time: 23:13:48, Instrument: , Lab: ©PE-SCIEX, User: sciex

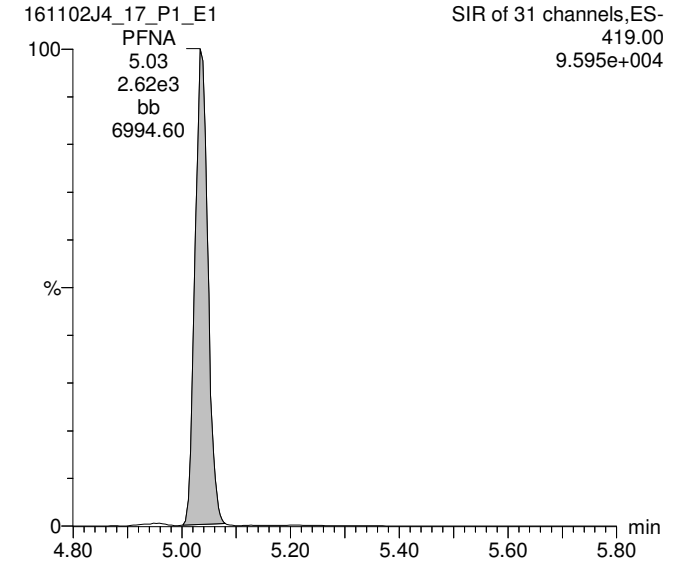
Total PFOA



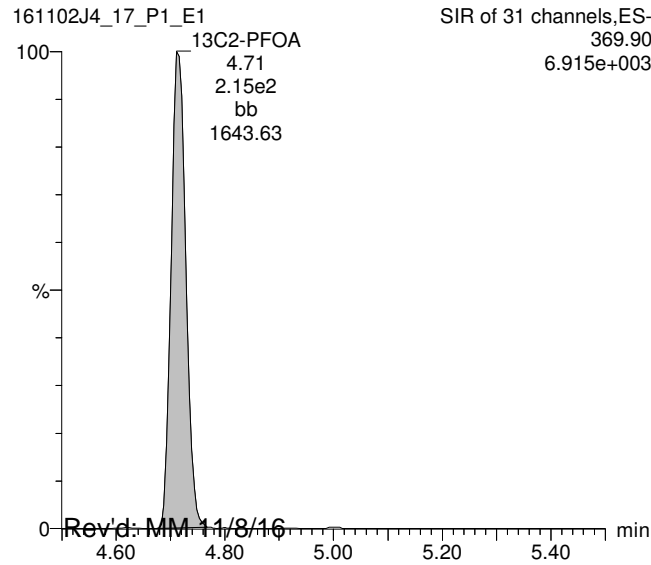
Total PFOS



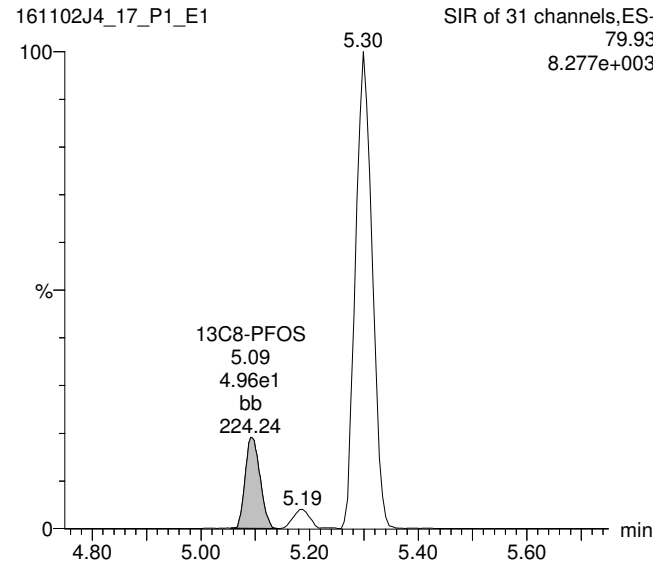
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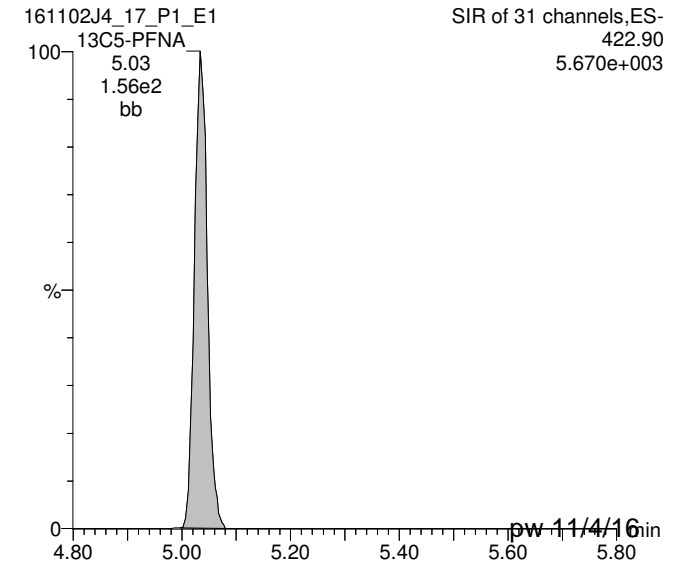
13C2-PFOA



13C8-PFOS

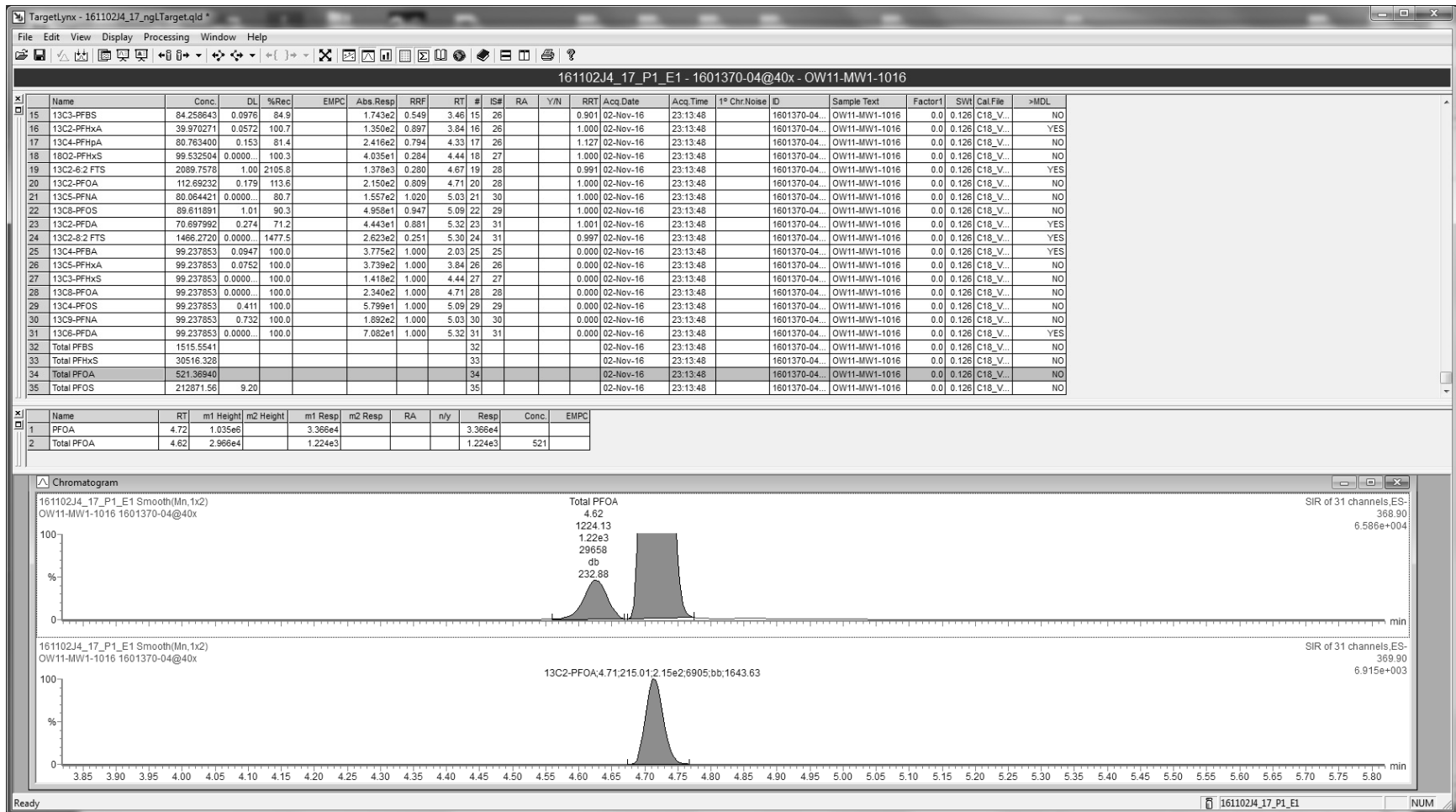


13C5-PFNA



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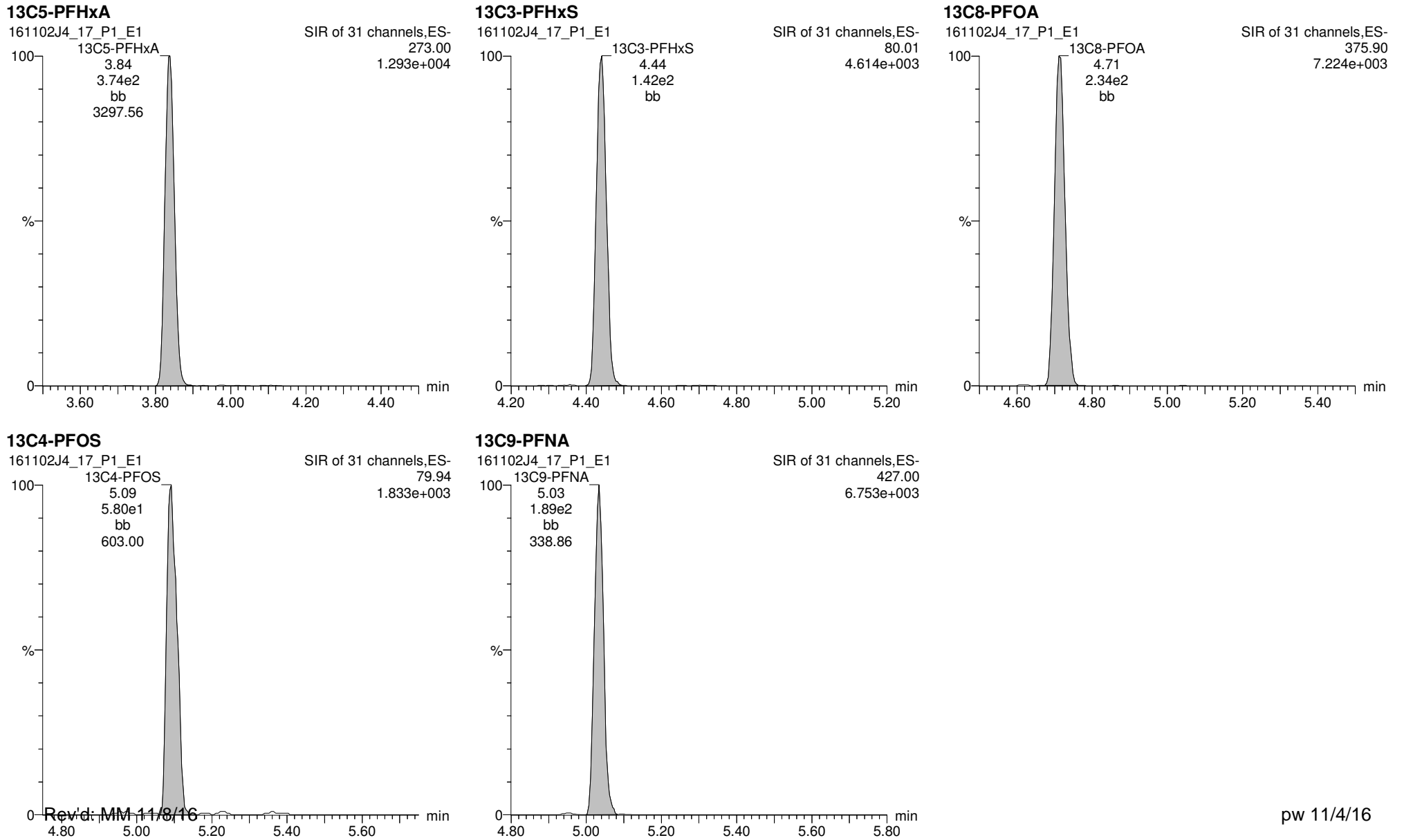


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Last Altered: Friday, November 04, 2016 16:07:31 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:08:50 Pacific Daylight Time

ID: 1601370-04@40x, Description: OW11-MW1-1016, Name: 161102J4_17.wiff, Date: 02-Nov-2016, Time: 23:13:48, Instrument: , Lab: ©PE-SCIEX, User: sciex



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Work Order 1601370

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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_17_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:12:40 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:13:47 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-04@40x, Description: OW11-MW1-1016, Name: 161102J4_17.wiff, Date: 02-Nov-2016, Time: 23:13:48

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	2.146e4	2.416e2		0.126	4.33	9.82	
2	8 PFOA	368.90	3.366e4	2.150e2		0.126	4.72	11.6	
3	15 13C3-PFBS	79.95	1.743e2	3.739e2	0.549	0.126	3.46	0.0843	84.9
4	16 13C2-PFHxA	269.90	1.350e2	3.739e2	0.897	0.126	3.84	0.0400	101
5	17 13C4-PFHpA	321.90	2.416e2	3.739e2	0.794	0.126	4.33	0.0808	81.4
6	18 18O2-PFHxS	102.90	4.035e1	1.418e2	0.284	0.126	4.44	0.0995	100
7	19 13C2-6:2 FTS	408.90	1.378e3	2.340e2	0.280	0.126	4.67	2.09	2110
8	20 13C2-PFOA	369.90	2.150e2	2.340e2	0.809	0.126	4.71	0.113	114
9	21 13C5-PFNA	422.90	1.557e2	1.892e2	1.020	0.126	5.03	0.0801	80.7
10	22 13C8-PFOS	79.93	4.958e1	5.799e1	0.947	0.126	5.09	0.0896	90.3
11	25 13C4-PFBA	171.90	3.775e2	3.775e2	1.000	0.126	2.03	0.0992	100
12	26 13C5-PFHxA	273.00	3.739e2	3.739e2	1.000	0.126	3.84	0.0992	100
13	27 13C3-PFHxS	80.01	1.418e2	1.418e2	1.000	0.126	4.44	0.0992	100
14	28 13C8-PFOA	375.90	2.340e2	2.340e2	1.000	0.126	4.71	0.0992	100
15	29 13C4-PFOS	79.94	5.799e1	5.799e1	1.000	0.126	5.09	0.0992	100
16	30 13C9-PFNA	427.00	1.892e2	1.892e2	1.000	0.126	5.03	0.0992	100
17	31 13C6-PFDA	474.00	7.082e1	7.082e1	1.000	0.126	5.32	0.0992	100
18	32 Total PFBS	79.90	1.743e2			0.126		1.04	
19	33 Total PFHxS	79.91	4.035e1			0.126		30.0	
20	34 Total PFOA	368.90	2.150e2			0.126		11.6	
21	35 Total PFOS	79.92	4.958e1			0.126		214	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_17_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:12:40 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:13:47 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-04@40x, Description: OW11-MW1-1016, Name: 161102J4_17.wiff, Date: 02-Nov-2016, Time: 23:13:48

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	2081.455	174.342	1.0
2	32 Total PFBS	79.90	3.34	31.638	174.342	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	33067.910	40.350	25.6
2	33 Total PFHxS	79.91	4.34	5982.036	40.350	4.4

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	33655.164	215.012	11.6
2	34 Total PFOA	368.90	4.62	1224.125	215.012	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	80841.461	49.584	133.3
2	35 Total PFOS	79.92	4.99	48772.238	49.584	80.7

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Last Altered: Friday, November 04, 2016 16:12:40 Pacific Daylight Time

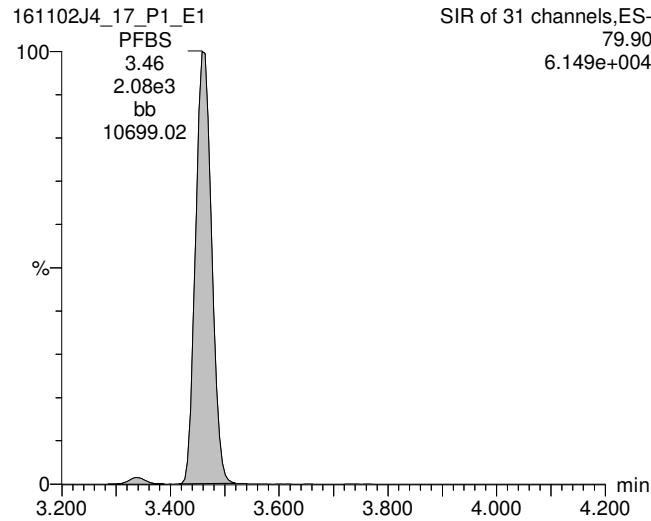
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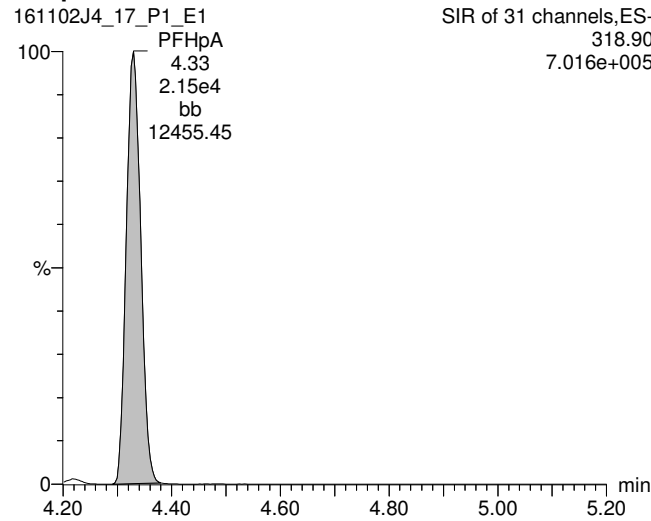
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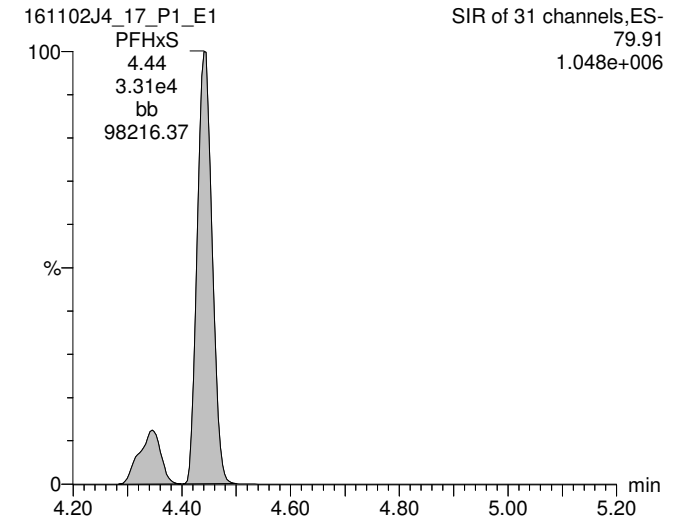
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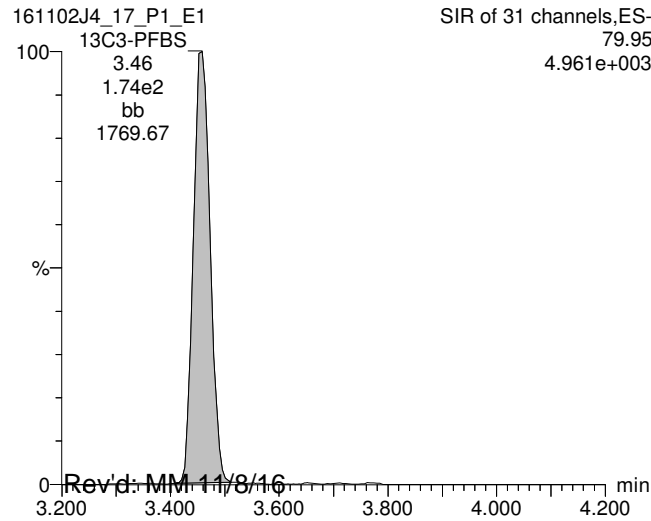
PFHpA



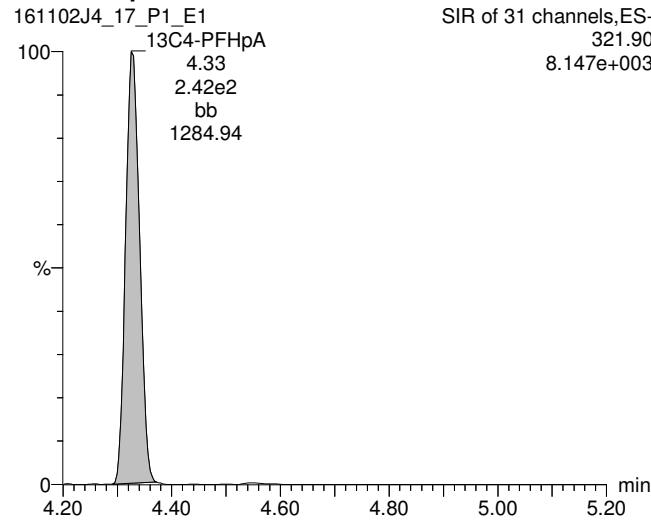
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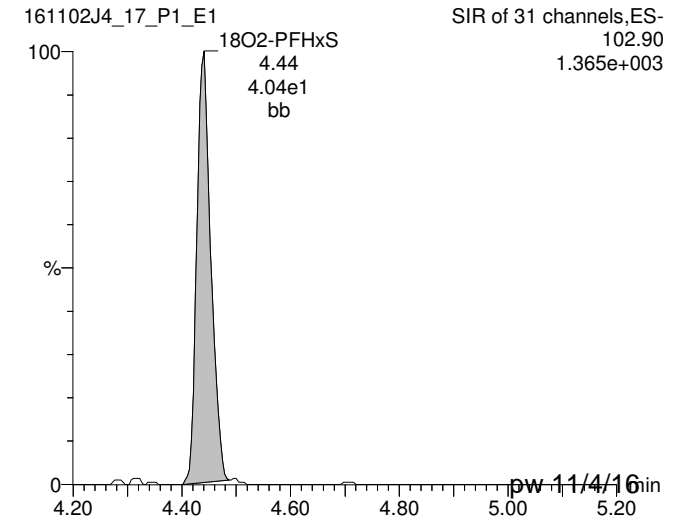
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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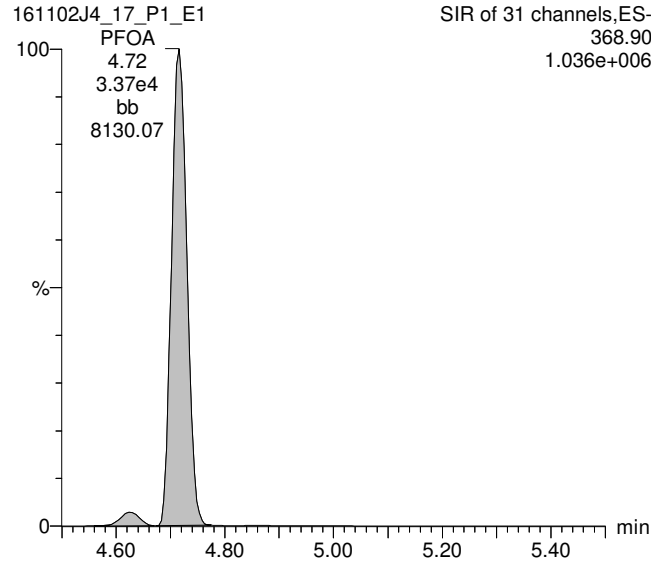
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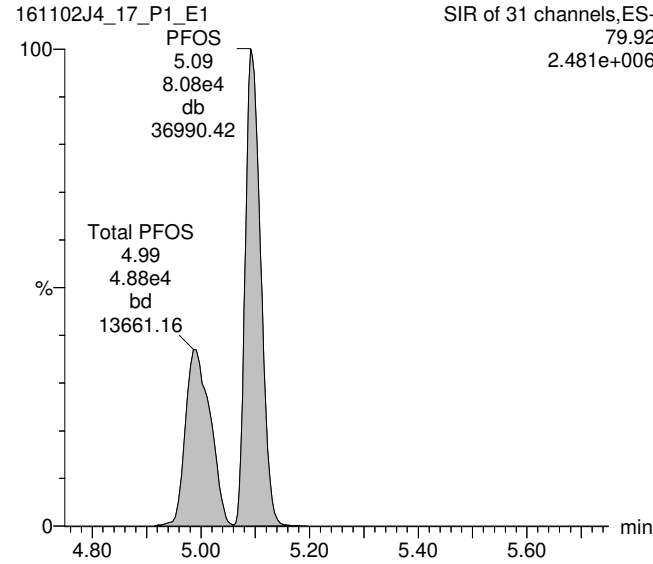
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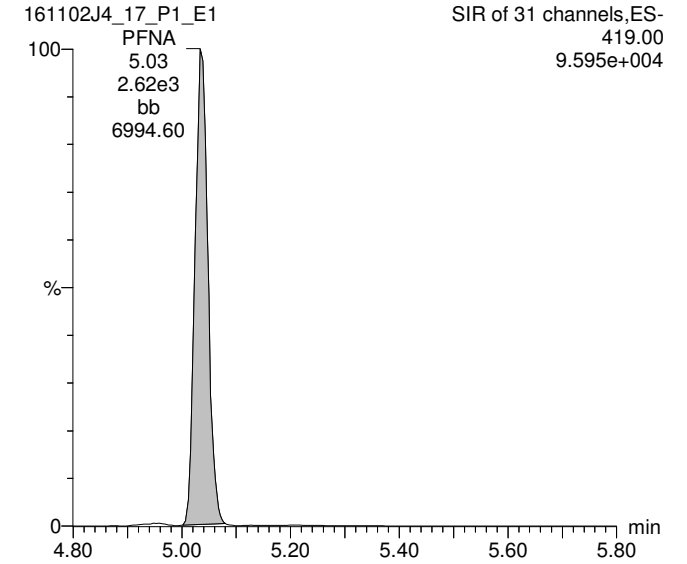
Total PFOA



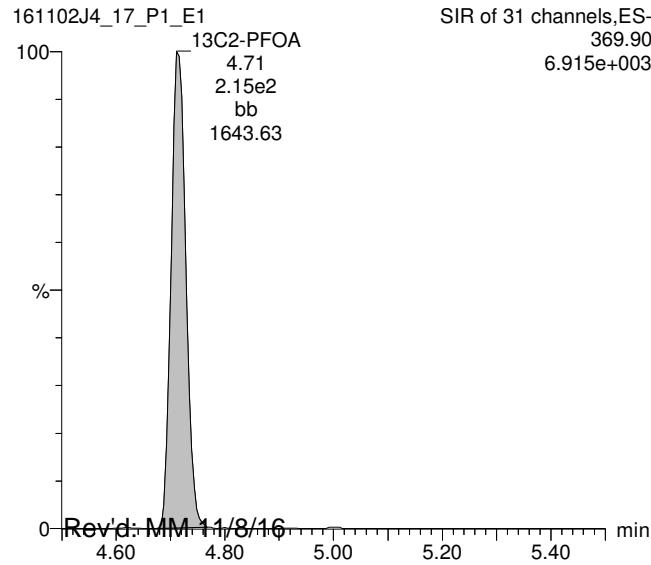
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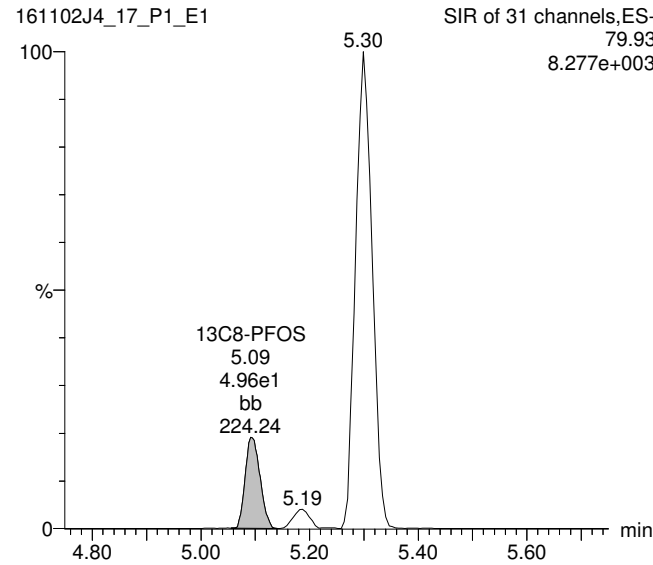
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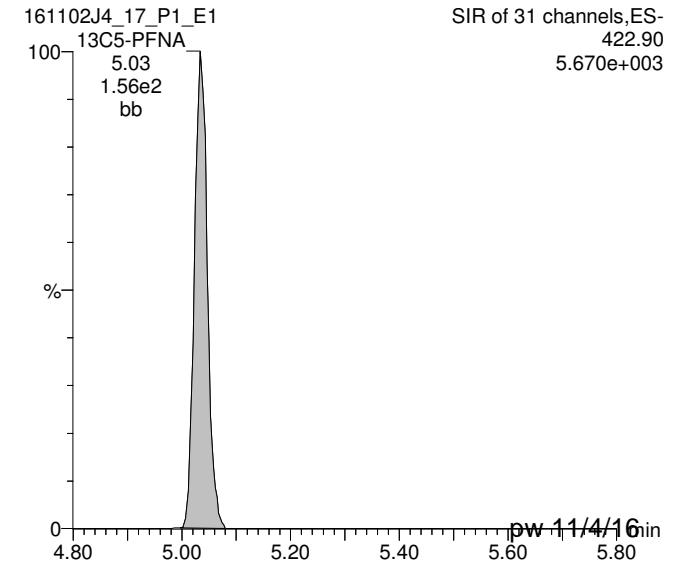
13C2-PFOA



13C8-PFOS

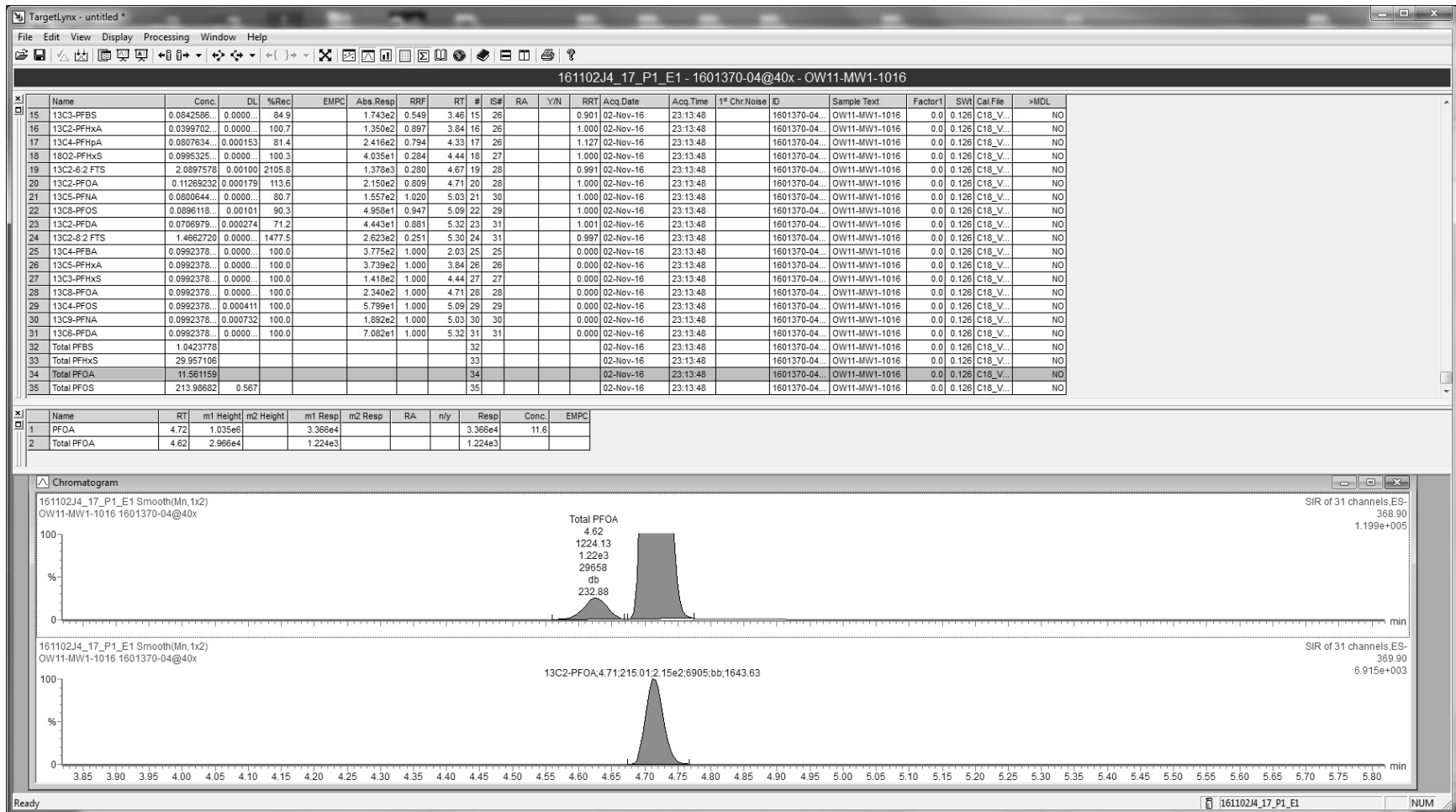


13C5-PFNA



Rev'd: MM-11/8/16

pw-11/4/16

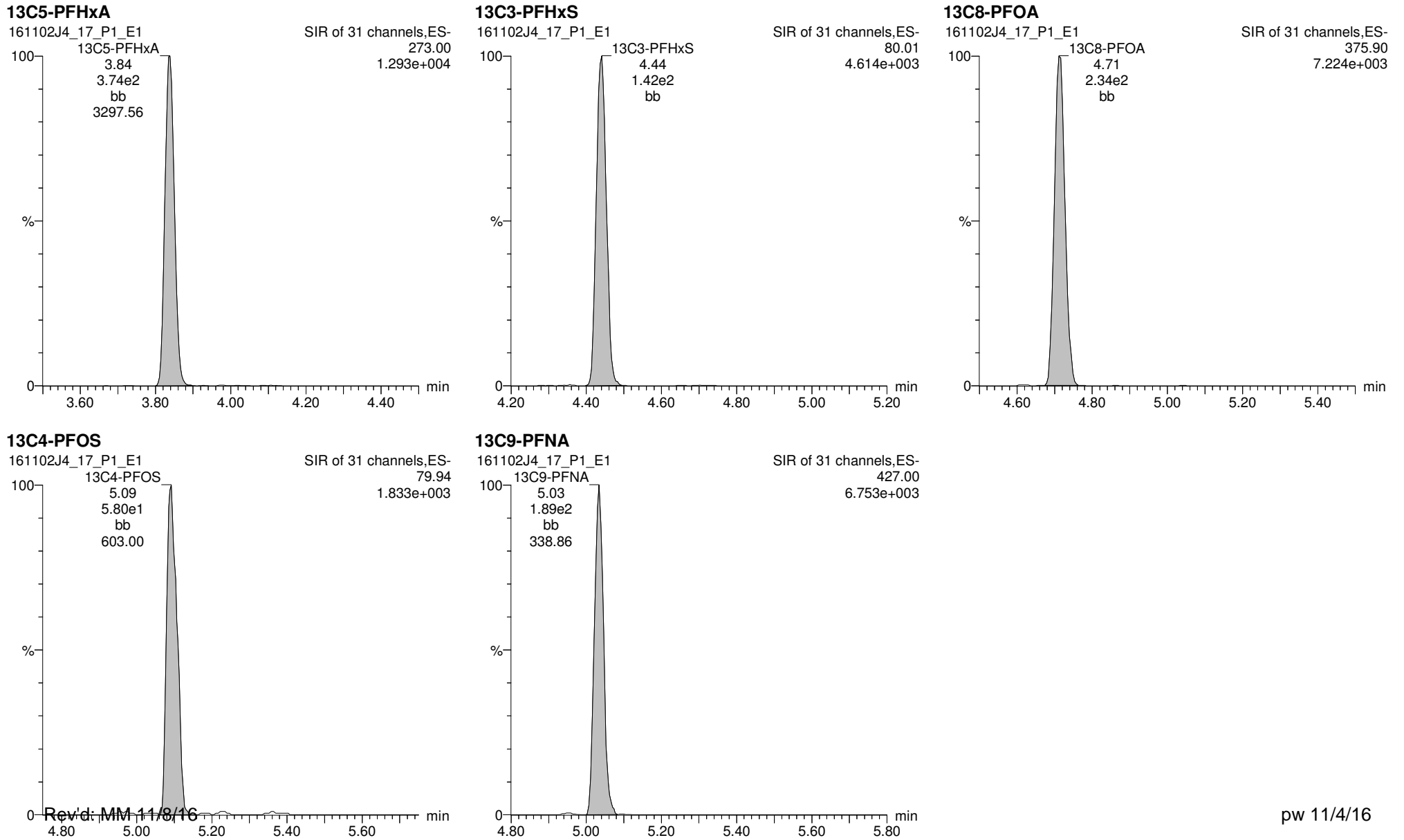


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Rev'd: MM 11/8/16

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Printed: Friday, November 04, 2016 16:52:54 Pacific Daylight Time

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ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	2.842e3	1.600e2		0.124	3.46	2250	
2	6 PFHxS	79.91	3.306e4	3.405e1		0.124	4.45	31100	
3	9 PFNA	419.00	2.514e3	1.126e2		0.124	5.04	2660	
4	10 PFOS	79.92	7.451e4	3.810e1		0.124	5.09	162000	E
5	15 13C3-PFBS	79.95	1.600e2	3.289e2	0.549	0.124	3.46	89.2	88.6
6	16 13C2-PFHxA	269.90	1.238e2	3.289e2	0.897	0.124	3.85	42.3	105
7	17 13C4-PFHpA	321.90	2.201e2	3.289e2	0.794	0.124	4.33	84.9	84.3
8	18 18O2-PFHxS	102.90	3.405e1	1.334e2	0.284	0.124	4.45	90.6	90.0
9	19 13C2-6:2 FTS	408.90	1.520e3	2.221e2	0.280	0.124	4.68	2470	2450
10	20 13C2-PFOA	369.90	1.693e2	2.221e2	0.809	0.124	4.72	94.9	94.2
11	21 13C5-PFNA	422.90	1.126e2	1.609e2	1.020	0.124	5.03	69.1	68.6
12	22 13C8-PFOS	79.93	3.810e1	4.597e1	0.947	0.124	5.09	88.1	87.5
13	25 13C4-PFBA	171.90	3.482e2	3.482e2	1.000	0.124	2.03	101	100
14	26 13C5-PFHxA	273.00	3.289e2	3.289e2	1.000	0.124	3.84	101	100
15	27 13C3-PFHxS	80.01	1.334e2	1.334e2	1.000	0.124	4.45	101	100
16	28 13C8-PFOA	375.90	2.221e2	2.221e2	1.000	0.124	4.72	101	100
17	29 13C4-PFOS	79.94	4.597e1	4.597e1	1.000	0.124	5.09	101	100
18	30 13C9-PFNA	427.00	1.609e2	1.609e2	1.000	0.124	5.04	101	100
19	31 13C6-PFDA	474.00	5.821e1	5.821e1	1.000	0.124	5.30	101	100
20	32 Total PFBS	79.90		1.600e2		0.124		2290	
21	33 Total PFHxS	79.91		3.405e1		0.124		37100	
22	34 Total PFOA	368.90		1.693e2		0.124			
23	35 Total PFOS	79.92		3.810e1		0.124		264000	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_29_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:52:03 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:52:54 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	2841.760	160.034	2254.0
2	32 Total PFBS	79.90	3.34	42.251	160.034	33.1

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.45	33057.574	34.053	31062.1
2	33 Total PFHxS	79.91	4.36	6427.377	34.053	6039.2

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.73	40151.262	169.302	
2	34 Total PFOA	368.90	4.64	2730.816	169.302	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	74511.766	38.096	16162...
2	35 Total PFOS	79.92	4.99	47343.406	38.096	10269...

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_29_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:52:03 Pacific Daylight Time

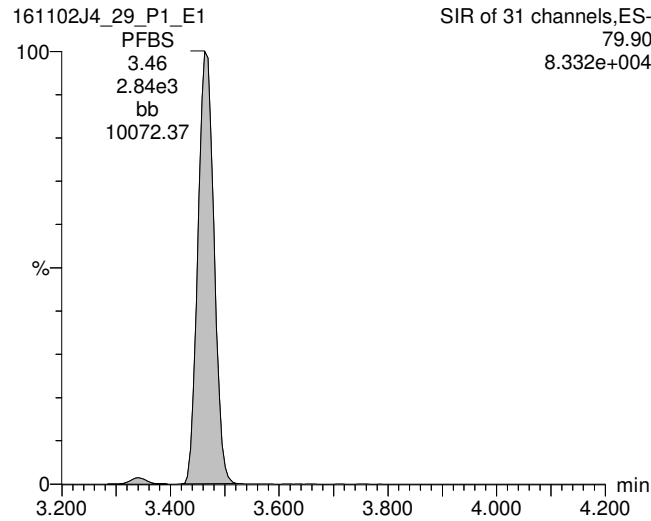
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Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

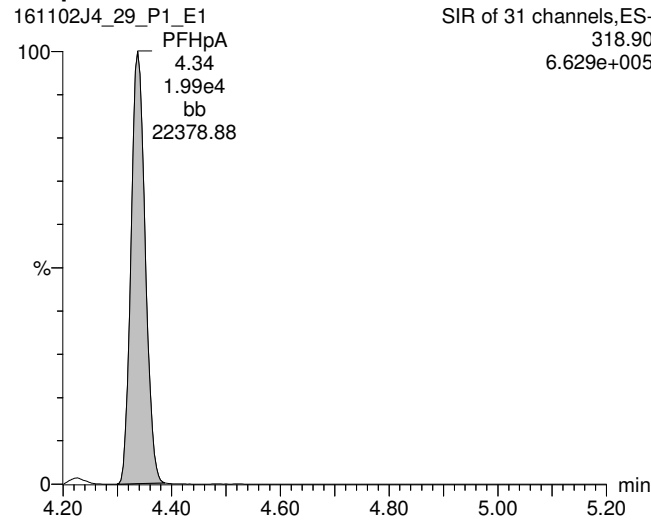
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ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

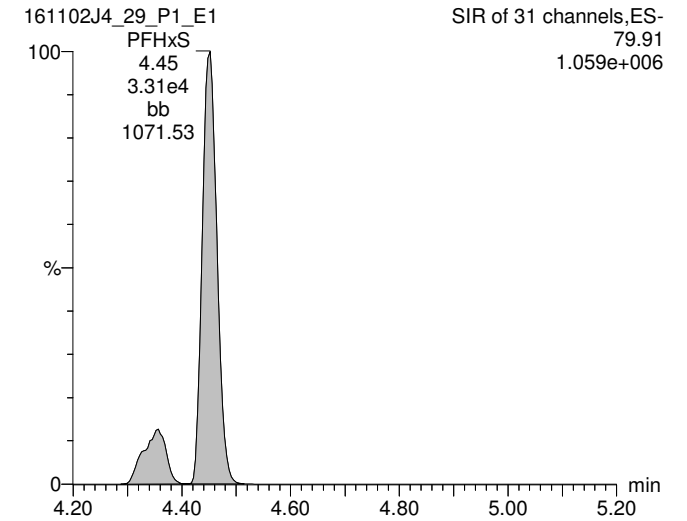
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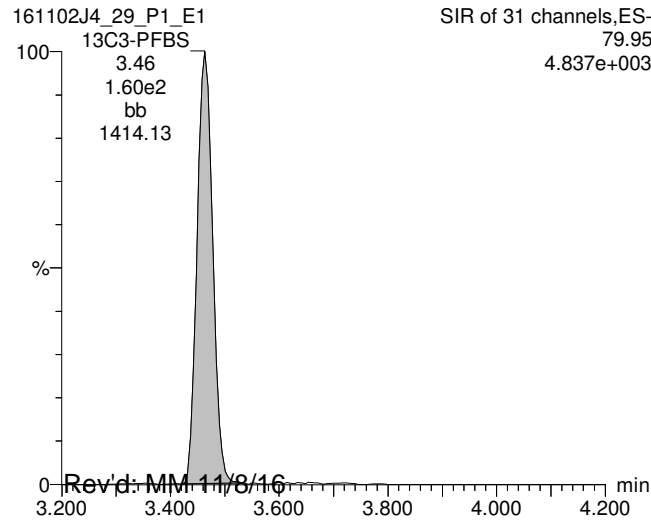
PFHpA



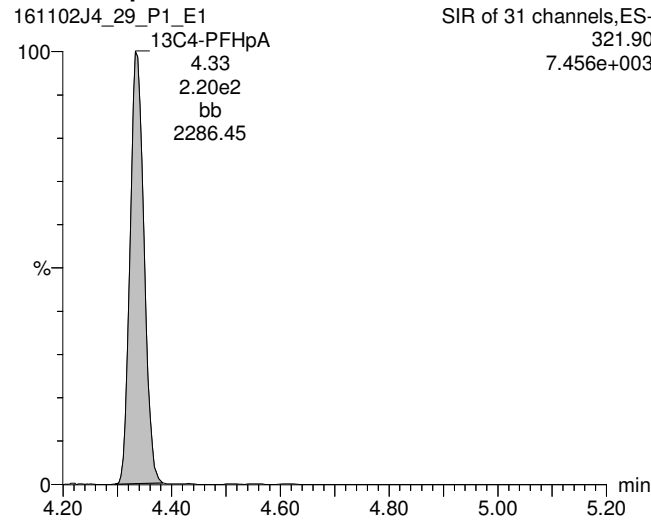
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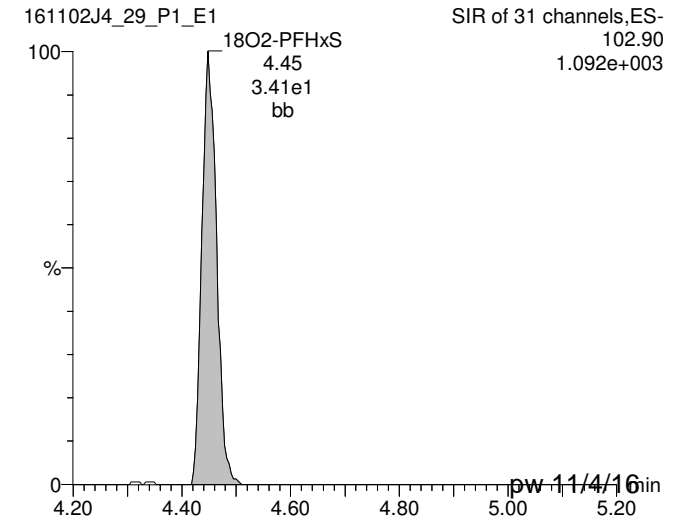
13C3-PFBS



13C4-PFHpA

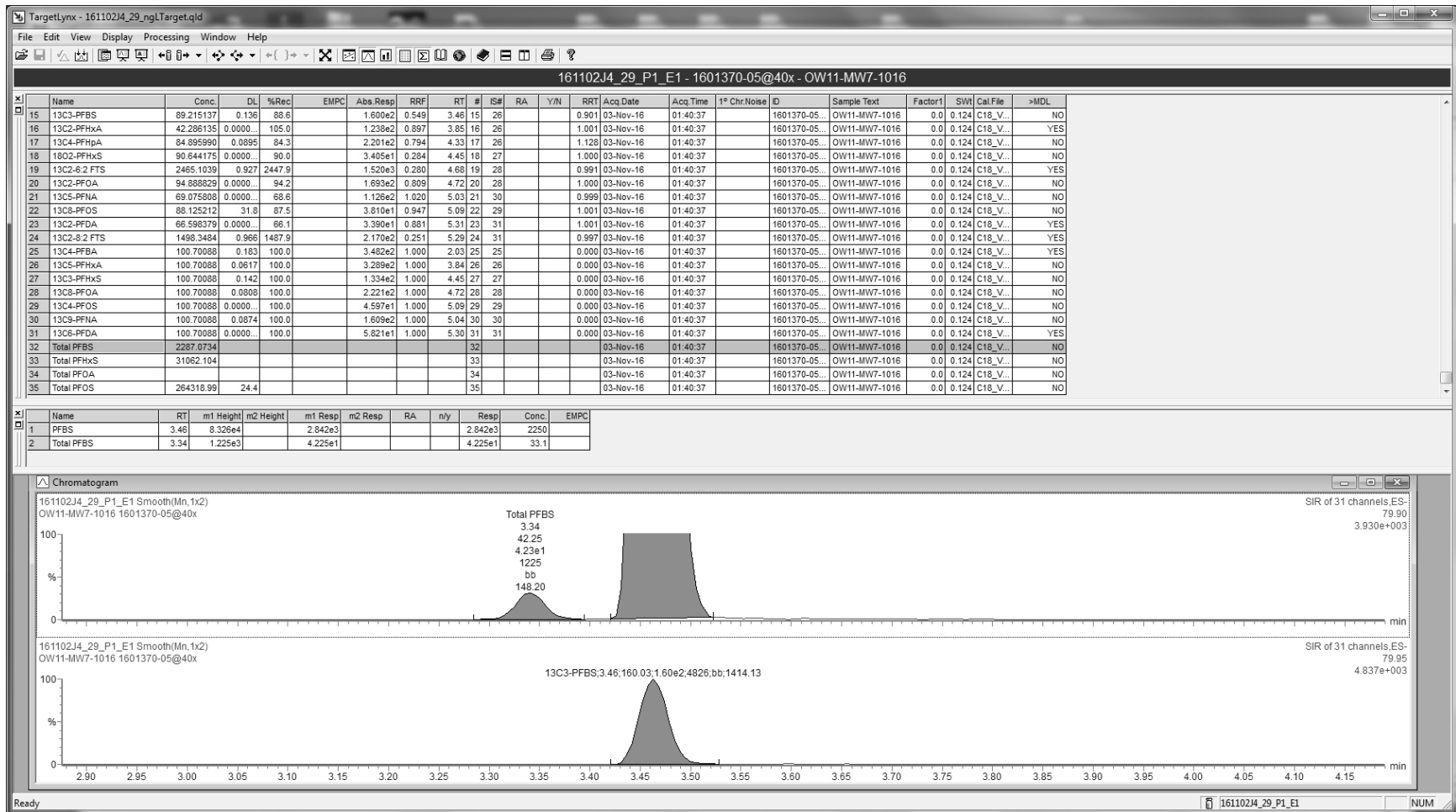


18O2-PFHxS



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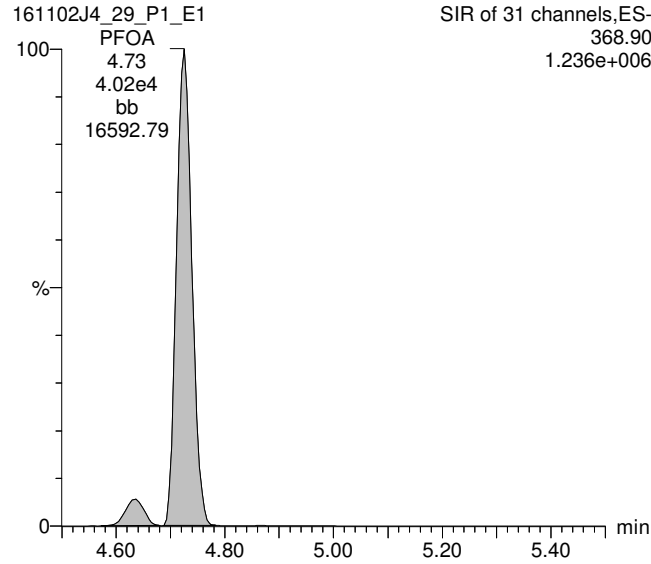
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Last Altered: Friday, November 04, 2016 16:52:03 Pacific Daylight Time

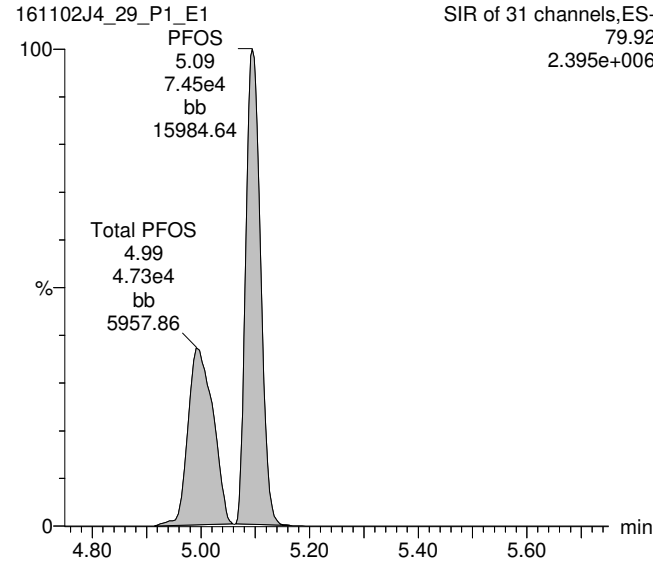
Printed: Friday, November 04, 2016 16:52:54 Pacific Daylight Time

ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

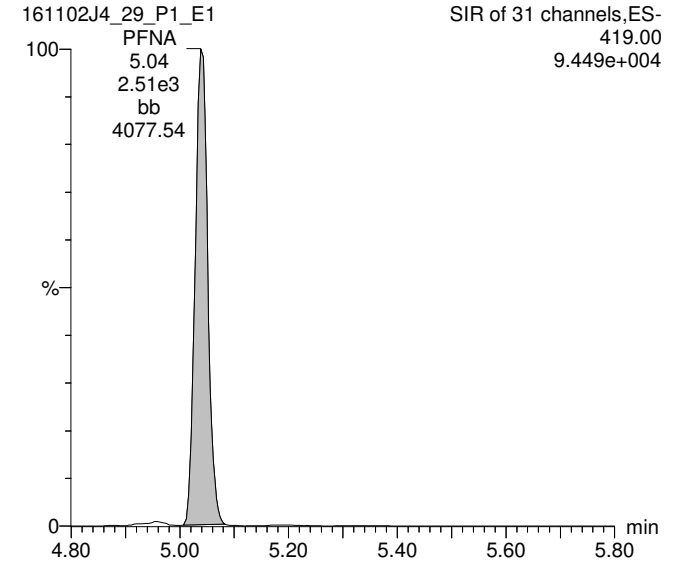
Total PFOA



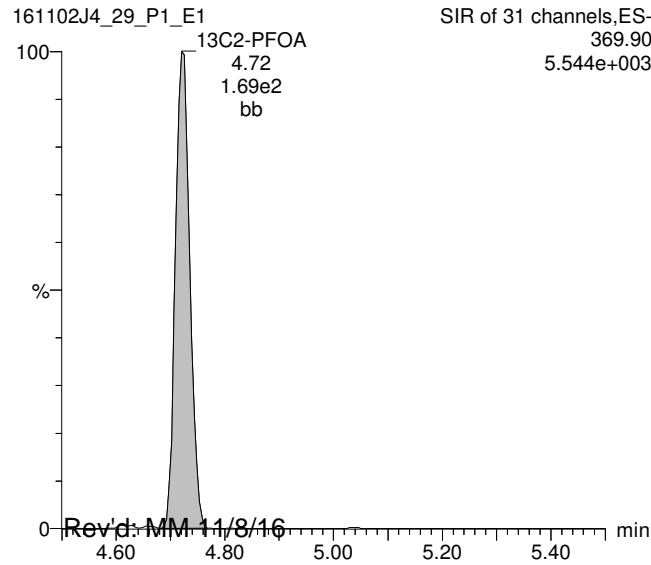
Total PFOS



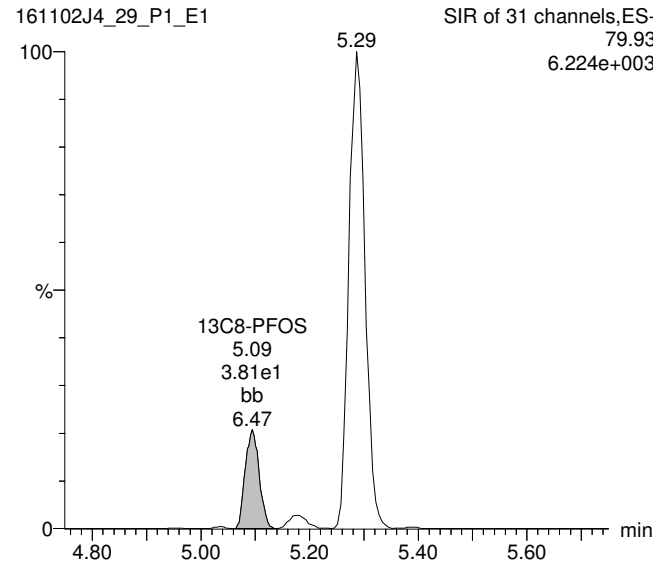
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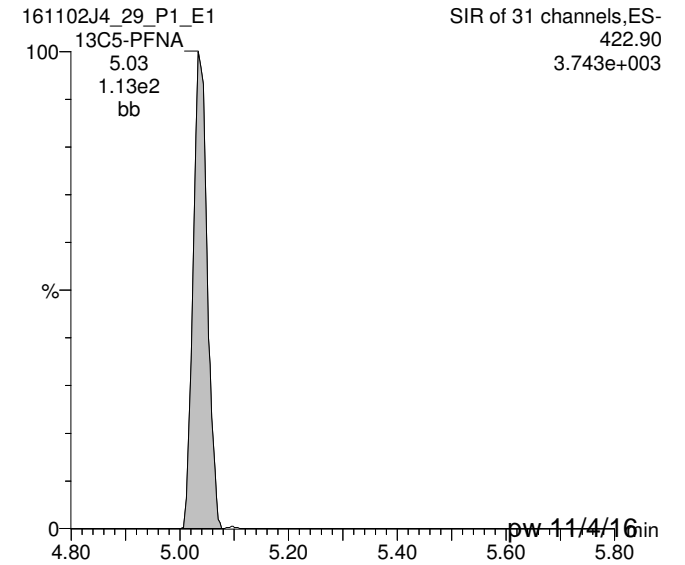
13C2-PFOA



13C8-PFOS



13C5-PFNA



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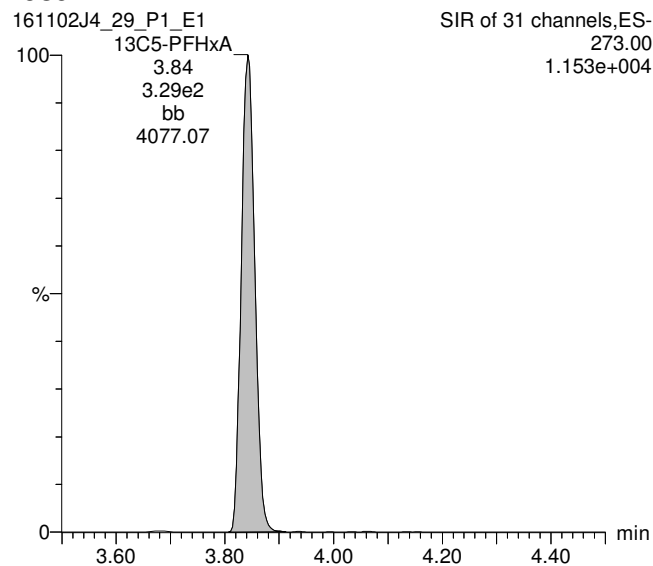
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Last Altered: Friday, November 04, 2016 16:52:03 Pacific Daylight Time

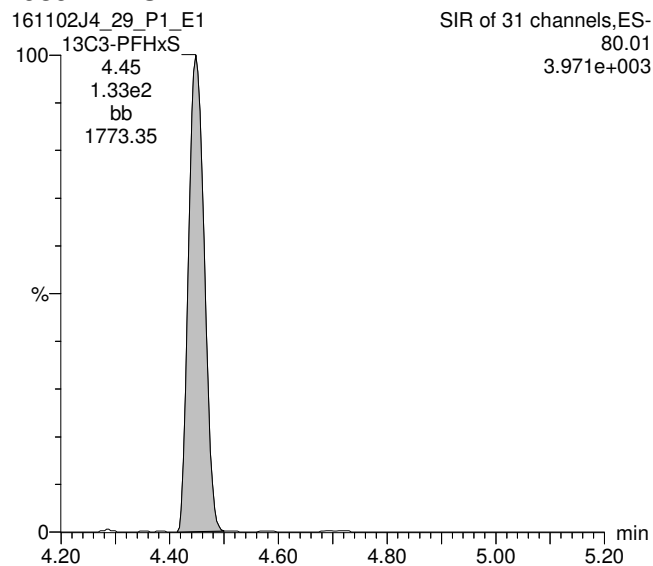
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ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

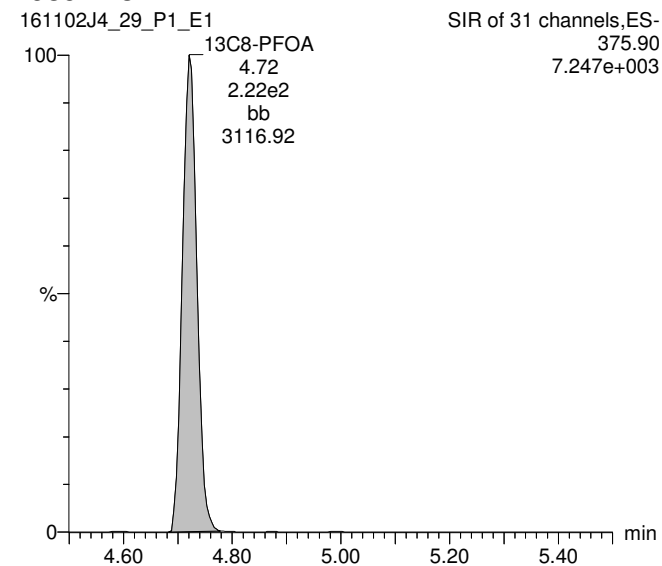
13C5-PFHxA



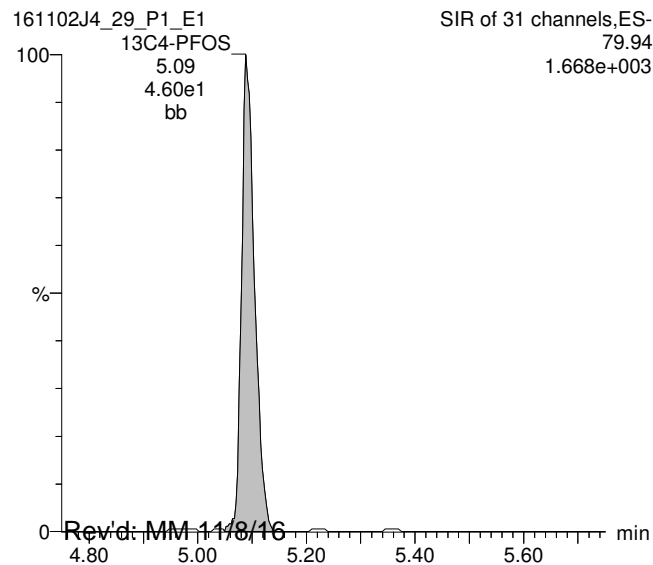
13C3-PFHxS



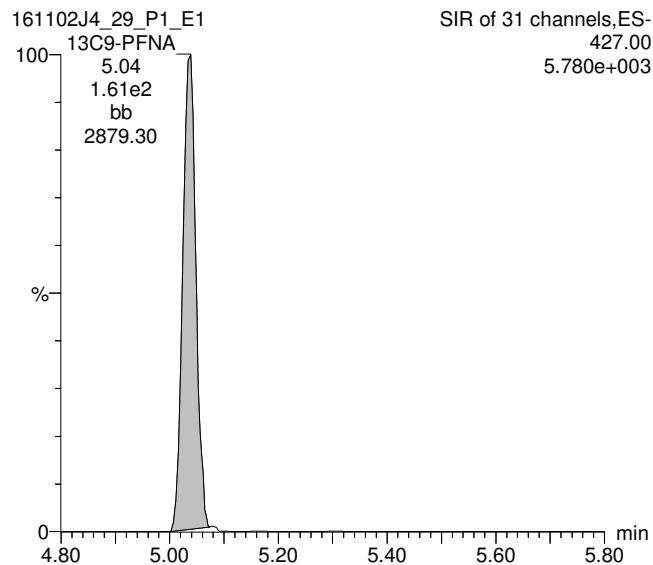
13C8-PFOA



13C4-PFOS



13C9-PFNA



Rev'd: MM-11/8/16

Work Order 1601370

pw 11/4/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_29_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:46:51 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:48:41 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	1.990e4	2.201e2		0.124	4.34	10.1	
2	8 PFOA	368.90	4.015e4	1.693e2		0.124	4.73	18.3	
3	15 13C3-PFBS	79.95	1.600e2	3.289e2	0.549	0.124	3.46	0.0892	88.6
4	16 13C2-PFHxA	269.90	1.238e2	3.289e2	0.897	0.124	3.85	0.0423	105
5	17 13C4-PFHpA	321.90	2.201e2	3.289e2	0.794	0.124	4.33	0.0849	84.3
6	18 18O2-PFHxS	102.90	3.405e1	1.334e2	0.284	0.124	4.45	0.0906	90.0
7	19 13C2-6:2 FTS	408.90	1.520e3	2.221e2	0.280	0.124	4.68	2.47	2450
8	20 13C2-PFOA	369.90	1.693e2	2.221e2	0.809	0.124	4.72	0.0949	94.2
9	21 13C5-PFNA	422.90	1.126e2	1.609e2	1.020	0.124	5.03	0.0691	68.6
10	22 13C8-PFOS	79.93	3.810e1	4.597e1	0.947	0.124	5.09	0.0881	87.5
11	25 13C4-PFBA	171.90	3.482e2	3.482e2	1.000	0.124	2.03	0.101	100
12	26 13C5-PFHxA	273.00	3.289e2	3.289e2	1.000	0.124	3.84	0.101	100
13	27 13C3-PFHxS	80.01	1.334e2	1.334e2	1.000	0.124	4.45	0.101	100
14	28 13C8-PFOA	375.90	2.221e2	2.221e2	1.000	0.124	4.72	0.101	100
15	29 13C4-PFOS	79.94	4.597e1	4.597e1	1.000	0.124	5.09	0.101	100
16	30 13C9-PFNA	427.00	1.609e2	1.609e2	1.000	0.124	5.04	0.101	100
17	31 13C6-PFDA	474.00	5.821e1	5.821e1	1.000	0.124	5.30	0.101	100
18	32 Total PFBS	79.90		1.600e2		0.124		1.80	
19	33 Total PFHxS	79.91		3.405e1		0.124		30.8	
20	34 Total PFOA	368.90		1.693e2		0.124		18.7	
21	35 Total PFOS	79.92		3.810e1		0.124		265	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_29_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:46:51 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:48:41 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	2841.760	160.034	1.8
2	32 Total PFBS	79.90	3.34	42.251	160.034	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.45	33057.574	34.053	30.8

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.73	40151.262	169.302	18.3
2	34 Total PFOA	368.90	4.64	2730.816	169.302	0.4

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	74511.766	38.096	162.2
2	35 Total PFOS	79.92	4.99	47343.406	38.096	103.3

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Last Altered: Friday, November 04, 2016 16:46:51 Pacific Daylight Time

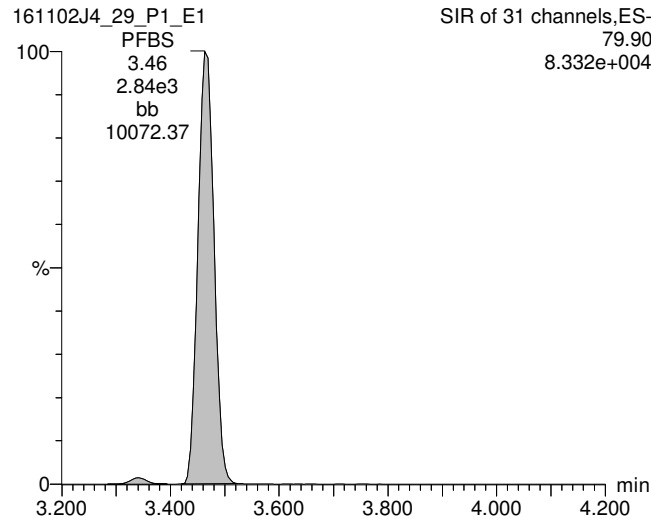
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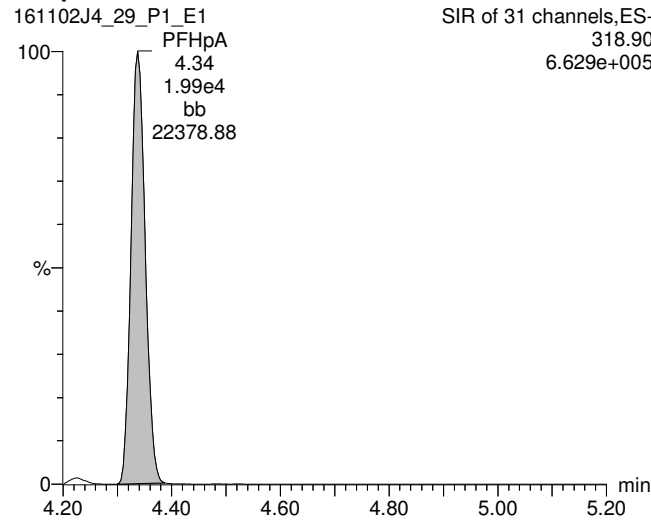
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

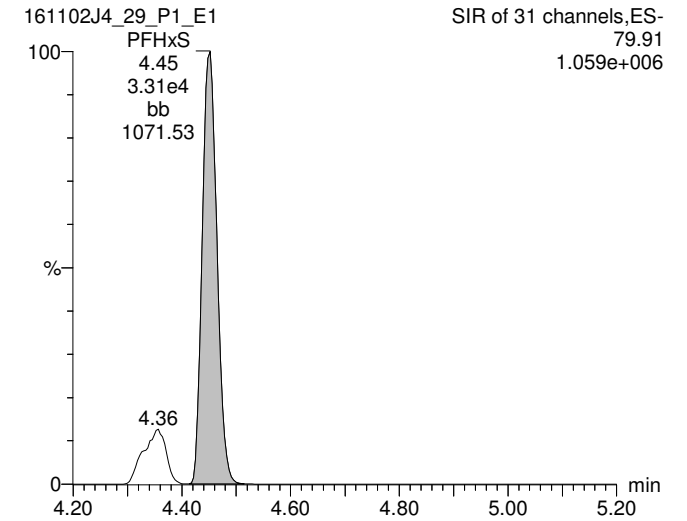
Total PFBS



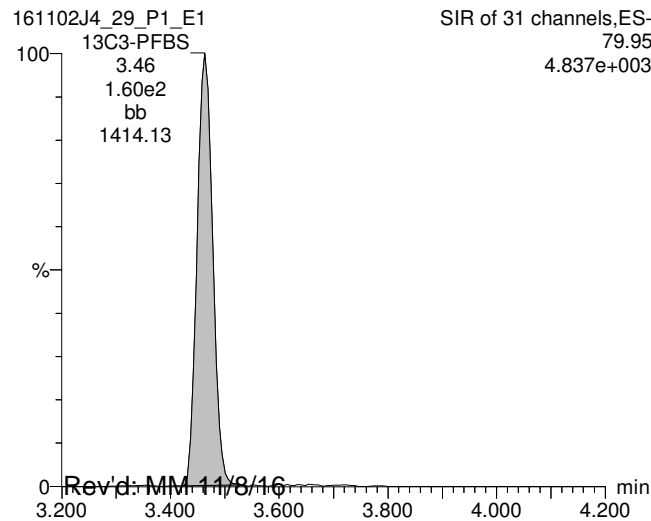
PFHpA



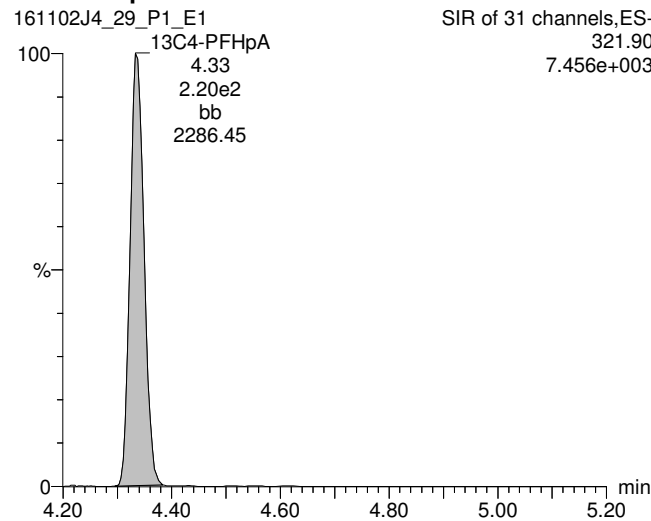
Total PFHxS



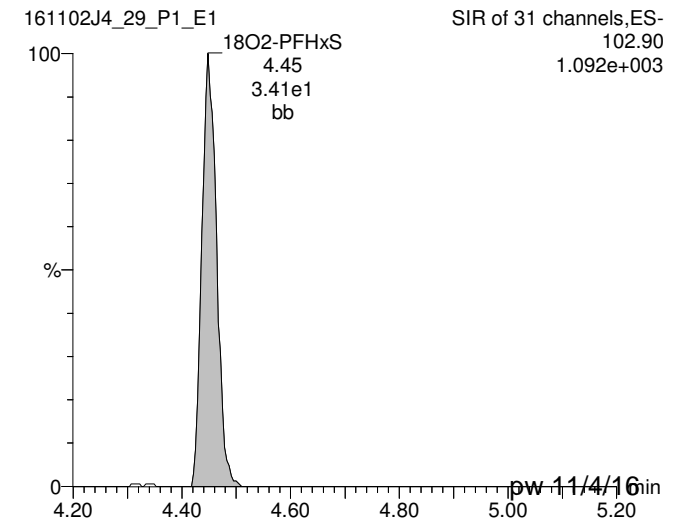
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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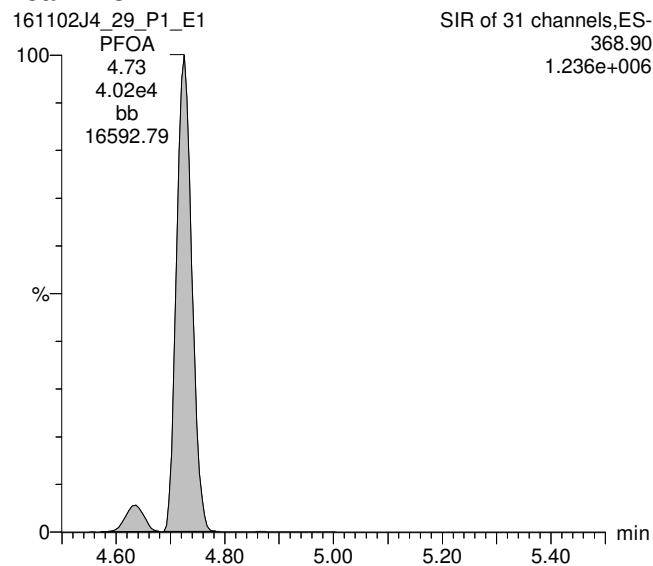
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Last Altered: Friday, November 04, 2016 16:46:51 Pacific Daylight Time

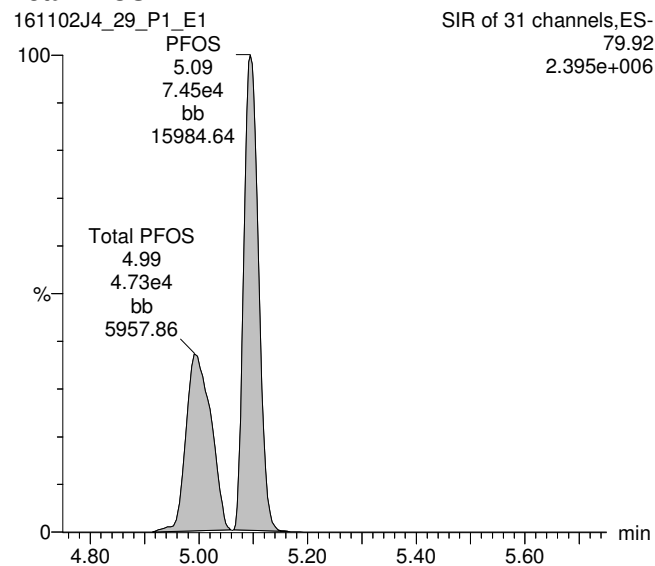
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ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

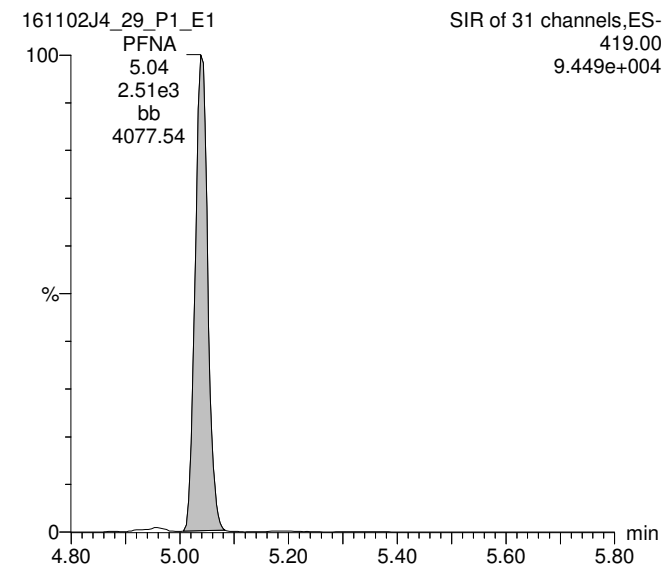
Total PFOA



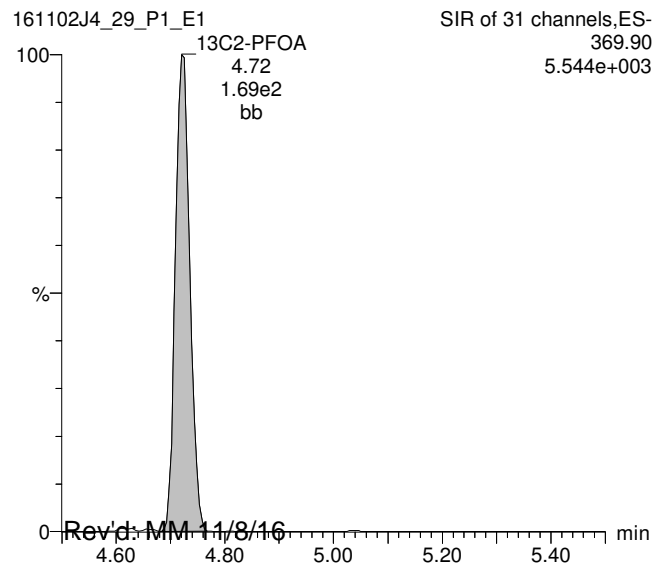
Total PFOS



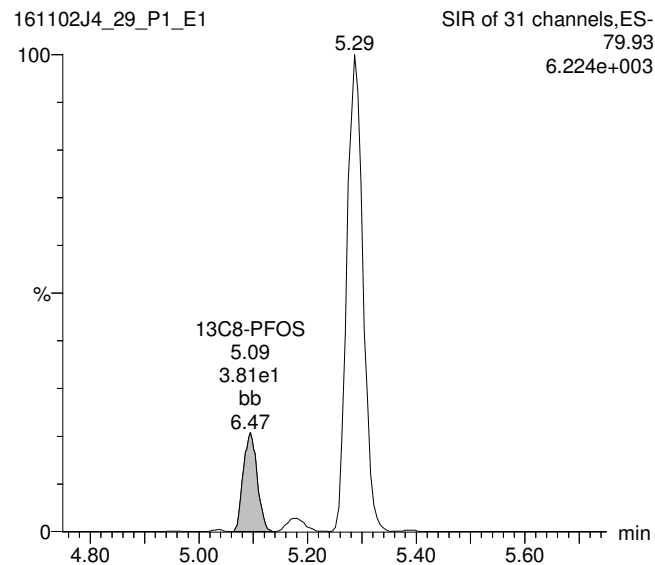
PFNA



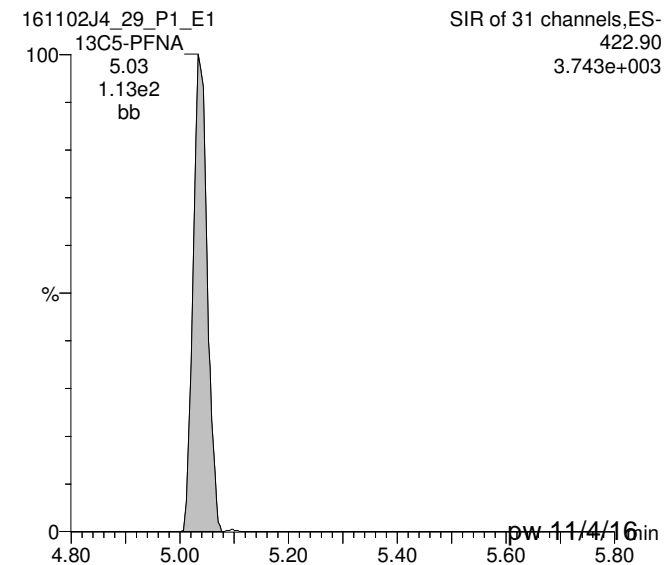
13C2-PFOA



13C8-PFOS



13C5-PFNA



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pw-11/4/16

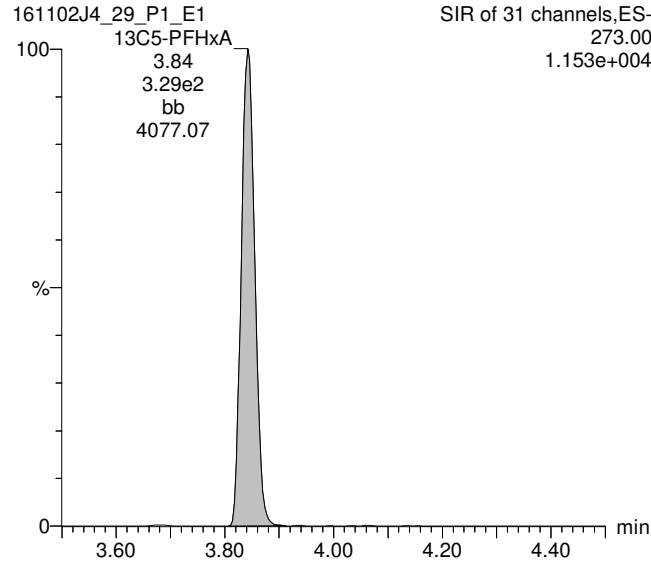
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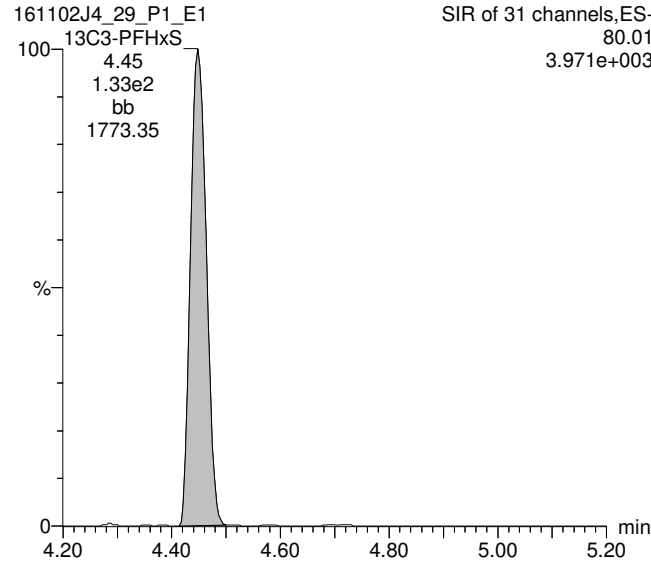
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ID: 1601370-05@40x, Description: OW11-MW7-1016, Name: 161102J4_29.wiff, Date: 03-Nov-2016, Time: 01:40:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

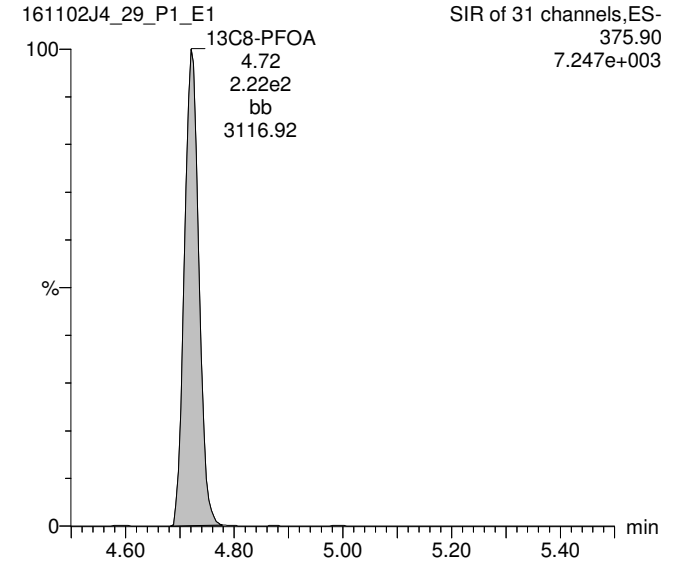
13C5-PFHxA



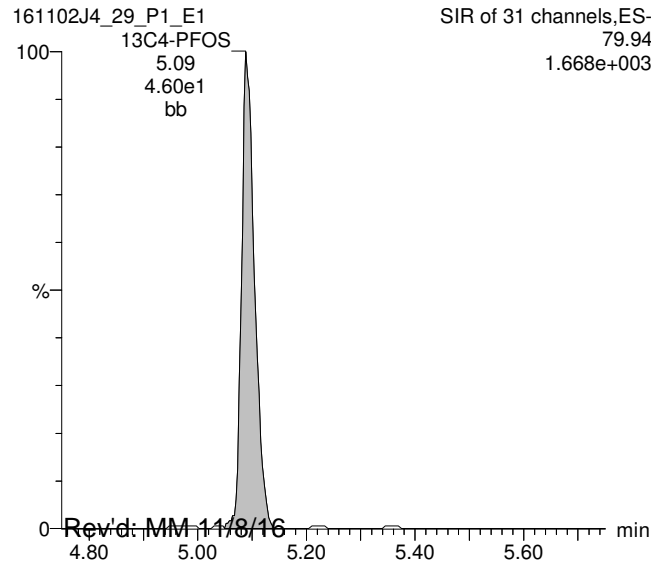
13C3-PFHxS



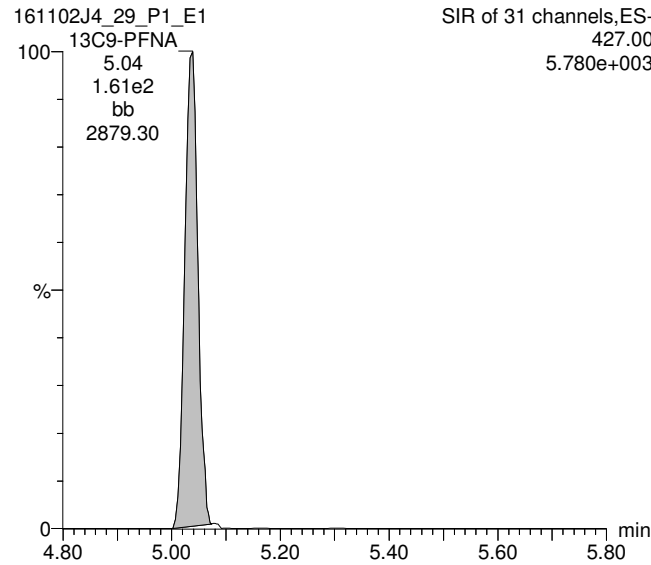
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_33_ugLTarget.qld

Last Altered: Monday, November 07, 2016 08:31:59 Pacific Standard Time

Printed: Monday, November 07, 2016 08:36:45 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	4.355e3	1.741e2		0.121	3.46	3260	
2	6 PFHxS	79.91	2.111e4	3.374e1		0.121	4.44	20600	
3	9 PFNA	419.00	6.296e2	1.293e2		0.121	5.04	596	
4	10 PFOS	79.92	2.975e4	5.768e1		0.121	5.09	43800	E
5	15 13C3-PFBS	79.95	1.741e2	3.612e2	0.549	0.121	3.46	90.8	87.8
6	16 13C2-PFHxA	269.90	1.221e2	3.612e2	0.897	0.121	3.84	39.0	94.3
7	17 13C4-PFHpA	321.90	2.289e2	3.612e2	0.794	0.121	4.33	82.6	79.8
8	18 18O2-PFHxS	102.90	3.374e1	1.146e2	0.284	0.121	4.44	107	104
9	19 13C2-6:2 FTS	408.90	2.716e2	1.807e2	0.280	0.121	4.67	556	538
10	20 13C2-PFOA	369.90	1.371e2	1.807e2	0.809	0.121	4.71	97.0	93.8
11	21 13C5-PFNA	422.90	1.293e2	1.734e2	1.020	0.121	5.04	75.7	73.1
12	22 13C8-PFOS	79.93	5.768e1	7.882e1	0.947	0.121	5.10	80.0	77.3
13	25 13C4-PFBA	171.90	3.728e2	3.728e2	1.000	0.121	2.03	103	100
14	26 13C5-PFHxA	273.00	3.612e2	3.612e2	1.000	0.121	3.84	103	100
15	27 13C3-PFHxS	80.01	1.146e2	1.146e2	1.000	0.121	4.44	103	100
16	28 13C8-PFOA	375.90	1.807e2	1.807e2	1.000	0.121	4.71	103	100
17	29 13C4-PFOS	79.94	7.882e1	7.882e1	1.000	0.121	5.09	103	100
18	30 13C9-PFNA	427.00	1.734e2	1.734e2	1.000	0.121	5.03	103	100
19	31 13C6-PFDA	474.00	9.022e1	9.022e1	1.000	0.121	5.32	103	100
20	32 Total PFBS	79.90		1.741e2		0.121		3330	
21	33 Total PFHxS	79.91		3.374e1		0.121		25500	
22	34 Total PFOA	368.90		1.371e2		0.121		476	
23	35 Total PFOS	79.92		5.768e1		0.121		67000	

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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_33_ugLTarget.qld

Last Altered: Monday, November 07, 2016 08:31:59 Pacific Standard Time

Printed: Monday, November 07, 2016 08:36:45 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4354.770	174.071	3262.7
2	32 Total PFBS	79.90	3.34	89.990	174.071	67.0

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	21112.262	33.737	20572.1
2	33 Total PFHxS	79.91	4.34	5051.078	33.737	4921.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	8320.949	137.089	
2	34 Total PFOA	368.90	4.63	697.027	137.089	476.0

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	29754.307	57.680	43795.6
2	35 Total PFOS	79.92	5.00	15744.122	57.680	23174.2

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_33_ugLTarget.qld

Last Altered: Monday, November 07, 2016 08:31:59 Pacific Standard Time

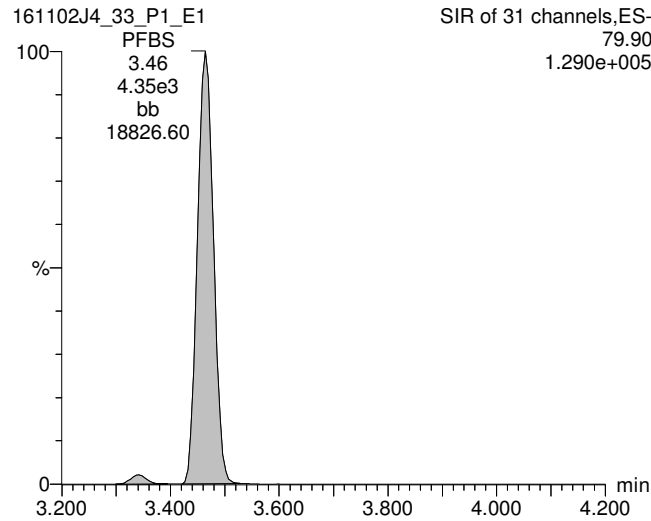
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Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

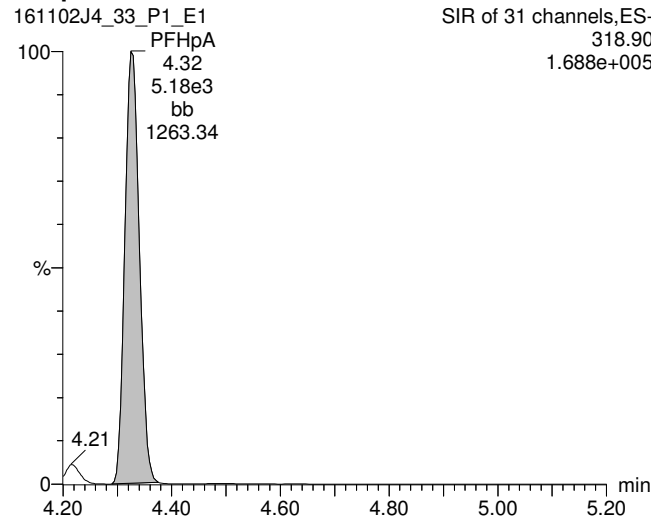
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ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

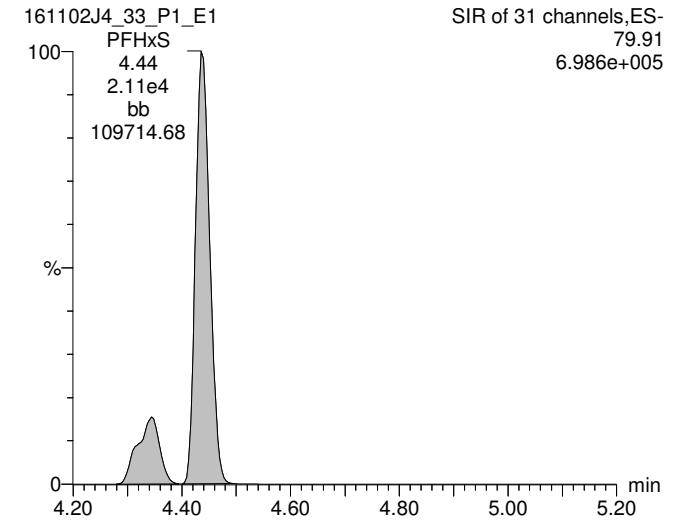
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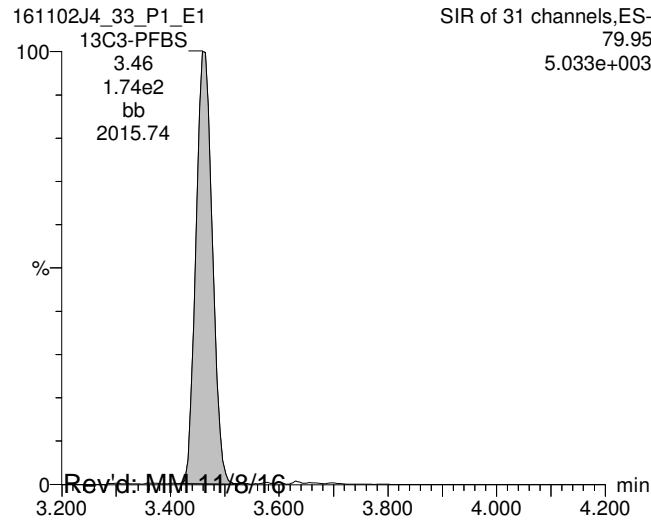
PFHpA



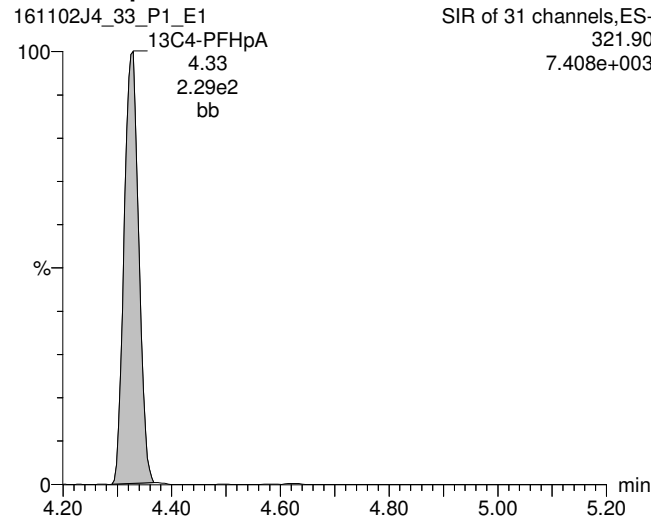
Total PFHxS



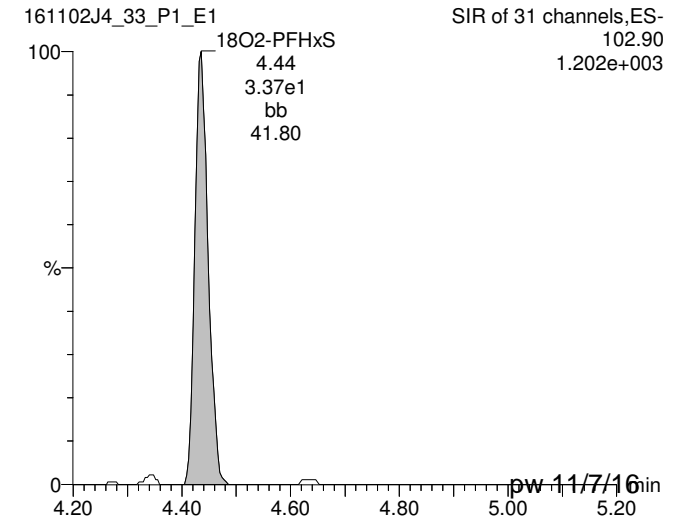
13C3-PFBS



13C4-PFHpA

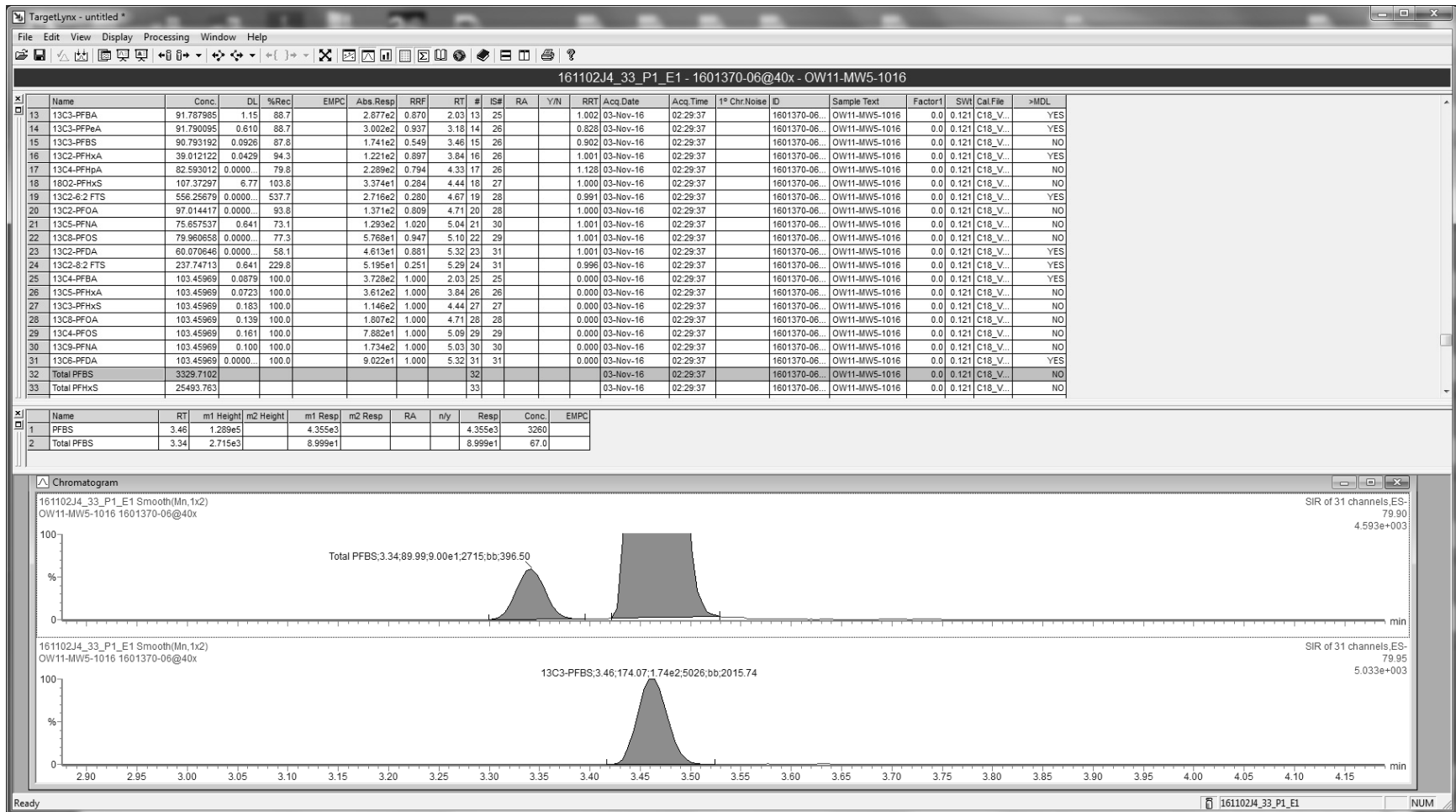


18O2-PFHxS



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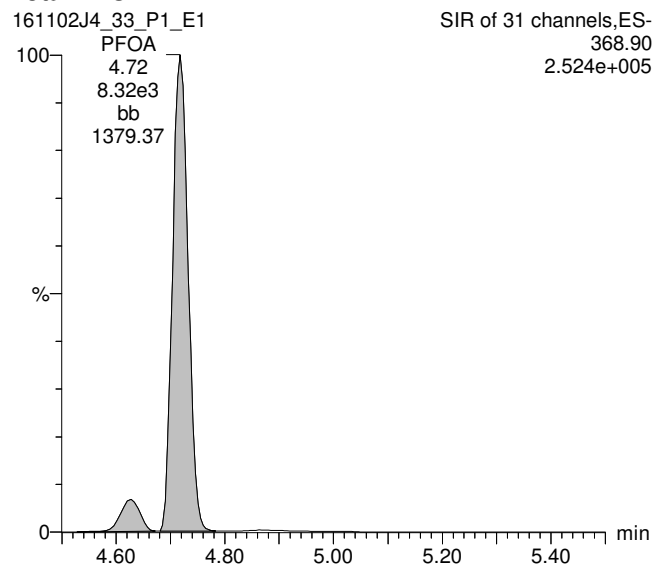
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Last Altered: Monday, November 07, 2016 08:31:59 Pacific Standard Time

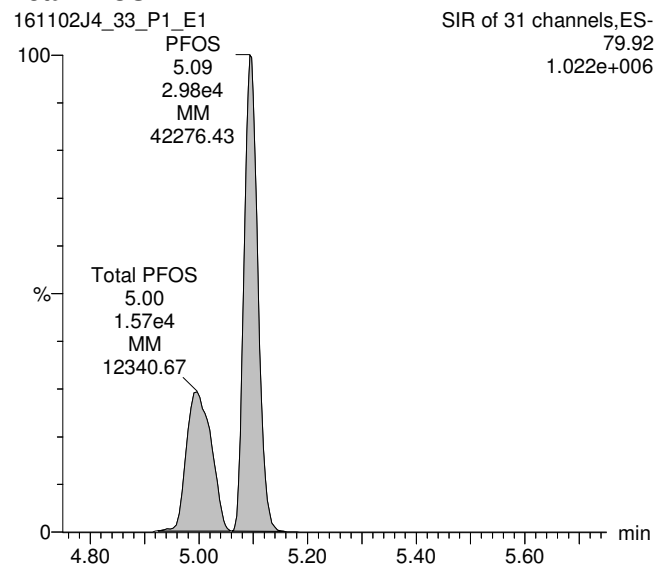
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ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

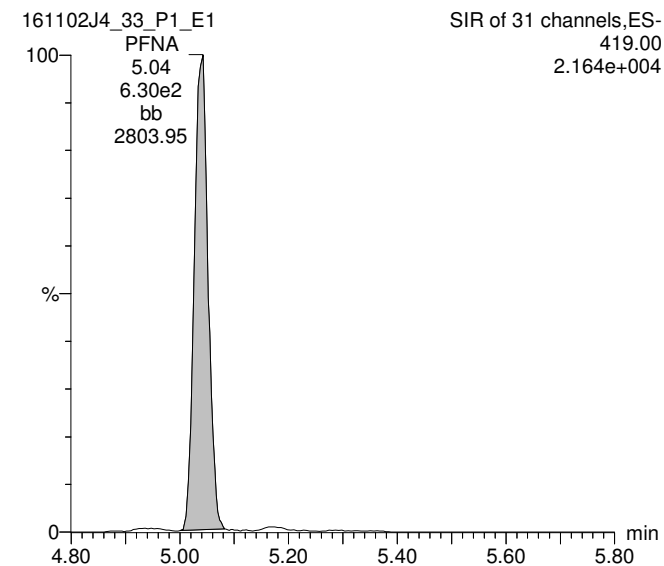
Total PFOA



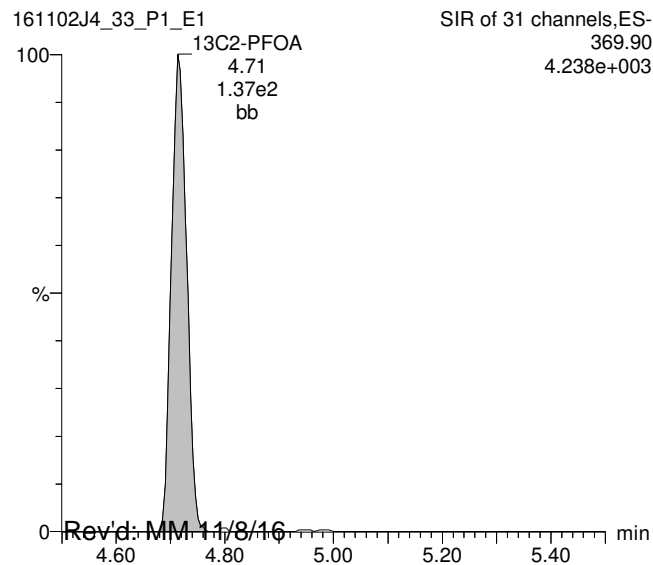
Total PFOS



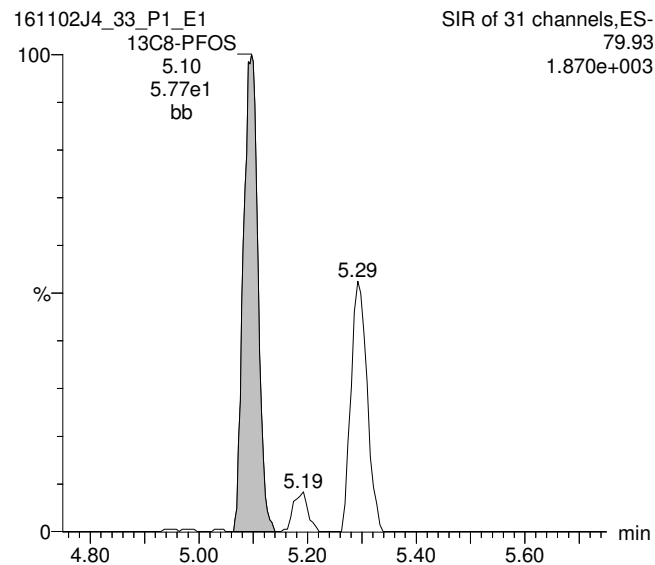
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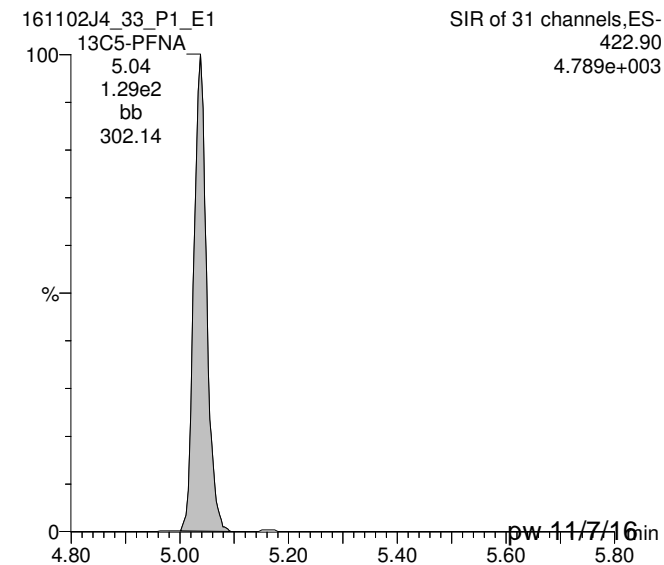
13C2-PFOA



13C8-PFOS



13C5-PFNA



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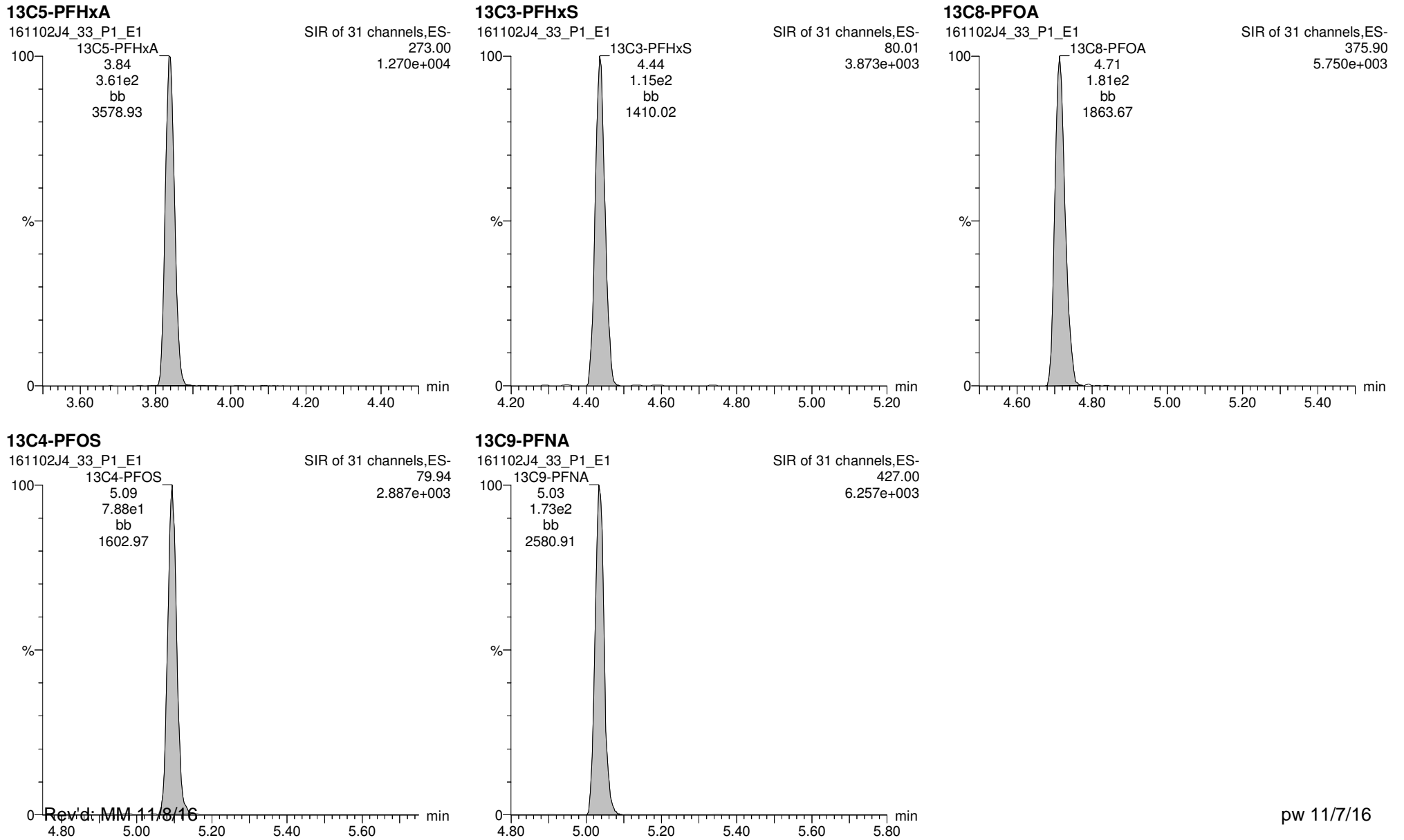
pw-11/7/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_33_ugLTarget.qld

Last Altered: Monday, November 07, 2016 08:31:59 Pacific Standard Time

Printed: Monday, November 07, 2016 08:36:45 Pacific Standard Time

ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37, Instrument: , Lab: ©PE-SCIEX, User: sciex



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_33_ugLTarget.qld

Last Altered: Monday, November 07, 2016 09:46:00 Pacific Standard Time

Printed: Monday, November 07, 2016 09:48:04 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	5.179e3	2.289e2		0.121	4.32	2.48	
2	8 PFOA	368.90	8.321e3	1.371e2		0.121	4.72	4.10	
3	15 13C3-PFBS	79.95	1.741e2	3.612e2	0.549	0.121	3.46	0.0908	87.8
4	16 13C2-PFHxA	269.90	1.221e2	3.612e2	0.897	0.121	3.84	0.0390	94.3
5	17 13C4-PFHpA	321.90	2.289e2	3.612e2	0.794	0.121	4.33	0.0826	79.8
6	18 18O2-PFHxS	102.90	3.374e1	1.146e2	0.284	0.121	4.44	0.107	104
7	19 13C2-6:2 FTS	408.90	2.716e2	1.807e2	0.280	0.121	4.67	0.556	538
8	20 13C2-PFOA	369.90	1.371e2	1.807e2	0.809	0.121	4.71	0.0970	93.8
9	21 13C5-PFNA	422.90	1.293e2	1.734e2	1.020	0.121	5.04	0.0757	73.1
10	22 13C8-PFOS	79.93	5.768e1	7.882e1	0.947	0.121	5.10	0.0800	77.3
11	25 13C4-PFBA	171.90	3.728e2	3.728e2	1.000	0.121	2.03	0.103	100
12	26 13C5-PFHxA	273.00	3.612e2	3.612e2	1.000	0.121	3.84	0.103	100
13	27 13C3-PFHxS	80.01	1.146e2	1.146e2	1.000	0.121	4.44	0.103	100
14	28 13C8-PFOA	375.90	1.807e2	1.807e2	1.000	0.121	4.71	0.103	100
15	29 13C4-PFOS	79.94	7.882e1	7.882e1	1.000	0.121	5.09	0.103	100
16	30 13C9-PFNA	427.00	1.734e2	1.734e2	1.000	0.121	5.03	0.103	100
17	31 13C6-PFDA	474.00	9.022e1	9.022e1	1.000	0.121	5.32	0.103	100
18	32 Total PFBS	79.90		1.741e2		0.121		2.79	
19	33 Total PFHxS	79.91		3.374e1		0.121		24.9	
20	34 Total PFOA	368.90		1.371e2		0.121		4.10	
21	35 Total PFOS	79.92		5.768e1		0.121		68.8	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_33_ugLTarget.qld

Last Altered: Monday, November 07, 2016 09:46:00 Pacific Standard Time

Printed: Monday, November 07, 2016 09:48:04 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4354.770	174.071	2.8
2	32 Total PFBS	79.90	3.34	89.990	174.071	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	21112.262	33.737	20.3
2	33 Total PFHxS	79.91	4.34	5051.078	33.737	4.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	8320.949	137.089	4.1
2	34 Total PFOA	368.90	4.63	697.027	137.089	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	29690.893	57.680	44.3
2	35 Total PFOS	79.92	5.00	15747.419	57.680	23.8
3	35 Total PFOS	79.92	4.94	121.106	57.680	0.8

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_33_ugLTarget.qld

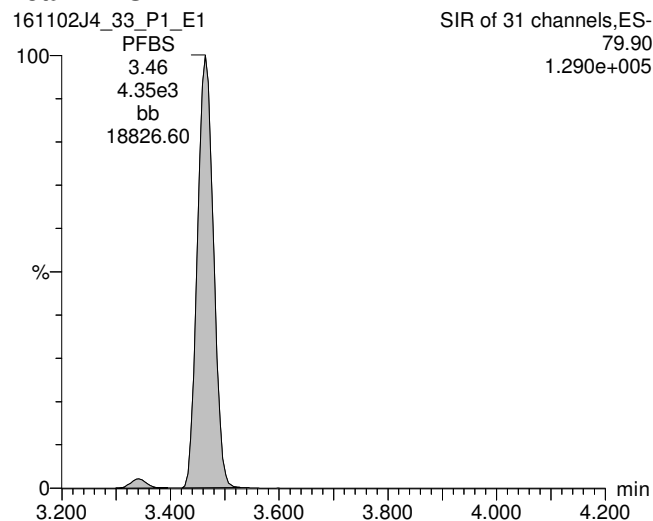
Last Altered: Monday, November 07, 2016 09:46:00 Pacific Standard Time

Printed: Monday, November 07, 2016 09:48:04 Pacific Standard Time

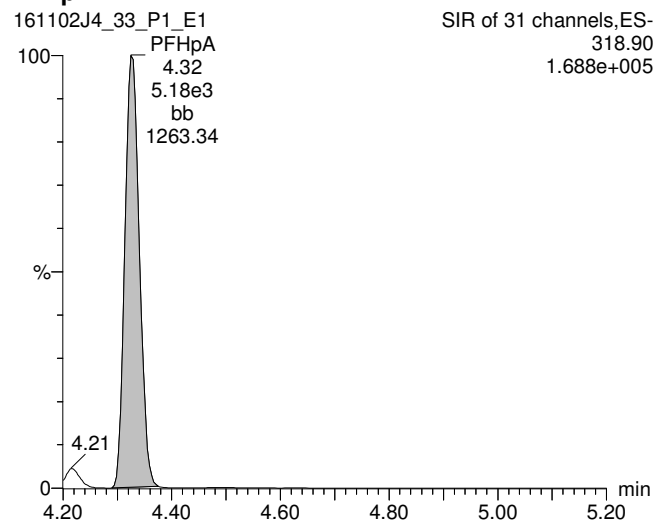
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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

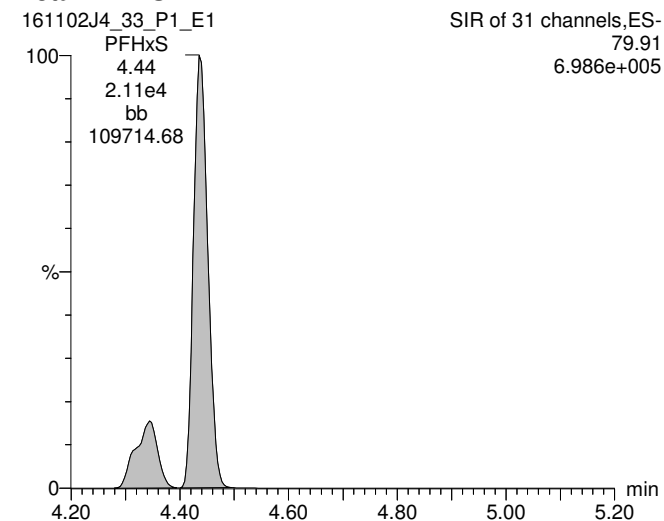
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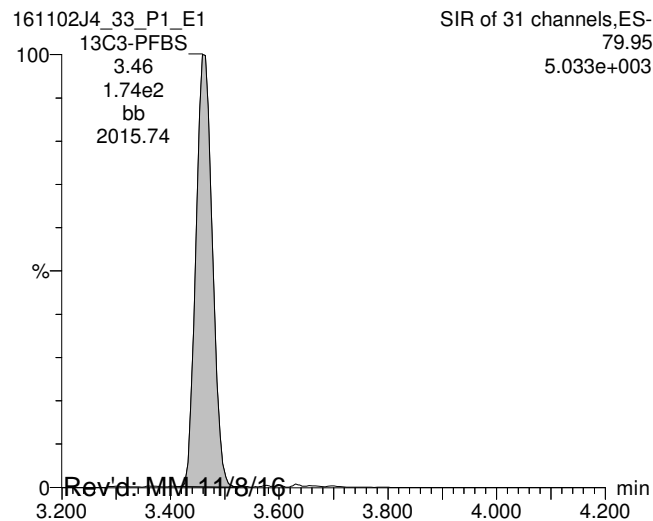
PFHpA



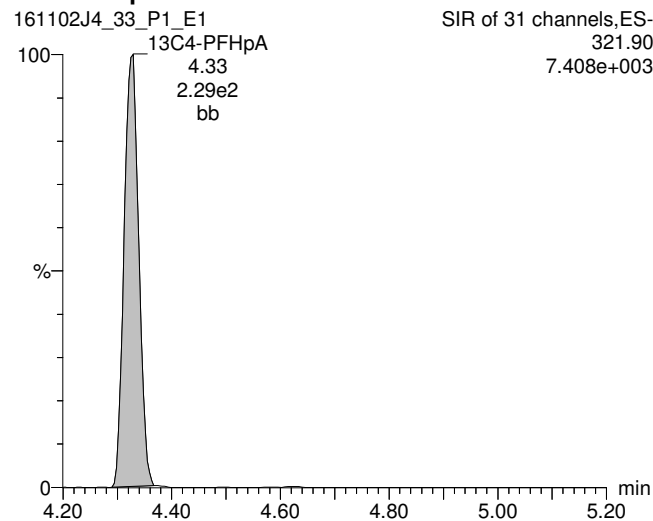
Total PFHxS



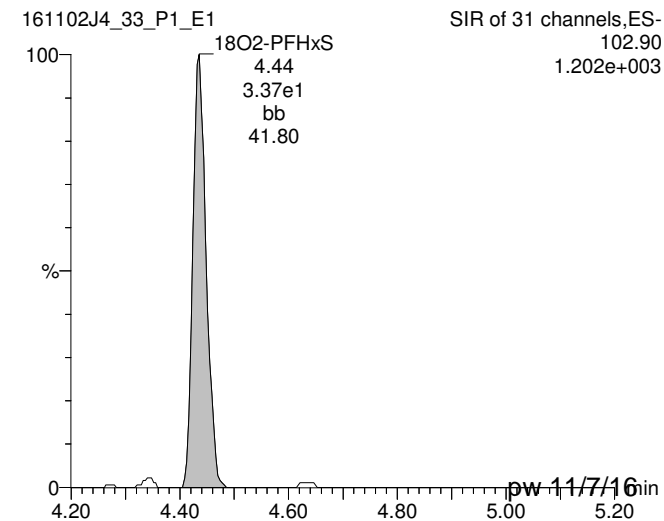
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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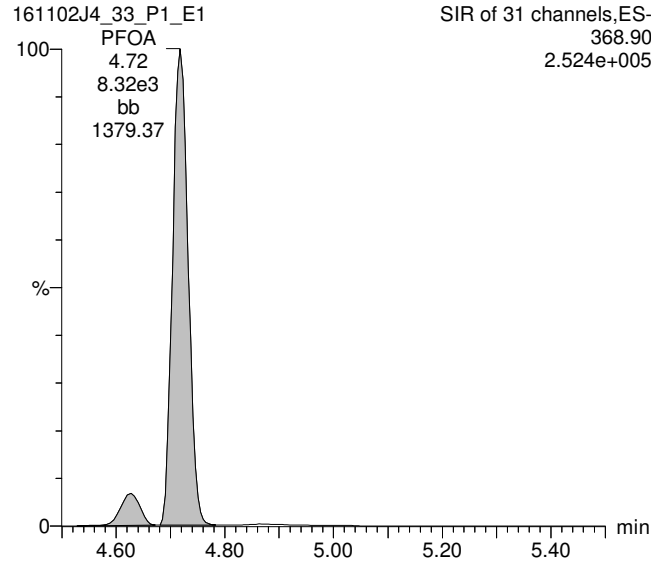
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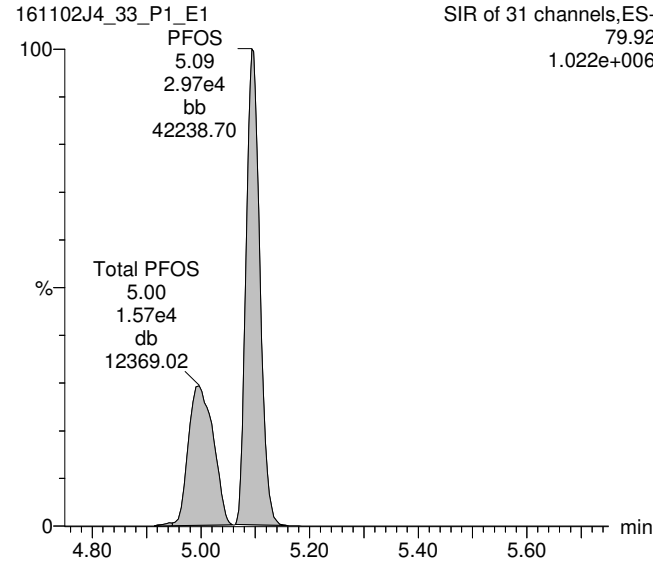
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ID: 1601370-06@40x, Description: OW11-MW5-1016, Name: 161102J4_33.wiff, Date: 03-Nov-2016, Time: 02:29:37, Instrument: , Lab: ©PE-SCIEX, User: sciex

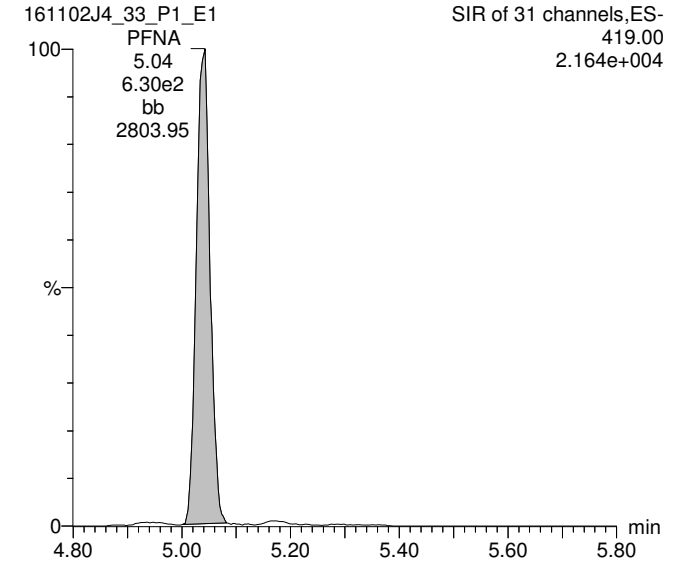
Total PFOA



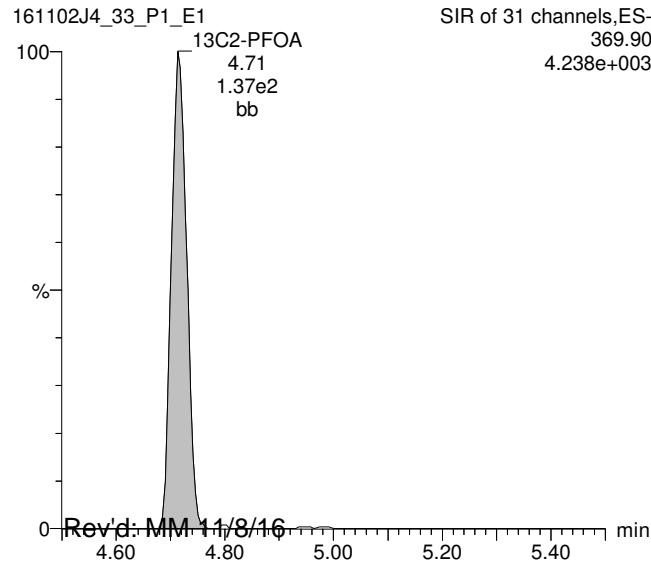
Total PFOS



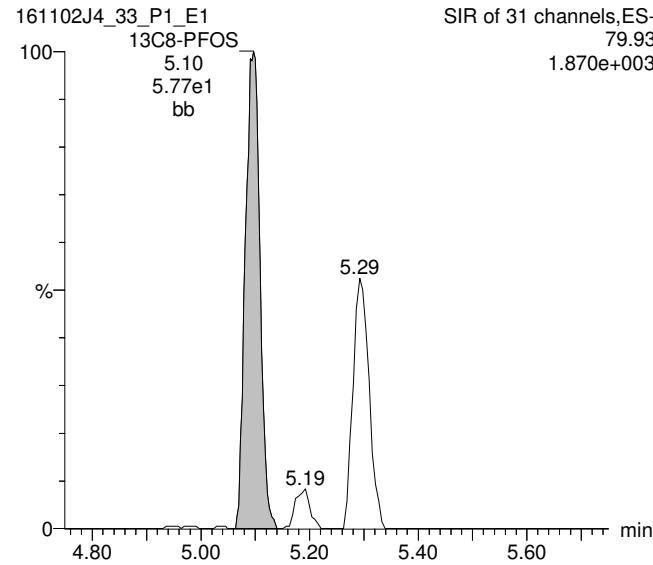
PFNA



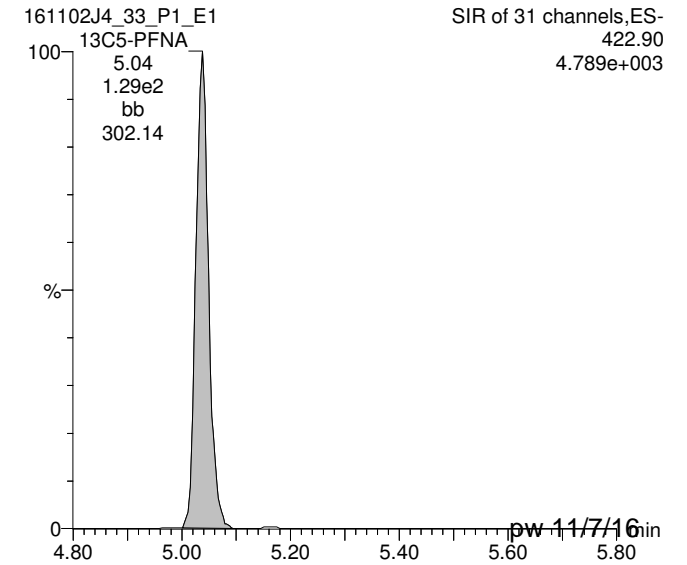
13C2-PFOA



13C8-PFOS



13C5-PFNA



Rev'd: MM-11/8/16

pw-11/7/16

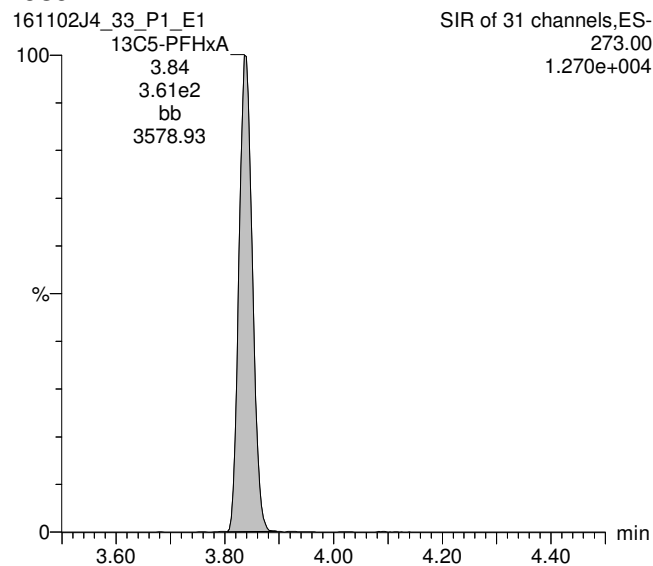
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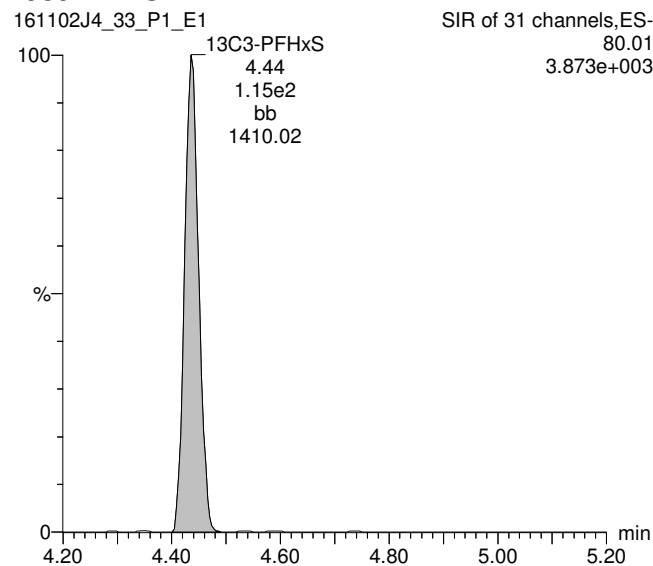
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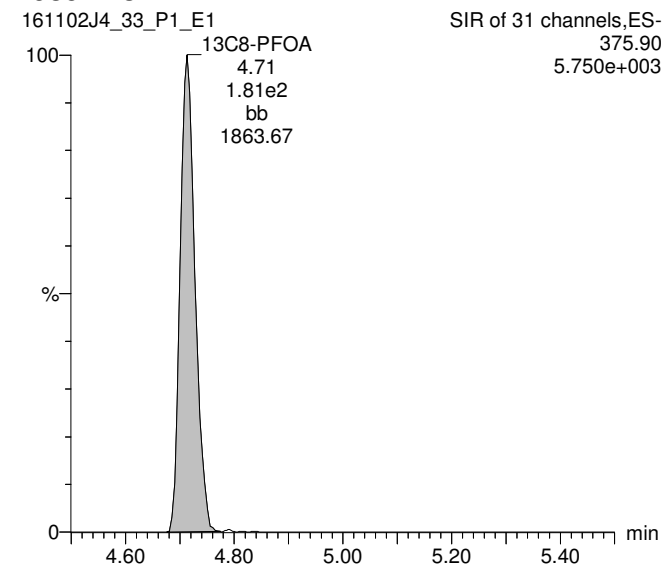
13C5-PFHxA



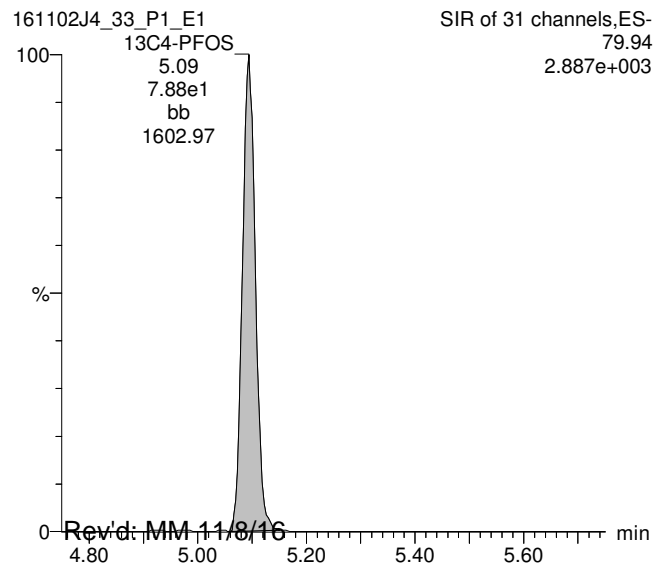
13C3-PFHxS



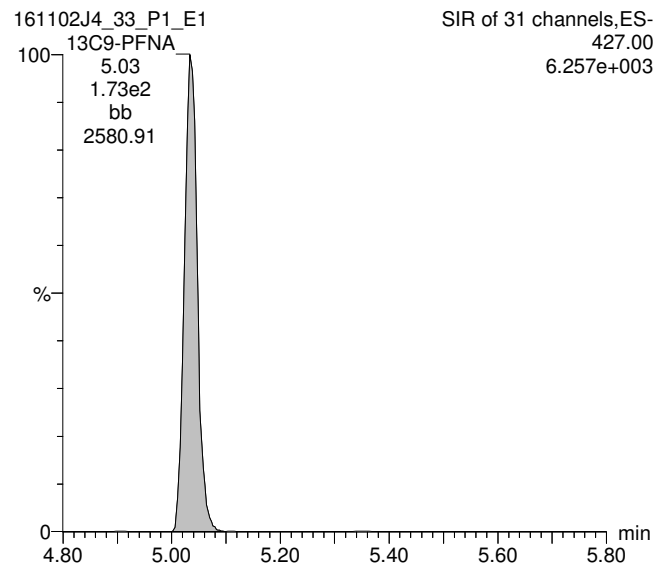
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_21_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:19:19 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:20:02 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	4.507e3	1.534e2		0.125	3.46	3700	
2	6 PFHxS	79.91	1.944e4	2.506e1		0.125	4.44	24600	
3	8 PFOA	368.90	7.402e3	1.072e2		0.125	4.72		
4	9 PFNA	419.00	7.217e2	1.253e2		0.125	5.03	681	
5	10 PFOS	79.92	2.146e4	4.040e1		0.125	5.09	43500 E	
6	15 13C3-PFBS	79.95	1.534e2	3.384e2	0.549	0.125	3.46	82.4	82.5
7	16 13C2-PFHxA	269.90	1.148e2	3.384e2	0.897	0.125	3.84	37.8	94.6
8	17 13C4-PFHpA	321.90	2.046e2	3.384e2	0.794	0.125	4.33	76.1	76.2
9	18 18O2-PFHxS	102.90	2.506e1	1.091e2	0.284	0.125	4.44	80.9	81.0
10	19 13C2-6:2 FTS	408.90	2.336e2	1.574e2	0.280	0.125	4.67	531	531
11	20 13C2-PFOA	369.90	1.072e2	1.574e2	0.809	0.125	4.71	84.1	84.2
12	21 13C5-PFNA	422.90	1.253e2	1.721e2	1.020	0.125	5.03	71.3	71.4
13	22 13C8-PFOS	79.93	4.040e1	5.662e1	0.947	0.125	5.09	75.3	75.4
14	25 13C4-PFBA	171.90	3.426e2	3.426e2	1.000	0.125	2.03	99.9	100
15	26 13C5-PFHxA	273.00	3.384e2	3.384e2	1.000	0.125	3.84	99.9	100
16	27 13C3-PFHxS	80.01	1.091e2	1.091e2	1.000	0.125	4.44	99.9	100
17	28 13C8-PFOA	375.90	1.574e2	1.574e2	1.000	0.125	4.71	99.9	100
18	29 13C4-PFOS	79.94	5.662e1	5.662e1	1.000	0.125	5.09	99.9	100
19	30 13C9-PFNA	427.00	1.721e2	1.721e2	1.000	0.125	5.03	99.9	100
20	31 13C6-PFDA	474.00	6.607e1	6.607e1	1.000	0.125	5.31	99.9	100
21	32 Total PFBS	79.90		1.534e2		0.125		3770	
22	33 Total PFHxS	79.91		2.506e1		0.125		30700	
23	34 Total PFOA	368.90		1.072e2		0.125		676	
24	35 Total PFOS	79.92		4.040e1		0.125		67600	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_21_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:19:19 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:20:02 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4506.973	153.389	3700.2
2	32 Total PFBS	79.90	3.34	91.263	153.389	74.5

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	19437.281	25.057	24622.7
2	33 Total PFHxS	79.91	4.34	4835.465	25.057	6125.2

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	7401.840	107.162	
2	34 Total PFOA	368.90	4.63	749.794	107.162	675.8

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	21459.801	40.404	43539.6
2	35 Total PFOS	79.92	4.99	11847.401	40.404	24037.3

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_21_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:19:19 Pacific Daylight Time

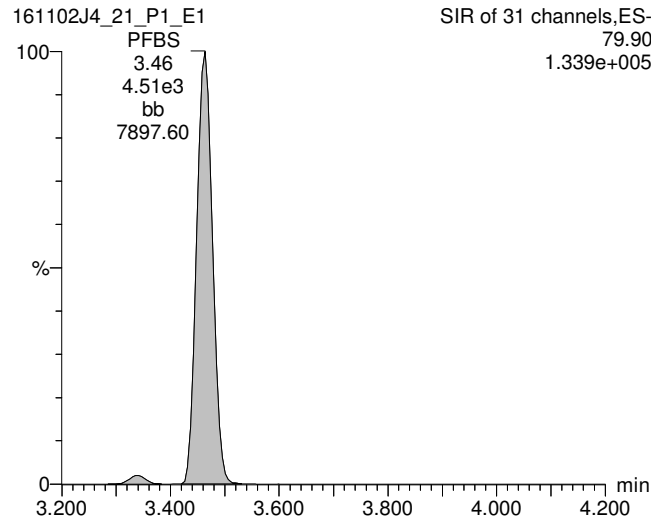
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Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

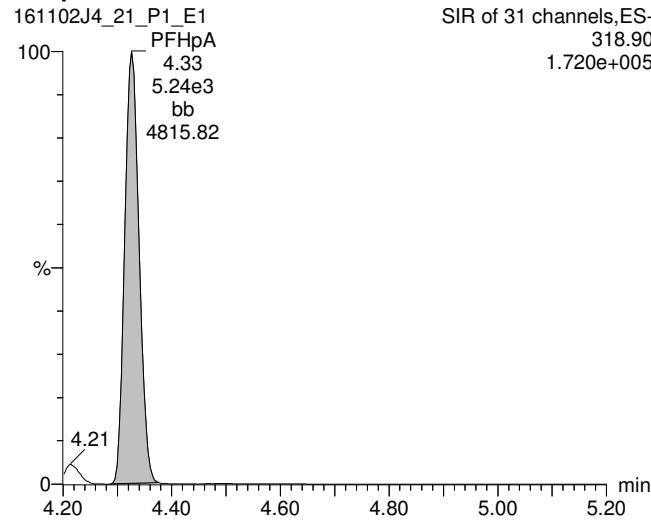
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43, Instrument: , Lab: ©PE-SCIEX, User: sciex

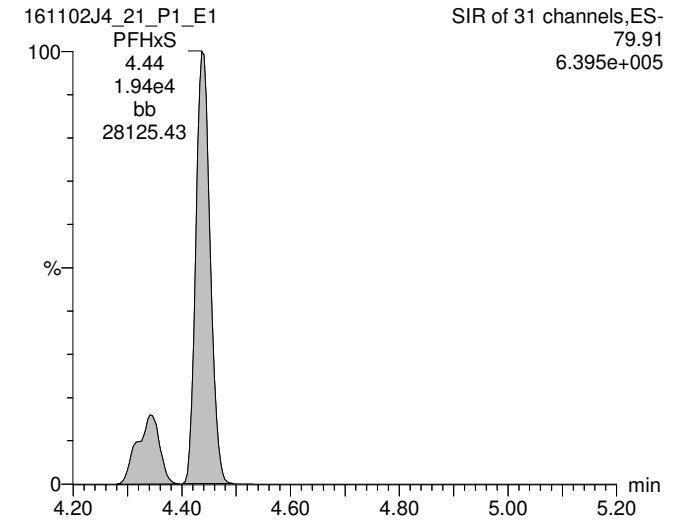
Total PFBS



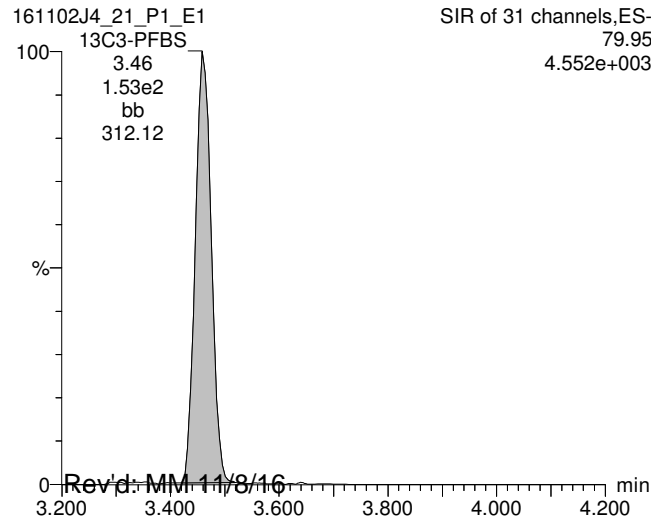
PFHpA



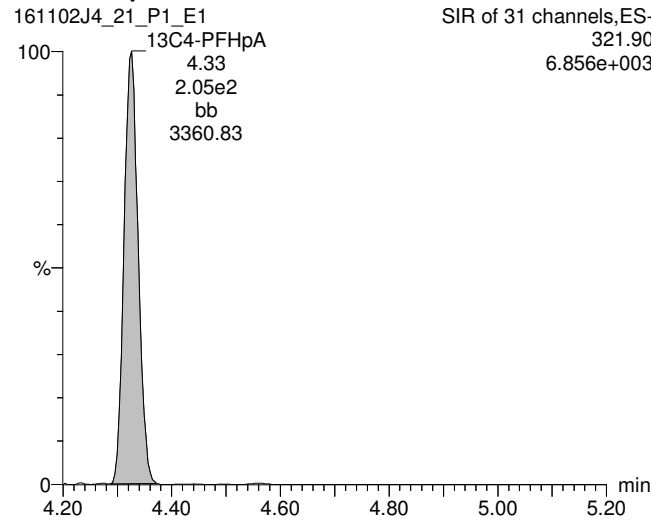
Total PFHxS



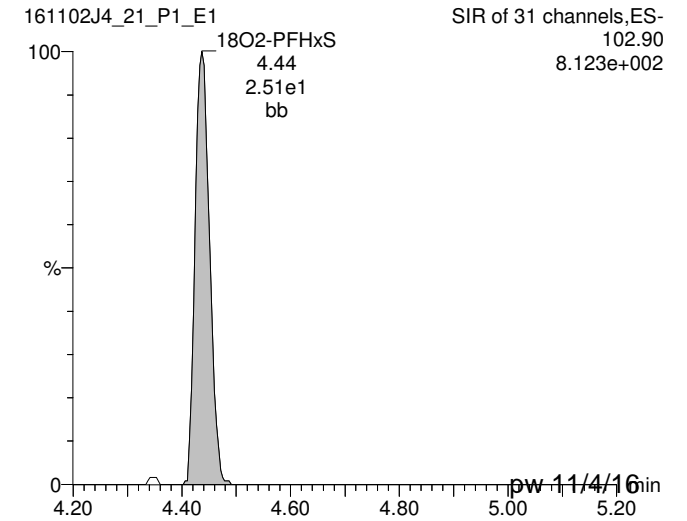
13C3-PFBS



13C4-PFHpA

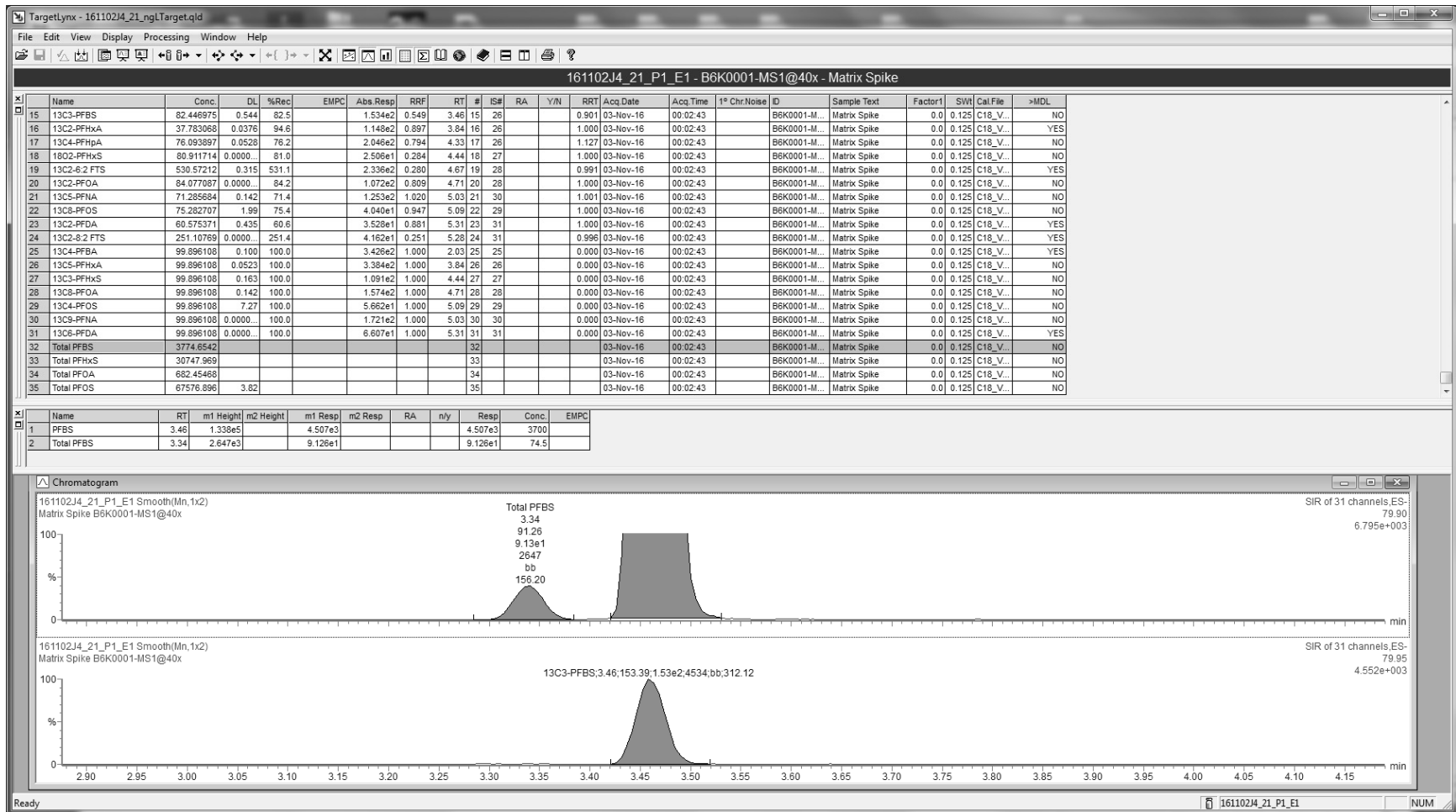


18O2-PFHxS



Rev'd: MM 11/8/16

pw 11/4/16



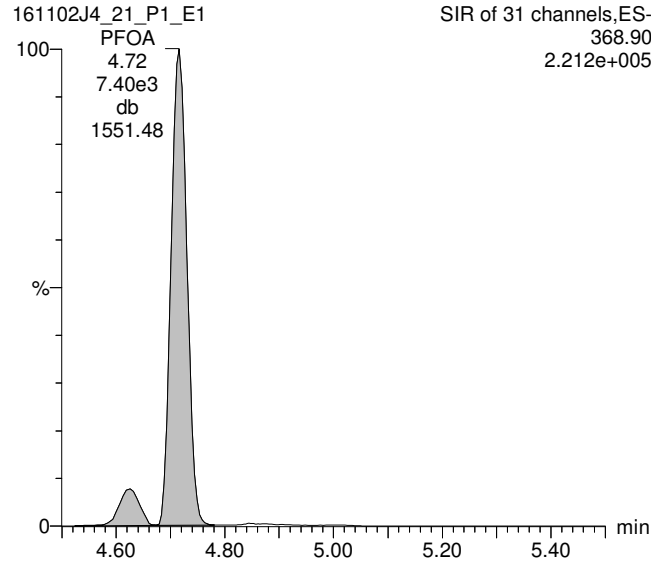
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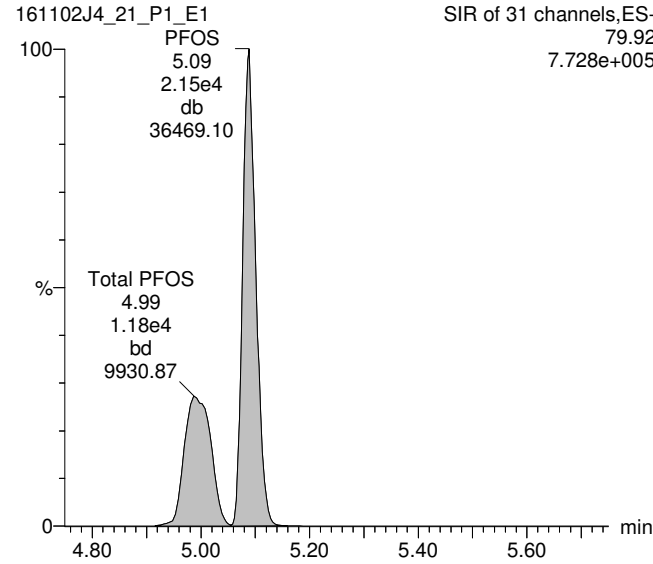
Printed: Friday, November 04, 2016 16:20:02 Pacific Daylight Time

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43, Instrument: , Lab: ©PE-SCIEX, User: sciex

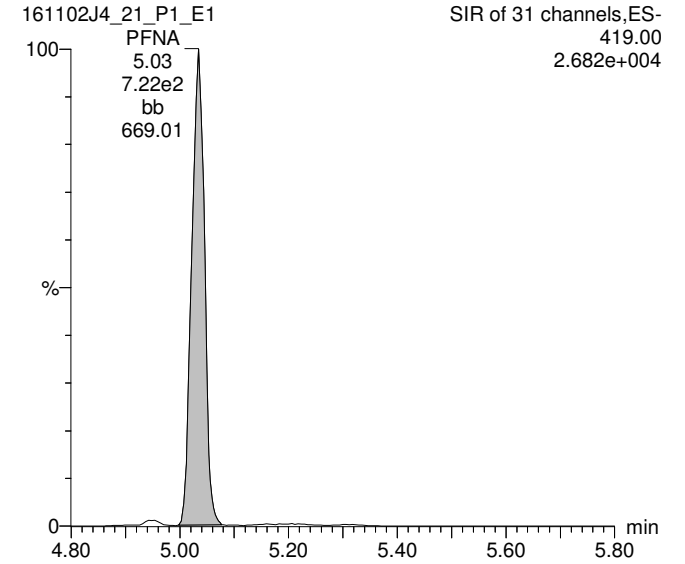
Total PFOA



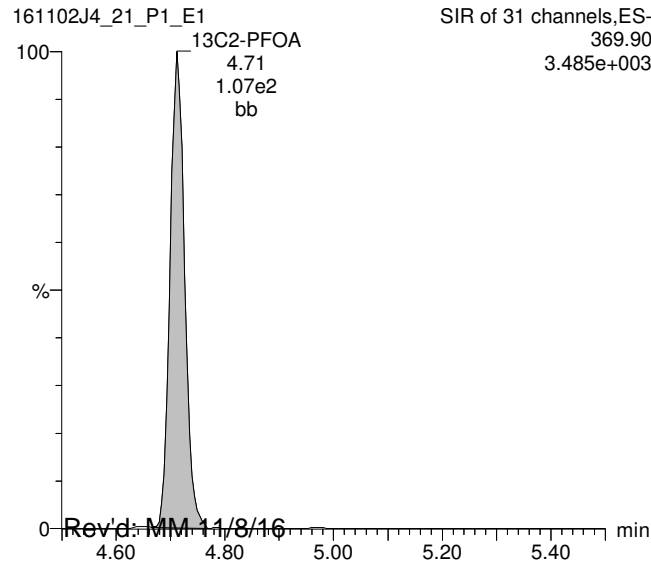
Total PFOS



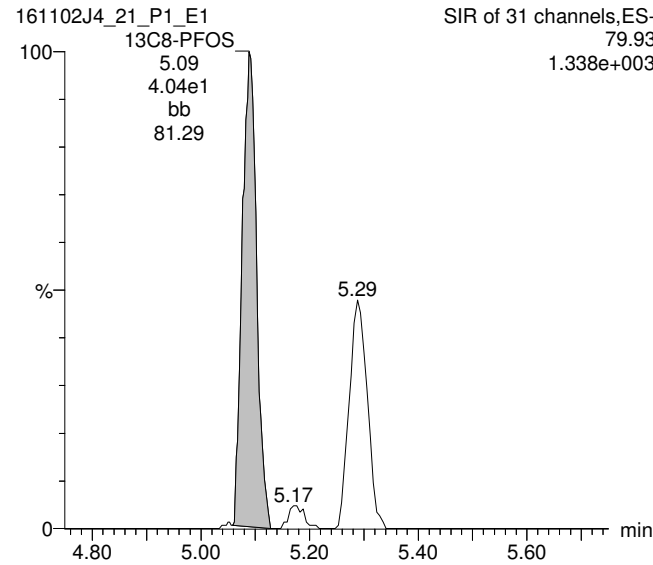
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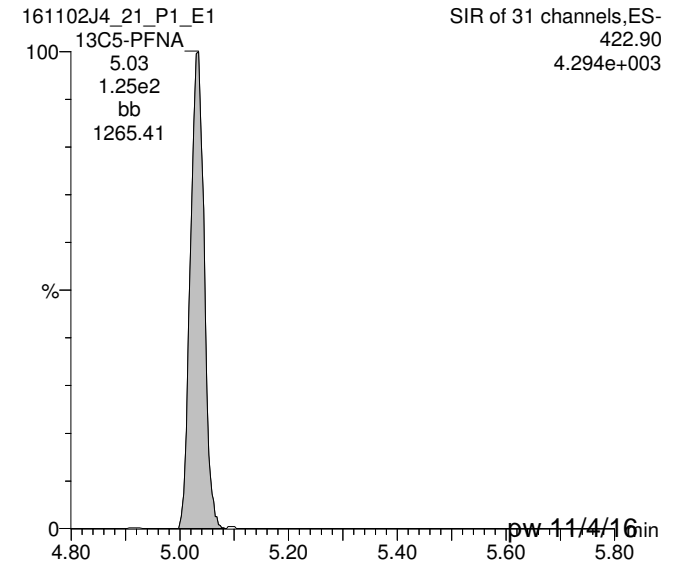
13C2-PFOA



13C8-PFOS



13C5-PFNA



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pw-11/4/16

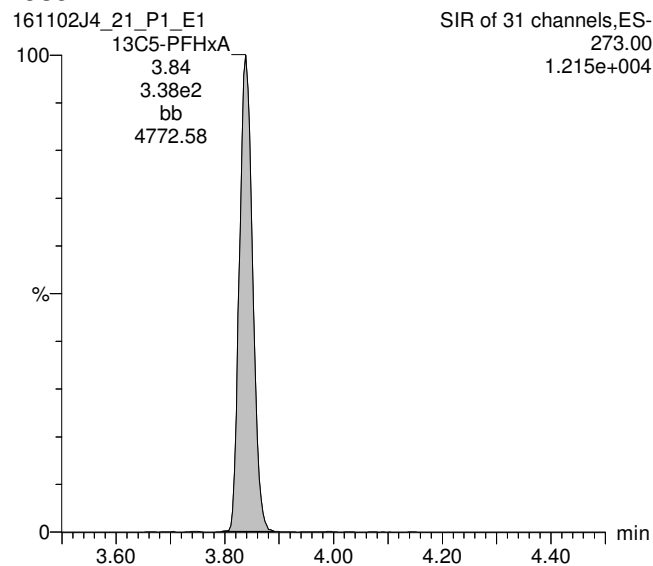
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Last Altered: Friday, November 04, 2016 16:19:19 Pacific Daylight Time

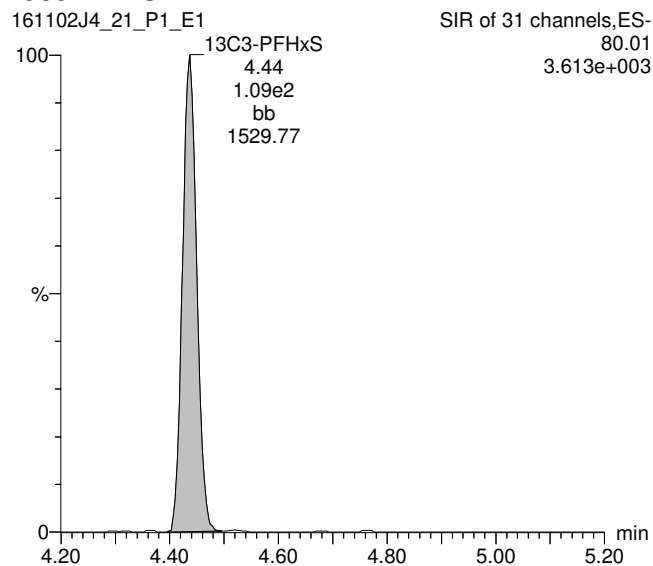
Printed: Friday, November 04, 2016 16:20:02 Pacific Daylight Time

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43, Instrument: , Lab: ©PE-SCIEX, User: sciex

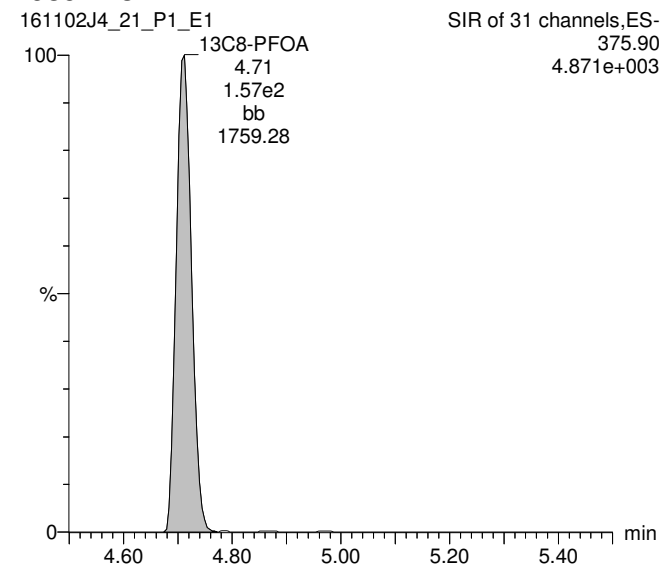
13C5-PFHxA



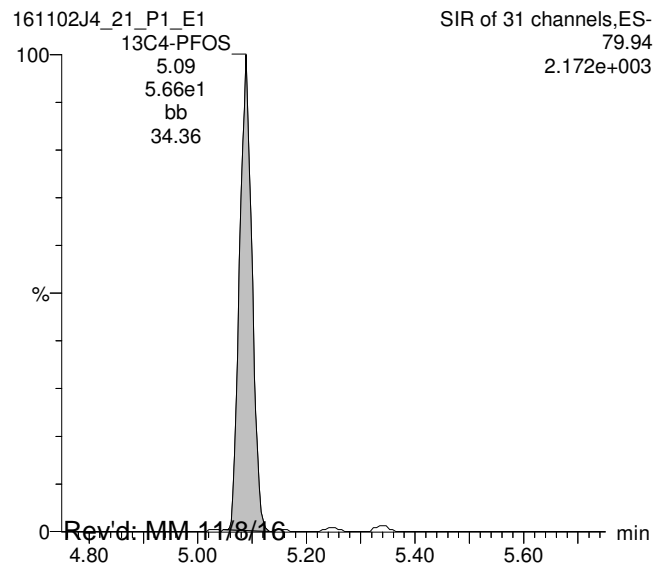
13C3-PFHxS



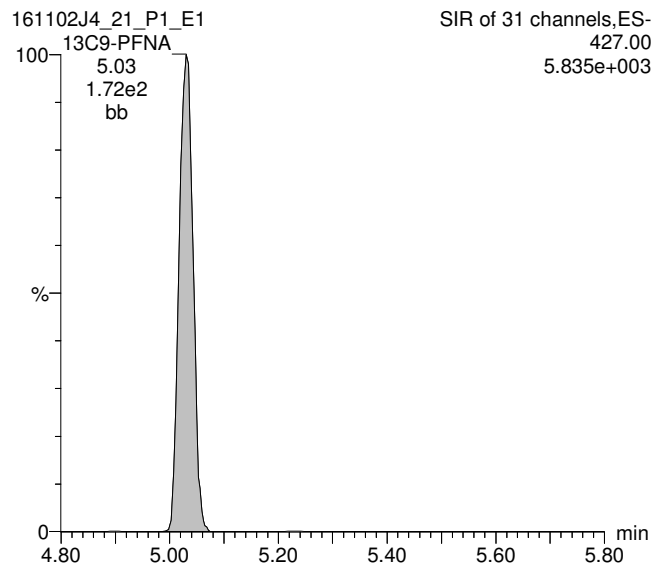
13C8-PFOA



13C4-PFOS



13C9-PFNA



Rev'd: MM 11/8/16

Work Order 1601370

pw 11/4/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_21_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:25:08 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:25:37 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	5.240e3	2.046e2		0.125	4.33	2.73	
2	8 PFOA	368.90	7.402e3	1.072e2		0.125	4.72	4.63	
3	15 13C3-PFBS	79.95	1.534e2	3.384e2	0.549	0.125	3.46	0.0824	82.5
4	16 13C2-PFHxA	269.90	1.148e2	3.384e2	0.897	0.125	3.84	0.0378	94.6
5	17 13C4-PFHpA	321.90	2.046e2	3.384e2	0.794	0.125	4.33	0.0761	76.2
6	18 18O2-PFHxS	102.90	2.506e1	1.091e2	0.284	0.125	4.44	0.0809	81.0
7	19 13C2-6:2 FTS	408.90	2.336e2	1.574e2	0.280	0.125	4.67	0.531	531
8	20 13C2-PFOA	369.90	1.072e2	1.574e2	0.809	0.125	4.71	0.0841	84.2
9	21 13C5-PFNA	422.90	1.253e2	1.721e2	1.020	0.125	5.03	0.0713	71.4
10	22 13C8-PFOS	79.93	4.040e1	5.662e1	0.947	0.125	5.09	0.0753	75.4
11	25 13C4-PFBA	171.90	3.426e2	3.426e2	1.000	0.125	2.03	0.0999	100
12	26 13C5-PFHxA	273.00	3.384e2	3.384e2	1.000	0.125	3.84	0.0999	100
13	27 13C3-PFHxS	80.01	1.091e2	1.091e2	1.000	0.125	4.44	0.0999	100
14	28 13C8-PFOA	375.90	1.574e2	1.574e2	1.000	0.125	4.71	0.0999	100
15	29 13C4-PFOS	79.94	5.662e1	5.662e1	1.000	0.125	5.09	0.0999	100
16	30 13C9-PFNA	427.00	1.721e2	1.721e2	1.000	0.125	5.03	0.0999	100
17	31 13C6-PFDA	474.00	6.607e1	6.607e1	1.000	0.125	5.31	0.0999	100
18	32 Total PFBS	79.90		1.534e2		0.125		3.25	
19	33 Total PFHxS	79.91		2.506e1		0.125		30.2	
20	34 Total PFOA	368.90		1.072e2		0.125		4.63	
21	35 Total PFOS	79.92		4.040e1		0.125		68.7	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_21_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:25:08 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:25:37 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4506.973	153.389	3.2
2	32 Total PFBS	79.90	3.34	91.263	153.389	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	19437.281	25.057	24.3
2	33 Total PFHxS	79.91	4.34	4835.465	25.057	5.8

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	7401.840	107.162	4.6
2	34 Total PFOA	368.90	4.63	749.794	107.162	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	21459.801	40.404	44.1
2	35 Total PFOS	79.92	4.99	11847.401	40.404	24.6

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_21_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:25:08 Pacific Daylight Time

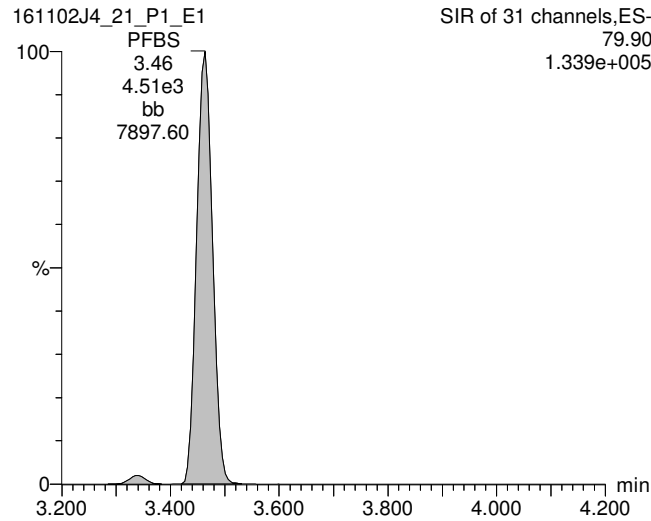
Printed: Friday, November 04, 2016 16:25:37 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 08:40:28

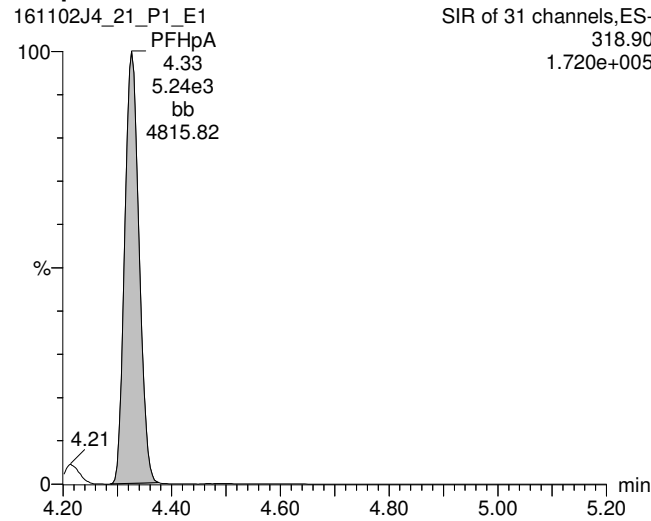
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43, Instrument: , Lab: ©PE-SCIEX, User: sciex

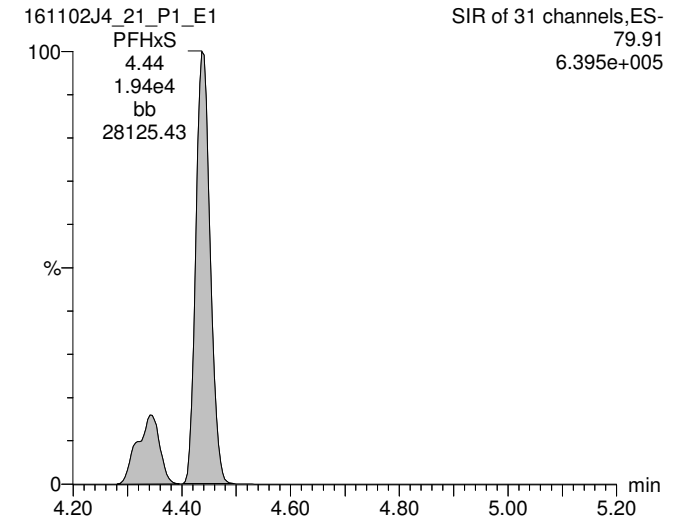
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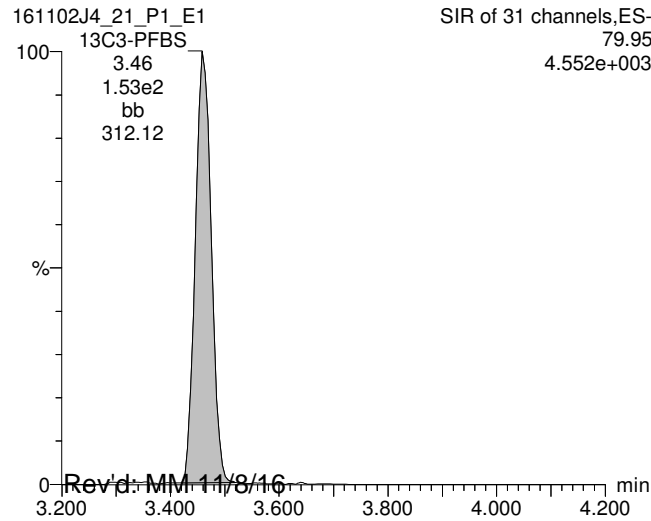
PFHpA



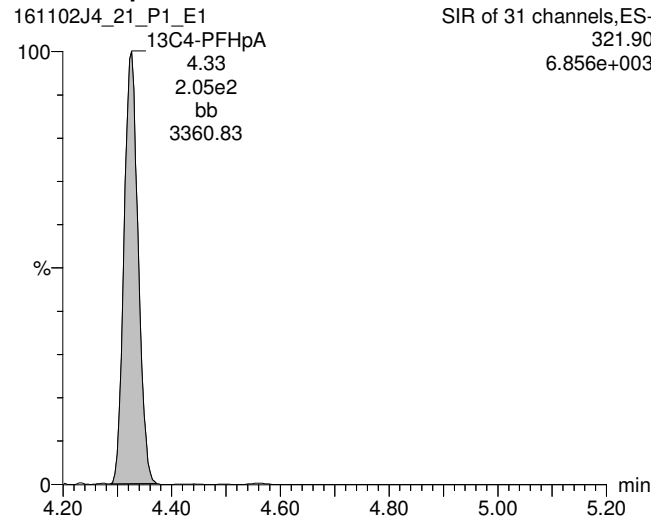
Total PFHxS



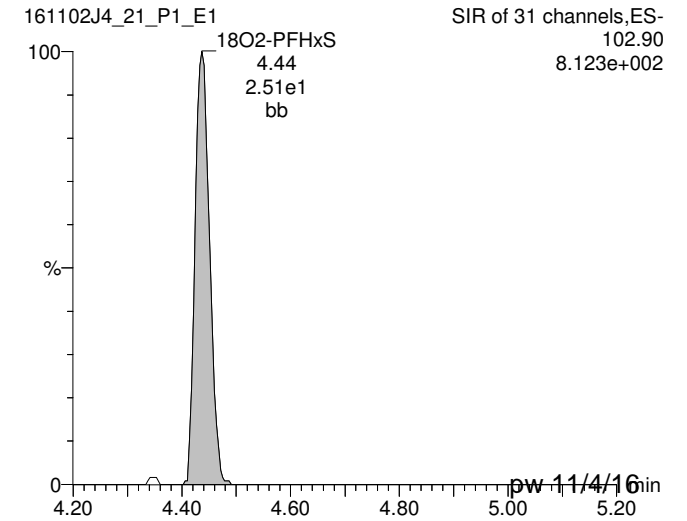
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



Rev'd: MM 11/8/16

pw 11/4/16

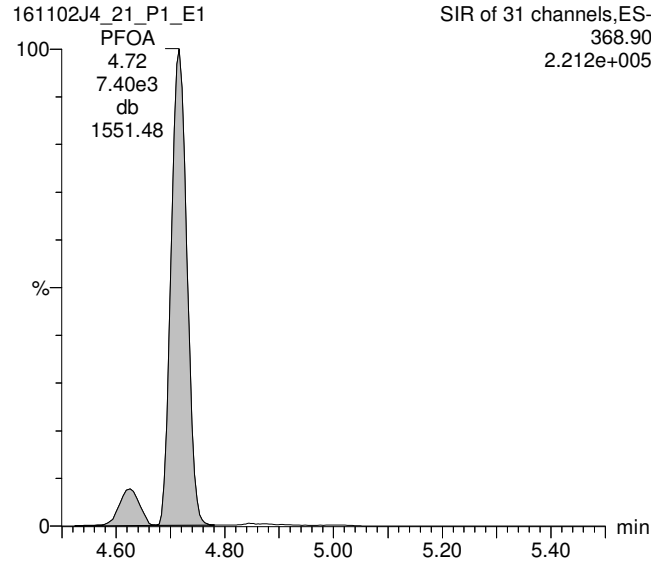
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Last Altered: Friday, November 04, 2016 16:25:08 Pacific Daylight Time

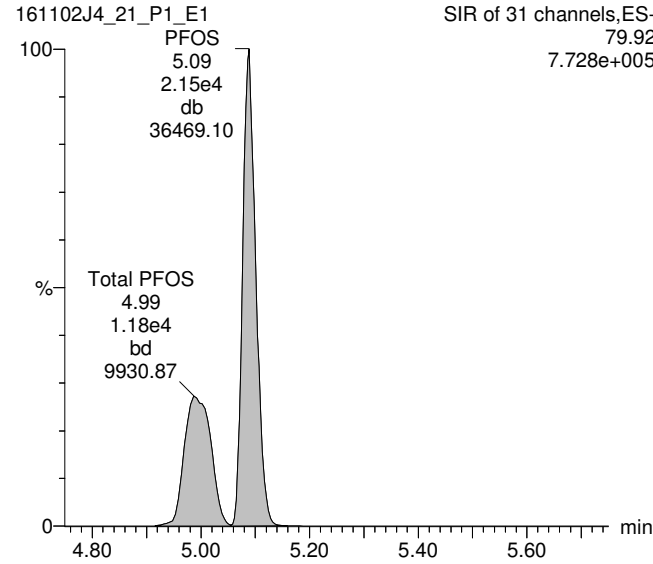
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ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43, Instrument: , Lab: ©PE-SCIEX, User: sciex

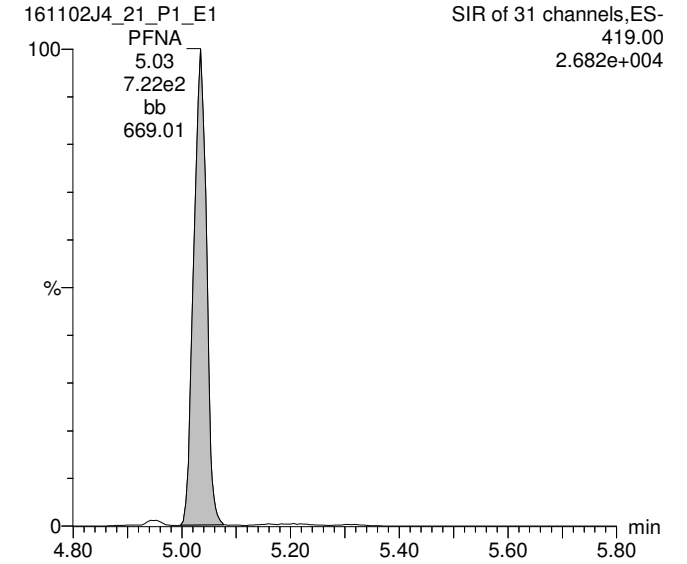
Total PFOA



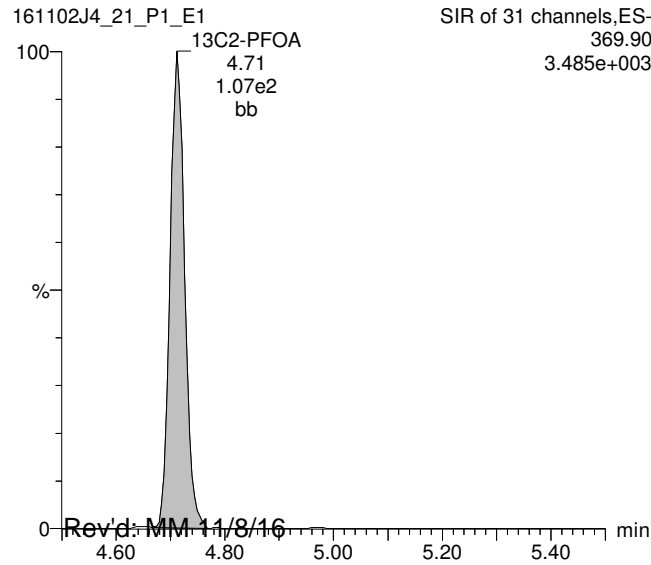
Total PFOS



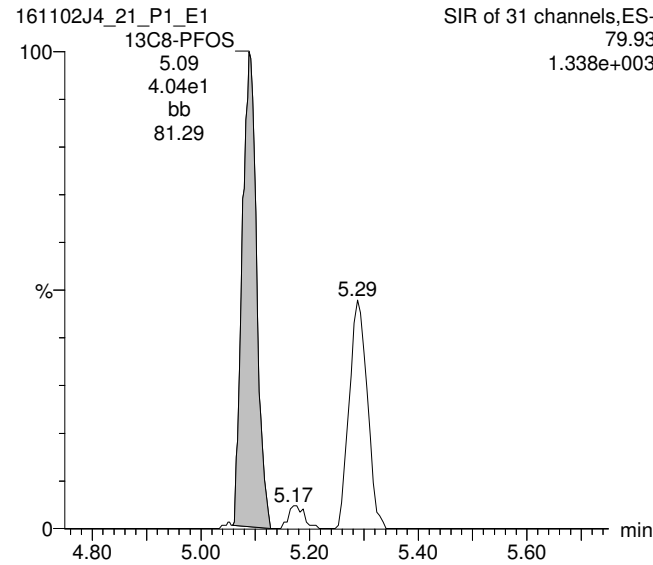
PFNA



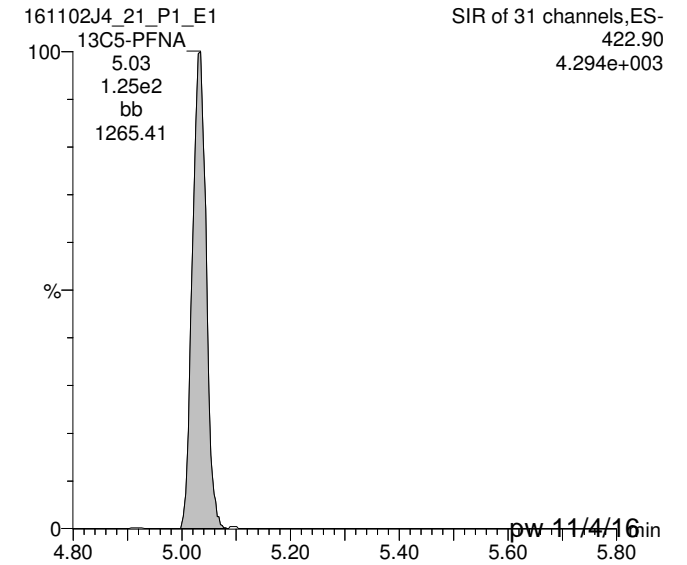
13C2-PFOA



13C8-PFOS



13C5-PFNA



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pw-11/4/16

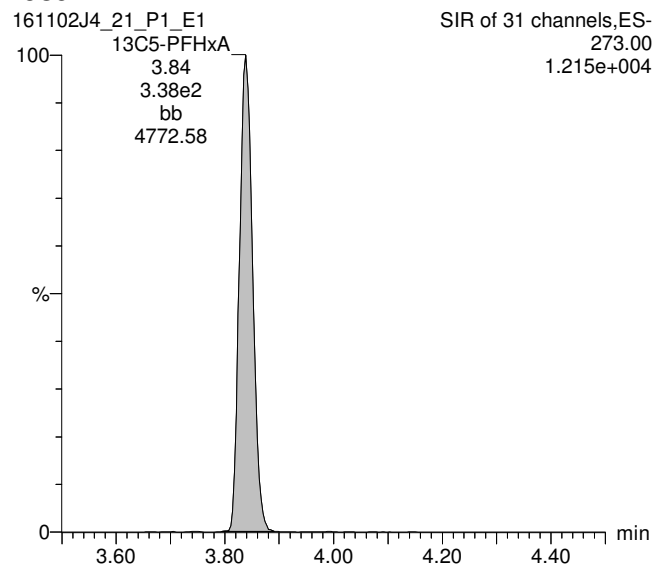
Dataset: U:\Q2.PRO\Results\161102J4\161102J4_21_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:25:08 Pacific Daylight Time

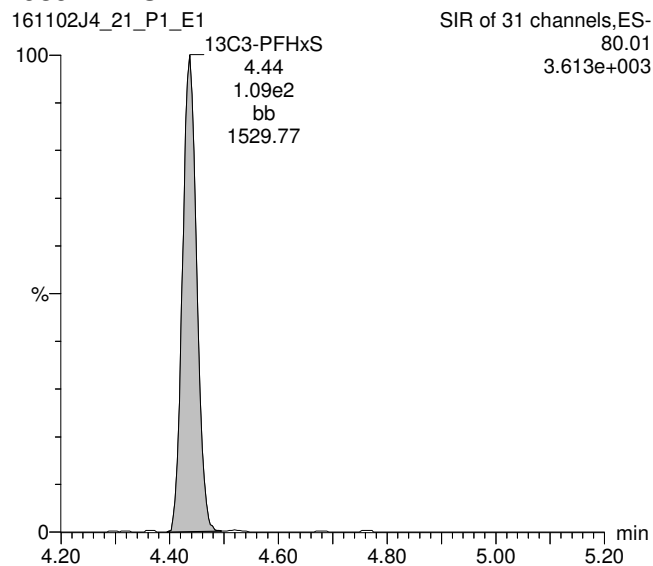
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ID: B6K0001-MS1@40x, Description: Matrix Spike, Name: 161102J4_21.wiff, Date: 03-Nov-2016, Time: 00:02:43, Instrument: , Lab: ©PE-SCIEX, User: sciex

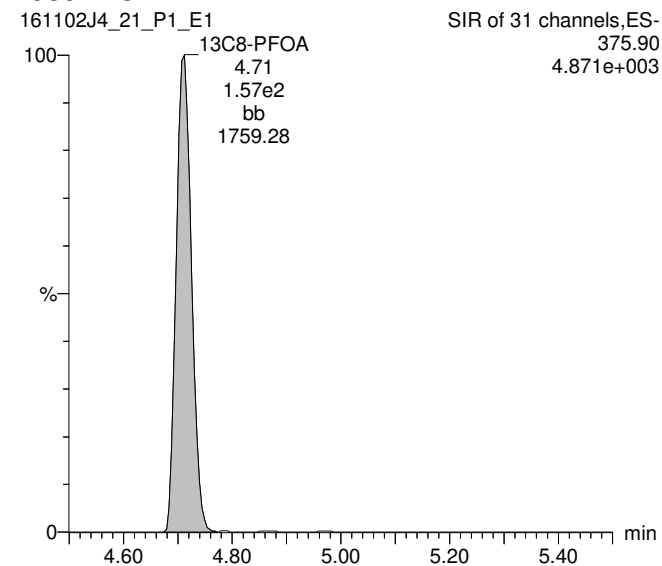
13C5-PFHxA



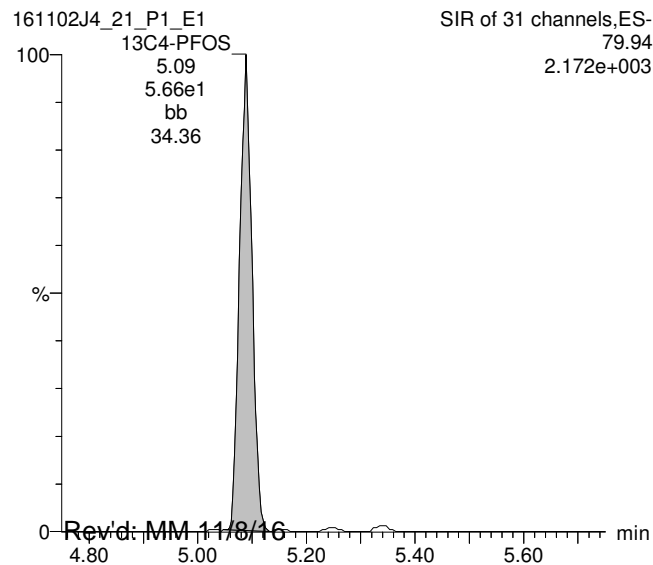
13C3-PFHxS



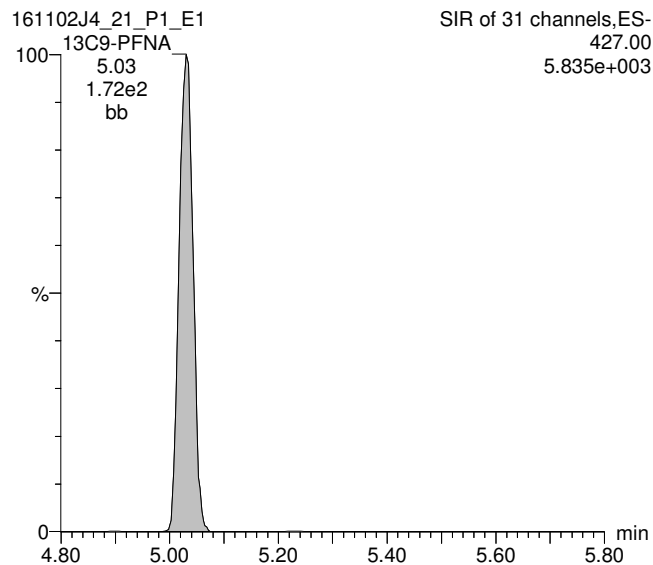
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_27_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:30:28 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:30:57 Pacific Daylight Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	4.743e3	1.688e2		0.126	3.46	3520	
2	6 PFHxS	79.91	2.039e4	2.829e1		0.126	4.44	22800	
3	8 PFOA	368.90	7.972e3	1.166e2		0.126	4.72		
4	9 PFNA	419.00	4.588e2	8.212e1		0.126	5.05	658	
5	10 PFOS	79.92	1.801e4	3.139e1		0.126	5.11	46900	E
6	15 13C3-PFBS	79.95	1.688e2	3.624e2	0.549	0.126	3.46	84.4	84.8
7	16 13C2-PFHxA	269.90	1.204e2	3.624e2	0.897	0.126	3.84	36.9	92.6
8	17 13C4-PFHpA	321.90	2.258e2	3.624e2	0.794	0.126	4.32	78.1	78.5
9	18 18O2-PFHxS	102.90	2.829e1	1.042e2	0.284	0.126	4.43	95.3	95.7
10	19 13C2-6:2 FTS	408.90	2.795e2	1.865e2	0.280	0.126	4.67	534	536
11	20 13C2-PFOA	369.90	1.166e2	1.865e2	0.809	0.126	4.72	76.9	77.3
12	21 13C5-PFNA	422.90	8.212e1	1.162e2	1.020	0.126	5.05	68.9	69.3
13	22 13C8-PFOS	79.93	3.139e1	4.322e1	0.947	0.126	5.11	76.3	76.7
14	25 13C4-PFBA	171.90	3.607e2	3.607e2	1.000	0.126	2.03	99.5	100
15	26 13C5-PFHxA	273.00	3.624e2	3.624e2	1.000	0.126	3.84	99.5	100
16	27 13C3-PFHxS	80.01	1.042e2	1.042e2	1.000	0.126	4.44	99.5	100
17	28 13C8-PFOA	375.90	1.865e2	1.865e2	1.000	0.126	4.71	99.5	100
18	29 13C4-PFOS	79.94	4.322e1	4.322e1	1.000	0.126	5.10	99.5	100
19	30 13C9-PFNA	427.00	1.162e2	1.162e2	1.000	0.126	5.04	99.5	100
20	31 13C6-PFDA	474.00	4.285e1	4.285e1	1.000	0.126	5.33	99.5	100
21	32 Total PFBS	79.90		1.688e2		0.126		3590	
22	33 Total PFHxS	79.91		2.829e1		0.126		28700	
23	34 Total PFOA	368.90		1.166e2		0.126		584	
24	35 Total PFOS	79.92		3.139e1		0.126		73200	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_27_ngLTarget.qld

Last Altered: Friday, November 04, 2016 16:30:28 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:30:57 Pacific Daylight Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4742.591	168.819	3523.9
2	32 Total PFBS	79.90	3.34	85.805	168.819	63.3

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	20392.939	28.286	22795.0
2	33 Total PFHxS	79.91	4.34	5276.672	28.286	5898.0

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	7971.718	116.605	
2	34 Total PFOA	368.90	4.62	727.384	116.605	583.6

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.11	18012.029	31.386	46861.0
2	35 Total PFOS	79.92	5.00	10121.935	31.386	26334.0

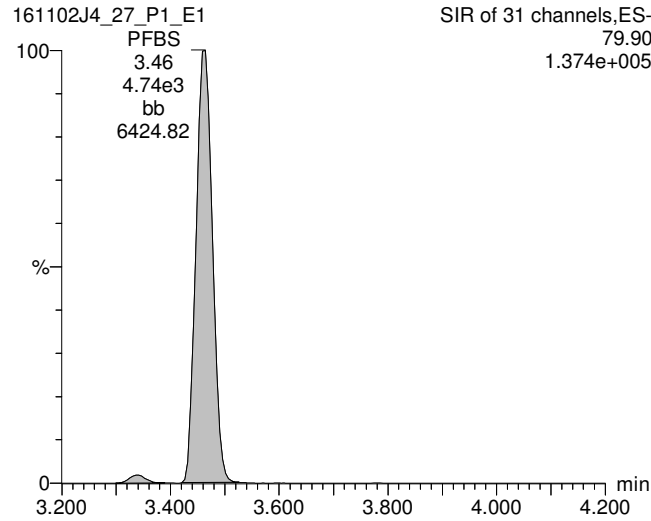
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Last Altered: Friday, November 04, 2016 16:30:28 Pacific Daylight Time
Printed: Friday, November 04, 2016 16:30:57 Pacific Daylight Time

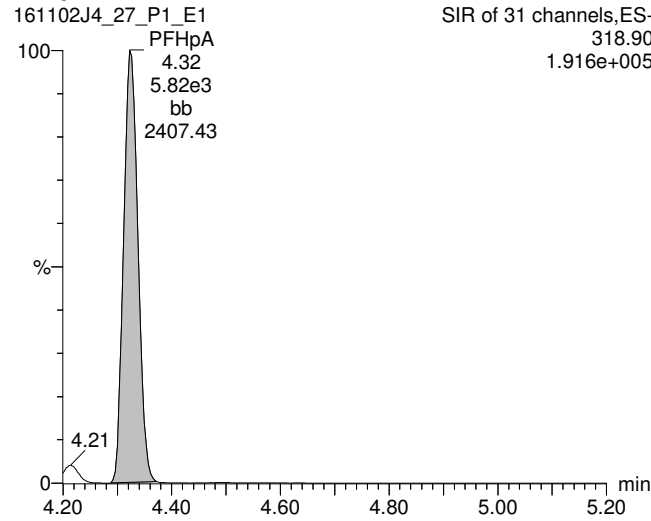
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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08, Instrument: , Lab: ©PE-SCIEX, User: sciex

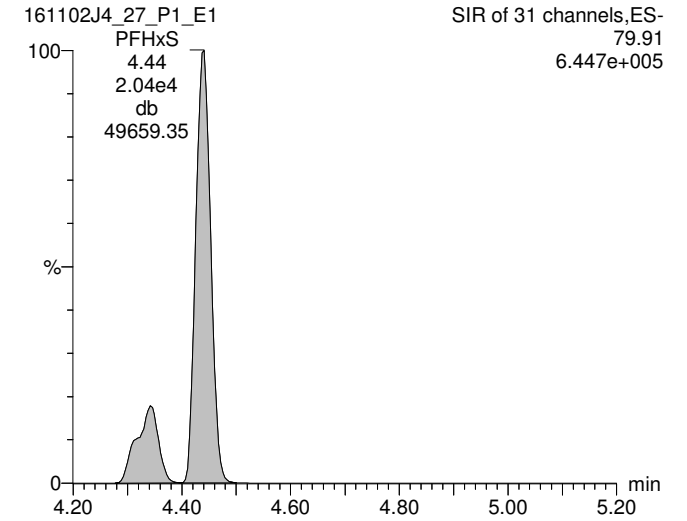
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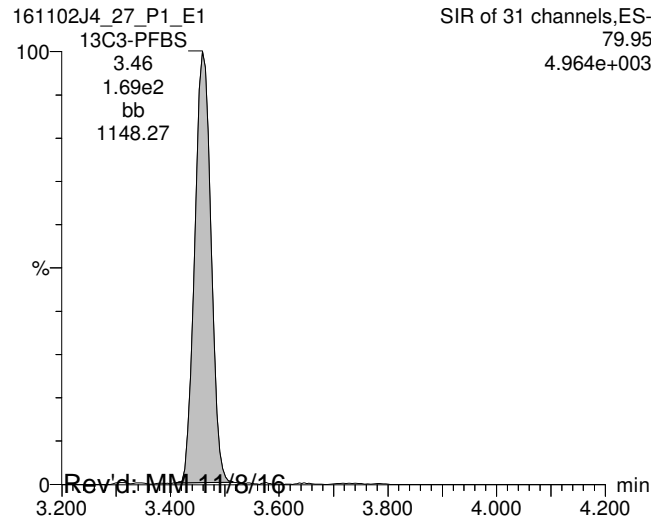
PFHpA



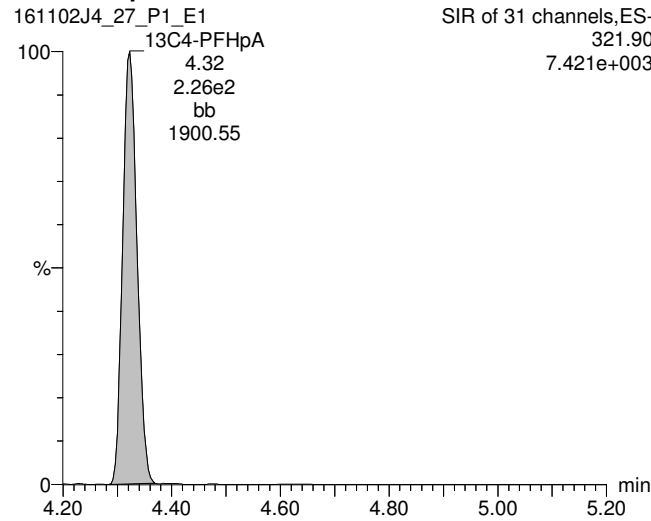
Total PFHxS



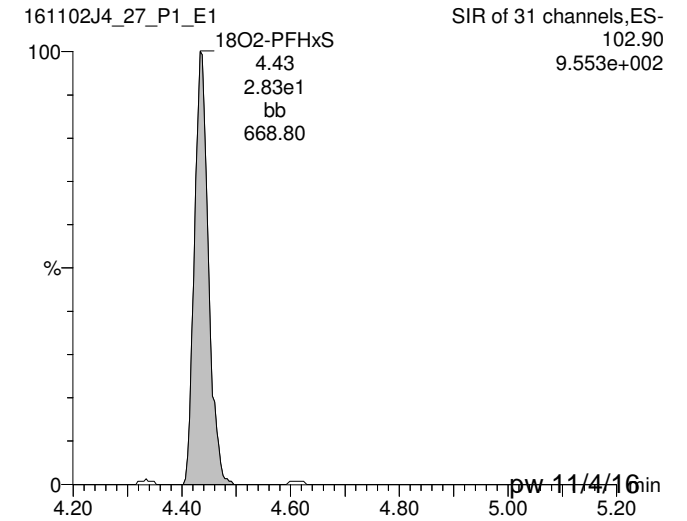
13C3-PFBS



13C4-PFHpA

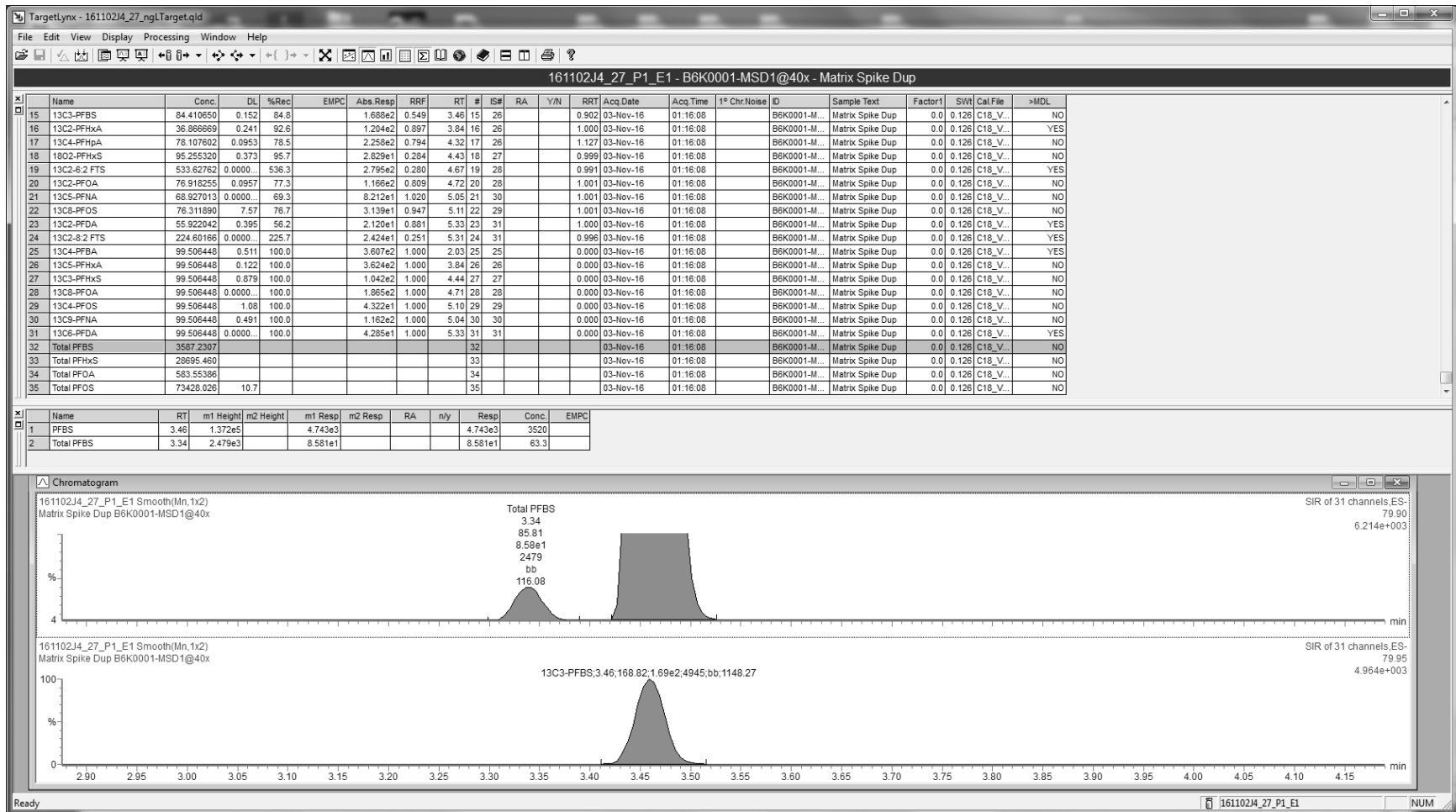


18O2-PFHxS



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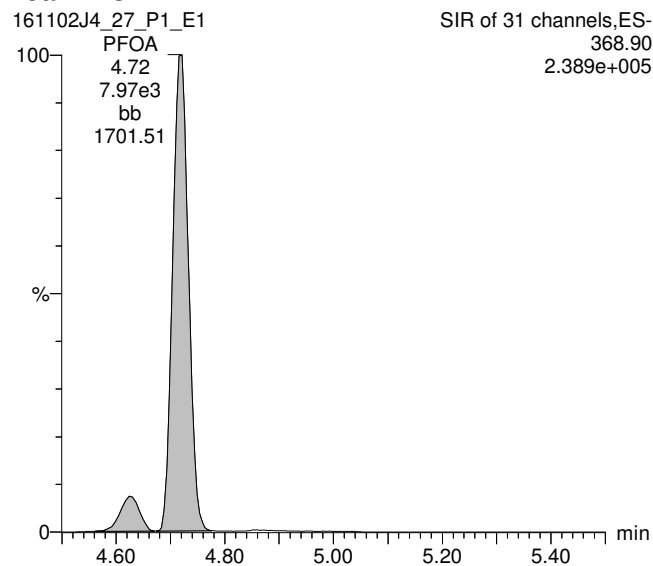
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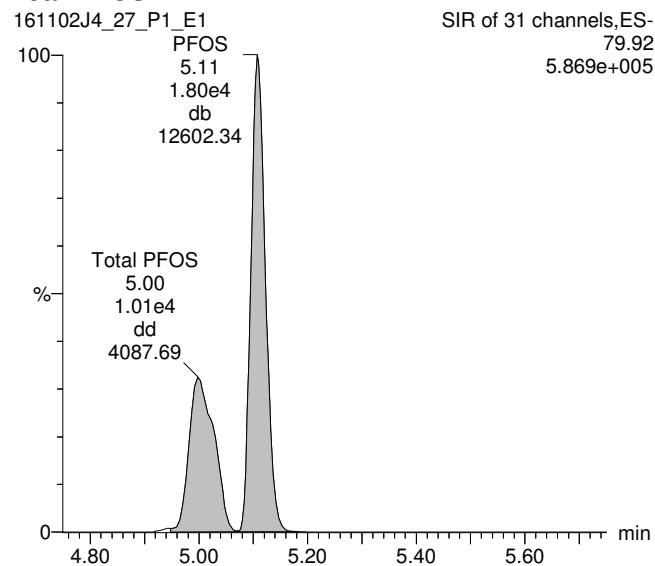
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ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08, Instrument: , Lab: ©PE-SCIEX, User: sciex

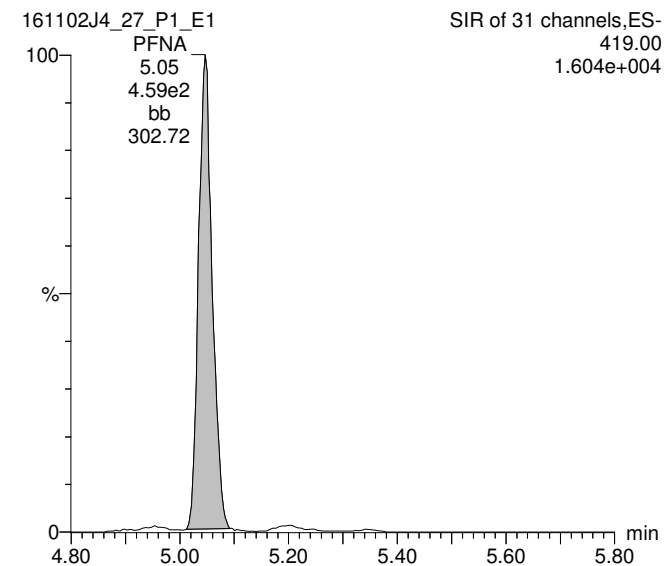
Total PFOA



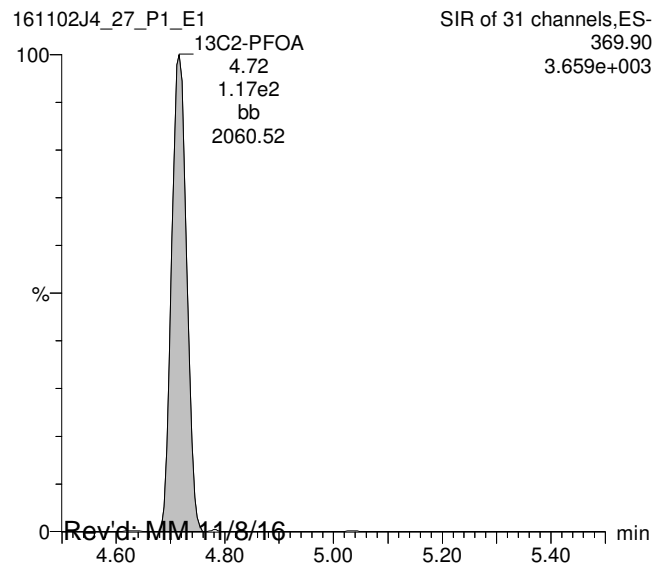
Total PFOS



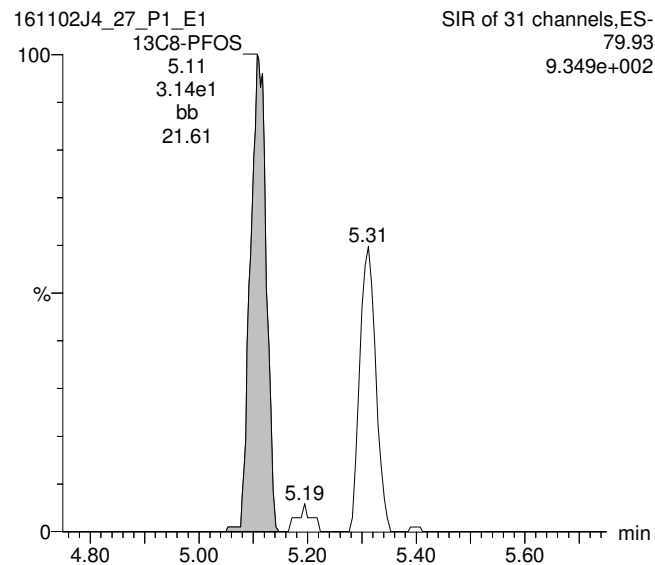
PFNA



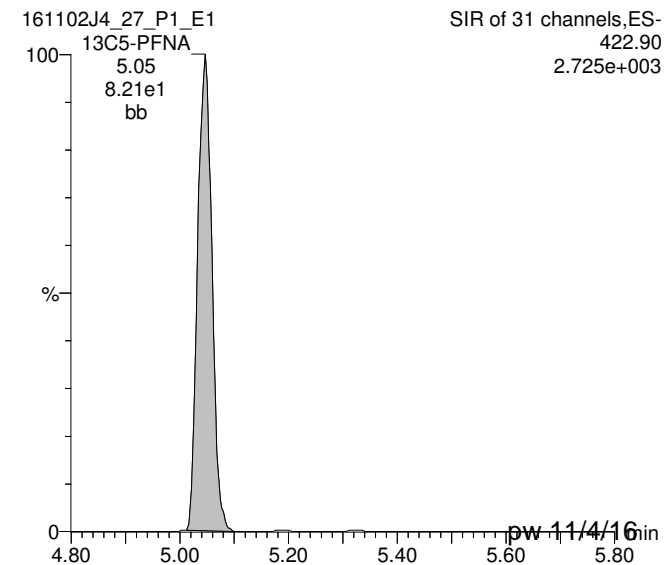
13C2-PFOA



13C8-PFOS



13C5-PFNA



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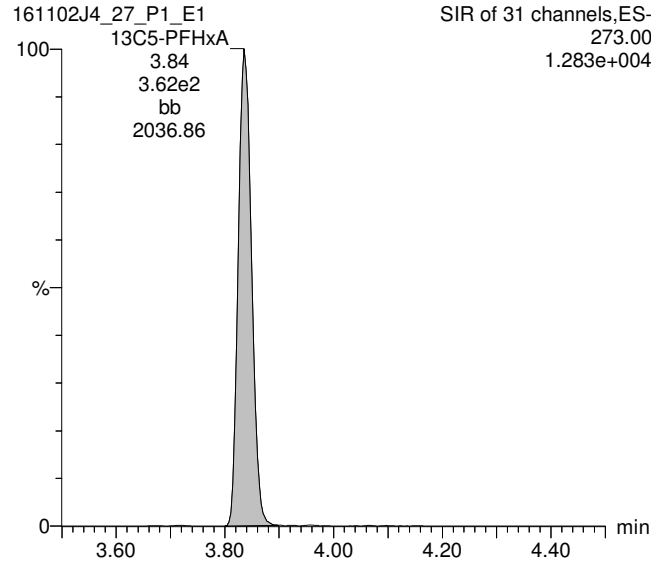
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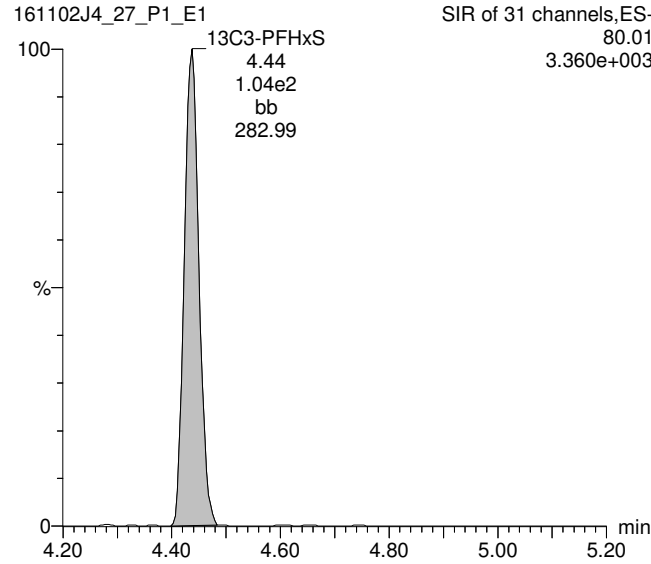
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ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08, Instrument: , Lab: ©PE-SCIEX, User: sciex

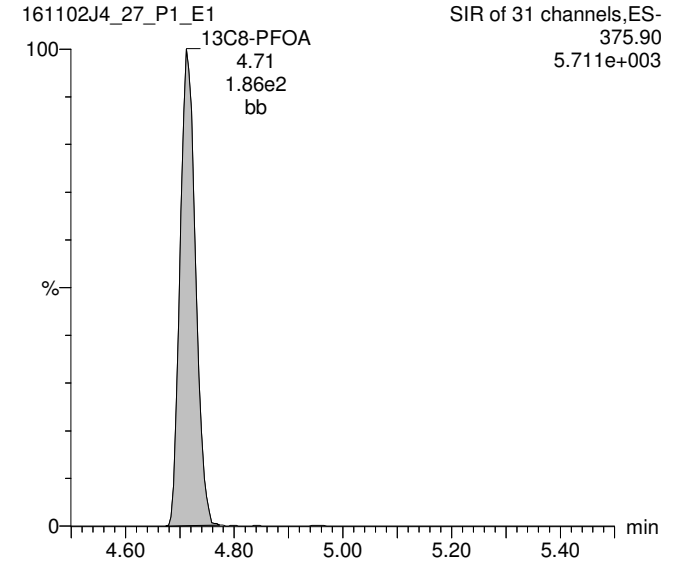
13C5-PFHxA



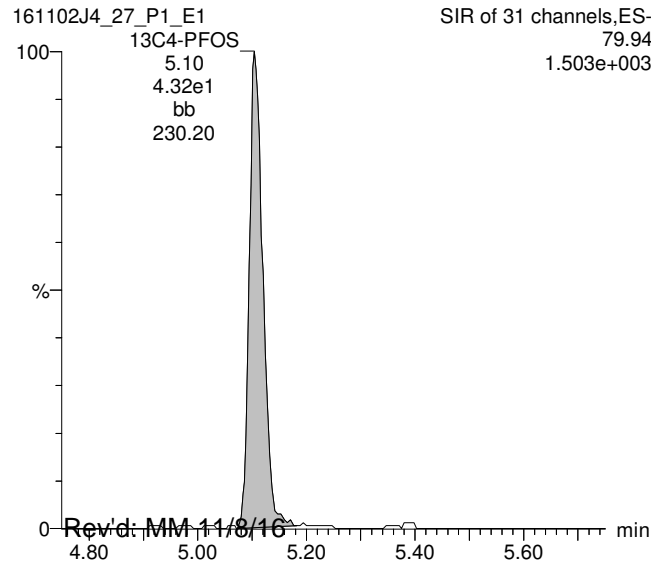
13C3-PFHxS



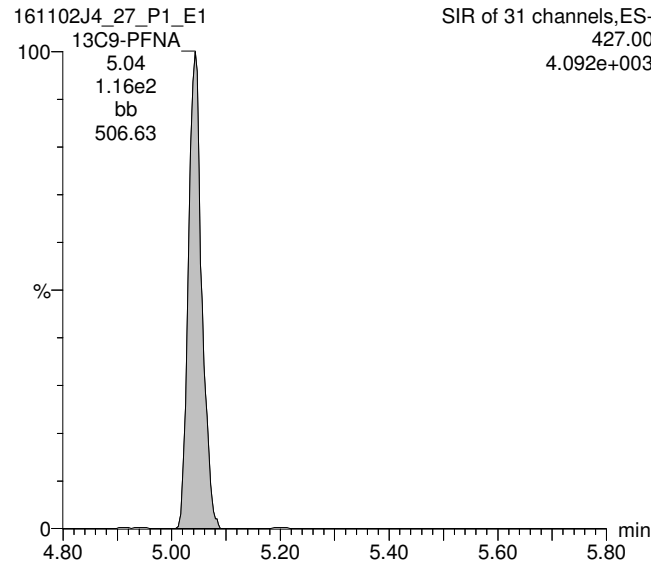
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_27_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:33:24 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:34:28 Pacific Daylight Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	5.822e3	2.258e2		0.126	4.32	2.74	
2	8 PFOA	368.90	7.972e3	1.166e2		0.126	4.72	4.55	
3	15 13C3-PFBS	79.95	1.688e2	3.624e2	0.549	0.126	3.46	0.0844	84.8
4	16 13C2-PFHxA	269.90	1.204e2	3.624e2	0.897	0.126	3.84	0.0369	92.6
5	17 13C4-PFHpA	321.90	2.258e2	3.624e2	0.794	0.126	4.32	0.0781	78.5
6	18 18O2-PFHxS	102.90	2.829e1	1.042e2	0.284	0.126	4.43	0.0953	95.7
7	19 13C2-6:2 FTS	408.90	2.795e2	1.865e2	0.280	0.126	4.67	0.534	536
8	20 13C2-PFOA	369.90	1.166e2	1.865e2	0.809	0.126	4.72	0.0769	77.3
9	21 13C5-PFNA	422.90	8.212e1	1.162e2	1.020	0.126	5.05	0.0689	69.3
10	22 13C8-PFOS	79.93	3.139e1	4.322e1	0.947	0.126	5.11	0.0763	76.7
11	25 13C4-PFBA	171.90	3.607e2	3.607e2	1.000	0.126	2.03	0.0995	100
12	26 13C5-PFHxA	273.00	3.624e2	3.624e2	1.000	0.126	3.84	0.0995	100
13	27 13C3-PFHxS	80.01	1.042e2	1.042e2	1.000	0.126	4.44	0.0995	100
14	28 13C8-PFOA	375.90	1.865e2	1.865e2	1.000	0.126	4.71	0.0995	100
15	29 13C4-PFOS	79.94	4.322e1	4.322e1	1.000	0.126	5.10	0.0995	100
16	30 13C9-PFNA	427.00	1.162e2	1.162e2	1.000	0.126	5.04	0.0995	100
17	31 13C6-PFDA	474.00	4.285e1	4.285e1	1.000	0.126	5.33	0.0995	100
18	32 Total PFBS	79.90		1.688e2		0.126		3.07	
19	33 Total PFHxS	79.91		2.829e1		0.126		28.1	
20	34 Total PFOA	368.90		1.166e2		0.126		4.55	
21	35 Total PFOS	79.92		3.139e1		0.126		75.1	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_27_ugLTarget.qld

Last Altered: Friday, November 04, 2016 16:33:24 Pacific Daylight Time

Printed: Friday, November 04, 2016 16:34:28 Pacific Daylight Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4742.591	168.819	3.1
2	32 Total PFBS	79.90	3.34	85.805	168.819	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	33 Total PFHxS	79.91	4.55	2.422	28.286	
2	6 PFHxS	79.91	4.44	20392.939	28.286	22.5
3	33 Total PFHxS	79.91	4.34	5276.672	28.286	5.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	7971.718	116.605	4.6
2	34 Total PFOA	368.90	4.62	727.384	116.605	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	35 Total PFOS	79.92	4.94	89.350	31.386	0.8
2	10 PFOS	79.92	5.11	18012.029	31.386	47.4
3	35 Total PFOS	79.92	5.00	10121.935	31.386	26.9

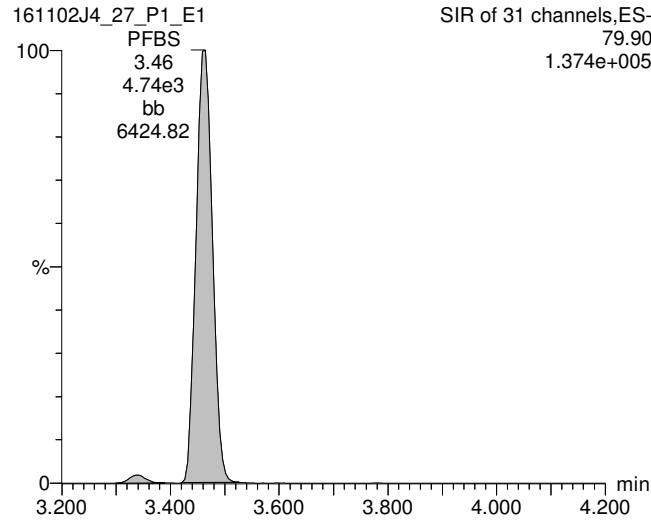
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Printed: Friday, November 04, 2016 16:34:28 Pacific Daylight Time

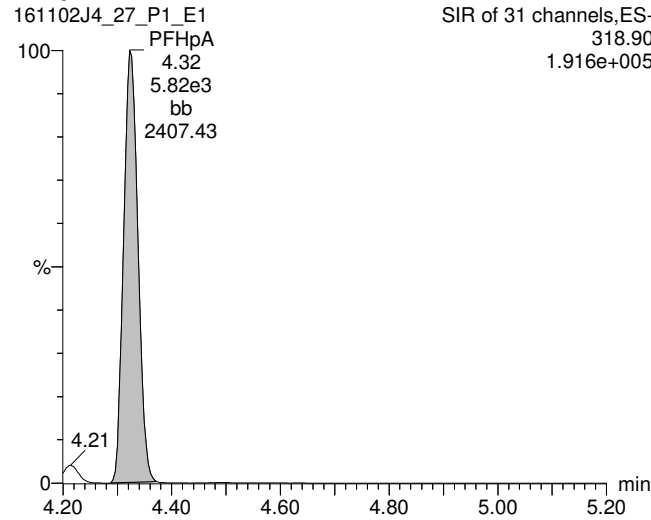
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ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08, Instrument: , Lab: ©PE-SCIEX, User: sciex

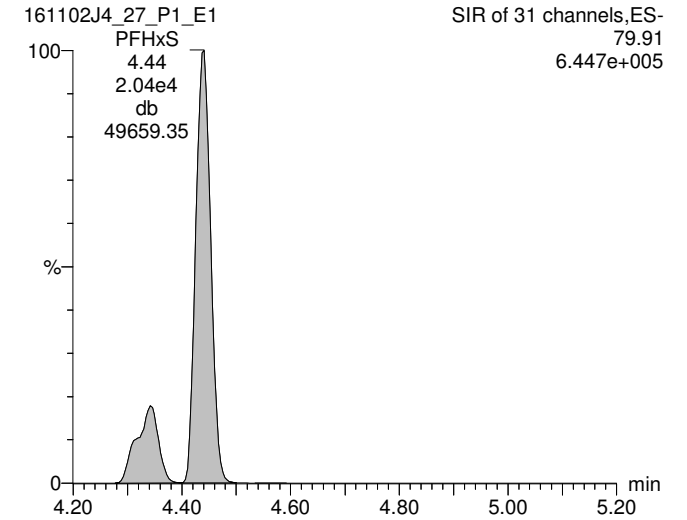
Total PFBS



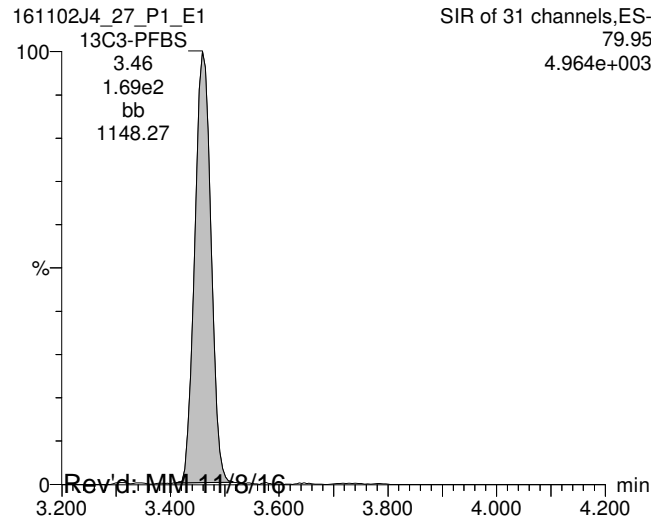
PFHpA



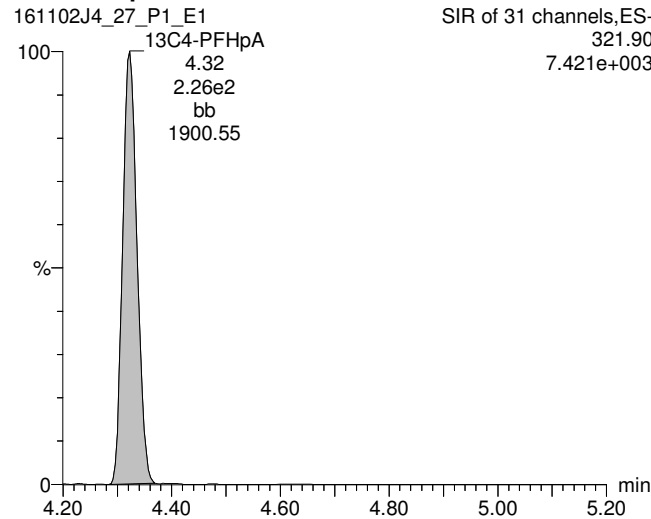
Total PFHxS



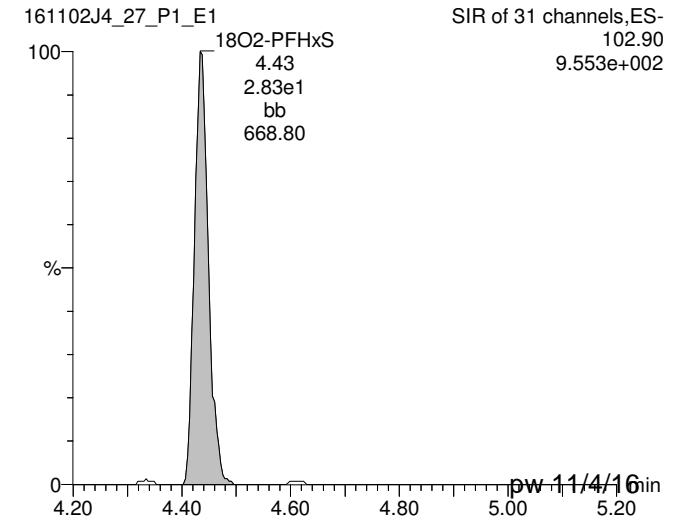
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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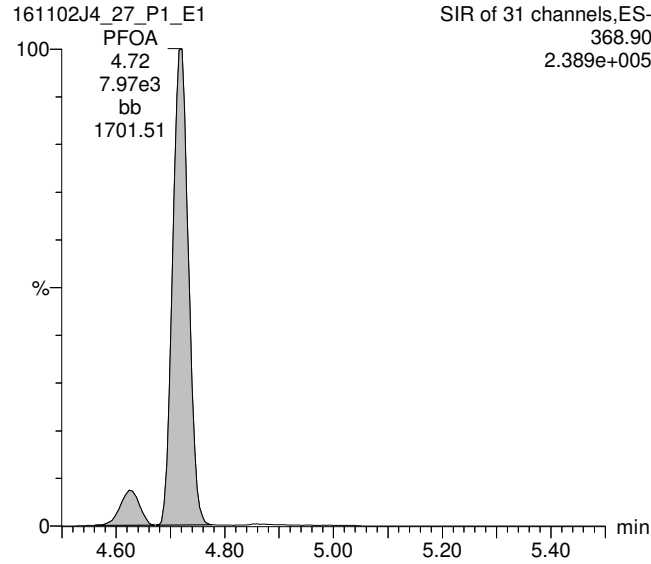
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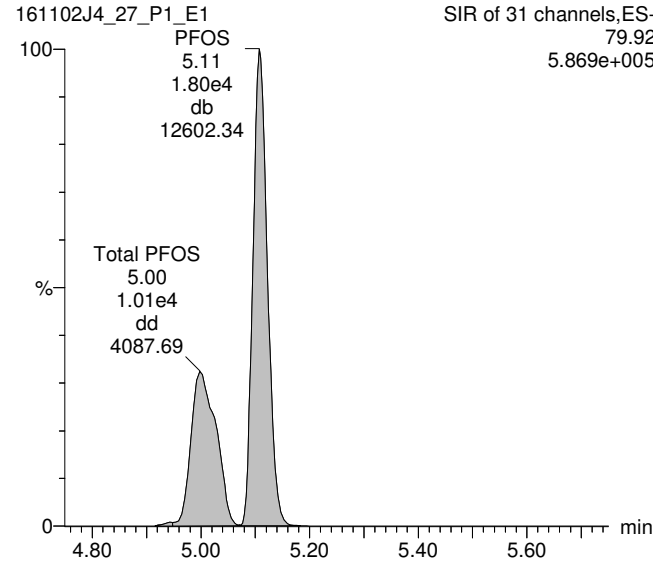
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ID: B6K0001-MSD1@40x, Description: Matrix Spike Dup, Name: 161102J4_27.wiff, Date: 03-Nov-2016, Time: 01:16:08, Instrument: , Lab: ©PE-SCIEX, User: sciex

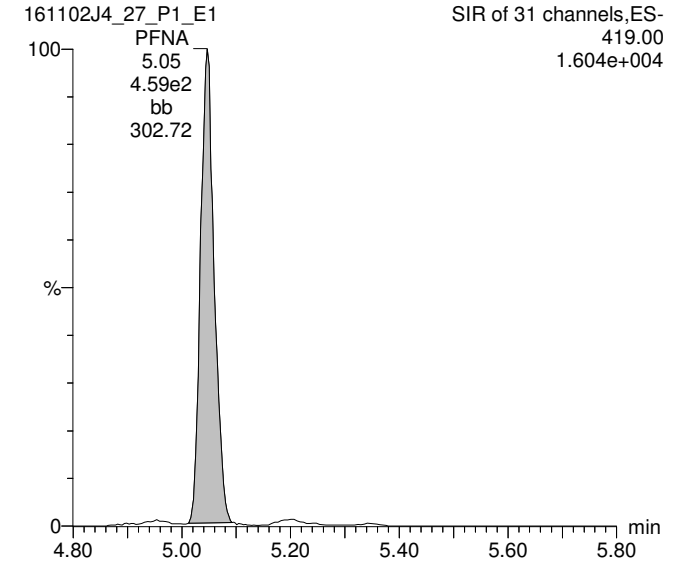
Total PFOA



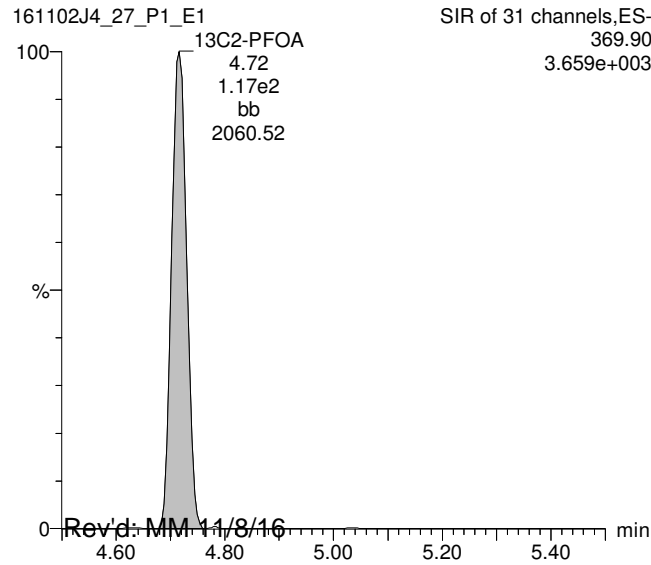
Total PFOS



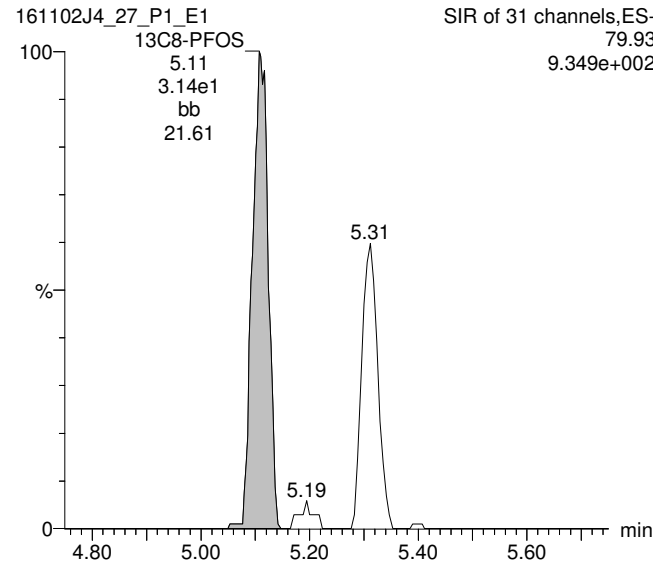
PFNA



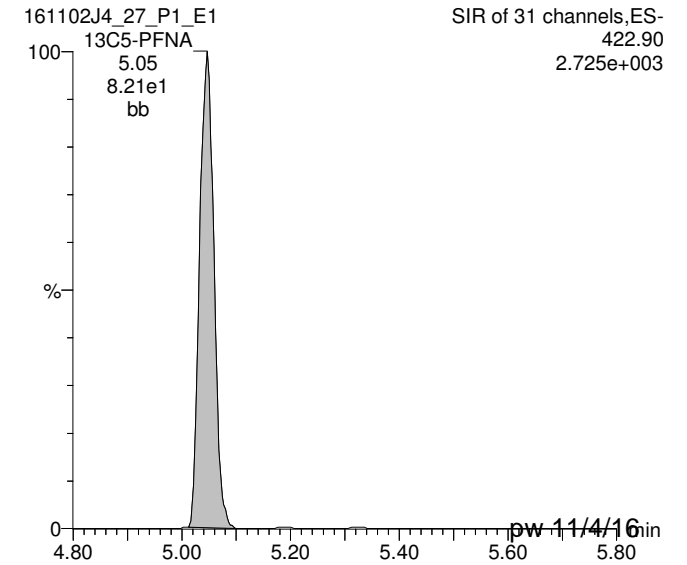
13C2-PFOA



13C8-PFOS



13C5-PFNA



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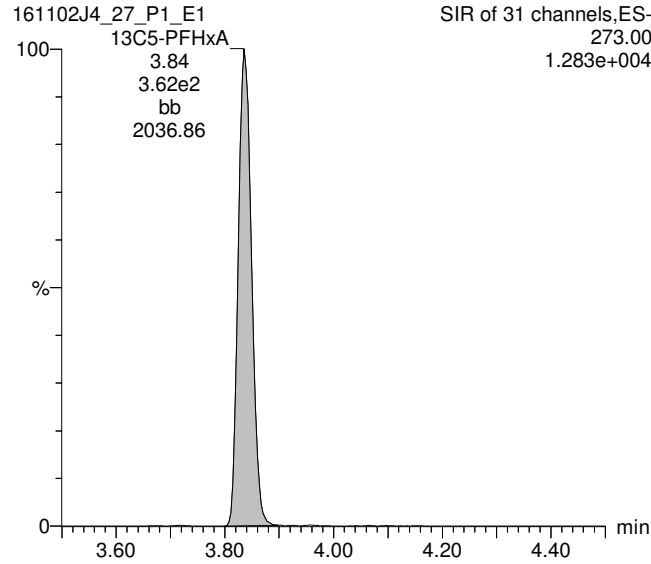
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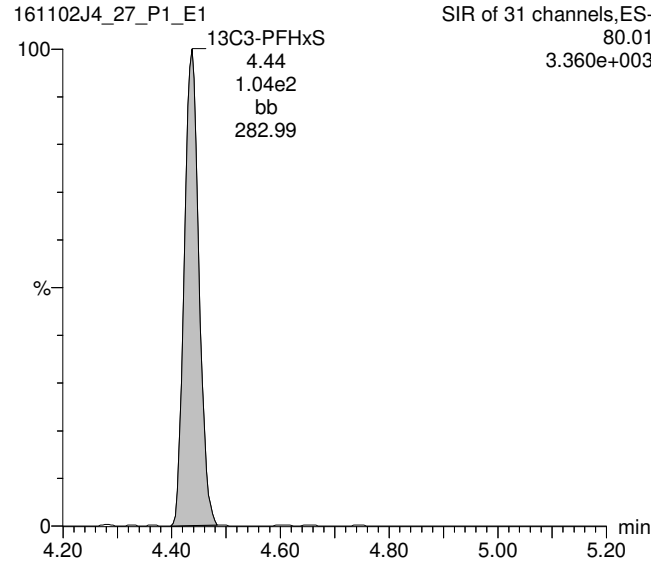
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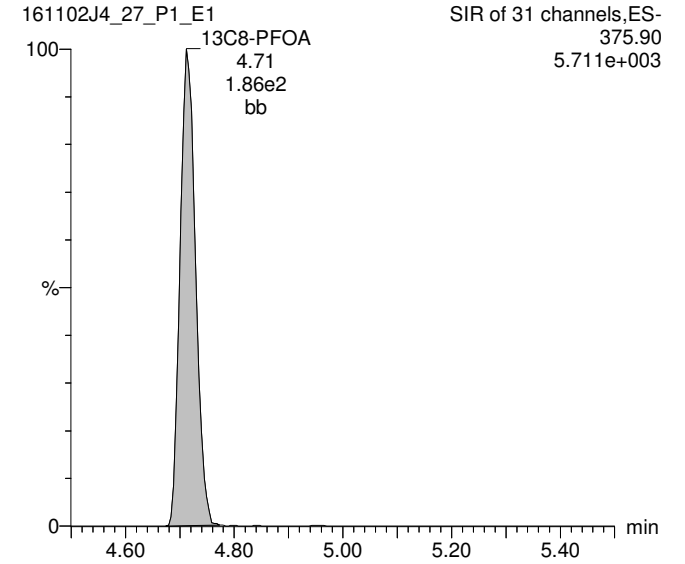
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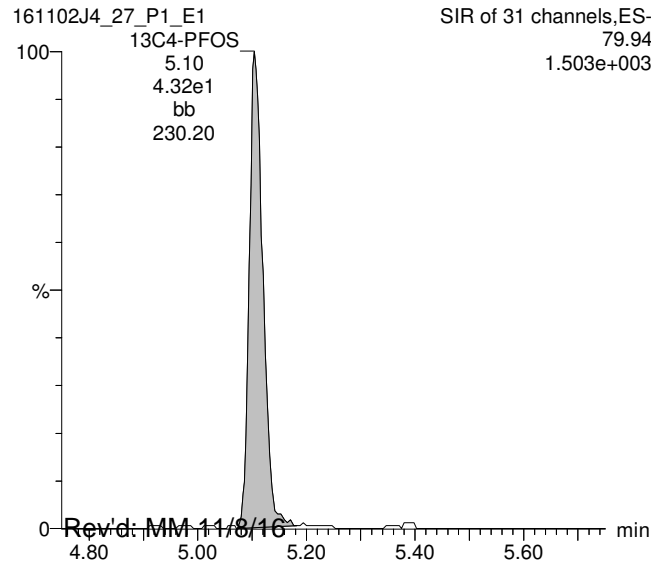
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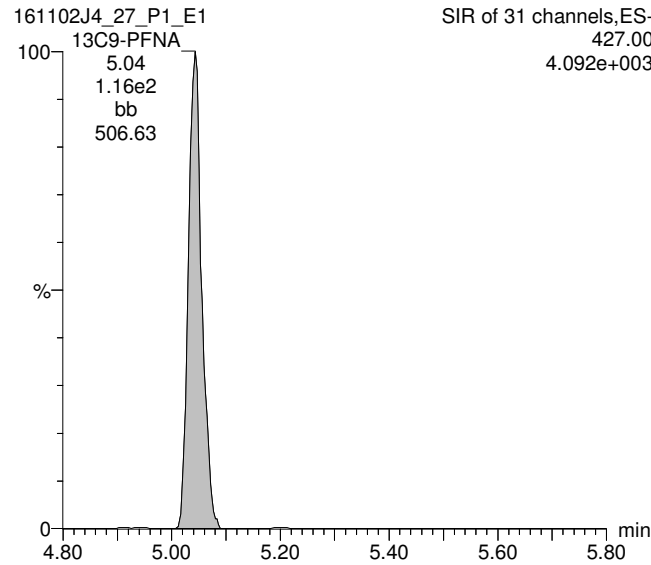
13C8-PFOA



13C4-PFOS



13C9-PFNA



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pw 11/4/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_35_ngLTarget.qld

Last Altered: Monday, November 07, 2016 09:50:19 Pacific Standard Time

Printed: Monday, November 07, 2016 09:52:51 Pacific Standard Time

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ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	4.528e3	1.639e2		0.124	3.46	3500	
2	6 PFHxS	79.91	2.970e4	2.965e1		0.124	4.44	32000	
3	9 PFNA	419.00	8.486e2	9.340e1		0.124	5.04	1080	
4	10 PFOS	79.92	2.364e4	2.482e1		0.124	5.10	78600	E
5	15 13C3-PFBS	79.95	1.639e2	3.285e2	0.549	0.124	3.46	91.4	90.9
6	16 13C2-PFHxA	269.90	1.145e2	3.285e2	0.897	0.124	3.84	39.1	97.2
7	17 13C4-PFHpA	321.90	2.046e2	3.285e2	0.794	0.124	4.33	78.9	78.4
8	18 18O2-PFHxS	102.90	2.965e1	1.161e2	0.284	0.124	4.44	90.6	90.0
9	19 13C2-6:2 FTS	408.90	4.187e2	1.889e2	0.280	0.124	4.67	798	793
10	20 13C2-PFOA	369.90	1.542e2	1.889e2	0.809	0.124	4.71	102	101
11	21 13C5-PFNA	422.90	9.340e1	1.414e2	1.020	0.124	5.03	65.1	64.7
12	22 13C8-PFOS	79.93	2.482e1	3.656e1	0.947	0.124	5.09	72.2	71.7
13	25 13C4-PFBA	171.90	3.414e2	3.414e2	1.000	0.124	2.03	101	100
14	26 13C5-PFHxA	273.00	3.285e2	3.285e2	1.000	0.124	3.84	101	100
15	27 13C3-PFHxS	80.01	1.161e2	1.161e2	1.000	0.124	4.44	101	100
16	28 13C8-PFOA	375.90	1.889e2	1.889e2	1.000	0.124	4.71	101	100
17	29 13C4-PFOS	79.94	3.656e1	3.656e1	1.000	0.124	5.09	101	100
18	30 13C9-PFNA	427.00	1.414e2	1.414e2	1.000	0.124	5.03	101	100
19	31 13C6-PFDA	474.00	3.917e1	3.917e1	1.000	0.124	5.31	101	100
20	32 Total PFBS	79.90		1.639e2		0.124		3580	
21	33 Total PFHxS	79.91		2.965e1		0.124		38900	
22	34 Total PFOA	368.90		1.542e2		0.124			
23	35 Total PFOS	79.92		2.482e1		0.124		133000	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_35_ngLTarget.qld

Last Altered: Monday, November 07, 2016 09:50:19 Pacific Standard Time

Printed: Monday, November 07, 2016 09:52:51 Pacific Standard Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4528.374	163.919	3504.9
2	32 Total PFBS	79.90	3.34	91.414	163.919	70.3

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	29703.311	29.645	32042.3
2	33 Total PFHxS	79.91	4.34	6353.099	29.645	6853.2

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	22157.229	154.177	
2	34 Total PFOA	368.90	4.62	2983.835	154.177	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.10	23635.795	24.822	78641.8
2	35 Total PFOS	79.92	5.00	16472.707	24.822	54808.7

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_35_ngLTarget.qld

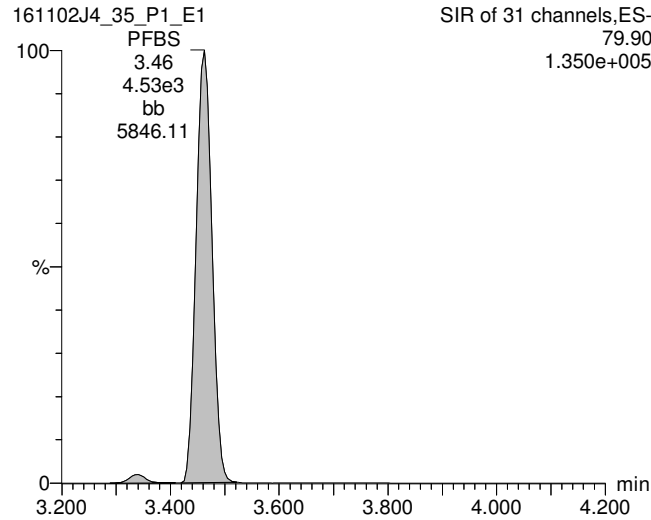
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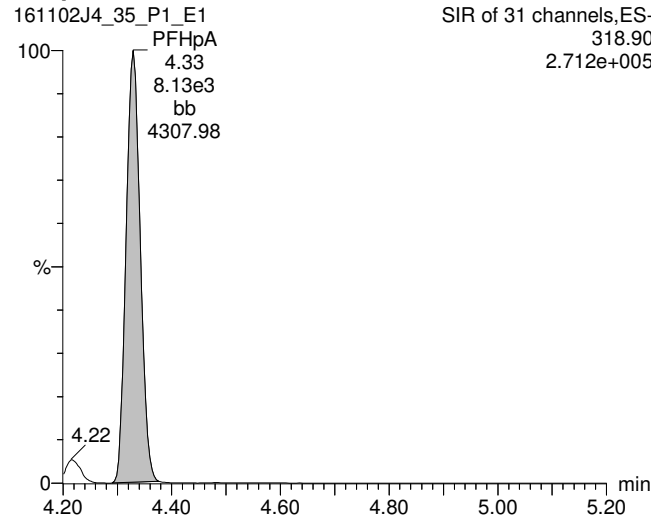
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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07, Instrument: , Lab: ©PE-SCIEX, User: sciex

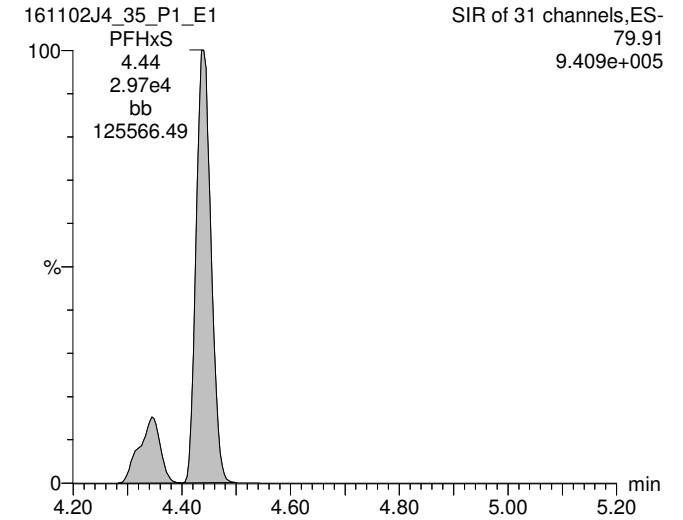
Total PFBS



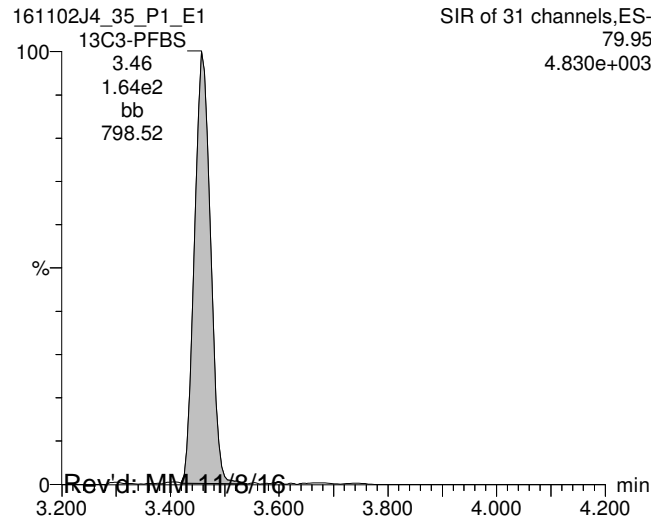
PFHpA



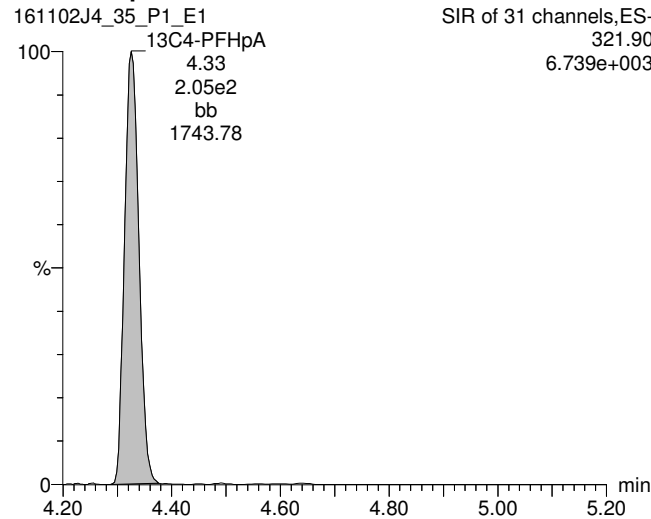
Total PFHxS



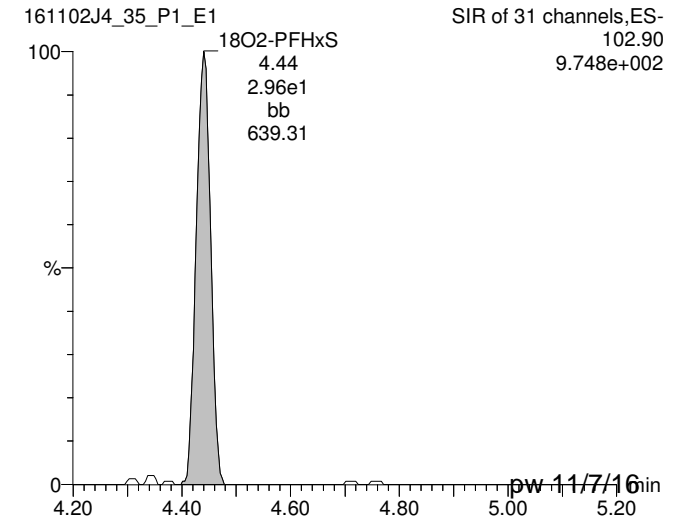
13C3-PFBS



13C4-PFHpA

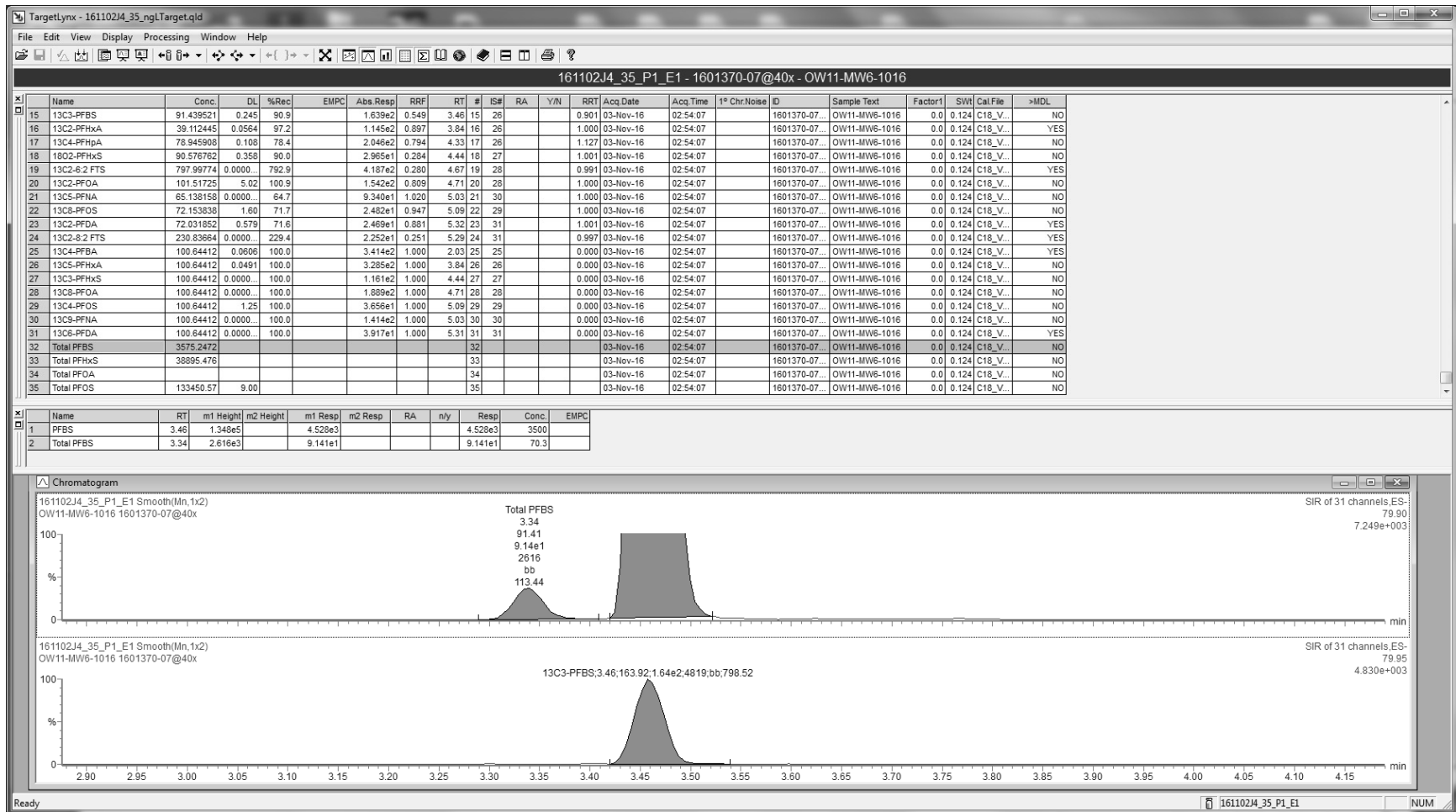


18O2-PFHxS



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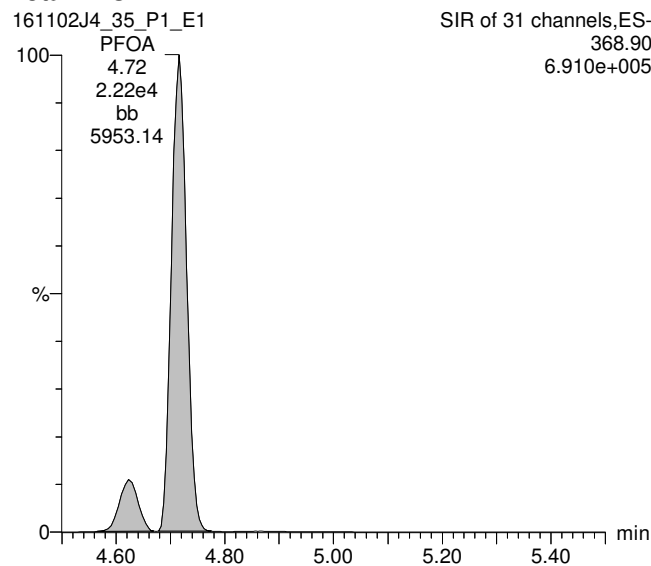
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Last Altered: Monday, November 07, 2016 09:50:19 Pacific Standard Time

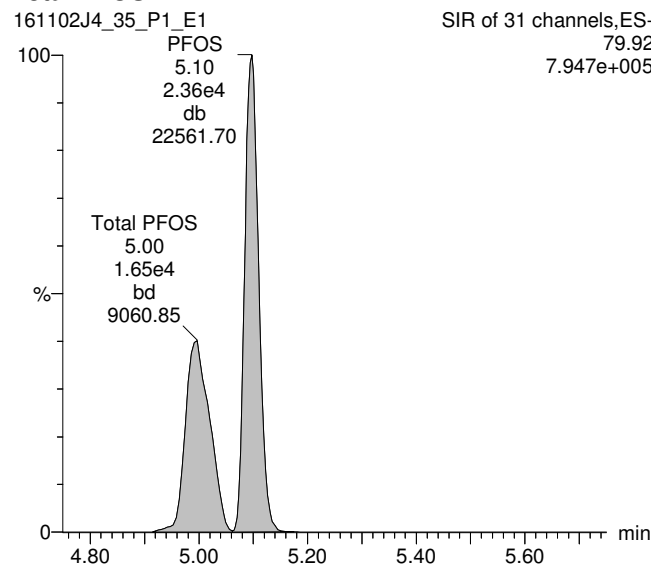
Printed: Monday, November 07, 2016 09:52:51 Pacific Standard Time

ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07, Instrument: , Lab: ©PE-SCIEX, User: sciex

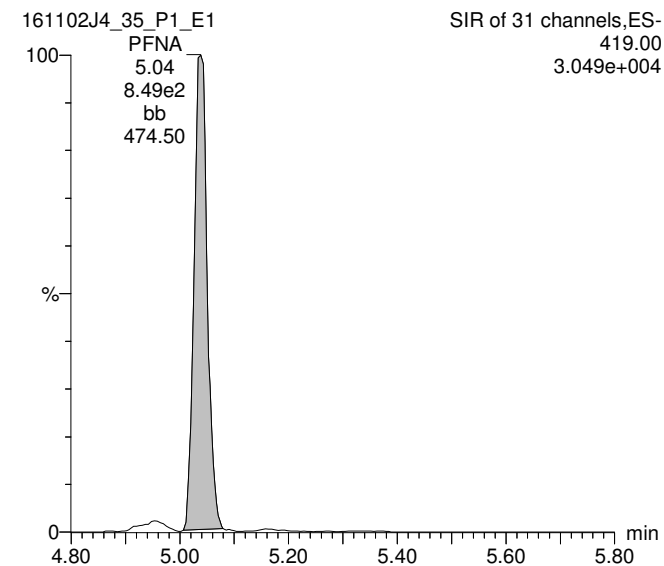
Total PFOA



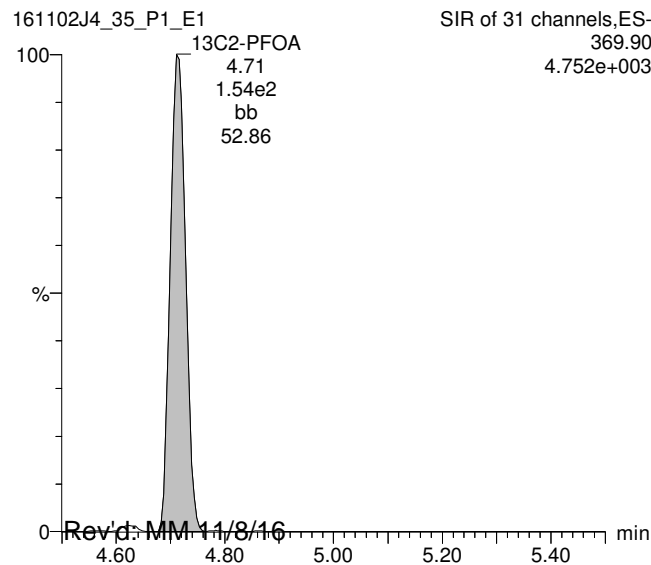
Total PFOS



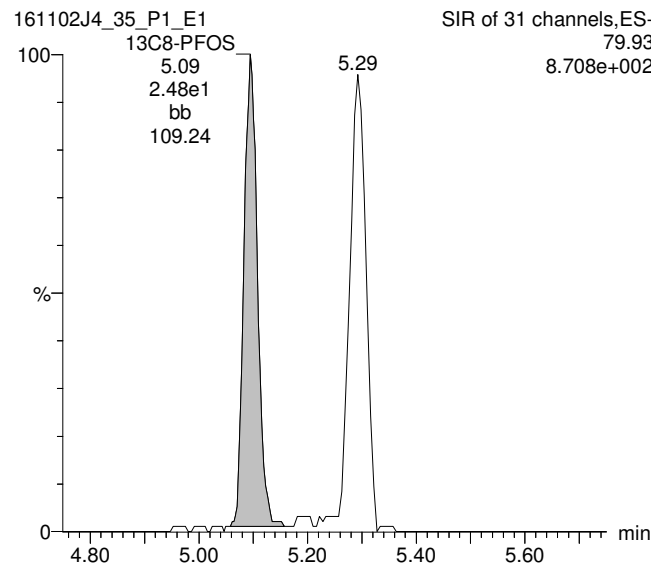
PFNA



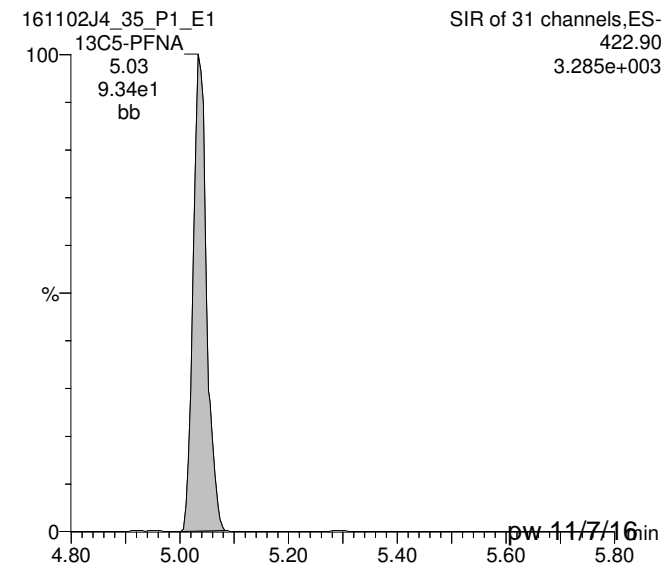
13C2-PFOA



13C8-PFOS



13C5-PFNA



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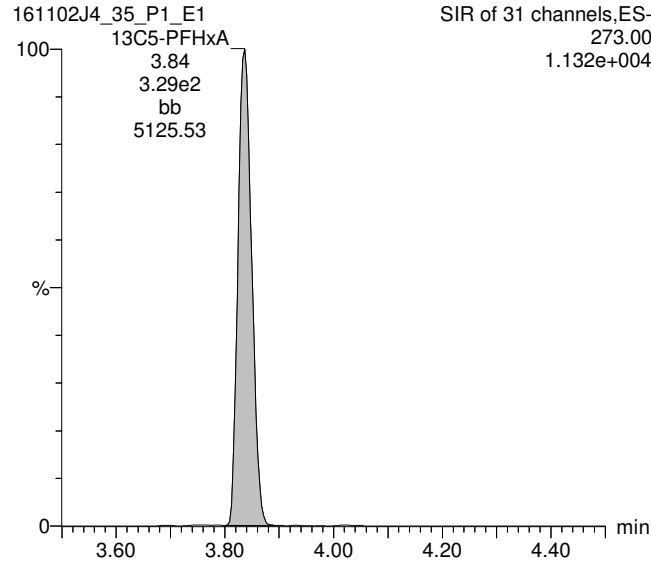
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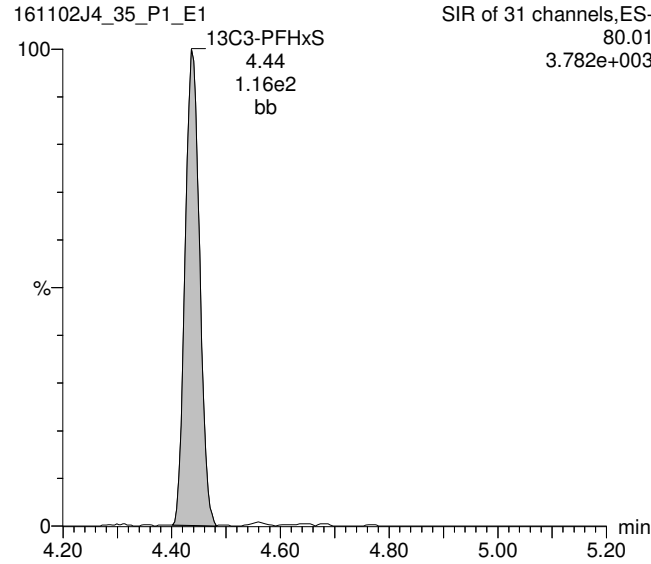
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ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07, Instrument: , Lab: ©PE-SCIEX, User: sciex

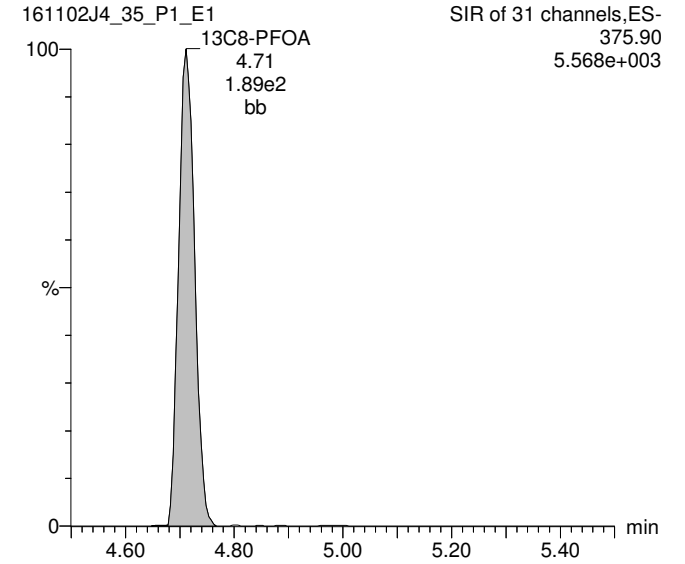
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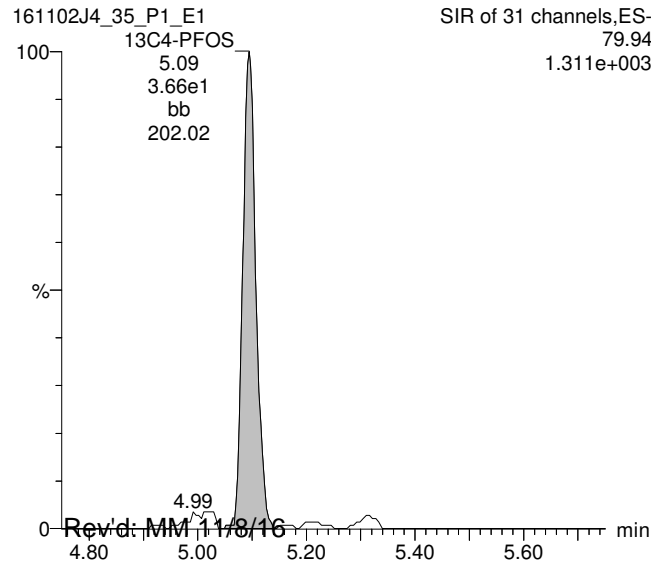
13C3-PFHxS



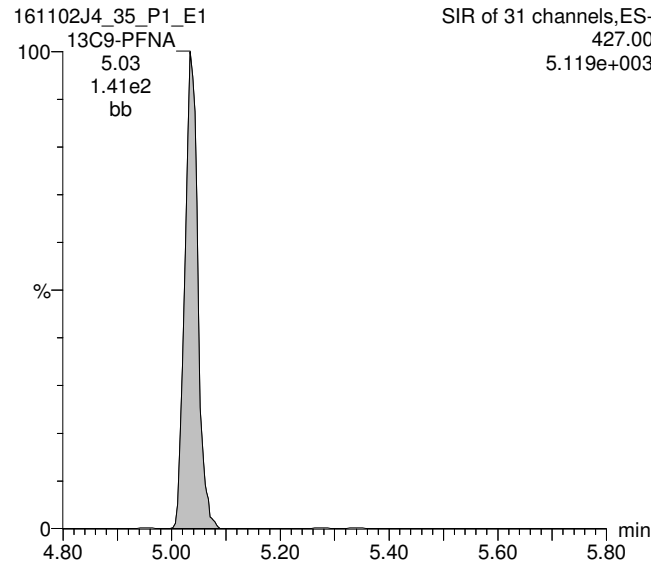
13C8-PFOA



13C4-PFOS



13C9-PFNA



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pw 11/7/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_35_ugLTarget.qld

Last Altered: Monday, November 07, 2016 09:58:42 Pacific Standard Time

Printed: Monday, November 07, 2016 10:00:11 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	8.125e3	2.046e2		0.124	4.33	4.36	
2	8 PFOA	368.90	2.216e4	1.542e2		0.124	4.72	10.7	
3	15 13C3-PFBS	79.95	1.639e2	3.285e2	0.549	0.124	3.46	0.0914	90.9
4	16 13C2-PFHxA	269.90	1.145e2	3.285e2	0.897	0.124	3.84	0.0391	97.2
5	17 13C4-PFHpA	321.90	2.046e2	3.285e2	0.794	0.124	4.33	0.0789	78.4
6	18 18O2-PFHxS	102.90	2.965e1	1.161e2	0.284	0.124	4.44	0.0906	90.0
7	19 13C2-6:2 FTS	408.90	4.187e2	1.889e2	0.280	0.124	4.67	0.798	793
8	20 13C2-PFOA	369.90	1.542e2	1.889e2	0.809	0.124	4.71	0.102	101
9	21 13C5-PFNA	422.90	9.340e1	1.414e2	1.020	0.124	5.03	0.0651	64.7
10	22 13C8-PFOS	79.93	2.482e1	3.656e1	0.947	0.124	5.09	0.0722	71.7
11	25 13C4-PFBA	171.90	3.414e2	3.414e2	1.000	0.124	2.03	0.101	100
12	26 13C5-PFHxA	273.00	3.285e2	3.285e2	1.000	0.124	3.84	0.101	100
13	27 13C3-PFHxS	80.01	1.161e2	1.161e2	1.000	0.124	4.44	0.101	100
14	28 13C8-PFOA	375.90	1.889e2	1.889e2	1.000	0.124	4.71	0.101	100
15	29 13C4-PFOS	79.94	3.656e1	3.656e1	1.000	0.124	5.09	0.101	100
16	30 13C9-PFNA	427.00	1.414e2	1.414e2	1.000	0.124	5.03	0.101	100
17	31 13C6-PFDA	474.00	3.917e1	3.917e1	1.000	0.124	5.31	0.101	100
18	32 Total PFBS	79.90		1.639e2		0.124		3.05	
19	33 Total PFHxS	79.91		2.965e1		0.124		38.3	
20	34 Total PFOA	368.90		1.542e2		0.124		11.3	
21	35 Total PFOS	79.92		2.482e1		0.124		135	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_35_ugLTarget.qld

Last Altered: Monday, November 07, 2016 09:58:42 Pacific Standard Time

Printed: Monday, November 07, 2016 10:00:11 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.46	4528.374	163.919	3.0
2	32 Total PFBS	79.90	3.34	91.414	163.919	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.44	29703.311	29.645	31.8
2	33 Total PFHxS	79.91	4.34	6353.099	29.645	6.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.72	22157.229	154.177	10.7
2	34 Total PFOA	368.90	4.62	2983.835	154.177	0.7

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.10	23635.795	24.822	79.2
2	35 Total PFOS	79.92	5.00	16472.707	24.822	55.4

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_35_ugLTarget.qld

Last Altered: Monday, November 07, 2016 09:58:42 Pacific Standard Time

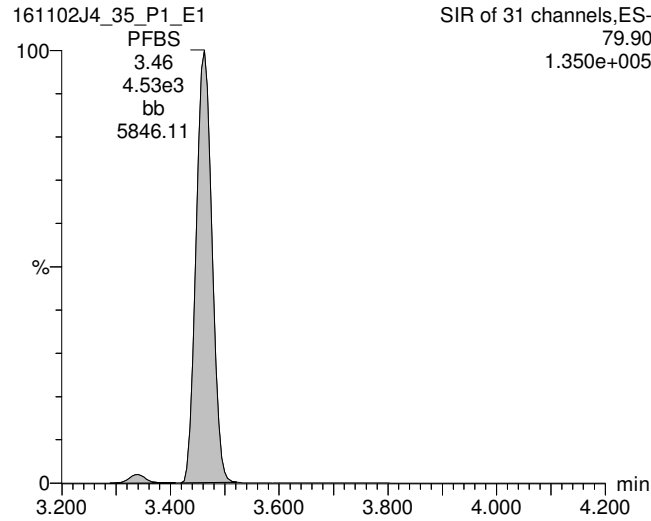
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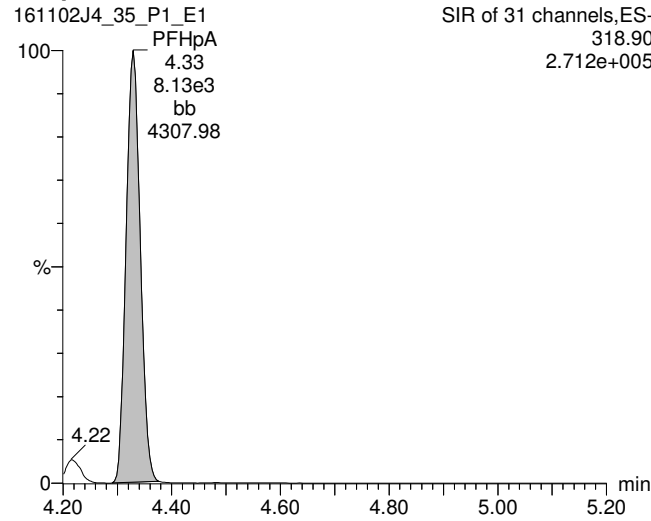
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07, Instrument: , Lab: ©PE-SCIEX, User: sciex

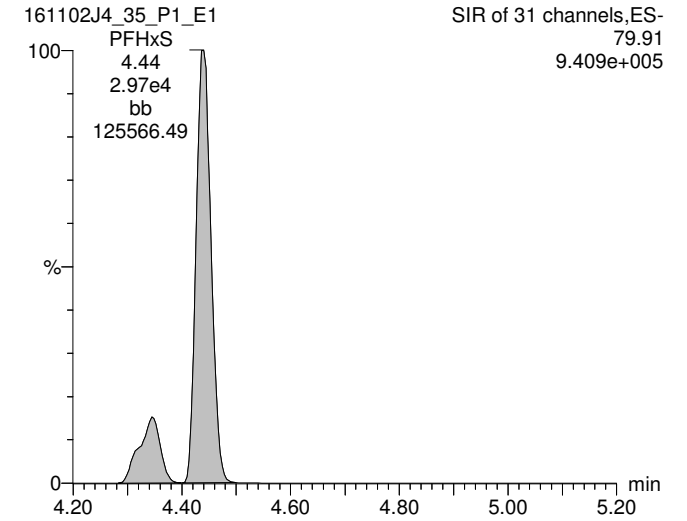
Total PFBS



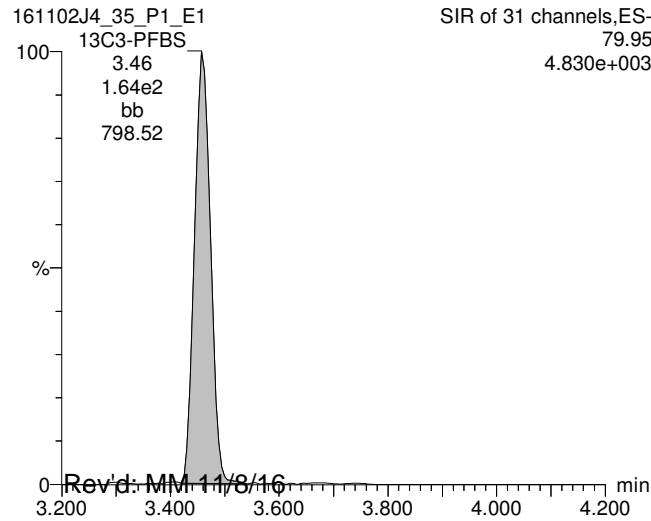
PFHpA



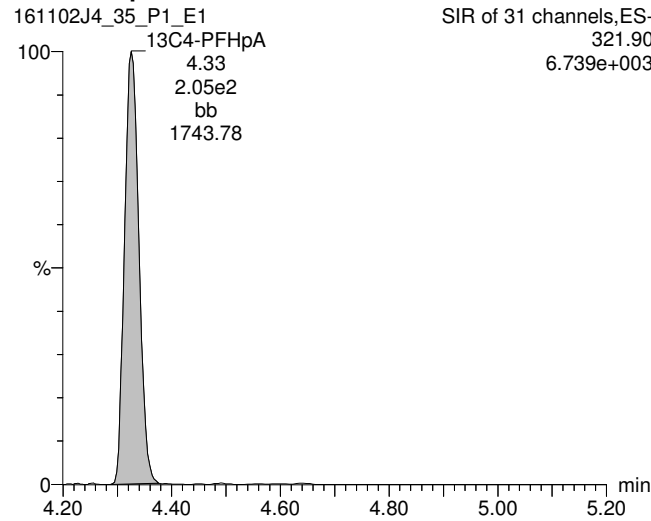
Total PFHxS



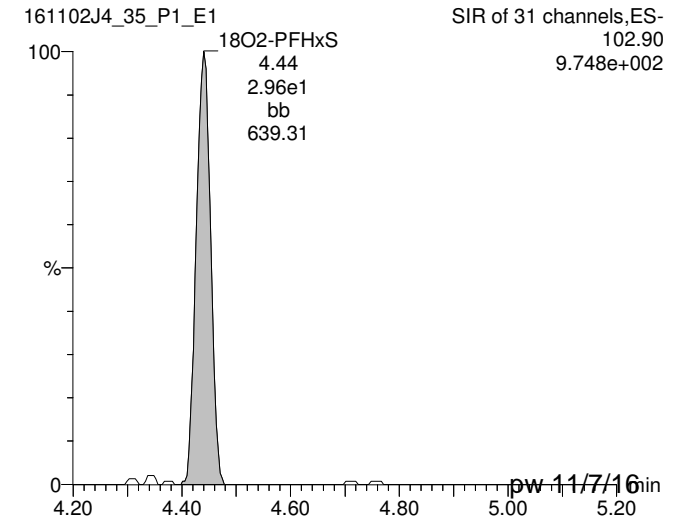
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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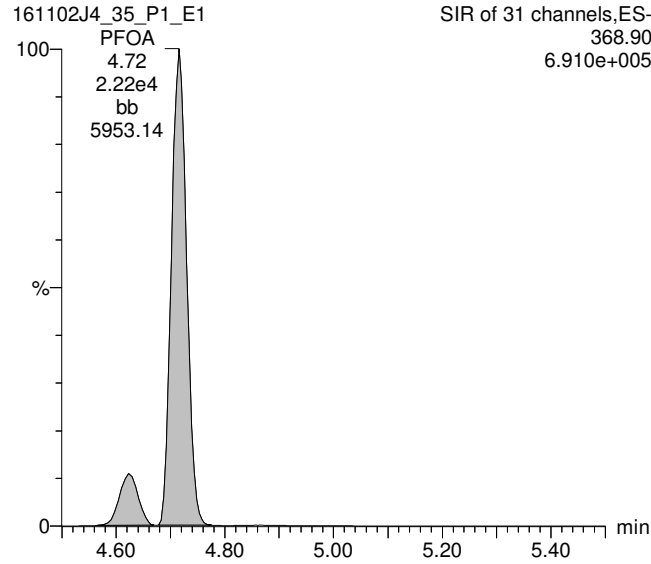
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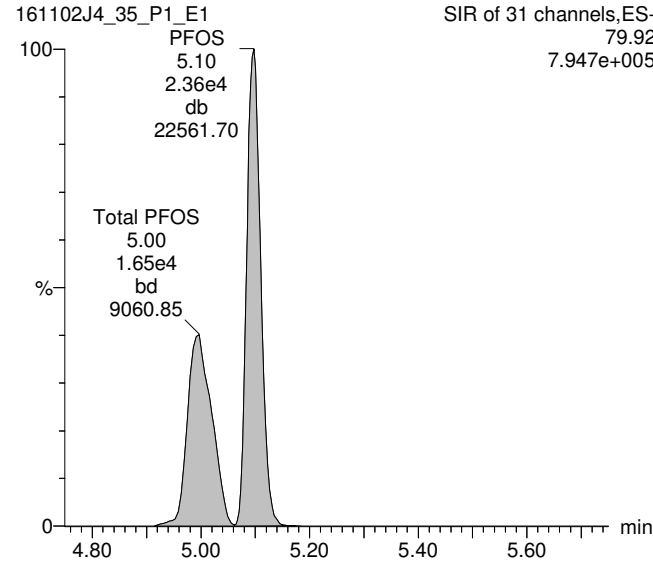
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ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07, Instrument: , Lab: ©PE-SCIEX, User: sciex

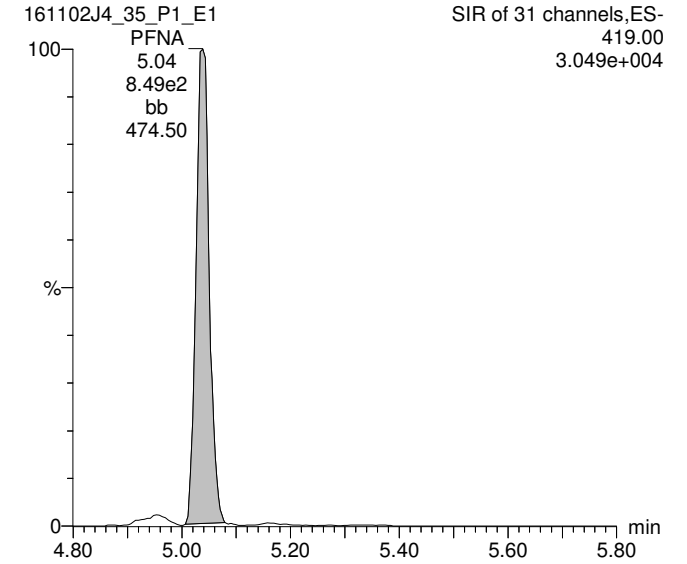
Total PFOA



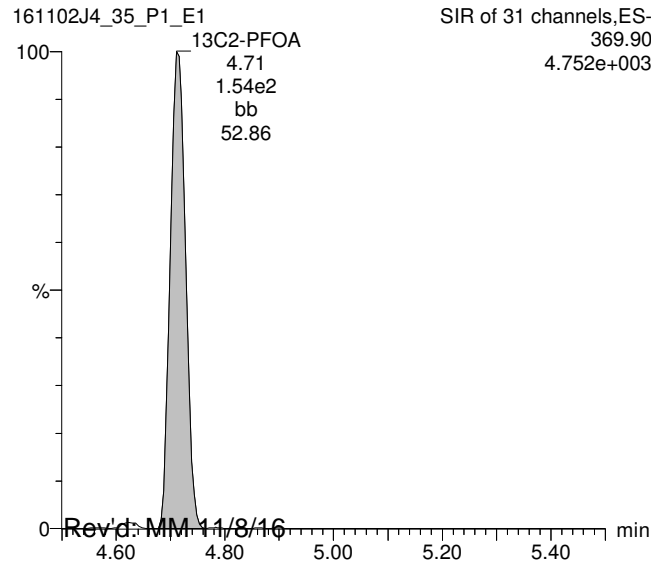
Total PFOS



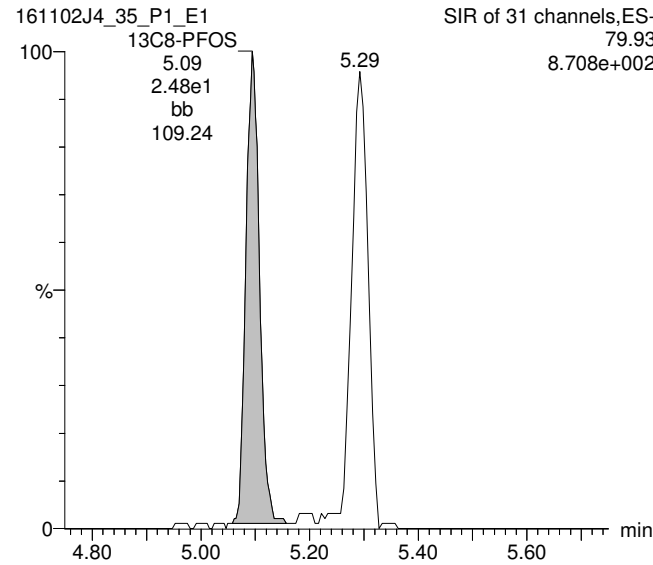
PFNA



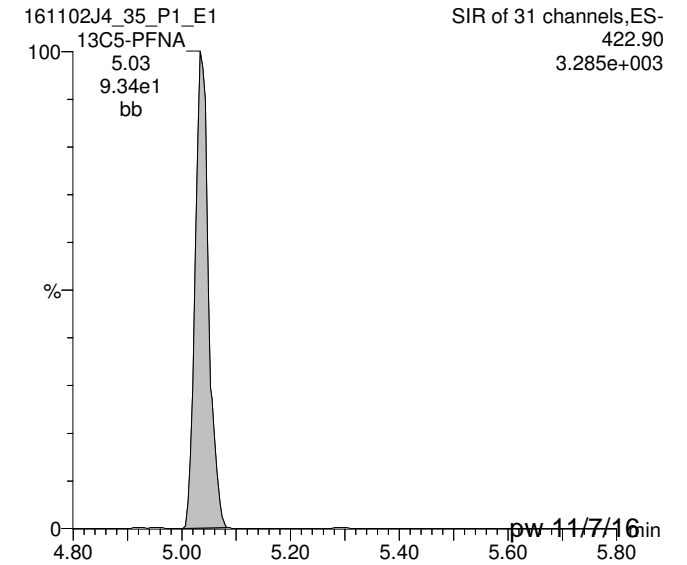
13C2-PFOA



13C8-PFOS



13C5-PFNA



Rev'd: MM-11/8/16

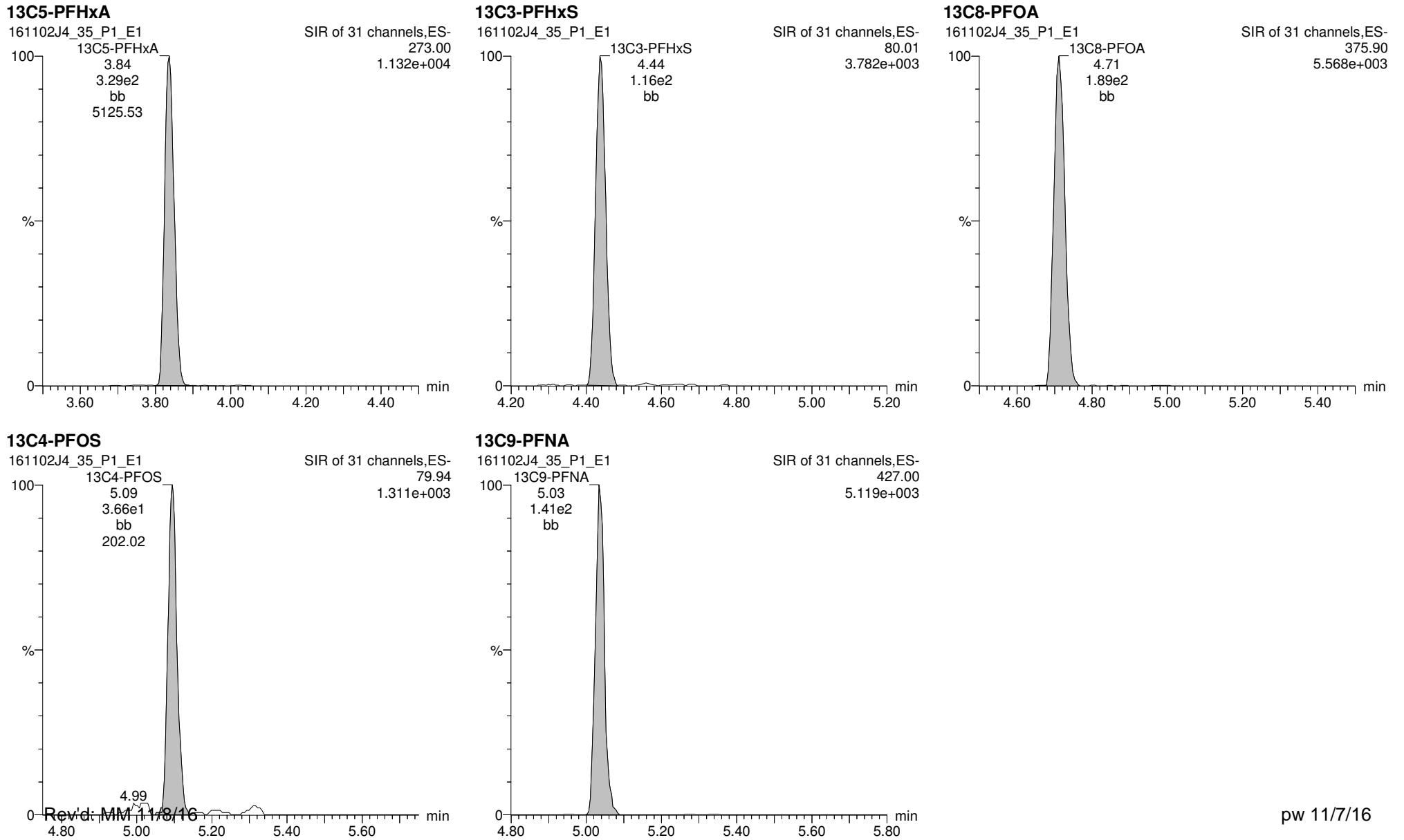
pw-11/7/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_35_ugLTarget.qld

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Printed: Monday, November 07, 2016 10:00:11 Pacific Standard Time

ID: 1601370-07@40x, Description: OW11-MW6-1016, Name: 161102J4_35.wiff, Date: 03-Nov-2016, Time: 02:54:07, Instrument: , Lab: ©PE-SCIEX, User: sciex



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Work Order 1601370

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Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-13.qld

Last Altered: Friday, November 04, 2016 13:54:24 Pacific Daylight Time

Printed: Monday, November 07, 2016 20:37:15 Pacific Standard Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-08 OW11-MW4-1016 0.125, Description: OW11-MW4-1016, Name: 161102G1_13, Date: 02-Nov-2016, Time: 13:25:28

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	1.917e5	2.389e3		0.129	2.98	5620 *	
2	5 PFHpA	363 > 318.9	2.772e5	7.479e3		0.129	3.85	2530 *	
3	6 PFHxS	398.9 > 79.6	6.015e5	1.587e3		0.129	3.97	24900 *	
4	8 PFOA	413 > 368.7	3.160e5	1.698e4		0.129	4.27	1980 *	
5	9 PFOS	499 > 79.9	3.513e5	1.903e3		0.129	4.67	20800 *	
6	10 PFNA	463 > 418.8	1.779e4	9.495e3		0.129	4.61	99.5	
7	15 13C3-PFBS	302.0 > 98.8	2.389e3	8.758e3	0.209	0.129	2.98	127	131 *
8	16 13C2-PFHxA	315 > 269.8	2.606e3	8.758e3	0.655	0.129	3.34	44.0	114 *
9	17 13C4-PFHpA	367.2 > 321.8	7.479e3	2.732e3	1.904	0.129	3.85	139	144 *
10	18 18O2-PFHxS	403 > 102.6	1.587e3	2.732e3	0.580	0.129	3.96	97.1	100 *
11	19 13C2-6:2 FTS	429.1 > 408.9	1.769e4	5.368e3	0.896	0.129	4.22	356	368 *
12	20 13C2-PFOA	414.9 > 369.7	1.698e4	9.098e3	2.326	0.129	4.27	77.7	80.2 *
13	21 13C8-PFOS	507.0 > 79.9	1.903e3	2.392e3	0.982	0.129	4.67	78.4	81.0 *
14	22 13C5-PFNA	468.2 > 422.9	9.495e3	1.102e4	1.038	0.129	4.61	80.4	83.0 *
15	27 13C5-PFHxA	318.0 > 272.9	8.758e3	8.758e3	1.000	0.129	3.34	96.9	100
16	28 13C3-PFHxS	401.9 > 79.9	2.732e3	2.732e3	1.000	0.129	3.97	96.9	100
17	29 13C8-PFOA	421.3 > 376	9.098e3	9.098e3	1.000	0.129	4.27	96.9	100
18	30 13C4-PFOS	503.0 > 79.9	2.392e3	2.392e3	1.000	0.129	4.67	96.9	100
19	31 13C9-PFNA	472.2 > 426.9	1.102e4	1.102e4	1.000	0.129	4.61	96.9	100
20	32 13C6-PFDA	519.1 > 473.7	1.113e4	1.113e4	1.000	0.129	4.90	96.9	100
21	33 Total PFBS	299 > 79.7		1.587e3		0.129		5930	
22	34 Total PFHxS	398.9 > 79.6		1.587e3		0.129		36700	
23	35 Total PFOA	413 > 368.7		1.698e4		0.129		2570	
24	36 Total PFOS	499 > 79.9		1.903e3		0.129		54700	

*see dil

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-13.qld

Last Altered: Friday, November 04, 2016 13:54:24 Pacific Daylight Time

Printed: Monday, November 07, 2016 20:37:15 Pacific Standard Time

Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-08 OW11-MW4-1016 0.125, Description: OW11-MW4-1016, Name: 161102G1_13, Date: 02-Nov-2016, Time: 13:25:28

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	299 > 79.7	2.98	191702.813	2388.718	5617.0
2	33 Total PFBS	299 > 79.7	2.87	7104.709	1587.064	313.8

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6	3.97	601461.813	1587.064	24918.7
2	34 Total PFHxS	398.9 > 79.6	3.87	203776.563	1587.064	8442.6
3	34 Total PFHxS	398.9 > 79.6	3.84	79962.102	1587.064	3312.9

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7	4.27	316017.094	16975.455	1982.1
2	35 Total PFOA	413 > 368.7	4.17	93308.750	16975.455	585.2

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	9 PFOS	499 > 79.9	4.67	351345.500	1903.214	20786.1
2	36 Total PFOS	499 > 79.9	4.59	154118.703	1903.214	9118.1
3	36 Total PFOS	499 > 79.9	4.56	338887.000	1903.214	20049.0
4	36 Total PFOS	499 > 79.9	4.46	80426.758	1903.214	4758.5

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-13.qld

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Printed: Monday, November 07, 2016 20:37:15 Pacific Standard Time

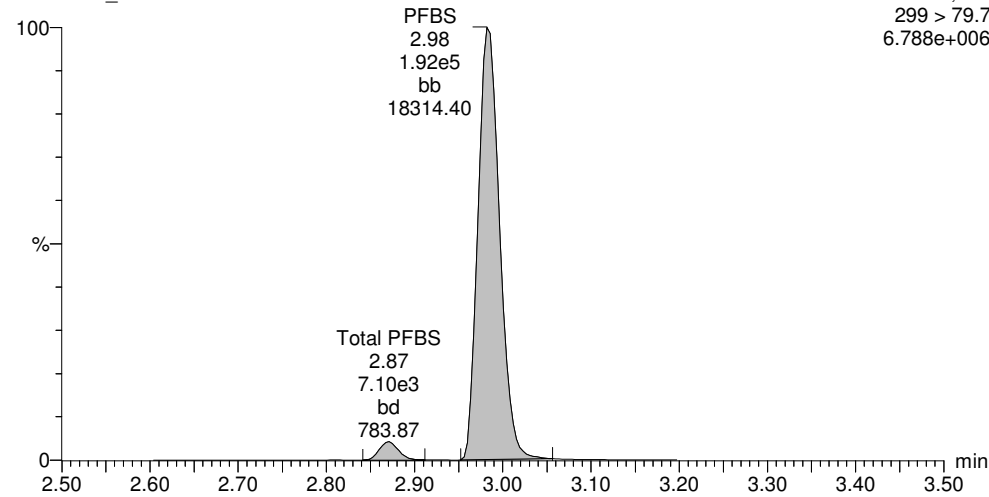
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ID: 1601370-08 OW11-MW4-1016 0.125, Description: OW11-MW4-1016, Name: 161102G1_13, Date: 02-Nov-2016, Time: 13:25:28, Instrument: , Lab: , User:

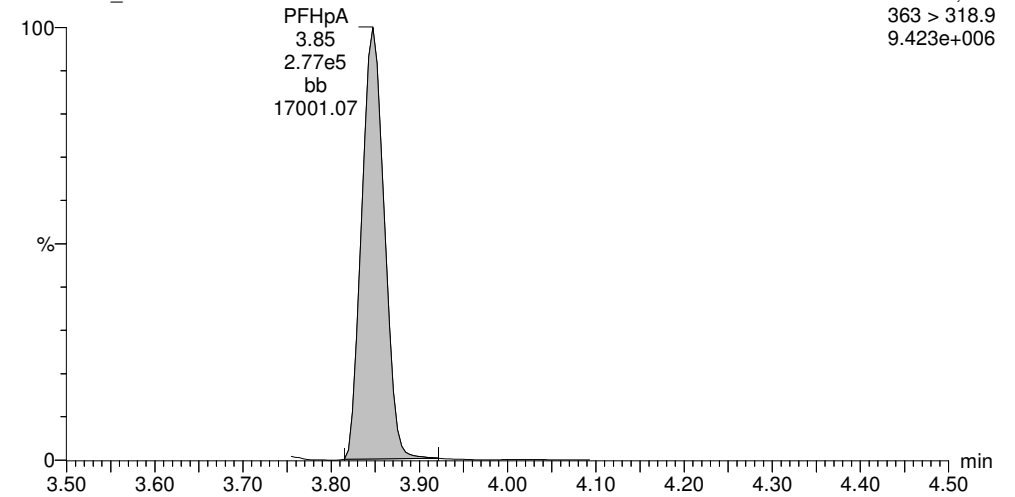
Total PFBS

161102G1_13



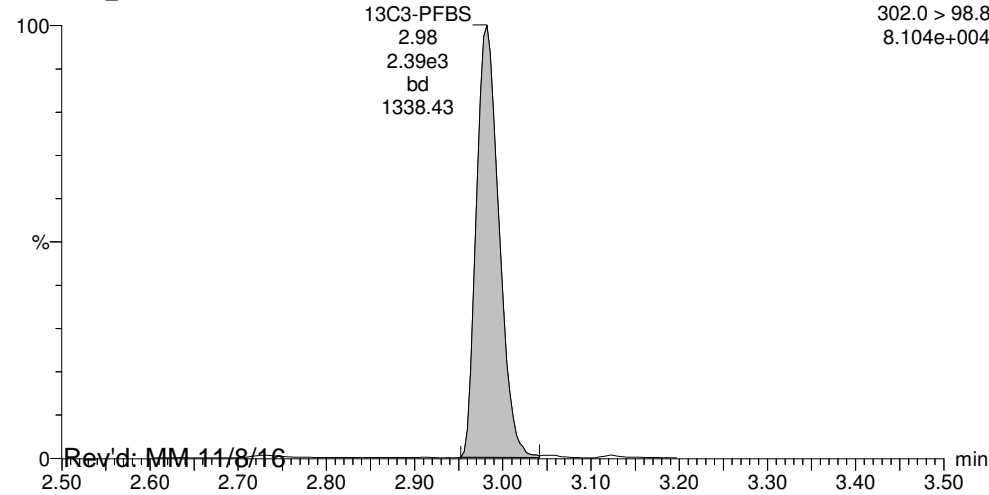
PFHpA

161102G1_13



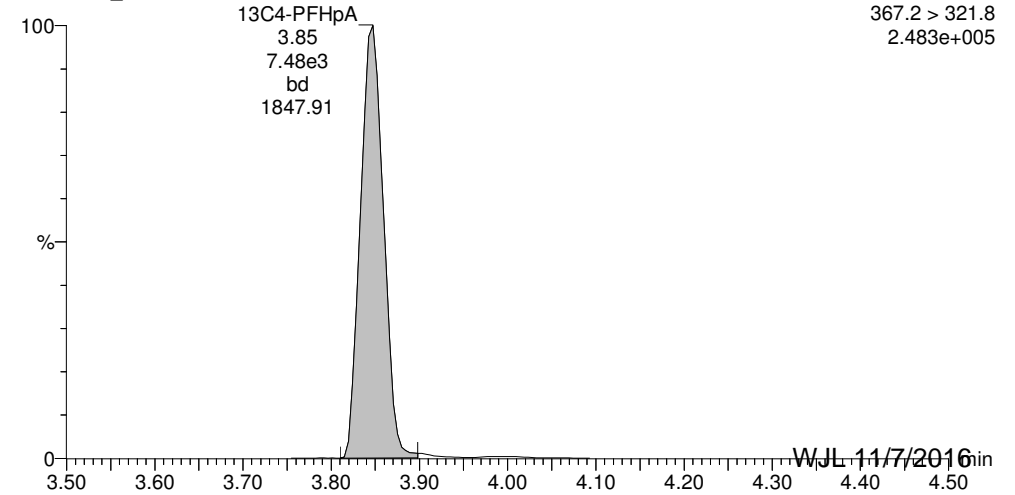
13C3-PFBS

161102G1_13



13C4-PFHpA

161102G1_13



Rev'd: MM 11/8/16

WJL 11/7/2016

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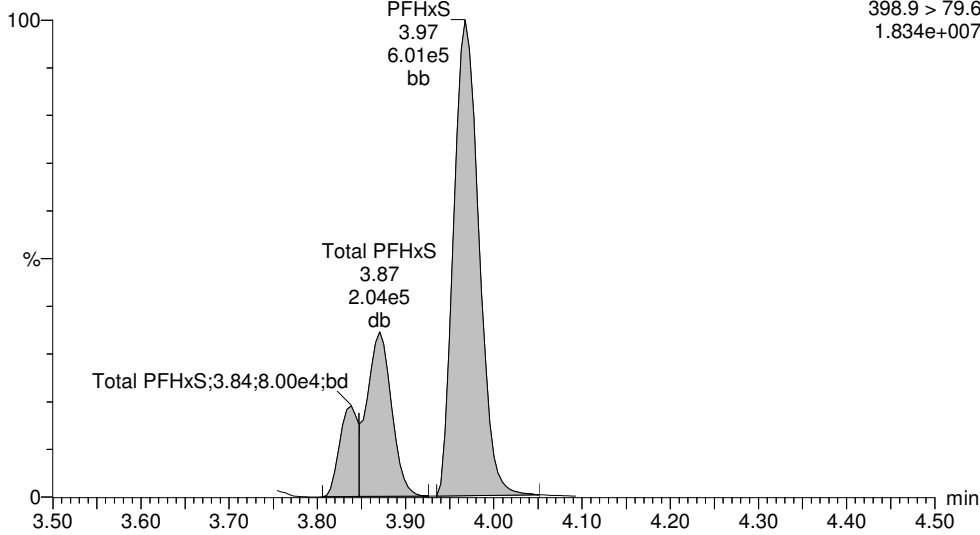
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Printed: Monday, November 07, 2016 20:37:15 Pacific Standard Time

ID: 1601370-08 OW11-MW4-1016 0.125, Description: OW11-MW4-1016, Name: 161102G1_13, Date: 02-Nov-2016, Time: 13:25:28, Instrument: , Lab: , User:

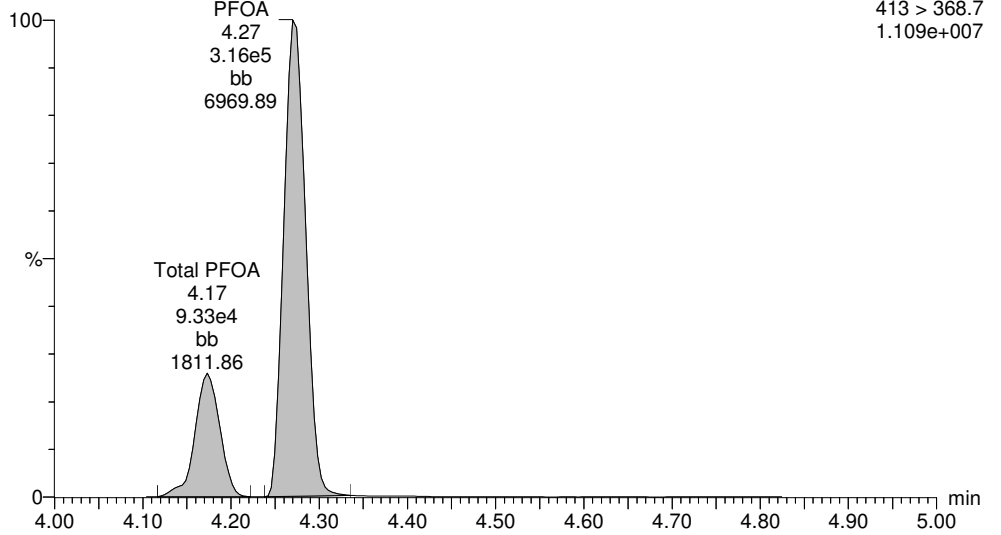
Total PFHxS

161102G1_13



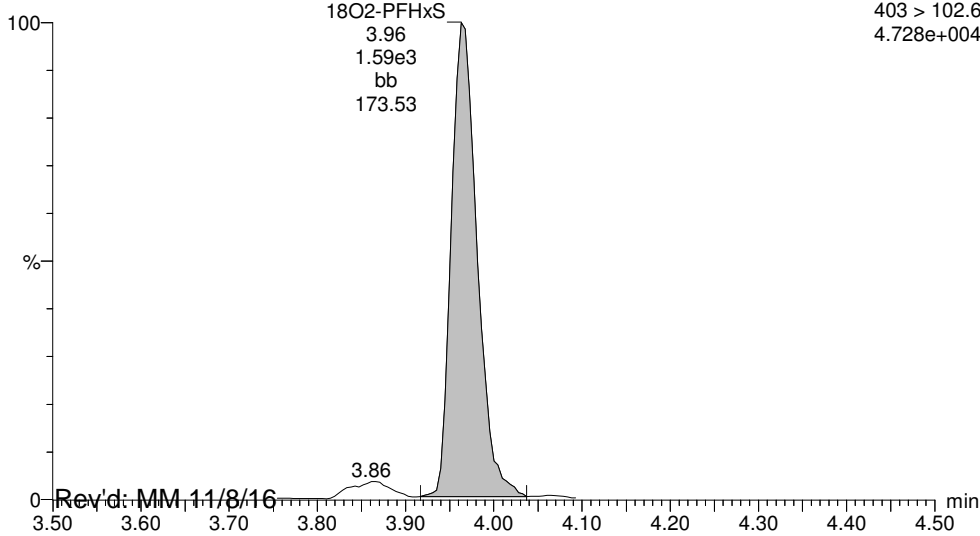
Total PFOA

161102G1_13



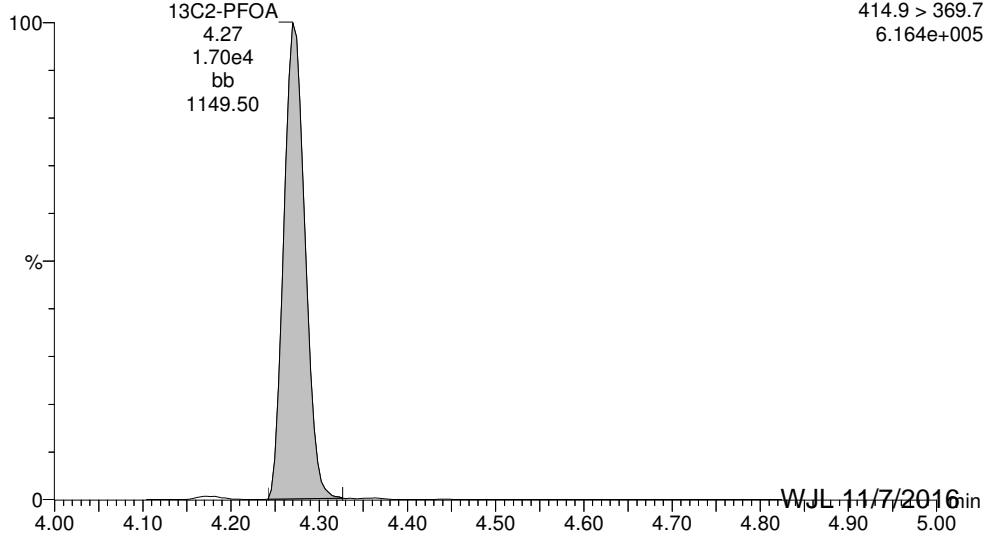
18O2-PFHxS

161102G1_13



13C2-PFOA

161102G1_13



Rev'd: MM, 11/8/16

WJL 11/7/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-13.qld

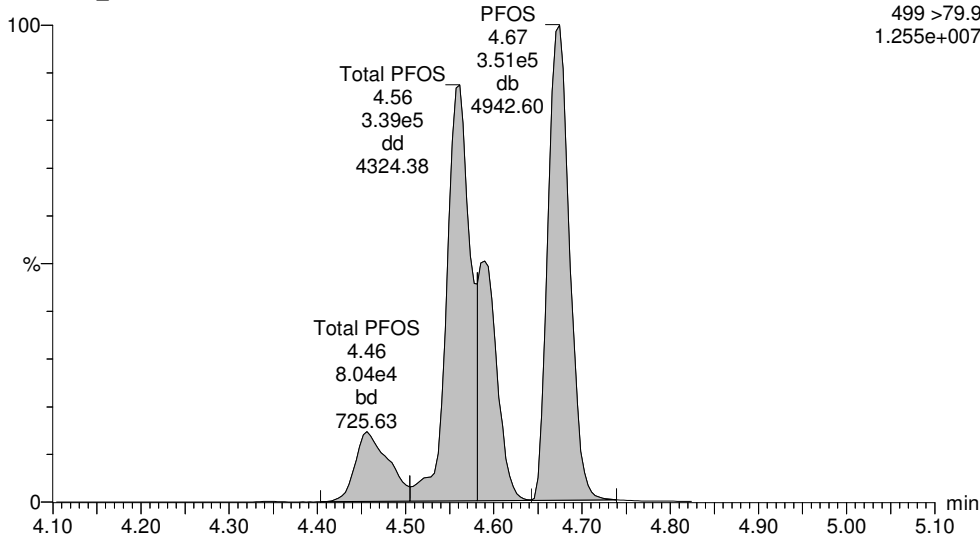
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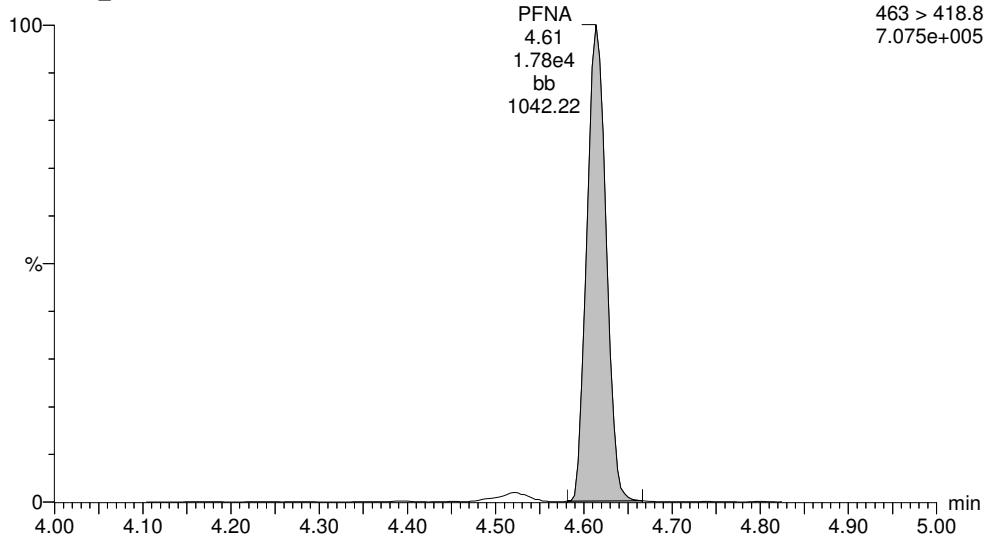
Total PFOS

161102G1_13



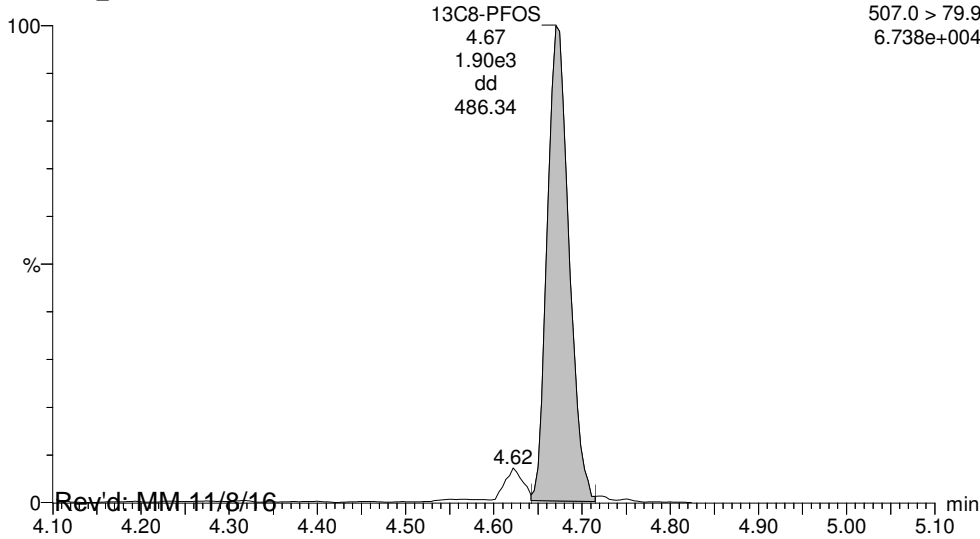
PFNA

161102G1_13



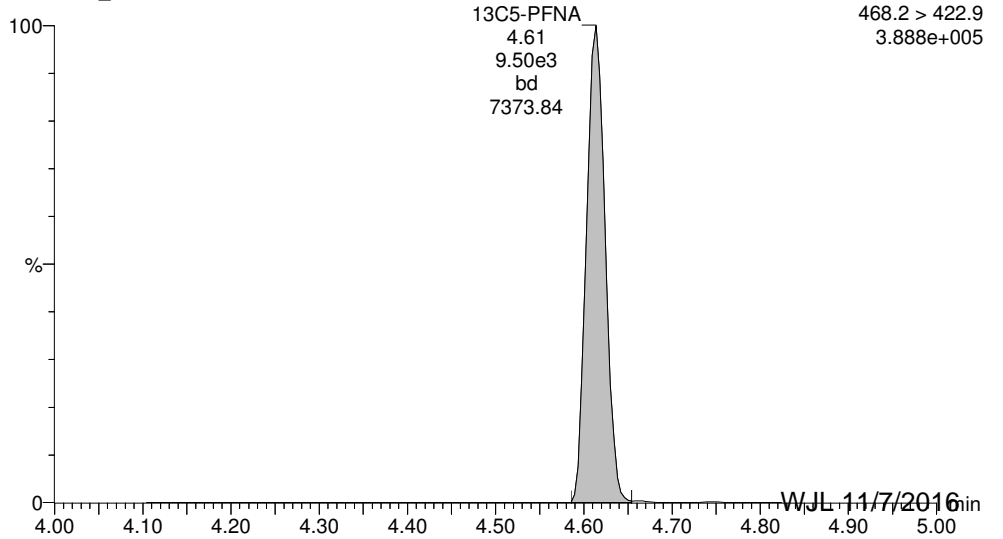
13C8-PFOS

161102G1_13



13C5-PFNA

161102G1_13



Rev'd: MM 11/8/16

WJL 11/7/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-13.qld

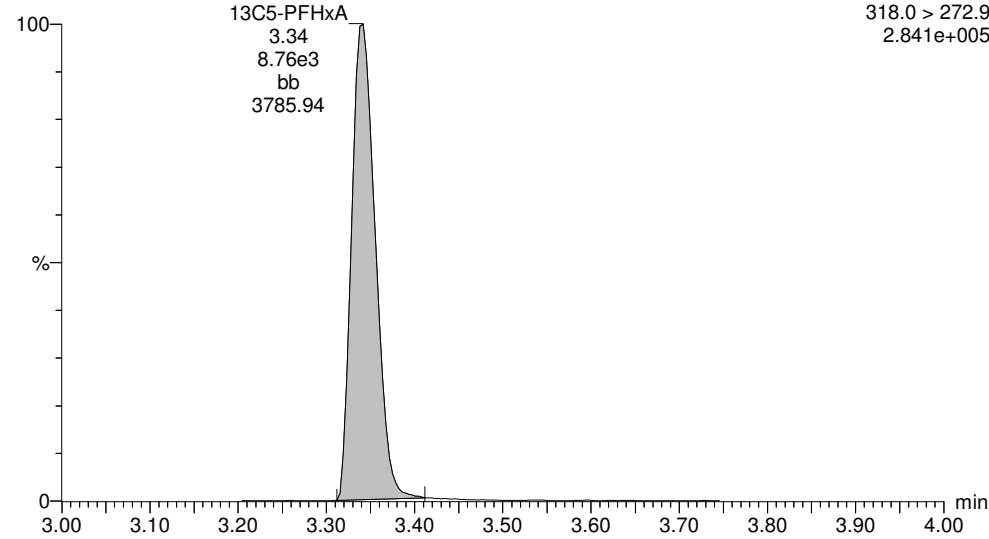
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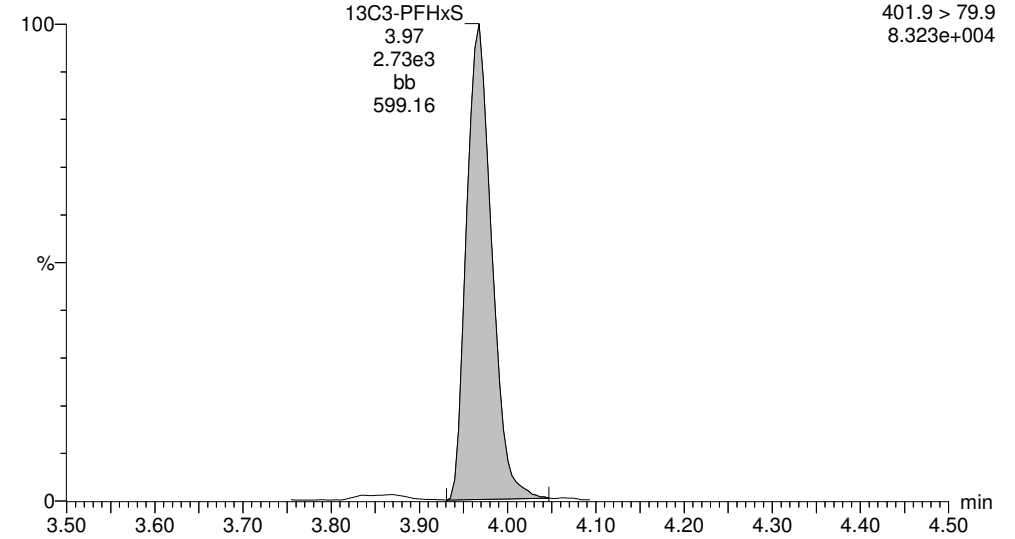
13C5-PFHxA

161102G1_13



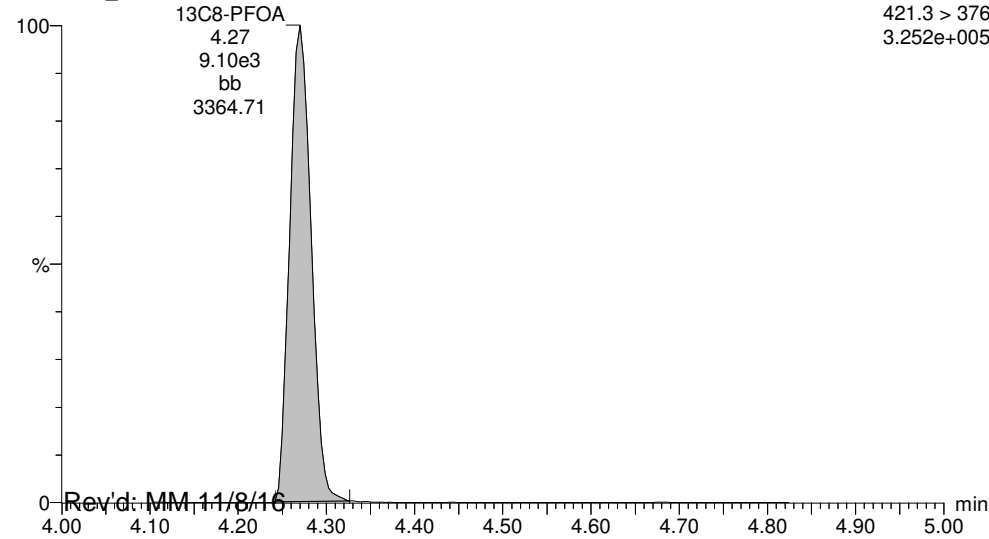
13C3-PFHxS

161102G1_13



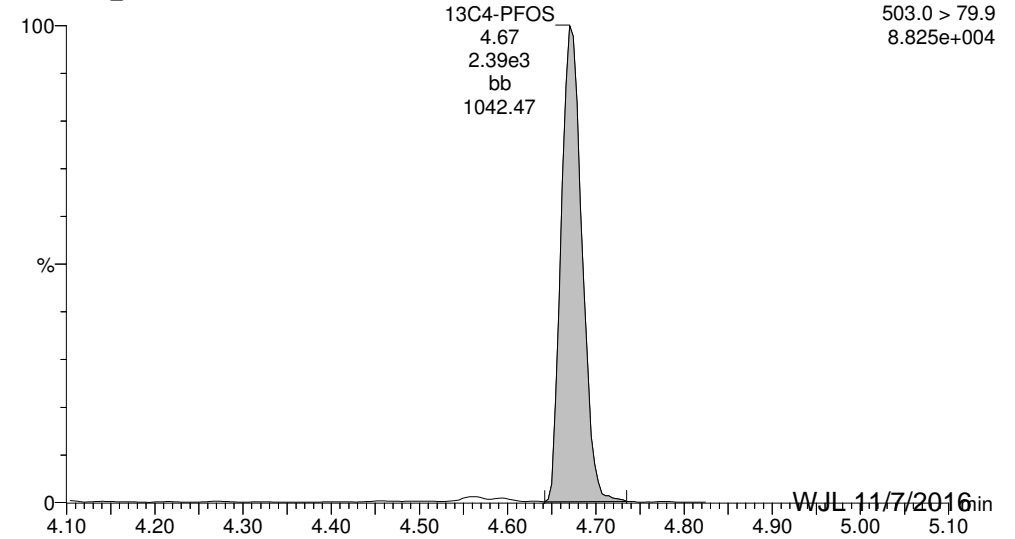
13C8-PFOA

161102G1_13



13C4-PFOS

161102G1_13



Rev'd: MM 11/8/16

WJL 11/7/2016

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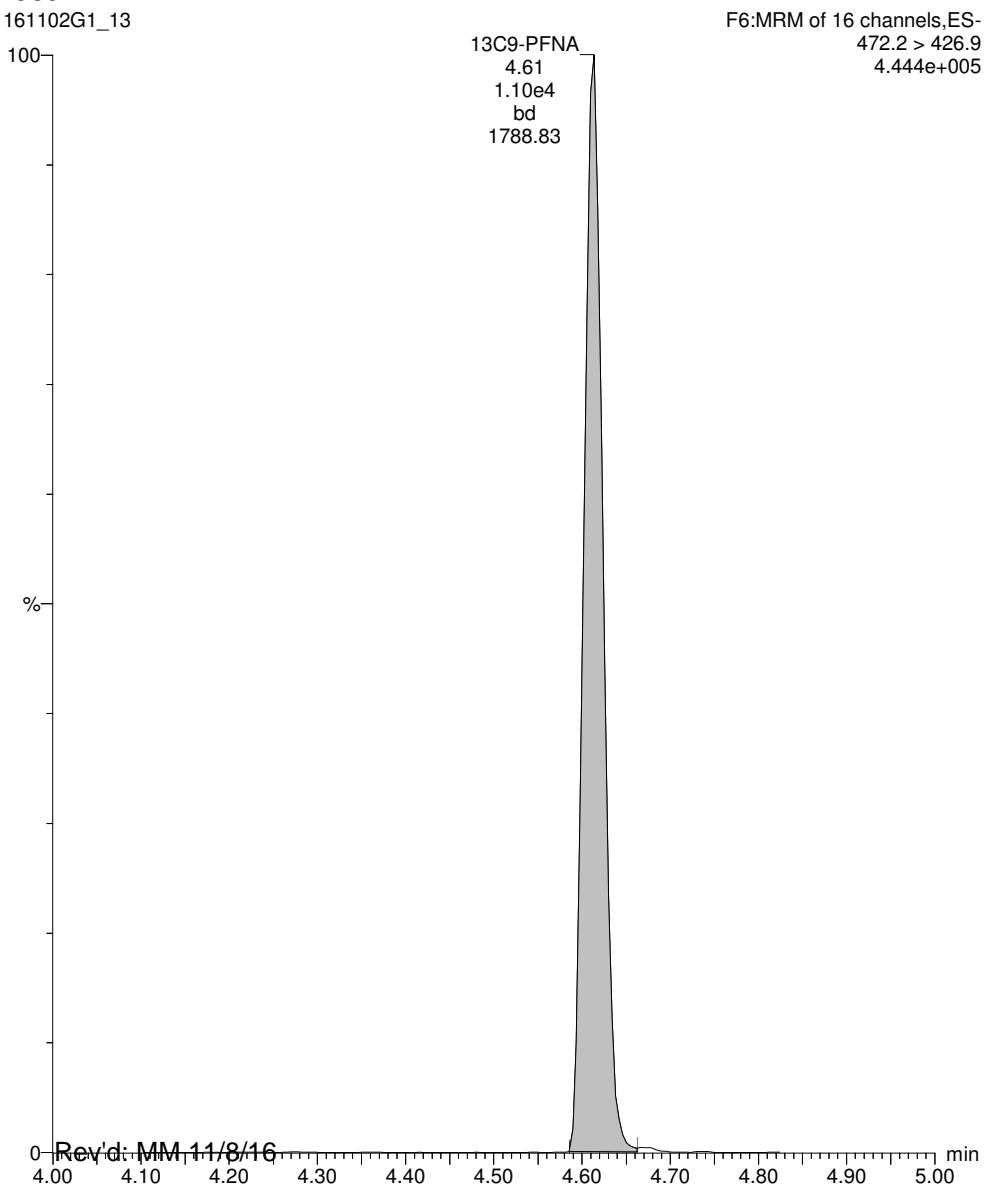
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ID: 1601370-08 OW11-MW4-1016 0.125, Description: OW11-MW4-1016, Name: 161102G1_13, Date: 02-Nov-2016, Time: 13:25:28, Instrument: , Lab: , User:

13C9-PFNA

161102G1_13



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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_39_ngLTarget.qld

Last Altered: Monday, November 07, 2016 10:05:09 Pacific Standard Time

Printed: Monday, November 07, 2016 10:07:38 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-08@40x, Description: OW11-MW4-1016, Name: 161102J4_39.wiff, Date: 03-Nov-2016, Time: 03:43:06

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	79.90	6.311e3	1.493e2		0.129	3.47	5160	
2	6 PFHxS	79.91	2.052e4	2.466e1		0.129	4.45	25600	
3	9 PFNA	419.00	7.720e1	9.549e1		0.129	5.04	92.5	
4	10 PFOS	79.92	8.188e3	2.842e1		0.129	5.09	22900	
5	15 13C3-PFBS	79.95	1.493e2	2.767e2	0.549	0.129	3.46	95.2	98.2
6	16 13C2-PFHxA	269.90	1.051e2	2.767e2	0.897	0.129	3.84	41.0	106
7	17 13C4-PFHpA	321.90	1.787e2	2.767e2	0.794	0.129	4.33	78.8	81.3
8	18 18O2-PFHxS	102.90	2.466e1	9.203e1	0.284	0.129	4.45	91.5	94.5
9	19 13C2-6:2 FTS	408.90	3.050e2	1.459e2	0.280	0.129	4.68	724	748
10	20 13C2-PFOA	369.90	9.806e1	1.459e2	0.809	0.129	4.73	80.5	83.1
11	21 13C5-PFNA	422.90	9.549e1	1.088e2	1.020	0.129	5.03	83.3	86.0
12	22 13C8-PFOS	79.93	2.842e1	3.992e1	0.947	0.129	5.09	72.8	75.2
13	25 13C4-PFBA	171.90	3.147e2	3.147e2	1.000	0.129	2.03	96.9	100
14	26 13C5-PFHxA	273.00	2.767e2	2.767e2	1.000	0.129	3.84	96.9	100
15	27 13C3-PFHxS	80.01	9.203e1	9.203e1	1.000	0.129	4.44	96.9	100
16	28 13C8-PFOA	375.90	1.459e2	1.459e2	1.000	0.129	4.72	96.9	100
17	29 13C4-PFOS	79.94	3.992e1	3.992e1	1.000	0.129	5.09	96.9	100
18	30 13C9-PFNA	427.00	1.088e2	1.088e2	1.000	0.129	5.03	96.9	100
19	31 13C6-PFDA	474.00	4.999e1	4.999e1	1.000	0.129	5.30	96.9	100
20	32 Total PFBS	79.90		1.493e2		0.129		5270	
21	33 Total PFHxS	79.91		2.466e1		0.129		33100	
22	34 Total PFOA	368.90		9.806e1		0.129		539	
23	35 Total PFOS	79.92		2.842e1		0.129		44700	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_39_ngLTarget.qld

Last Altered: Monday, November 07, 2016 10:05:09 Pacific Standard Time

Printed: Monday, November 07, 2016 10:07:38 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-08@40x, Description: OW11-MW4-1016, Name: 161102J4_39.wiff, Date: 03-Nov-2016, Time: 03:43:06

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.47	6310.915	149.311	5161.2
2	32 Total PFBS	79.90	3.35	135.902	149.311	110.7

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.45	20516.059	24.661	25604.5
2	33 Total PFHxS	79.91	4.35	4363.778	24.661	5445.9
3	33 Total PFHxS	79.91	4.33	1628.823	24.661	2032.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.73	3051.769	98.059	
2	34 Total PFOA	368.90	4.64	585.517	98.059	538.7

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	8188.034	28.423	22898.2
2	35 Total PFOS	79.92	4.99	7811.508	28.423	21845.2

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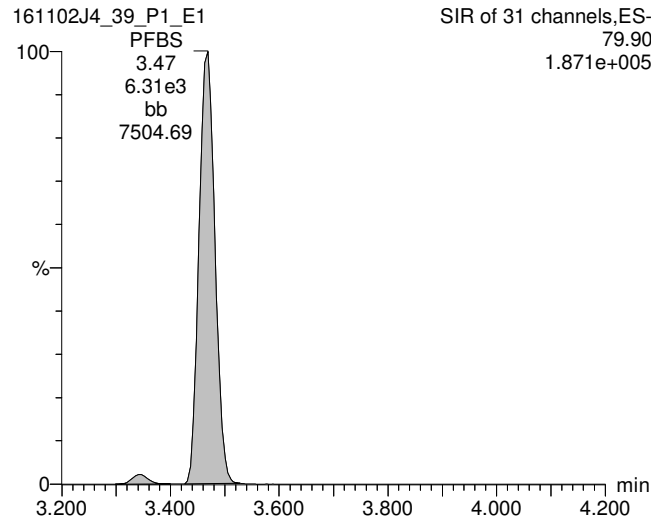
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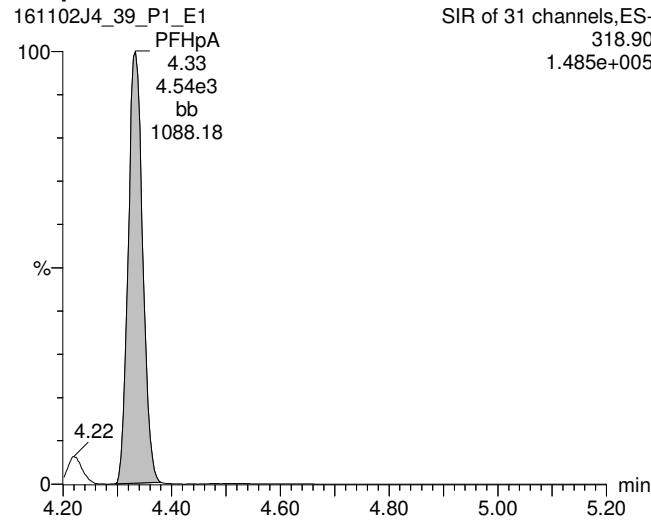
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ID: 1601370-08@40x, Description: OW11-MW4-1016, Name: 161102J4_39.wiff, Date: 03-Nov-2016, Time: 03:43:06, Instrument: , Lab: ©PE-SCIEX, User: sciex

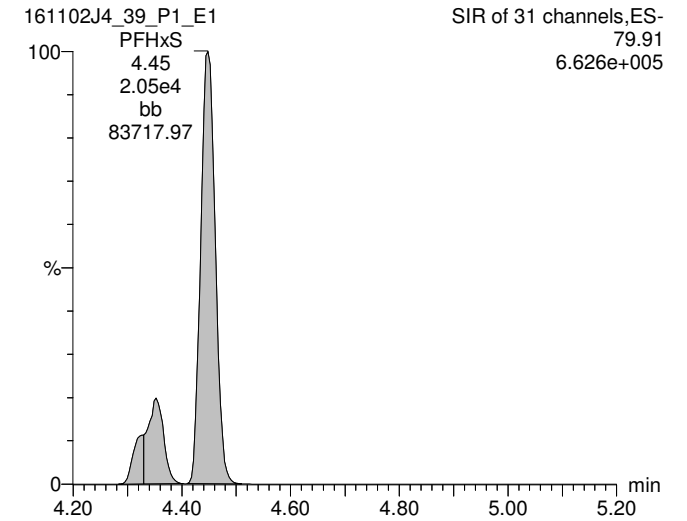
Total PFBS



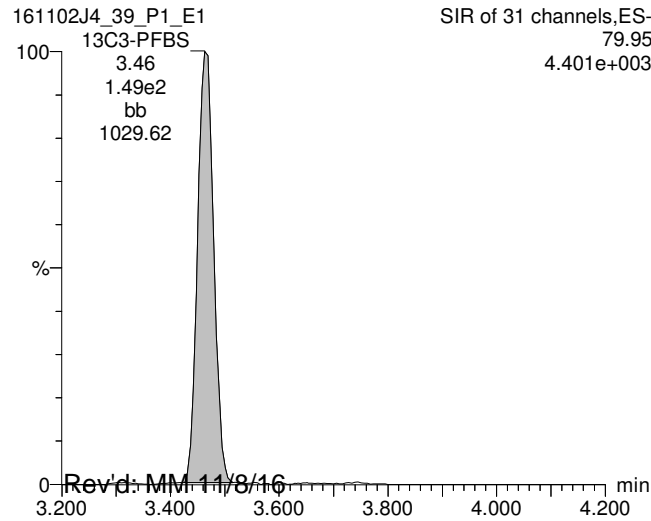
PFHpA



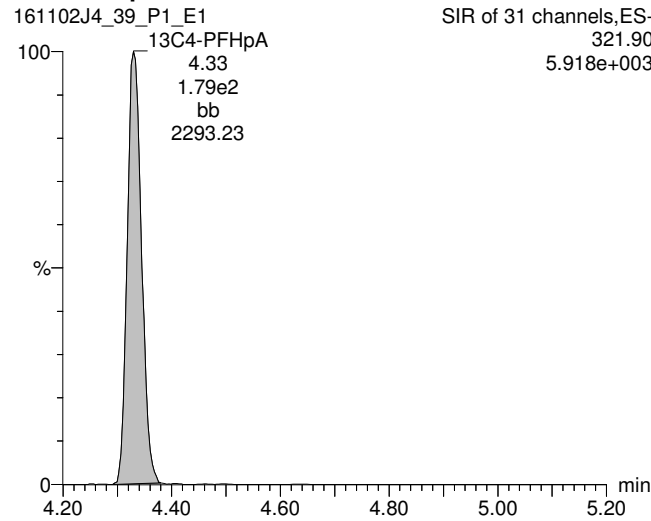
Total PFHxS



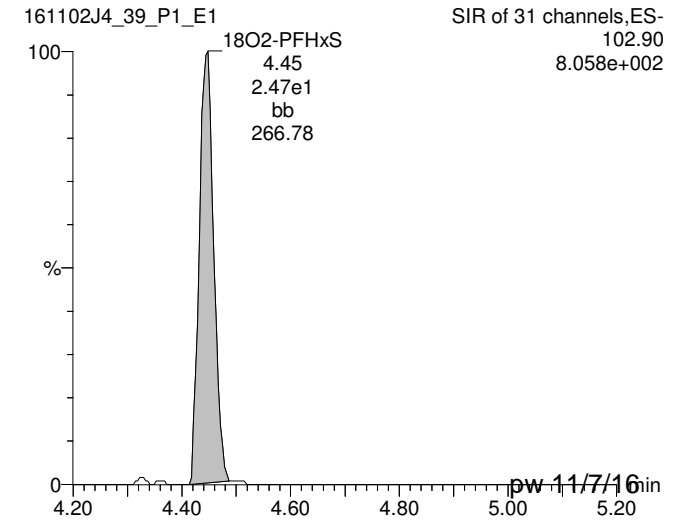
13C3-PFBS



13C4-PFHpA

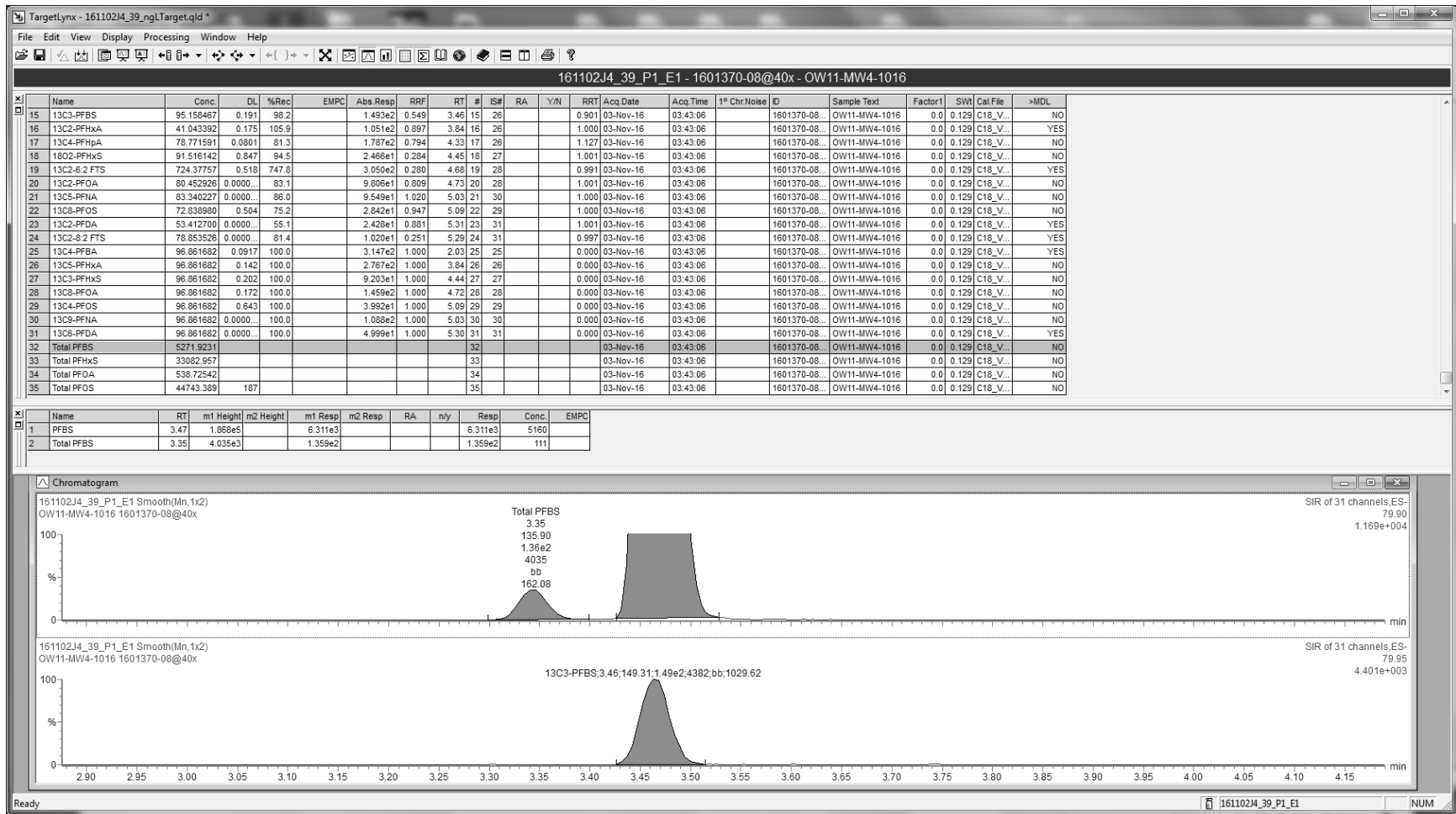


18O2-PFHxS



Rev'd: MM-11/8/16

pw-11/7/16



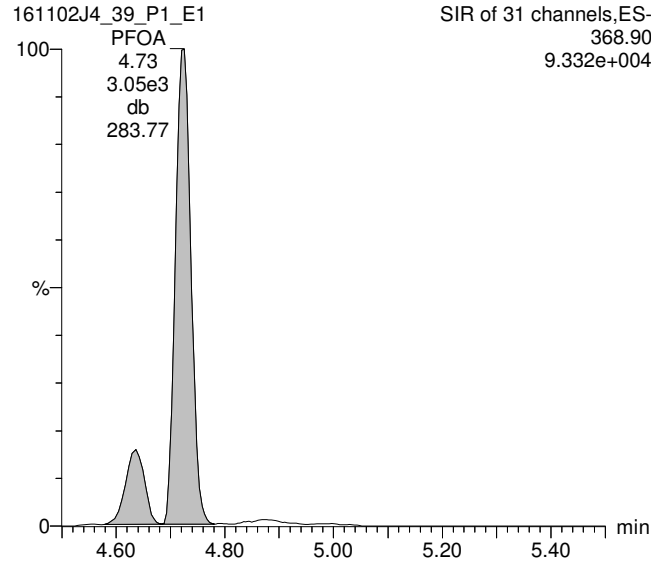
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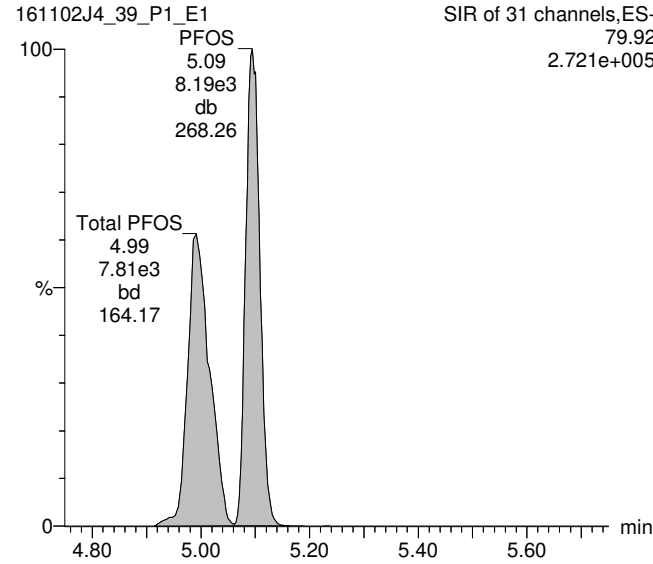
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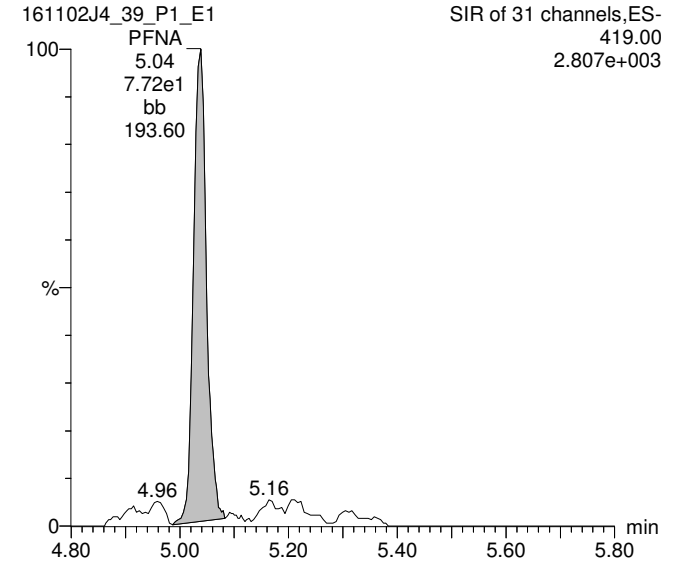
Total PFOA



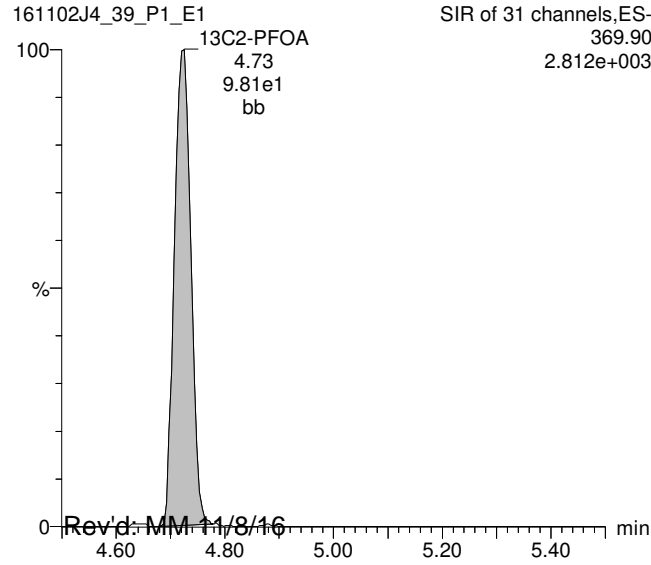
Total PFOS



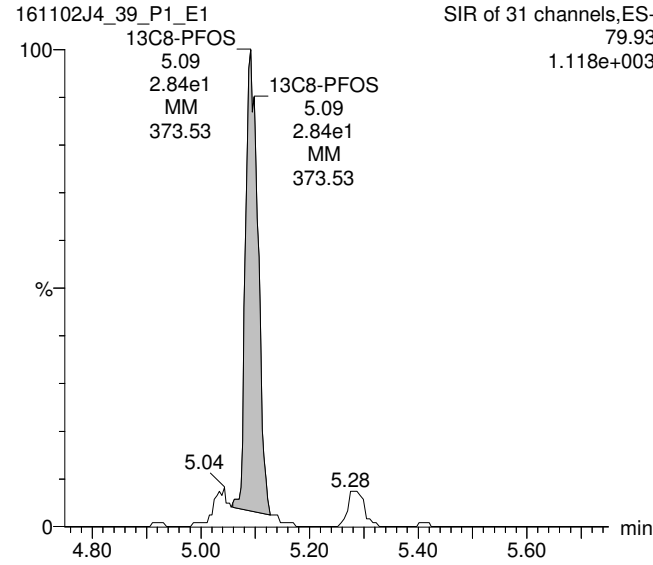
PFNA



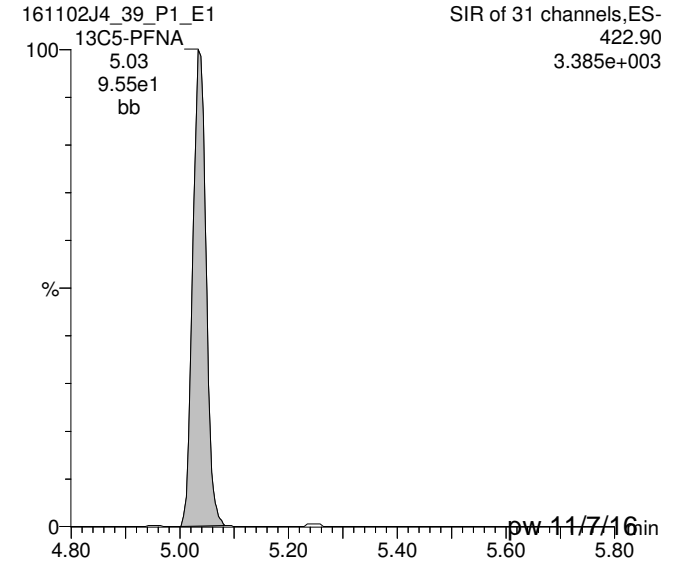
13C2-PFOA



13C8-PFOS



13C5-PFNA



Rev'd: MM 11/8/16

pw 11/7/16

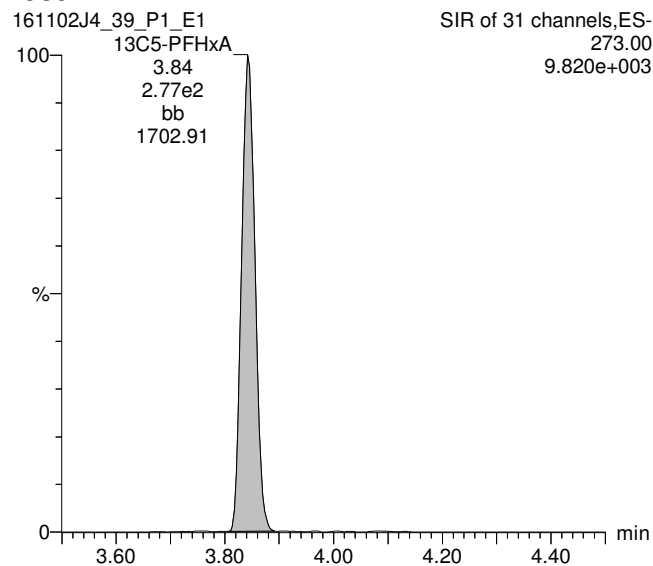
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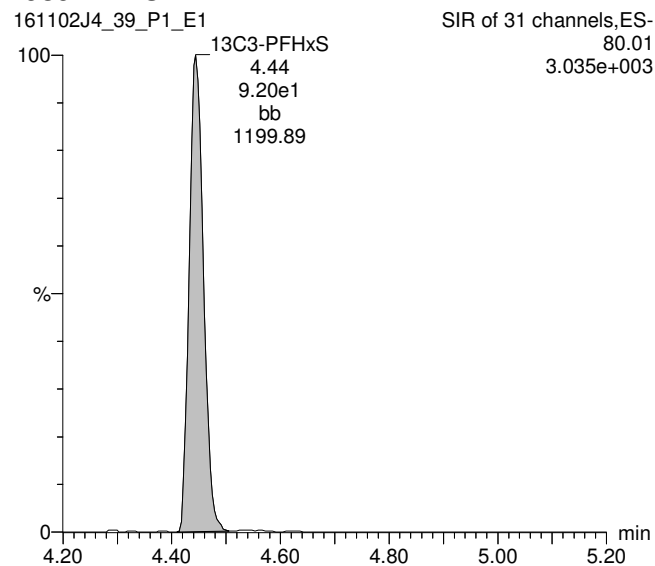
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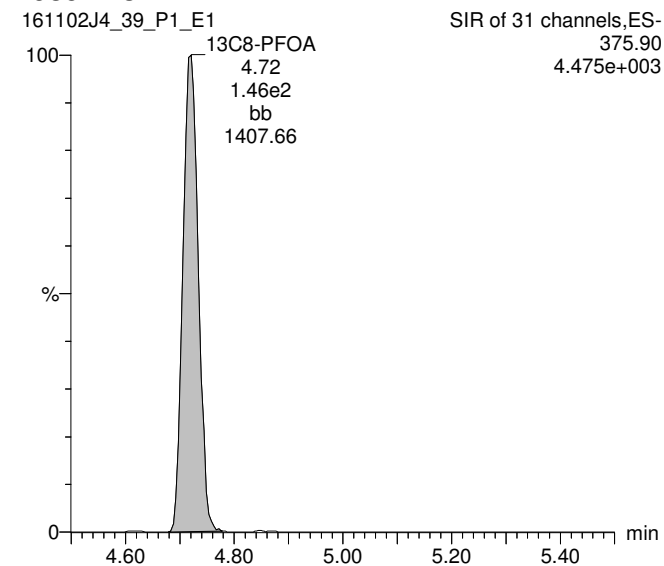
13C5-PFHxA



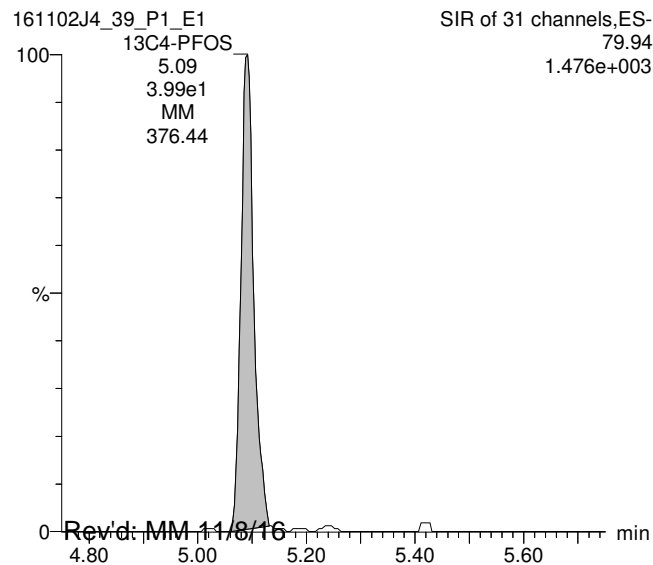
13C3-PFHxS



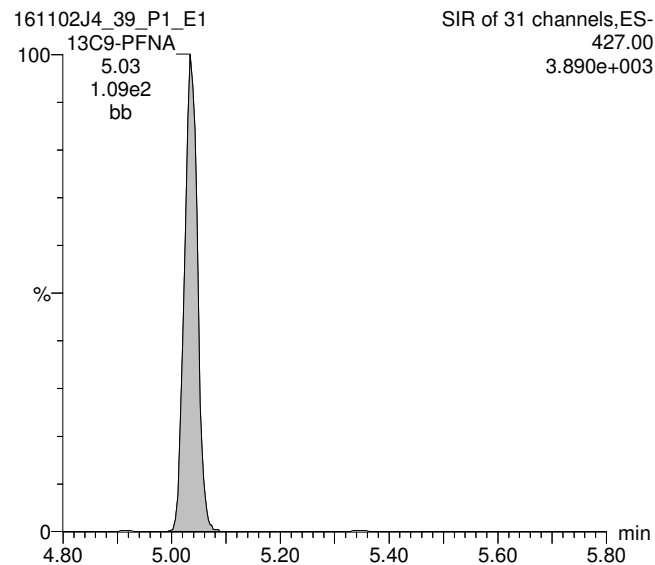
13C8-PFOA



13C4-PFOS



13C9-PFNA



Dataset: U:\Q2.PRO\Results\161102J4\161102J4_39_ugLTarget.qld

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Printed: Monday, November 07, 2016 10:13:39 Pacific Standard Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-08@40x, Description: OW11-MW4-1016, Name: 161102J4_39.wiff, Date: 03-Nov-2016, Time: 03:43:06

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	5 PFHpA	318.90	4.540e3	1.787e2		0.129	4.33	2.63	
2	8 PFOA	368.90	3.052e3	9.806e1		0.129	4.73	1.54	
3	15 13C3-PFBS	79.95	1.493e2	2.767e2	0.549	0.129	3.46	0.0952	98.2
4	16 13C2-PFHxA	269.90	1.051e2	2.767e2	0.897	0.129	3.84	0.0410	106
5	17 13C4-PFHpA	321.90	1.787e2	2.767e2	0.794	0.129	4.33	0.0788	81.3
6	18 18O2-PFHxS	102.90	2.466e1	9.203e1	0.284	0.129	4.45	0.0915	94.5
7	19 13C2-6:2 FTS	408.90	3.050e2	1.459e2	0.280	0.129	4.68	0.724	748
8	20 13C2-PFOA	369.90	9.806e1	1.459e2	0.809	0.129	4.73	0.0805	83.1
9	21 13C5-PFNA	422.90	9.549e1	1.088e2	1.020	0.129	5.03	0.0833	86.0
10	22 13C8-PFOS	79.93	2.910e1	4.083e1	0.947	0.129	5.09	0.0729	75.3
11	25 13C4-PFBA	171.90	3.147e2	3.147e2	1.000	0.129	2.03	0.0969	100
12	26 13C5-PFHxA	273.00	2.767e2	2.767e2	1.000	0.129	3.84	0.0969	100
13	27 13C3-PFHxS	80.01	9.203e1	9.203e1	1.000	0.129	4.44	0.0969	100
14	28 13C8-PFOA	375.90	1.459e2	1.459e2	1.000	0.129	4.72	0.0969	100
15	29 13C4-PFOS	79.94	4.083e1	4.083e1	1.000	0.129	5.09	0.0969	100
16	30 13C9-PFNA	427.00	1.088e2	1.088e2	1.000	0.129	5.03	0.0969	100
17	31 13C6-PFDA	474.00	4.999e1	4.999e1	1.000	0.129	5.30	0.0969	100
18	32 Total PFBS	79.90		1.493e2		0.129		4.72	
19	33 Total PFHxS	79.91		2.466e1		0.129		32.3	
20	34 Total PFOA	368.90		9.806e1		0.129		1.54	
21	35 Total PFOS	79.92		2.910e1		0.129		44.8	

Target = ug/L

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_39_ugLTarget.qld

Last Altered: Monday, November 07, 2016 10:12:38 Pacific Standard Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

ID: 1601370-08@40x, Description: OW11-MW4-1016, Name: 161102J4_39.wiff, Date: 03-Nov-2016, Time: 03:43:06

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.47	6310.915	149.311	4.7
2	32 Total PFBS	79.90	3.35	135.902	149.311	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.45	20516.059	24.661	25.3
2	33 Total PFHxS	79.91	4.35	4363.778	24.661	5.2
3	33 Total PFHxS	79.91	4.33	1628.823	24.661	1.8

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.73	3051.769	98.059	1.5
2	34 Total PFOA	368.90	4.64	585.517	98.059	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.09	8188.034	29.098	22.9
2	35 Total PFOS	79.92	4.99	7811.508	29.098	21.9

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_39_ugLTarget.qld

Last Altered: Monday, November 07, 2016 10:12:38 Pacific Standard Time

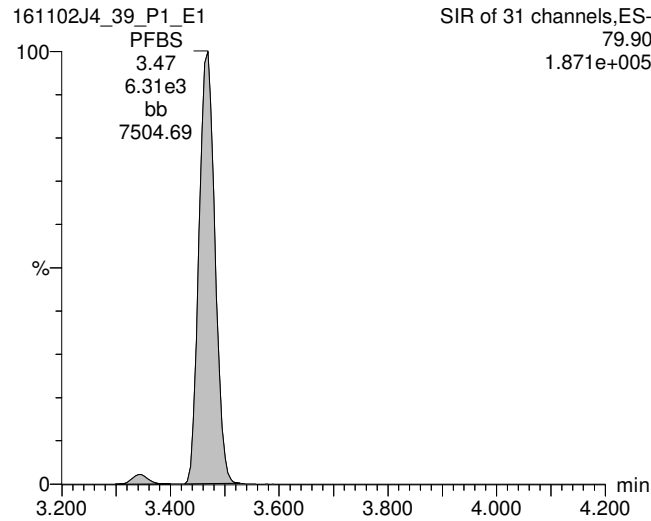
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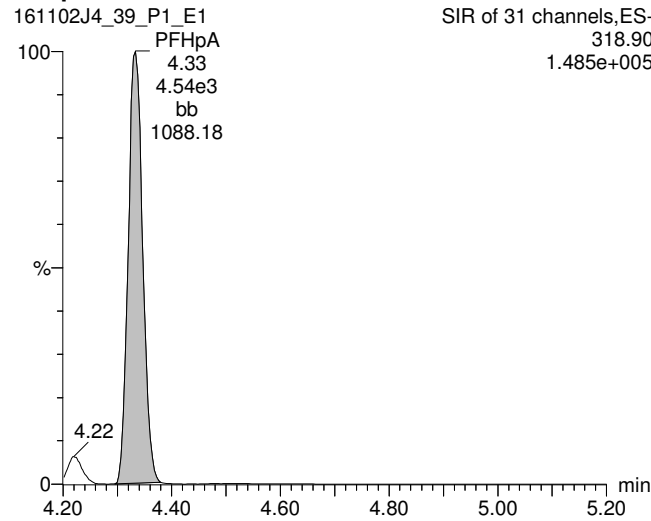
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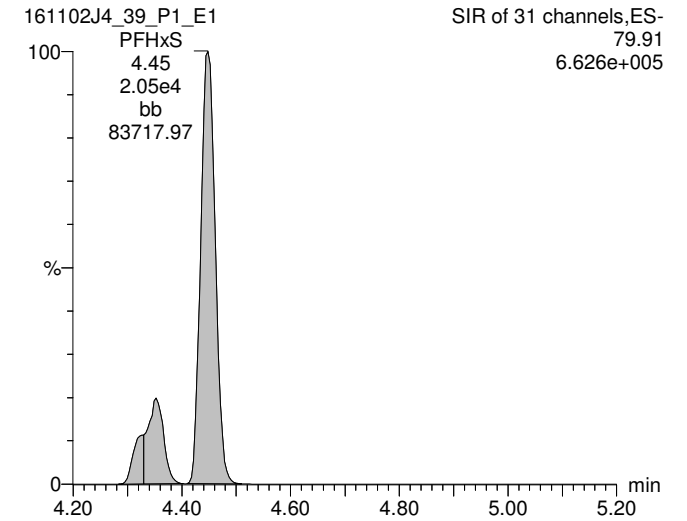
Total PFBS



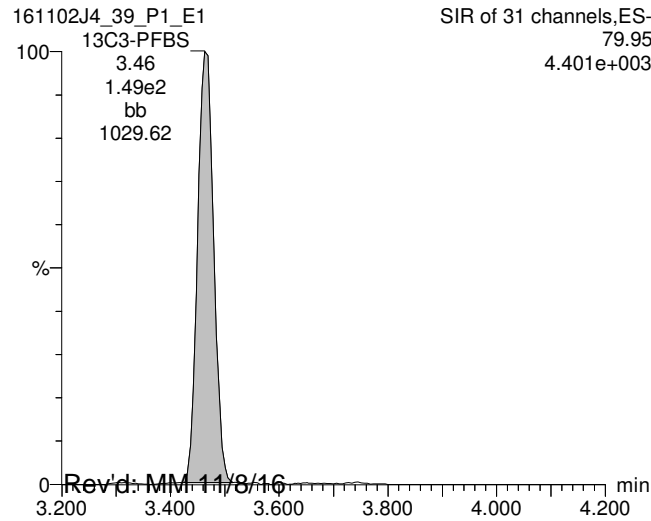
PFHpA



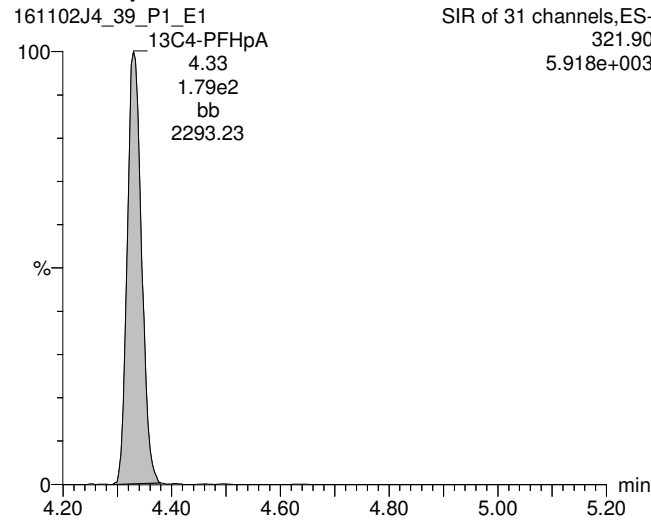
Total PFHxS



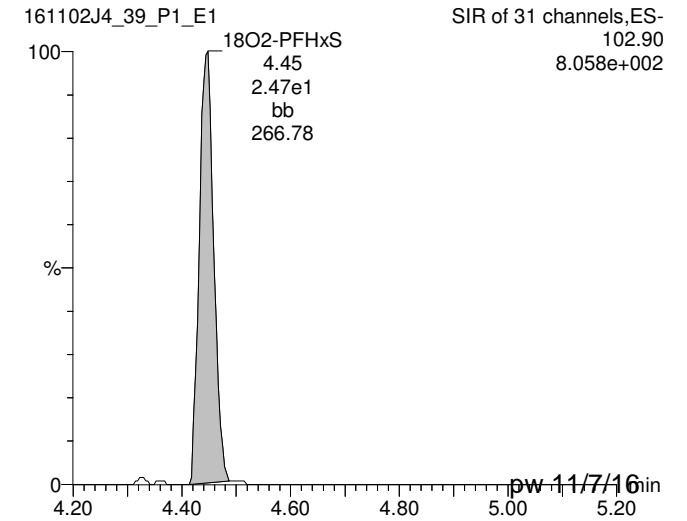
13C3-PFBS



13C4-PFHpA



18O2-PFHxS



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pw-11/7/16

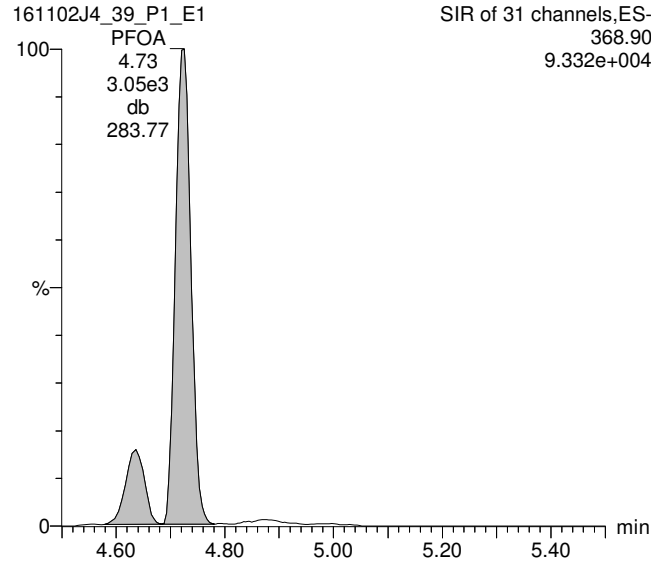
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Last Altered: Monday, November 07, 2016 10:12:38 Pacific Standard Time

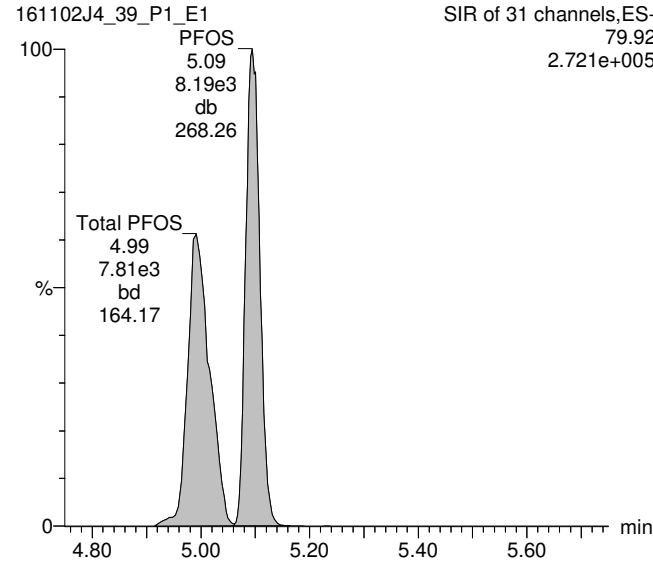
Printed: Monday, November 07, 2016 10:13:39 Pacific Standard Time

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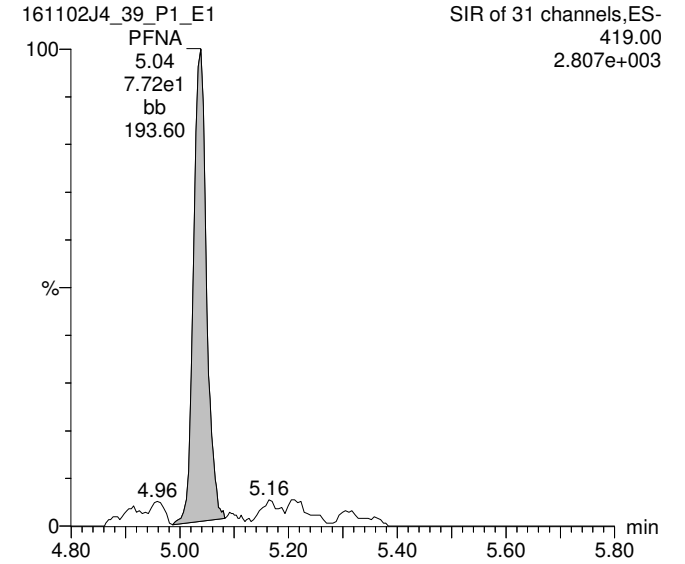
Total PFOA



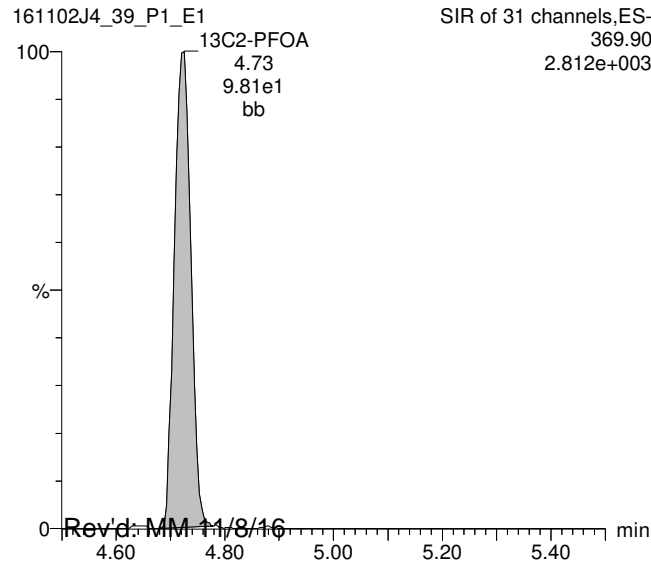
Total PFOS



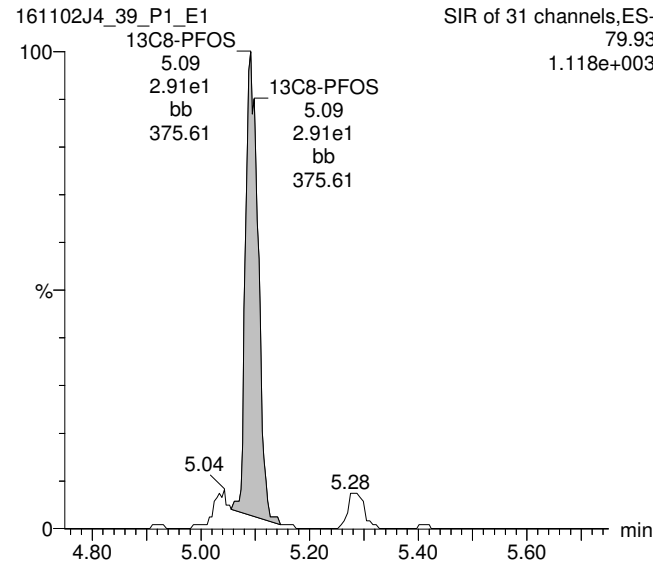
PFNA



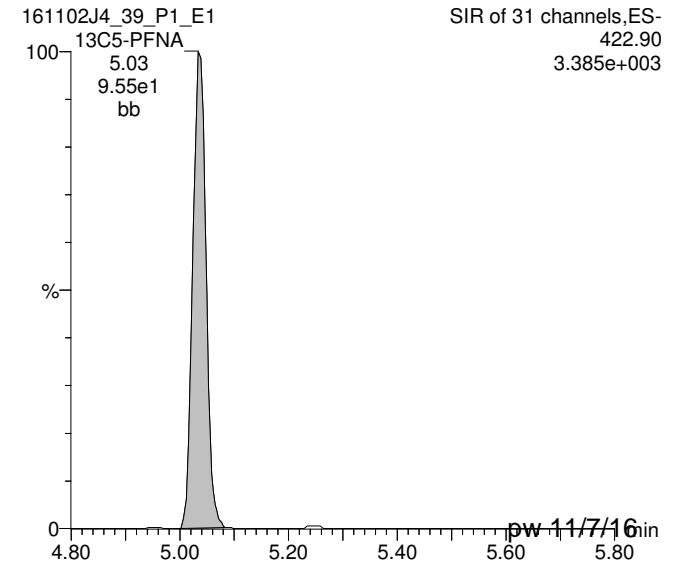
13C2-PFOA



13C8-PFOS



13C5-PFNA



Rev'd: MM 11/8/16

pw 11/7/16

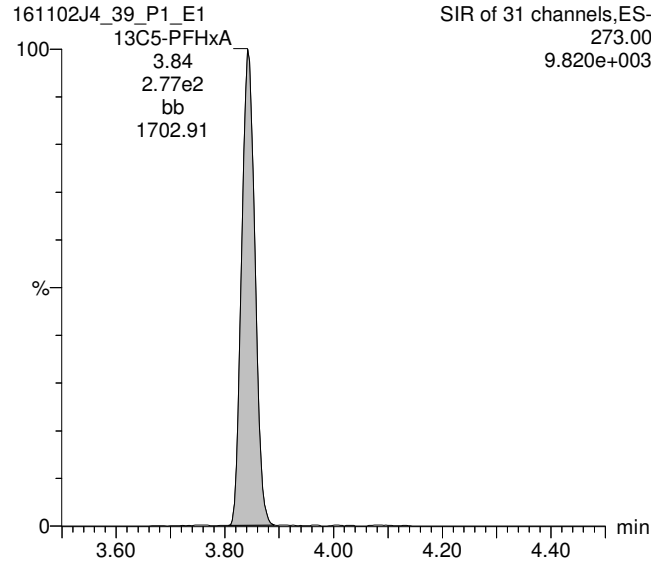
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Last Altered: Monday, November 07, 2016 10:12:38 Pacific Standard Time

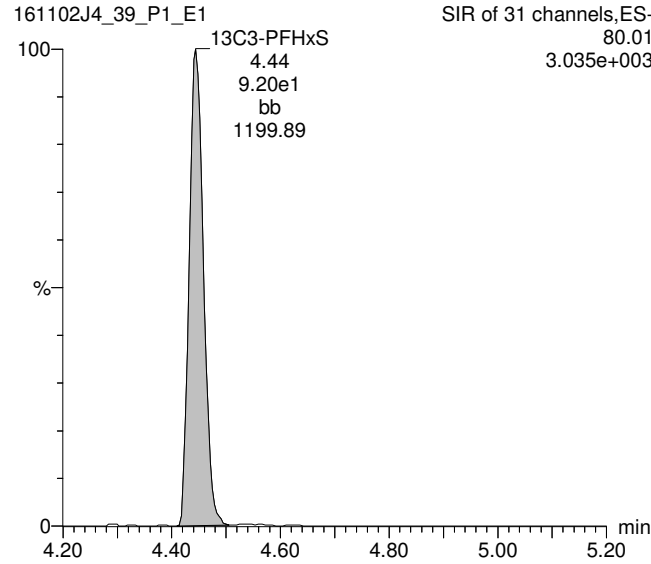
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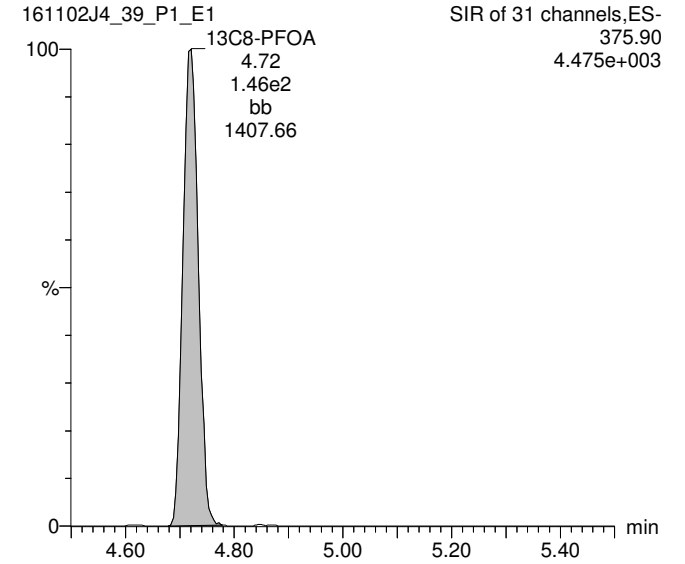
13C5-PFHxA



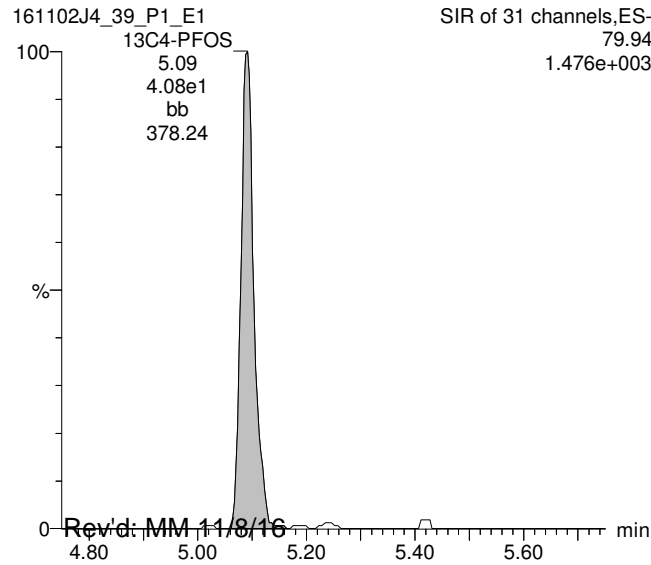
13C3-PFHxS



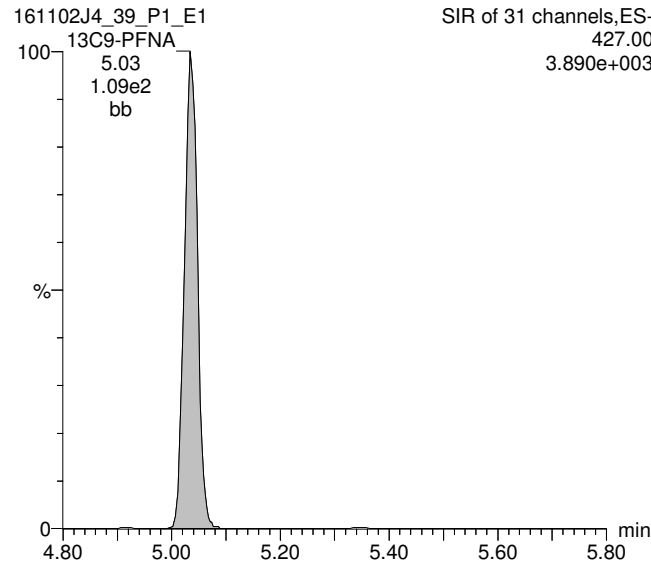
13C8-PFOA



13C4-PFOS



13C9-PFNA



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Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-14.qld

Last Altered: Friday, November 04, 2016 15:01:51 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:03:23 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-09 MW-BG13-1016 0.125, Description: MW-BG13-1016, Name: 161102G1_14, Date: 02-Nov-2016, Time: 13:38:05

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7		4.734e3		0.122			
2	5 PFHpA	363 > 318.9	1.710e2	1.500e4		0.122	3.85	0.997	
3	6 PFHxS	398.9 > 79.6	6.680e2	3.817e3		0.122	3.98	12.3	
4	8 PFOA	413 > 368.7	4.764e2	1.964e4		0.122	4.28	2.60	
5	9 PFOS	499 > 79.9	5.050e2	3.511e3		0.122	4.67	17.6	
6	10 PFNA	463 > 418.8		7.233e3		0.122			
7	15 13C3-PFBS	302.0 > 98.8	4.734e3	2.825e4	0.209	0.122	2.99	82.4	80.4
8	16 13C2-PFHxA	315 > 269.8	6.038e3	2.825e4	0.655	0.122	3.35	33.4	81.6
9	17 13C4-PFHpA	367.2 > 321.8	1.500e4	8.467e3	1.904	0.122	3.85	95.4	93.0
10	18 18O2-PFHxS	403 > 102.6	3.817e3	8.467e3	0.580	0.122	3.97	79.7	77.8
11	19 13C2-6:2 FTS	429.1 > 408.9	2.111e3	4.414e3	0.896	0.122	4.22	54.7	53.4
12	20 13C2-PFOA	414.9 > 369.7	1.964e4	1.098e4	2.326	0.122	4.27	78.8	76.9
13	21 13C8-PFOS	507.0 > 79.9	3.511e3	4.186e3	0.982	0.122	4.67	87.5	85.4
14	22 13C5-PFNA	468.2 > 422.9	7.233e3	8.952e3	1.038	0.122	4.61	79.8	77.9
15	27 13C5-PFHxA	318.0 > 272.9	2.825e4	2.825e4	1.000	0.122	3.35	102	100
16	28 13C3-PFHxS	401.9 > 79.9	8.467e3	8.467e3	1.000	0.122	3.98	102	100
17	29 13C8-PFOA	421.3 > 376	1.098e4	1.098e4	1.000	0.122	4.27	102	100
18	30 13C4-PFOS	503.0 > 79.9	4.186e3	4.186e3	1.000	0.122	4.67	102	100
19	31 13C9-PFNA	472.2 > 426.9	8.952e3	8.952e3	1.000	0.122	4.61	102	100
20	32 13C6-PFDA	519.1 > 473.7	8.087e3	8.087e3	1.000	0.122	4.90	102	100
21	33 Total PFBS	299 > 79.7		3.817e3		0.122			
22	34 Total PFHxS	398.9 > 79.6		3.817e3		0.122		12.3	
23	35 Total PFOA	413 > 368.7		1.964e4		0.122		2.60	
24	36 Total PFOS	499 > 79.9		3.511e3		0.122		28.7	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-14.qld

Last Altered: Friday, November 04, 2016 15:01:51 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:03:23 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-09 MW-BG13-1016 0.125, Description: MW-BG13-1016, Name: 161102G1_14, Date: 02-Nov-2016, Time: 13:38:05

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	299 > 79.7			4733.749	

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6	3.98	667.987	3817.150	12.3

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7	4.28	476.369	19636.455	2.6

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	9 PFOS	499 > 79.9	4.67	505.046	3511.269	17.6
2	36 Total PFOS	499 > 79.9	4.56	314.451	3511.269	11.1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-14.qld

Last Altered: Friday, November 04, 2016 15:01:51 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:03:23 Pacific Daylight Time

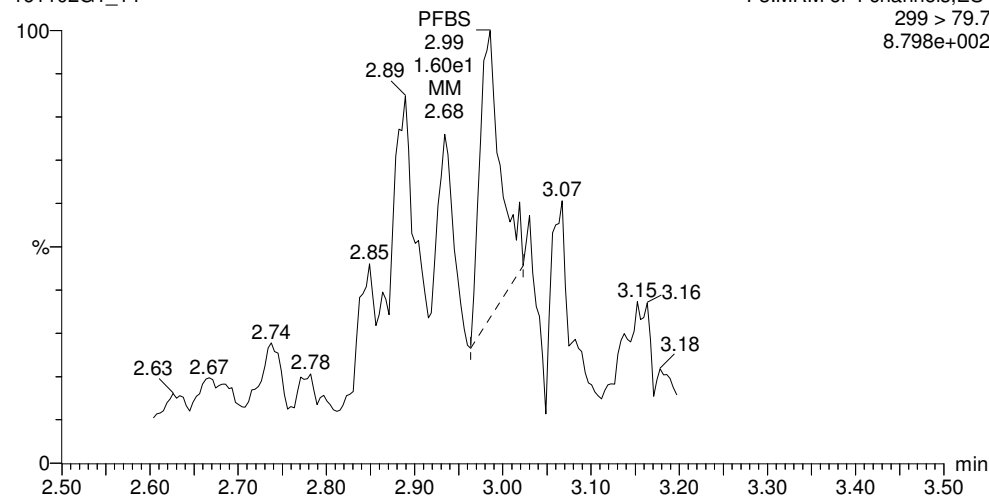
Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-09 MW-BG13-1016 0.125, Description: MW-BG13-1016, Name: 161102G1_14, Date: 02-Nov-2016, Time: 13:38:05, Instrument: , Lab: , User:

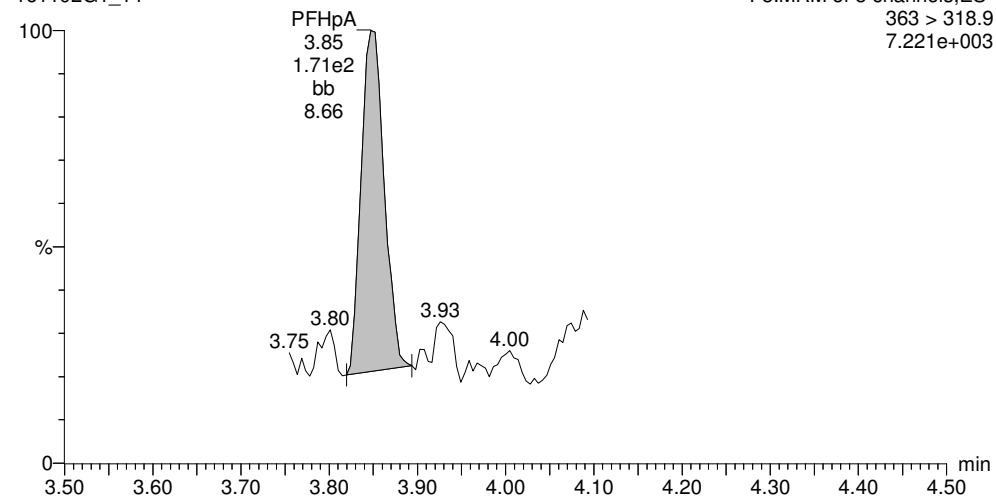
Total PFBS

161102G1_14



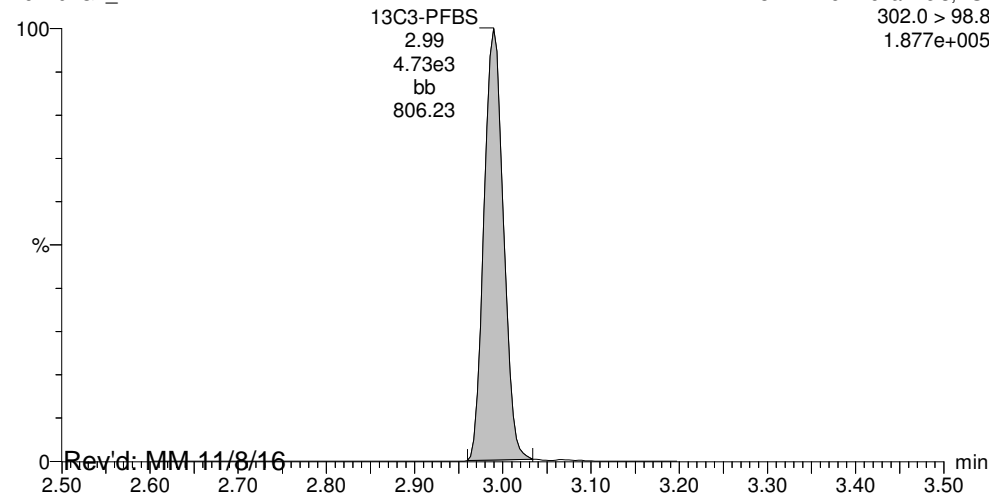
PFHpA

161102G1_14



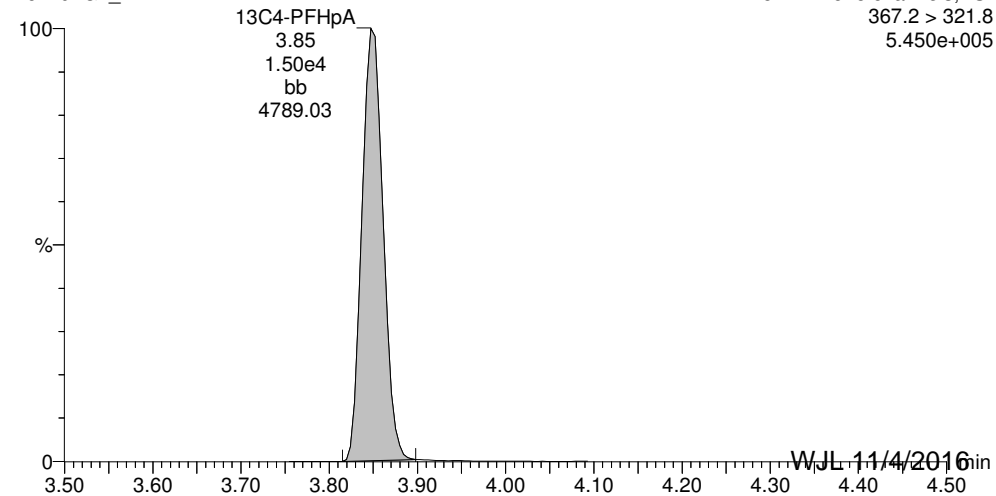
13C3-PFBS

161102G1_14



13C4-PFHpA

161102G1_14



Rev'd: MM 11/8/16

WJL 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-14.qld

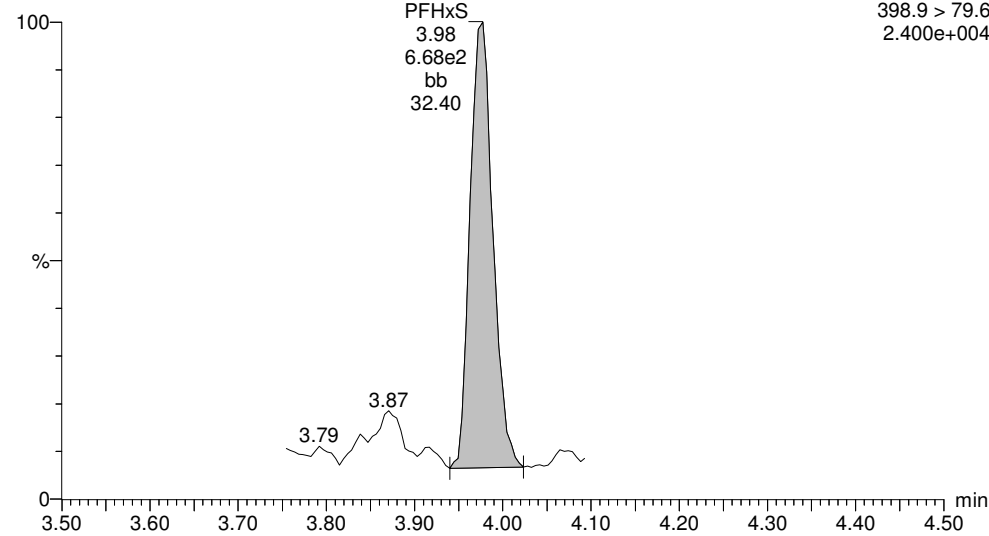
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Printed: Friday, November 04, 2016 15:03:23 Pacific Daylight Time

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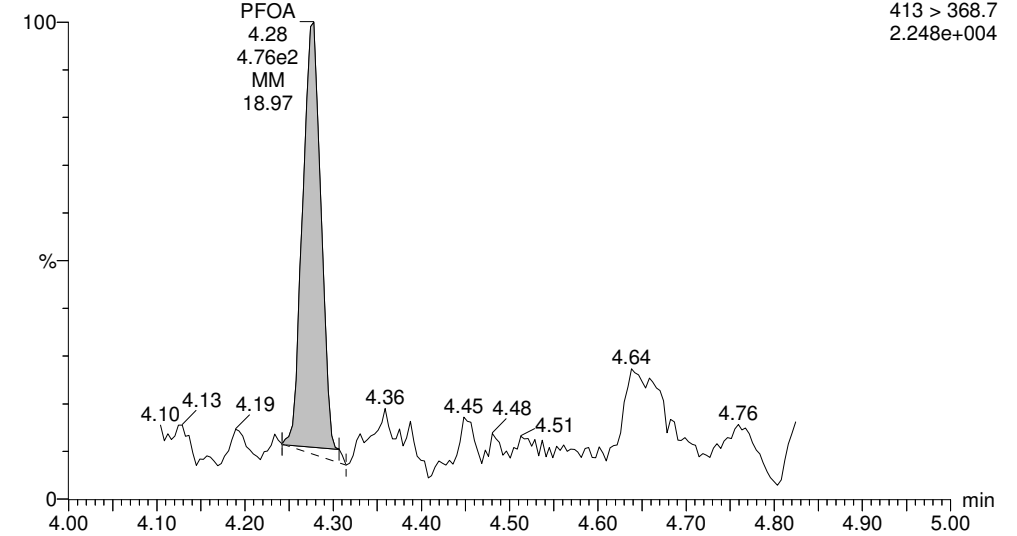
Total PFHxS

161102G1_14



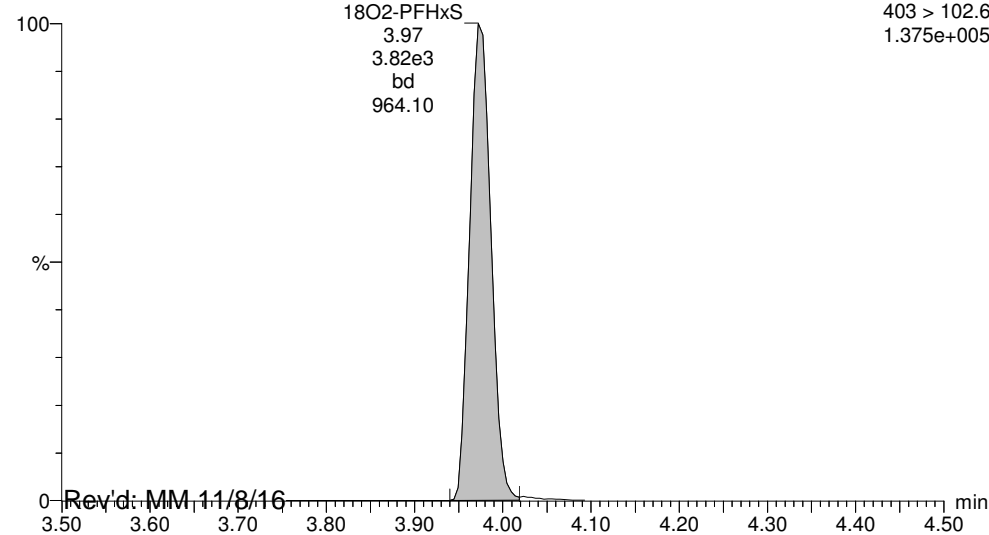
Total PFOA

161102G1_14



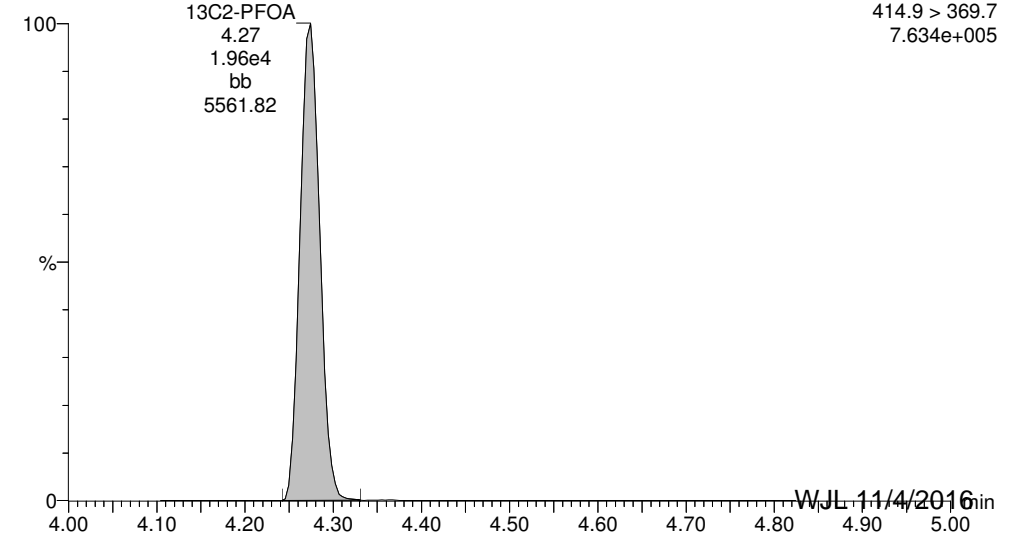
18O2-PFHxS

161102G1_14



13C2-PFOA

161102G1_14



Rev'd: MM, 11/8/16

WJL, 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-14.qld

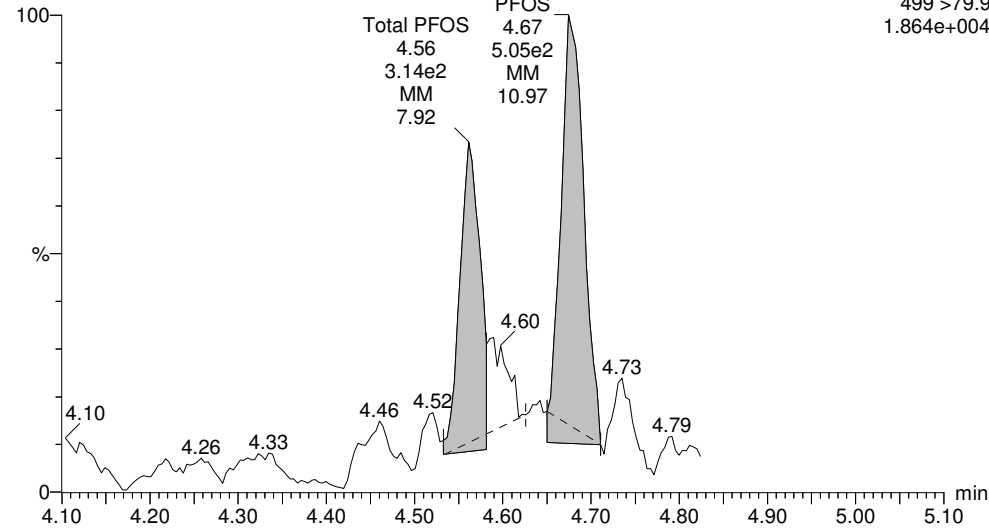
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Printed: Friday, November 04, 2016 15:03:23 Pacific Daylight Time

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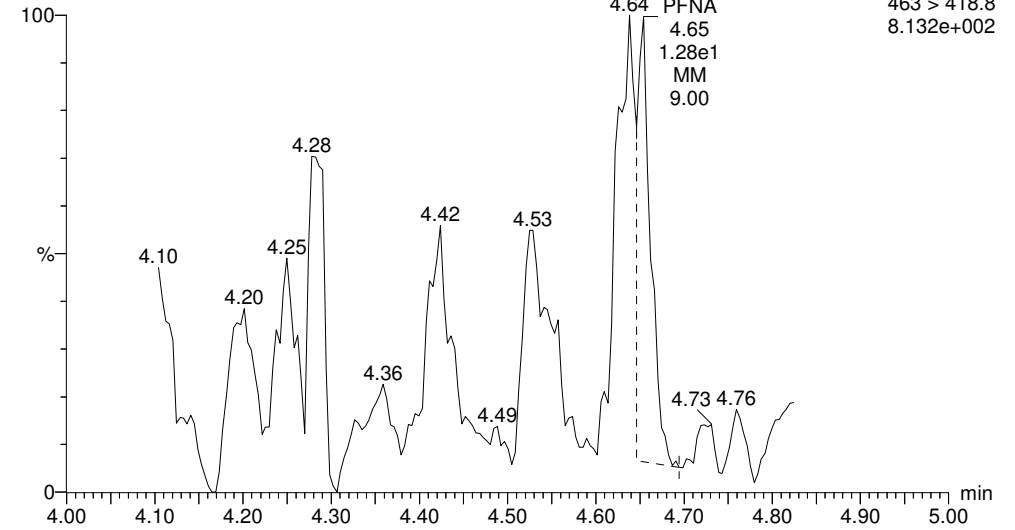
Total PFOS

161102G1_14



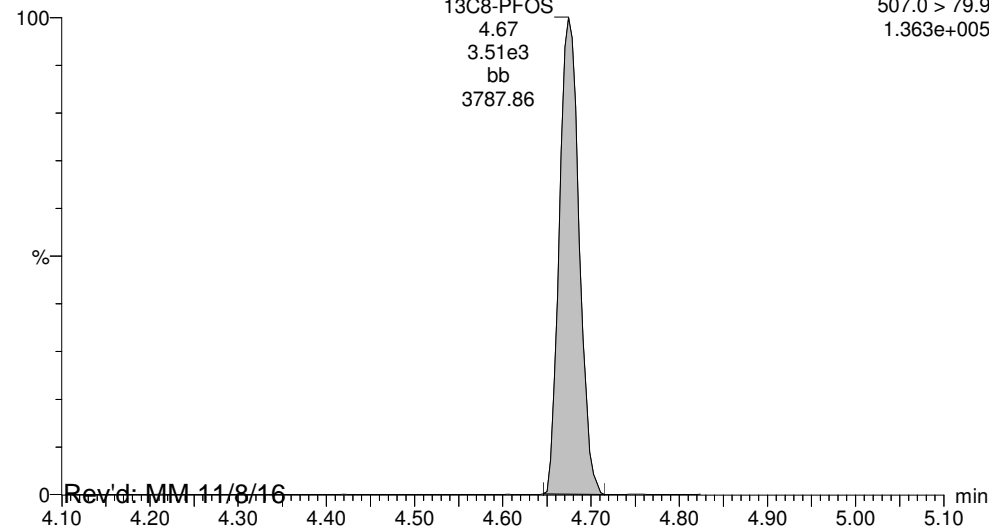
PFNA

161102G1_14



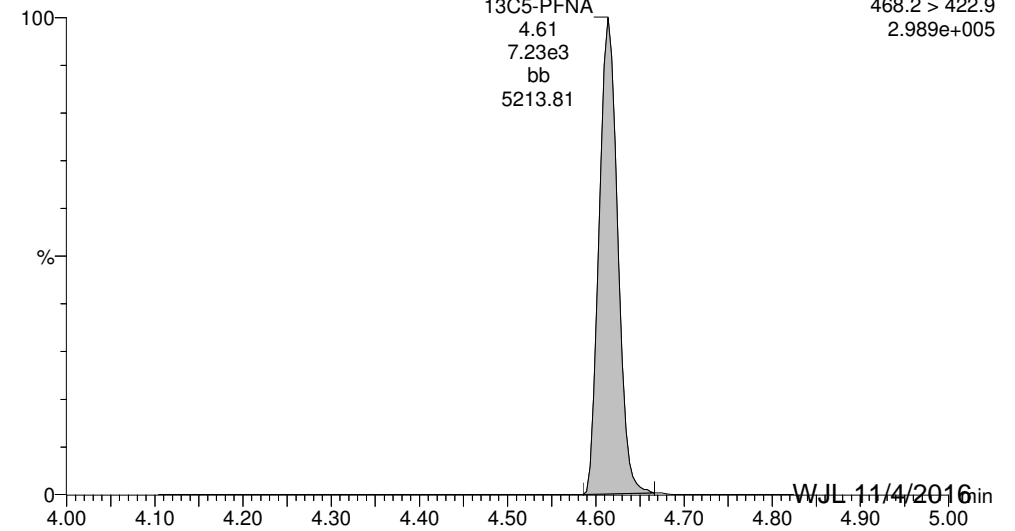
13C8-PFOS

161102G1_14



13C5-PFNA

161102G1_14



Rev'd: MM 11/8/16

WJL 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-14.qld

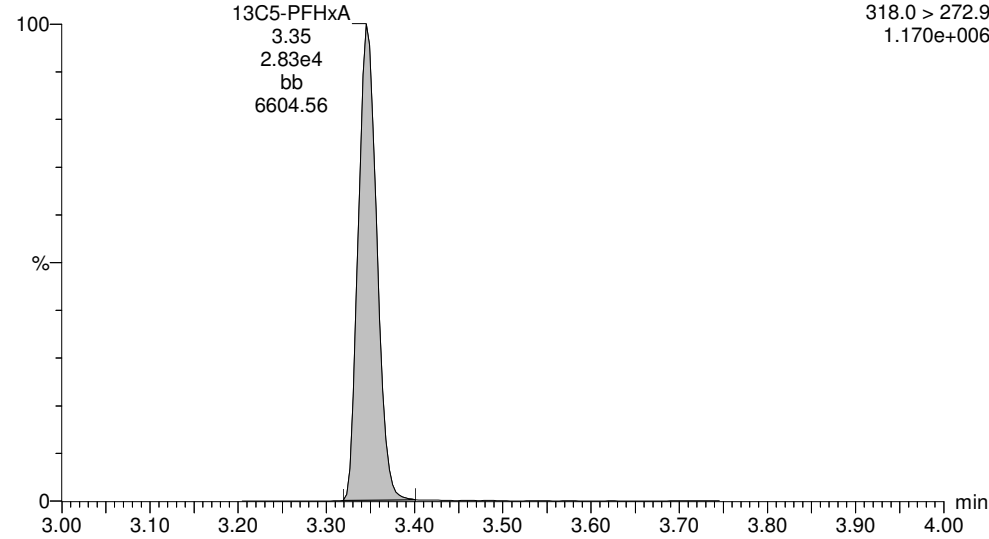
Last Altered: Friday, November 04, 2016 15:01:51 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:03:23 Pacific Daylight Time

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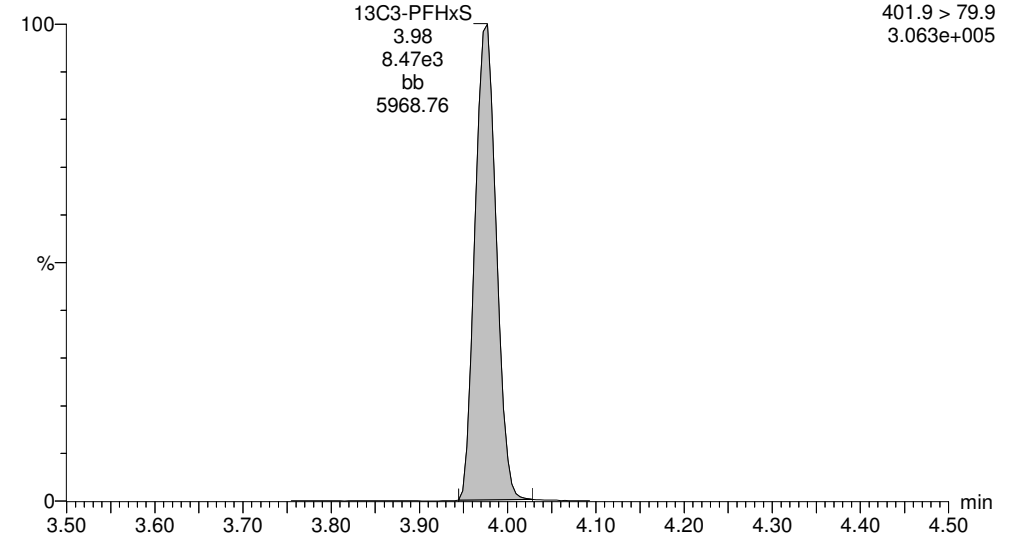
13C5-PFHxA

161102G1_14



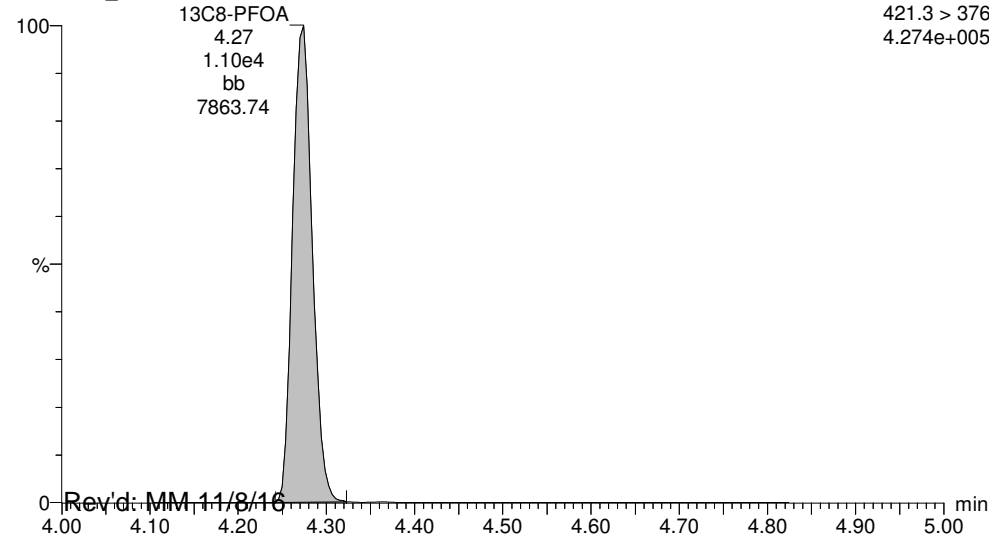
13C3-PFHxS

161102G1_14



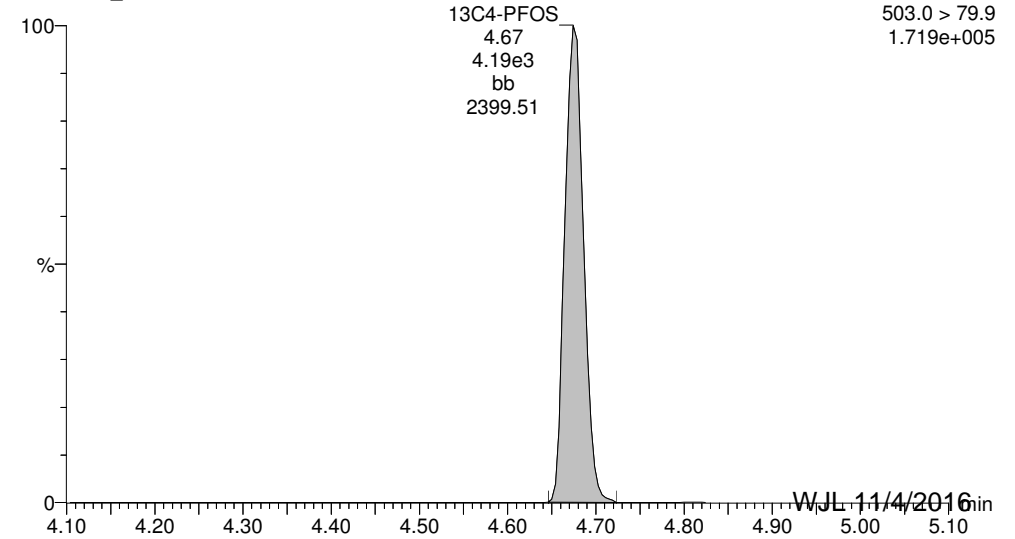
13C8-PFOA

161102G1_14



13C4-PFOS

161102G1_14



Rev'd: MM 11/8/16

WJL 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-14.qld

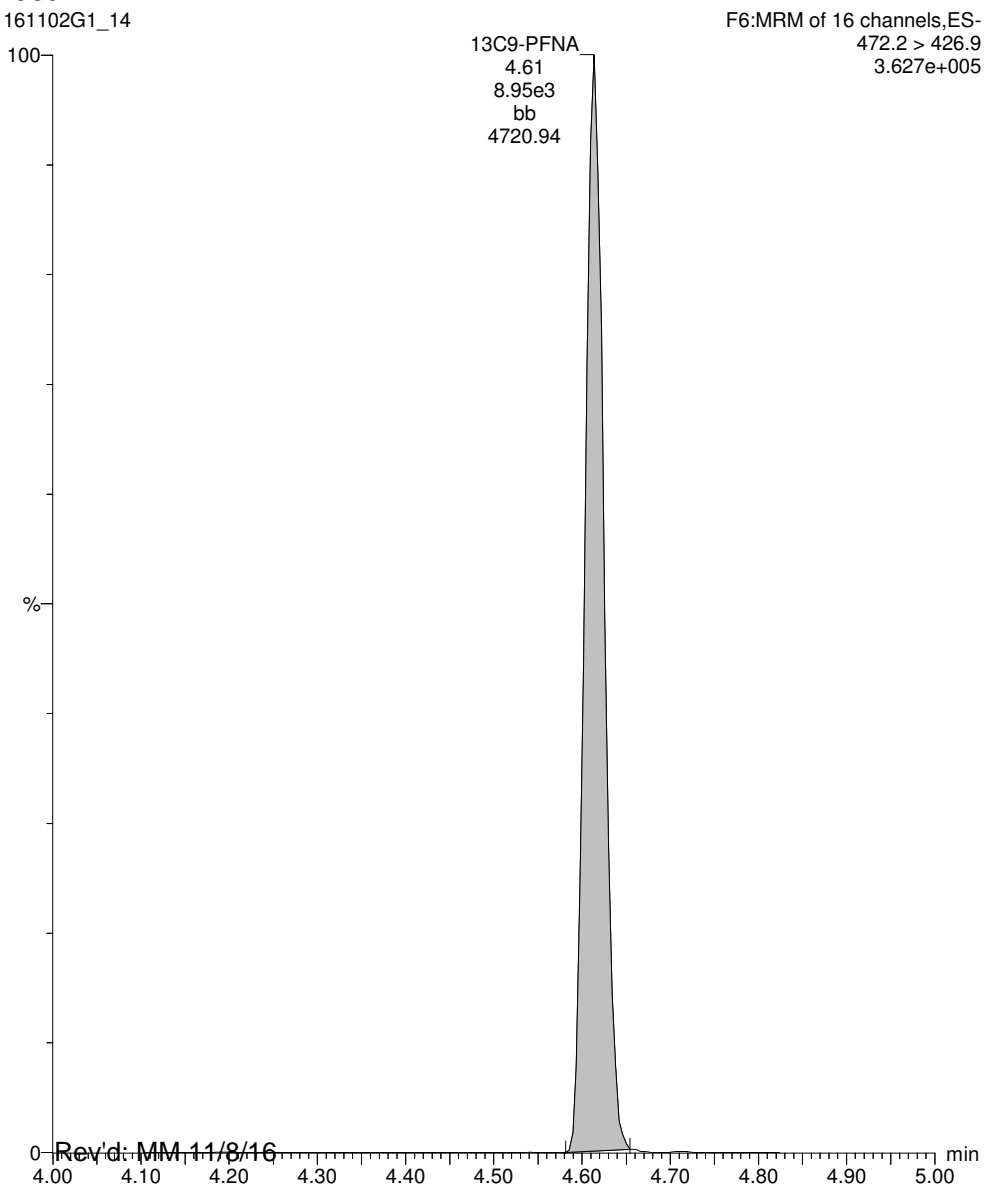
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ID: 1601370-09 MW-BG13-1016 0.125, Description: MW-BG13-1016, Name: 161102G1_14, Date: 02-Nov-2016, Time: 13:38:05, Instrument: , Lab: , User:

13C9-PFNA

161102G1_14



Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-15.qld

Last Altered: Friday, November 04, 2016 15:06:47 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:08:13 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-10 MW-BG13P-1016 0.125, Description: MW-BG13P-1016, Name: 161102G1_15, Date: 02-Nov-2016, Time: 13:50:42

#	Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7		3.119e3		0.127			
2	5 PFHpA	363 > 318.9		9.830e3		0.127			
3	6 PFHxS	398.9 > 79.6		2.734e3		0.127			
4	8 PFOA	413 > 368.7		1.360e4		0.127			
5	9 PFOS	499 > 79.9	3.376e2	2.542e3		0.127	4.68	15.6	
6	10 PFNA	463 > 418.8		4.654e3		0.127			
7	15 13C3-PFBS	302.0 > 98.8	3.119e3	2.575e4	0.209	0.127	2.99	57.3	58.1
8	16 13C2-PFHxA	315 > 269.8	3.721e3	2.575e4	0.655	0.127	3.35	21.7	55.1
9	17 13C4-PFHpA	367.2 > 321.8	9.830e3	8.878e3	1.904	0.127	3.85	57.3	58.1
10	18 18O2-PFHxS	403 > 102.6	2.734e3	8.878e3	0.580	0.127	3.98	52.4	53.1
11	19 13C2-6:2 FTS	429.1 > 408.9	1.225e3	3.784e3	0.896	0.127	4.23	35.6	36.1
12	20 13C2-PFOA	414.9 > 369.7	1.360e4	1.176e4	2.326	0.127	4.27	49.0	49.7
13	21 13C8-PFOS	507.0 > 79.9	2.542e3	4.137e3	0.982	0.127	4.68	61.7	62.5
14	22 13C5-PFNA	468.2 > 422.9	4.654e3	8.819e3	1.038	0.127	4.62	50.1	50.9
15	27 13C5-PFHxA	318.0 > 272.9	2.575e4	2.575e4	1.000	0.127	3.35	98.6	100
16	28 13C3-PFHxS	401.9 > 79.9	8.878e3	8.878e3	1.000	0.127	3.98	98.6	100
17	29 13C8-PFOA	421.3 > 376	1.176e4	1.176e4	1.000	0.127	4.27	98.6	100
18	30 13C4-PFOS	503.0 > 79.9	4.137e3	4.137e3	1.000	0.127	4.68	98.6	100
19	31 13C9-PFNA	472.2 > 426.9	8.819e3	8.819e3	1.000	0.127	4.62	98.6	100
20	32 13C6-PFDA	519.1 > 473.7	8.850e3	8.850e3	1.000	0.127	4.90	98.6	100
21	33 Total PFBS	299 > 79.7		2.734e3		0.127			
22	34 Total PFHxS	398.9 > 79.6		2.734e3		0.127			
23	35 Total PFOA	413 > 368.7		1.360e4		0.127			
24	36 Total PFOS	499 > 79.9		2.542e3		0.127		15.6	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-15.qld

Last Altered: Friday, November 04, 2016 15:06:47 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:08:13 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-10 MW-BG13P-1016 0.125, Description: MW-BG13P-1016, Name: 161102G1_15, Date: 02-Nov-2016, Time: 13:50:42

Total PFBS

#	Name	Trace	RT	Area	IS Area	Conc.
1						

Total PFHxS

#	Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	398.9 > 79.6			2734.421	

Total PFOA

#	Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7			13604.250	

Total PFOS

#	Name	Trace	RT	Area	IS Area	Conc.
1	9 PFOS	499 > 79.9	4.68	337.650	2542.078	15.6

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-15.qld

Last Altered: Friday, November 04, 2016 15:06:47 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:08:13 Pacific Daylight Time

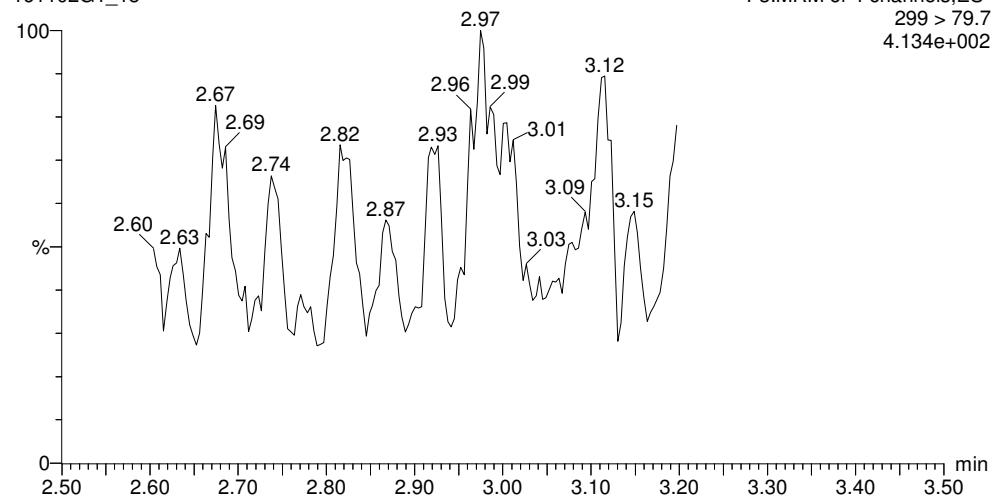
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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

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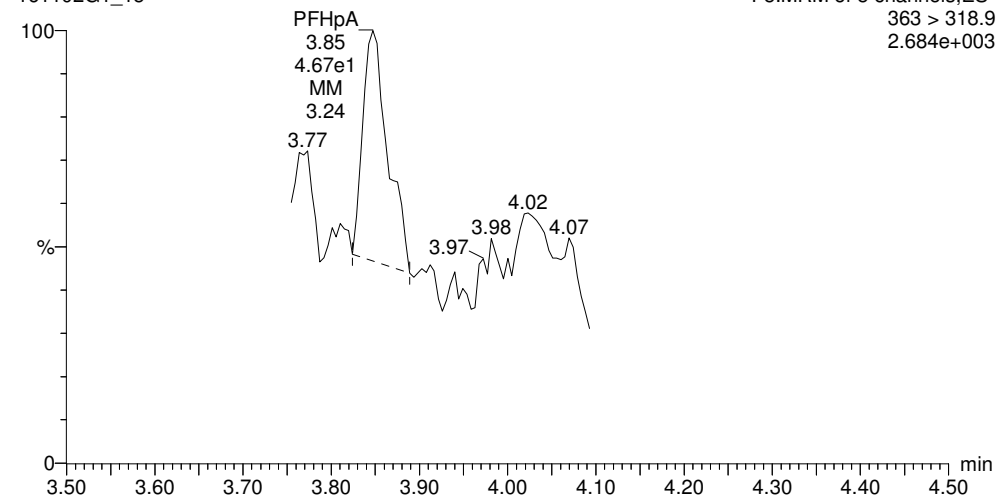
Total PFBS

161102G1_15



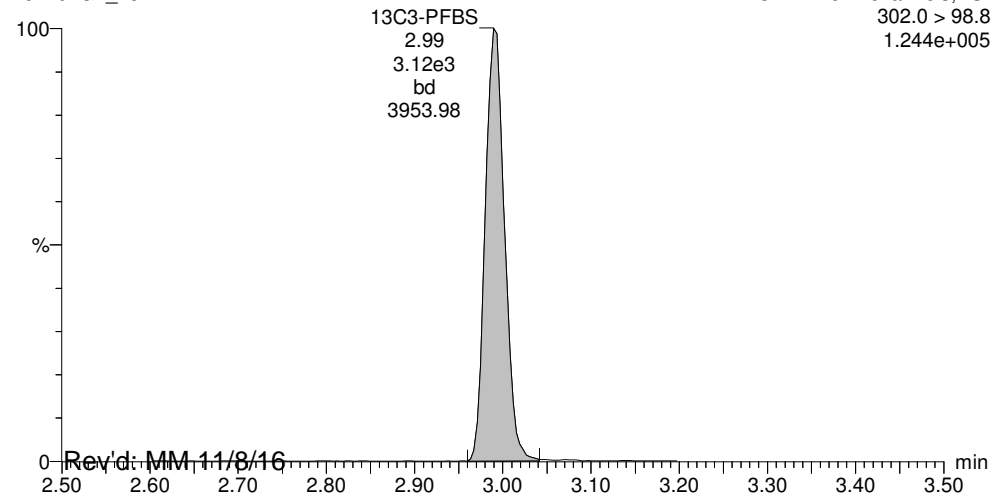
PFHpA

161102G1_15



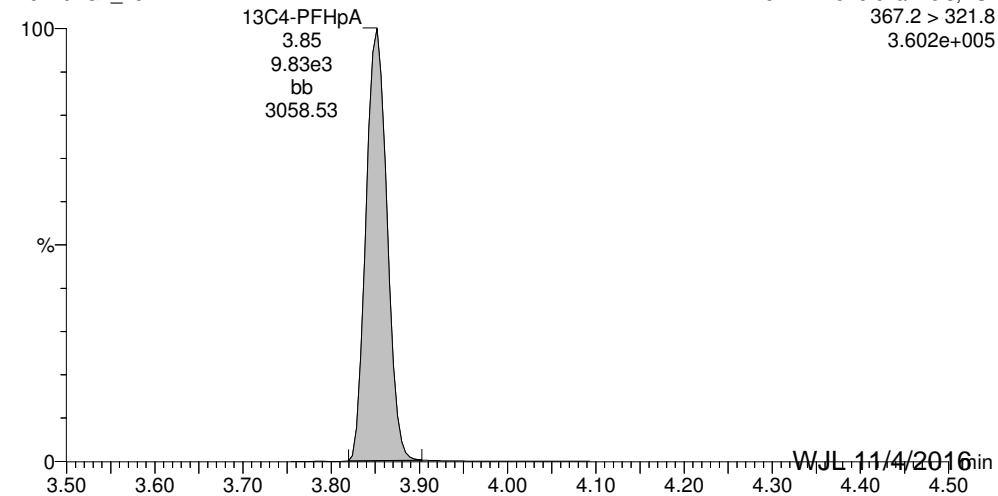
13C3-PFBS

161102G1_15



13C4-PFHpA

161102G1_15



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Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-15.qld

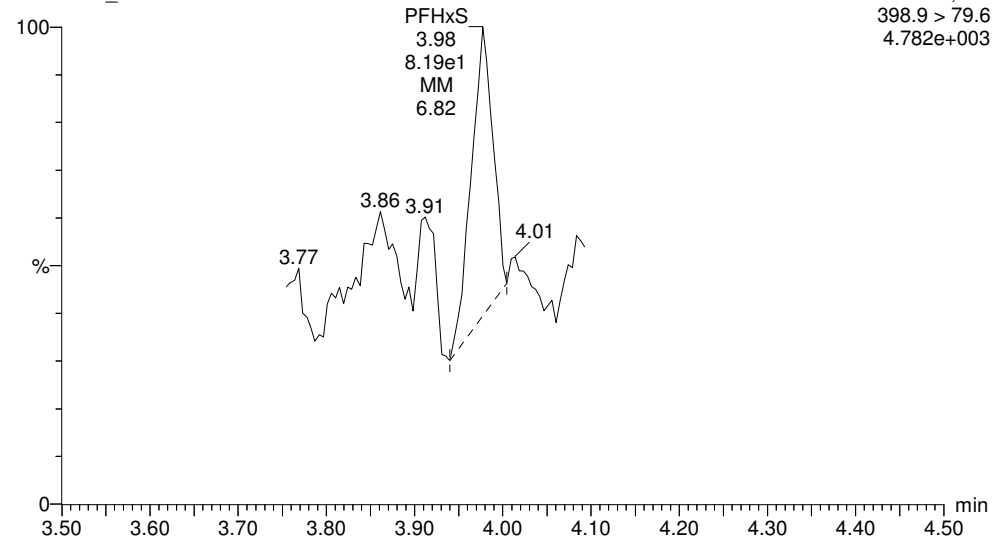
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Printed: Friday, November 04, 2016 15:08:13 Pacific Daylight Time

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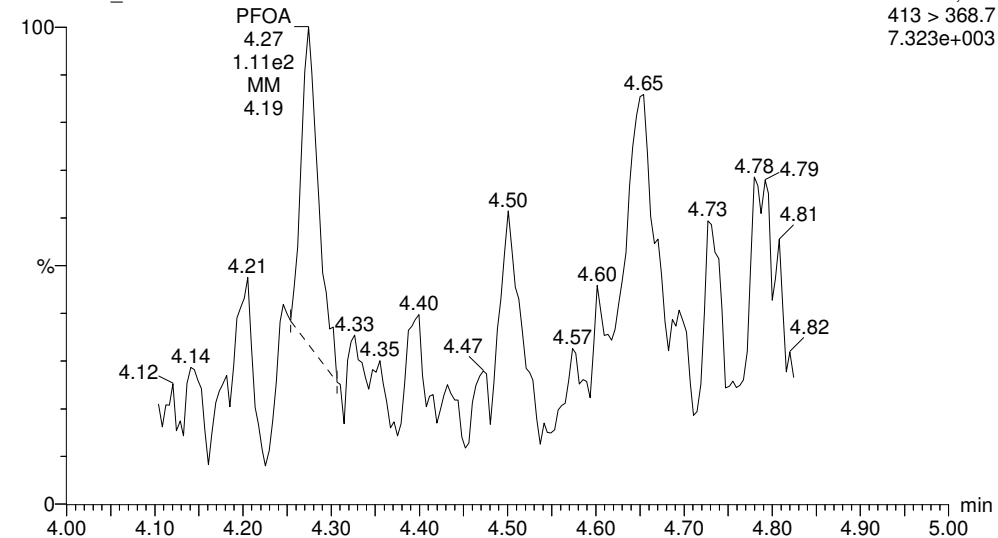
Total PFHxS

161102G1_15



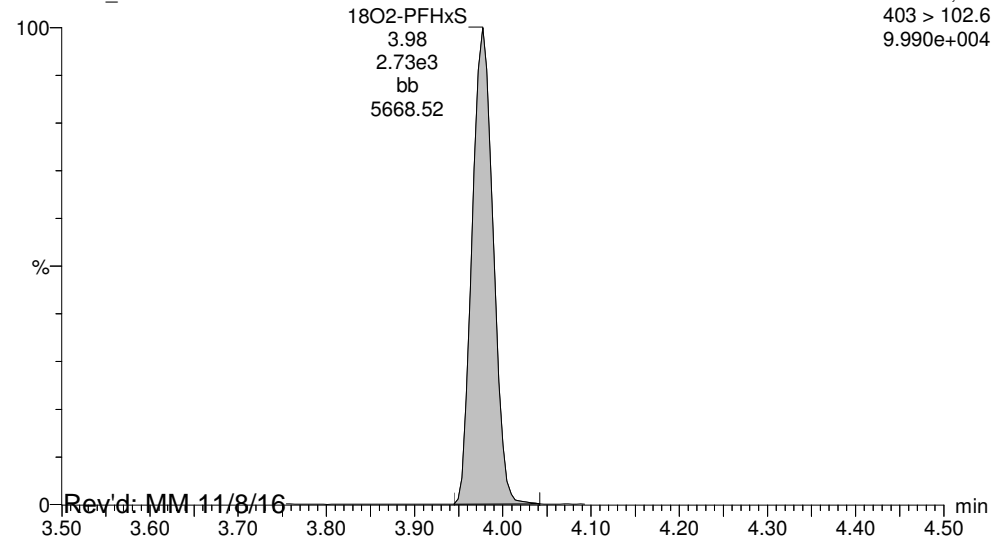
Total PFOA

161102G1_15



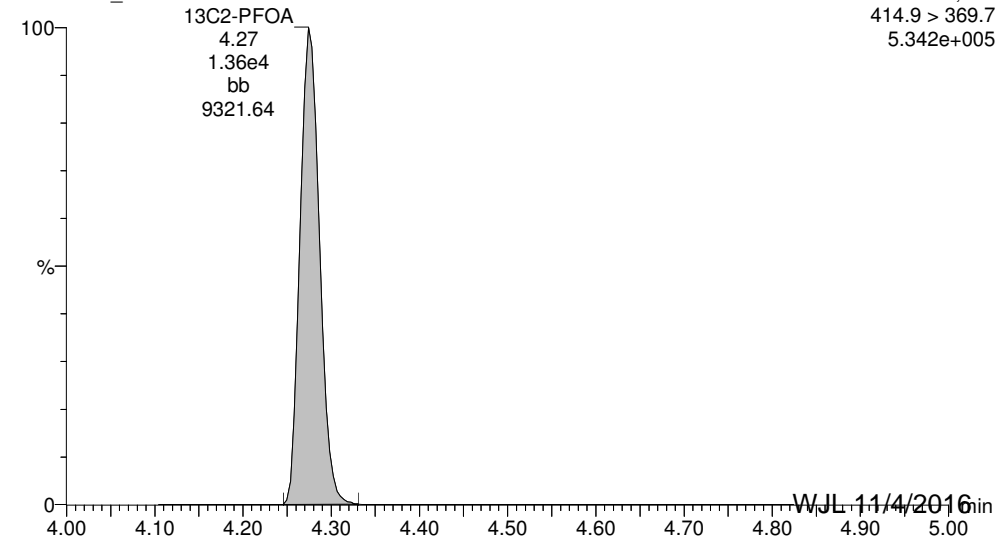
18O2-PFHxS

161102G1_15



13C2-PFOA

161102G1_15



Rev'd: MM, 11/8/16

WJL, 11/4/2016

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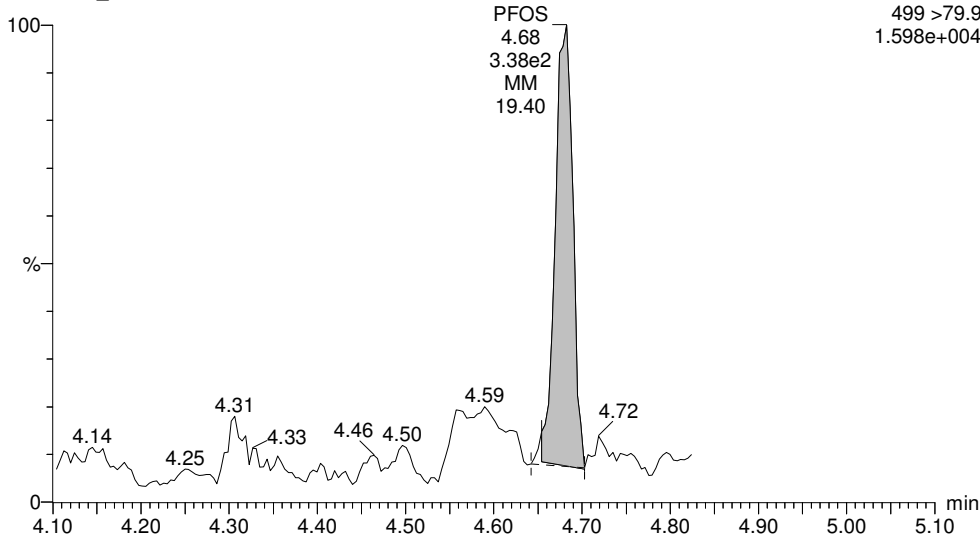
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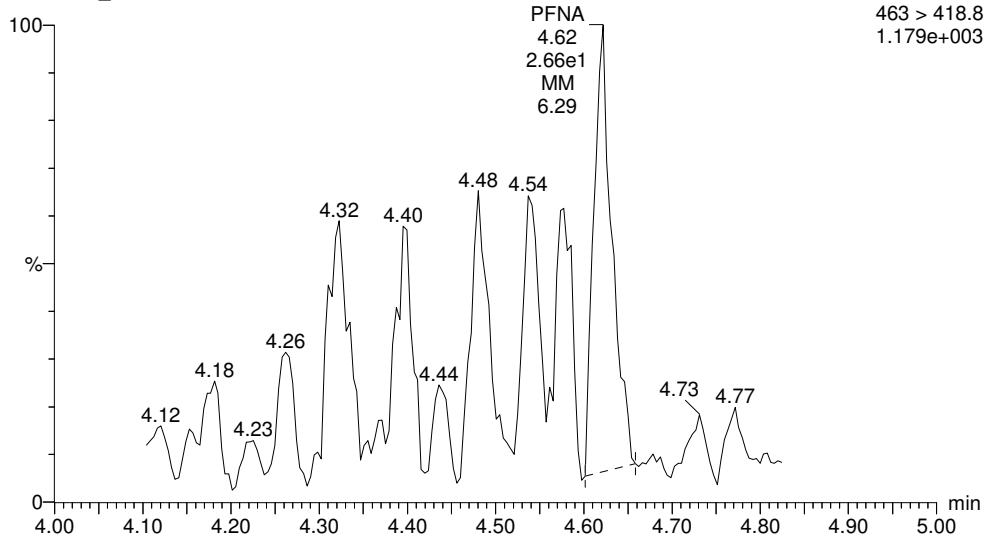
Total PFOS

161102G1_15



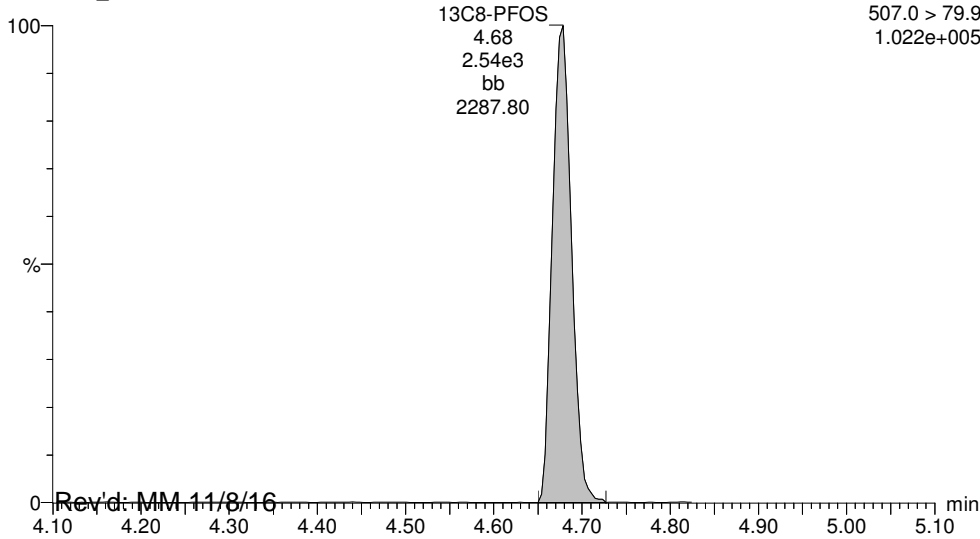
PFNA

161102G1_15



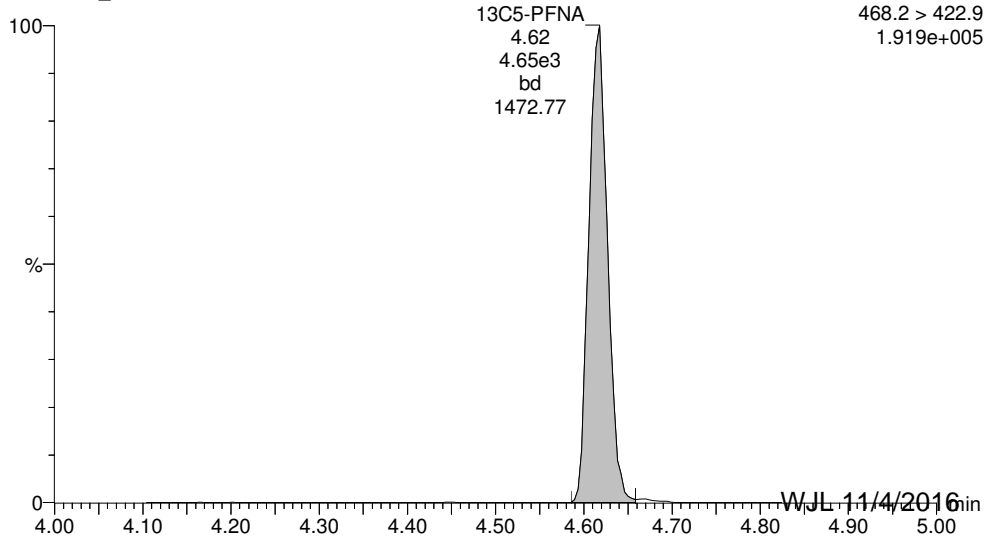
13C8-PFOS

161102G1_15



13C5-PFNA

161102G1_15



Rev'd: MM 11/8/16

WJL 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-15.qld

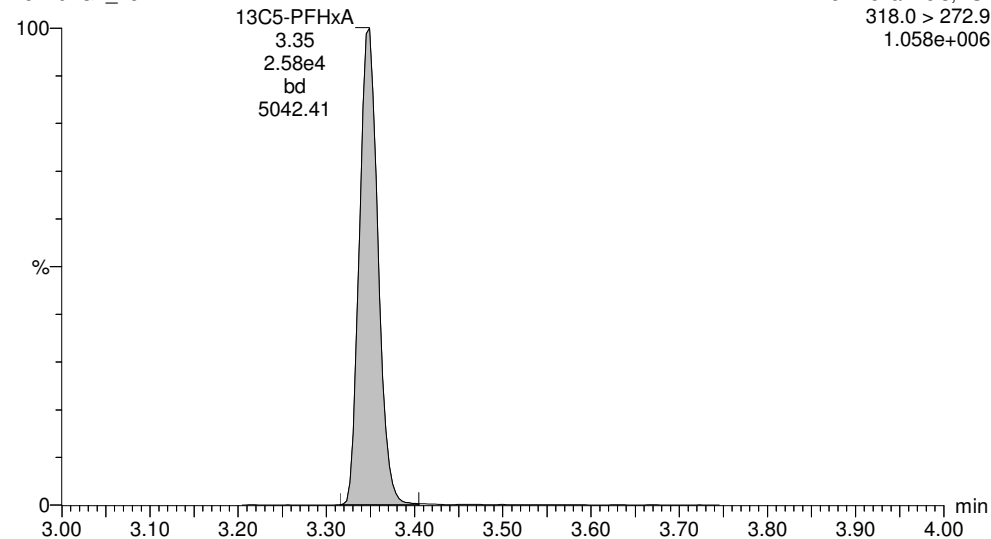
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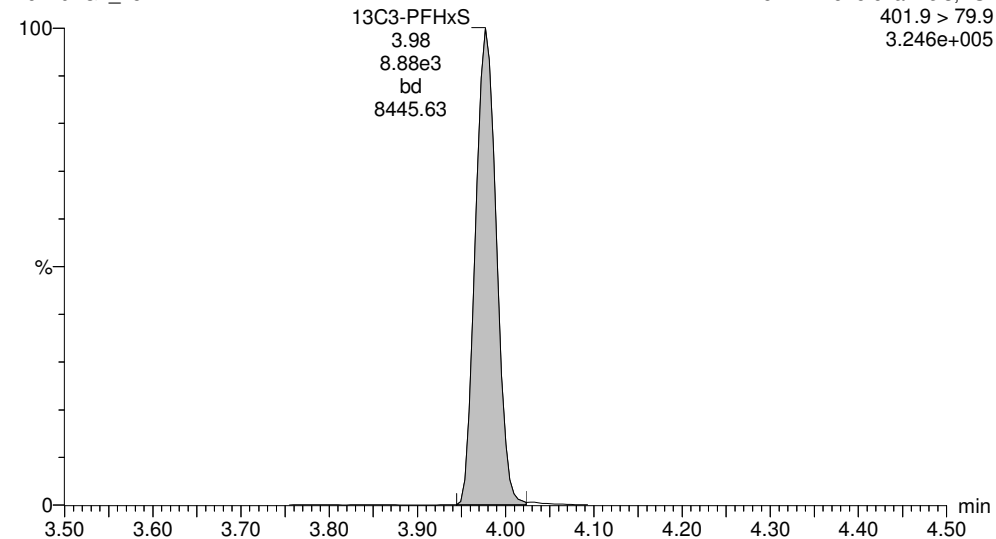
13C5-PFHxA

161102G1_15



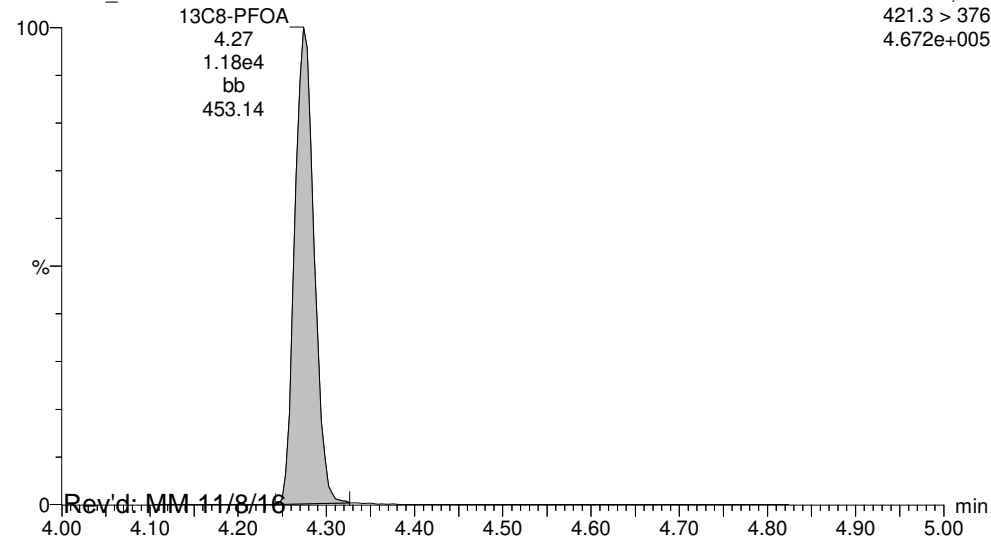
13C3-PFHxS

161102G1_15



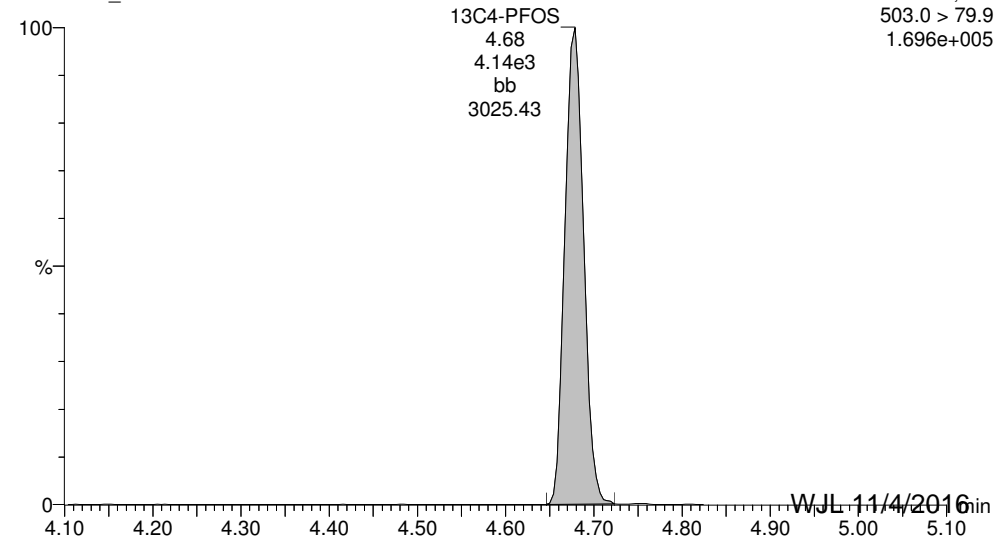
13C8-PFOA

161102G1_15



13C4-PFOS

161102G1_15



Rev'd: MM 11/8/16

WJL 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-15.qld

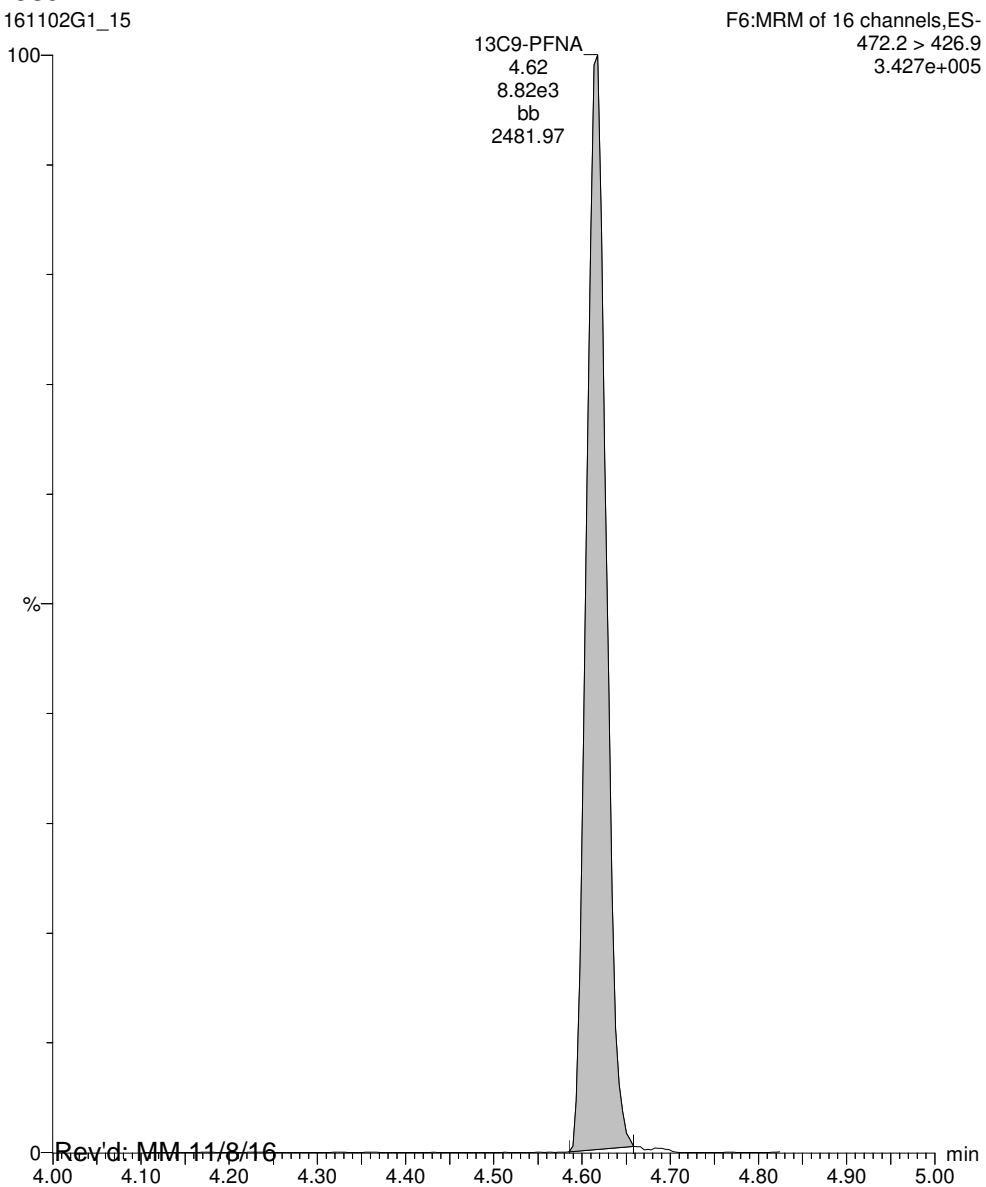
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13C9-PFNA

161102G1_15



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Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-16.qld

Last Altered: Friday, November 04, 2016 15:12:16 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:13:18 Pacific Daylight Time

Method: U:\G1.pro\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-11 MW-BG12-1016 0.125, Description: MW-BG12-1016, Name: 161102G1_16, Date: 02-Nov-2016, Time: 14:03:19

	# Name	Trace	Peak Area	IS Resp	RRF Mean	wt/vol	RT	Conc.	%Rec
1	3 PFBS	299 > 79.7	4.529e2	5.041e3		0.126	2.99	6.95	
2	5 PFHpA	363 > 318.9	5.883e2	1.622e4		0.126	3.85	2.70	
3	6 PFHxS	398.9 > 79.6	4.737e3	4.759e3		0.126	3.98	67.0	
4	8 PFOA	413 > 368.7	2.053e3	2.539e4		0.126	4.27	8.67	
5	9 PFOS	499 > 79.9	1.372e3	5.638e3		0.126	4.67	28.4	
6	10 PFNA	463 > 418.8	1.973e2	9.651e3		0.126	4.61	1.37	
7	15 13C3-PFBS	302.0 > 98.8	5.041e3	3.003e4	0.209	0.126	2.99	79.7	80.5
8	16 13C2-PFHxA	315 > 269.8	5.708e3	3.003e4	0.655	0.126	3.35	28.7	72.5
9	17 13C4-PFHpA	367.2 > 321.8	1.622e4	1.226e4	1.904	0.126	3.85	68.8	69.5
10	18 18O2-PFHxS	403 > 102.6	4.759e3	1.226e4	0.580	0.126	3.97	66.3	67.0
11	19 13C2-6:2 FTS	429.1 > 408.9	3.024e3	5.259e3	0.896	0.126	4.22	63.5	64.2
12	20 13C2-PFOA	414.9 > 369.7	2.539e4	1.735e4	2.326	0.126	4.27	62.3	62.9
13	21 13C8-PFOS	507.0 > 79.9	5.638e3	7.753e3	0.982	0.126	4.67	73.3	74.0
14	22 13C5-PFNA	468.2 > 422.9	9.651e3	1.404e4	1.038	0.126	4.61	65.6	66.3
15	27 13C5-PFHxA	318.0 > 272.9	3.003e4	3.003e4	1.000	0.126	3.35	99.0	100
16	28 13C3-PFHxS	401.9 > 79.9	1.226e4	1.226e4	1.000	0.126	3.98	99.0	100
17	29 13C8-PFOA	421.3 > 376	1.735e4	1.735e4	1.000	0.126	4.27	99.0	100
18	30 13C4-PFOS	503.0 > 79.9	7.753e3	7.753e3	1.000	0.126	4.68	99.0	100
19	31 13C9-PFNA	472.2 > 426.9	1.404e4	1.404e4	1.000	0.126	4.61	99.0	100
20	32 13C6-PFDA	519.1 > 473.7	1.360e4	1.360e4	1.000	0.126	4.90	99.0	100
21	33 Total PFBS	299 > 79.7		4.759e3		0.126		6.95	
22	34 Total PFHxS	398.9 > 79.6		4.759e3		0.126		79.7	
23	35 Total PFOA	413 > 368.7		2.539e4		0.126		10.2	
24	36 Total PFOS	499 > 79.9		5.638e3		0.126		46.5	

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-16.qld

Last Altered: Friday, November 04, 2016 15:12:16 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:13:18 Pacific Daylight Time

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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-11 MW-BG12-1016 0.125, Description: MW-BG12-1016, Name: 161102G1_16, Date: 02-Nov-2016, Time: 14:03:19

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	299 > 79.7	2.99	452.889	5041.281	6.9

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	34 Total PFHxS	398.9 > 79.6	3.87	645.294	4759.395	9.2
2	34 Total PFHxS	398.9 > 79.6	3.84	240.975	4759.395	3.5
3	6 PFHxS	398.9 > 79.6	3.98	4736.994	4759.395	67.0

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	413 > 368.7	4.27	2053.334	25386.869	8.7
2	35 Total PFOA	413 > 368.7	4.17	384.903	25386.869	1.5

Total PFOS

	# Name	Trace	RT	Area	IS Area	Conc.
1	9 PFOS	499 > 79.9	4.67	1371.859	5638.344	28.4
2	36 Total PFOS	499 > 79.9	4.59	411.428	5638.344	8.8
3	36 Total PFOS	499 > 79.9	4.56	434.701	5638.344	9.3

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-16.qld

Last Altered: Friday, November 04, 2016 15:12:16 Pacific Daylight Time

Printed: Friday, November 04, 2016 15:13:18 Pacific Daylight Time

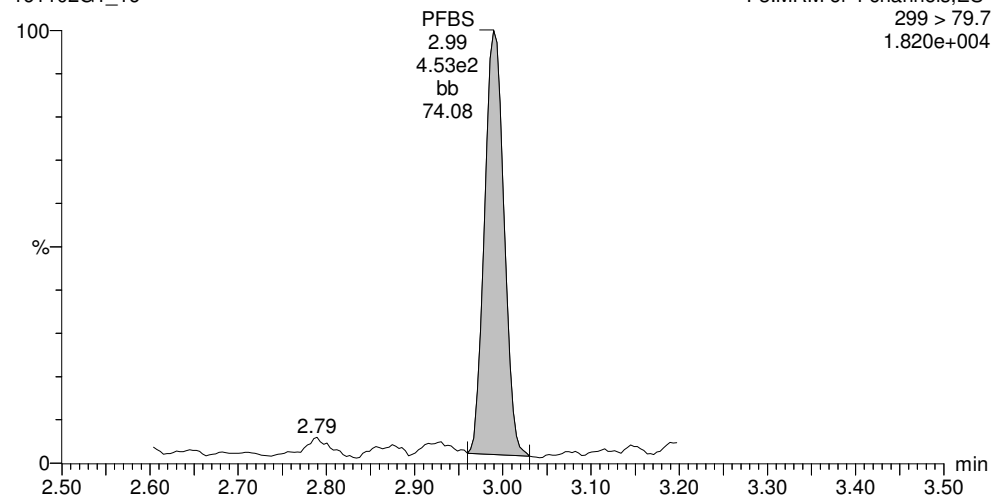
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Calibration: U:\G1.pro\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

ID: 1601370-11 MW-BG12-1016 0.125, Description: MW-BG12-1016, Name: 161102G1_16, Date: 02-Nov-2016, Time: 14:03:19, Instrument: , Lab: , User:

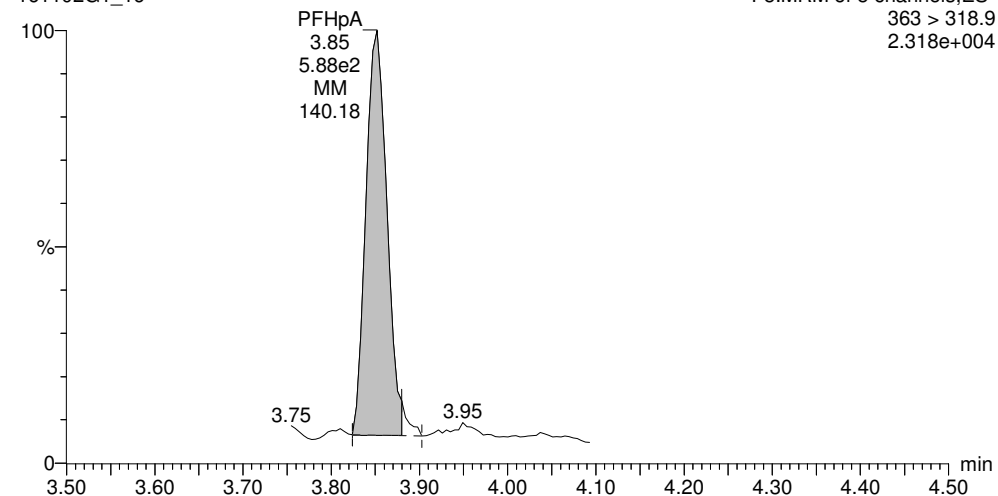
Total PFBS

161102G1_16



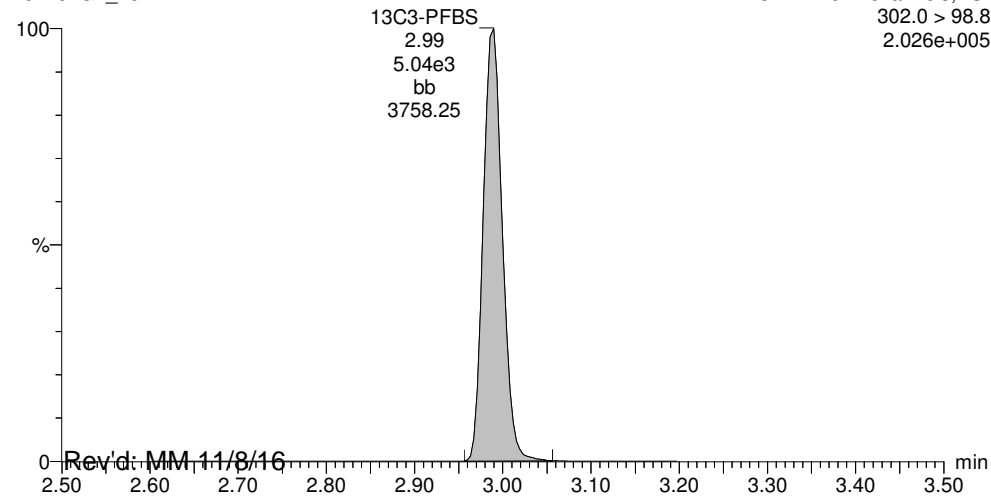
PFHpA

161102G1_16



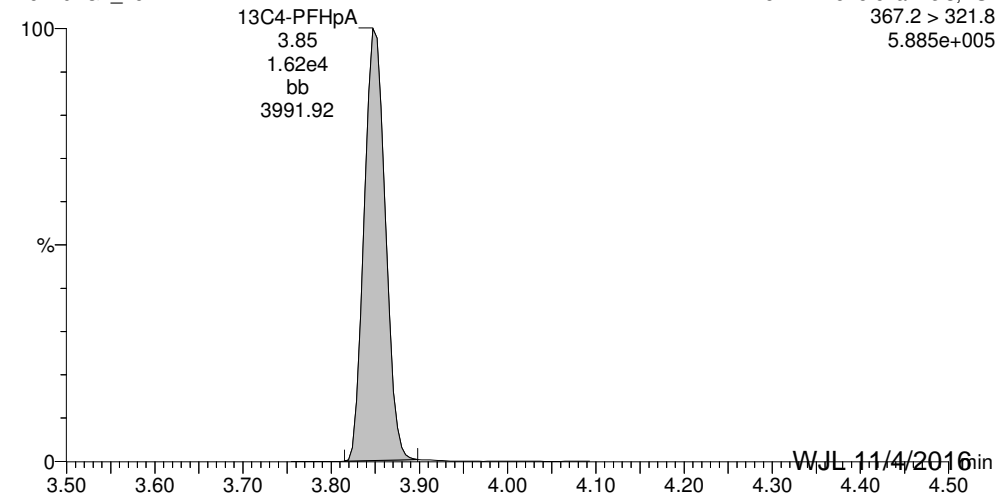
13C3-PFBS

161102G1_16



13C4-PFHpA

161102G1_16



Rev'd: MM, 11/8/16

WJL, 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-16.qld

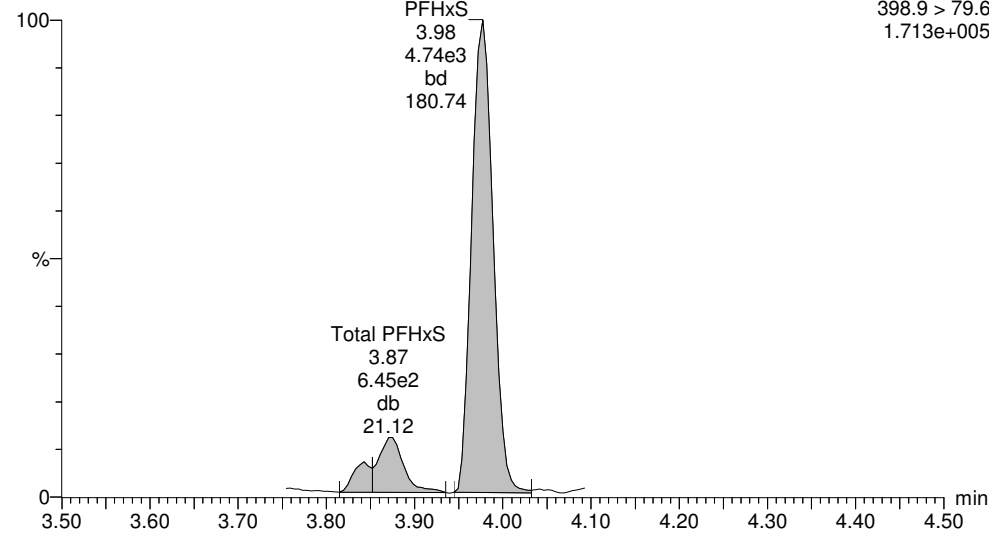
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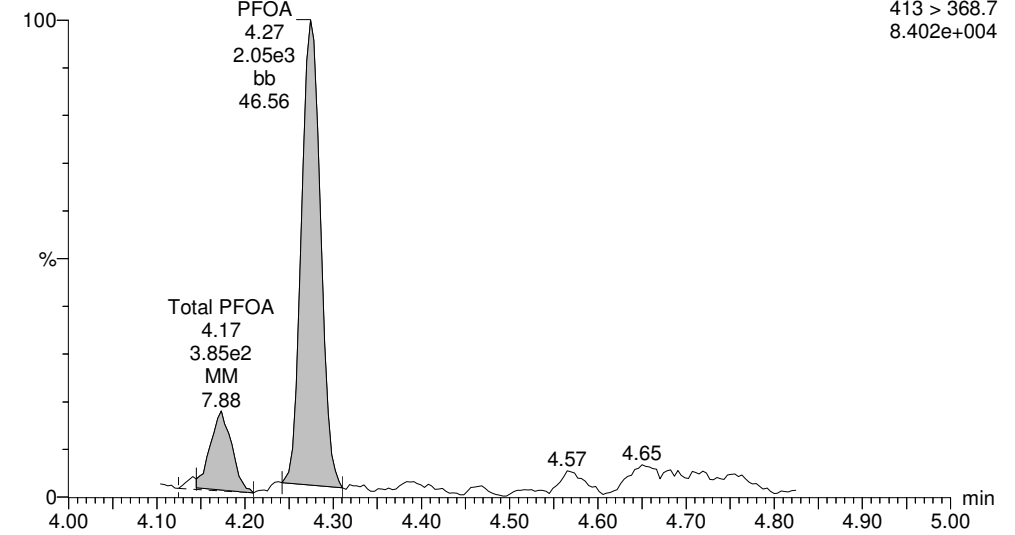
Total PFHxS

161102G1_16



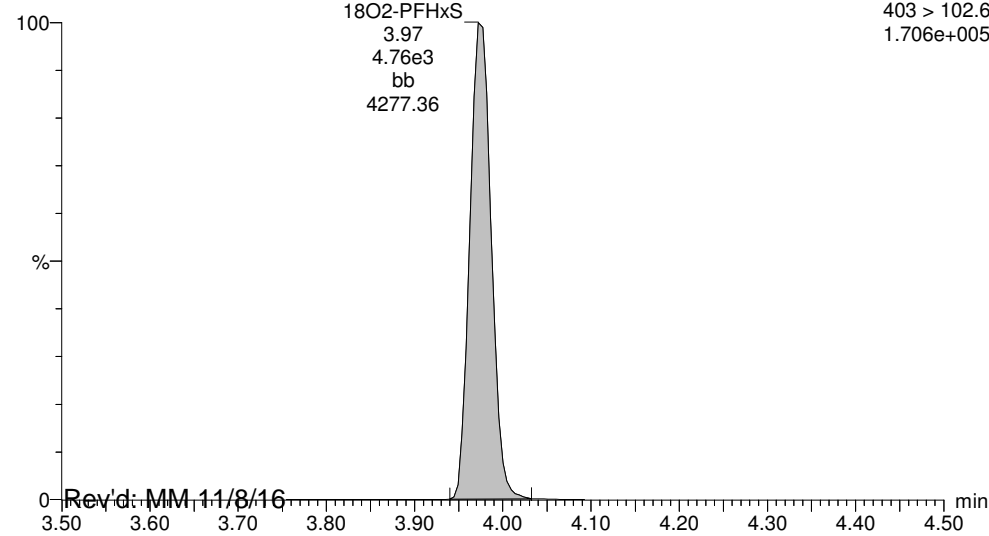
Total PFOA

161102G1_16



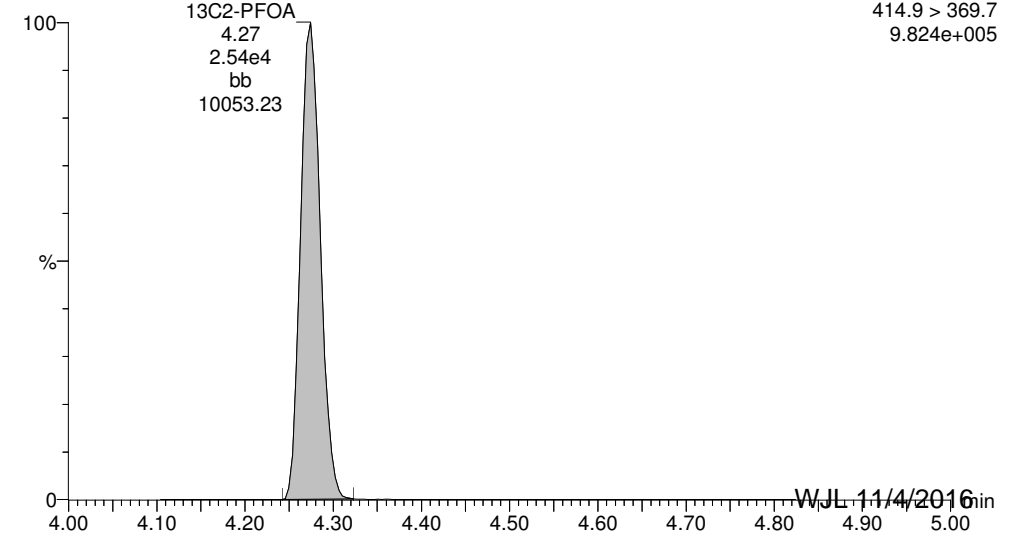
18O2-PFHxS

161102G1_16



13C2-PFOA

161102G1_16



Rev'd: MM, 11/8/16

WJL, 11/4/2016

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-16.qld

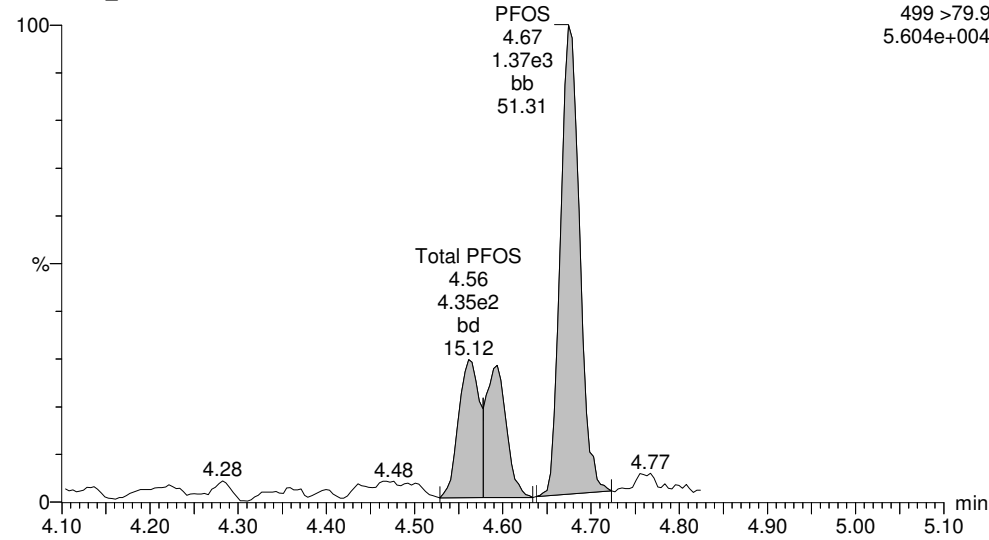
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Printed: Friday, November 04, 2016 15:13:18 Pacific Daylight Time

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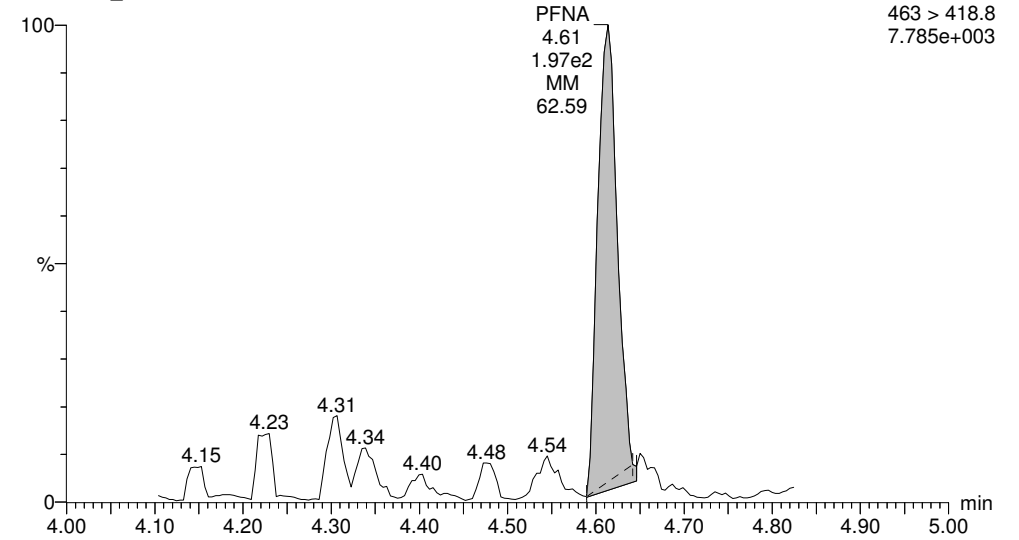
Total PFOS

161102G1_16



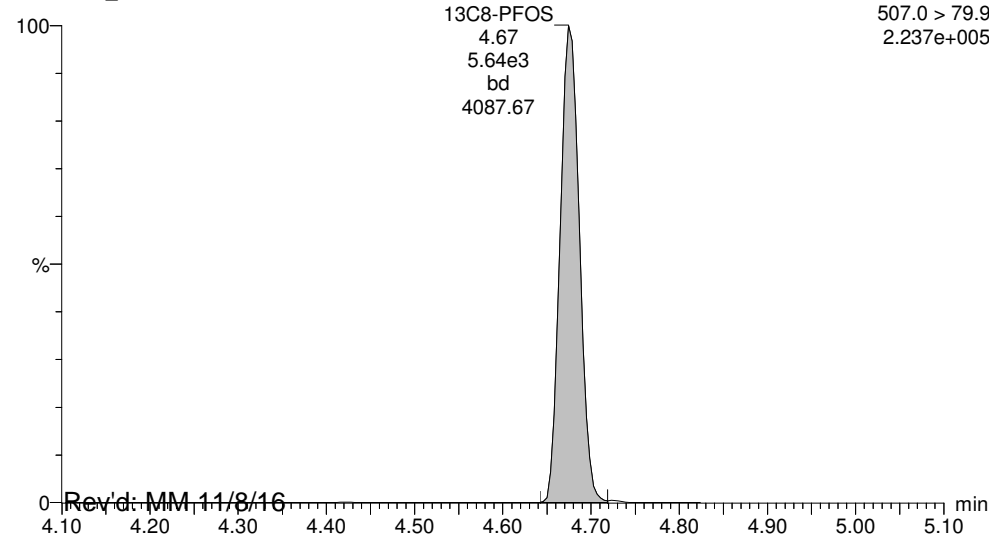
PFNA

161102G1_16



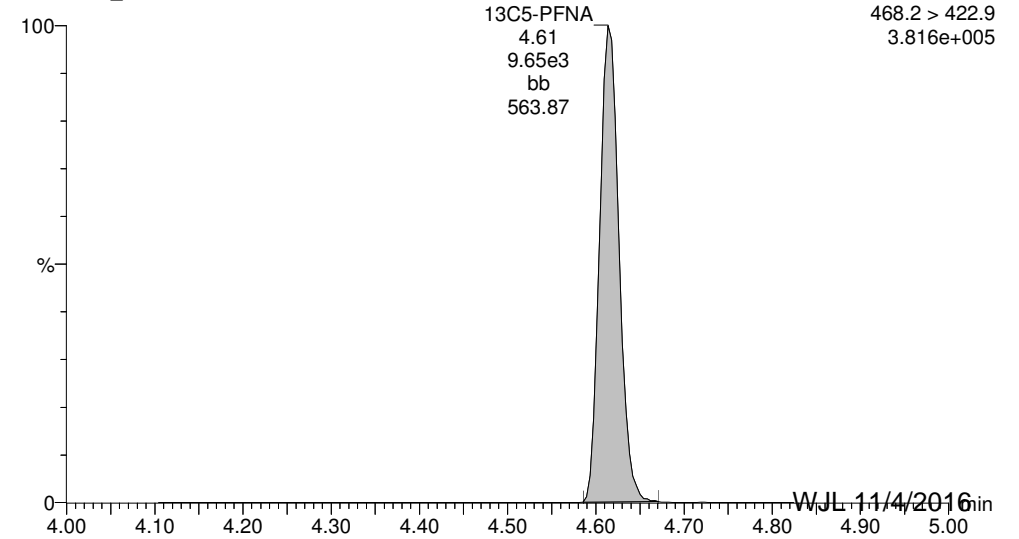
13C8-PFOS

161102G1_16



13C5-PFNA

161102G1_16



Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-16.qld

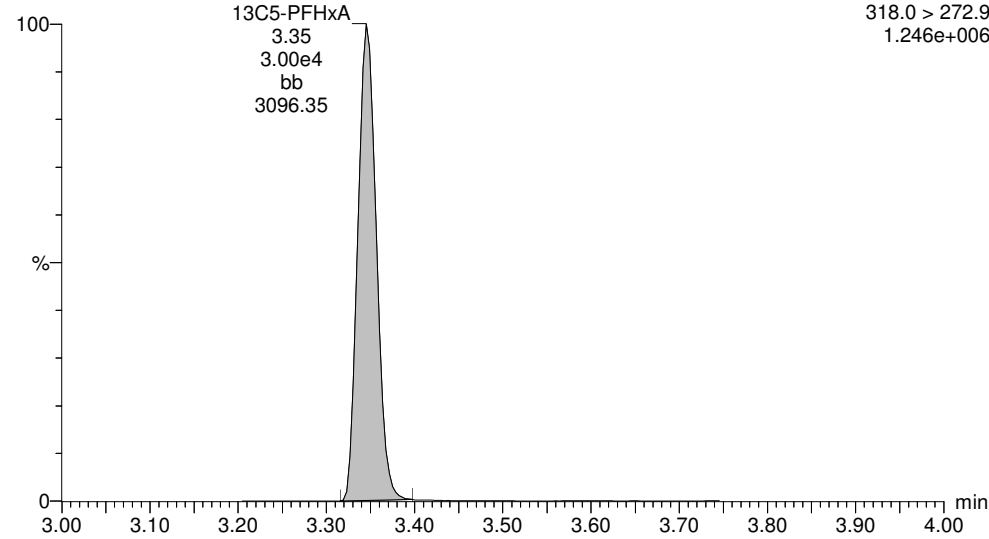
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Printed: Friday, November 04, 2016 15:13:18 Pacific Daylight Time

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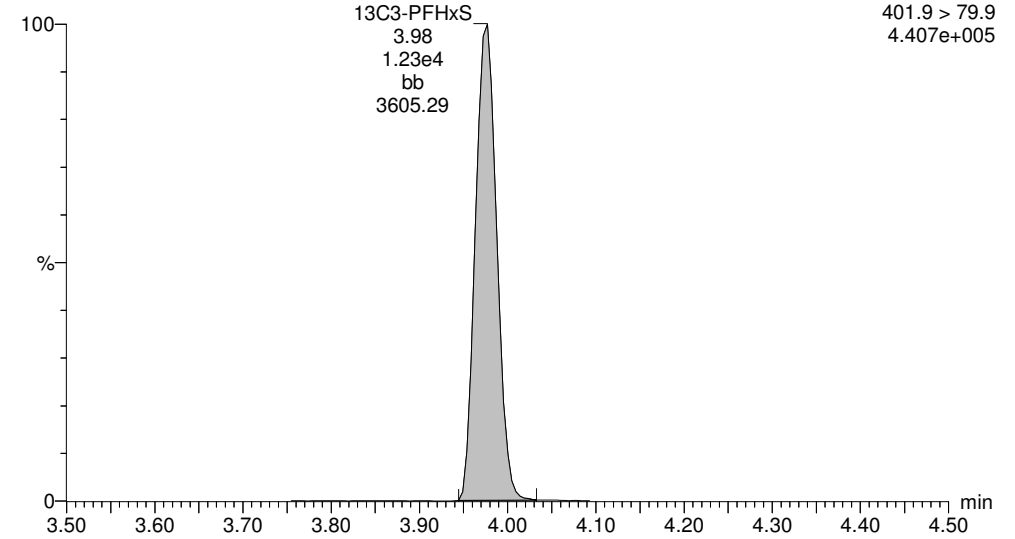
13C5-PFHxA

161102G1_16



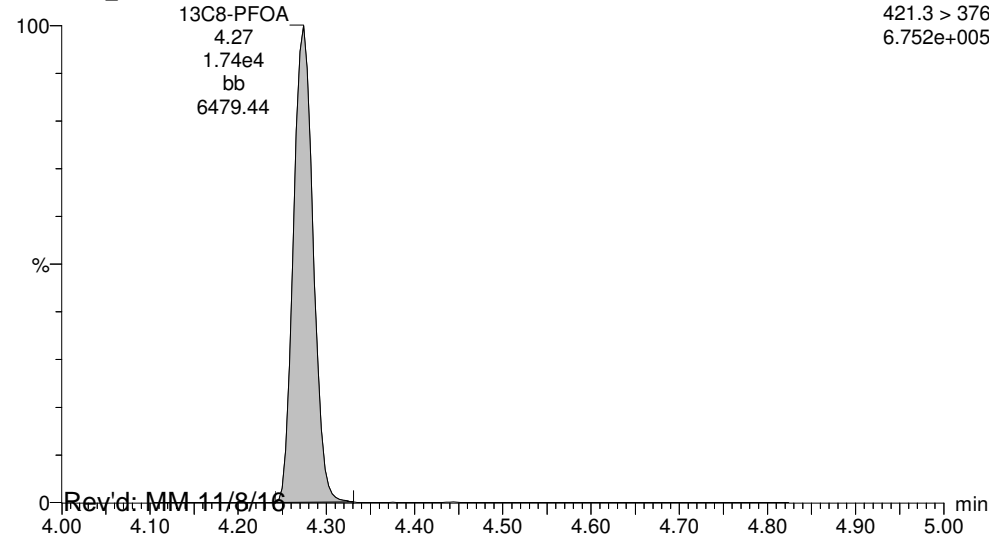
13C3-PFHxS

161102G1_16



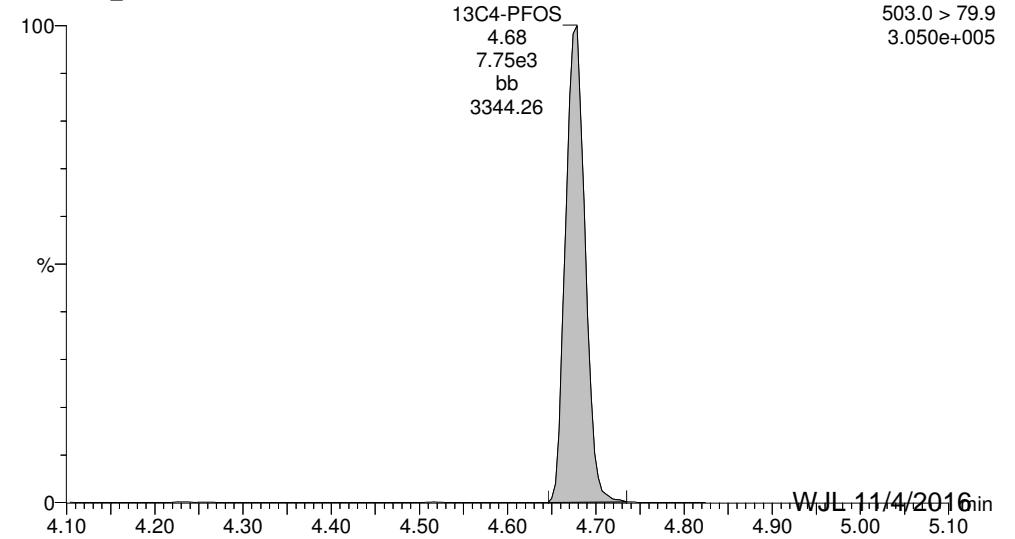
13C8-PFOA

161102G1_16



13C4-PFOS

161102G1_16



Rev'd: MM, 11/8/16

WJL, 11/4/2016

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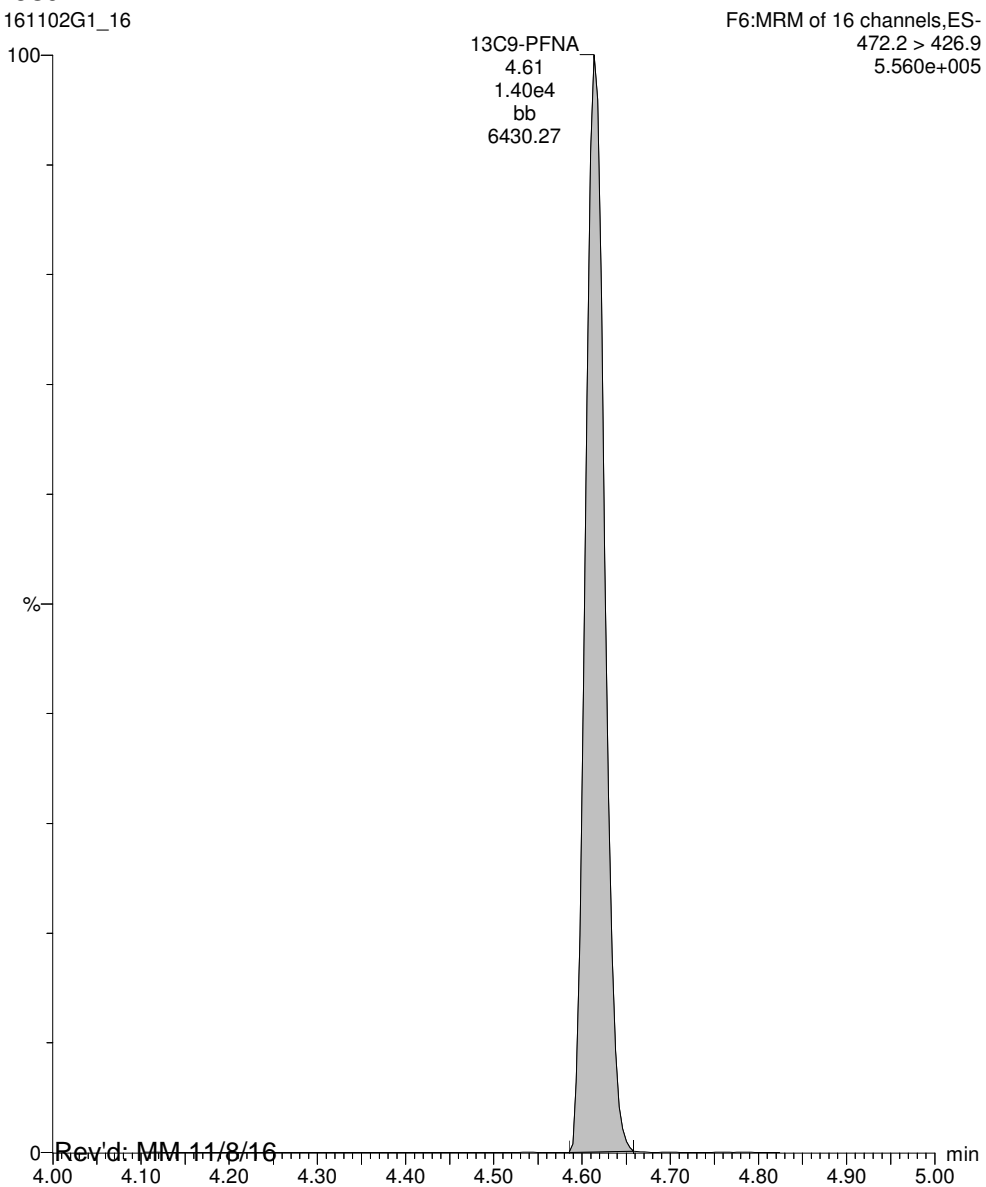
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Printed: Friday, November 04, 2016 15:13:18 Pacific Daylight Time

ID: 1601370-11 MW-BG12-1016 0.125, Description: MW-BG12-1016, Name: 161102G1_16, Date: 02-Nov-2016, Time: 14:03:19, Instrument: , Lab: , User:

13C9-PFNA

161102G1_16



CONTINUING CALIBRATION

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_02.qld

Last Altered: Thursday, November 03, 2016 14:21:00 Pacific Daylight Time
Printed: Thursday, November 03, 2016 14:22:29 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 03 Nov 2016 14:20:54
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J4_02.wiff, Date: 02-Nov-2016, Time: 20:10:11, ID: ST161102J4-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	168.90	2.87e4	1.48e4	1.000	2.03	2.03	23.3	93.3
2	2 PFPeA	218.90	2.81e4	1.71e4	1.000	3.18	3.18	22.9	91.6
3	3 PFBS	79.90	1.45e4	9.06e3	1.000	3.46	3.46	25.1	100.5
4	4 PFHxA	268.90	2.53e4	6.41e3	1.000	3.84	3.84	24.5	97.9
5	5 PFHpA	318.90	2.19e4	1.36e4	1.000	4.33	4.33	23.2	92.8
6	6 PFHxS	79.91	1.20e4	2.17e3	1.000	4.44	4.44	21.9	87.6
7	7 6:2 FTS	406.90	6.97e3	3.99e3	1.000	4.67	4.67	22.0	88.2
8	8 PFOA	368.90	2.51e4	1.12e4	1.000	4.71	4.71	23.4	93.4
9	9 PFNA	419.00	2.20e4	1.31e4	1.000	5.03	5.03	24.8	99.1
10	10 PFOS	79.92	1.09e4	5.03e3	1.000	5.09	5.09	22.3	89.2
11	11 PFDA	469.00	9.55e3	5.40e3	1.000	5.32	5.32	23.1	92.5
12	12 8:2 FTS	506.90	2.45e3	1.29e3	1.000	5.30	5.30	24.9	99.5
13	13 13C3-PFBA	172.00	1.48e4	1.51e4	0.870	1.000	2.03	14.0	112.4
14	14 13C3-PFPeA	221.90	1.71e4	1.52e4	0.937	1.000	3.18	15.0	119.9
15	15 13C3-PFBS	79.95	9.06e3	1.52e4	0.549	1.000	3.46	13.6	108.6
16	16 13C2-PFHxA	269.90	6.41e3	1.52e4	0.897	1.000	3.84	5.89	117.7
17	17 13C4-PFHpA	321.90	1.36e4	1.52e4	0.794	1.000	4.33	14.1	112.7
18	18 18O2-PFHxS	102.90	2.17e3	6.66e3	0.284	1.000	4.44	14.3	114.6
19	19 13C2-6:2 FTS	408.90	3.99e3	1.10e4	0.280	1.000	4.67	16.2	129.3
20	20 13C2-PFOA	369.90	1.12e4	1.10e4	0.809	1.000	4.71	15.7	125.9
21	21 13C5-PFNA	422.90	1.31e4	1.25e4	1.020	1.000	5.03	12.8	102.8
22	22 13C8-PFOS	79.93	5.03e3	4.87e3	0.947	1.000	5.09	13.6	109.2
23	23 13C2-PFDA	470.00	5.40e3	5.58e3	0.881	1.000	5.32	13.7	109.8
24	24 13C2-8:2 FTS	508.70	1.29e3	5.58e3	0.251	1.000	5.29	11.5	91.9
25	25 13C4-PFBA	171.90	1.51e4	1.51e4	1.000	1.000	2.03	12.5	100.0
26	26 13C5-PFHxA	273.00	1.52e4	1.52e4	1.000	1.000	3.84	12.5	100.0
27	27 13C3-PFHxS	80.01	6.66e3	6.66e3	1.000	1.000	4.44	12.5	100.0
28	28 13C8-PFOA	375.90	1.10e4	1.10e4	1.000	1.000	4.71	12.5	100.0
29	29 13C4-PFOS	79.94	4.87e3	4.87e3	1.000	1.000	5.09	12.5	100.0
30	30 13C9-PFNA	427.00	1.25e4	1.25e4	1.000	1.000	5.03	12.5	100.0
31	31 13C6-PFDA	474.00	5.58e3	5.58e3	1.000	1.000	5.32	12.5	100.0

75-125



60-150



40-150

60-150

50-150

60-150



40-150

PW
11/3/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_02.qld

Last Altered: Thursday, November 03, 2016 14:21:00 Pacific Daylight Time

Printed: Thursday, November 03, 2016 14:22:29 Pacific Daylight Time

Name: 161102J4_02.wiff, Date: 02-Nov-2016, Time: 20:10:11, ID: ST161102J4-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105

	# Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 Total PFBS	79.90		9.06e3		1.000		25.1	
33	33 Total PFHxS	79.91		2.17e3		1.000		21.9	
34	34 Total PFOA	368.90		1.12e4		1.000		23.4	
35	35 Total PFOS	79.92		5.03e3		1.000		22.5	

	Sample Name	Acquisition Date	Sample ID	Sample Comment
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2	161102J4_02	11/2/2016 20:10:11	ST161102J4-1 PFC C3.5 16K0105	PFC C3.5 16K0105
3	161102J4_03	11/2/2016 20:22:22	IPA	IPA
4	161102J4_04	11/2/2016 20:34:38	B6K0007-BS1	OPR
5	161102J4_05	11/2/2016 20:46:53	IPA	IPA
6	161102J4_06	11/2/2016 20:59:04	B6K0007-BLK1	Method Blank
7	161102J4_07	11/2/2016 21:11:20	1601218-01RE2	LORNG-FTLT18-092016
8	161102J4_08	11/2/2016 21:23:35	1601218-02RE2	LORNG-FTLT19-092016
9	161102J4_09	11/2/2016 21:35:51	1601370-01@20x	OW11-MW9-1016
10	161102J4_10	11/2/2016 21:48:03	1601370-01@40x	OW11-MW9-1016
11	161102J4_11	11/2/2016 22:00:18	1601370-02@10x	OW11-MW9P-1016
12	161102J4_12	11/2/2016 22:12:35	1601370-02@25x	OW11-MW9P-1016
13	161102J4_13	11/2/2016 22:24:49	IPA	IPA
14	161102J4_14	11/2/2016 22:37:01	IPA	IPA
15	161102J4_15	11/2/2016 22:49:19	1601370-03@20x	OW11-MW8-1016
16	161102J4_16	11/2/2016 23:01:35	1601370-04@20x	OW11-MW1-1016
17	161102J4_17	11/2/2016 23:13:48	1601370-04@40x	OW11-MW1-1016
18	161102J4_18	11/2/2016 23:26:02	IPA	IPA
19	161102J4_19	11/2/2016 23:38:17	IPA	IPA
20	161102J4_20	11/2/2016 23:50:32	B6K0001-MS1@20x	Matrix Spike
21	161102J4_21	11/3/2016 00:02:43	B6K0001-MS1@40x	Matrix Spike
22	161102J4_22	11/3/2016 00:14:59	IPA	IPA
23	161102J4_23	11/3/2016 00:27:14	IPA	IPA
24	161102J4_24	11/3/2016 00:39:26	ST161102J4-2 PFC C3.5 16K0105	PFC C3.5 16K0102 A
25	161102J4_25	11/3/2016 00:51:41	IPA	IPA
26	161102J4_26	11/3/2016 01:03:53	B6K0001-MSD1@20x	Matrix Spike Dup
27	161102J4_27	11/3/2016 01:16:08	B6K0001-MSD1@40x	Matrix Spike Dup
28	161102J4_28	11/3/2016 01:28:22	1601370-05@20x	OW11-MW7-1016
29	161102J4_29	11/3/2016 01:40:37	1601370-05@40x	OW11-MW7-1016
30	161102J4_30	11/3/2016 01:52:50	IPA	IPA
31	161102J4_31	11/3/2016 02:05:06	IPA	IPA
32	161102J4_32	11/3/2016 02:17:22	1601370-06@20x	OW11-MW5-1016
33	161102J4_33	11/3/2016 02:29:37	1601370-06@40x	OW11-MW5-1016
34	161102J4_34	11/3/2016 02:41:52	1601370-07@20x	OW11-MW6-1016
35	161102J4_35	11/3/2016 02:54:07	1601370-07@40x	OW11-MW6-1016
36	161102J4_36	11/3/2016 03:06:23	IPA	IPA
37	161102J4_37	11/3/2016 03:18:37	IPA	IPA
38	161102J4_38	11/3/2016 03:30:53	1601370-08@10x	OW11-MW4-1016
39	161102J4_39	11/3/2016 03:43:06	1601370-08@40x	OW11-MW4-1016
40	161102J4_40	11/3/2016 03:55:18	1601370-09@10	MW-BG13-1016
41	161102J4_41	11/3/2016 04:07:33	IPA	IPA
42	161102J4_42	11/3/2016 04:19:49	IPA	IPA
43	161102J4_43	11/3/2016 04:32:03	ST161102J4-3 PFC C3.5 16K0105	PFC C3.5 16K0102 A
44	161102J4_44	11/3/2016 04:44:17	IPA	IPA

LC Calibration Standards Review Checklist Q2

		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
Calibration ID: <u>ST161102J4-1</u>	L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration ID: <u>↓ -2</u>	L M H	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration ID: <u>↓ -3</u>	L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Calibration ID: _____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibration ID: _____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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NA

Full Mass Cal. Date: 10/14/16

Reviewed By: AC 11/3/16
Initials/Date

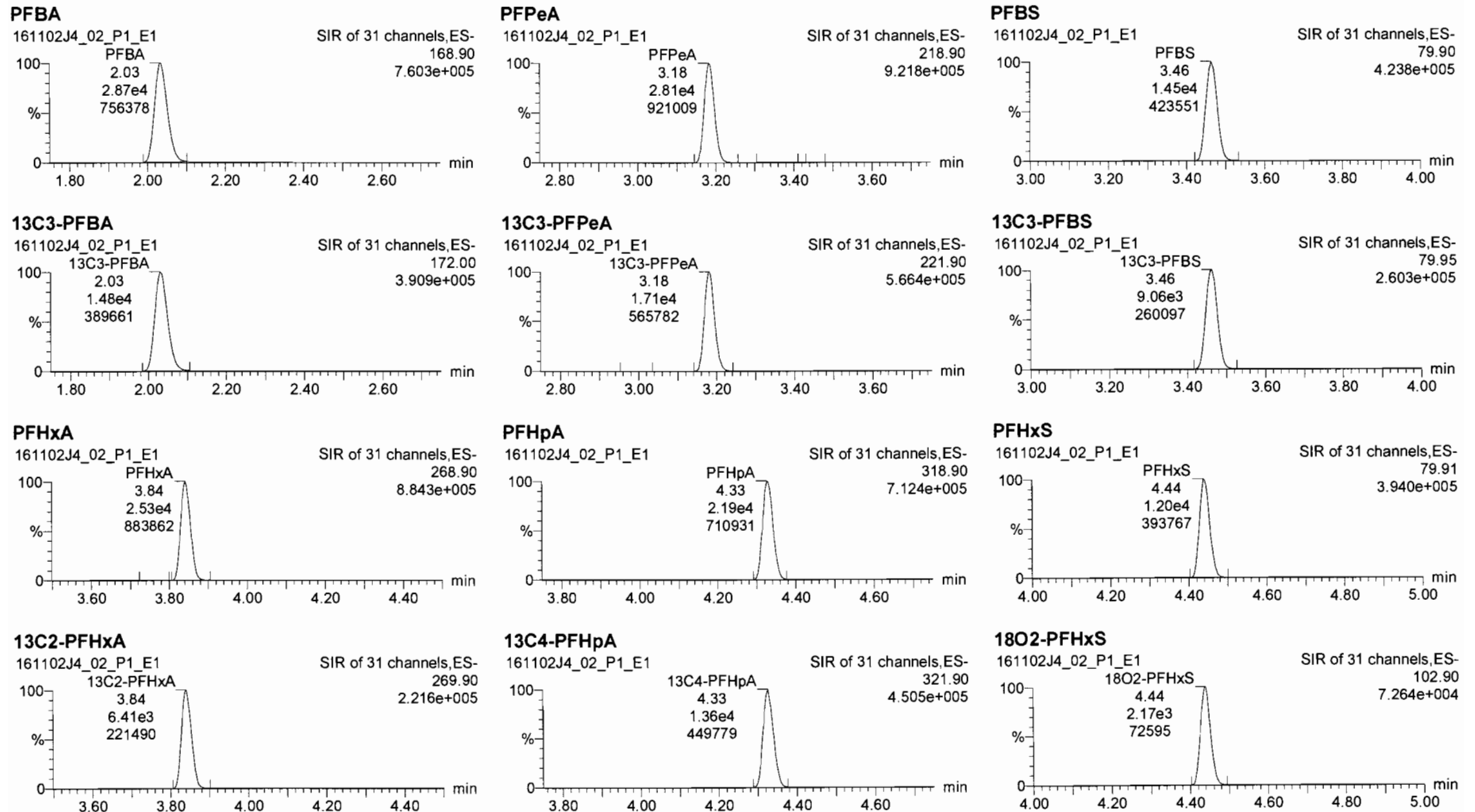
Comments:
PFC List 18A

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_02.qld

Last Altered: Thursday, November 03, 2016 14:21:00 Pacific Daylight Time
Printed: Thursday, November 03, 2016 14:22:40 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 03 Nov 2016 14:20:54
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J4_02.wiff, Date: 02-Nov-2016, Time: 20:10:11, ID: ST161102J4-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105



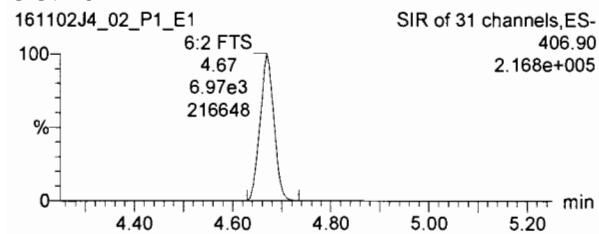
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Last Altered: Thursday, November 03, 2016 14:21:00 Pacific Daylight Time

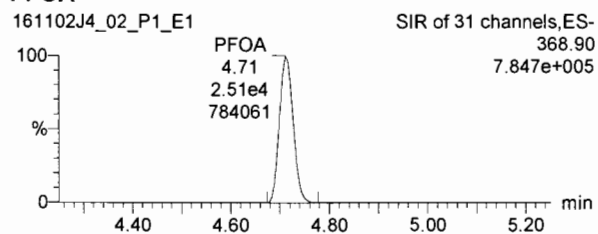
Printed: Thursday, November 03, 2016 14:22:40 Pacific Daylight Time

Name: 161102J4_02.wiff, Date: 02-Nov-2016, Time: 20:10:11, ID: ST161102J4-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105

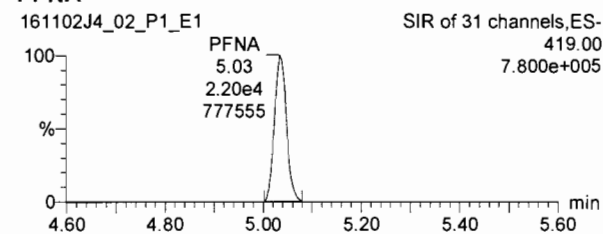
6:2 FTS



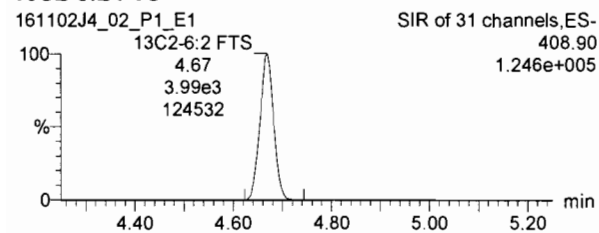
PFOA



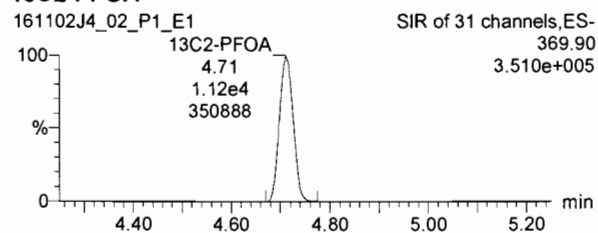
PFNA



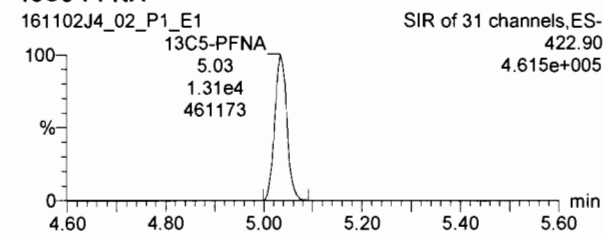
13C2-6:2 FTS



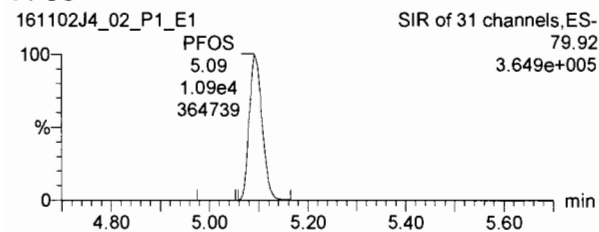
13C2-PFOA



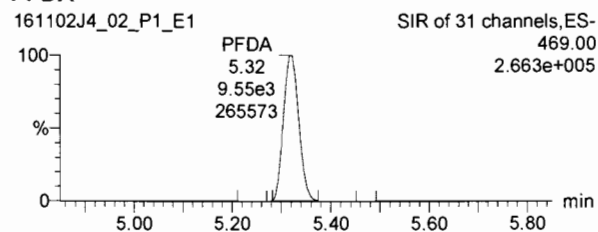
13C5-PFNA



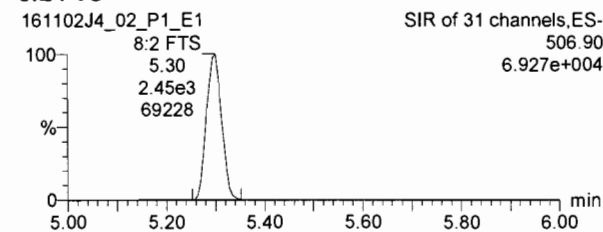
PFOS



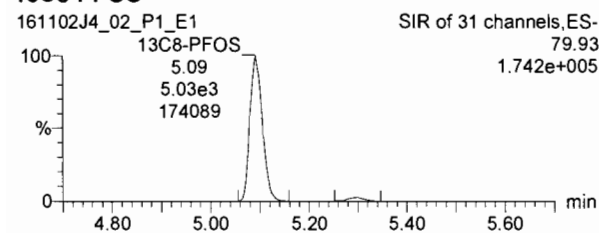
PFDA



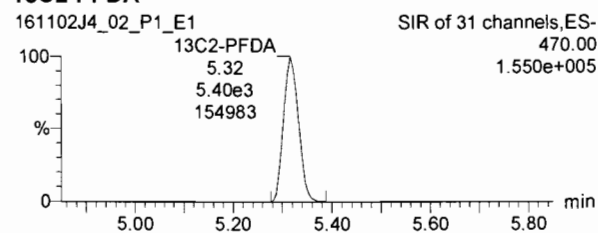
8:2 FTS



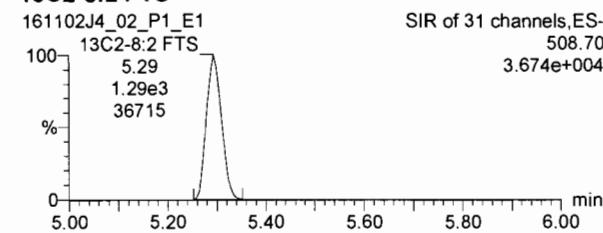
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

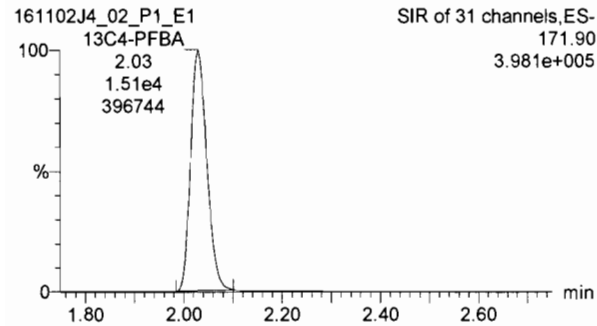


Dataset: U:\Q2.PRO\Results\161102J4\161102J4_02.qld

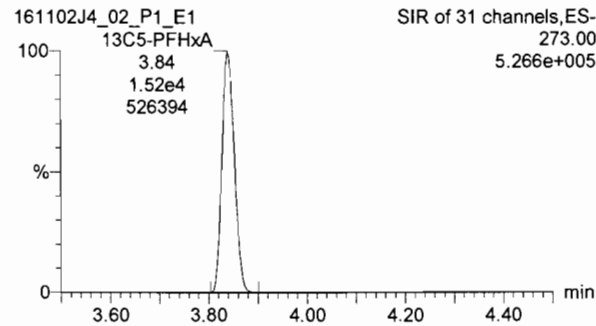
Last Altered: Thursday, November 03, 2016 14:21:00 Pacific Daylight Time
Printed: Thursday, November 03, 2016 14:22:40 Pacific Daylight Time

Name: 161102J4_02.wiff, Date: 02-Nov-2016, Time: 20:10:11, ID: ST161102J4-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105

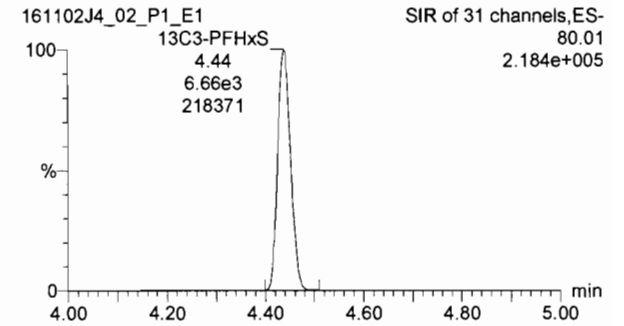
13C4-PFBA



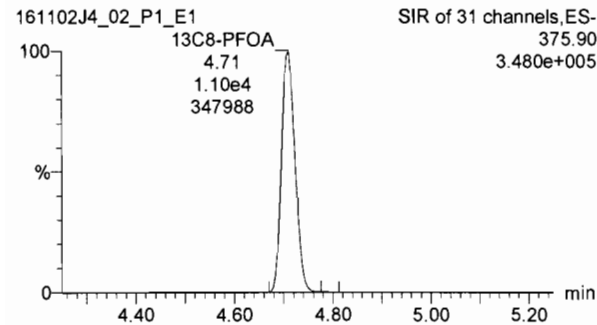
13C5-PFHxA



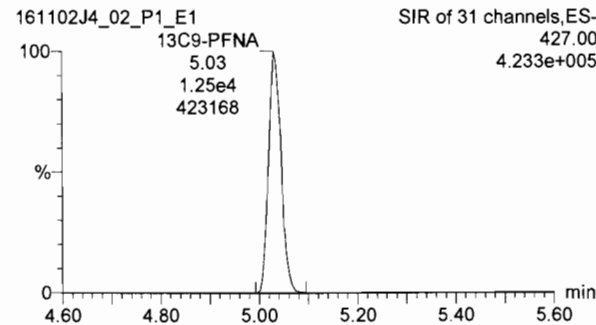
13C3-PFHxS



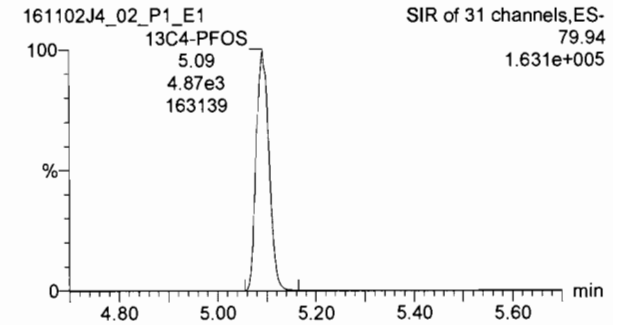
13C8-PFOA



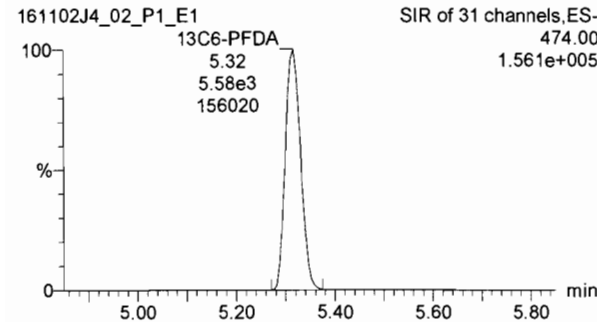
13C9-PFNA



13C4-PFOS



13C6-PFDA



Dataset: U:\Q2.PRO\Results\161102J4\161102J4_24.qld

Last Altered: Thursday, November 03, 2016 14:23:16 Pacific Daylight Time
Printed: Thursday, November 03, 2016 14:24:07 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 03 Nov 2016 14:20:54
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J4_24.wiff, Date: 03-Nov-2016, Time: 00:39:26, ID: ST161102J4-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	168.90	2.77e4	1.40e4		1.000	2.03	23.6	94.4
2	2 PFPeA	218.90	2.60e4	1.61e4		1.000	3.18	22.5	89.9
3	3 PFBS	79.90	1.42e4	8.74e3		1.000	3.46	25.6	102.3
4	4 PFHxA	268.90	2.34e4	6.03e3		1.000	3.84	24.1	96.3
5	5 PFHpA	318.90	2.05e4	1.22e4		1.000	4.33	24.2	96.8
6	6 PFHxS	79.91	1.11e4	1.91e3		1.000	4.44	23.1	92.5
7	7 6:2 FTS	406.90	6.21e3	3.70e3		1.000	4.67	21.1	84.6
8	8 PFOA	368.90	2.34e4	1.08e4		1.000	4.71	22.5	89.9
9	9 PFNA	419.00	2.20e4	1.28e4		1.000	5.04	25.3	101.2
10	10 PFOS	79.92	1.05e4	5.15e3		1.000	5.09	21.0	83.9
11	11 PFDA	469.00	9.05e3	5.45e3		1.000	5.32	21.7	86.9
12	12 8:2 FTS	506.90	2.24e3	1.29e3		1.000	5.29	22.6	90.4
13	13 13C3-PFBA	172.00	1.40e4	1.42e4	0.870	1.000	2.03	14.2	113.5
14	14 13C3-PFPeA	221.90	1.61e4	1.48e4	0.937	1.000	3.18	14.5	116.2
15	15 13C3-PFBS	79.95	8.74e3	1.48e4	0.549	1.000	3.46	13.5	107.8
16	16 13C2-PFHxA	269.90	6.03e3	1.48e4	0.897	1.000	3.84	5.69	113.9
17	17 13C4-PFHpA	321.90	1.22e4	1.48e4	0.794	1.000	4.32	13.1	104.5
18	18 18O2-PFHxS	102.90	1.91e3	6.38e3	0.284	1.000	4.43	13.2	105.3
19	19 13C2-6:2 FTS	408.90	3.70e3	1.06e4	0.280	1.000	4.67	15.6	124.6
20	20 13C2-PFOA	369.90	1.08e4	1.06e4	0.809	1.000	4.71	15.8	126.2
21	21 13C5-PFNA	422.90	1.28e4	1.36e4	1.020	1.000	5.03	11.6	92.5
22	22 13C8-PFOS	79.93	5.15e3	4.55e3	0.947	1.000	5.09	14.9	119.6
23	23 13C2-PFDA	470.00	5.45e3	5.36e3	0.881	1.000	5.32	14.4	115.4
24	24 13C2-8:2 FTS	508.70	1.29e3	5.36e3	0.251	1.000	5.29	12.0	96.0
25	25 13C4-PFBA	171.90	1.42e4	1.42e4	1.000	1.000	2.03	12.5	100.0
26	26 13C5-PFHxA	273.00	1.48e4	1.48e4	1.000	1.000	3.84	12.5	100.0
27	27 13C3-PFHxS	80.01	6.38e3	6.38e3	1.000	1.000	4.43	12.5	100.0
28	28 13C8-PFOA	375.90	1.06e4	1.06e4	1.000	1.000	4.71	12.5	100.0
29	29 13C4-PFOS	79.94	4.55e3	4.55e3	1.000	1.000	5.10	12.5	100.0
30	30 13C9-PFNA	427.00	1.36e4	1.36e4	1.000	1.000	5.03	12.5	100.0
31	31 13C6-PFDA	474.00	5.36e3	5.36e3	1.000	1.000	5.31	12.5	100.0

75-125

60-150

40-150

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40-150

PW
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Dataset: U:\Q2.PRO\Results\161102J4\161102J4_24.qld

Last Altered: Thursday, November 03, 2016 14:23:16 Pacific Daylight Time

Printed: Thursday, November 03, 2016 14:24:07 Pacific Daylight Time

Name: 161102J4_24.wiff, Date: 03-Nov-2016, Time: 00:39:26, ID: ST161102J4-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 Total PFBS	79.90		8.74e3		1.000		25.6	
33	33 Total PFHxS	79.91		1.91e3		1.000		23.1	
34	34 Total PFOA	368.90		1.08e4		1.000		22.5	
35	35 Total PFOS	79.92		5.15e3		1.000		21.1	

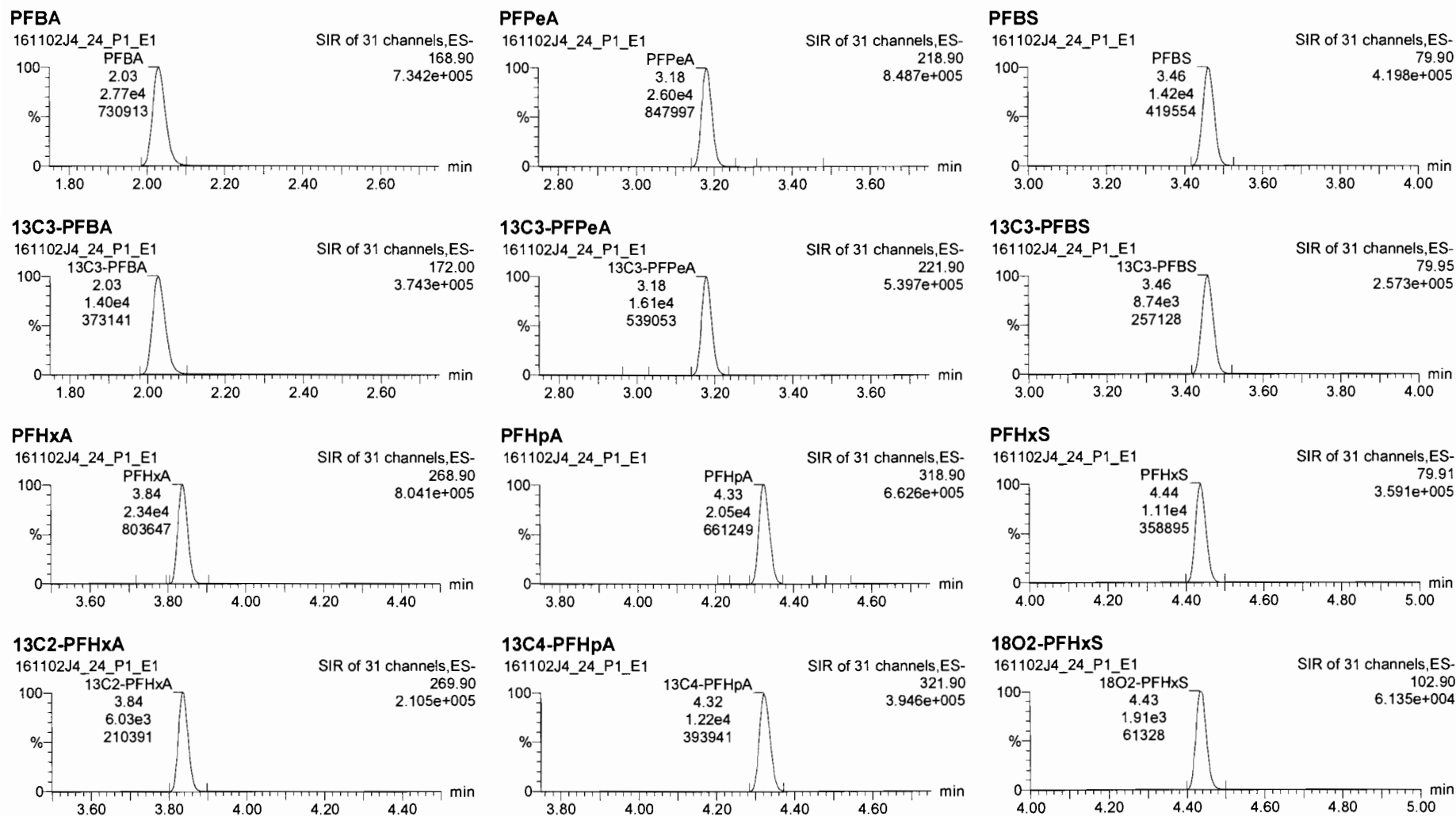
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2	161102J4_02	11/2/2016 20:10:11	ST161102J4-1 PFC C3.5 16K0105	PFC C3.5 16K0105
3	161102J4_03	11/2/2016 20:22:22	IPA	IPA
4	161102J4_04	11/2/2016 20:34:38	B6K0007-BS1	OPR
5	161102J4_05	11/2/2016 20:46:53	IPA	IPA
6	161102J4_06	11/2/2016 20:59:04	B6K0007-BLK1	Method Blank
7	161102J4_07	11/2/2016 21:11:20	1601218-01RE2	LORNG-FFLT18-092016
8	161102J4_08	11/2/2016 21:23:35	1601218-02RE2	LORNG-FFLT19-092016
9	161102J4_09	11/2/2016 21:35:51	1601370-01@20x	OW11-MW9-1016
10	161102J4_10	11/2/2016 21:48:03	1601370-01@40x	OW11-MW9-1016
11	161102J4_11	11/2/2016 22:00:18	1601370-02@10x	OW11-MW9P-1016
12	161102J4_12	11/2/2016 22:12:35	1601370-02@25x	OW11-MW9P-1016
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17	161102J4_17	11/2/2016 23:13:48	1601370-04@40x	OW11-MW1-1016
18	161102J4_18	11/2/2016 23:26:02	IPA	IPA
19	161102J4_19	11/2/2016 23:38:17	IPA	IPA
20	161102J4_20	11/2/2016 23:50:32	B6K0001-MS1@20x	Matrix Spike
21	161102J4_21	11/3/2016 00:02:43	B6K0001-MS1@40x	Matrix Spike
22	161102J4_22	11/3/2016 00:14:59	IPA	IPA
23	161102J4_23	11/3/2016 00:27:14	IPA	IPA
24	161102J4_24	11/3/2016 00:39:26	ST161102J4-2 PFC C3.5 16K0105	PFC C3.5 16K0102 A
25	161102J4_25	11/3/2016 00:51:41	IPA	IPA
26	161102J4_26	11/3/2016 01:03:53	B6K0001-MSD1@20x	Matrix Spike Dup
27	161102J4_27	11/3/2016 01:16:08	B6K0001-MSD1@40x	Matrix Spike Dup
28	161102J4_28	11/3/2016 01:28:22	1601370-05@20x	OW11-MW7-1016
29	161102J4_29	11/3/2016 01:40:37	1601370-05@40x	OW11-MW7-1016
30	161102J4_30	11/3/2016 01:52:50	IPA	IPA
31	161102J4_31	11/3/2016 02:05:06	IPA	IPA
32	161102J4_32	11/3/2016 02:17:22	1601370-06@20x	OW11-MW5-1016
33	161102J4_33	11/3/2016 02:29:37	1601370-06@40x	OW11-MW5-1016
34	161102J4_34	11/3/2016 02:41:52	1601370-07@20x	OW11-MW6-1016
35	161102J4_35	11/3/2016 02:54:07	1601370-07@40x	OW11-MW6-1016
36	161102J4_36	11/3/2016 03:06:23	IPA	IPA
37	161102J4_37	11/3/2016 03:18:37	IPA	IPA
38	161102J4_38	11/3/2016 03:30:53	1601370-08@10x	OW11-MW4-1016
39	161102J4_39	11/3/2016 03:43:06	1601370-08@40x	OW11-MW4-1016
40	161102J4_40	11/3/2016 03:55:18	1601370-09@10	MW-BG13-1016
41	161102J4_41	11/3/2016 04:07:33	IPA	IPA
42	161102J4_42	11/3/2016 04:19:49	IPA	IPA
43	161102J4_43	11/3/2016 04:32:03	ST161102J4-3 PFC C3.5 16K0105	PFC C3.5 16K0102 A
44	161102J4_44	11/3/2016 04:44:17	IPA	IPA

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_24.qld

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Printed: Thursday, November 03, 2016 14:23:55 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 03 Nov 2016 14:20:54
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J4_24.wiff, Date: 03-Nov-2016, Time: 00:39:26, ID: ST161102J4-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A

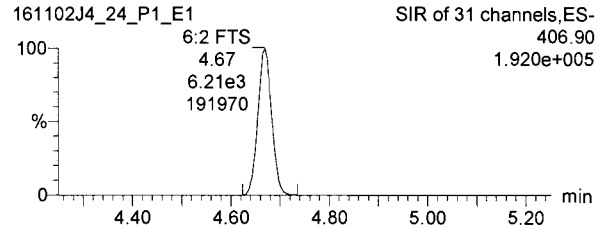


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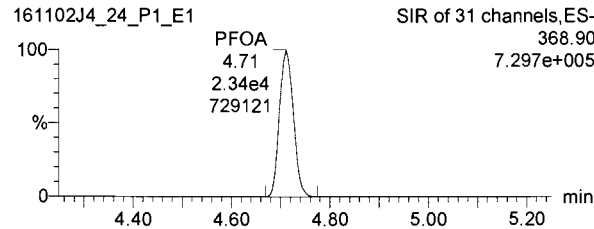
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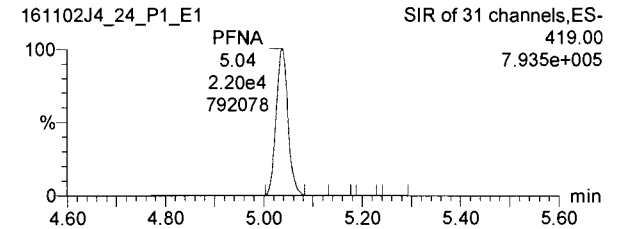
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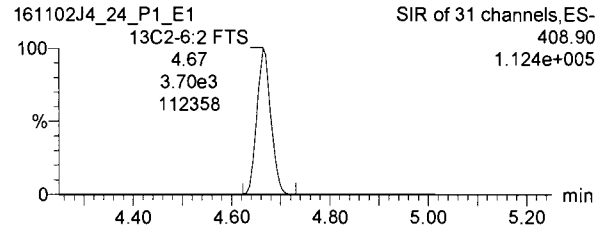
PFOA



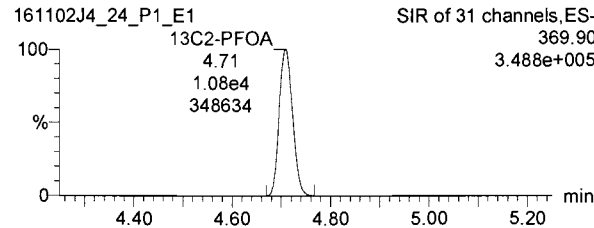
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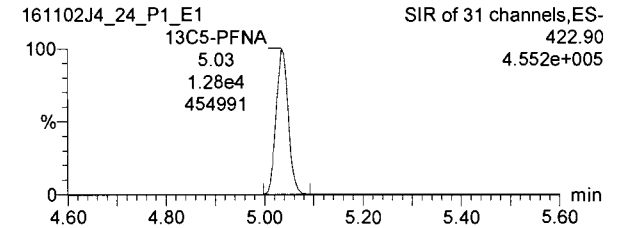
13C2-6:2 FTS



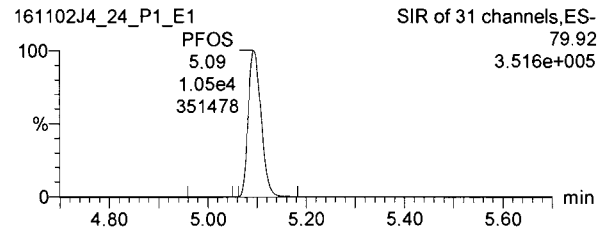
13C2-PFOA



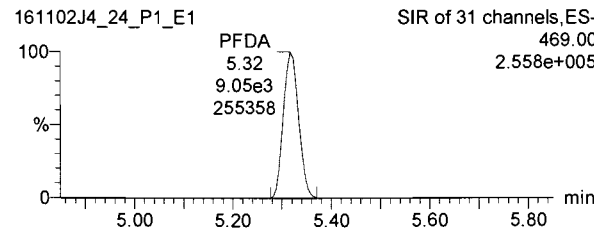
13C5-PFNA



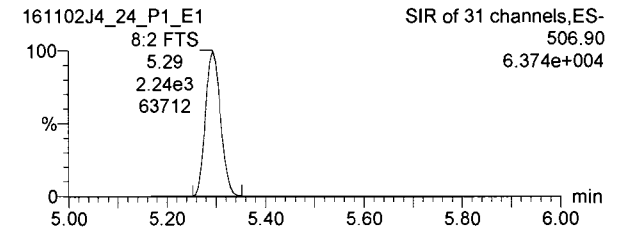
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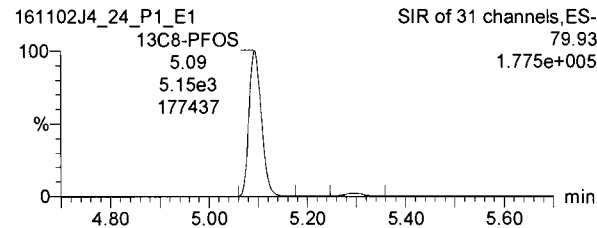
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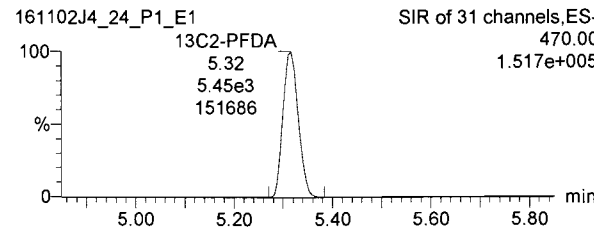
8:2 FTS



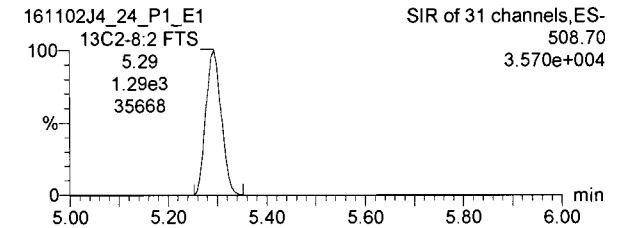
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

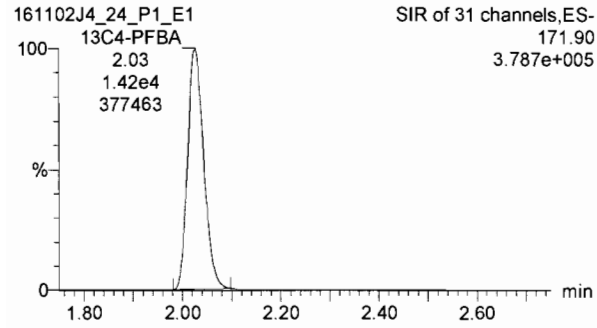


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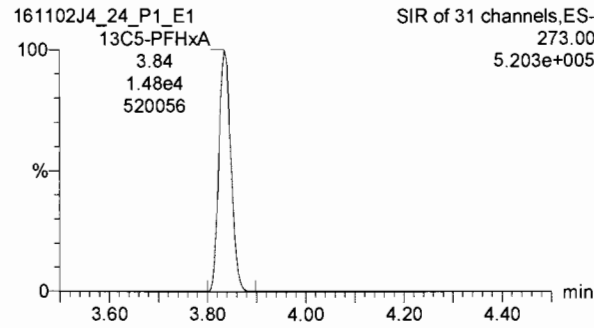
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Printed: Thursday, November 03, 2016 14:23:55 Pacific Daylight Time

Name: 161102J4_24.wiff, Date: 03-Nov-2016, Time: 00:39:26, ID: ST161102J4-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A

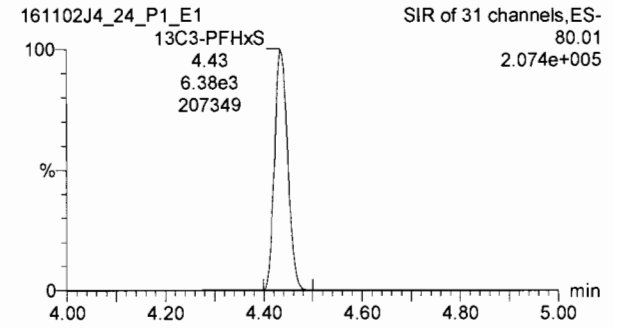
13C4-PFBA



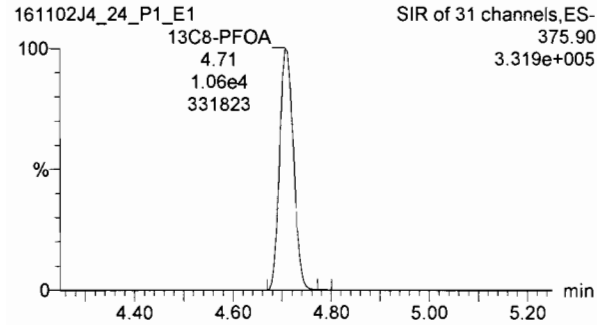
13C5-PFHxA



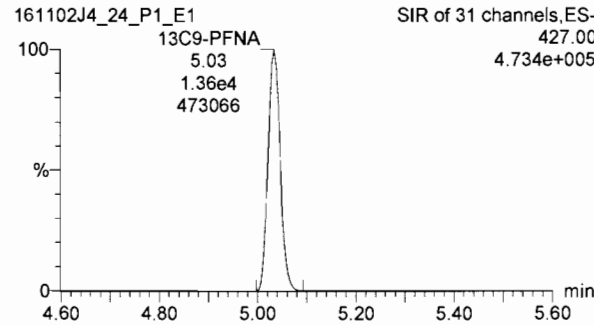
13C3-PFHxS



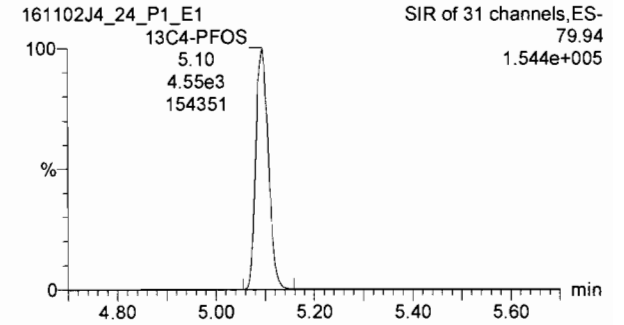
13C8-PFOA



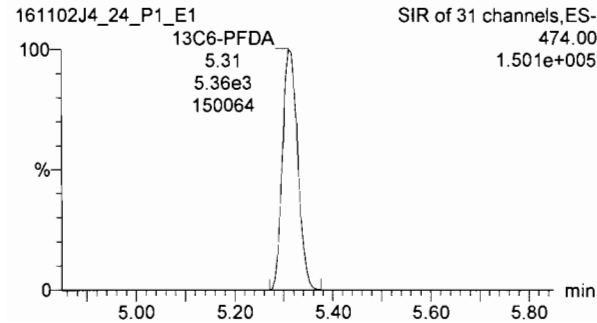
13C9-PFNA



13C4-PFOS



13C6-PFDA



Dataset: U:\Q2.PRO\Results\161102J4\161102J4_43.qld

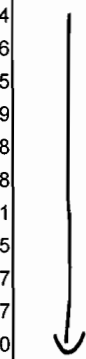
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Printed: Thursday, November 03, 2016 14:25:17 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 03 Nov 2016 14:20:54
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

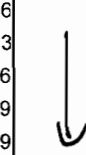
Name: 161102J4_43.wiff, Date: 03-Nov-2016, Time: 04:32:03, ID: ST161102J4-3 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	168.90	2.81e4	1.43e4	1.000	2.03	2.03	23.6	94.4
2	2 PFPeA	218.90	2.69e4	1.59e4	1.000	3.19	3.19	23.6	94.4
3	3 PFBS	79.90	1.41e4	8.80e3	1.000	3.47	3.47	25.1	100.6
4	4 PFHxA	268.90	2.29e4	6.22e3	1.000	3.85	3.85	22.9	91.5
5	5 PFHpA	318.90	2.14e4	1.23e4	1.000	4.33	4.33	25.0	99.9
6	6 PFHxS	79.91	1.18e4	1.94e3	1.000	4.44	4.44	24.2	96.8
7	7 6:2 FTS	406.90	6.56e3	3.61e3	1.000	4.67	4.67	23.0	91.8
8	8 PFOA	368.90	2.31e4	1.01e4	1.000	4.72	4.72	23.8	95.1
9	9 PFNA	419.00	1.80e4	1.20e4	1.000	5.04	5.04	22.1	88.5
10	10 PFOS	79.92	1.06e4	5.14e3	1.000	5.10	5.10	21.2	84.7
11	11 PFDA	469.00	9.00e3	5.03e3	1.000	5.33	5.33	23.4	93.7
12	12 8:2 FTS	506.90	2.38e3	1.19e3	1.000	5.31	5.31	26.3	105.0
13	13 13C3-PFBA	172.00	1.43e4	1.46e4	0.870	1.000	2.03	14.0	112.2
14	14 13C3-PFPeA	221.90	1.59e4	1.41e4	0.937	1.000	3.18	15.0	119.6
15	15 13C3-PFBS	79.95	8.80e3	1.41e4	0.549	1.000	3.46	14.2	113.3
16	16 13C2-PFHxA	269.90	6.22e3	1.41e4	0.897	1.000	3.84	6.13	122.6
17	17 13C4-PFHpA	321.90	1.23e4	1.41e4	0.794	1.000	4.33	13.7	109.9
18	18 18O2-PFHxS	102.90	1.94e3	6.58e3	0.284	1.000	4.44	13.0	103.9
19	19 13C2-6:2 FTS	408.90	3.61e3	1.04e4	0.280	1.000	4.67	15.6	124.5
20	20 13C2-PFOA	369.90	1.01e4	1.04e4	0.809	1.000	4.72	15.1	120.8
21	21 13C5-PFNA	422.90	1.20e4	1.19e4	1.020	1.000	5.04	12.4	99.1
22	22 13C8-PFOS	79.93	5.14e3	4.54e3	0.947	1.000	5.10	14.9	119.6
23	23 13C2-PFDA	470.00	5.03e3	4.78e3	0.881	1.000	5.33	14.9	119.4
24	24 13C2-8:2 FTS	508.70	1.19e3	4.78e3	0.251	1.000	5.31	12.4	98.9
25	25 13C4-PFBA	171.90	1.46e4	1.46e4	1.000	1.000	2.03	12.5	100.0
26	26 13C5-PFHxA	273.00	1.41e4	1.41e4	1.000	1.000	3.84	12.5	100.0
27	27 13C3-PFHxS	80.01	6.58e3	6.58e3	1.000	1.000	4.44	12.5	100.0
28	28 13C8-PFOA	375.90	1.04e4	1.04e4	1.000	1.000	4.72	12.5	100.0
29	29 13C4-PFOS	79.94	4.54e3	4.54e3	1.000	1.000	5.10	12.5	100.0
30	30 13C9-PFNA	427.00	1.19e4	1.19e4	1.000	1.000	5.04	12.5	100.0
31	31 13C6-PFDA	474.00	4.78e3	4.78e3	1.000	1.000	5.32	12.5	100.0

75-125



60-150



40-150

60-150

50-150

60-150

40-150

PW
11/3/16

Dataset: U:\Q2.PRO\Results\161102J4\161102J4_43.qld

Last Altered: Thursday, November 03, 2016 14:24:45 Pacific Daylight Time

Printed: Thursday, November 03, 2016 14:25:17 Pacific Daylight Time

Name: 161102J4_43.wiff, Date: 03-Nov-2016, Time: 04:32:03, ID: ST161102J4-3 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A

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32	32 Total PFBS	79.90		8.80e3		1.000		25.1	
33	33 Total PFHxS	79.91		1.94e3		1.000		24.2	
34	34 Total PFOA	368.90		1.01e4		1.000		23.8	
35	35 Total PFOS	79.92		5.14e3		1.000		21.3	

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161102J4_01	11/2/2016 19:57:56	IPA	IPA
2	161102J4_02	11/2/2016 20:10:11	ST161102J4-1 PFC C3.5 16K0105	PFC C3.5 16K0105
3	161102J4_03	11/2/2016 20:22:22	IPA	IPA
4	161102J4_04	11/2/2016 20:34:38	B6K0007-BS1	OPR
5	161102J4_05	11/2/2016 20:46:53	IPA	IPA
6	161102J4_06	11/2/2016 20:59:04	B6K0007-BLK1	Method Blank
7	161102J4_07	11/2/2016 21:11:20	1601218-01RE2	LORNG-FTLT18-092016
8	161102J4_08	11/2/2016 21:23:35	1601218-02RE2	LORNG-FTLT19-092016
9	161102J4_09	11/2/2016 21:35:51	1601370-01@20x	OW11-MW9-1016
10	161102J4_10	11/2/2016 21:48:03	1601370-01@40x	OW11-MW9-1016
11	161102J4_11	11/2/2016 22:00:18	1601370-02@10x	OW11-MW9P-1016
12	161102J4_12	11/2/2016 22:12:35	1601370-02@25x	OW11-MW9P-1016
13	161102J4_13	11/2/2016 22:24:49	IPA	IPA
14	161102J4_14	11/2/2016 22:37:01	IPA	IPA
15	161102J4_15	11/2/2016 22:49:19	1601370-03@20x	OW11-MW8-1016
16	161102J4_16	11/2/2016 23:01:35	1601370-04@20x	OW11-MW1-1016
17	161102J4_17	11/2/2016 23:13:48	1601370-04@40x	OW11-MW1-1016
18	161102J4_18	11/2/2016 23:26:02	IPA	IPA
19	161102J4_19	11/2/2016 23:38:17	IPA	IPA
20	161102J4_20	11/2/2016 23:50:32	B6K0001-MS1@20x	Matrix Spike
21	161102J4_21	11/3/2016 00:02:43	B6K0001-MS1@40x	Matrix Spike
22	161102J4_22	11/3/2016 00:14:59	IPA	IPA
23	161102J4_23	11/3/2016 00:27:14	IPA	IPA
24	161102J4_24	11/3/2016 00:39:26	ST161102J4-2 PFC C3.5 16K0105	PFC C3.5 16K0102 A
25	161102J4_25	11/3/2016 00:51:41	IPA	IPA
26	161102J4_26	11/3/2016 01:03:53	B6K0001-MSD1@20x	Matrix Spike Dup
27	161102J4_27	11/3/2016 01:16:08	B6K0001-MSD1@40x	Matrix Spike Dup
28	161102J4_28	11/3/2016 01:28:22	1601370-05@20x	OW11-MW7-1016
29	161102J4_29	11/3/2016 01:40:37	1601370-05@40x	OW11-MW7-1016
30	161102J4_30	11/3/2016 01:52:50	IPA	IPA
31	161102J4_31	11/3/2016 02:05:06	IPA	IPA
32	161102J4_32	11/3/2016 02:17:22	1601370-06@20x	OW11-MW5-1016
33	161102J4_33	11/3/2016 02:29:37	1601370-06@40x	OW11-MW5-1016
34	161102J4_34	11/3/2016 02:41:52	1601370-07@20x	OW11-MW6-1016
35	161102J4_35	11/3/2016 02:54:07	1601370-07@40x	OW11-MW6-1016
36	161102J4_36	11/3/2016 03:06:23	IPA	IPA
37	161102J4_37	11/3/2016 03:18:37	IPA	IPA
38	161102J4_38	11/3/2016 03:30:53	1601370-08@10x	OW11-MW4-1016
39	161102J4_39	11/3/2016 03:43:06	1601370-08@40x	OW11-MW4-1016
40	161102J4_40	11/3/2016 03:55:18	1601370-09@10	MW-BG13-1016
41	161102J4_41	11/3/2016 04:07:33	IPA	IPA
42	161102J4_42	11/3/2016 04:19:49	IPA	IPA
43	161102J4_43	11/3/2016 04:32:03	ST161102J4-3 PFC C3.5 16K0105	PFC C3.5 16K0102 A
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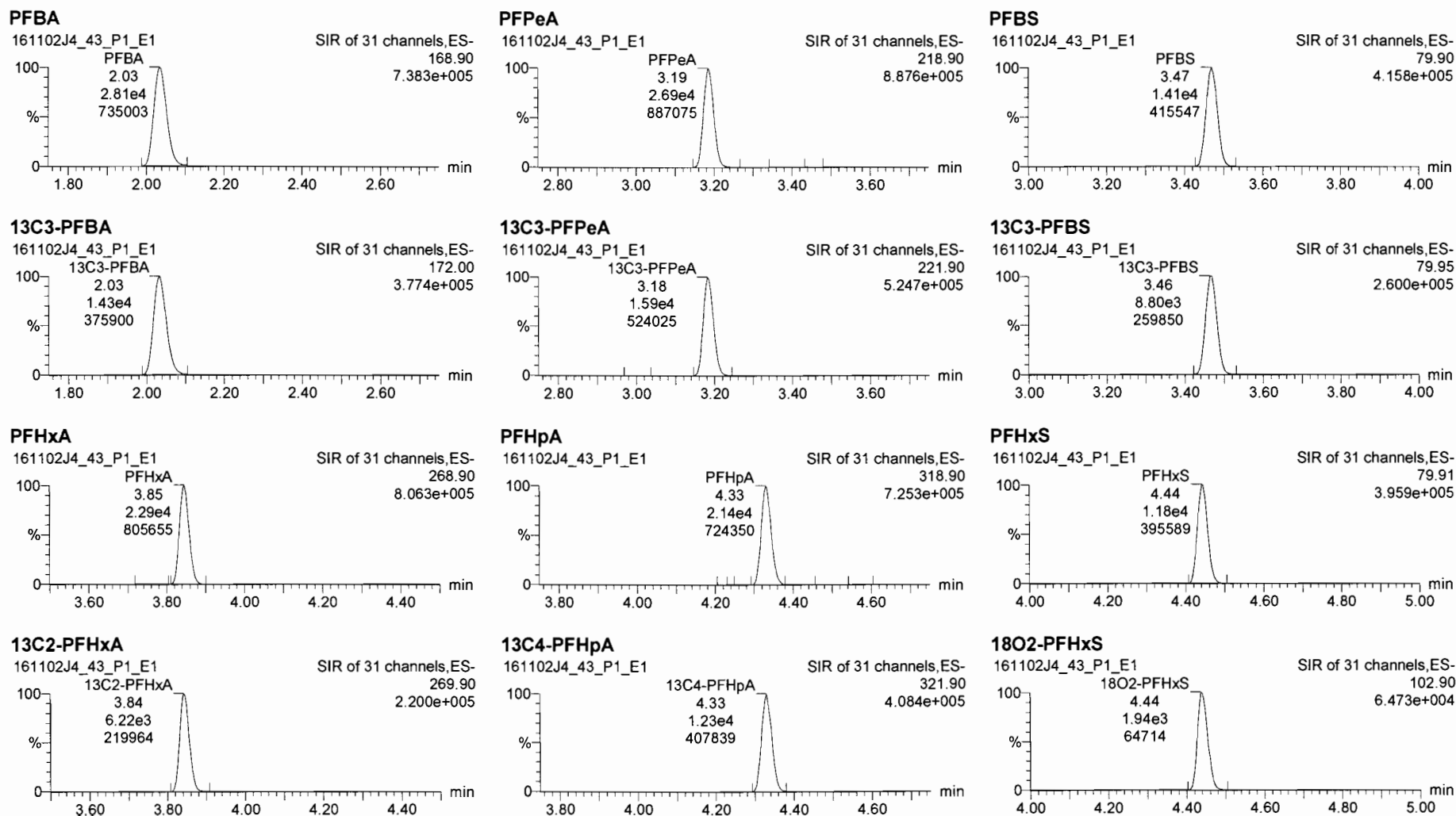
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Printed: Thursday, November 03, 2016 14:25:30 Pacific Daylight Time

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Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J4_43.wiff, Date: 03-Nov-2016, Time: 04:32:03, ID: ST161102J4-3 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A



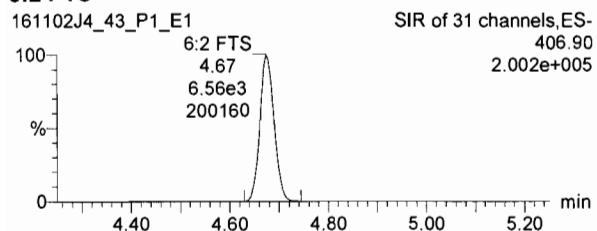
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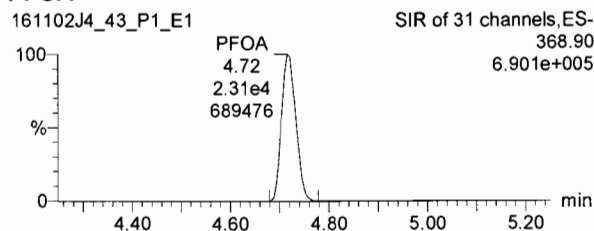
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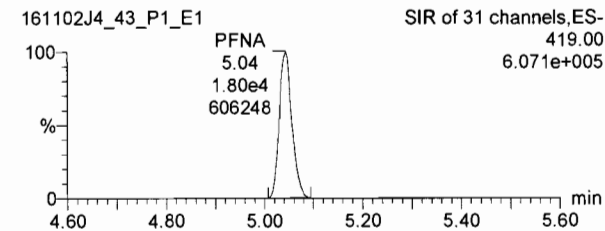
6:2 FTS



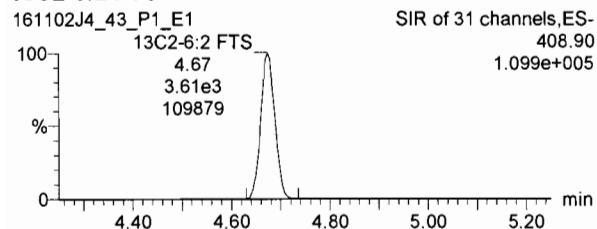
PFOA



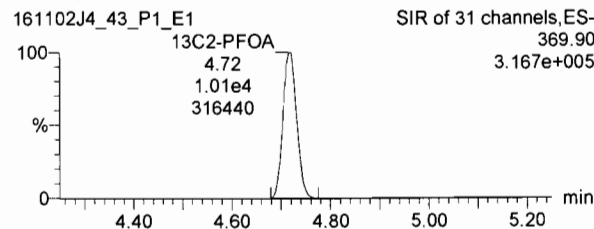
PFNA



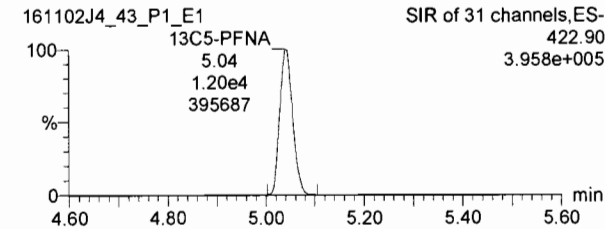
13C2-6:2 FTS



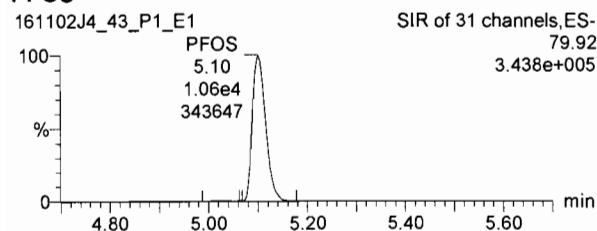
13C2-PFOA



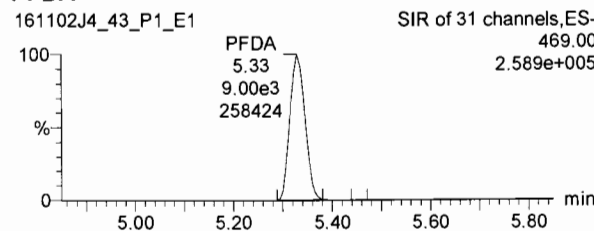
13C5-PFNA



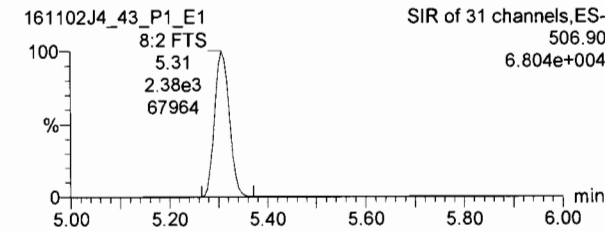
PFOS



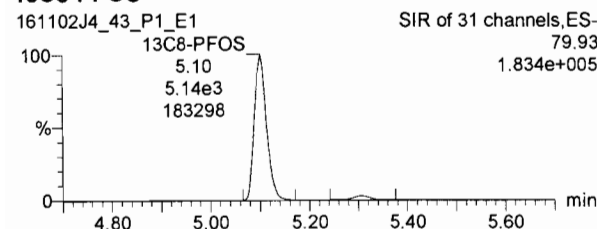
PFDA



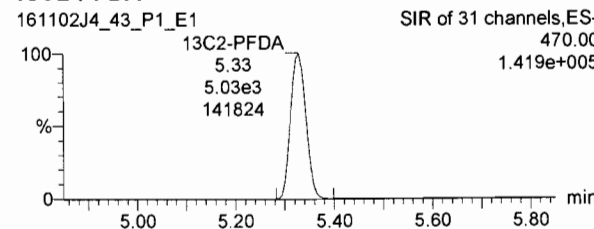
8:2 FTS



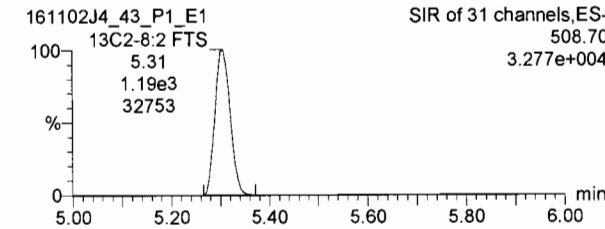
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

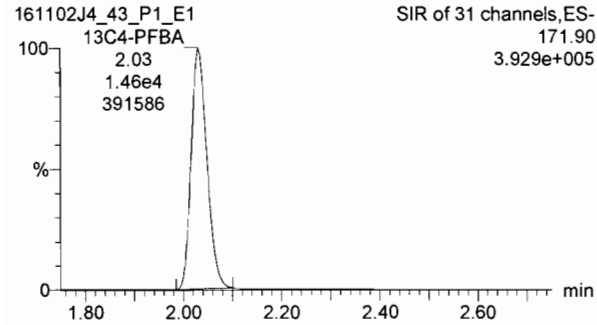


Dataset: U:\Q2.PRO\Results\161102J4\161102J4_43.qld

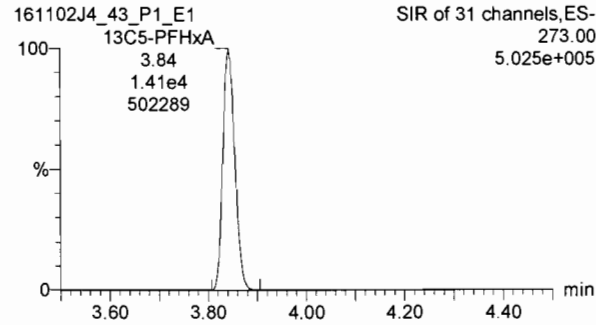
Last Altered: Thursday, November 03, 2016 14:24:45 Pacific Daylight Time
Printed: Thursday, November 03, 2016 14:25:30 Pacific Daylight Time

Name: 161102J4_43.wiff, Date: 03-Nov-2016, Time: 04:32:03, ID: ST161102J4-3 PFC C3.5 16K0105, Description: PFC C3.5 16K0102 A

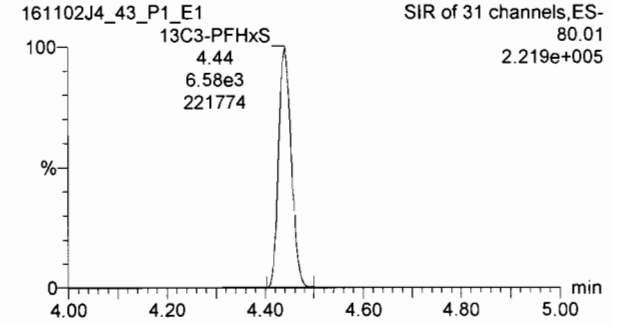
13C4-PFBA



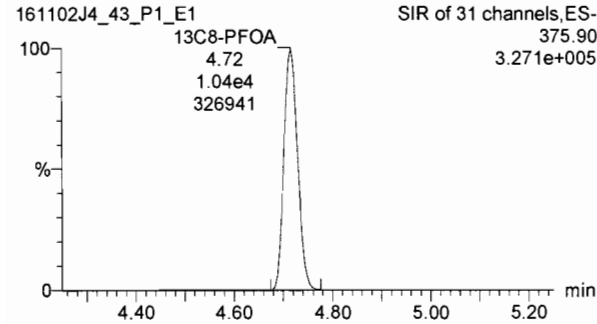
13C5-PFHxA



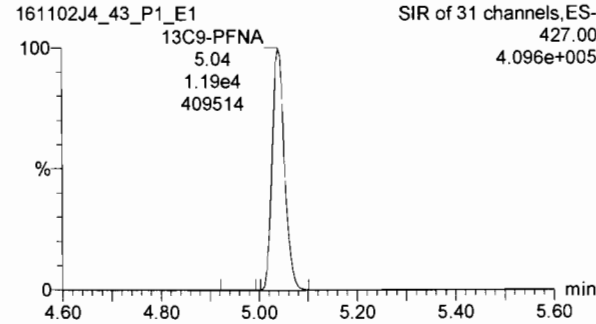
13C3-PFHxS



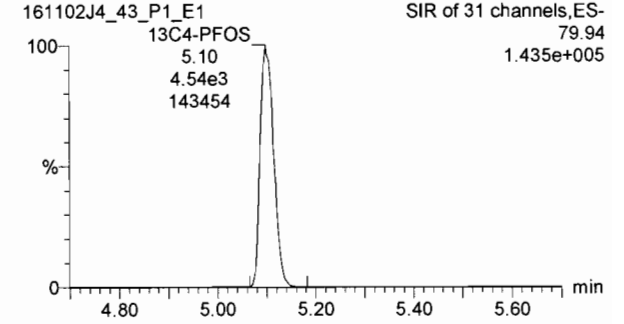
13C8-PFOA



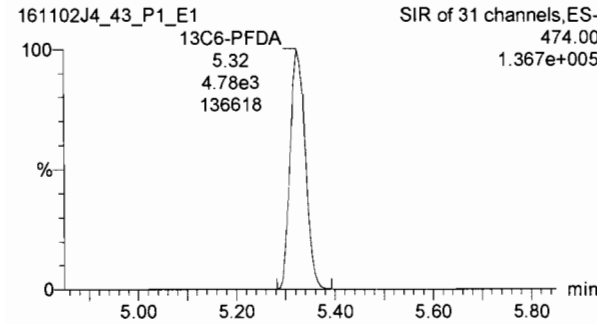
13C9-PFNA



13C4-PFOS



13C6-PFDA



Dataset: U:\Q2.PRO\Results\161104J3\161104J3_02.qld

Last Altered: Monday, November 07, 2016 10:35:26 Pacific Standard Time
Printed: Monday, November 07, 2016 10:36:10 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

Name: 161104J3_02.wiff, Date: 04-Nov-2016, Time: 15:36:19, ID: ST161104J3-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	168.90	3.14e4	1.58e4		1.000	2.07	23.8	95.2
2	2 PFPeA	218.90	3.18e4	1.86e4		1.000	3.20	23.8	95.0
3	3 PFBS	79.90	1.69e4	1.10e4		1.000	3.48	24.2	96.9
4	4 PFHxA	268.90	2.84e4	7.44e3		1.000	3.86	23.7	94.9
5	5 PFHpA	318.90	2.52e4	1.59e4		1.000	4.35	22.9	91.5
6	6 PFHxS	79.91	1.43e4	2.36e3		1.000	4.46	24.1	96.5
7	7 6:2 FTS	406.90	7.34e3	3.91e3		1.000	4.69	23.8	95.2
8	8 PFOA	368.90	2.86e4	1.33e4		1.000	4.73	22.4	89.5
9	9 PFNA	419.00	1.82e4	1.29e4		1.000	5.06	20.8	83.4
10	10 PFOS	79.92	1.17e4	5.48e3		1.000	5.11	22.0	87.8
11	11 PFDA	469.00	7.90e3	4.99e3		1.000	5.34	20.7	82.8
12	12 8:2 FTS	506.90	1.76e3	1.03e3		1.000	5.31	22.1	88.4
13	13 13C3-PFBA	172.00	1.58e4	1.63e4	0.870	1.000	2.07	13.9	111.3
14	14 13C3-PFPeA	221.90	1.86e4	1.76e4	0.937	1.000	3.20	14.1	112.9
15	15 13C3-PFBS	79.95	1.10e4	1.76e4	0.549	1.000	3.48	14.2	113.9
16	16 13C2-PFHxA	269.90	7.44e3	1.76e4	0.897	1.000	3.86	5.90	117.9
17	17 13C4-PFHpA	321.90	1.59e4	1.76e4	0.794	1.000	4.35	14.2	113.9
18	18 18O2-PFHxS	102.90	2.36e3	7.96e3	0.284	1.000	4.46	13.0	104.3
19	19 13C2-6:2 FTS	408.90	3.91e3	1.32e4	0.280	1.000	4.68	13.2	105.9
20	20 13C2-PFOA	369.90	1.33e4	1.32e4	0.809	1.000	4.73	15.6	124.9
21	21 13C5-PFNA	422.90	1.29e4	1.19e4	1.020	1.000	5.05	13.3	106.8
22	22 13C8-PFOS	79.93	5.48e3	4.90e3	0.947	1.000	5.11	14.7	117.9
23	23 13C2-PFDA	470.00	4.99e3	4.59e3	0.881	1.000	5.34	15.4	123.3
24	24 13C2-8:2 FTS	508.70	1.03e3	4.59e3	0.251	1.000	5.31	11.2	89.7
25	25 13C4-PFBA	171.90	1.63e4	1.63e4	1.000	1.000	2.07	12.5	100.0
26	26 13C5-PFHxA	273.00	1.76e4	1.76e4	1.000	1.000	3.86	12.5	100.0
27	27 13C3-PFHxS	80.01	7.96e3	7.96e3	1.000	1.000	4.46	12.5	100.0
28	28 13C8-PFOA	375.90	1.32e4	1.32e4	1.000	1.000	4.73	12.5	100.0
29	29 13C4-PFOS	79.94	4.90e3	4.90e3	1.000	1.000	5.11	12.5	100.0
30	30 13C9-PFNA	427.00	1.19e4	1.19e4	1.000	1.000	5.05	12.5	100.0
31	31 13C6-PFDA	474.00	4.59e3	4.59e3	1.000	1.000	5.34	12.5	100.0

75-125
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 PW 11/7/16
 75 → 60-150
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 40-150
 60-150
 50-150
 60-150
 ↓
 40-150

Dataset: U:\Q2.PRO\Results\161104J3\161104J3_02.qld

Last Altered: Monday, November 07, 2016 10:35:26 Pacific Standard Time

Printed: Monday, November 07, 2016 10:36:10 Pacific Standard Time

Name: 161104J3_02.wiff, Date: 04-Nov-2016, Time: 15:36:19, ID: ST161104J3-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 Total PFBS	79.90		1.10e4		1.000		24.2	
33	33 Total PFHxS	79.91		2.36e3		1.000		24.1	
34	34 Total PFOA	368.90		1.33e4		1.000		22.4	
35	35 Total PFOS	79.92		5.48e3		1.000		22.1	

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161104J3_01	11/4/2016 15:24:04	IPA	IPA
2	161104J3_02	11/4/2016 15:36:19	ST161104J3-1 PFC C3.5 16K0105	PFC C3.5 16K0105 A
3	161104J3_03	11/4/2016 15:48:33	IPA	IPA
4	161104J3_04	11/4/2016 16:00:49	1601356-12@5x	AFFF-FFTA-MW-46D2-102116
5	161104J3_05	11/4/2016 16:13:04	1601370-02@40x	OW11-MW9P-1016
6	161104J3_06	11/4/2016 16:25:17	1601358-02@40x	AFFF-FFTA-MW-110I-102016
7	161104J3_07	11/4/2016 16:37:30	B6K0013-MS1@5x	Matrix Spike
8	161104J3_08	11/4/2016 16:49:44	B6K0013-MSD1@5x	Matrix Spike Dup
9	161104J3_09	11/4/2016 17:01:58	IPA	IPA
10	161104J3_10	11/4/2016 17:14:13	ST161104J3-2 PFC C3.5 16K0105	PFC C3.5 16K0105 A
11	161104J3_11	11/4/2016 17:26:28	IPA	IPA

LC Calibration Standards Review Checklist Q2

Calibration ID:	L M H	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manaul Integrations	
<u>ST161104J3-1</u>	L <input checked="" type="checkbox"/> M <input checked="" type="checkbox"/> H <input checked="" type="checkbox"/>	<u>NA</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
<u>↓ -2</u>	L <input checked="" type="checkbox"/> M <input checked="" type="checkbox"/> H <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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_____	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Full Mass Cal. Date: 10/14/16

Reviewed By: AC 11/7/16
Initials/Date

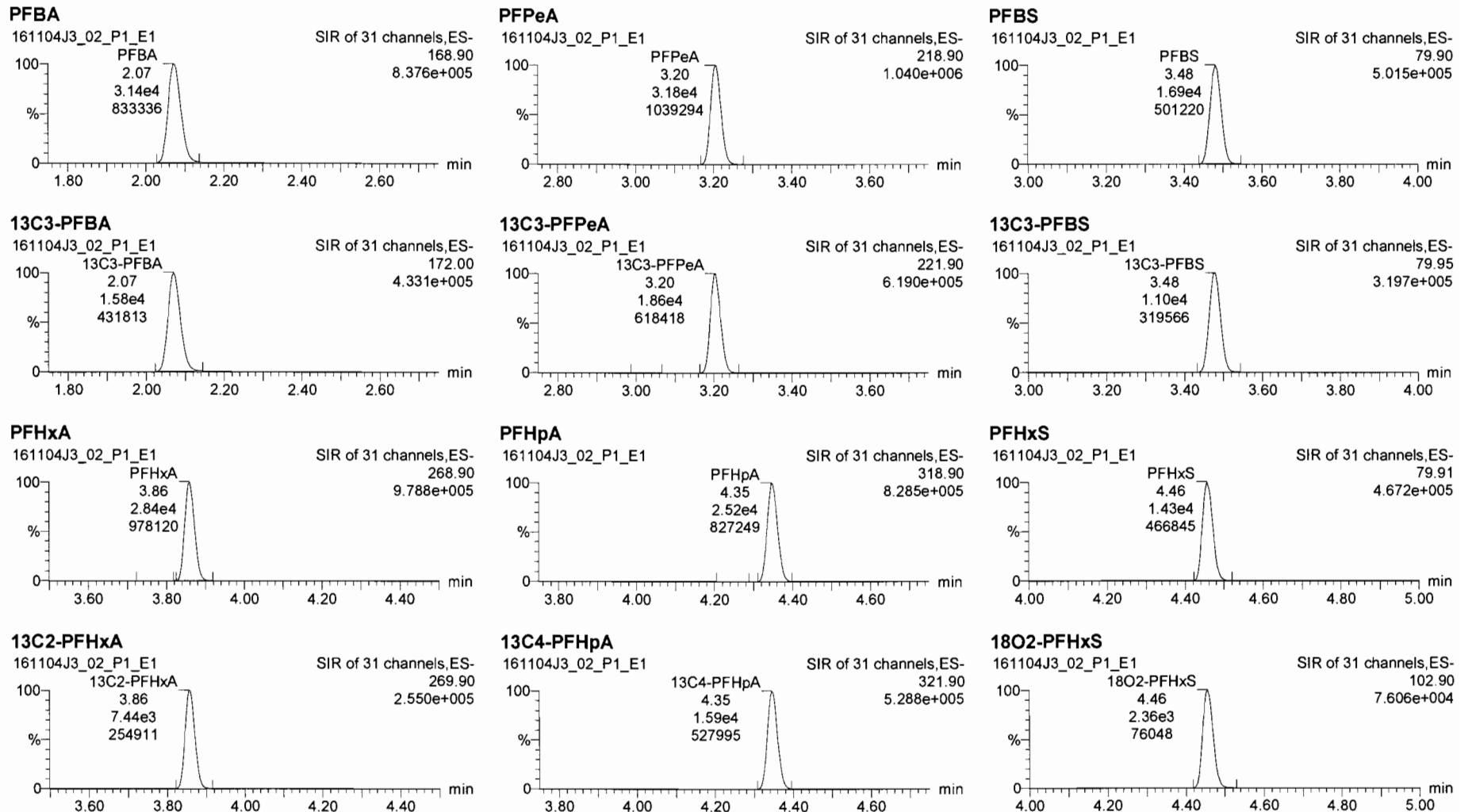
Comments:
PFC List 18A

Dataset: U:\Q2.PRO\Results\161104J3\161104J3_02.qld

Last Altered: Monday, November 07, 2016 10:35:26 Pacific Standard Time
Printed: Monday, November 07, 2016 10:36:25 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

Name: 161104J3_02.wiff, Date: 04-Nov-2016, Time: 15:36:19, ID: ST161104J3-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

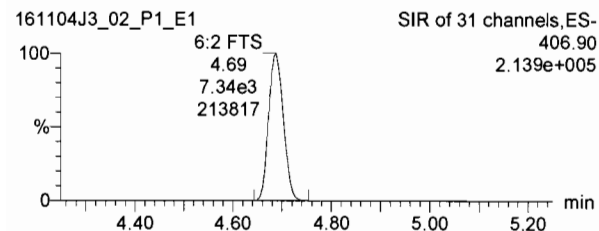


Dataset: U:\Q2.PRO\Results\161104J3\161104J3_02.qld

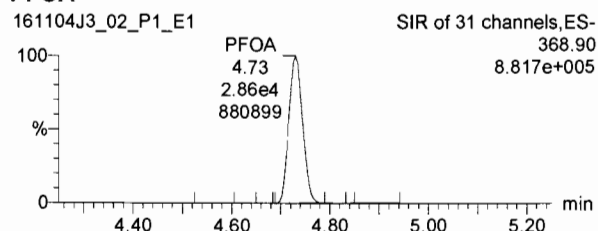
Last Altered: Monday, November 07, 2016 10:35:26 Pacific Standard Time
Printed: Monday, November 07, 2016 10:36:25 Pacific Standard Time

Name: 161104J3_02.wiff, Date: 04-Nov-2016, Time: 15:36:19, ID: ST161104J3-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

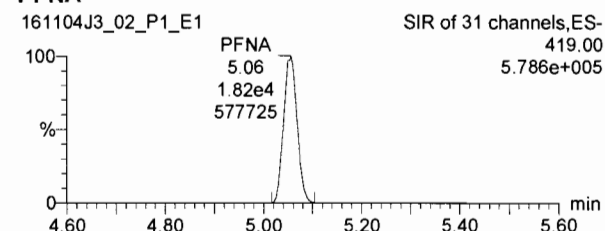
6:2 FTS



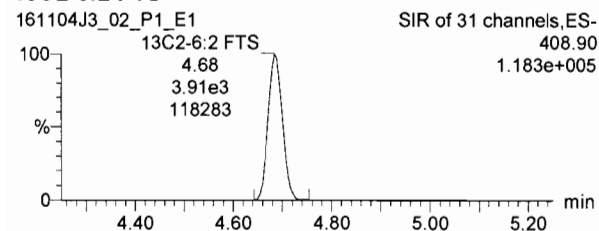
PFOA



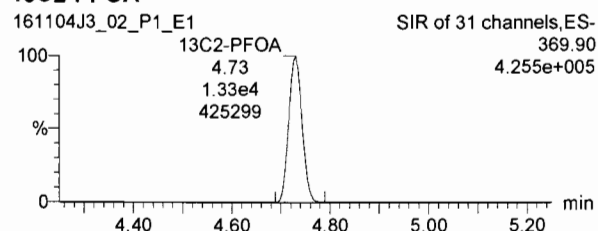
PFNA



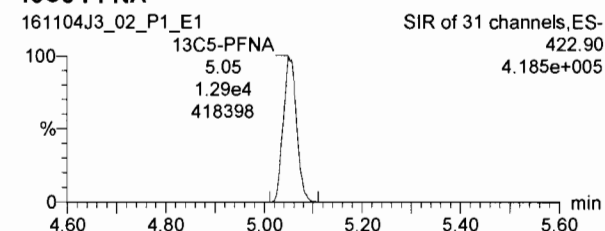
13C2-6:2 FTS



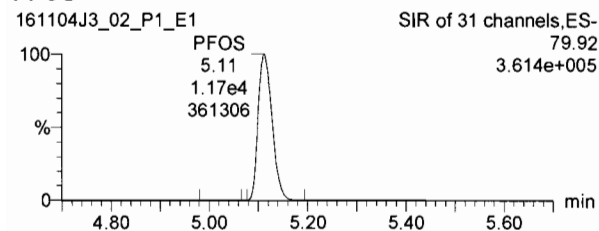
13C2-PFOA



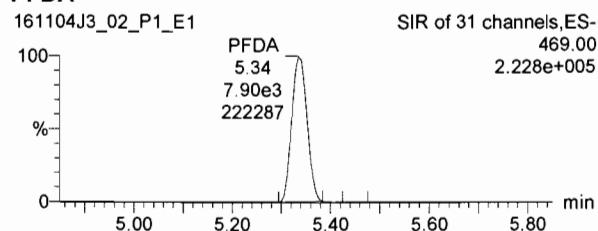
13C5-PFNA



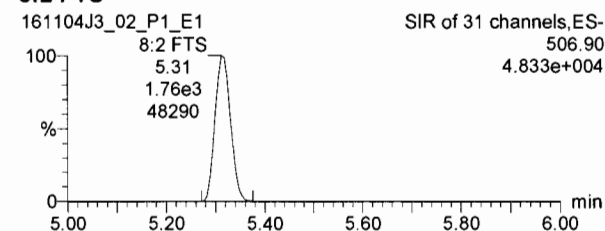
PFOS



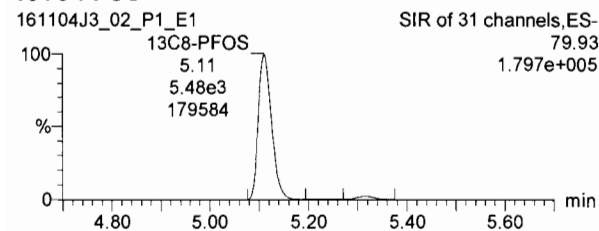
PFDA



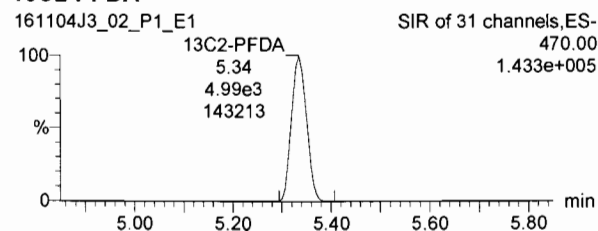
8:2 FTS



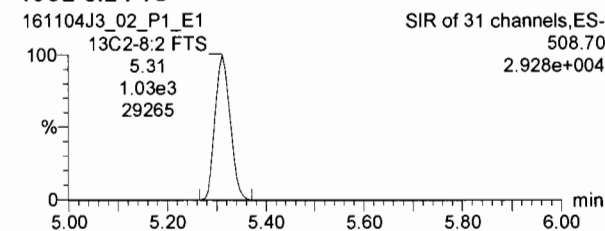
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



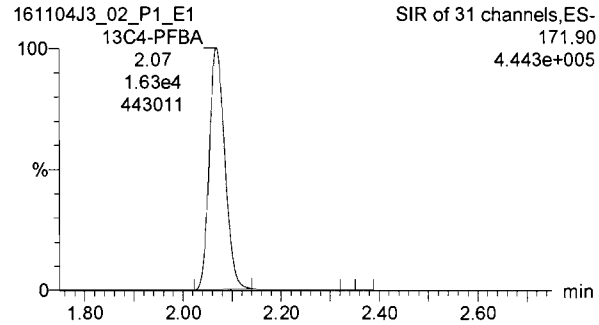
Dataset: U:\Q2.PRO\Results\161104J3\161104J3_02.qld

Last Altered: Monday, November 07, 2016 10:35:26 Pacific Standard Time

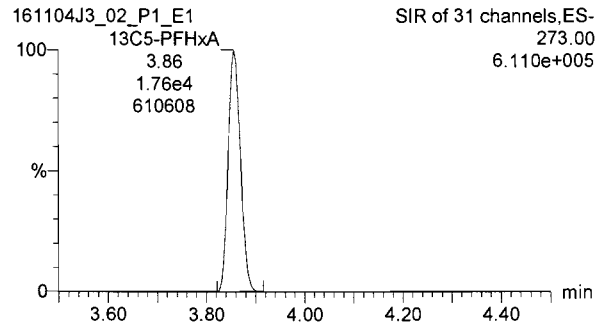
Printed: Monday, November 07, 2016 10:36:25 Pacific Standard Time

Name: 161104J3_02.wiff, Date: 04-Nov-2016, Time: 15:36:19, ID: ST161104J3-1 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

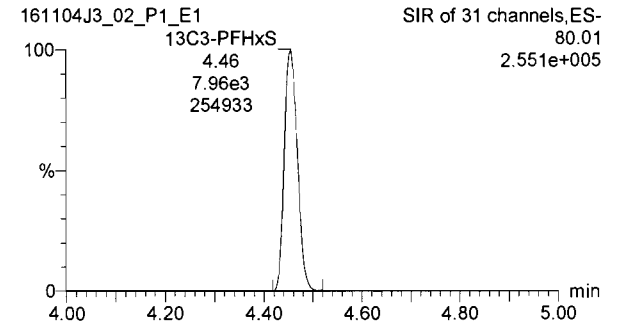
13C4-PFBA



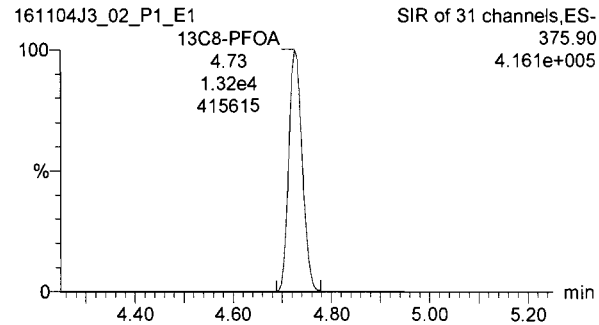
13C5-PFHxA



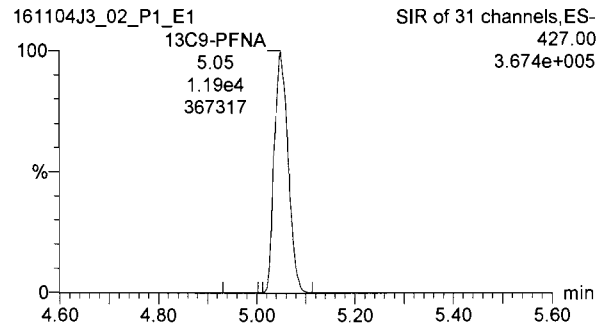
13C3-PFHxS



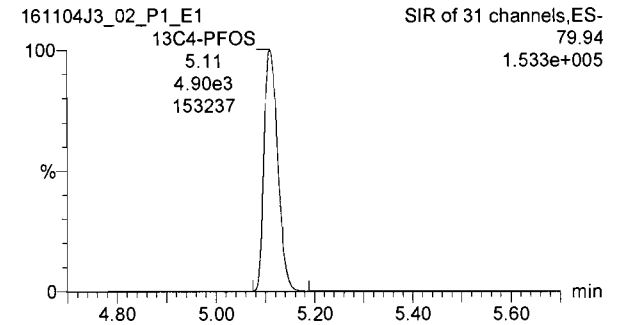
13C8-PFOA



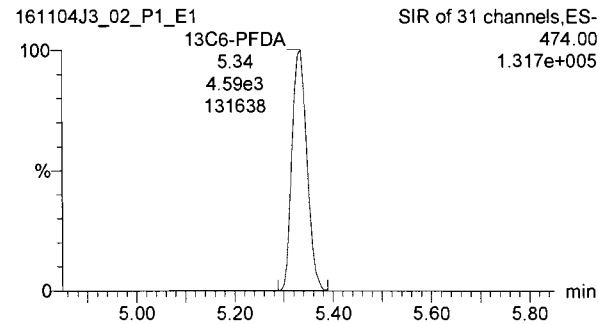
13C9-PFNA



13C4-PFOS



13C6-PFDA



Dataset: U:\Q2.PRO\Results\161104J3\161104J3_10.qld

Last Altered: Monday, November 07, 2016 10:36:50 Pacific Standard Time
Printed: Monday, November 07, 2016 10:37:39 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

Name: 161104J3_10.wiff, Date: 04-Nov-2016, Time: 17:14:13, ID: ST161104J3-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	168.90	3.16e4	1.57e4		1.000	2.08	24.0	96.1
2	2 PFPeA	218.90	3.19e4	1.84e4		1.000	3.21	24.1	96.2
3	3 PFBS	79.90	1.67e4	1.06e4		1.000	3.49	24.9	99.4
4	4 PFHxA	268.90	2.66e4	7.07e3		1.000	3.86	23.4	93.4
5	5 PFHpA	318.90	2.51e4	1.56e4		1.000	4.35	23.2	92.6
6	6 PFHxS	79.91	1.33e4	2.42e3		1.000	4.46	21.8	87.3
7	7 6:2 FTS	406.90	7.60e3	4.01e3		1.000	4.69	24.0	96.0
8	8 PFOA	368.90	2.81e4	1.27e4		1.000	4.74	23.0	92.0
9	9 PFNA	419.00	1.74e4	1.12e4		1.000	5.06	22.9	91.7
10	10 PFOS	79.92	1.16e4	5.01e3		1.000	5.12	23.8	95.2
11	11 PFDA	469.00	7.41e3	4.50e3		1.000	5.34	21.5	86.1
12	12 8:2 FTS	506.90	1.57e3	1.00e3		1.000	5.32	20.3	81.1
13	13 13C3-PFBA	172.00	1.57e4	1.61e4	0.870	1.000	2.08	14.0	112.4
14	14 13C3-PFPeA	221.90	1.84e4	1.72e4	0.937	1.000	3.21	14.3	114.1
15	15 13C3-PFBS	79.95	1.06e4	1.72e4	0.549	1.000	3.49	13.9	111.4
16	16 13C2-PFHxA	269.90	7.07e3	1.72e4	0.897	1.000	3.86	5.71	114.3
17	17 13C4-PFHpA	321.90	1.56e4	1.72e4	0.794	1.000	4.35	14.2	113.9
18	18 18O2-PFHxS	102.90	2.42e3	7.63e3	0.284	1.000	4.46	14.0	111.9
19	19 13C2-6:2 FTS	408.90	4.01e3	1.31e4	0.280	1.000	4.69	13.7	109.5
20	20 13C2-PFOA	369.90	1.27e4	1.31e4	0.809	1.000	4.74	15.0	120.2
21	21 13C5-PFNA	422.90	1.12e4	9.81e3	1.020	1.000	5.06	14.0	112.2
22	22 13C8-PFOS	79.93	5.01e3	4.82e3	0.947	1.000	5.12	13.7	109.7
23	23 13C2-PFDA	470.00	4.50e3	4.18e3	0.881	1.000	5.34	15.3	122.3
24	24 13C2-8:2 FTS	508.70	1.00e3	4.18e3	0.251	1.000	5.31	11.9	95.5
25	25 13C4-PFBA	171.90	1.61e4	1.61e4	1.000	1.000	2.08	12.5	100.0
26	26 13C5-PFHxA	273.00	1.72e4	1.72e4	1.000	1.000	3.86	12.5	100.0
27	27 13C3-PFHxS	80.01	7.63e3	7.63e3	1.000	1.000	4.46	12.5	100.0
28	28 13C8-PFOA	375.90	1.31e4	1.31e4	1.000	1.000	4.74	12.5	100.0
29	29 13C4-PFOS	79.94	4.82e3	4.82e3	1.000	1.000	5.12	12.5	100.0
30	30 13C9-PFNA	427.00	9.81e3	9.81e3	1.000	1.000	5.06	12.5	100.0
31	31 13C6-PFDA	474.00	4.18e3	4.18e3	1.000	1.000	5.34	12.5	100.0

75-125

60-150

40-150

60-150

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40-150

PL
11/7/16

Dataset: U:\Q2.PRO\Results\161104J3\161104J3_10.qld

Last Altered: Monday, November 07, 2016 10:36:50 Pacific Standard Time

Printed: Monday, November 07, 2016 10:37:39 Pacific Standard Time

Name: 161104J3_10.wiff, Date: 04-Nov-2016, Time: 17:14:13, ID: ST161104J3-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

	# Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 Total PFBS	79.90		1.06e4		1.000		24.9	
33	33 Total PFHxS	79.91		2.42e3		1.000		21.8	
34	34 Total PFOA	368.90		1.27e4		1.000		23.0	
35	35 Total PFOS	79.92		5.01e3		1.000		24.0	

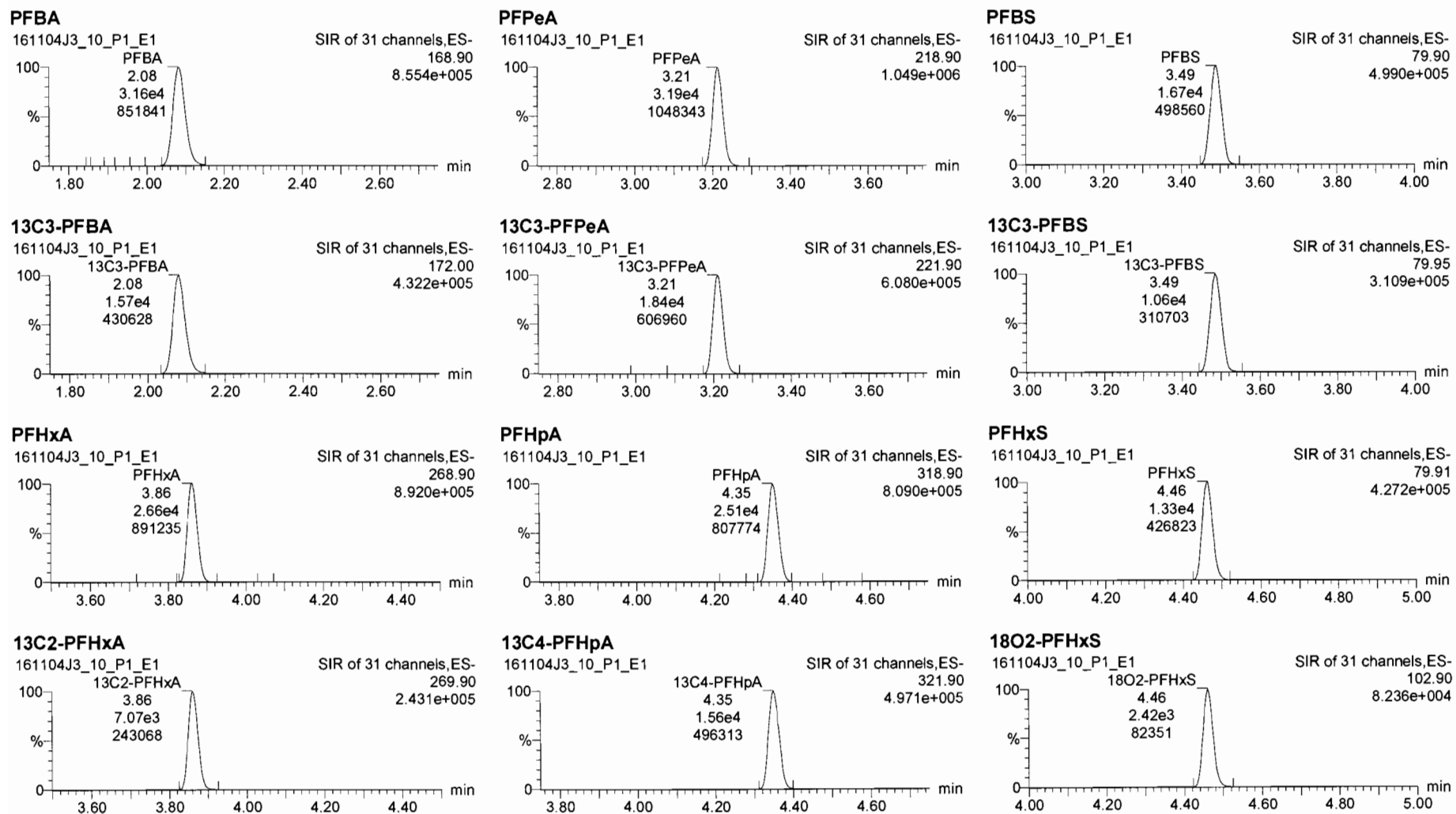
	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161104J3_01	11/4/2016 15:24:04	IPA	IPA
2	161104J3_02	11/4/2016 15:36:19	ST161104J3-1 PFC C3.5 16K0105	PFC C3.5 16K0105 A
3	161104J3_03	11/4/2016 15:48:33	IPA	IPA
4	161104J3_04	11/4/2016 16:00:49	1601356-12@5x	AFFF-FFTA-MW-46D2-102116
5	161104J3_05	11/4/2016 16:13:04	1601370-02@40x	OW11-MW9P-1016
6	161104J3_06	11/4/2016 16:25:17	1601358-02@40x	AFFF-FFTA-MW-110I-102016
7	161104J3_07	11/4/2016 16:37:30	B6K0013-MS1@5x	Matrix Spike
8	161104J3_08	11/4/2016 16:49:44	B6K0013-MSD1@5x	Matrix Spike Dup
9	161104J3_09	11/4/2016 17:01:58	IPA	IPA
10	161104J3_10	11/4/2016 17:14:13	ST161104J3-2 PFC C3.5 16K0105	PFC C3.5 16K0105 A
11	161104J3_11	11/4/2016 17:26:28	IPA	IPA

Dataset: U:\Q2.PRO\Results\161104J3\161104J3_10.qld

Last Altered: Monday, November 07, 2016 10:36:50 Pacific Standard Time
Printed: Monday, November 07, 2016 10:37:28 Pacific Standard Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 04 Nov 2016 07:40:28
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 09:29:03

Name: 161104J3_10.wiff, Date: 04-Nov-2016, Time: 17:14:13, ID: ST161104J3-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

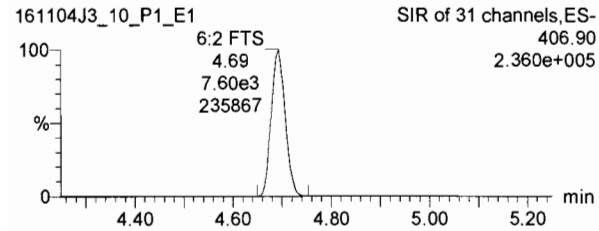


Dataset: U:\Q2.PRO\Results\161104J3\161104J3_10.qld

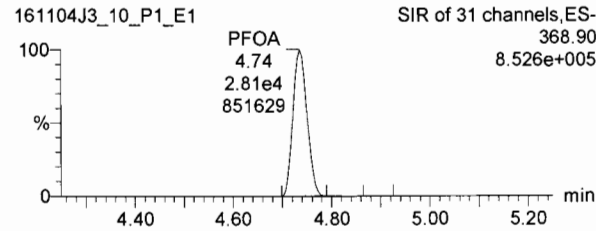
Last Altered: Monday, November 07, 2016 10:36:50 Pacific Standard Time
Printed: Monday, November 07, 2016 10:37:28 Pacific Standard Time

Name: 161104J3_10.wiff, Date: 04-Nov-2016, Time: 17:14:13, ID: ST161104J3-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

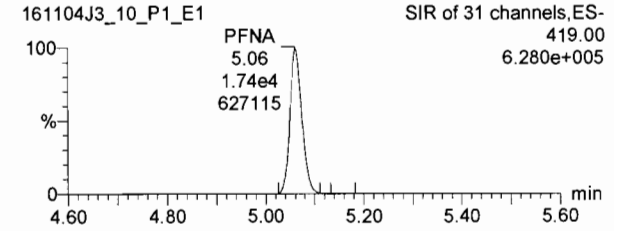
6:2 FTS



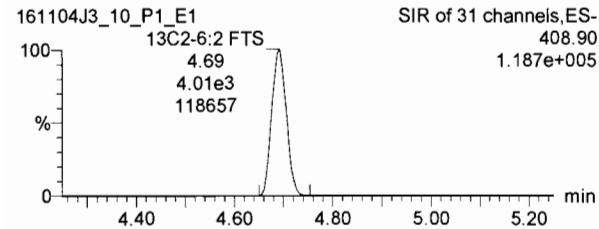
PFOA



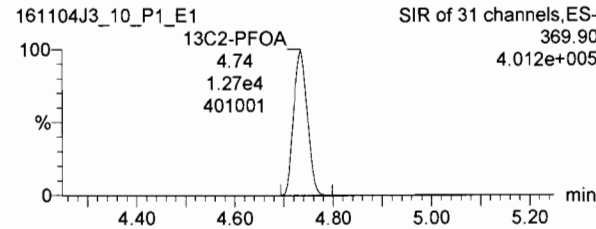
PFNA



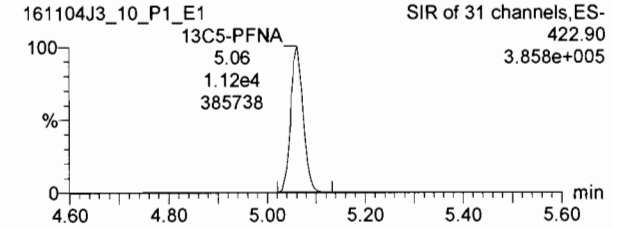
13C2-6:2 FTS



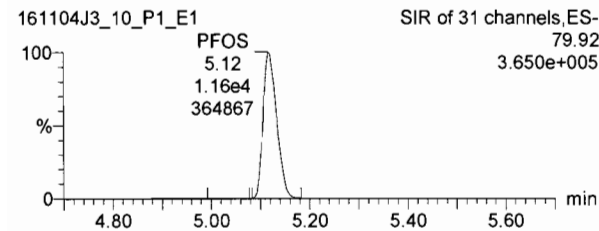
13C2-PFOA



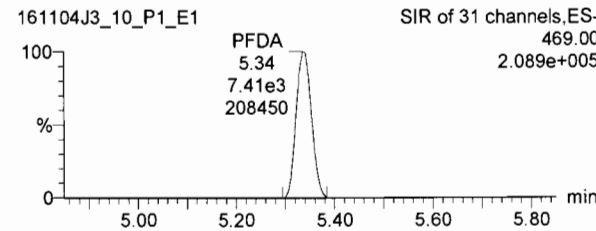
13C5-PFNA



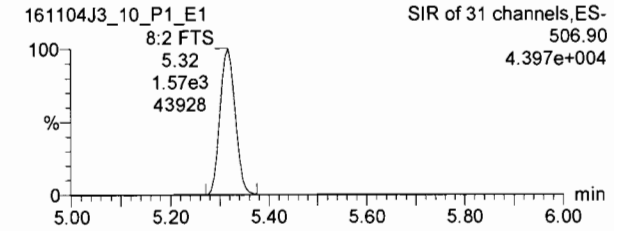
PFOS



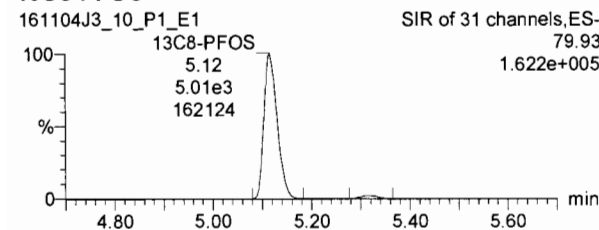
PFDA



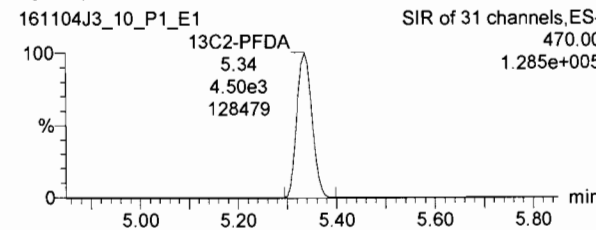
8:2 FTS



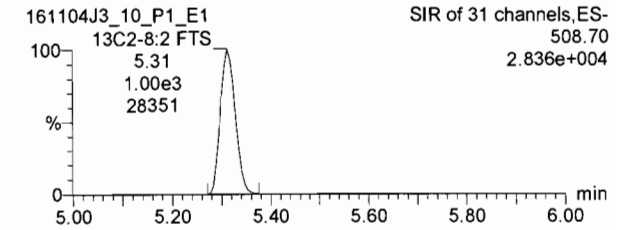
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



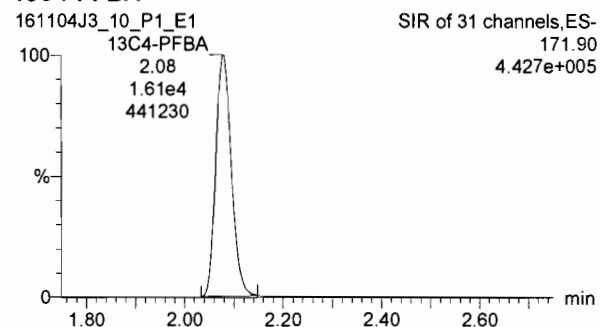
Dataset: U:\Q2.PRO\Results\161104J3\161104J3_10.qld

Last Altered: Monday, November 07, 2016 10:36:50 Pacific Standard Time

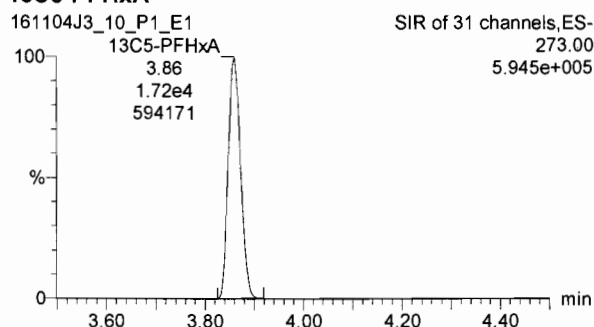
Printed: Monday, November 07, 2016 10:37:28 Pacific Standard Time

Name: 161104J3_10.wiff, Date: 04-Nov-2016, Time: 17:14:13, ID: ST161104J3-2 PFC C3.5 16K0105, Description: PFC C3.5 16K0105 A

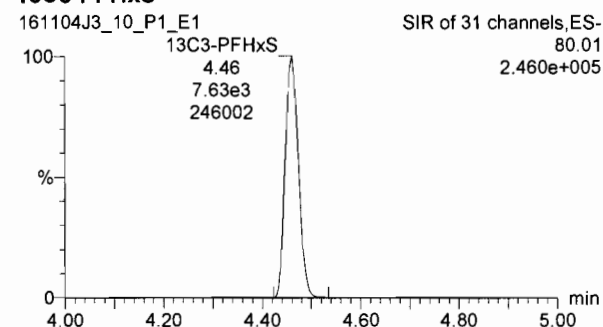
13C4-PFBA



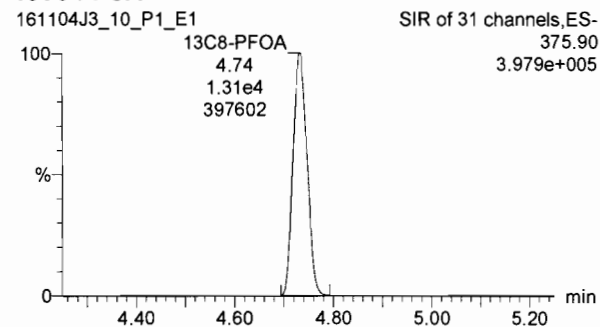
13C5-PFHxA



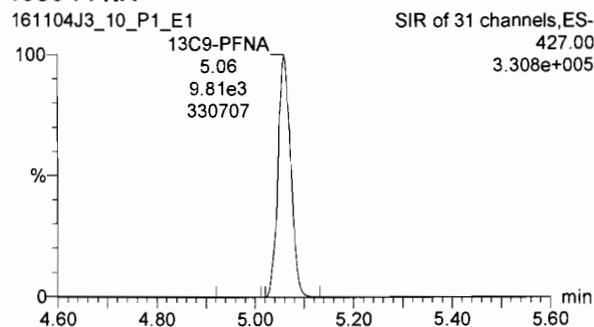
13C3-PFHxS



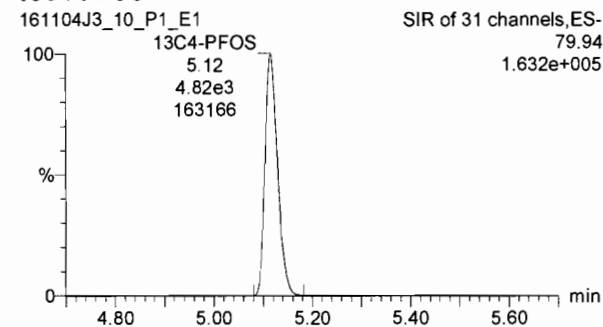
13C8-PFOA



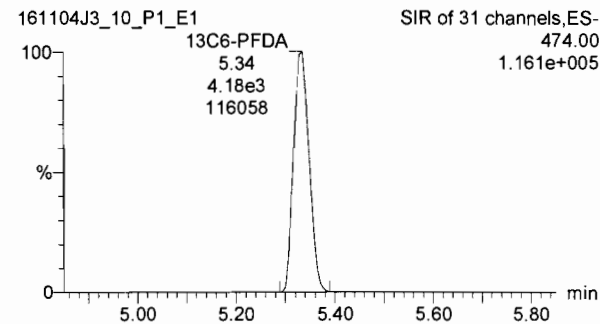
13C9-PFNA



13C4-PFOS



13C6-PFDA



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-18.qld

Last Altered: Wednesday, November 02, 2016 11:01:56 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:02:20 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161101G1_18, Date: 01-Nov-2016, Time: 17:34:14, ID: ST161101G1-2 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBA	213.1 > 168.8	3.03e4	2.02e4	1.000	1.000	1.79	27.6	110.4
2	2 PFPeA	263.1 > 218.9	2.59e4	1.54e4	1.000	1.000	2.72	25.9	103.7
3	3 PFBS	299 > 79.7	1.55e4	5.70e3	1.000	1.000	2.98	24.6	98.3
4	4 PFHxA	313.2 > 268.9	2.28e4	7.59e3	1.000	1.000	3.34	25.7	102.8
5	5 PFHpA	363 > 318.9	6.11e4	2.13e4	1.000	1.000	3.84	25.3	101.2
6	6 PFHxS	398.9 > 79.6	1.84e4	6.08e3	1.000	1.000	3.97	25.7	102.6
7	7 6:2 FTS	427.1 > 407	4.97e3	4.52e3	1.000	1.000	4.21	22.8	91.1
8	8 PFOA	413 > 368.7	6.53e4	3.37e4	1.000	1.000	4.27	26.6	106.2
9	9 PFOS	499 > 79.9	1.06e4	6.27e3	1.000	1.000	4.67	24.6	98.4
10	10 PFNA	463 > 418.8	5.20e4	1.30e4	1.000	1.000	4.61	27.3	109.2
11	11 PFDA	513 > 468.8	1.39e4	9.26e3	1.000	1.000	4.90	29.3	117.2
12	12 8:2 FTS	527 > 506.9	4.04e3	2.99e3	1.000	1.000	4.87	29.5	118.1
13	13 13C3-PFBA	216.1 > 171.8	2.02e4	2.22e4	0.960	1.000	1.79	11.8	94.7
14	14 13C3-PFPeA	266 > 221.8	1.54e4	2.95e4	0.526	1.000	2.72	12.4	99.1
15	15 13C3-PFBS	302.0 > 98.8	5.70e3	2.95e4	0.209	1.000	2.98	11.6	92.9
16	16 13C2-PFHxA	315 > 269.8	7.59e3	2.95e4	0.655	1.000	3.34	4.92	98.4
17	17 13C4-PFHpA	367.2 > 321.8	2.13e4	1.14e4	1.904	1.000	3.84	12.3	98.2
18	18 18O2-PFHxS	403 > 102.6	6.08e3	1.14e4	0.580	1.000	3.97	11.5	92.1
19	19 13C2-6:2 FTS	429.1 > 408.9	4.52e3	5.14e3	0.896	1.000	4.21	12.3	98.1
20	20 13C2-PFOA	414.9 > 369.7	3.37e4	1.48e4	2.326	1.000	4.27	12.3	98.3
21	21 13C8-PFOS	507.0 > 79.9	6.27e3	6.49e3	0.982	1.000	4.67	12.3	98.4
22	22 13C5-PFNA	468.2 > 422.9	1.30e4	1.26e4	1.038	1.000	4.61	12.5	99.7
23	23 13C2-PFDA	515.1 > 469.9	9.26e3	1.00e4	1.053	1.000	4.90	11.0	87.9
24	24 13C2-8:2 FTS	529.1 > 508.7	2.99e3	5.14e3	0.635	1.000	4.87	11.5	91.6
25	25 13C4-PFBA	217 > 171.8	2.22e4	2.22e4	1.000	1.000	1.79	12.5	100.0
26	26 13C2-4:2 FTS	329.2 > 308.9	5.14e3	5.14e3	1.000	1.000	3.26	12.5	100.0
27	27 13C5-PFHxA	318.0 > 272.9	2.95e4	2.95e4	1.000	1.000	3.34	12.5	100.0
28	28 13C3-PFHxS	401.9 > 79.9	1.14e4	1.14e4	1.000	1.000	3.97	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.48e4	1.48e4	1.000	1.000	4.27	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	6.49e3	6.49e3	1.000	1.000	4.67	12.5	100.0
31	31 13C9-PFNA	472.2 > 426.9	1.26e4	1.26e4	1.000	1.000	4.61	12.5	100.0

75-125
 ↓
 60-150
 ↓
 40-150
 60-150
 ↓
 50-150
 60-150
 40-150

AC
 11/2/16
 PW
 11/2/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-18.qld

Last Altered: Wednesday, November 02, 2016 11:01:56 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:02:20 Pacific Daylight Time

Name: 161101G1_18, Date: 01-Nov-2016, Time: 17:34:14, ID: ST161101G1-2 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
32	13C6-PFDA	519.1 > 473.7	1.00e4	1.00e4	1.000	1.000	4.90	12.5	100.0

Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 11:12:58 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:13:10 Pacific Daylight Time

Method: U:\G1.PROMethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161101G1_1	IPA	01-Nov-16	13:59:48
2	161101G1_2	ST161101G1-1 PFC CS3.5 16J2903	01-Nov-16	14:12:24
3	161101G1_3	IPA	01-Nov-16	14:24:59
4	161101G1_4	B6J0196-BS1 OPR 0.125	01-Nov-16	14:37:36
5	161101G1_5	IPA	01-Nov-16	14:50:12
6	161101G1_6	B6J0196-BLK1 Method Blank 0.125	01-Nov-16	15:02:50
7	161101G1_7	1601334-13@5X BERPXX064 0.125	01-Nov-16	15:15:27
8	161101G1_8	1601343-01@10X BERP05026 0.125	01-Nov-16	15:28:04
9	161101G1_9	1601348-05 FB-M06-02_161024 0.12991	01-Nov-16	15:40:41
10	161101G1_10	1601348-06 FB-M06-04_161024 0.1306	01-Nov-16	15:53:19
11	161101G1_11	1601348-07 FB-S6-MW06_161024 0.12927	01-Nov-16	16:05:57
12	161101G1_12	1601348-08 FB-S6-MW-07_161024 0.12836	01-Nov-16	16:18:37
13	161101G1_13	1601348-09 M06-02_161024 0.1292	01-Nov-16	16:31:12
14	161101G1_14	1601348-10 M06-04_161024 0.12616	01-Nov-16	16:43:48
15	161101G1_15	1601348-11 S6-MW-07_161024 0.13003	01-Nov-16	16:56:24
16	161101G1_16	1601348-12 SB02_161024 0.12085	01-Nov-16	17:09:00
17	161101G1_17	IPA	01-Nov-16	17:21:37
18	161101G1_18	ST161101G1-2 PFC CS3.5 16J2903	01-Nov-16	17:34:14
19	161101G1_19	IPA	01-Nov-16	17:46:50
20	161101G1_20	B6J0184-BS1 OPR 1	01-Nov-16	17:59:29
21	161101G1_21	B6K0001-BS1 OPR 0.125	01-Nov-16	18:12:07
22	161101G1_22	B6K0001-BSD1 LCS Dup 0.125	01-Nov-16	18:24:45
23	161101G1_23	IPA	01-Nov-16	18:37:24
24	161101G1_24	B6J0184-BLK1 Method Blank 1	01-Nov-16	18:50:00
25	161101G1_25	B6K0001-BLK1 Method Blank 0.125	01-Nov-16	19:02:36
26	161101G1_26	B6J0184-MS1 Matrix Spike 1.2	01-Nov-16	19:15:11
27	161101G1_27	B6J0184-MSD1 Matrix Spike Dup 1.19	01-Nov-16	19:27:47
28	161101G1_28	B6J0184-MS2 Matrix Spike 1.27	01-Nov-16	19:40:23
29	161101G1_29	B6J0184-MSD2 Matrix Spike Dup 1.24	01-Nov-16	19:53:00
30	161101G1_30	1601348-14 S6-MW06_161024 0.12934	01-Nov-16	20:05:37
31	161101G1_31	1601353-01 48 Hour 0.1254	01-Nov-16	20:18:16

Work Order 1601370

Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 11:12:58 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 11:13:10 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	161101G1_32	1601334-01 BERP03016 1.19	01-Nov-16	20:30:54
33	161101G1_33	1601334-02 BERP03017 1.1	01-Nov-16	20:43:30
34	161101G1_34	1601334-03 BERP03018 1.13	01-Nov-16	20:56:05
35	161101G1_35	1601334-04 BERP03094 1.13	01-Nov-16	21:08:40
36	161101G1_36	1601334-05 BERP03012 1.2	01-Nov-16	21:21:17
37	161101G1_37	1601334-06 BERP03092 1.1	01-Nov-16	21:33:54
38	161101G1_38	1601334-07 BERP03008 1.17	01-Nov-16	21:46:31
39	161101G1_39	1601334-08 BERP03007 1.19	01-Nov-16	21:59:09
40	161101G1_40	IPA	01-Nov-16	22:11:47
41	161101G1_41	ST161101G1-3 PFC CS3.5 16J2903	01-Nov-16	22:24:24
42	161101G1_42	IPA	01-Nov-16	22:36:59
43	161101G1_43	1601334-09 BERP03020 1.11	01-Nov-16	22:49:36
44	161101G1_44	1601334-11 BERP03019 1.17	01-Nov-16	23:02:11
45	161101G1_45	1601334-12 BERP03021 1.23	01-Nov-16	23:14:46
46	161101G1_46	1601338-02 RES-NRES024-FRB-102016 0.125	01-Nov-16	23:27:21
47	161101G1_47	1601338-04 RES-NRES034-FRB-102016 0.125	01-Nov-16	23:39:59
48	161101G1_48	1601370-01 OW11-MW9-1016 0.125	01-Nov-16	23:52:38
49	161101G1_49	1601370-02 OW11-MW9P-1016 0.125	02-Nov-16	00:05:14
50	161101G1_50	1601370-03 OW11-MW8-1016 0.125	02-Nov-16	00:17:49
51	161101G1_51	1601370-04 OW11-MW1-1016 0.125	02-Nov-16	00:30:24
52	161101G1_52	1601370-05 OW11-MW7-1016 0.125	02-Nov-16	00:43:01
53	161101G1_53	IPA	02-Nov-16	00:55:37
54	161101G1_54	ST161101G1-4 PFC CS3.5 16J2903	02-Nov-16	01:08:13
55	161101G1_55	IPA	02-Nov-16	01:20:49

Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 10:56:11 Pacific Daylight Time

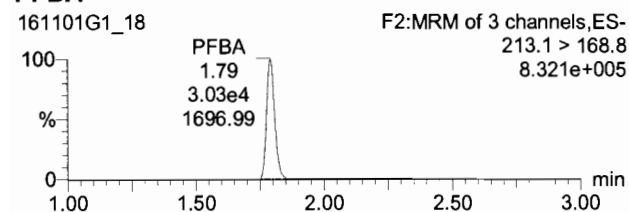
Printed: Wednesday, November 02, 2016 10:56:14 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

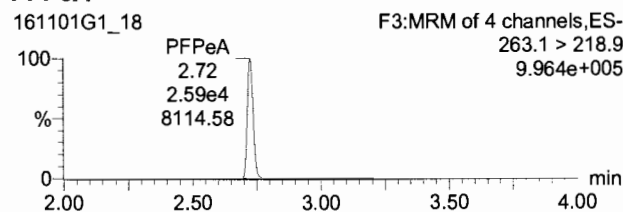
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161101G1_18, Date: 01-Nov-2016, Time: 17:34:14, ID: ST161101G1-2 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

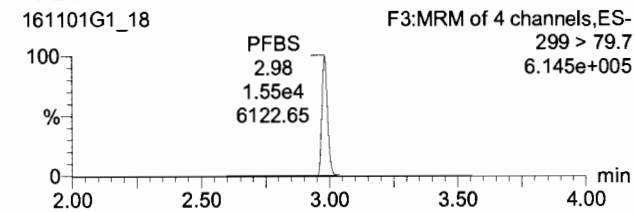
PFBA



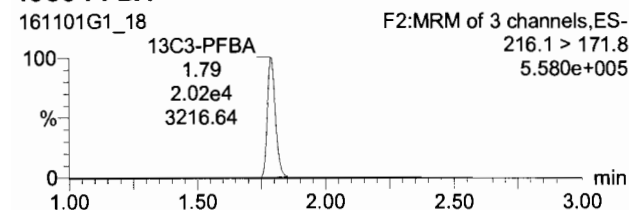
PFPeA



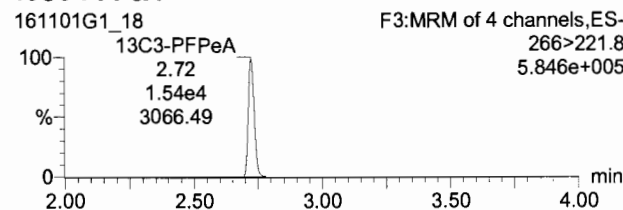
PFBS



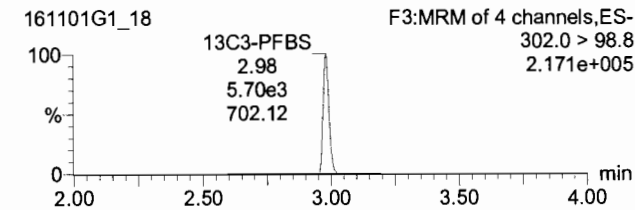
13C3-PFBA



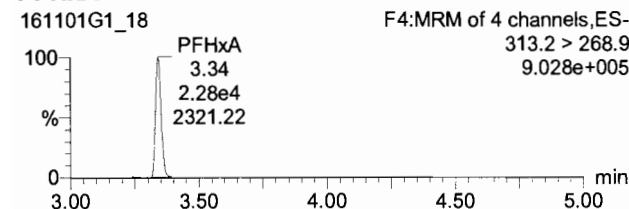
13C3-PFPeA



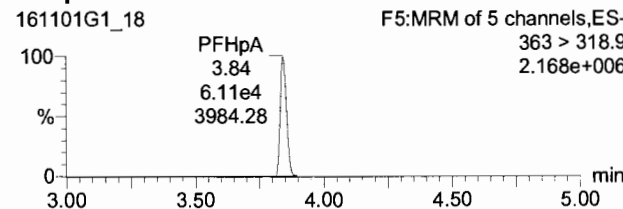
13C3-PFBS



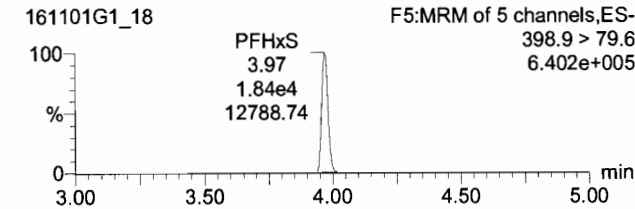
PFHxA



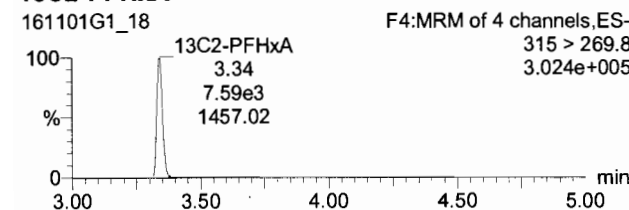
PFHpA



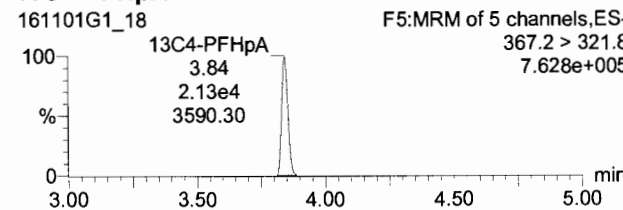
PFHxS



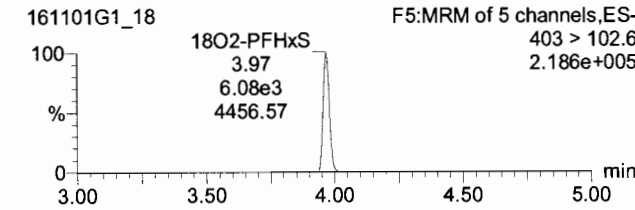
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

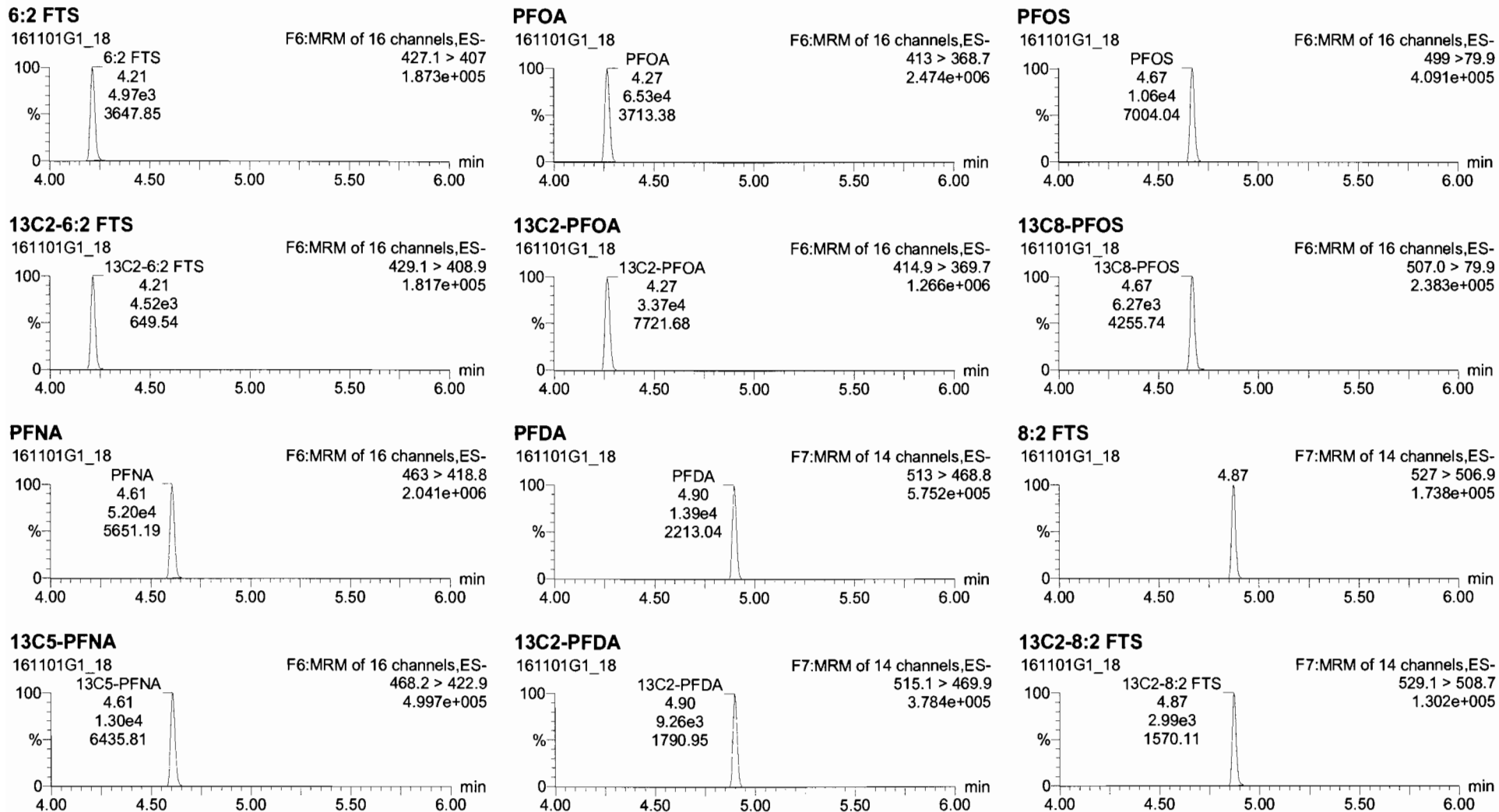


Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 10:56:11 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:56:14 Pacific Daylight Time

Name: 161101G1_18, Date: 01-Nov-2016, Time: 17:34:14, ID: ST161101G1-2 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

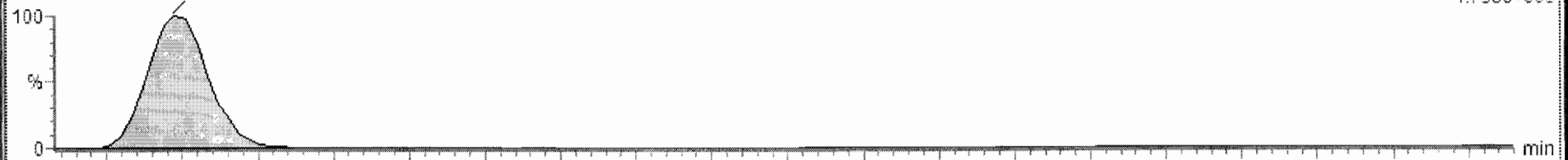




161101G1_18 - ST161101G1-2 PFC CS3.5 16J2903 - PFC CS3.5 16J2903 A

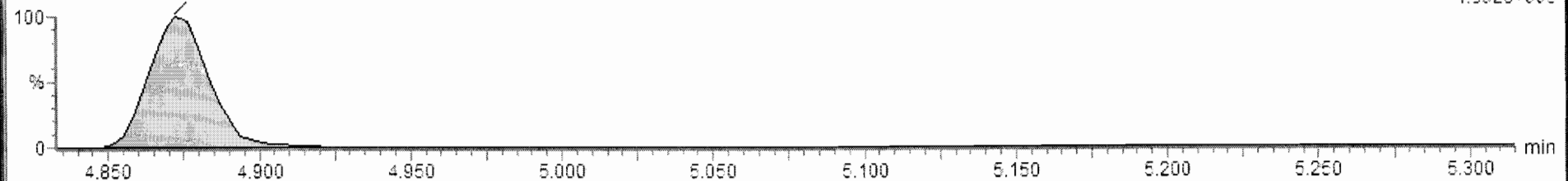
Name	Trace	Area	RRF	WtVol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
1	PFBA	213.1 > 188.8	3.03e4	1.000	1.79	1.79	27.6	YES	110.4	0.0436904
2	PFPeA	283.1 > 218.9	2.59e4	1.000	2.72	2.72	25.9	YES	103.7	0.0301775
3	PFBS	299 > 79.7	1.55e4	1.000	2.98	2.98	24.6	YES	98.3	0.0762925
4	PFHxA	313.2 > 268.9	2.28e4	1.000	3.34	3.34	25.7	YES	102.8	0.0081479
5	PFHpA	363 > 318.9	6.11e4	1.000	3.84	3.84	25.3	YES	101.2	0.0368708
6	PFHxS	398.9 > 79.6	1.84e4	1.000	3.97	3.97	25.7	YES	102.6	0.0176642
7	8:2 FTS	427.1 > 407	4.97e3	1.000	4.21	4.21	22.8	YES	91.1	0.0496720
8	PFOA	413 > 368.7	6.53e4	1.000	4.27	4.27	26.6	YES	106.2	0.0016105
9	PFOS	459 > 79.9	1.06e4	1.000	4.67	4.67	24.6	YES	98.4	0.0620054
10	PFNA	463 > 418.8	5.20e4	1.000	4.61	4.61	27.3	YES	109.2	0.0453460
11	PFDA	513 > 468.8	1.39e4	1.000	4.90	4.90	29.3	NO	117.2	0.0598635
12	8:2 FTS	527 > 508.9	4.04e3	1.000	4.87	4.87	29.5	YES	118.1	0.0285400
13	13C3-PFBA	216.1 > 171.8	2.02e4	0.960	1.79	1.79	11.8	NO	94.7	0.0089805
14	13C3-PFPeA	286 > 221.8	1.54e4	0.526	2.73	2.72	12.4	NO	99.1	0.0096663

161101G1_18 Smooth(Mn.1x2):
 PFC CS3.5 16J2903 A ST161101G1-2 PFC CS3.5 16J2903
 8:2 FTS:4.87:4039.74:173449:MM:3797.95



F7:MRM of 14 channels.ES-
 527 > 508.9
 1.738e+005

161101G1_18 Smooth(Mn.1x2):
 PFC CS3.5 16J2903 A ST161101G1-2 PFC CS3.5 16J2903
 13C2-8:2 FTS:4.87:2994.76:130043:bb:1570.11



F7:MRM of 14 channels.ES-
 529.1 > 508.7
 1.302e+005

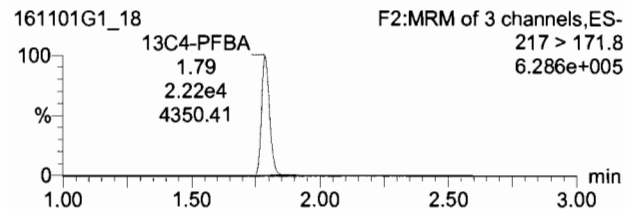
Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 10:56:11 Pacific Daylight Time

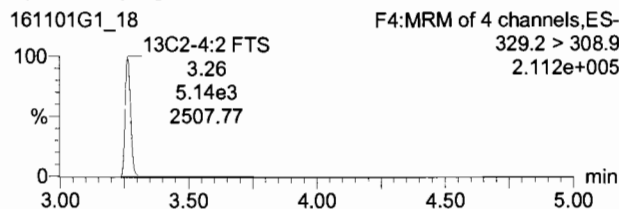
Printed: Wednesday, November 02, 2016 10:56:14 Pacific Daylight Time

Name: 161101G1_18, Date: 01-Nov-2016, Time: 17:34:14, ID: ST161101G1-2 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

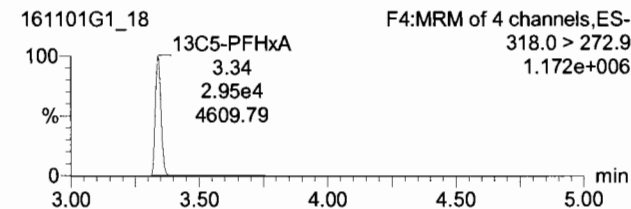
13C4-PFBA



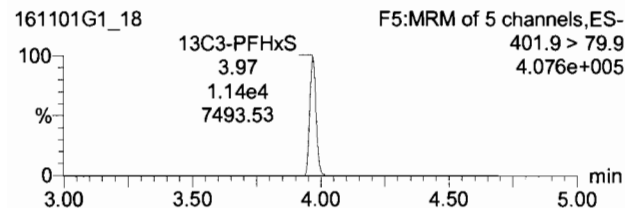
13C2-4:2 FTS



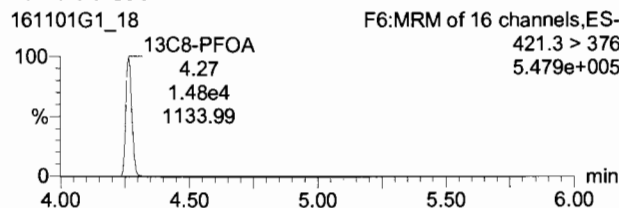
13C5-PFHxA



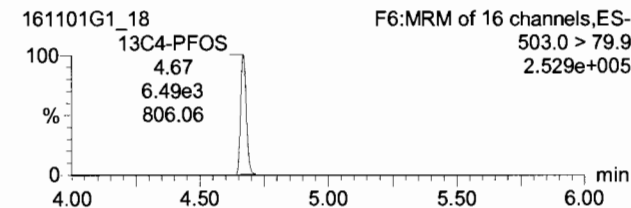
13C3-PFHxS



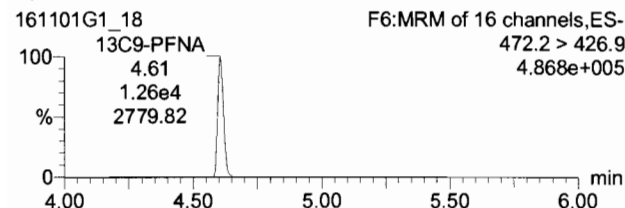
13C8-PFOA



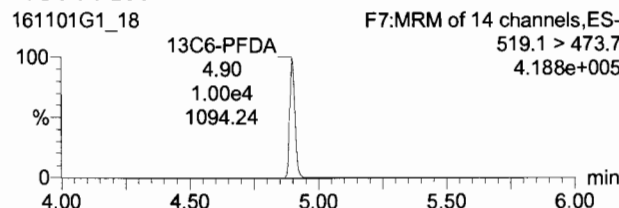
13C4-PFOS



13C9-PFNA



13C6-PFDA



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-41.qld

Last Altered: Wednesday, November 02, 2016 11:08:04 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:08:58 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161101G1_41, Date: 01-Nov-2016, Time: 22:24:24, ID: ST161101G1-3 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	213.1 > 168.8	2.88e4	2.33e4	1.000	1.000	1.81	22.8	91.1
2	2 PFPeA	263.1 > 218.9	2.42e4	1.48e4	1.000	1.000	2.74	25.2	101.0
3	3 PFBS	299 > 79.7	1.62e4	5.75e3	1.000	1.000	3.00	25.5	102.0
4	4 PFHxA	313.2 > 268.9	2.23e4	7.46e3	1.000	1.000	3.35	25.6	102.3
5	5 PFHpA	363 > 318.9	6.29e4	2.04e4	1.000	1.000	3.85	27.2	108.7
6	6 PFHxS	398.9 > 79.6	1.99e4	6.47e3	1.000	1.000	3.98	26.1	104.2
7	7 6:2 FTS	427.1 > 407	5.36e3	3.51e3	1.000	1.000	4.23	32.9	131.7
8	8 PFOA	413 > 368.7	6.60e4	3.38e4	1.000	1.000	4.27	26.8	107.4
9	9 PFOS	499 > 79.9	8.71e3	4.75e3	1.000	1.000	4.67	26.7	106.7
10	10 PFNA	463 > 418.8	5.03e4	1.27e4	1.000	1.000	4.61	27.1	108.2
11	11 PFDA	513 > 468.8	1.11e4	8.79e3	1.000	1.000	4.90	24.6	98.4
12	12 8:2 FTS	527 > 506.9	2.96e3	2.53e3	1.000	1.000	4.88	25.4	101.7
13	13 13C3-PFBA	216.1 > 171.8	2.33e4	2.21e4	0.960	1.000	1.80	13.7	109.8
14	14 13C3-PFPeA	266 > 221.8	1.48e4	2.88e4	0.526	1.000	2.74	12.1	97.2
15	15 13C3-PFBS	302.0 > 98.8	5.75e3	2.88e4	0.209	1.000	2.99	11.9	95.6
16	16 13C2-PFHxA	315 > 269.8	7.46e3	2.88e4	0.655	1.000	3.35	4.94	98.7
17	17 13C4-PFHpA	367.2 > 321.8	2.04e4	1.07e4	1.904	1.000	3.85	12.5	99.8
18	18 18O2-PFHxS	403 > 102.6	6.47e3	1.07e4	0.580	1.000	3.98	13.0	103.9
19	19 13C2-6:2 FTS	429.1 > 408.9	3.51e3	4.85e3	0.896	1.000	4.23	10.1	80.8
20	20 13C2-PFOA	414.9 > 369.7	3.38e4	1.35e4	2.326	1.000	4.27	13.5	107.6
21	21 13C8-PFOS	507.0 > 79.9	4.75e3	5.01e3	0.982	1.000	4.67	12.1	96.4
22	22 13C5-PFNA	468.2 > 422.9	1.27e4	1.18e4	1.038	1.000	4.61	13.0	103.6
23	23 13C2-PFDA	515.1 > 469.9	8.79e3	8.31e3	1.053	1.000	4.90	12.6	100.6
24	24 13C2-8:2 FTS	529.1 > 508.7	2.53e3	4.85e3	0.635	1.000	4.88	10.2	82.0
25	25 13C4-PFBA	217 > 171.8	2.21e4	2.21e4	1.000	1.000	1.80	12.5	100.0
26	26 13C2-4:2 FTS	329.2 > 308.9	4.85e3	4.85e3	1.000	1.000	3.27	12.5	100.0
27	27 13C5-PFHxA	318.0 > 272.9	2.88e4	2.88e4	1.000	1.000	3.35	12.5	100.0
28	28 13C3-PFHxS	401.9 > 79.9	1.07e4	1.07e4	1.000	1.000	3.98	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.35e4	1.35e4	1.000	1.000	4.27	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	5.01e3	5.01e3	1.000	1.000	4.67	12.5	100.0
31	31 13C9-PFNA	472.2 > 426.9	1.18e4	1.18e4	1.000	1.000	4.61	12.5	100.0

75-125
 ↓
 (B)
 ↓
 75-125
 60-150
 ↓
 40-150
 60-150
 ↓
 50-150
 60-150
 ↓
 40-150

AC
 11/2/16
 PW
 11/2/16
 (B) Not used for
 6:2 FTS.

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-41.qld

Last Altered: Wednesday, November 02, 2016 11:08:04 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:08:58 Pacific Daylight Time

Name: 161101G1_41, Date: 01-Nov-2016, Time: 22:24:24, ID: ST161101G1-3 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
32	13C6-PFDA	519.1 > 473.7	8.31e3	8.31e3	1.000	1.000	4.90	12.5	100.0

Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 11:12:58 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:13:10 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161101G1_1	IPA	01-Nov-16	13:59:48
2	161101G1_2	ST161101G1-1 PFC CS3.5 16J2903	01-Nov-16	14:12:24
3	161101G1_3	IPA	01-Nov-16	14:24:59
4	161101G1_4	B6J0196-BS1 OPR 0.125	01-Nov-16	14:37:36
5	161101G1_5	IPA	01-Nov-16	14:50:12
6	161101G1_6	B6J0196-BLK1 Method Blank 0.125	01-Nov-16	15:02:50
7	161101G1_7	1601334-13@5X BERPXX064 0.125	01-Nov-16	15:15:27
8	161101G1_8	1601343-01@10X BERP05026 0.125	01-Nov-16	15:28:04
9	161101G1_9	1601348-05 FB-M06-02_161024 0.12991	01-Nov-16	15:40:41
10	161101G1_10	1601348-06 FB-M06-04_161024 0.1306	01-Nov-16	15:53:19
11	161101G1_11	1601348-07 FB-S6-MW06_161024 0.12927	01-Nov-16	16:05:57
12	161101G1_12	1601348-08 FB-S6-MW-07_161024 0.12836	01-Nov-16	16:18:37
13	161101G1_13	1601348-09 M06-02_161024 0.1292	01-Nov-16	16:31:12
14	161101G1_14	1601348-10 M06-04_161024 0.12616	01-Nov-16	16:43:48
15	161101G1_15	1601348-11 S6-MW-07_161024 0.13003	01-Nov-16	16:56:24
16	161101G1_16	1601348-12 SB02_161024 0.12085	01-Nov-16	17:09:00
17	161101G1_17	IPA	01-Nov-16	17:21:37
18	161101G1_18	ST161101G1-2 PFC CS3.5 16J2903	01-Nov-16	17:34:14
19	161101G1_19	IPA	01-Nov-16	17:46:50
20	161101G1_20	B6J0184-BS1 OPR 1	01-Nov-16	17:59:29
21	161101G1_21	B6K0001-BS1 OPR 0.125	01-Nov-16	18:12:07
22	161101G1_22	B6K0001-BSD1 LCS Dup 0.125	01-Nov-16	18:24:45
23	161101G1_23	IPA	01-Nov-16	18:37:24
24	161101G1_24	B6J0184-BLK1 Method Blank 1	01-Nov-16	18:50:00
25	161101G1_25	B6K0001-BLK1 Method Blank 0.125	01-Nov-16	19:02:36
26	161101G1_26	B6J0184-MS1 Matrix Spike 1.2	01-Nov-16	19:15:11
27	161101G1_27	B6J0184-MSD1 Matrix Spike Dup 1.19	01-Nov-16	19:27:47
28	161101G1_28	B6J0184-MS2 Matrix Spike 1.27	01-Nov-16	19:40:23
29	161101G1_29	B6J0184-MSD2 Matrix Spike Dup 1.24	01-Nov-16	19:53:00
30	161101G1_30	1601348-14 S6-MW06_161024 0.12934	01-Nov-16	20:05:37
31	Work Order 1809170	1601353-01 48 Hour 0.1254	01-Nov-16	20:18:16

Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 11:12:58 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:13:10 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	161101G1_32	1601334-01 BERP03016 1.19	01-Nov-16	20:30:54
33	161101G1_33	1601334-02 BERP03017 1.1	01-Nov-16	20:43:30
34	161101G1_34	1601334-03 BERP03018 1.13	01-Nov-16	20:56:05
35	161101G1_35	1601334-04 BERP03094 1.13	01-Nov-16	21:08:40
36	161101G1_36	1601334-05 BERP03012 1.2	01-Nov-16	21:21:17
37	161101G1_37	1601334-06 BERP03092 1.1	01-Nov-16	21:33:54
38	161101G1_38	1601334-07 BERP03008 1.17	01-Nov-16	21:46:31
39	161101G1_39	1601334-08 BERP03007 1.19	01-Nov-16	21:59:09
40	161101G1_40	IPA	01-Nov-16	22:11:47
41	161101G1_41	ST161101G1-3 PFC CS3.5 16J2903	01-Nov-16	22:24:24
42	161101G1_42	IPA	01-Nov-16	22:36:59
43	161101G1_43	1601334-09 BERP03020 1.11	01-Nov-16	22:49:36
44	161101G1_44	1601334-11 BERP03019 1.17	01-Nov-16	23:02:11
45	161101G1_45	1601334-12 BERP03021 1.23	01-Nov-16	23:14:46
46	161101G1_46	1601338-02 RES-NRES024-FRB-102016 0.125	01-Nov-16	23:27:21
47	161101G1_47	1601338-04 RES-NRES034-FRB-102016 0.125	01-Nov-16	23:39:59
48	161101G1_48	1601370-01 OW11-MW9-1016 0.125	01-Nov-16	23:52:38
49	161101G1_49	1601370-02 OW11-MW9P-1016 0.125	02-Nov-16	00:05:14
50	161101G1_50	1601370-03 OW11-MW8-1016 0.125	02-Nov-16	00:17:49
51	161101G1_51	1601370-04 OW11-MW1-1016 0.125	02-Nov-16	00:30:24
52	161101G1_52	1601370-05 OW11-MW7-1016 0.125	02-Nov-16	00:43:01
53	161101G1_53	IPA	02-Nov-16	00:55:37
54	161101G1_54	ST161101G1-4 PFC CS3.5 16J2903	02-Nov-16	01:08:13
55	161101G1_55	IPA	02-Nov-16	01:20:49

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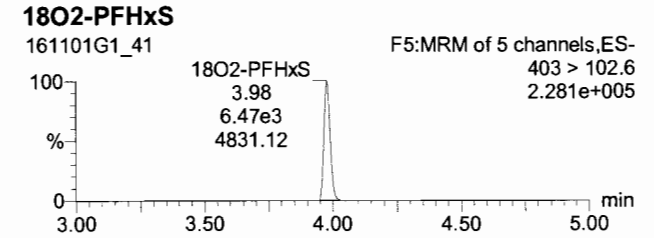
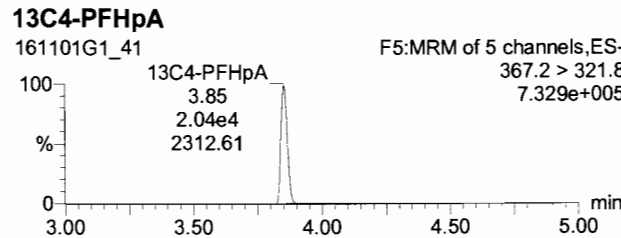
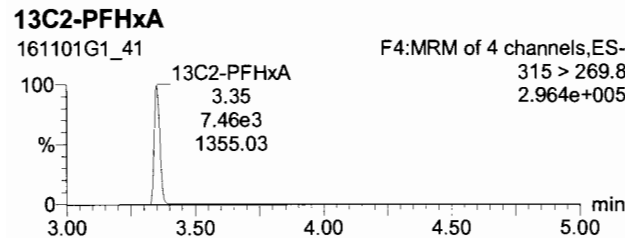
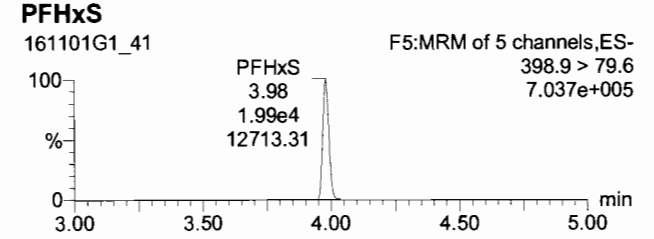
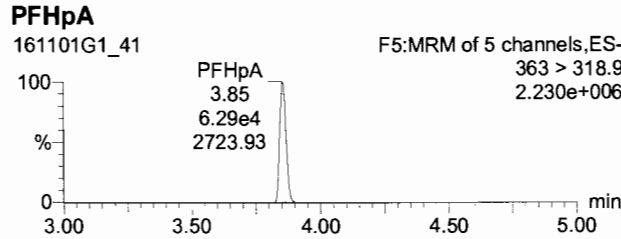
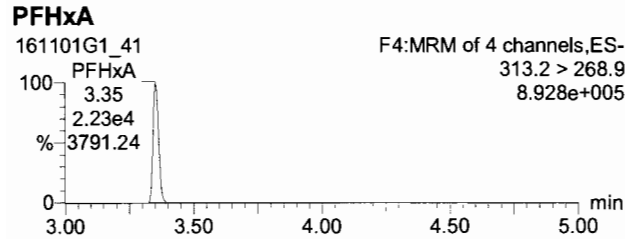
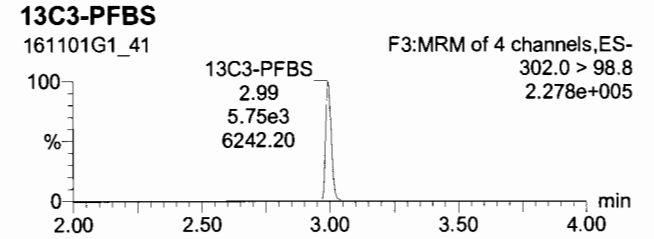
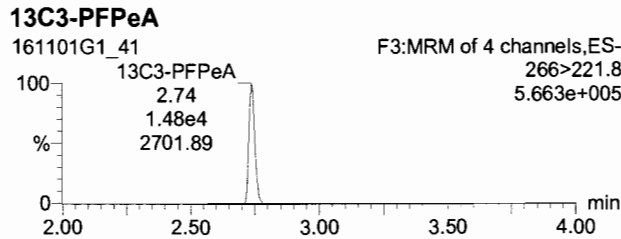
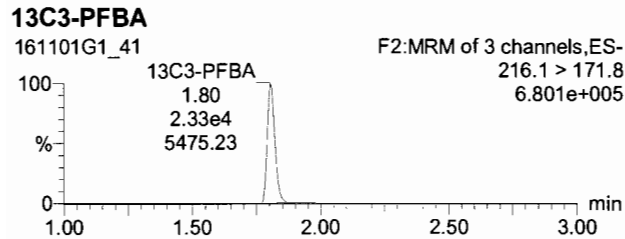
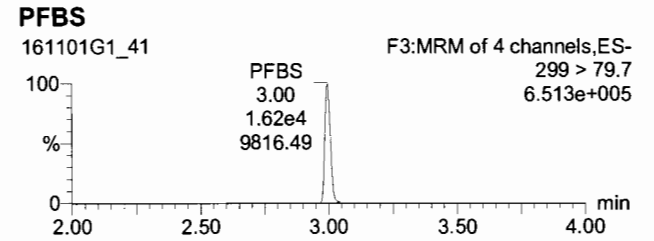
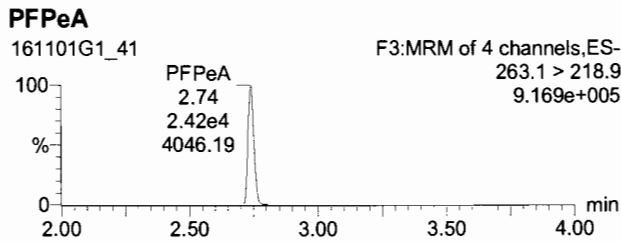
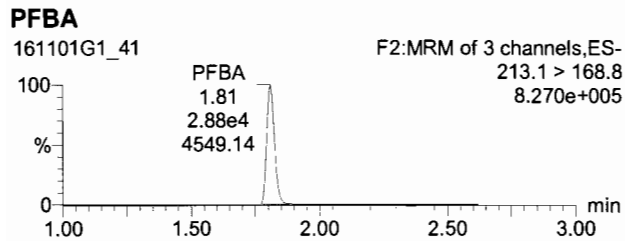
Last Altered: Wednesday, November 02, 2016 10:56:23 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:56:26 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161101G1_41, Date: 01-Nov-2016, Time: 22:24:24, ID: ST161101G1-3 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A



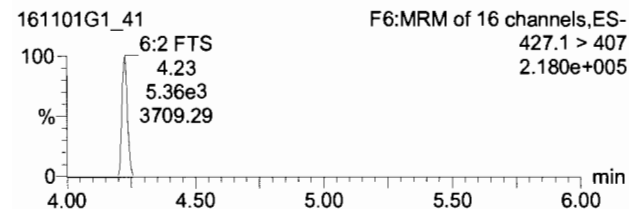
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Last Altered: Wednesday, November 02, 2016 10:56:23 Pacific Daylight Time

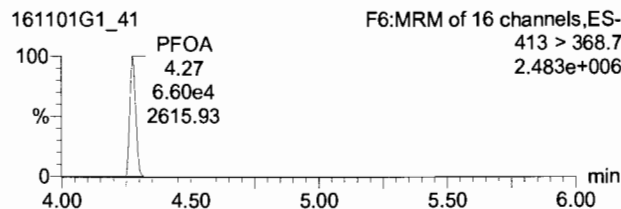
Printed: Wednesday, November 02, 2016 10:56:26 Pacific Daylight Time

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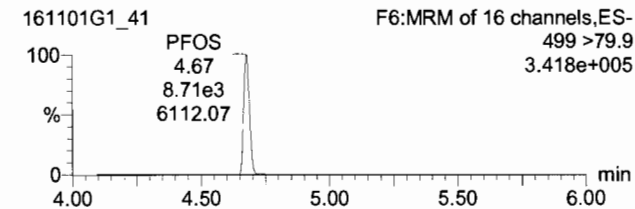
6:2 FTS



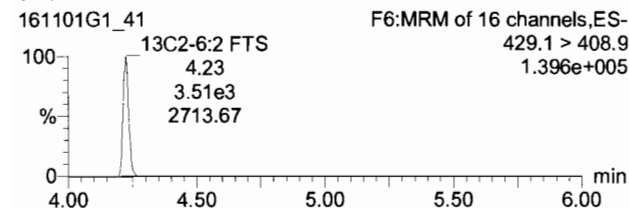
PFOA



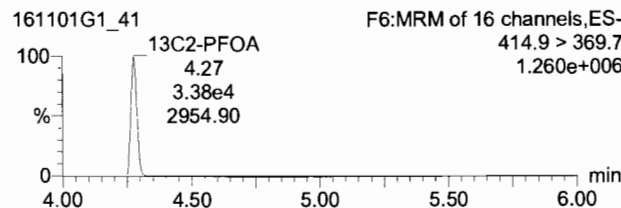
PFOS



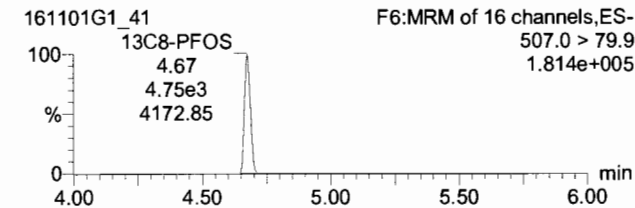
13C2-6:2 FTS



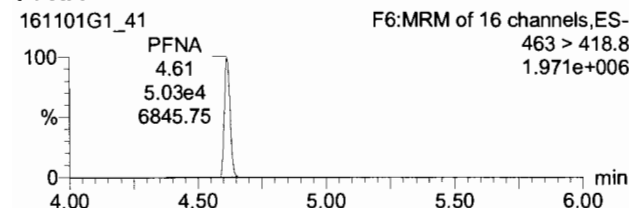
13C2-PFOA



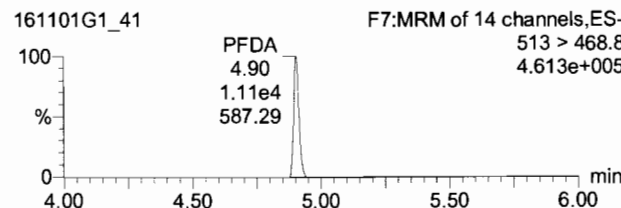
13C8-PFOS



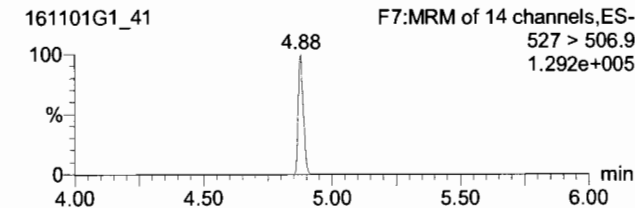
PFNA



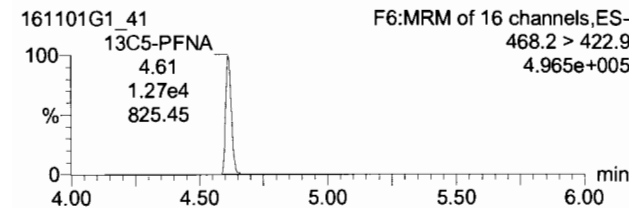
PFDA



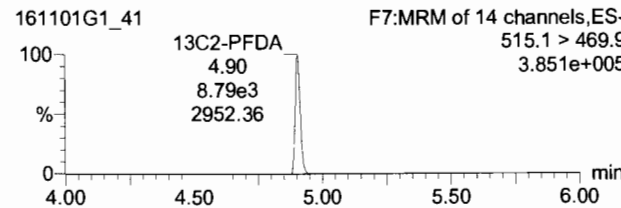
8:2 FTS



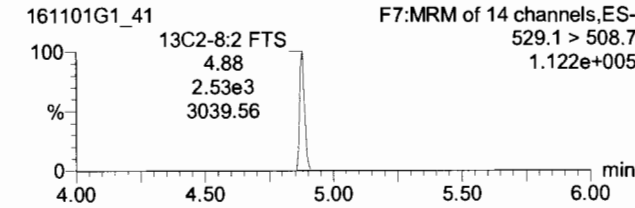
13C5-PFNA



13C2-PFDA

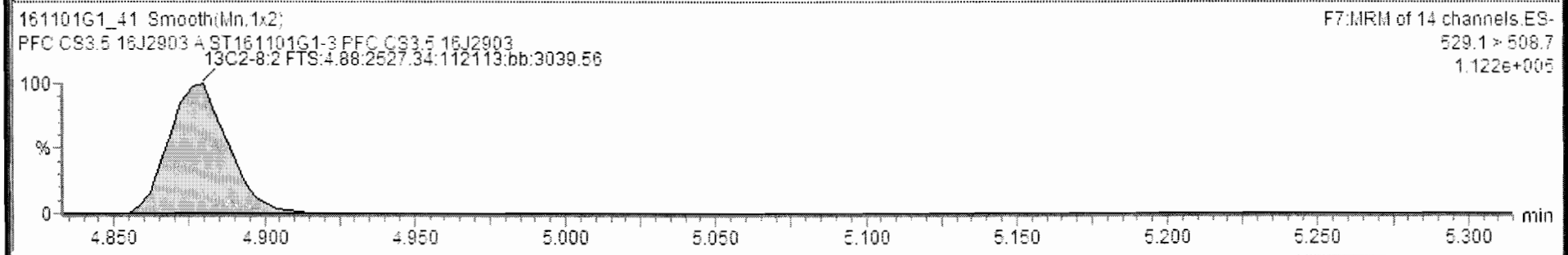
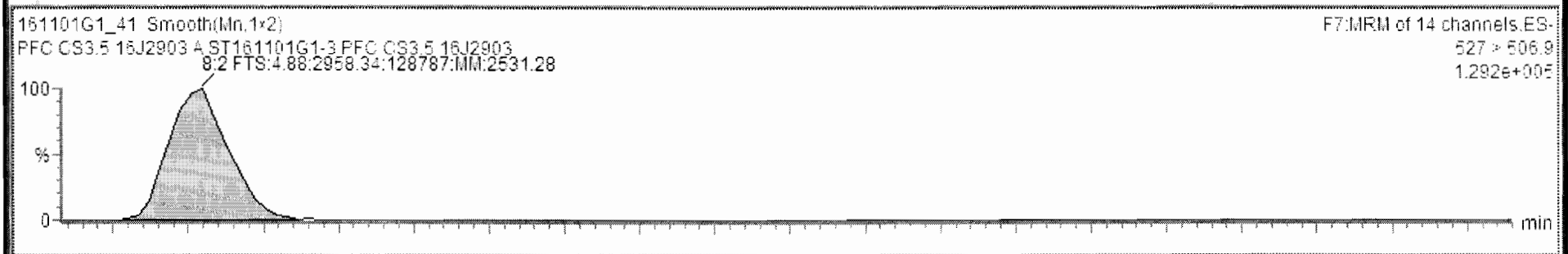


13C2-8:2 FTS



161101G1_41 - ST161101G1-3 PFC CS3.5 16J2903 - PFC CS3.5 16J2903 A

Name	Trace	Area	RRF	Wt/VoL	Pred.RT	RT	Conc.	>MDL	%Rec	DL
1	PFBA	213.1 > 168.8	2.88e4	1.000	1.80	1.81	22.8	YES	91.1	0.0155695
2	PFPeA	263.1 > 218.9	2.42e4	1.000	2.74	2.74	25.2	YES	101.0	0.0374704
3	PFBS	299 > 79.7	1.82e4	1.000	2.99	3.00	25.5	YES	102.0	0.0724332
4	PFHxA	313.2 > 268.9	2.23e4	1.000	3.25	3.25	25.8	YES	102.3	0.0000000
5	PFHpA	363 > 318.9	6.29e4	1.000	3.85	3.85	27.2	YES	108.7	0.0457617
6	PFHxS	398.9 > 79.6	1.99e4	1.000	3.98	3.98	26.1	YES	104.2	0.0179511
7	8:2 FTS	427.1 > 407	5.36e3	1.000	4.23	4.23	32.9	YES	131.7	0.0582816
8	PFOA	413 > 368.7	6.60e4	1.000	4.27	4.27	26.8	YES	107.4	0.0094080
9	PFOS	499 > 79.9	8.71e3	1.000	4.88	4.67	26.7	YES	106.7	0.0642967
10	PFNA	483 > 418.8	5.03e4	1.000	4.61	4.61	27.1	YES	108.2	0.0429027
11	PFDA	513 > 468.8	1.11e4	1.000	4.90	4.90	24.6	NO	98.4	0.1258750
12	8:2 FTS	527 > 506.9	2.96e3	1.000	4.88	4.88	25.4	YES	101.7	0.0342547
13	13C3-PFBA	216.1 > 171.8	2.32e4	0.960	1.80	1.80	13.7	NO	109.8	0.0062319
14	13C3-PFPeA	266 > 221.8	1.48e4	0.526	2.74	2.74	12.1	NO	97.2	0.0108226



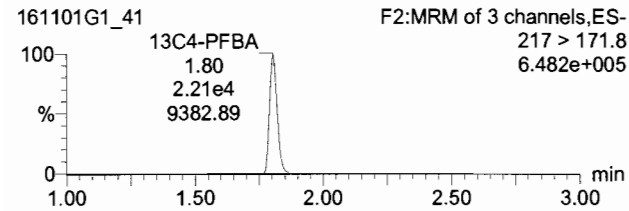
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Last Altered: Wednesday, November 02, 2016 10:56:23 Pacific Daylight Time

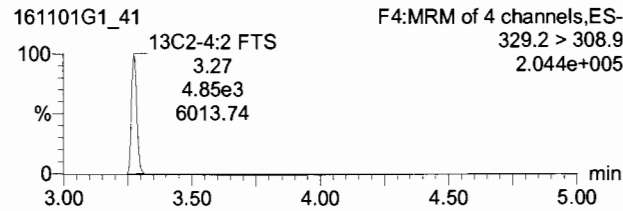
Printed: Wednesday, November 02, 2016 10:56:26 Pacific Daylight Time

Name: 161101G1_41, Date: 01-Nov-2016, Time: 22:24:24, ID: ST161101G1-3 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

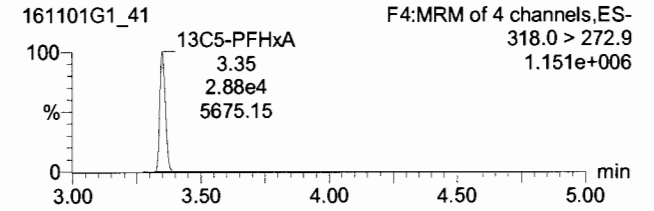
13C4-PFBA



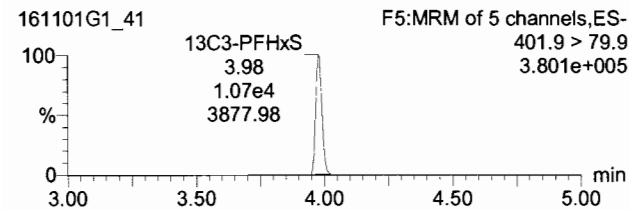
13C2-4:2 FTS



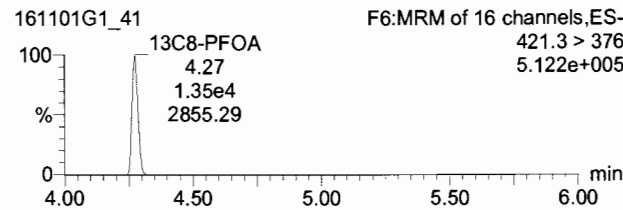
13C5-PFHxA



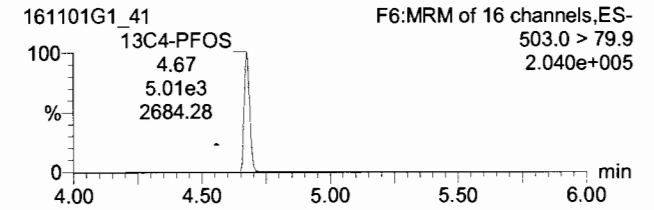
13C3-PFHxS



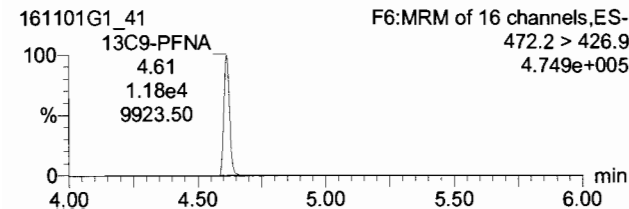
13C8-PFOA



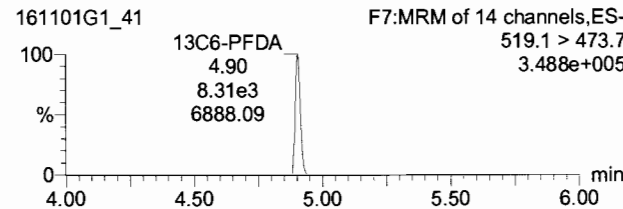
13C4-PFOS



13C9-PFNA



13C6-PFDA



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-54.qld

Last Altered: Wednesday, November 02, 2016 11:10:54 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:11:23 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161101G1_54, Date: 02-Nov-2016, Time: 01:08:13, ID: ST161101G1-4 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	213.1 > 168.8	2.29e4	1.70e4		1.000	1.82	24.7	98.8
2	2 PFPeA	263.1 > 218.9	1.94e4	1.19e4		1.000	2.74	25.0	99.9
3	3 PFBS	299 > 79.7	1.21e4	4.57e3		1.000	3.00	24.0	95.8
4	4 PFHxA	313.2 > 268.9	1.76e4	6.43e3		1.000	3.35	23.5	94.0
5	5 PFHpA	363 > 318.9	4.95e4	1.64e4		1.000	3.86	26.6	106.4
6	6 PFHxS	398.9 > 79.6	1.46e4	4.88e3		1.000	3.98	25.4	101.7
7	7 6:2 FTS	427.1 > 407	4.33e3	3.22e3		1.000	4.23	28.5	114.1
8	8 PFOA	413 > 368.7	5.00e4	2.64e4		1.000	4.28	26.0	104.0
9	9 PFOS	499 > 79.9	5.29e3	2.74e3		1.000	4.68	28.0	112.2
10	10 PFNA	463 > 418.8	3.32e4	8.92e3		1.000	4.62	25.4	101.7
11	11 PFDA	513 > 468.8	5.69e3	4.51e3		1.000	4.91	24.7	98.7
12	12 8:2 FTS	527 > 506.9	1.86e3	1.66e3		1.000	4.88	24.3	97.0
13	13 13C3-PFBA	216.1 > 171.8	1.70e4	1.75e4	0.960	1.000	1.82	12.6	101.2
14	14 13C3-PFPeA	266 > 221.8	1.19e4	2.42e4	0.526	1.000	2.74	11.7	93.8
15	15 13C3-PFBS	302.0 > 98.8	4.57e3	2.42e4	0.209	1.000	2.99	11.3	90.5
16	16 13C2-PFHxA	315 > 269.8	6.43e3	2.42e4	0.655	1.000	3.35	5.07	101.4
17	17 13C4-PFHpA	367.2 > 321.8	1.64e4	8.30e3	1.904	1.000	3.86	13.0	103.8
18	18 18O2-PFHxS	403 > 102.6	4.88e3	8.30e3	0.580	1.000	3.98	12.7	101.4
19	19 13C2-6:2 FTS	429.1 > 408.9	3.22e3	3.97e3	0.896	1.000	4.23	11.3	90.3
20	20 13C2-PFOA	414.9 > 369.7	2.64e4	1.16e4	2.326	1.000	4.27	12.2	97.6
21	21 13C8-PFOS	507.0 > 79.9	2.74e3	3.29e3	0.982	1.000	4.68	10.6	84.9
22	22 13C5-PFNA	468.2 > 422.9	8.92e3	8.26e3	1.038	1.000	4.62	13.0	104.1
23	23 13C2-PFDA	515.1 > 469.9	4.51e3	4.23e3	1.053	1.000	4.90	12.6	101.2
24	24 13C2-8:2 FTS	529.1 > 508.7	1.66e3	3.97e3	0.635	1.000	4.88	8.23	65.9
25	25 13C4-PFBA	217 > 171.8	1.75e4	1.75e4	1.000	1.000	1.81	12.5	100.0
26	26 13C2-4:2 FTS	329.2 > 308.9	3.97e3	3.97e3	1.000	1.000	3.27	12.5	100.0
27	27 13C5-PFHxA	318.0 > 272.9	2.42e4	2.42e4	1.000	1.000	3.35	12.5	100.0
28	28 13C3-PFHxS	401.9 > 79.9	8.30e3	8.30e3	1.000	1.000	3.98	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.16e4	1.16e4	1.000	1.000	4.27	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	3.29e3	3.29e3	1.000	1.000	4.68	12.5	100.0
31	31 13C9-PFNA	472.2 > 426.9	8.26e3	8.26e3	1.000	1.000	4.62	12.5	100.0

15-125
 ↓
 60-150
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 40-150
 60-150
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 50-150
 60-150
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 40-150

AC
 11/2/16
 PW
 11/2/16

Dataset: U:\G1.PRO\Results\2016\161101G1\161101G1-54.qld

Last Altered: Wednesday, November 02, 2016 11:10:54 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:11:23 Pacific Daylight Time

Name: 161101G1_54, Date: 02-Nov-2016, Time: 01:08:13, ID: ST161101G1-4 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

#	Name	Trace	Response	IS Resp	RRF	WtVol	RT	Conc.	%Rec
32	13C6-PFDA	519.1 > 473.7	4.23e3	4.23e3	1.000	1.000	4.90	12.5	100.0

Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 11:12:58 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:13:10 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161101G1_1	IPA	01-Nov-16	13:59:48
2	161101G1_2	ST161101G1-1 PFC CS3.5 16J2903	01-Nov-16	14:12:24
3	161101G1_3	IPA	01-Nov-16	14:24:59
4	161101G1_4	B6J0196-BS1 OPR 0.125	01-Nov-16	14:37:36
5	161101G1_5	IPA	01-Nov-16	14:50:12
6	161101G1_6	B6J0196-BLK1 Method Blank 0.125	01-Nov-16	15:02:50
7	161101G1_7	1601334-13@5X BERPXX064 0.125	01-Nov-16	15:15:27
8	161101G1_8	1601343-01@10X BERP05026 0.125	01-Nov-16	15:28:04
9	161101G1_9	1601348-05 FB-M06-02_161024 0.12991	01-Nov-16	15:40:41
10	161101G1_10	1601348-06 FB-M06-04_161024 0.1306	01-Nov-16	15:53:19
11	161101G1_11	1601348-07 FB-S6-MW06_161024 0.12927	01-Nov-16	16:05:57
12	161101G1_12	1601348-08 FB-S6-MW-07_161024 0.12836	01-Nov-16	16:18:37
13	161101G1_13	1601348-09 M06-02_161024 0.1292	01-Nov-16	16:31:12
14	161101G1_14	1601348-10 M06-04_161024 0.12616	01-Nov-16	16:43:48
15	161101G1_15	1601348-11 S6-MW-07_161024 0.13003	01-Nov-16	16:56:24
16	161101G1_16	1601348-12 SB02_161024 0.12085	01-Nov-16	17:09:00
17	161101G1_17	IPA	01-Nov-16	17:21:37
18	161101G1_18	ST161101G1-2 PFC CS3.5 16J2903	01-Nov-16	17:34:14
19	161101G1_19	IPA	01-Nov-16	17:46:50
20	161101G1_20	B6J0184-BS1 OPR 1	01-Nov-16	17:59:29
21	161101G1_21	B6K0001-BS1 OPR 0.125	01-Nov-16	18:12:07
22	161101G1_22	B6K0001-BSD1 LCS Dup 0.125	01-Nov-16	18:24:45
23	161101G1_23	IPA	01-Nov-16	18:37:24
24	161101G1_24	B6J0184-BLK1 Method Blank 1	01-Nov-16	18:50:00
25	161101G1_25	B6K0001-BLK1 Method Blank 0.125	01-Nov-16	19:02:36
26	161101G1_26	B6J0184-MS1 Matrix Spike 1.2	01-Nov-16	19:15:11
27	161101G1_27	B6J0184-MSD1 Matrix Spike Dup 1.19	01-Nov-16	19:27:47
28	161101G1_28	B6J0184-MS2 Matrix Spike 1.27	01-Nov-16	19:40:23
29	161101G1_29	B6J0184-MSD2 Matrix Spike Dup 1.24	01-Nov-16	19:53:00
30	161101G1_30	1601348-14 S6-MW06_161024 0.12934	01-Nov-16	20:05:37
31	Work Order 1009170	1601353-01 48 Hour 0.1254	01-Nov-16	20:18:16

Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 11:12:58 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 11:13:10 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	161101G1_32	1601334-01 BERP03016 1.19	01-Nov-16	20:30:54
33	161101G1_33	1601334-02 BERP03017 1.1	01-Nov-16	20:43:30
34	161101G1_34	1601334-03 BERP03018 1.13	01-Nov-16	20:56:05
35	161101G1_35	1601334-04 BERP03094 1.13	01-Nov-16	21:08:40
36	161101G1_36	1601334-05 BERP03012 1.2	01-Nov-16	21:21:17
37	161101G1_37	1601334-06 BERP03092 1.1	01-Nov-16	21:33:54
38	161101G1_38	1601334-07 BERP03008 1.17	01-Nov-16	21:46:31
39	161101G1_39	1601334-08 BERP03007 1.19	01-Nov-16	21:59:09
40	161101G1_40	IPA	01-Nov-16	22:11:47
41	161101G1_41	ST161101G1-3 PFC CS3.5 16J2903	01-Nov-16	22:24:24
42	161101G1_42	IPA	01-Nov-16	22:36:59
43	161101G1_43	1601334-09 BERP03020 1.11	01-Nov-16	22:49:36
44	161101G1_44	1601334-11 BERP03019 1.17	01-Nov-16	23:02:11
45	161101G1_45	1601334-12 BERP03021 1.23	01-Nov-16	23:14:46
46	161101G1_46	1601338-02 RES-NRES024-FRB-102016 0.125	01-Nov-16	23:27:21
47	161101G1_47	1601338-04 RES-NRES034-FRB-102016 0.125	01-Nov-16	23:39:59
48	161101G1_48	1601370-01 OW11-MW9-1016 0.125	01-Nov-16	23:52:38
49	161101G1_49	1601370-02 OW11-MW9P-1016 0.125	02-Nov-16	00:05:14
50	161101G1_50	1601370-03 OW11-MW8-1016 0.125	02-Nov-16	00:17:49
51	161101G1_51	1601370-04 OW11-MW1-1016 0.125	02-Nov-16	00:30:24
52	161101G1_52	1601370-05 OW11-MW7-1016 0.125	02-Nov-16	00:43:01
53	161101G1_53	IPA	02-Nov-16	00:55:37
54	161101G1_54	ST161101G1-4 PFC CS3.5 16J2903	02-Nov-16	01:08:13
55	161101G1_55	IPA	02-Nov-16	01:20:49

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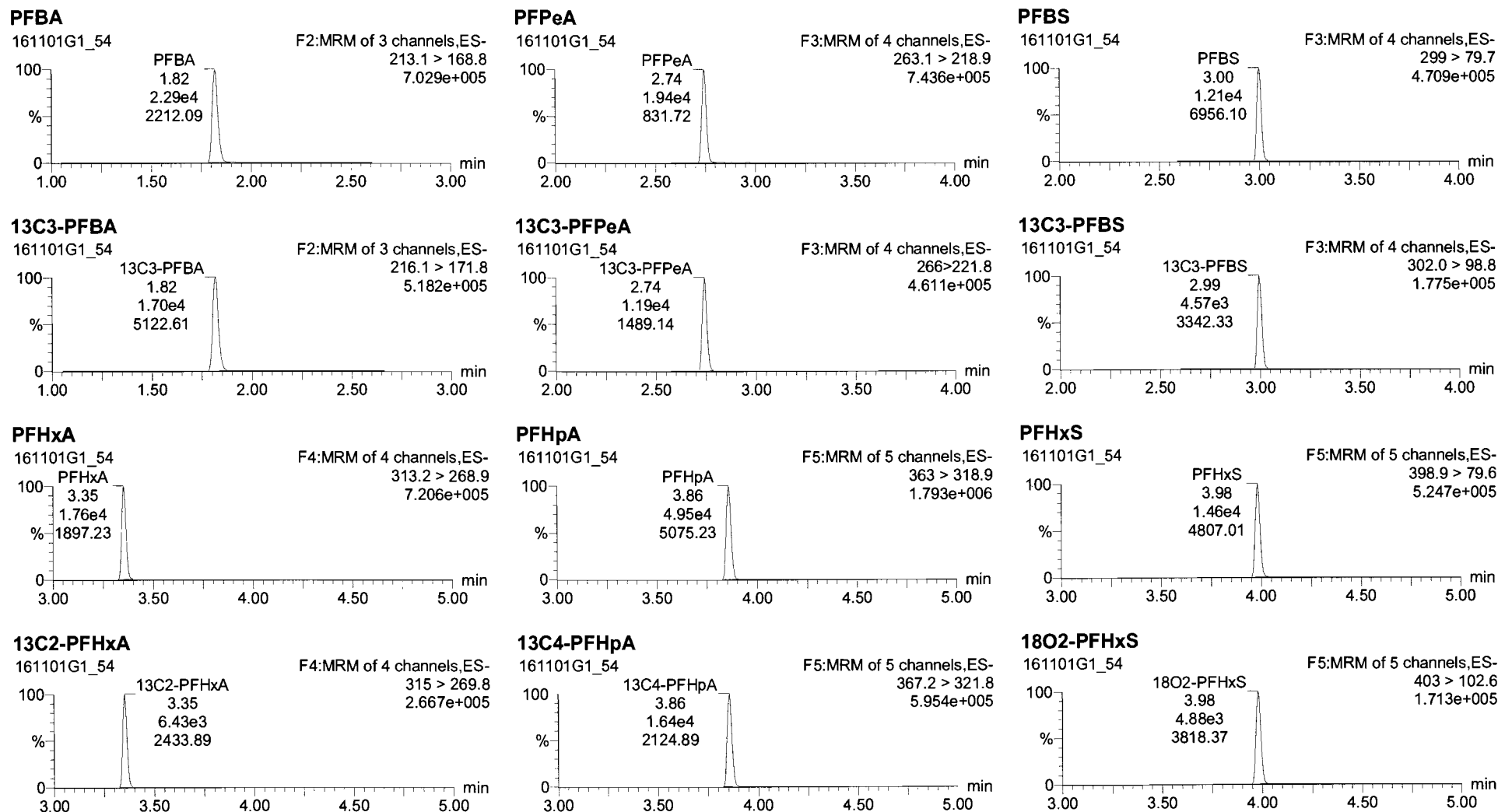
Last Altered: Wednesday, November 02, 2016 10:56:48 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:56:53 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

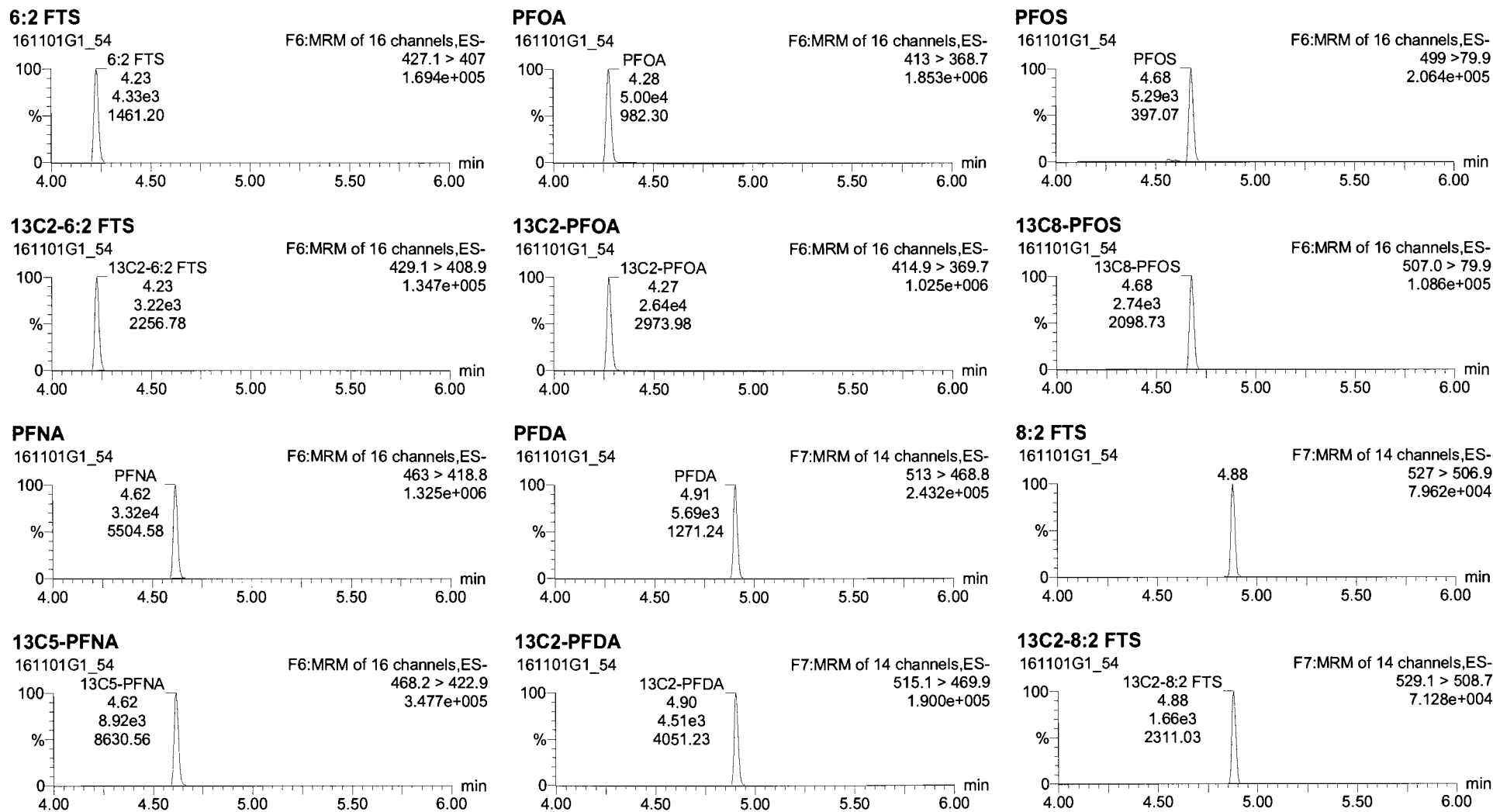
Name: 161101G1_54, Date: 02-Nov-2016, Time: 01:08:13, ID: ST161101G1-4 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A



Dataset: Untitled

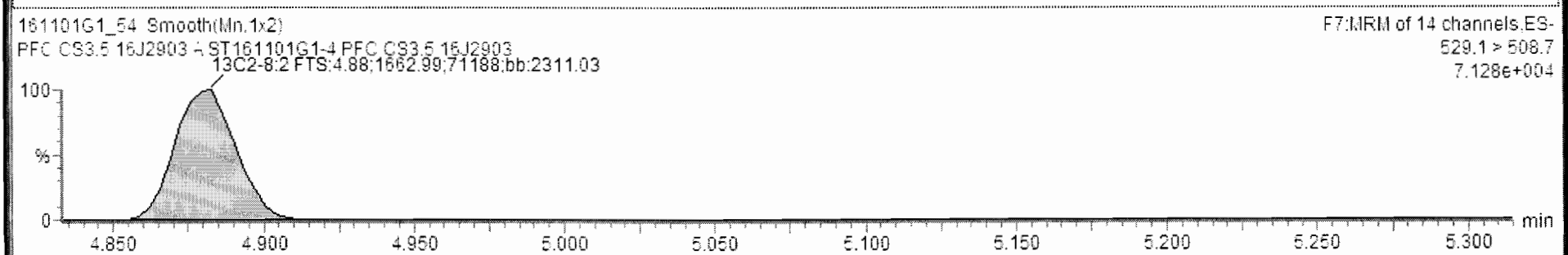
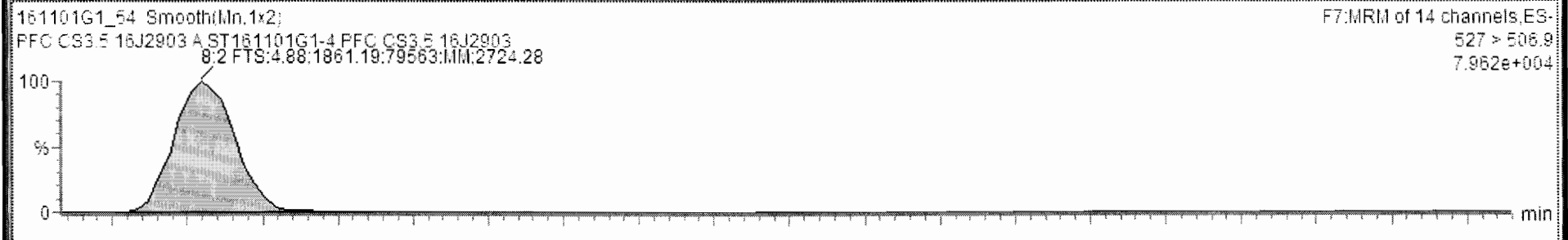
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Printed: Wednesday, November 02, 2016 10:56:53 Pacific Daylight Time

Name: 161101G1_54, Date: 02-Nov-2016, Time: 01:08:13, ID: ST161101G1-4 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A



161101G1_54 - ST161101G1-4 PFC CS3.5 16J2903 - PFC CS3.5 16J2903 A

Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
1	PFBA	213.1 > 168.8	2.29e4	1.000	1.82	1.82	24.7	YES	98.8	0.0314503
2	PFPeA	283.1 > 218.9	1.94e4	1.000	2.74	2.74	25.0	YES	98.9	0.0965363
3	PFBS	259 > 79.7	1.21e4	1.000	2.99	3.00	24.0	YES	95.8	0.0744662
4	PFHxA	313.2 > 268.9	1.76e4	1.000	3.35	3.35	23.5	YES	94.0	0.0110112
5	PFHpA	363 > 318.9	4.95e4	1.000	3.88	3.88	26.6	YES	106.4	0.0341983
6	PFHxS	398.9 > 79.6	1.46e4	1.000	3.98	3.98	25.4	YES	101.7	0.0263305
7	8:2 FTS	427.1 > 407	4.33e3	1.000	4.23	4.23	28.5	YES	114.1	0.0771670
8	PFOA	413 > 388.7	5.00e4	1.000	4.27	4.28	28.0	YES	104.0	0.0467230
9	PFOS	489 > 79.9	5.29e3	1.000	4.68	4.68	28.0	YES	112.2	0.2270157
10	PFNA	483 > 418.8	3.32e4	1.000	4.82	4.82	25.4	YES	101.7	0.0448078
11	PFDA	513 > 468.8	5.89e3	1.000	4.90	4.91	24.7	NO	98.7	0.0754790
12	8:2 FTS	527 > 506.9	1.86e3	1.000	4.88	4.88	24.3	YES	97.0	0.0319990
13	13C3-PFBA	216.1 > 171.8	1.70e4	0.960	1.81	1.82	12.6	NO	101.2	0.0060914
14	13C3-PFPeA	286 > 221.8	1.19e4	0.526	2.74	2.74	11.7	NO	93.8	0.0187334



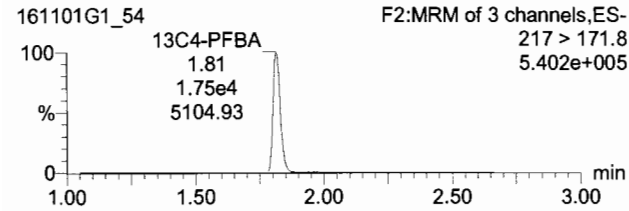
Dataset: Untitled

Last Altered: Wednesday, November 02, 2016 10:56:48 Pacific Daylight Time

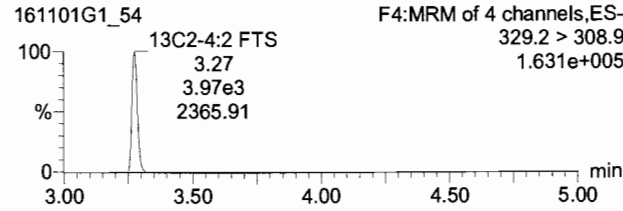
Printed: Wednesday, November 02, 2016 10:56:53 Pacific Daylight Time

Name: 161101G1_54, Date: 02-Nov-2016, Time: 01:08:13, ID: ST161101G1-4 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

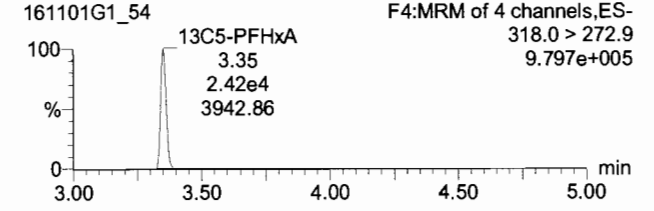
13C4-PFBA



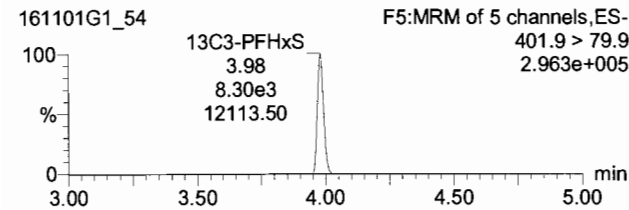
13C2-4:2 FTS



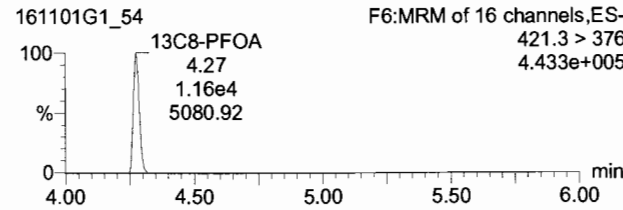
13C5-PFHxA



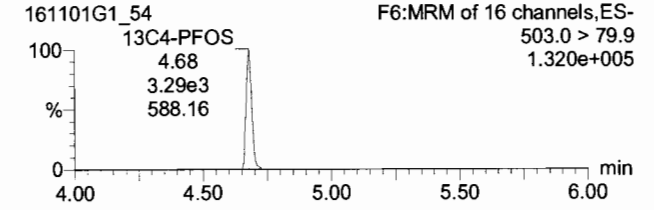
13C3-PFHxS



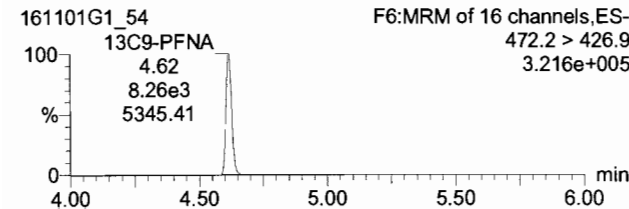
13C8-PFOA



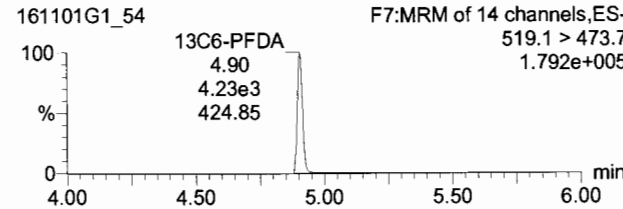
13C4-PFOS



13C9-PFNA



13C6-PFDA



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-2.qld

Last Altered: Thursday, November 03, 2016 10:26:53 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:27:06 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161102G1_2, Date: 02-Nov-2016, Time: 11:06:37, ID: ST161102G1-1 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
1	1 PFBA	213.1 > 168.8	3.08e4	2.18e4		1.000	1.78	26.0	103.8
2	2 PFPeA	263.1 > 218.9	2.56e4	1.52e4		1.000	2.72	25.9	103.8
3	3 PFBS	299 > 79.7	1.46e4	5.47e3		1.000	2.98	24.2	96.8
4	4 PFHxA	313.2 > 268.9	2.30e4	7.43e3		1.000	3.34	26.4	105.8
5	5 PFHpA	363 > 318.9	5.94e4	2.01e4		1.000	3.84	26.1	104.2
6	6 PFHxS	398.9 > 79.6	1.84e4	6.09e3		1.000	3.97	25.7	102.7
7	7 6:2 FTS	427.1 > 407	6.60e3	4.78e3		1.000	4.21	29.3	117.3
8	8 PFOA	413 > 368.7	6.71e4	3.43e4		1.000	4.26	26.8	107.3
9	9 PFOS	499 > 79.9	1.33e4	7.43e3		1.000	4.67	26.1	104.3
10	10 PFNA	463 > 418.8	5.56e4	1.41e4		1.000	4.61	26.9	107.7
11	11 PFDA	513 > 468.8	2.07e4	1.52e4		1.000	4.89	26.6	106.5
12	12 8:2 FTS	527 > 506.9	6.01e3	4.31e3		1.000	4.87	30.6	122.4
13	13 13C3-PFBA	216.1 > 171.8	2.18e4	2.32e4	0.960	1.000	1.78	12.3	98.1
14	14 13C3-PFPeA	266 > 221.8	1.52e4	2.86e4	0.526	1.000	2.72	12.6	100.7
15	15 13C3-PFBS	302.0 > 98.8	5.47e3	2.86e4	0.209	1.000	2.97	11.5	91.7
16	16 13C2-PFHxA	315 > 269.8	7.43e3	2.86e4	0.655	1.000	3.34	4.96	99.3
17	17 13C4-PFHpA	367.2 > 321.8	2.01e4	1.08e4	1.904	1.000	3.84	12.2	97.5
18	18 18O2-PFHxS	403 > 102.6	6.09e3	1.08e4	0.580	1.000	3.97	12.1	96.9
19	19 13C2-6:2 FTS	429.1 > 408.9	4.78e3	5.38e3	0.896	1.000	4.21	12.4	99.2
20	20 13C2-PFOA	414.9 > 369.7	3.43e4	1.53e4	2.326	1.000	4.26	12.1	96.8
21	21 13C8-PFOS	507.0 > 79.9	7.43e3	8.02e3	0.982	1.000	4.67	11.8	94.3
22	22 13C5-PFNA	468.2 > 422.9	1.41e4	1.32e4	1.038	1.000	4.61	12.9	103.3
23	23 13C2-PFDA	515.1 > 469.9	1.52e4	1.52e4	1.053	1.000	4.89	11.9	95.0
24	24 13C2-8:2 FTS	529.1 > 508.7	4.31e3	5.38e3	0.635	1.000	4.87	15.7	125.9
25	25 13C4-PFBA	217 > 171.8	2.32e4	2.32e4	1.000	1.000	1.77	12.5	100.0
26	26 13C2-4:2 FTS	329.2 > 308.9	5.38e3	5.38e3	1.000	1.000	3.26	12.5	100.0
27	27 13C5-PFHxA	318.0 > 272.9	2.86e4	2.86e4	1.000	1.000	3.33	12.5	100.0
28	28 13C3-PFHxS	401.9 > 79.9	1.08e4	1.08e4	1.000	1.000	3.97	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.53e4	1.53e4	1.000	1.000	4.26	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	8.02e3	8.02e3	1.000	1.000	4.67	12.5	100.0
31	31 13C9-PFNA	472.2 > 426.9	1.32e4	1.32e4	1.000	1.000	4.61	12.5	100.0

75-125

60-150

40-150

60-150

50-150

60-150

40-150

AC
11/3/14
PW
11/3/16

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-2.qld

Last Altered: Thursday, November 03, 2016 10:26:53 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:27:06 Pacific Daylight Time

Name: 161102G1_2, Date: 02-Nov-2016, Time: 11:06:37, ID: ST161102G1-1 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
32	13C6-PFDA	519.1 > 473.7	1.52e4	1.52e4	1.000	1.000	4.89	12.5	100.0

Dataset: Untitled

Last Altered: Thursday, November 03, 2016 10:46:18 Pacific Daylight Time
Printed: Thursday, November 03, 2016 10:46:47 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	161102G1_1	IPA	02-Nov-16	10:53:59
2	161102G1_2	ST161102G1-1 PFC CS3.5 16K0201	02-Nov-16	11:06:37
3	161102G1_3	IPA	02-Nov-16	11:19:13
4	161102G1_4	B6J0184-BS1 OPR 1	02-Nov-16	11:31:51
5	161102G1_5	1601348-11@5X S6-MW-07_161024 0.13003	02-Nov-16	11:44:27
6	161102G1_6	1601348-14@10X S6-MW06_161024 0.12934	02-Nov-16	11:57:04
7	161102G1_7	B6J0178-MSD1 Matrix Spike Dup 0.125	02-Nov-16	12:09:41
8	161102G1_8	1601334-15 BERP05071 0.125	02-Nov-16	12:22:18
9	161102G1_9	1601370-06 OW11-MW5-1016 0.125	02-Nov-16	12:34:57
10	161102G1_10	B6K0001-MS1 Matrix Spike 0.125	02-Nov-16	12:47:35
11	161102G1_11	B6K0001-MSD1 Matrix Spike Dup 0.125	02-Nov-16	13:00:18
12	161102G1_12	1601370-07 OW11-MW6-1016 0.125	02-Nov-16	13:12:53
13	161102G1_13	1601370-08 OW11-MW4-1016 0.125	02-Nov-16	13:25:28
14	161102G1_14	1601370-09 MW-BG13-1016 0.125	02-Nov-16	13:38:05
15	161102G1_15	1601370-10 MW-BG13P-1016 0.125	02-Nov-16	13:50:42
16	161102G1_16	1601370-11 MW-BG12-1016 0.125	02-Nov-16	14:03:19
17	161102G1_17	IPA	02-Nov-16	14:15:57
18	161102G1_18	ST161102G1-2 PFC CS3.5 16K0201	02-Nov-16	14:28:35
19	161102G1_19	IPA	02-Nov-16	14:41:10
20	161102G1_20	B6K0004-BS1 OPR 0.125	02-Nov-16	15:06:45
21	161102G1_21	IPA	02-Nov-16	15:19:23
22	161102G1_22	B6K0004-BLK1 Method Blank 0.125	02-Nov-16	15:32:02
23	161102G1_23	1601347-13 KULPCA096 0.1247	02-Nov-16	15:44:41
24	161102G1_24	1601371-01 BERPXX062 0.12386	02-Nov-16	15:57:17
25	161102G1_25	B6K0004-MS1 Matrix Spike 0.12752	02-Nov-16	16:09:53
26	161102G1_26	B6K0004-MSD1 Matrix Spike Dup 0.12607	02-Nov-16	16:22:28
27	161102G1_27	1601371-02 BERP07035 0.11961	02-Nov-16	16:35:05
28	161102G1_28	1601371-03 BERP07040 0.12377	02-Nov-16	16:47:42
29	161102G1_29	1601371-04 BERP07044 0.1268	02-Nov-16	17:00:19
30	161102G1_30	1601371-05 BERP03006 0.12518	02-Nov-16	17:12:57
31	161102G1_31	1601371-06 BERP03015 0.12083	02-Nov-16	17:25:36

Dataset: Untitled

Last Altered: Thursday, November 03, 2016 10:46:18 Pacific Daylight Time
Printed: Thursday, November 03, 2016 10:46:47 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	161102G1_32	B6K0004-MS2 Matrix Spike 0.12153	02-Nov-16	17:38:11
33	161102G1_33	B6K0004-MSD2 Matrix Spike Dup 0.12495	02-Nov-16	17:50:46
34	161102G1_34	1601371-07 BERPCA004 0.12545	02-Nov-16	18:03:22
35	161102G1_35	1601371-08 BERPCA001 0.1267	02-Nov-16	18:15:58
36	161102G1_36	1601371-09 BERP07072 0.1256	02-Nov-16	18:28:35
37	161102G1_37	IPA	02-Nov-16	18:41:13
38	161102G1_38	ST161102G1-3 PFC CS3.5 16K0201	02-Nov-16	18:53:50
39	161102G1_39	IPA	02-Nov-16	19:06:24
40	161102G1_40	1601371-10 BERPCA002 0.12175	02-Nov-16	19:19:03
41	161102G1_41	1601371-11 BERP05028 0.12566	02-Nov-16	19:31:41
42	161102G1_42	IPA	02-Nov-16	19:44:20
43	161102G1_43	ST161102G1-4 PFC CS3.5 16K0201	02-Nov-16	19:56:59
44	161102G1_44	IPA	02-Nov-16	20:09:35

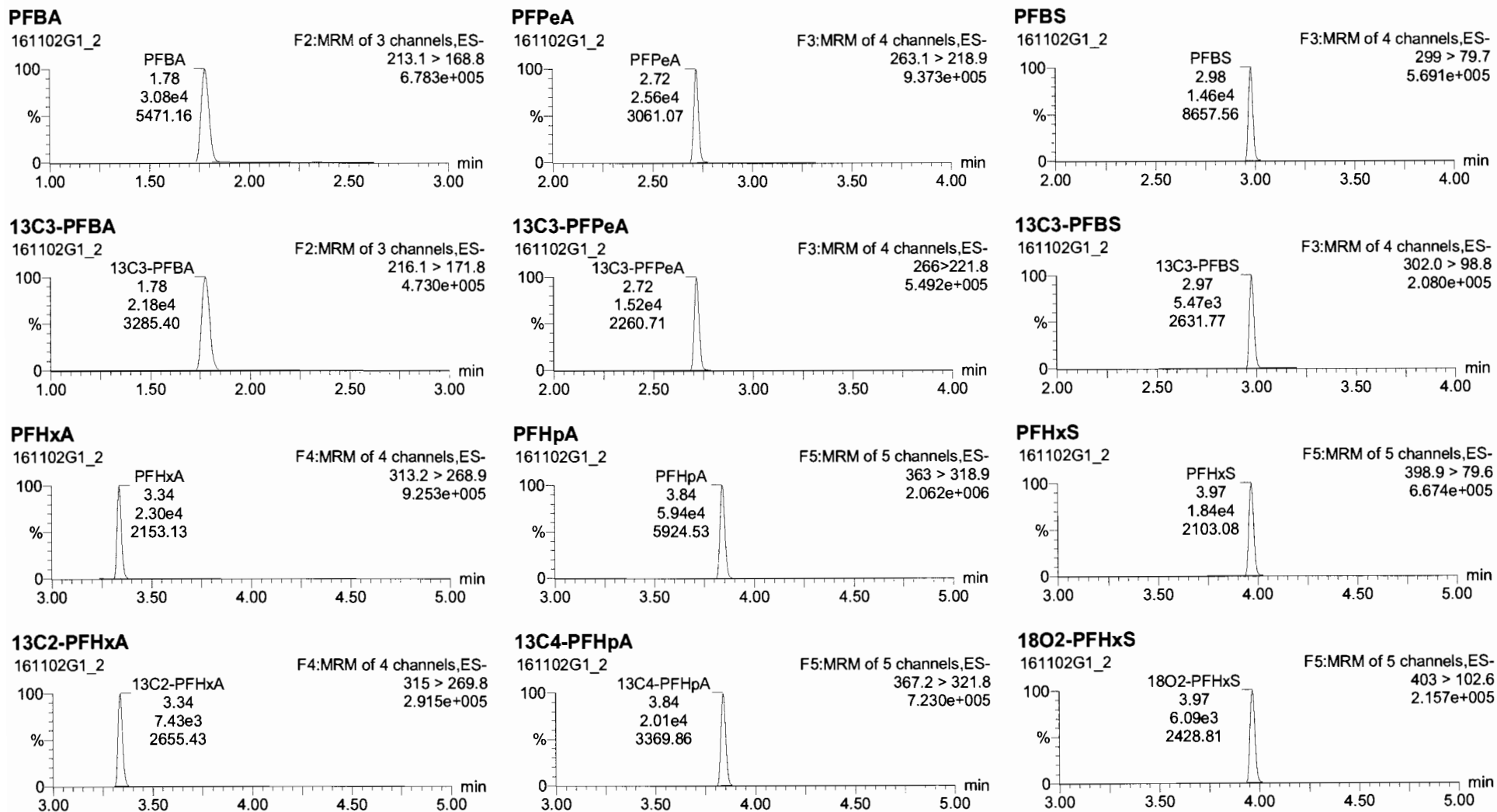
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Last Altered: Thursday, November 03, 2016 10:24:35 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:25:03 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

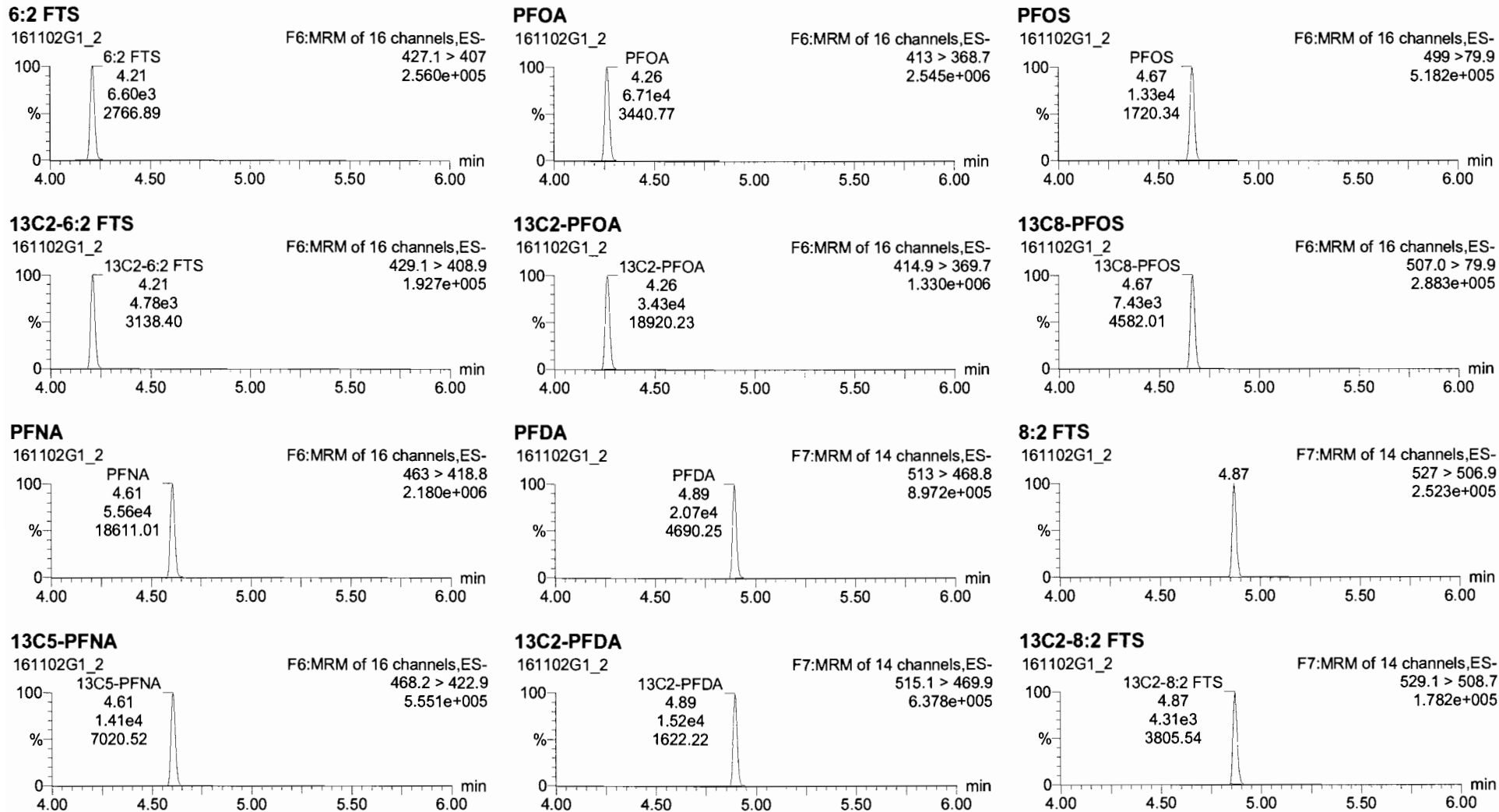
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Dataset: Untitled

Last Altered: Thursday, November 03, 2016 10:24:35 Pacific Daylight Time
Printed: Thursday, November 03, 2016 10:25:03 Pacific Daylight Time

Name: 161102G1_2, Date: 02-Nov-2016, Time: 11:06:37, ID: ST161102G1-1 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A

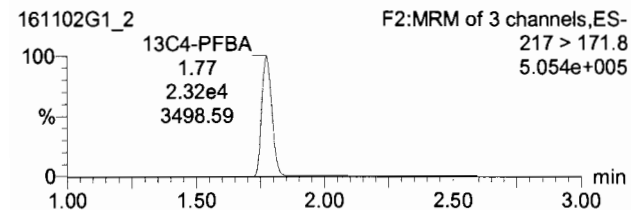


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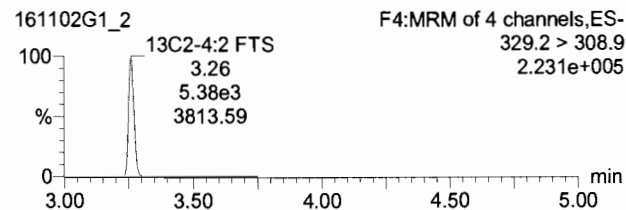
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Printed: Thursday, November 03, 2016 10:25:03 Pacific Daylight Time

Name: 161102G1_2, Date: 02-Nov-2016, Time: 11:06:37, ID: ST161102G1-1 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A

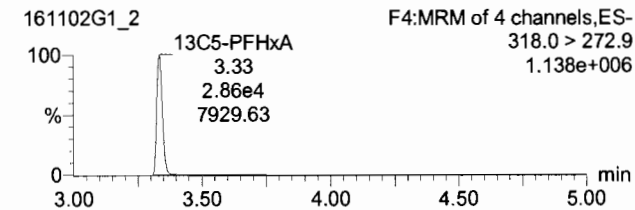
13C4-PFBA



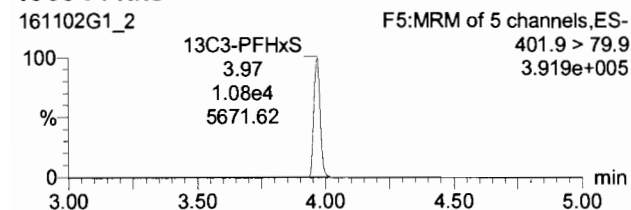
13C2-4:2 FTS



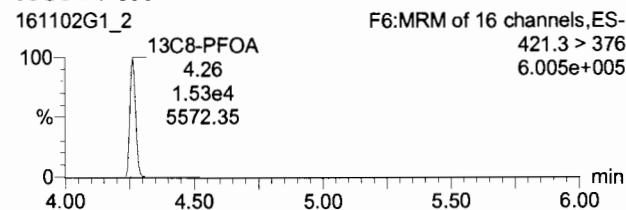
13C5-PFHxA



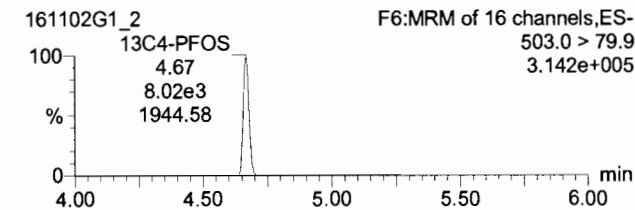
13C3-PFHxS



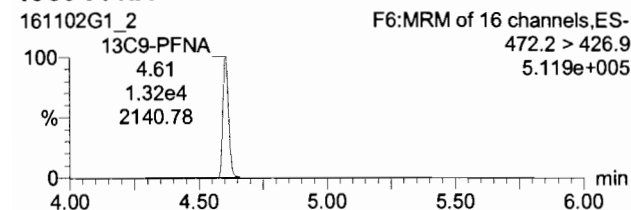
13C8-PFOA



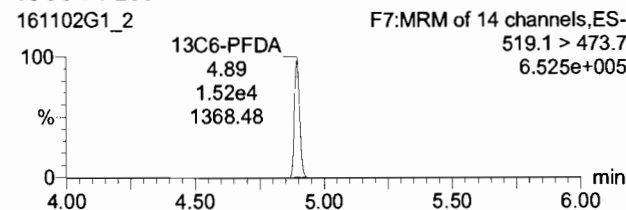
13C4-PFOS



13C9-PFNA



13C6-PFDA



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-18.qld

Last Altered: Thursday, November 03, 2016 10:28:44 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:29:05 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161102G1_18, Date: 02-Nov-2016, Time: 14:28:35, ID: ST161102G1-2 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	213.1 > 168.8	2.83e4	1.73e4	1.000	1.000	1.80	30.0	120.1
2	2 PFPeA	263.1 > 218.9	2.45e4	1.49e4	1.000	1.000	2.73	25.3	101.3
3	3 PFBS	299 > 79.7	1.53e4	5.64e3	1.000	1.000	2.99	24.7	98.6
4	4 PFHxA	313.2 > 268.9	2.40e4	7.53e3	1.000	1.000	3.35	27.3	109.4
5	5 PFHpA	363 > 318.9	5.89e4	1.99e4	1.000	1.000	3.85	26.1	104.2
6	6 PFHxS	398.9 > 79.6	1.81e4	5.81e3	1.000	1.000	3.98	26.5	106.0
7	7 6:2 FTS	427.1 > 407	5.34e3	4.59e3	1.000	1.000	4.22	24.2	96.8
8	8 PFOA	413 > 368.7	6.73e4	3.55e4	1.000	1.000	4.27	26.1	104.3
9	9 PFOS	499 > 79.9	1.31e4	7.48e3	1.000	1.000	4.67	25.4	101.8
10	10 PFNA	463 > 418.8	5.49e4	1.48e4	1.000	1.000	4.61	25.4	101.8
11	11 PFDA	513 > 468.8	2.00e4	1.47e4	1.000	1.000	4.90	26.7	106.6
12	12 8:2 FTS	527 > 506.9	5.24e3	4.44e3	1.000	1.000	4.88	25.7	102.6
13	13 13C3-PFBA	216.1 > 171.8	1.73e4	2.10e4	0.960	1.000	1.80	10.7	85.7
14	14 13C3-PFPeA	266 > 221.8	1.49e4	2.95e4	0.526	1.000	2.73	12.0	95.7
15	15 13C3-PFBS	302.0 > 98.8	5.64e3	2.95e4	0.209	1.000	2.99	11.5	91.7
16	16 13C2-PFHxA	315 > 269.8	7.53e3	2.95e4	0.655	1.000	3.35	4.87	97.4
17	17 13C4-PFHpA	367.2 > 321.8	1.99e4	1.13e4	1.904	1.000	3.85	11.6	93.0
18	18 18O2-PFHxS	403 > 102.6	5.81e3	1.13e4	0.580	1.000	3.98	11.1	89.0
19	19 13C2-6:2 FTS	429.1 > 408.9	4.59e3	4.86e3	0.896	1.000	4.22	13.2	105.4
20	20 13C2-PFOA	414.9 > 369.7	3.55e4	1.62e4	2.326	1.000	4.27	11.7	93.9
21	21 13C8-PFOS	507.0 > 79.9	7.48e3	7.83e3	0.982	1.000	4.67	12.1	97.2
22	22 13C5-PFNA	468.2 > 422.9	1.48e4	1.44e4	1.038	1.000	4.61	12.4	98.9
23	23 13C2-PFDA	515.1 > 469.9	1.47e4	1.45e4	1.053	1.000	4.90	12.0	96.4
24	24 13C2-8:2 FTS	529.1 > 508.7	4.44e3	4.86e3	0.635	1.000	4.88	18.0	143.7
25	25 13C4-PFBA	217 > 171.8	2.10e4	2.10e4	1.000	1.000	1.79	12.5	100.0
26	26 13C2-4:2 FTS	329.2 > 308.9	4.86e3	4.86e3	1.000	1.000	3.27	12.5	100.0
27	27 13C5-PFHxA	318.0 > 272.9	2.95e4	2.95e4	1.000	1.000	3.35	12.5	100.0
28	28 13C3-PFHxS	401.9 > 79.9	1.13e4	1.13e4	1.000	1.000	3.98	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.62e4	1.62e4	1.000	1.000	4.27	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	7.83e3	7.83e3	1.000	1.000	4.67	12.5	100.0
31	31 13C9-PFNA	472.2 > 426.9	1.44e4	1.44e4	1.000	1.000	4.61	12.5	100.0

15-125
 ↓
 60-150
 ↓
 40-150
 60-150
 ↓
 50-150
 60-150
 ↓
 40-150

AC
 11/3/14
 PW
 11/3/16

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161102G1\161102G1-18.qld

Last Altered: Thursday, November 03, 2016 10:28:44 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:29:05 Pacific Daylight Time

Name: 161102G1_18, Date: 02-Nov-2016, Time: 14:28:35, ID: ST161102G1-2 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
32	32 13C6-PFDA	519.1 > 473.7	1.45e4	1.45e4	1.000	1.000	4.90	12.5	100.0

Dataset: Untitled

Last Altered: Thursday, November 03, 2016 10:46:18 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:46:47 Pacific Daylight Time

Method: U:\G1.PROMethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Compound name: PFBA

	Name	ID	Acq Date	Acq Time
1	161102G1_1	IPA	02-Nov-16	10:53:59
2	161102G1_2	ST161102G1-1 PFC CS3.5 16K0201	02-Nov-16	11:06:37
3	161102G1_3	IPA	02-Nov-16	11:19:13
4	161102G1_4	B6J0184-BS1 OPR 1	02-Nov-16	11:31:51
5	161102G1_5	1601348-11@5X S6-MW-07_161024 0.13003	02-Nov-16	11:44:27
6	161102G1_6	1601348-14@10X S6-MW06_161024 0.12934	02-Nov-16	11:57:04
7	161102G1_7	B6J0178-MSD1 Matrix Spike Dup 0.125	02-Nov-16	12:09:41
8	161102G1_8	1601334-15 BERP05071 0.125	02-Nov-16	12:22:18
9	161102G1_9	1601370-06 OW11-MW5-1016 0.125	02-Nov-16	12:34:57
10	161102G1_10	B6K0001-MS1 Matrix Spike 0.125	02-Nov-16	12:47:35
11	161102G1_11	B6K0001-MSD1 Matrix Spike Dup 0.125	02-Nov-16	13:00:18
12	161102G1_12	1601370-07 OW11-MW6-1016 0.125	02-Nov-16	13:12:53
13	161102G1_13	1601370-08 OW11-MW4-1016 0.125	02-Nov-16	13:25:28
14	161102G1_14	1601370-09 MW-BG13-1016 0.125	02-Nov-16	13:38:05
15	161102G1_15	1601370-10 MW-BG13P-1016 0.125	02-Nov-16	13:50:42
16	161102G1_16	1601370-11 MW-BG12-1016 0.125	02-Nov-16	14:03:19
17	161102G1_17	IPA	02-Nov-16	14:15:57
18	161102G1_18	ST161102G1-2 PFC CS3.5 16K0201	02-Nov-16	14:28:35
19	161102G1_19	IPA	02-Nov-16	14:41:10
20	161102G1_20	B6K0004-BS1 OPR 0.125	02-Nov-16	15:06:45
21	161102G1_21	IPA	02-Nov-16	15:19:23
22	161102G1_22	B6K0004-BLK1 Method Blank 0.125	02-Nov-16	15:32:02
23	161102G1_23	1601347-13 KULPCA096 0.1247	02-Nov-16	15:44:41
24	161102G1_24	1601371-01 BERPXX062 0.12386	02-Nov-16	15:57:17
25	161102G1_25	B6K0004-MS1 Matrix Spike 0.12752	02-Nov-16	16:09:53
26	161102G1_26	B6K0004-MSD1 Matrix Spike Dup 0.12607	02-Nov-16	16:22:28
27	161102G1_27	1601371-02 BERP07035 0.11961	02-Nov-16	16:35:05
28	161102G1_28	1601371-03 BERP07040 0.12377	02-Nov-16	16:47:42
29	161102G1_29	1601371-04 BERP07044 0.1268	02-Nov-16	17:00:19
30	161102G1_30	1601371-05 BERP03006 0.12518	02-Nov-16	17:12:57
31	Work Order 1809170 161102G1_31	1601371-06 BERP03015 0.12083	02-Nov-16	17:25:36

Dataset: Untitled

Last Altered: Thursday, November 03, 2016 10:46:18 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:46:47 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	161102G1_32	B6K0004-MS2 Matrix Spike 0.12153	02-Nov-16	17:38:11
33	161102G1_33	B6K0004-MSD2 Matrix Spike Dup 0.12495	02-Nov-16	17:50:46
34	161102G1_34	1601371-07 BERPCA004 0.12545	02-Nov-16	18:03:22
35	161102G1_35	1601371-08 BERPCA001 0.1267	02-Nov-16	18:15:58
36	161102G1_36	1601371-09 BERP07072 0.1256	02-Nov-16	18:28:35
37	161102G1_37	IPA	02-Nov-16	18:41:13
38	161102G1_38	ST161102G1-3 PFC CS3.5 16K0201	02-Nov-16	18:53:50
39	161102G1_39	IPA	02-Nov-16	19:06:24
40	161102G1_40	1601371-10 BERPCA002 0.12175	02-Nov-16	19:19:03
41	161102G1_41	1601371-11 BERP05028 0.12566	02-Nov-16	19:31:41
42	161102G1_42	IPA	02-Nov-16	19:44:20
43	161102G1_43	ST161102G1-4 PFC CS3.5 16K0201	02-Nov-16	19:56:59
44	161102G1_44	IPA	02-Nov-16	20:09:35

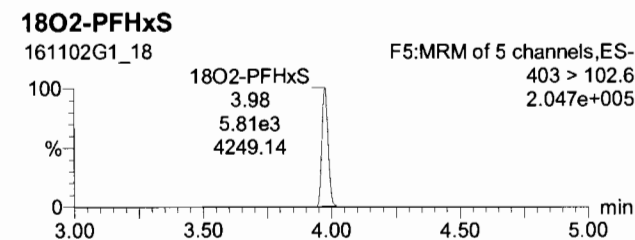
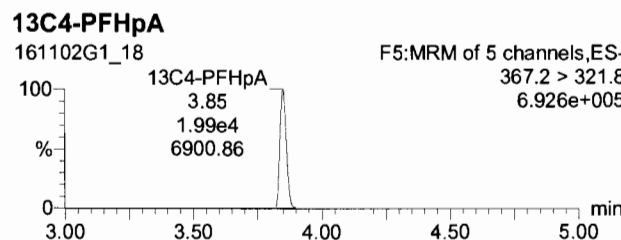
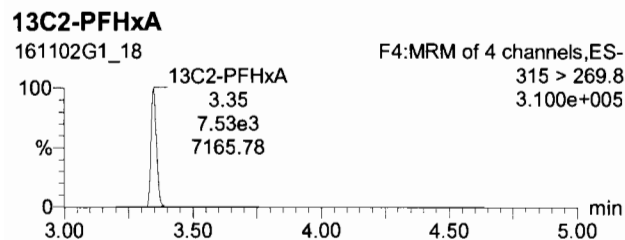
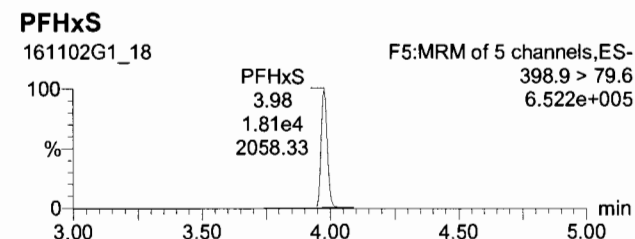
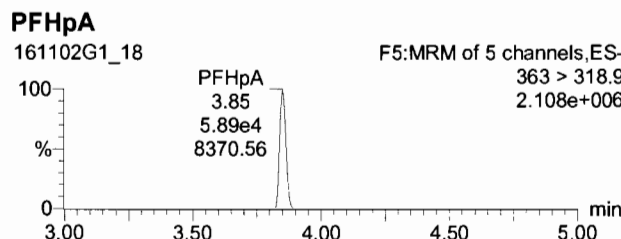
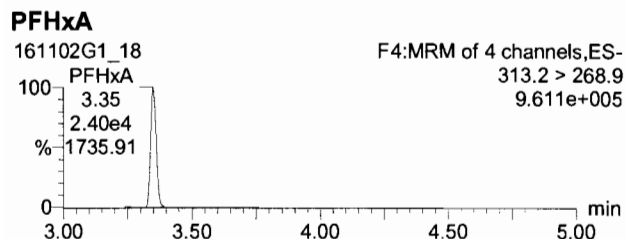
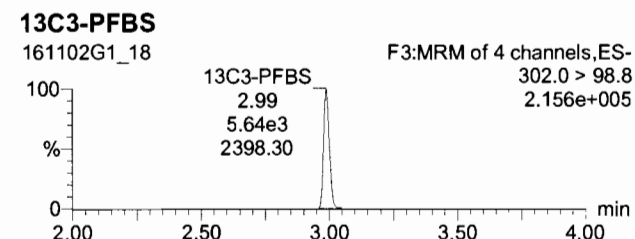
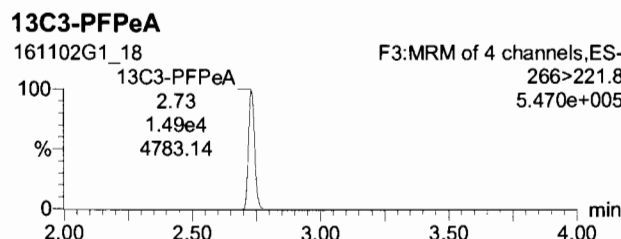
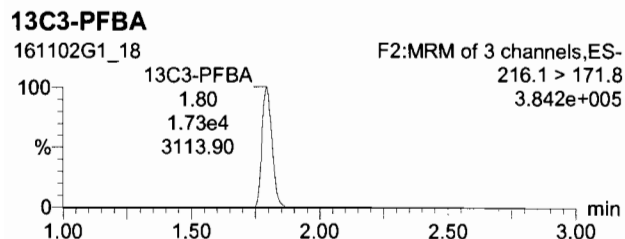
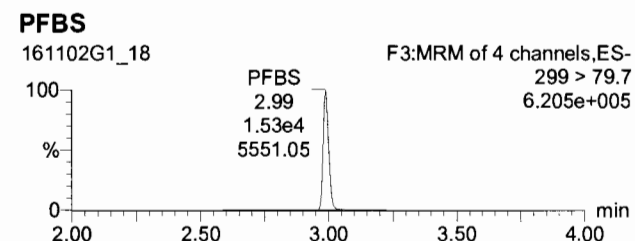
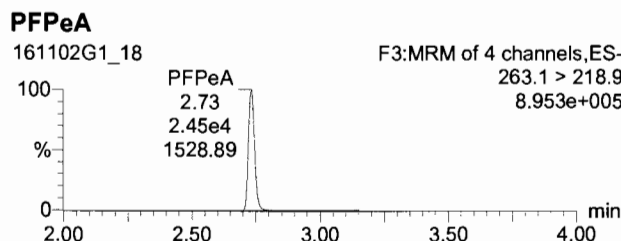
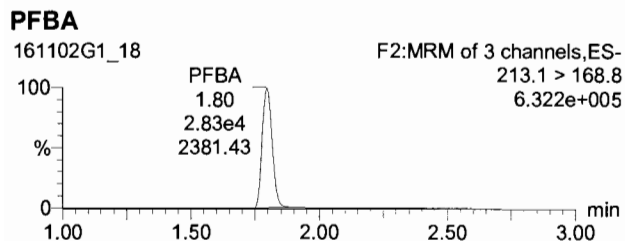
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Last Altered: Thursday, November 03, 2016 10:25:11 Pacific Daylight Time

Printed: Thursday, November 03, 2016 10:25:14 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 13:33:38
Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

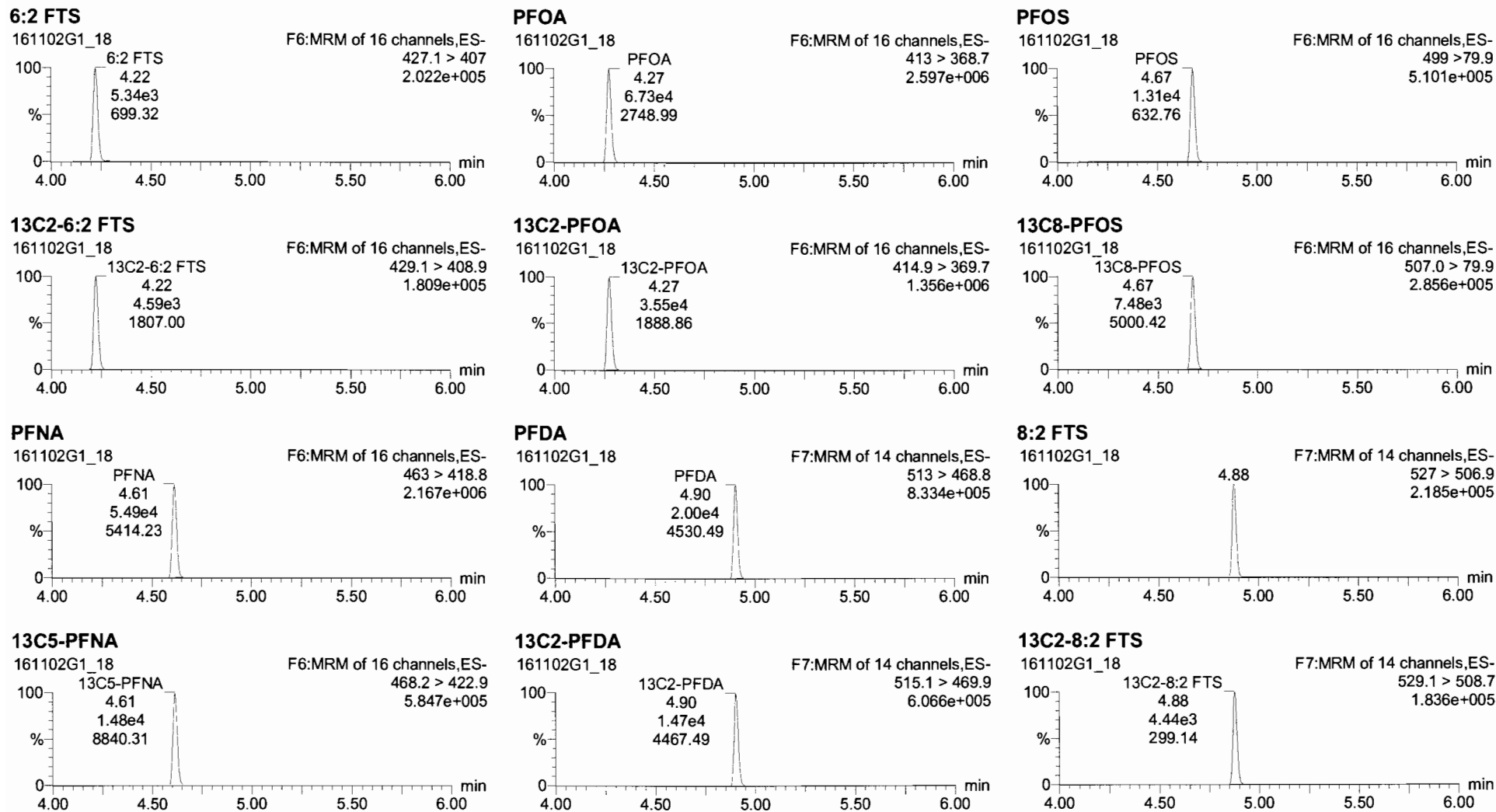
Name: 161102G1_18, Date: 02-Nov-2016, Time: 14:28:35, ID: ST161102G1-2 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A



Dataset: Untitled

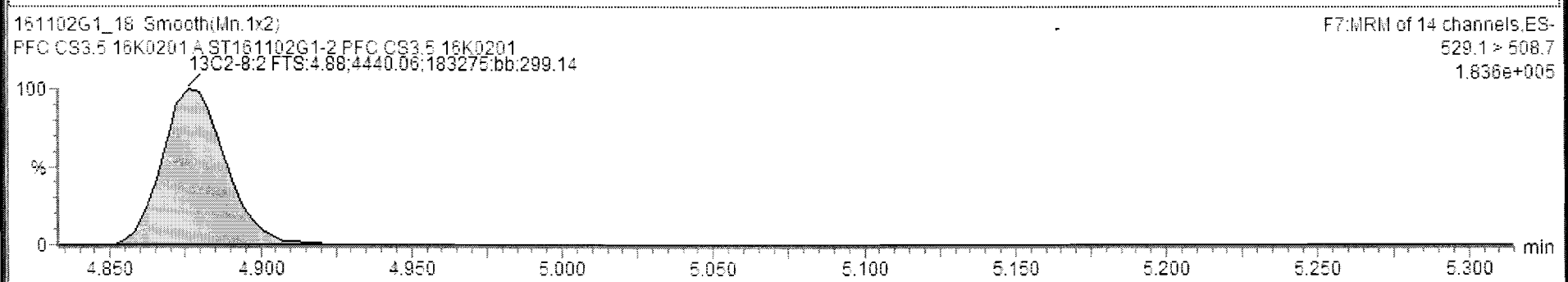
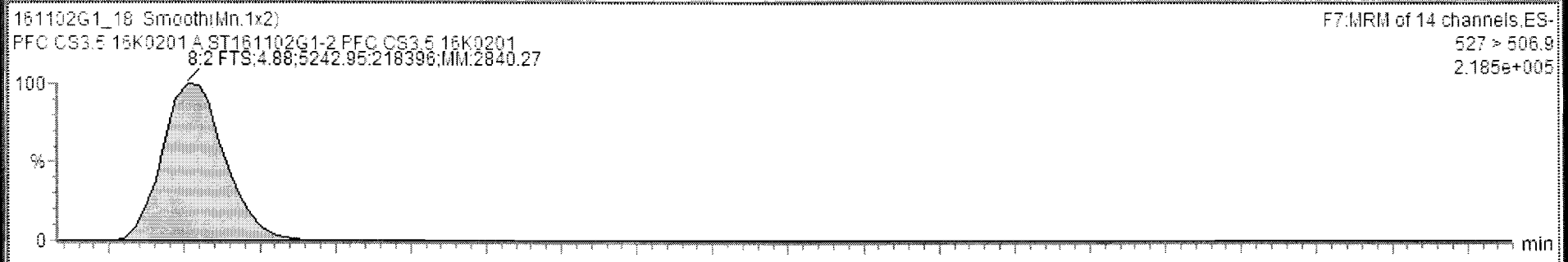
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Name: 161102G1_18, Date: 02-Nov-2016, Time: 14:28:35, ID: ST161102G1-2 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A



161102G1_18 - ST161102G1-2 PFC CS3.5 16K0201 - PFC CS3.5 16K0201 A

Name	Trace	Area	RRF	Wt/Vol	Pred. RT	RT	Conc.	>MDL	%Rec	DL
7	6:2 FTS	427.1 > 407		1.000	4.22	4.22	24.2	YES	96.8	0.1121861
8	PFOA	413 > 368.7		1.000	4.27	4.27	26.1	YES	104.3	0.0075080
9	PFOS	499 > 79.9		1.000	4.68	4.67	25.4	YES	101.8	0.1554687
10	PFNA	463 > 418.8		1.000	4.61	4.61	25.4	YES	101.8	0.0446871
11	PFDA	513 > 468.8		1.000	4.90	4.90	26.7	NO	106.6	0.0410996
12	8:2 FTS	527 > 506.9		1.000	4.88	4.88	25.7	YES	102.6	0.0324802
13	13C3-PFBA	216.1 > 171.8	0.960	1.000	1.79	1.80	10.7	NO	85.7	0.0087488
14	13C3-PFPeA	266 > 221.8	0.528	1.000	2.74	2.73	12.0	NO	95.7	0.0056516
15	13C3-PFBS	302.0 > 98.8	0.209	1.000	2.99	2.99	11.5	NO	91.7	0.0112093
16	13C2-PFHxA	315 > 269.8	0.655	1.000	3.35	3.35	4.87	NO	97.4	0.0017159
17	13C4-PFHpA	367.2 > 321.8	1.90	1.000	3.88	3.85	11.6	NO	93.0	0.0042108
18	18O2-PFHxS	403 > 102.6	0.580	1.000	3.98	3.98	11.1	NO	89.0	0.0066362

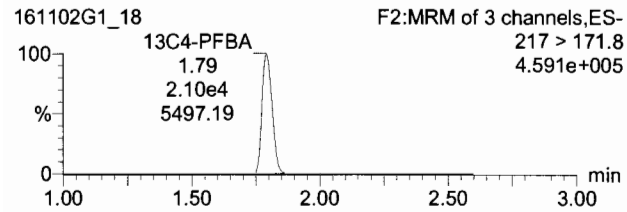


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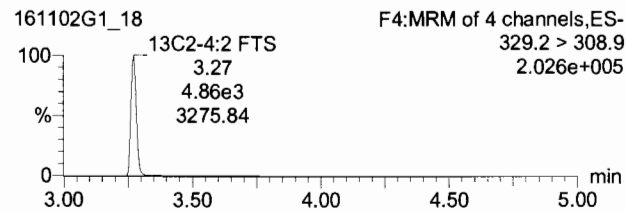
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Printed: Thursday, November 03, 2016 10:25:14 Pacific Daylight Time

Name: 161102G1_18, Date: 02-Nov-2016, Time: 14:28:35, ID: ST161102G1-2 PFC CS3.5 16K0201, Description: PFC CS3.5 16K0201 A

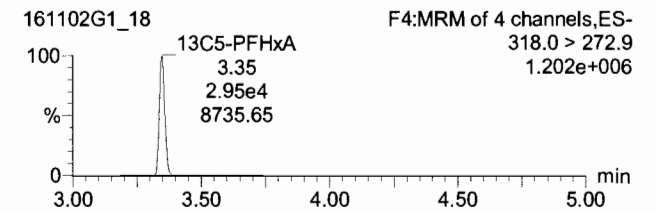
13C4-PFBA



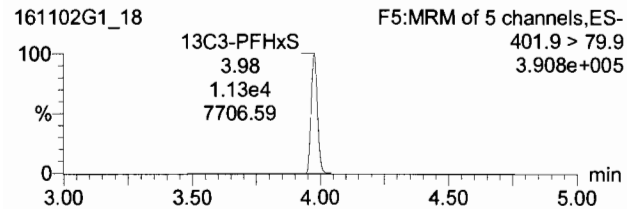
13C2-4:2 FTS



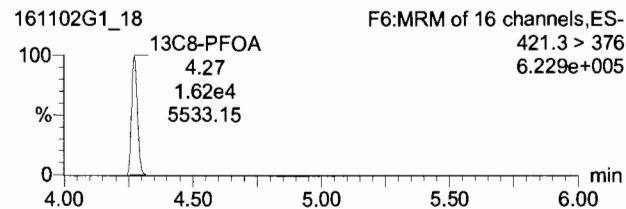
13C5-PFHxA



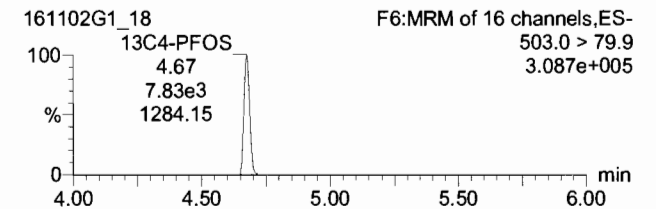
13C3-PFHxS



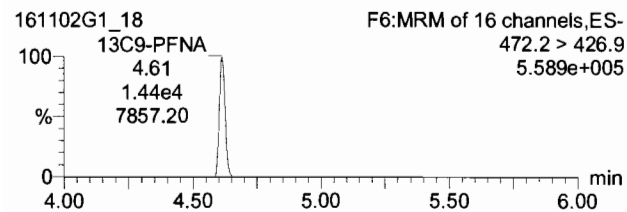
13C8-PFOA



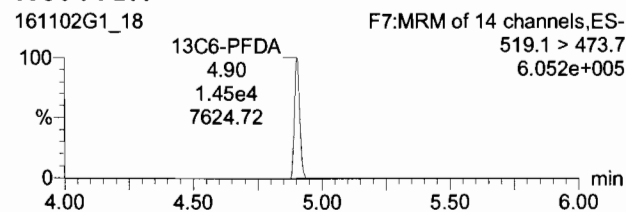
13C4-PFOS



13C9-PFNA



13C6-PFDA



INITIAL CALIBRATION

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:23:42 Pacific Daylight Time

Scanned 11-1-16

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 28 Oct 2016 10:49:06

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Compound name: PFBA

Correlation coefficient: $r = 0.999461$, $r^2 = 0.998922$

Calibration curve: $0.68025 * x + -0.00224366$

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	161031G2_2	0.125	1.75	2.80e2	1.84e4	0.283	1.52	126.4
2	161031G2_3	0.500	1.76	4.94e2	1.93e4	0.475	0.641	-5.0
3	161031G2_4	1.00	1.76	1.01e3	1.89e4	0.991	0.672	-0.9
4	161031G2_5	2.00	1.77	2.56e3	2.36e4	2.00	0.678	-0.2
5	161031G2_6	5.00	1.77	6.14e3	2.53e4	4.47	0.607	-10.6
6	161031G2_7	10.0	1.78	1.53e4	2.55e4	11.0	0.751	10.5
7	161031G2_8	25.0	1.76	2.81e4	1.97e4	26.2	0.713	4.9
8	161031G2_9	50.0	1.78	6.07e4	2.21e4	50.4	0.686	0.9
9	161031G2_10	75.0	1.77	8.44e4	2.07e4	75.1	0.681	0.1
10	161031G2_11	100	1.78	1.03e5	1.94e4	97.8	0.665	-2.2

*AC
11/1/16
PLW
11/1/16*

Compound name: PFPeA

Correlation coefficient: $r = 0.999481$, $r^2 = 0.998962$

Calibration curve: $0.813936 * x + -0.0179966$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	161031G2_2	0.125	2.71	2.27e2	1.39e4	0.274	1.64	119.0
2	161031G2_3	0.500	2.71	4.19e2	1.45e4	0.466	0.722	-6.9
3	161031G2_4	1.00	2.71	8.68e2	1.42e4	0.960	0.763	-4.0
4	161031G2_5	2.00	2.71	2.33e3	1.95e4	1.85	0.745	-7.3
5	161031G2_6	5.00	2.71	5.58e3	1.96e4	4.39	0.712	-12.1
6	161031G2_7	10.0	2.71	1.36e4	1.94e4	10.8	0.875	7.8
7	161031G2_8	25.0	2.71	2.41e4	1.40e4	26.5	0.862	5.9
8	161031G2_9	50.0	2.71	5.22e4	1.59e4	50.6	0.823	1.2
9	Work Order 1601370 161031G2_10	75.0	2.71	6.99e4	1.44e4	74.4	0.807	-0.8

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:23:42 Pacific Daylight Time

Compound name: PFPeA

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
10	10 161031G2_11	100	2.71	8.60e4	1.34e4	98.6	0.802	-1.4

Compound name: PFBS

Correlation coefficient: $r = 0.999367$, $r^2 = 0.998735$

Calibration curve: $1.38406 * x + -0.0911461$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	2.97	1.35e2	5.87e3	0.274	2.30	119.0
2	2 161031G2_3	0.500	2.97	2.37e2	5.52e3	0.453	1.07	-9.3
3	3 161031G2_4	1.00	2.97	5.27e2	5.45e3	0.938	1.21	-6.2
4	4 161031G2_5	2.00	2.97	1.36e3	7.77e3	1.64	1.09	-17.9
5	5 161031G2_6	5.00	2.97	3.56e3	8.15e3	4.02	1.09	-19.7
6	6 161031G2_7	10.0	2.97	8.43e3	7.72e3	9.92	1.36	-0.8
7	7 161031G2_8	25.0	2.97	1.54e4	5.55e3	25.0	1.38	0.1
8	8 161031G2_9	50.0	2.97	3.34e4	6.10e3	49.5	1.37	-1.0
9	9 161031G2_10	75.0	2.97	4.71e4	5.64e3	75.5	1.39	0.7
10	10 161031G2_11	100	2.97	5.89e4	5.25e3	101	1.40	1.5

Compound name: PFHxA

Correlation coefficient: $r = 0.999560$, $r^2 = 0.999121$

Calibration curve: $0.583416 * x + 0.0113256$

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	3.33	2.70e2	7.14e3	0.305	1.51	143.6
2	2 161031G2_3	0.500	3.33	4.48e2	7.12e3	0.520	0.629	3.9
3	3 161031G2_4	1.00	3.33	8.88e2	6.75e3	1.11	0.658	10.9
4	4 161031G2_5	2.00	3.33	2.23e3	9.15e3	2.07	0.610	3.5
5	5 161031G2_6	5.00	3.33	5.10e3	9.65e3	4.51	0.528	-9.8
6	6 161031G2_7	10.0	3.33	1.19e4	9.58e3	10.6	0.622	6.4
7	7 161031G2_8	25.0	3.33	2.15e4	7.18e3	25.6	0.597	2.3

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:23:42 Pacific Daylight Time

Compound name: PFHxA

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
8	8 161031G2_9	50.0	3.33	4.80e4	8.46e3	48.6	0.567	-2.8
9	9 161031G2_10	75.0	3.33	6.44e4	7.17e3	76.9	0.599	2.6
10	10 161031G2_11	100	3.33	7.76e4	6.75e3	98.5	0.575	-1.5

Compound name: PFHpA

Correlation coefficient: $r = 0.999484$, $r^2 = 0.998969$

Calibration curve: $1.41793 * x + -0.0299716$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	3.84	5.59e2	1.95e4	0.274	2.87	119.3
2	2 161031G2_3	0.500	3.84	1.01e3	1.89e4	0.491	1.33	-1.8
3	3 161031G2_4	1.00	3.84	2.13e3	1.89e4	1.01	1.41	1.5
4	4 161031G2_5	2.00	3.84	5.53e3	2.70e4	1.83	1.28	-8.6
5	5 161031G2_6	5.00	3.84	1.32e4	2.77e4	4.22	1.19	-15.7
6	6 161031G2_7	10.0	3.84	3.07e4	2.59e4	10.5	1.48	4.9
7	7 161031G2_8	25.0	3.84	5.59e4	1.88e4	26.2	1.48	4.7
8	8 161031G2_9	50.0	3.84	1.21e5	2.19e4	48.6	1.38	-2.9
9	9 161031G2_10	75.0	3.84	1.59e5	1.85e4	75.8	1.43	1.0
10	10 161031G2_11	100	3.84	1.97e5	1.74e4	100	1.42	-0.0

Compound name: PFHxS

Correlation coefficient: $r = 0.999820$, $r^2 = 0.999641$

Calibration curve: $1.47313 * x + -0.0188609$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	3.97	2.26e2	6.32e3	0.317	3.58	153.5
2	2 161031G2_3	0.500	3.97	3.01e2	5.78e3	0.455	1.30	-9.1
3	3 161031G2_4	1.00	3.97	7.65e2	5.97e3	1.10	1.60	9.9
4	4 161031G2_5	2.00	3.97	1.68e3	7.61e3	1.89	1.38	-5.7
5	5 161031G2_6	5.00	3.97	4.11e3	7.74e3	4.52	1.33	-9.5

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Compound name: PFHxS

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
6	6 161031G2_7	10.0	3.97	9.31e3	7.65e3	10.3	1.52	3.4
7	7 161031G2_8	25.0	3.97	1.79e4	5.99e3	25.4	1.50	1.6
8	8 161031G2_9	50.0	3.97	3.77e4	6.47e3	49.4	1.46	-1.2
9	9 161031G2_10	75.0	3.97	5.18e4	5.87e3	74.9	1.47	-0.1
10	10 161031G2_11	100	3.97	6.57e4	5.55e3	100	1.48	0.4

Compound name: 6:2 FTS

Coefficient of Determination: R^2 = 0.995986

Calibration curve: $-0.00237607 * x^2 + 0.658455 * x + -0.0238852$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	4.22	4.80e1	4.02e3	0.263	1.19	110.5
2	2 161031G2_3	0.500	4.22	1.48e2	4.68e3	0.636	0.787	27.1
3	3 161031G2_4	1.00	4.22	1.57e2	4.37e3	0.720	0.449	-28.0
4	4 161031G2_5	2.00	4.21	5.59e2	5.75e3	1.90	0.608	-5.2
5	5 161031G2_6	5.00	4.21	1.13e3	4.60e3	4.80	0.617	-3.9
6	6 161031G2_7	10.0	4.22	3.08e3	5.43e3	11.3	0.709	12.6
7	7 161031G2_8	25.0	4.22	5.94e3	5.35e3	23.0	0.554	-8.0
8	8 161031G2_9	50.0	4.22	1.31e4	5.81e3	53.1	0.565	6.2
9	9 161031G2_10	75.0	4.22	1.84e4	6.51e3	73.1	0.472	-2.5
10	10 161031G2_11	100	4.21	2.54e4	6.76e3		0.469	

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Compound name: PFOA

Correlation coefficient: $r = 0.999034$, $r^2 = 0.998070$

Calibration curve: $0.909667 * x + 0.0149722$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	4.27	7.77e2	3.38e4	0.299	2.30	139.1
2	2 161031G2_3	0.500	4.27	1.17e3	3.23e4	0.484	0.910	-3.2
3	3 161031G2_4	1.00	4.27	2.57e3	3.39e4	1.03	0.949	2.7
4	4 161031G2_5	2.00	4.27	6.23e3	3.92e4	2.17	0.993	8.3
5	5 161031G2_6	5.00	4.27	1.27e4	3.89e4	4.47	0.817	-10.5
6	6 161031G2_7	10.0	4.27	3.26e4	4.02e4	11.1	1.01	11.3
7	7 161031G2_8	25.0	4.27	6.29e4	3.26e4	26.5	0.963	5.8
8	8 161031G2_9	50.0	4.27	1.26e5	3.44e4	50.5	0.918	0.9
9	9 161031G2_10	75.0	4.27	1.69e5	3.04e4	76.6	0.929	2.1
10	10 161031G2_11	100	4.27	2.08e5	2.98e4	95.7	0.871	-4.3

Compound name: PFOS

Correlation coefficient: $r = 0.997673$, $r^2 = 0.995352$

Calibration curve: $0.860271 * x + -0.0456852$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	4.68	4.35e1	6.51e3	0.150	0.667	20.1
2	2 161031G2_3	0.500	4.68	1.51e2	6.84e3	0.375	0.554	-25.0
3	3 161031G2_4	1.00	4.68	4.35e2	6.84e3	0.977	0.795	-2.3
4	4 161031G2_5	2.00	4.68	6.62e2	5.97e3	1.66	0.693	-16.8
5	5 161031G2_6	5.00	4.68	1.73e3	5.84e3	4.36	0.741	-12.8
6	6 161031G2_7	10.0	4.68	4.20e3	6.58e3	9.33	0.798	-6.7
7	7 161031G2_8	25.0	4.68	1.22e4	7.03e3	25.3	0.867	1.0
8	8 161031G2_9	50.0	4.68	2.01e4	5.79e3	50.5	0.867	0.9
9	9 161031G2_10	75.0	4.68	2.73e4	5.76e3	69.0	0.791	-8.0
10	10 161031G2_11	100	4.68	3.99e4	5.42e3	107	0.921	7.1

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Compound name: PFNA

Correlation coefficient: $r = 0.999491$, $r^2 = 0.998982$

Calibration curve: $1.82913 * x + -0.0603589$

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	4.62	3.93e2	1.18e4	0.260	3.32	108.1
2	2 161031G2_3	0.500	4.61	7.89e2	1.24e4	0.468	1.59	-6.5
3	3 161031G2_4	1.00	4.61	1.64e3	1.29e4	0.905	1.60	-9.5
4	4 161031G2_5	2.00	4.61	3.81e3	1.34e4	1.98	1.78	-1.0
5	5 161031G2_6	5.00	4.61	9.10e3	1.53e4	4.10	1.49	-18.0
6	6 161031G2_7	10.0	4.61	2.25e4	1.44e4	10.7	1.96	7.3
7	7 161031G2_8	25.0	4.61	4.87e4	1.31e4	25.4	1.85	1.5
8	8 161031G2_9	50.0	4.61	9.78e4	1.33e4	50.1	1.83	0.3
9	9 161031G2_10	75.0	4.61	1.28e5	1.19e4	73.9	1.80	-1.5
10	10 161031G2_11	100	4.61	1.71e5	1.16e4	101	1.85	0.9

Compound name: PFDA

Correlation coefficient: $r = 0.999184$, $r^2 = 0.998369$

Calibration curve: $0.639934 * x + -0.0168263$

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	4.90	2.00e2	1.23e4	0.344	1.62	174.8
2	2 161031G2_3	0.500	4.90	2.37e2	1.16e4	0.427	0.513	-14.6
3	3 161031G2_4	1.00	4.90	7.00e2	1.25e4	1.12	0.698	11.7
4	4 161031G2_5	2.00	4.91	8.69e2	1.02e4	1.69	0.531	-15.7
5	5 161031G2_6	5.00	4.90	2.20e3	9.53e3	4.53	0.576	-9.4
6	6 161031G2_7	10.0	4.90	5.28e3	1.04e4	9.96	0.636	-0.4
7	7 161031G2_8	25.0	4.91	1.90e4	1.35e4	27.5	0.703	10.0
8	8 161031G2_9	50.0	4.90	2.82e4	1.11e4	49.8	0.637	-0.5
9	9 161031G2_10	75.0	4.90	3.95e4	1.06e4	73.1	0.623	-2.6
10	10 161031G2_11	100	4.90	5.75e4	1.12e4	100	0.643	0.5

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Compound name: 8:2 FTS

Coefficient of Determination: R² = 0.998338

Calibration curve: -0.00108686 * x² + 0.603513 * x + -0.00649023

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#.Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	0.125	4.89	1.02e1	4.04e3	0.0632	0.253	-49.4
2	2 161031G2_3	0.500	4.88	7.10e1	3.52e3	0.430	0.505	-14.1
3	3 161031G2_4	1.00	4.88	2.05e2	3.75e3	1.14	0.683	14.4
4	4 161031G2_5	2.00	4.88	3.27e2	3.64e3	1.88	0.561	-6.2
5	5 161031G2_6	5.00	4.88	6.54e2	3.10e3	4.41	0.527	-11.7
6	6 161031G2_7	10.0	4.88	1.86e3	3.58e3	11.0	0.648	9.7
7	7 161031G2_8	25.0	4.88	5.44e3	4.68e3	25.2	0.581	1.0
8	8 161031G2_9	50.0	4.88	7.39e3	3.45e3	48.7	0.536	-2.7
9	9 161031G2_10	75.0	4.88	1.13e4	3.57e3	75.8	0.527	1.1
10	10 161031G2_11	100	4.88	1.37e4	3.78e3	89.5	0.453	-10.5

Compound name: 13C3-PFBA

Response Factor: 0.960091

RRF SD: 0.0428692, Relative SD: 4.46512

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	#.Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	1.75	1.84e4	2.12e4	11.3	0.869	-9.5
2	2 161031G2_3	12.5	1.75	1.93e4	1.96e4	12.8	0.983	2.4
3	3 161031G2_4	12.5	1.76	1.89e4	2.04e4	12.1	0.926	-3.5
4	4 161031G2_5	12.5	1.77	2.36e4	2.55e4	12.1	0.928	-3.3
5	5 161031G2_6	12.5	1.77	2.53e4	2.58e4	12.7	0.978	1.9
6	6 161031G2_7	12.5	1.77	2.55e4	2.63e4	12.6	0.967	0.7
7	7 161031G2_8	12.5	1.76	1.97e4	2.06e4	12.4	0.954	-0.6
8	8 161031G2_9	12.5	1.77	2.21e4	2.18e4	13.2	1.01	5.5
9	9 161031G2_10	12.5	1.77	2.07e4	2.11e4	12.7	0.978	1.8
10	10 161031G2_11	12.5	1.77	1.94e4	1.93e4	13.1	1.00	4.6

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Compound name: 13C3-PFPeA

Response Factor: 0.526437

RRF SD: 0.0235287, Relative SD: 4.46942

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	2.71	1.39e4	2.94e4	11.2	0.472	-10.4
2	2 161031G2_3	12.5	2.71	1.45e4	2.79e4	12.3	0.519	-1.4
3	3 161031G2_4	12.5	2.71	1.42e4	2.75e4	12.3	0.517	-1.8
4	4 161031G2_5	12.5	2.71	1.95e4	3.57e4	13.0	0.547	3.9
5	5 161031G2_6	12.5	2.71	1.96e4	3.66e4	12.7	0.536	1.8
6	6 161031G2_7	12.5	2.71	1.94e4	3.54e4	13.0	0.548	4.1
7	7 161031G2_8	12.5	2.71	1.40e4	2.71e4	12.3	0.517	-1.7
8	8 161031G2_9	12.5	2.71	1.59e4	3.04e4	12.4	0.522	-0.8
9	9 161031G2_10	12.5	2.71	1.44e4	2.71e4	12.7	0.533	1.2
10	10 161031G2_11	12.5	2.71	1.34e4	2.42e4	13.1	0.554	5.1

Compound name: 13C3-PFBS

Response Factor: 0.208518

RRF SD: 0.00950459, Relative SD: 4.55817

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	2.97	5.87e3	2.94e4	12.0	0.200	-4.1
2	2 161031G2_3	12.5	2.97	5.52e3	2.79e4	11.9	0.198	-5.2
3	3 161031G2_4	12.5	2.97	5.45e3	2.75e4	11.9	0.198	-4.8
4	4 161031G2_5	12.5	2.97	7.77e3	3.57e4	13.1	0.218	4.4
5	5 161031G2_6	12.5	2.97	8.15e3	3.66e4	13.4	0.223	6.8
6	6 161031G2_7	12.5	2.97	7.72e3	3.54e4	13.1	0.218	4.6
7	7 161031G2_8	12.5	2.97	5.55e3	2.71e4	12.3	0.205	-1.7
8	8 161031G2_9	12.5	2.97	6.10e3	3.04e4	12.0	0.201	-3.8
9	9 161031G2_10	12.5	2.97	5.64e3	2.71e4	12.5	0.208	-0.2
10	10 161031G2_11	12.5	2.97	5.25e3	2.42e4	13.0	0.217	4.0

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Compound name: 13C2-PFHxA

Response Factor: 0.655239

RRF SD: 0.0306909, Relative SD: 4.68393

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc	RRF	%Dev
1	161031G2_2	5.00	3.33	7.14e3	2.94e4	4.64	0.607	-7.3
2	161031G2_3	5.00	3.33	7.12e3	2.79e4	4.86	0.637	-2.7
3	161031G2_4	5.00	3.33	6.75e3	2.75e4	4.68	0.614	-6.4
4	161031G2_5	5.00	3.33	9.15e3	3.57e4	4.89	0.641	-2.2
5	161031G2_6	5.00	3.33	9.65e3	3.66e4	5.03	0.659	0.6
6	161031G2_7	5.00	3.33	9.58e3	3.54e4	5.16	0.676	3.2
7	161031G2_8	5.00	3.33	7.18e3	2.71e4	5.06	0.663	1.2
8	161031G2_9	5.00	3.33	8.46e3	3.04e4	5.31	0.696	6.2
9	161031G2_10	5.00	3.33	7.17e3	2.71e4	5.05	0.662	1.0
10	161031G2_11	5.00	3.33	6.75e3	2.42e4	5.32	0.697	6.4

Compound name: 13C4-PFHpA

Response Factor: 1.90441

RRF SD: 0.176698, Relative SD: 9.27835

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc	RRF	%Dev
1	161031G2_2	12.5	3.84	1.95e4	1.14e4	11.3	1.72	-9.9
2	161031G2_3	12.5	3.84	1.89e4	1.07e4	11.6	1.76	-7.5
3	161031G2_4	12.5	3.84	1.89e4	1.13e4	11.0	1.68	-12.0
4	161031G2_5	12.5	3.84	2.70e4	1.28e4	13.8	2.11	10.8
5	161031G2_6	12.5	3.84	2.77e4	1.30e4	14.0	2.14	12.3
6	161031G2_7	12.5	3.84	2.59e4	1.29e4	13.2	2.01	5.4
7	161031G2_8	12.5	3.84	1.88e4	1.03e4	12.0	1.84	-3.6
8	161031G2_9	12.5	3.84	2.19e4	1.03e4	14.0	2.13	11.6
9	161031G2_10	12.5	3.84	1.85e4	9.85e3	12.3	1.87	-1.6
10	161031G2_11	12.5	3.84	1.74e4	9.65e3	11.8	1.80	-5.5

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Compound name: 18O2-PFHxS

Response Factor: 0.579645

RRF SD: 0.0295666, Relative SD: 5.1008

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	3.97	6.32e3	1.14e4	12.0	0.556	-4.0
2	2 161031G2_3	12.5	3.96	5.78e3	1.07e4	11.7	0.540	-6.8
3	3 161031G2_4	12.5	3.97	5.97e3	1.13e4	11.4	0.530	-8.5
4	4 161031G2_5	12.5	3.97	7.61e3	1.28e4	12.8	0.595	2.7
5	5 161031G2_6	12.5	3.97	7.74e3	1.30e4	12.9	0.597	3.0
6	6 161031G2_7	12.5	3.96	7.65e3	1.29e4	12.8	0.594	2.5
7	7 161031G2_8	12.5	3.97	5.99e3	1.03e4	12.6	0.584	0.7
8	8 161031G2_9	12.5	3.97	6.47e3	1.03e4	13.5	0.628	8.3
9	9 161031G2_10	12.5	3.97	5.87e3	9.85e3	12.9	0.596	2.8
10	10 161031G2_11	12.5	3.97	5.55e3	9.65e3	12.4	0.576	-0.7

Compound name: 13C2-6:2 FTS

Response Factor: 0.896189

RRF SD: 0.116569, Relative SD: 13.0072

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	4.22	4.02e3	5.12e3	11.0	0.785	-12.4
2	2 161031G2_3	12.5	4.22	4.68e3	4.88e3	13.4	0.959	7.0
3	3 161031G2_4	12.5	4.22	4.37e3	5.08e3	12.0	0.861	-4.0
4	4 161031G2_5	12.5	4.22	5.75e3	6.44e3	12.5	0.893	-0.3
5	5 161031G2_6	12.5	4.21	4.60e3	6.65e3	9.64	0.691	-22.9
6	6 161031G2_7	12.5	4.21	5.43e3	6.58e3	11.5	0.826	-7.8
7	7 161031G2_8	12.5	4.22	5.35e3	5.54e3	13.5	0.966	7.8
8	8 161031G2_9	12.5	4.22	5.81e3	6.56e3	12.4	0.887	-1.1
9	9 161031G2_10	12.5	4.22	6.51e3	6.59e3	13.8	0.987	10.1
10	10 161031G2_11	12.5	4.22	6.76e3	6.11e3	15.4	1.11	23.5

Vista Analytical Laboratory Q1

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Compound name: 13C2-PFOA

Response Factor: 2.32598

RRF SD: 0.105036, Relative SD: 4.51575

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc	RRF	%Dev
1	1 161031G2_2	12.5	4.27	3.38e4	1.48e4	12.3	2.28	-1.8
2	2 161031G2_3	12.5	4.27	3.23e4	1.38e4	12.5	2.33	0.2
3	3 161031G2_4	12.5	4.27	3.39e4	1.56e4	11.6	2.17	-6.9
4	4 161031G2_5	12.5	4.27	3.92e4	1.68e4	12.6	2.34	0.5
5	5 161031G2_6	12.5	4.27	3.89e4	1.71e4	12.2	2.27	-2.3
6	6 161031G2_7	12.5	4.27	4.02e4	1.69e4	12.8	2.38	2.5
7	7 161031G2_8	12.5	4.27	3.26e4	1.48e4	11.9	2.21	-5.1
8	8 161031G2_9	12.5	4.27	3.44e4	1.40e4	13.2	2.45	5.5
9	9 161031G2_10	12.5	4.27	3.04e4	1.32e4	12.4	2.31	-0.6
10	10 161031G2_11	12.5	4.27	2.98e4	1.19e4	13.5	2.51	8.0

Compound name: 13C8-PFOS

Response Factor: 0.982471

RRF SD: 0.0819365, Relative SD: 8.33985

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc	RRF	%Dev
1	1 161031G2_2	12.5	4.68	6.51e3	7.51e3	11.0	0.867	-11.8
2	2 161031G2_3	12.5	4.68	6.84e3	6.83e3	12.7	1.00	1.9
3	3 161031G2_4	12.5	4.68	6.84e3	7.62e3	11.4	0.898	-8.6
4	4 161031G2_5	12.5	4.68	5.97e3	5.45e3	13.9	1.10	11.6
5	5 161031G2_6	12.5	4.68	5.84e3	6.19e3	12.0	0.943	-4.0
6	6 161031G2_7	12.5	4.68	6.58e3	6.30e3	13.3	1.04	6.3
7	7 161031G2_8	12.5	4.68	7.03e3	7.06e3	12.7	0.995	1.3
8	8 161031G2_9	12.5	4.68	5.79e3	5.88e3	12.5	0.985	0.2
9	9 161031G2_10	12.5	4.68	5.76e3	5.24e3	14.0	1.10	11.9
10	10 161031G2_11	12.5	4.68	5.42e3	6.04e3	11.4	0.896	-8.8

Vista Analytical Laboratory Q1

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Compound name: 13C5-PFNA

Response Factor: 1.03764

RRF SD: 0.0552455, Relative SD: 5.32416

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	4.61	1.18e4	1.27e4	11.2	0.928	-10.5
2	2 161031G2_3	12.5	4.61	1.24e4	1.20e4	12.5	1.04	-0.1
3	3 161031G2_4	12.5	4.61	1.29e4	1.26e4	12.3	1.02	-1.7
4	4 161031G2_5	12.5	4.61	1.34e4	1.26e4	12.8	1.06	2.1
5	5 161031G2_6	12.5	4.61	1.53e4	1.39e4	13.2	1.10	5.8
6	6 161031G2_7	12.5	4.61	1.44e4	1.40e4	12.4	1.03	-0.8
7	7 161031G2_8	12.5	4.61	1.31e4	1.31e4	12.1	1.00	-3.3
8	8 161031G2_9	12.5	4.61	1.33e4	1.19e4	13.5	1.12	8.3
9	9 161031G2_10	12.5	4.61	1.19e4	1.18e4	12.1	1.00	-3.3
10	10 161031G2_11	12.5	4.61	1.16e4	1.08e4	12.9	1.07	3.4

Compound name: 13C2-PFDA

Response Factor: 1.05258

RRF SD: 0.0623507, Relative SD: 5.9236

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	4.90	1.23e4	1.31e4	11.1	0.939	-10.8
2	2 161031G2_3	12.5	4.90	1.16e4	1.12e4	12.2	1.03	-2.2
3	3 161031G2_4	12.5	4.90	1.25e4	1.28e4	11.6	0.978	-7.1
4	4 161031G2_5	12.5	4.90	1.02e4	9.31e3	13.1	1.10	4.4
5	5 161031G2_6	12.5	4.90	9.53e3	8.94e3	12.7	1.07	1.3
6	6 161031G2_7	12.5	4.90	1.04e4	9.51e3	13.0	1.09	3.7
7	7 161031G2_8	12.5	4.91	1.35e4	1.31e4	12.3	1.03	-1.8
8	8 161031G2_9	12.5	4.90	1.11e4	9.78e3	13.5	1.13	7.6
9	9 161031G2_10	12.5	4.90	1.06e4	1.02e4	12.3	1.03	-1.8
10	10 161031G2_11	12.5	4.90	1.12e4	9.97e3	13.3	1.12	6.6

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Compound name: 13C2-8:2 FTS

Response Factor: 0.635406

RRF SD: 0.128256, Relative SD: 20.1849

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	4.88	4.04e3	5.12e3	15.5	0.790	24.3
2	2 161031G2_3	12.5	4.88	3.52e3	4.88e3	14.2	0.720	13.3
3	3 161031G2_4	12.5	4.88	3.75e3	5.08e3	14.5	0.739	16.3
4	4 161031G2_5	12.5	4.88	3.64e3	6.44e3	11.1	0.566	-11.0
5	5 161031G2_6	12.5	4.88	3.10e3	6.65e3	9.17	0.466	-26.6
6	6 161031G2_7	12.5	4.88	3.58e3	6.58e3	10.7	0.545	-14.3
7	7 161031G2_8	12.5	4.88	4.68e3	5.54e3	16.6	0.844	32.8
8	8 161031G2_9	12.5	4.88	3.45e3	6.56e3	10.3	0.526	-17.2
9	9 161031G2_10	12.5	4.88	3.57e3	6.59e3	10.6	0.541	-14.8
10	10 161031G2_11	12.5	4.88	3.78e3	6.11e3	12.2	0.618	-2.8

Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	1.75	2.12e4	2.12e4	12.5	1.00	0.0
2	2 161031G2_3	12.5	1.75	1.96e4	1.96e4	12.5	1.00	0.0
3	3 161031G2_4	12.5	1.75	2.04e4	2.04e4	12.5	1.00	0.0
4	4 161031G2_5	12.5	1.77	2.55e4	2.55e4	12.5	1.00	0.0
5	5 161031G2_6	12.5	1.77	2.58e4	2.58e4	12.5	1.00	0.0
6	6 161031G2_7	12.5	1.77	2.63e4	2.63e4	12.5	1.00	0.0
7	7 161031G2_8	12.5	1.76	2.06e4	2.06e4	12.5	1.00	0.0
8	8 161031G2_9	12.5	1.77	2.18e4	2.18e4	12.5	1.00	0.0
9	9 161031G2_10	12.5	1.77	2.11e4	2.11e4	12.5	1.00	0.0
10	10 161031G2_11	12.5	1.77	1.93e4	1.93e4	12.5	1.00	0.0

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Compound name: 13C2-4:2 FTS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	3.26	5.12e3	5.12e3	12.5	1.00	0.0
2	2 161031G2_3	12.5	3.26	4.88e3	4.88e3	12.5	1.00	0.0
3	3 161031G2_4	12.5	3.26	5.08e3	5.08e3	12.5	1.00	0.0
4	4 161031G2_5	12.5	3.26	6.44e3	6.44e3	12.5	1.00	0.0
5	5 161031G2_6	12.5	3.25	6.65e3	6.65e3	12.5	1.00	0.0
6	6 161031G2_7	12.5	3.26	6.58e3	6.58e3	12.5	1.00	0.0
7	7 161031G2_8	12.5	3.26	5.54e3	5.54e3	12.5	1.00	0.0
8	8 161031G2_9	12.5	3.26	6.56e3	6.56e3	12.5	1.00	0.0
9	9 161031G2_10	12.5	3.26	6.59e3	6.59e3	12.5	1.00	0.0
10	10 161031G2_11	12.5	3.26	6.11e3	6.11e3	12.5	1.00	0.0

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	3.33	2.94e4	2.94e4	12.5	1.00	0.0
2	2 161031G2_3	12.5	3.33	2.79e4	2.79e4	12.5	1.00	0.0
3	3 161031G2_4	12.5	3.33	2.75e4	2.75e4	12.5	1.00	0.0
4	4 161031G2_5	12.5	3.33	3.57e4	3.57e4	12.5	1.00	0.0
5	5 161031G2_6	12.5	3.33	3.66e4	3.66e4	12.5	1.00	0.0
6	6 161031G2_7	12.5	3.33	3.54e4	3.54e4	12.5	1.00	0.0
7	7 161031G2_8	12.5	3.33	2.71e4	2.71e4	12.5	1.00	0.0
8	8 161031G2_9	12.5	3.33	3.04e4	3.04e4	12.5	1.00	0.0
9	9 161031G2_10	12.5	3.33	2.71e4	2.71e4	12.5	1.00	0.0
10	10 161031G2_11	12.5	3.33	2.42e4	2.42e4	12.5	1.00	0.0

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	3.97	1.14e4	1.14e4	12.5	1.00	0.0
2	2 161031G2_3	12.5	3.97	1.07e4	1.07e4	12.5	1.00	0.0
3	3 161031G2_4	12.5	3.97	1.13e4	1.13e4	12.5	1.00	0.0
4	4 161031G2_5	12.5	3.97	1.28e4	1.28e4	12.5	1.00	0.0
5	5 161031G2_6	12.5	3.97	1.30e4	1.30e4	12.5	1.00	0.0
6	6 161031G2_7	12.5	3.97	1.29e4	1.29e4	12.5	1.00	0.0
7	7 161031G2_8	12.5	3.97	1.03e4	1.03e4	12.5	1.00	0.0
8	8 161031G2_9	12.5	3.97	1.03e4	1.03e4	12.5	1.00	0.0
9	9 161031G2_10	12.5	3.97	9.85e3	9.85e3	12.5	1.00	0.0
10	10 161031G2_11	12.5	3.97	9.65e3	9.65e3	12.5	1.00	0.0

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	4.27	1.48e4	1.48e4	12.5	1.00	0.0
2	2 161031G2_3	12.5	4.27	1.38e4	1.38e4	12.5	1.00	0.0
3	3 161031G2_4	12.5	4.27	1.56e4	1.56e4	12.5	1.00	0.0
4	4 161031G2_5	12.5	4.27	1.68e4	1.68e4	12.5	1.00	0.0
5	5 161031G2_6	12.5	4.27	1.71e4	1.71e4	12.5	1.00	0.0
6	6 161031G2_7	12.5	4.27	1.69e4	1.69e4	12.5	1.00	0.0
7	7 161031G2_8	12.5	4.27	1.48e4	1.48e4	12.5	1.00	0.0
8	8 161031G2_9	12.5	4.27	1.40e4	1.40e4	12.5	1.00	0.0
9	9 161031G2_10	12.5	4.27	1.32e4	1.32e4	12.5	1.00	0.0
10	10 161031G2_11	12.5	4.27	1.19e4	1.19e4	12.5	1.00	0.0

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc	RRF	%Dev
1	1 161031G2_2	12.5	4.68	7.51e3	7.51e3	12.5	1.00	0.0
2	2 161031G2_3	12.5	4.68	6.83e3	6.83e3	12.5	1.00	0.0
3	3 161031G2_4	12.5	4.68	7.62e3	7.62e3	12.5	1.00	0.0
4	4 161031G2_5	12.5	4.68	5.45e3	5.45e3	12.5	1.00	0.0
5	5 161031G2_6	12.5	4.68	6.19e3	6.19e3	12.5	1.00	0.0
6	6 161031G2_7	12.5	4.68	6.30e3	6.30e3	12.5	1.00	0.0
7	7 161031G2_8	12.5	4.68	7.06e3	7.06e3	12.5	1.00	0.0
8	8 161031G2_9	12.5	4.68	5.88e3	5.88e3	12.5	1.00	0.0
9	9 161031G2_10	12.5	4.68	5.24e3	5.24e3	12.5	1.00	0.0
10	10 161031G2_11	12.5	4.68	6.04e3	6.04e3	12.5	1.00	0.0

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	#-Name	Std. Conc	RT	Resp	IS Resp	Conc	RRF	%Dev
1	1 161031G2_2	12.5	4.61	1.27e4	1.27e4	12.5	1.00	0.0
2	2 161031G2_3	12.5	4.61	1.20e4	1.20e4	12.5	1.00	0.0
3	3 161031G2_4	12.5	4.61	1.26e4	1.26e4	12.5	1.00	0.0
4	4 161031G2_5	12.5	4.61	1.26e4	1.26e4	12.5	1.00	0.0
5	5 161031G2_6	12.5	4.61	1.39e4	1.39e4	12.5	1.00	0.0
6	6 161031G2_7	12.5	4.61	1.40e4	1.40e4	12.5	1.00	0.0
7	7 161031G2_8	12.5	4.61	1.31e4	1.31e4	12.5	1.00	0.0
8	8 161031G2_9	12.5	4.61	1.19e4	1.19e4	12.5	1.00	0.0
9	9 161031G2_10	12.5	4.61	1.18e4	1.18e4	12.5	1.00	0.0
10	10 161031G2_11	12.5	4.61	1.08e4	1.08e4	12.5	1.00	0.0

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	RRF	%Dev
1	1 161031G2_2	12.5	4.90	1.31e4	1.31e4	12.5	1.00	0.0
2	2 161031G2_3	12.5	4.90	1.12e4	1.12e4	12.5	1.00	0.0
3	3 161031G2_4	12.5	4.90	1.28e4	1.28e4	12.5	1.00	0.0
4	4 161031G2_5	12.5	4.90	9.31e3	9.31e3	12.5	1.00	0.0
5	5 161031G2_6	12.5	4.90	8.94e3	8.94e3	12.5	1.00	0.0
6	6 161031G2_7	12.5	4.90	9.51e3	9.51e3	12.5	1.00	0.0
7	7 161031G2_8	12.5	4.90	1.31e4	1.31e4	12.5	1.00	0.0
8	8 161031G2_9	12.5	4.90	9.78e3	9.78e3	12.5	1.00	0.0
9	9 161031G2_10	12.5	4.90	1.02e4	1.02e4	12.5	1.00	0.0
10	10 161031G2_11	12.5	4.90	9.97e3	9.97e3	12.5	1.00	0.0

Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 28 Oct 2016 10:49:06

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

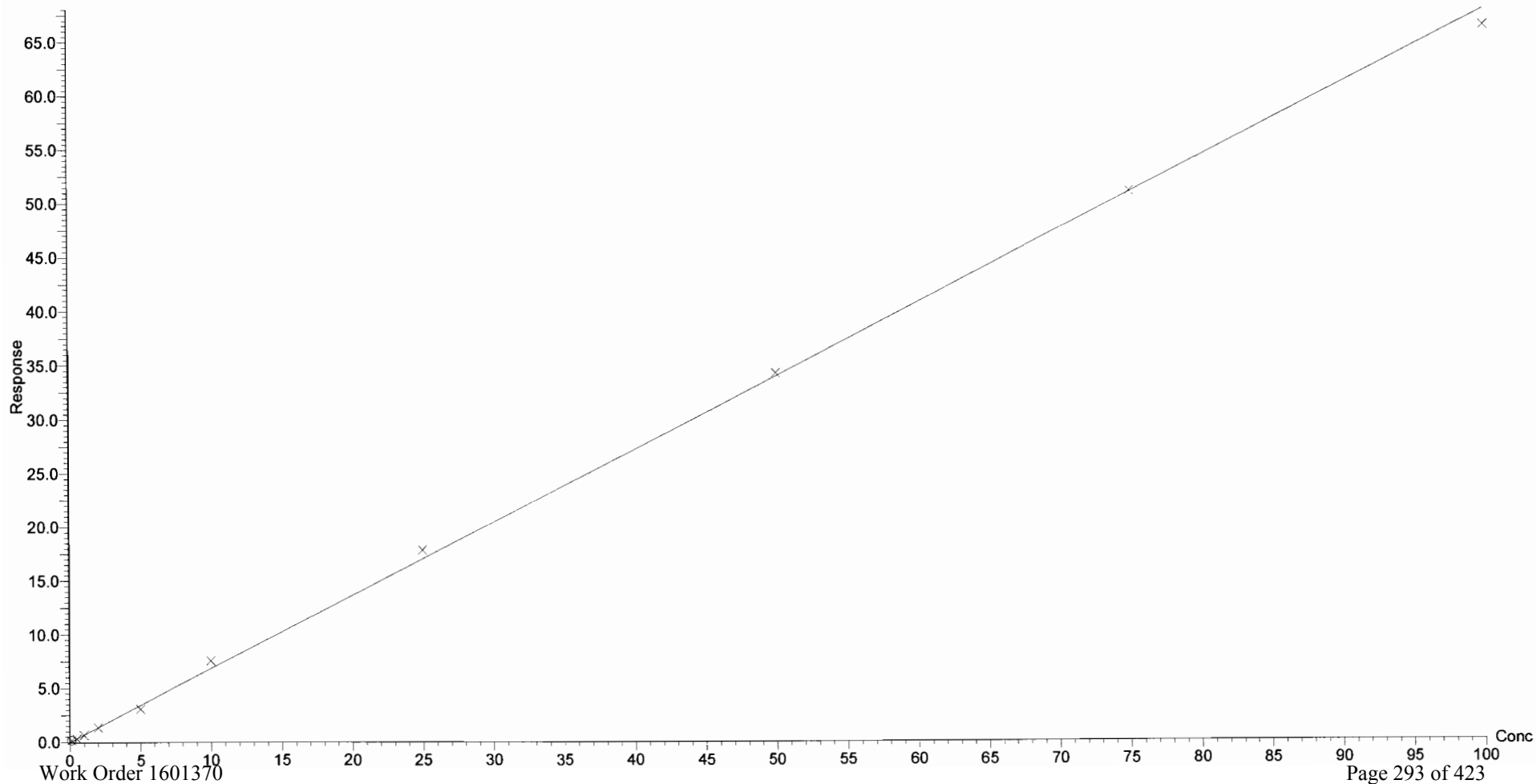
Compound name: PFBA

Correlation coefficient: $r = 0.999461$, $r^2 = 0.998922$

Calibration curve: $0.68025 * x + -0.00224366$

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

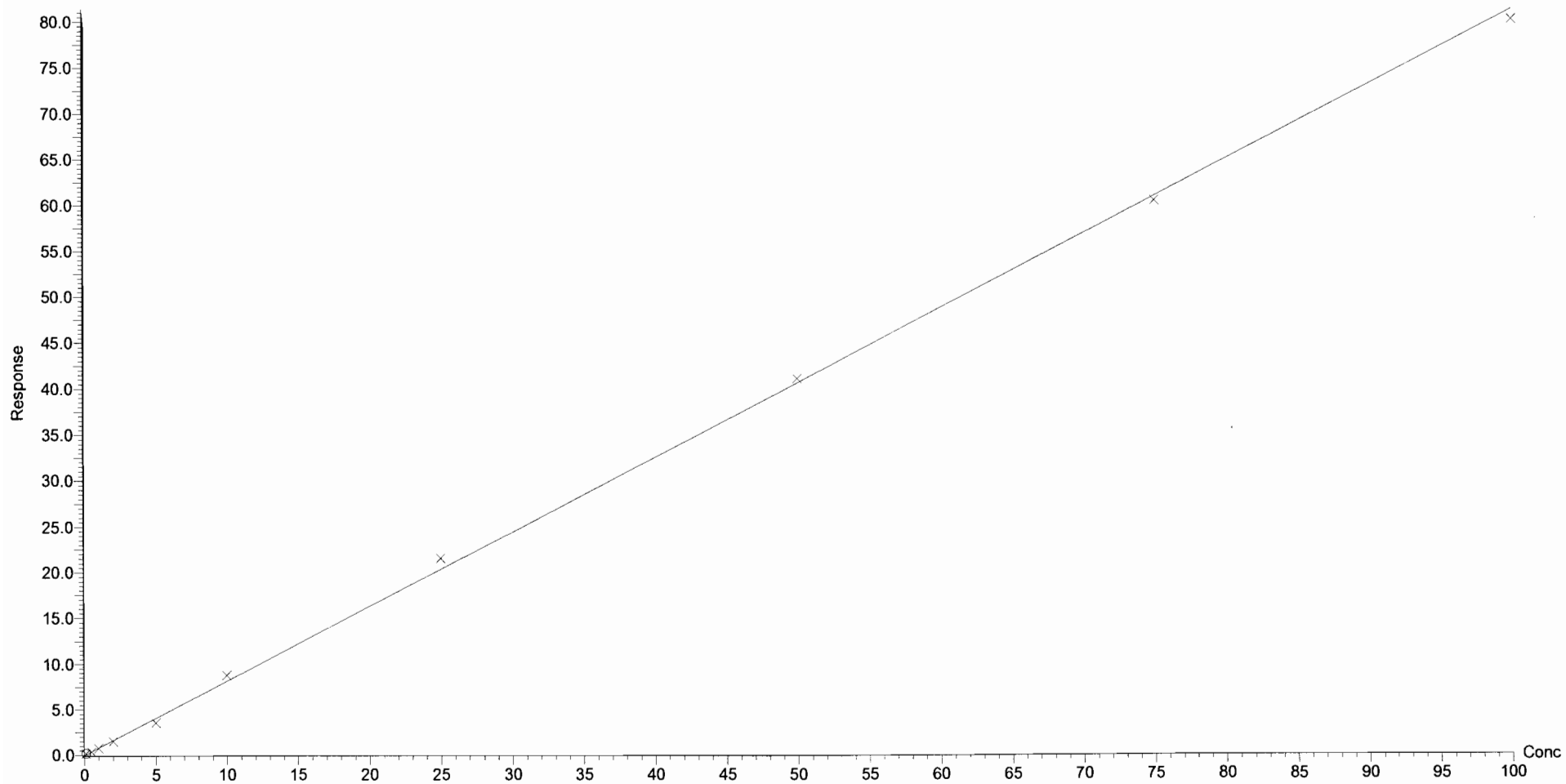
Compound name: PFPeA

Correlation coefficient: $r = 0.999481$, $r^2 = 0.998962$

Calibration curve: $0.813936 * x + -0.0179966$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

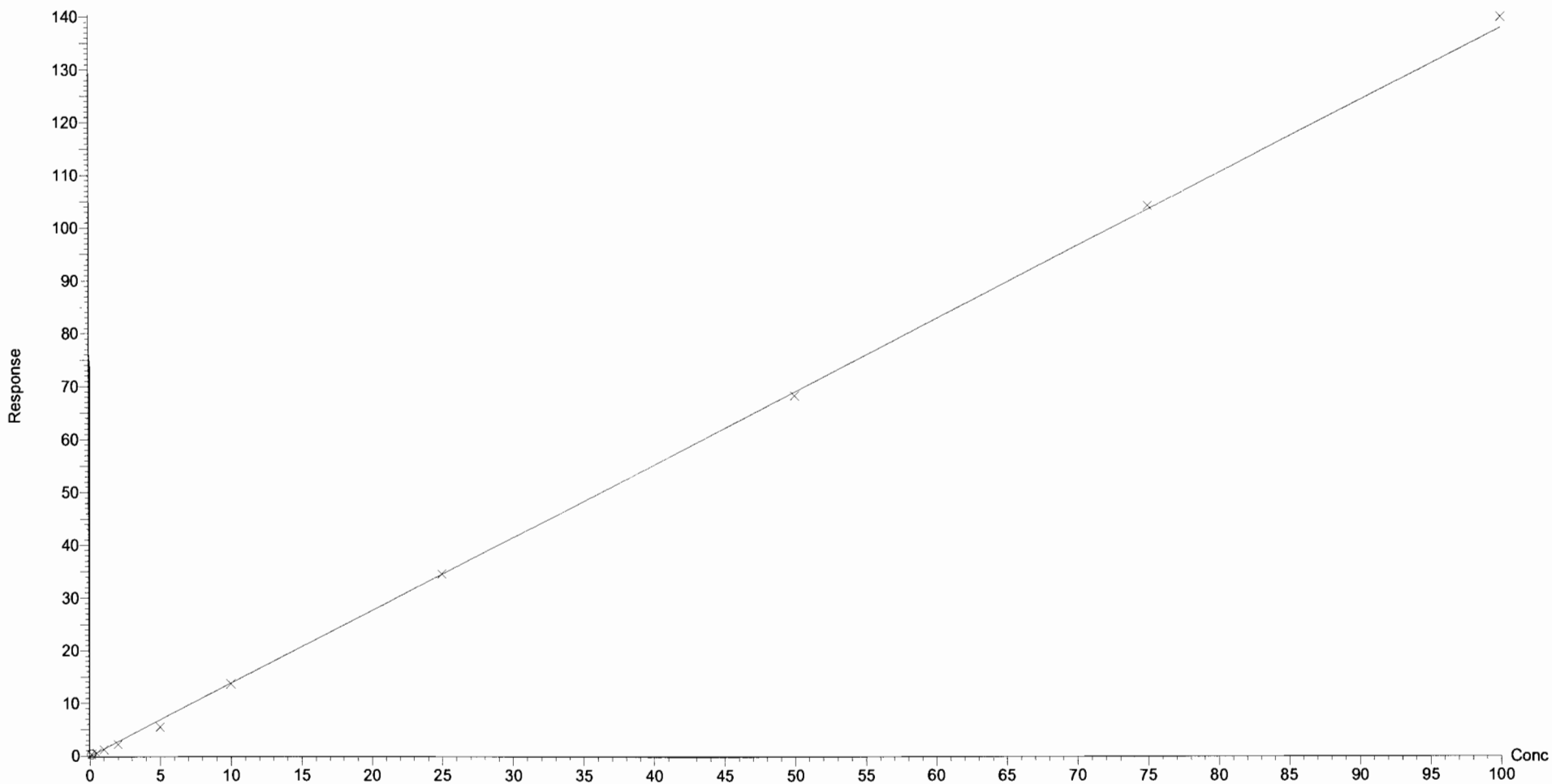
Compound name: PFBS

Correlation coefficient: $r = 0.999367$, $r^2 = 0.998735$

Calibration curve: $1.38406 * x + -0.0911461$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

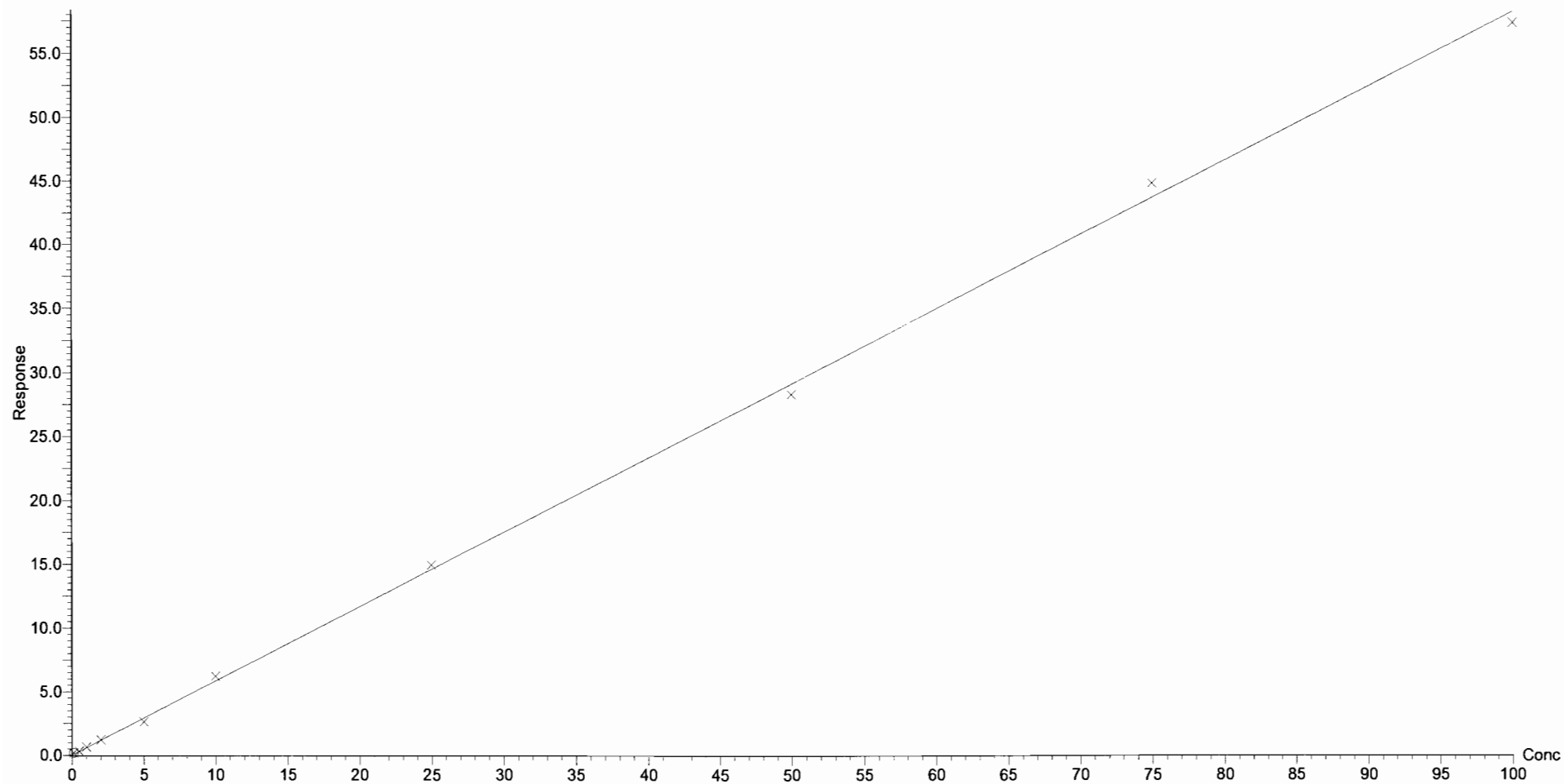
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

Compound name: PFHxA
Correlation coefficient: $r = 0.999560$, $r^2 = 0.999121$
Calibration curve: $0.583416 * x + 0.0113256$
Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

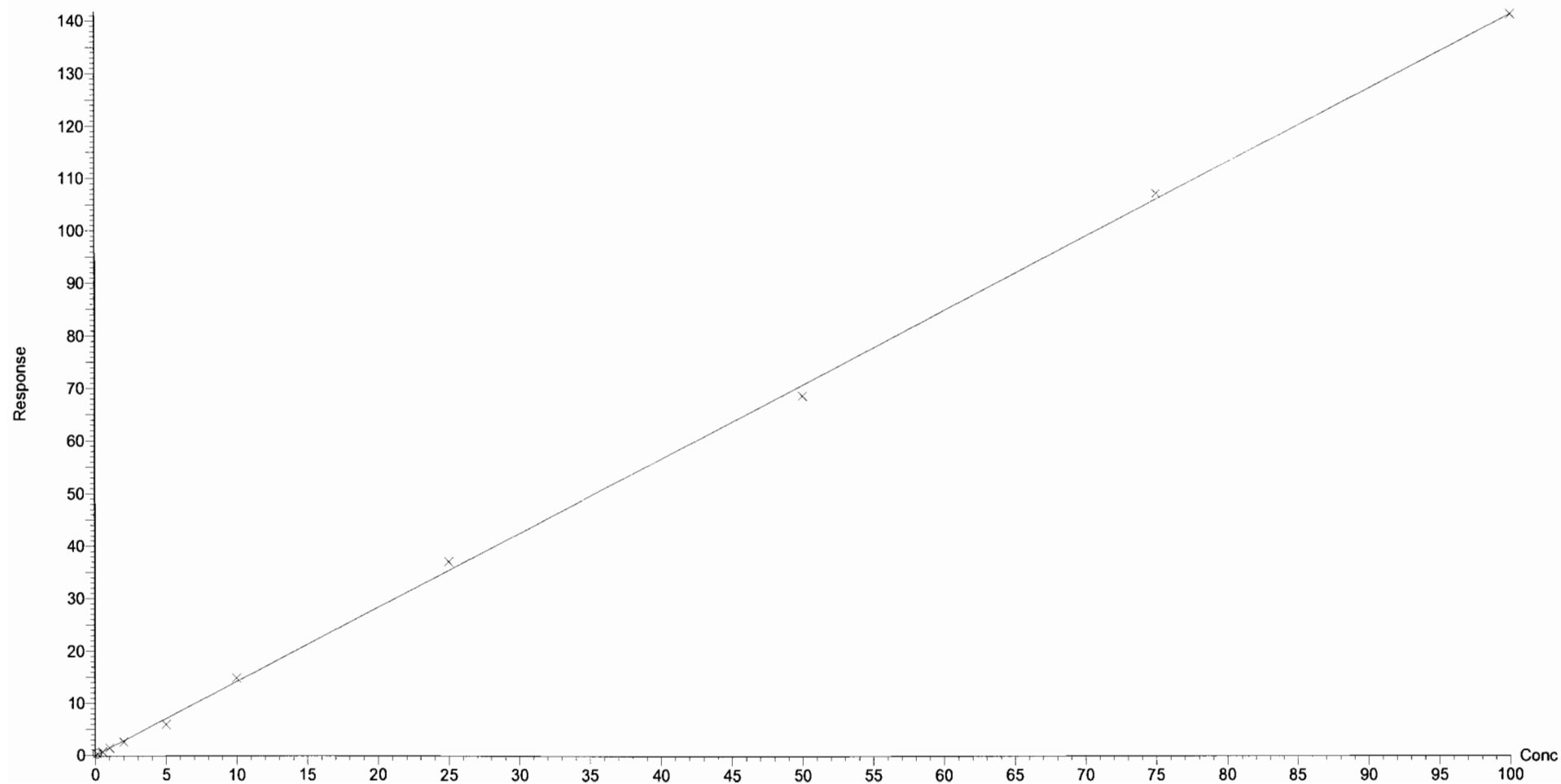
Compound name: PFHpA

Correlation coefficient: $r = 0.999484$, $r^2 = 0.998969$

Calibration curve: $1.41793 * x + -0.0299716$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

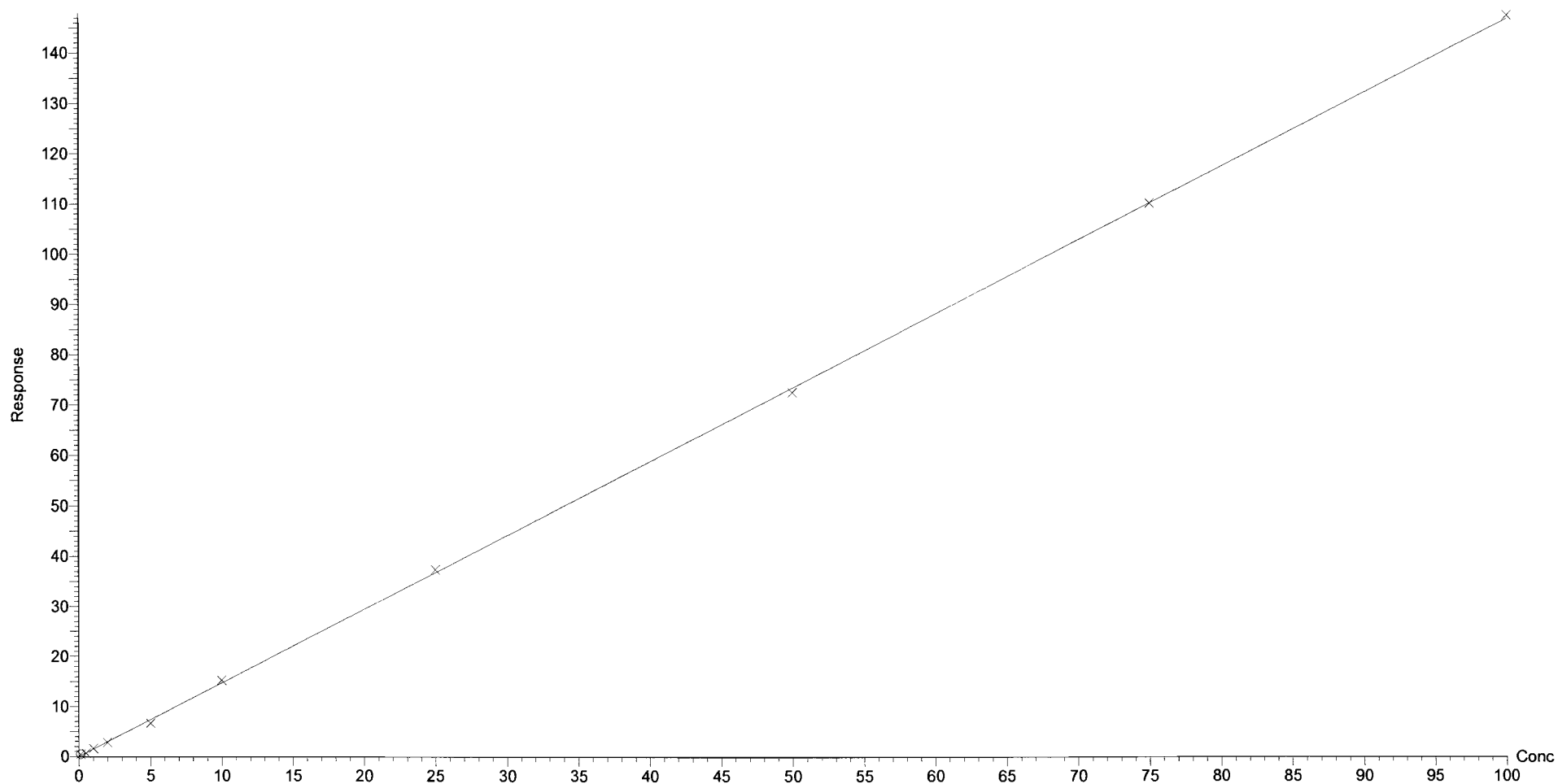
Compound name: PFHxS

Correlation coefficient: $r = 0.999820$, $r^2 = 0.999641$

Calibration curve: $1.47313 * x + -0.0188609$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

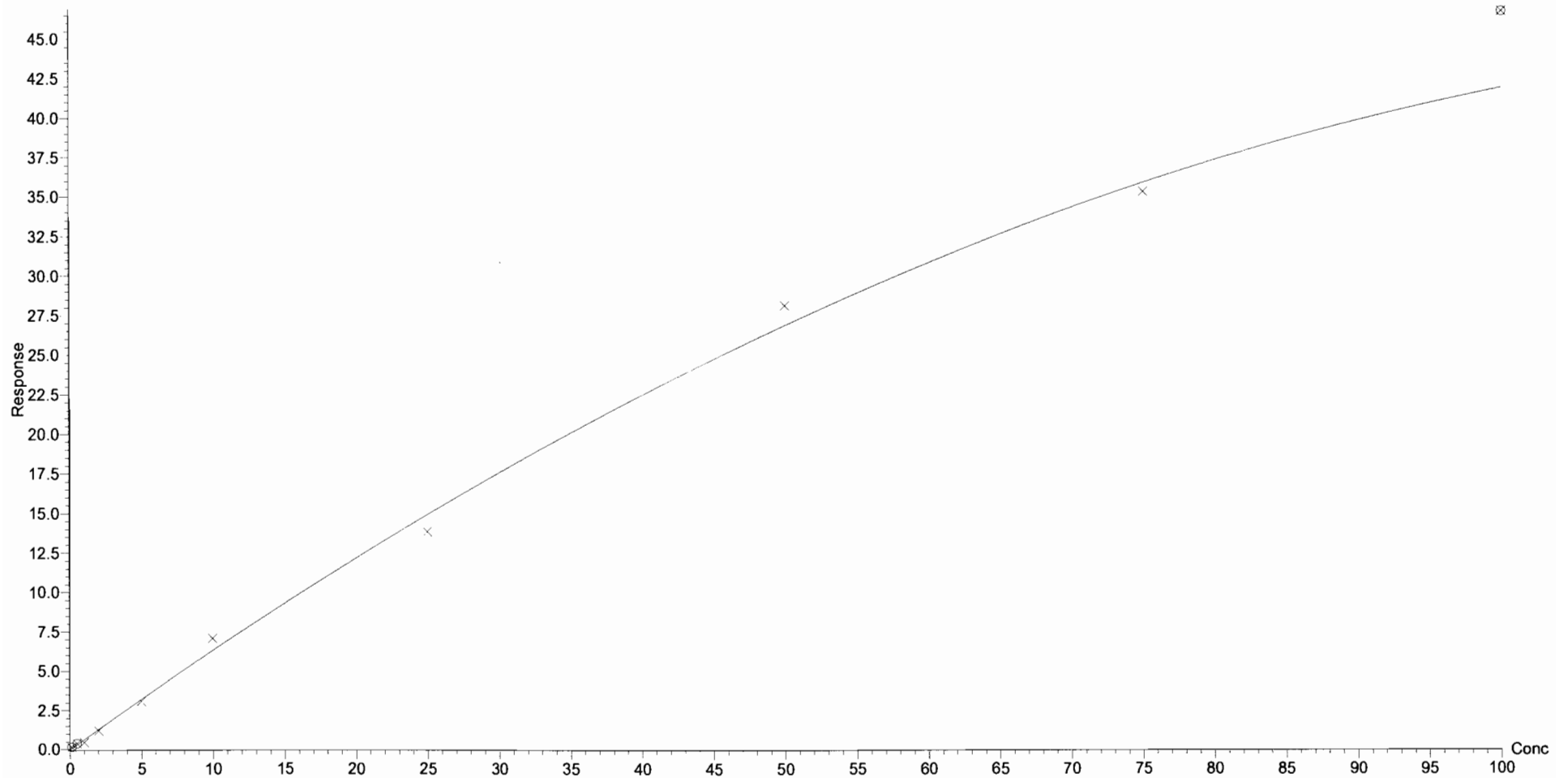
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.995986$

Calibration curve: $-0.00237607 * x^2 + 0.658455 * x + -0.0238852$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

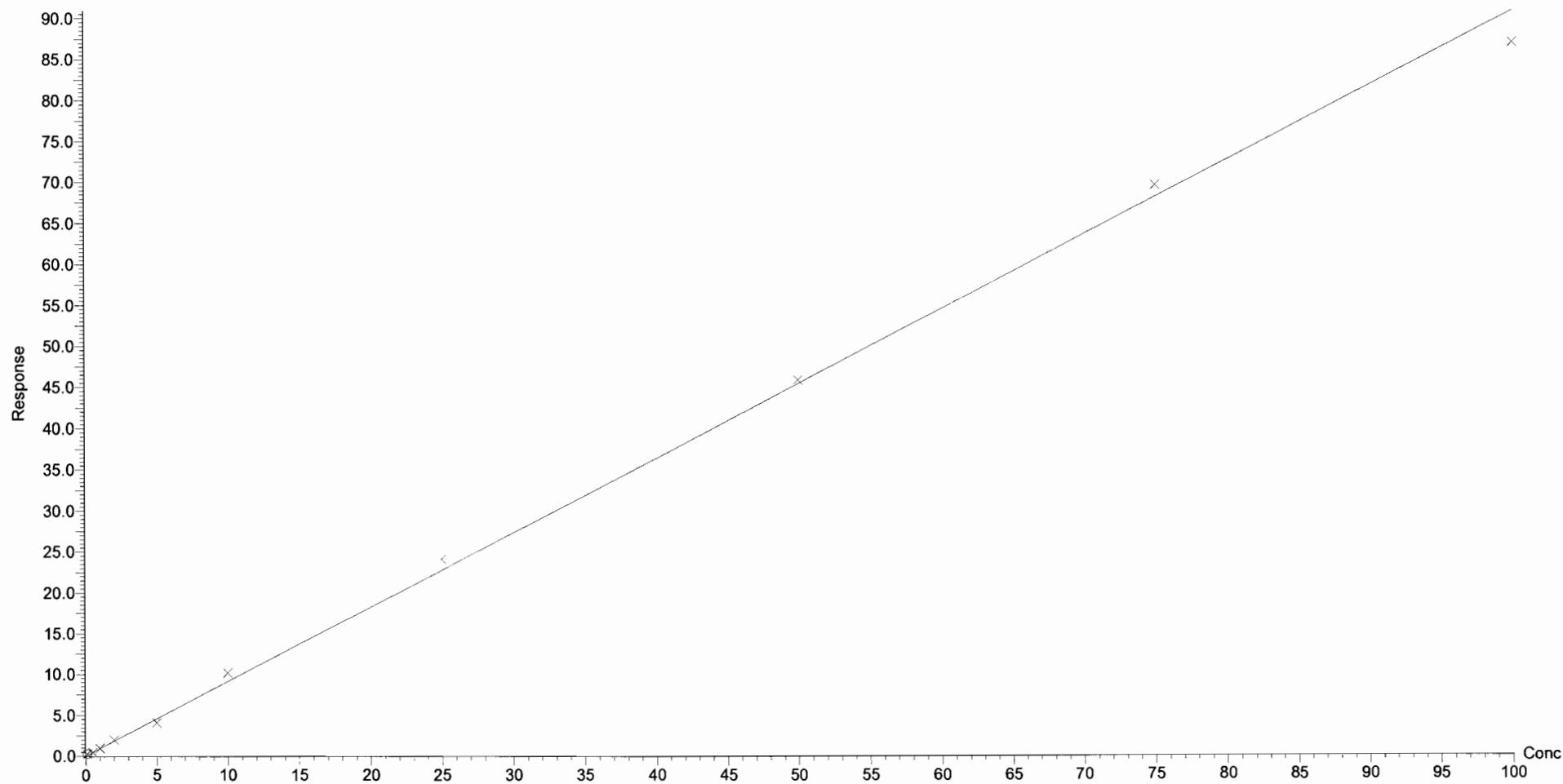
Compound name: PFOA

Correlation coefficient: $r = 0.999034$, $r^2 = 0.998070$

Calibration curve: $0.909667 * x + 0.0149722$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

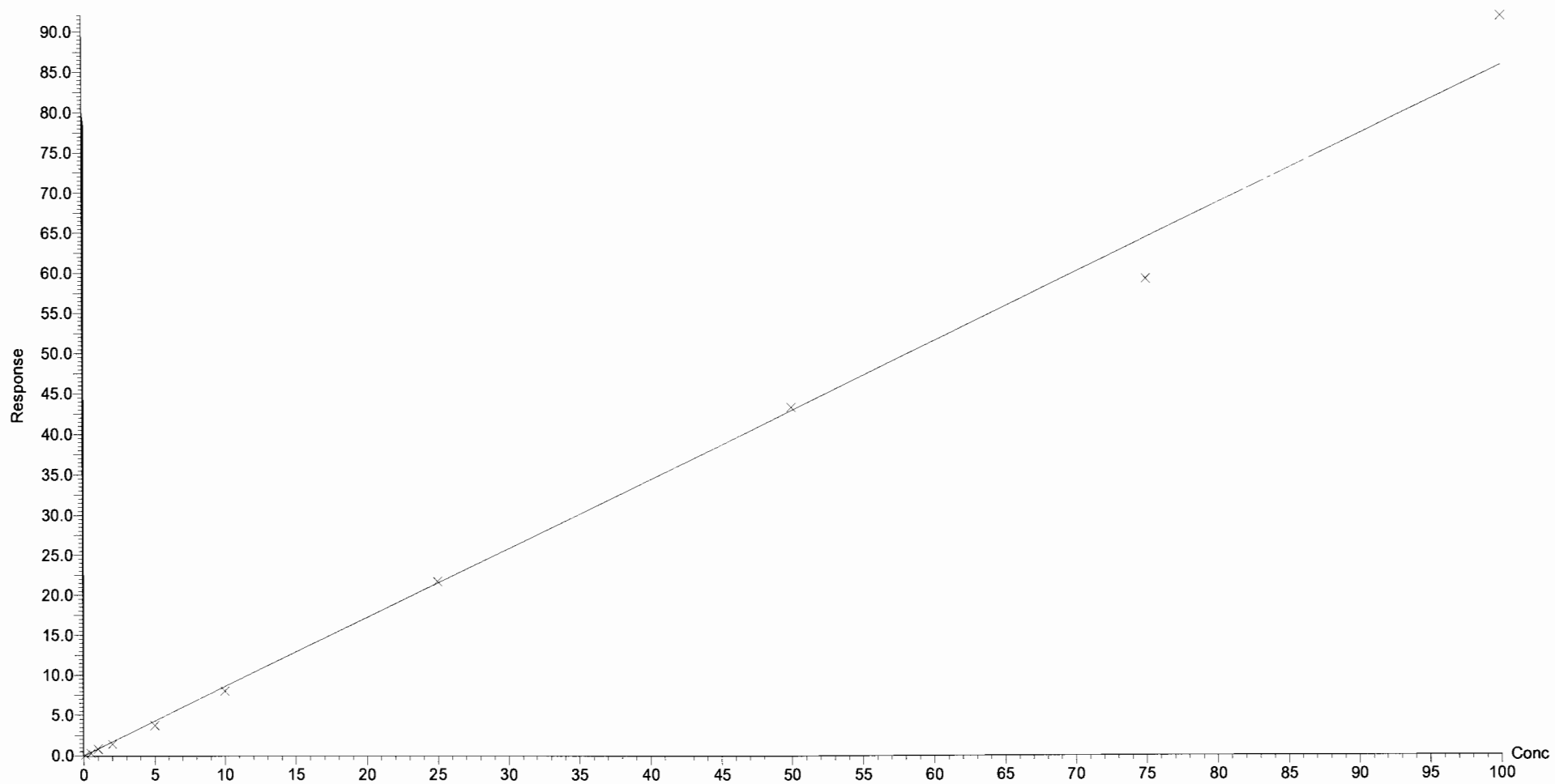
Compound name: PFOS

Correlation coefficient: $r = 0.997673$, $r^2 = 0.995352$

Calibration curve: $0.860271 * x + -0.0456852$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

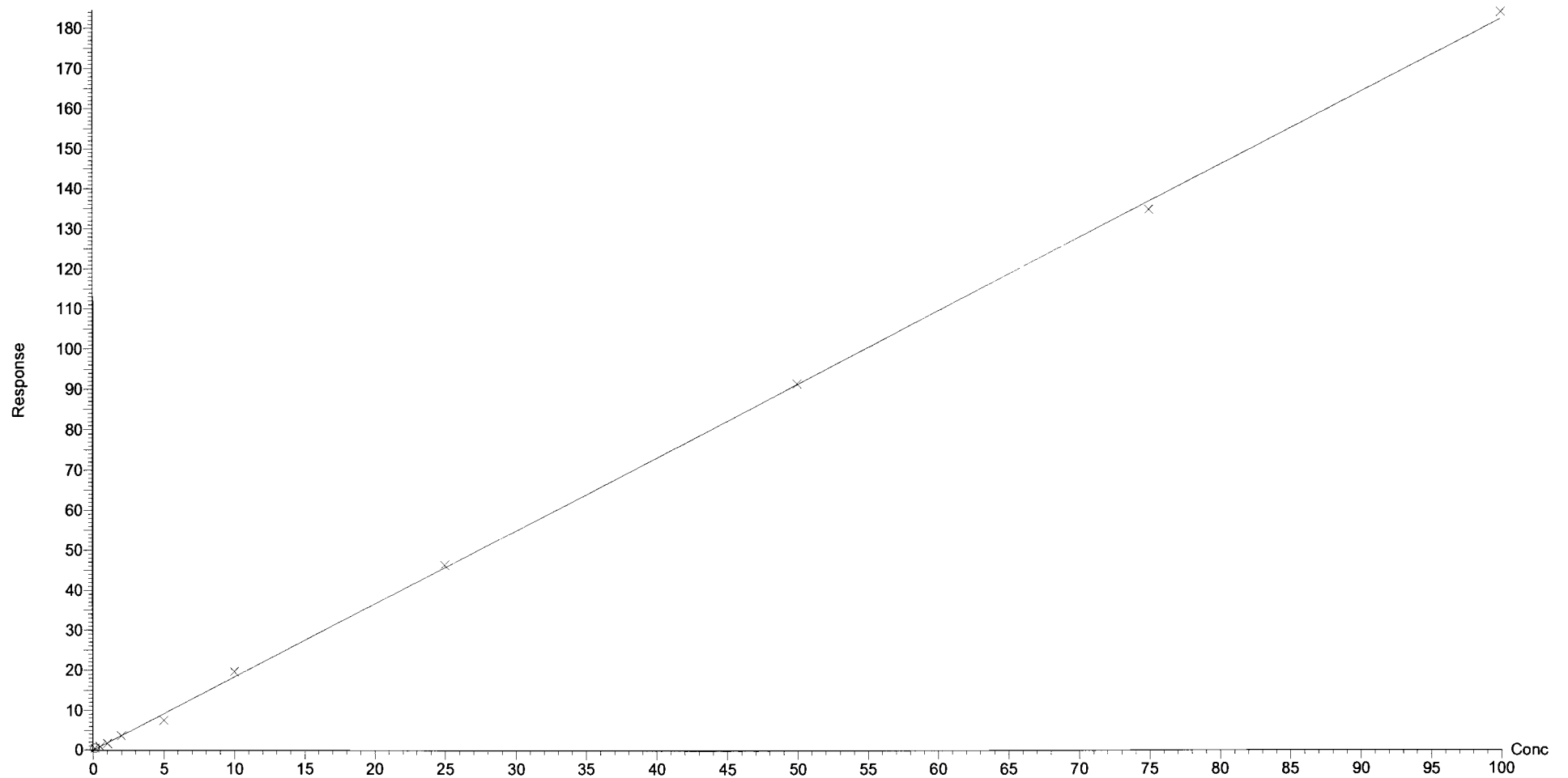
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

Compound name: PFNA
Correlation coefficient: $r = 0.999491$, $r^2 = 0.998982$
Calibration curve: $1.82913 * x + -0.0603589$
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

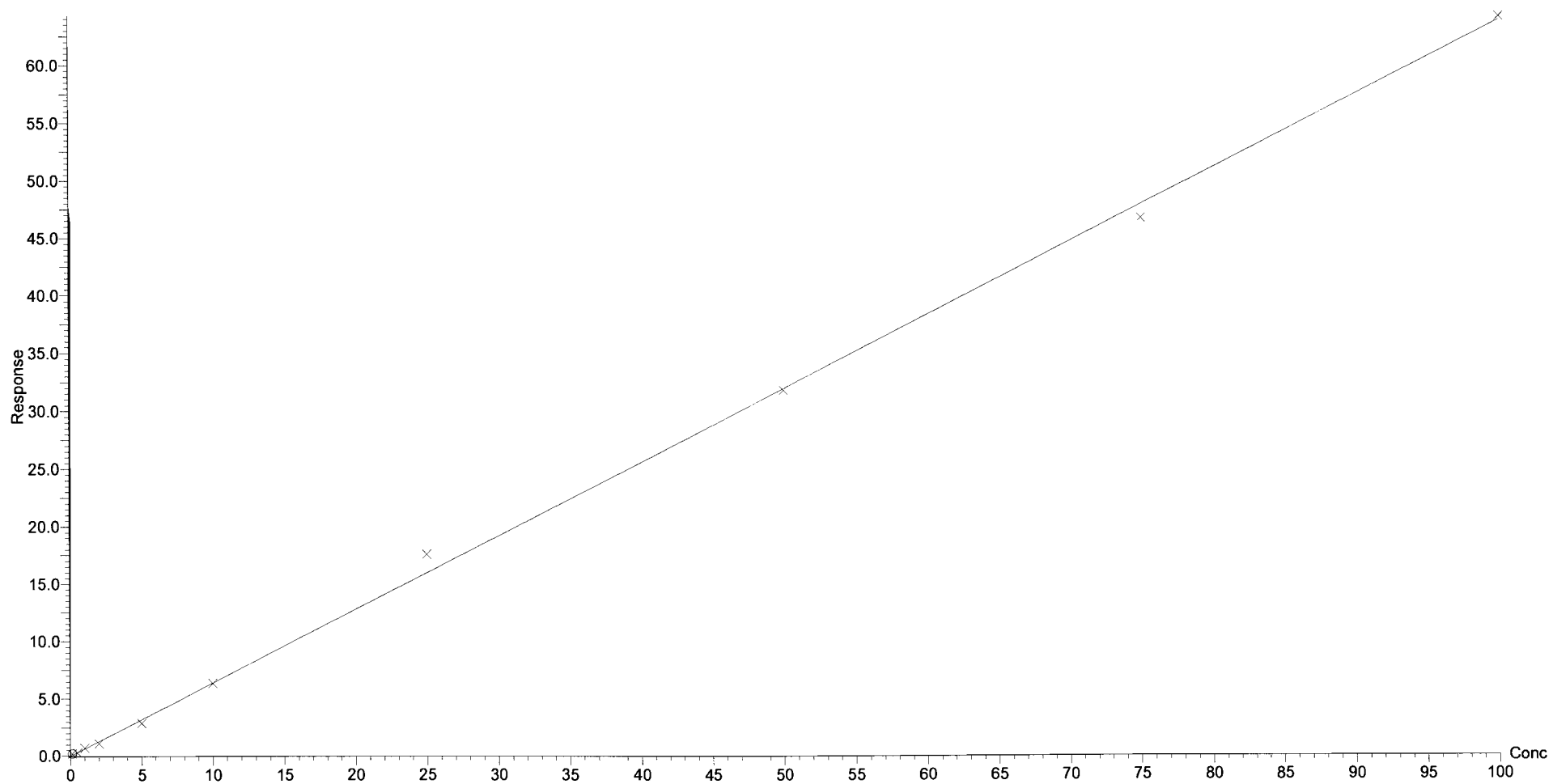
Compound name: PFDA

Correlation coefficient: $r = 0.999184$, $r^2 = 0.998369$

Calibration curve: $0.639934 * x + -0.0168263$

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-CRV.qld

Last Altered: Tuesday, November 01, 2016 13:21:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:22:39 Pacific Daylight Time

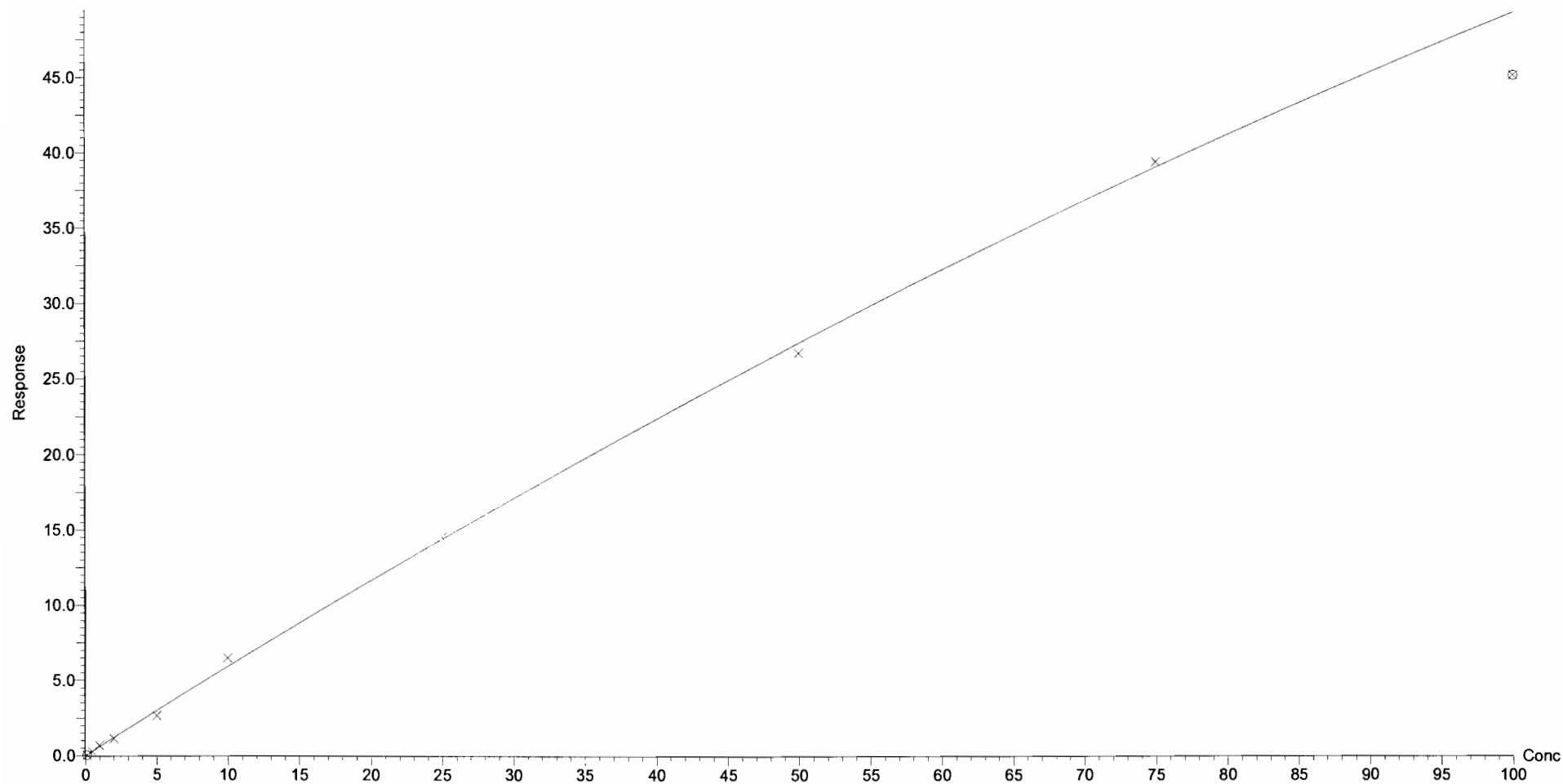
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.998338$

Calibration curve: $-0.00108686 * x^2 + 0.603513 * x + -0.00649023$

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 12:19:28 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 12:20:03 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 01 Nov 2016 12:05:38

Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 11:59:14

Compound name: PFBA

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1	161031G2_1	IPA	31-Oct-16	17:01:14
2	161031G2_2	ST161031G2-1 PFC CS-2 16J3104	31-Oct-16	17:13:53
3	161031G2_3	ST161031G2-2 PFC CS-1 16J3105	31-Oct-16	17:26:29
4	161031G2_4	ST161031G2-3 PFC CS0 16J3107	31-Oct-16	17:39:06
5	161031G2_5	ST161031G2-4 PFC CS1 16J2706	31-Oct-16	17:51:42
6	161031G2_6	ST161031G2-5 PFC CS2 16J2707	31-Oct-16	18:04:20
7	161031G2_7	ST161031G2-6 PFC CS3 16J2708	31-Oct-16	18:16:58
8	161031G2_8	ST161031G2-7 PFC CS3.5 16J2903	31-Oct-16	18:29:37
9	161031G2_9	ST161031G2-8 PFC CS4 16J2709	31-Oct-16	18:42:16
10	161031G2_10	ST161031G2-9 PFC CS4.5 16J2710	31-Oct-16	18:54:56
11	161031G2_11	ST161031G2-10 PFC CS5 16J2711	31-Oct-16	19:07:32
12	161031G2_12	IPA	31-Oct-16	19:20:09
13	161031G2_13	SS161031G2-1 PFC SSS 16J1810	31-Oct-16	19:32:47
14	161031G2_14	IPA	31-Oct-16	19:45:24
15	161031G2_15	B6J0178-BS1 OPR 0.125	31-Oct-16	19:58:03
16	161031G2_16	IPA	31-Oct-16	20:10:40
17	161031G2_17	B6J0178-BLK1 Method Blank 0.125	31-Oct-16	20:23:18
18	161031G2_18	1601334-10 BERP03010 0.125	31-Oct-16	20:35:56
19	161031G2_19	1601334-13 BERPXX064 0.125	31-Oct-16	20:48:35
20	161031G2_20	1601334-14 BERP05030 0.125	31-Oct-16	21:01:13
21	161031G2_21	B6J0178-MS1 Matrix Spike 0.125	31-Oct-16	21:13:53
22	161031G2_22	B6J0178-MSD1 Matrix Spike Dup 0.125	31-Oct-16	21:26:29
23	161031G2_23	1601334-15 BERP05071 0.125	31-Oct-16	21:39:04
24	161031G2_24	1601334-16 BERP06032 0.125	31-Oct-16	21:51:41
25	161031G2_25	1601334-17 BERP06033 0.125	31-Oct-16	22:04:17
26	161031G2_26	1601334-18 BERP04022 0.125	31-Oct-16	22:16:55
27	161031G2_27	1601334-19 BERP06034 0.125	31-Oct-16	22:29:33
28	161031G2_28	IPA	31-Oct-16	22:42:12
29	161031G2_29	ST161031G2-11 PFC CS3.5 16J2903	31-Oct-16	22:54:51
30	161031G2_30	IPA	31-Oct-16	23:07:29
31	161031G2_31	B6J0182-BS1 OPR 1	31-Oct-16	23:20:08

Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 12:19:28 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 12:20:03 Pacific Daylight Time

Compound name: PFBA

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32	161031G2_32	IPA	31-Oct-16	23:32:48
33	161031G2_33	B6J0182-BLK1 Method Blank 1	31-Oct-16	23:45:27
34	161031G2_34	1601334-20 BERP03011 0.125	31-Oct-16	23:58:02
35	161031G2_35	1601343-01 BERP05026 0.125	01-Nov-16	00:10:38
36	161031G2_36	1601343-02 BERP05027 0.125	01-Nov-16	00:23:14
37	161031G2_37	1601343-03 BERP05029 0.125	01-Nov-16	00:35:51
38	161031G2_38	1601218-01RE1 LORNG-FTLT18-092016 1.03	01-Nov-16	00:48:29
39	161031G2_39	1601218-02RE1 LORNG-FTLT19-092016 1.02	01-Nov-16	01:01:06
40	161031G2_40	IPA	01-Nov-16	01:13:45
41	161031G2_41	ST161031G2-12 PFC CS3.5 16J2903	01-Nov-16	01:26:23
42	161031G2_42	IPA	01-Nov-16	01:39:02
43	161031G2_43	B6J0183-BS1 OPR 0.125	01-Nov-16	01:51:42
44	161031G2_44	B6J0183-BSD1 LCS Dup 0.125	01-Nov-16	02:04:22
45	161031G2_45	B6J0185-BS1 OPR 0.125	01-Nov-16	02:16:59
46	161031G2_46	B6J0185-BSD1 LCS Dup 0.125	01-Nov-16	02:29:35
47	161031G2_47	IPA	01-Nov-16	02:42:11
48	161031G2_48	B6J0183-BLK1 Method Blank 0.125	01-Nov-16	02:54:50
49	161031G2_49	B6J0185-BLK1 Method Blank 0.125	01-Nov-16	03:07:26
50	161031G2_50	1601332-01RE1 AFFF-MW01-073-101716 0.1...	01-Nov-16	03:20:04
51	161031G2_51	1601332-03RE1 AFFF-FFTA-MW-2-101816 0....	01-Nov-16	03:32:41
52	161031G2_52	1601332-04RE1 AFFF-FFTA-MW-2B-101816 ...	01-Nov-16	03:45:20
53	161031G2_53	B6J0183-MS1 Matrix Spike 0.125	01-Nov-16	03:57:59
54	161031G2_54	B6J0183-MSD1 Matrix Spike Dup 0.125	01-Nov-16	04:10:34
55	161031G2_55	1601332-05RE1 AFFF-FFTA-MW-2D-101816 ...	01-Nov-16	04:23:10
56	161031G2_56	1601332-06RE1 AFFF-TLF-MW-55D-101816 ...	01-Nov-16	04:35:46
57	161031G2_57	1601332-07RE1 AFFF-FFTA-MW-60-101816 ...	01-Nov-16	04:48:22
58	161031G2_58	1601332-08RE1 AFFF-FFTA-MW-60D-10181...	01-Nov-16	05:00:59
59	161031G2_59	1601332-09RE1 AFFF-FFTA-MW-60D2-1018...	01-Nov-16	05:13:37
60	161031G2_60	1601332-10RE1 AFFF-FFTA-DUP2-101916 0....	01-Nov-16	05:26:16
61	161031G2_61	1601332-11RE1 EB2-WG-101916 0.13061	01-Nov-16	05:38:56
62	161031G2_62	IPA	01-Nov-16	05:51:31
63	161031G2_63	ST161031G2-13 PFC CS3.5 16J2903	01-Nov-16	06:04:09
64	161031G2_64	IPA	01-Nov-16	06:16:48
65	161031G2_65	1601332-12RE1 AFFF-FFTA-MW-103I-10191...	01-Nov-16	06:29:28

Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 12:19:28 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 12:20:03 Pacific Daylight Time

Compound name: PFBA

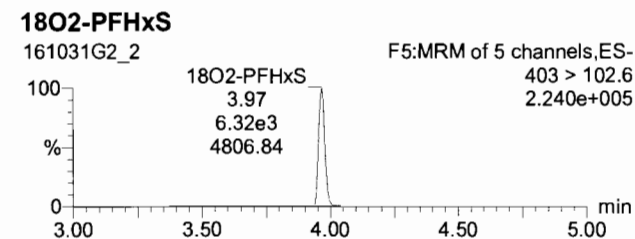
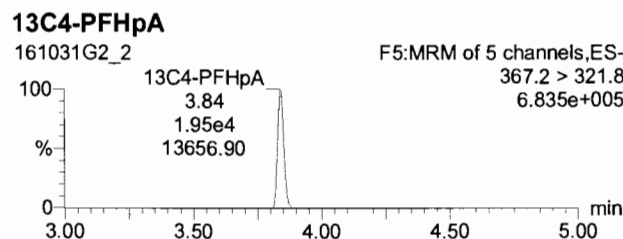
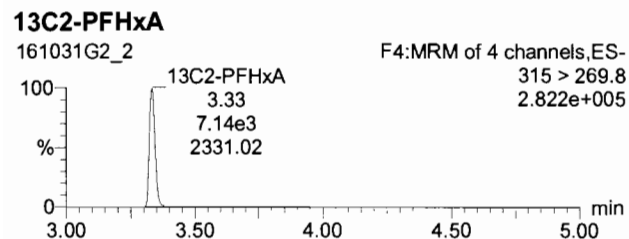
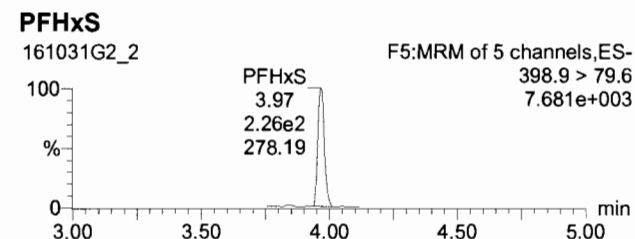
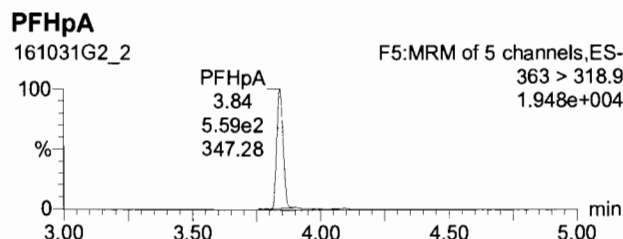
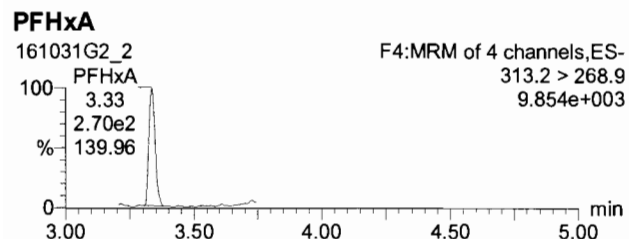
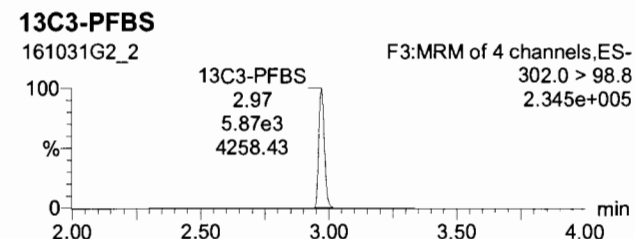
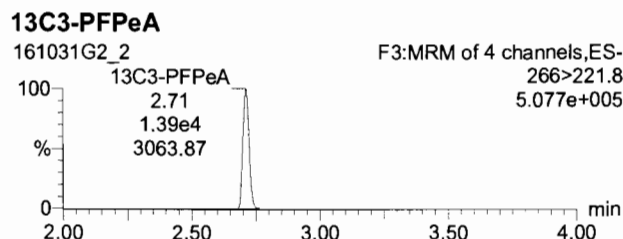
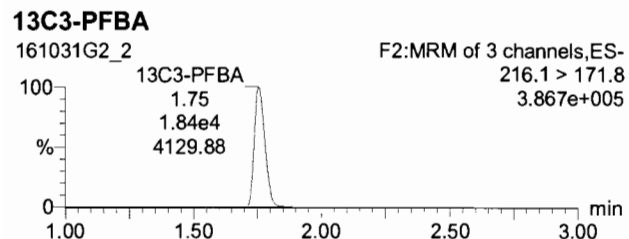
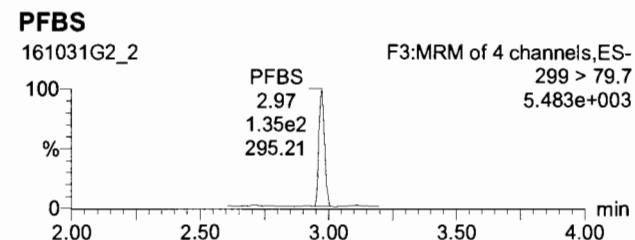
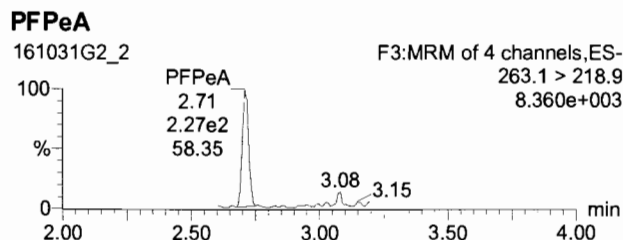
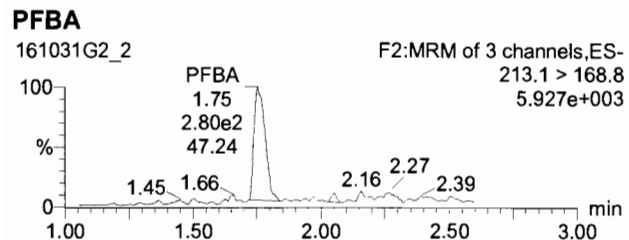
	Name	ID	Acq.Date	Acq.Time
66	161031G2_66	1601332-02RE1 AFFF-MW01-093-101716 0.1...	01-Nov-16	06:42:03
67	161031G2_67	IPA	01-Nov-16	06:54:40
68	161031G2_68	ST161031G2-14 PFC CS3.5 16J2903	01-Nov-16	07:07:18
69	161031G2_69	IPA	01-Nov-16	07:19:58

Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Method: U:\G1.PRO\MethDB\PFAS_18_A_LINEAR.mdb 28 Oct 2016 10:49:06
Calibration: 01 Nov 2016 11:15:44

Name: 161031G2_2, Date: 31-Oct-2016, Time: 17:13:53, ID: ST161031G2-1 PFC CS-2 16J3104, Description: PFC CS-2 16J3104 A

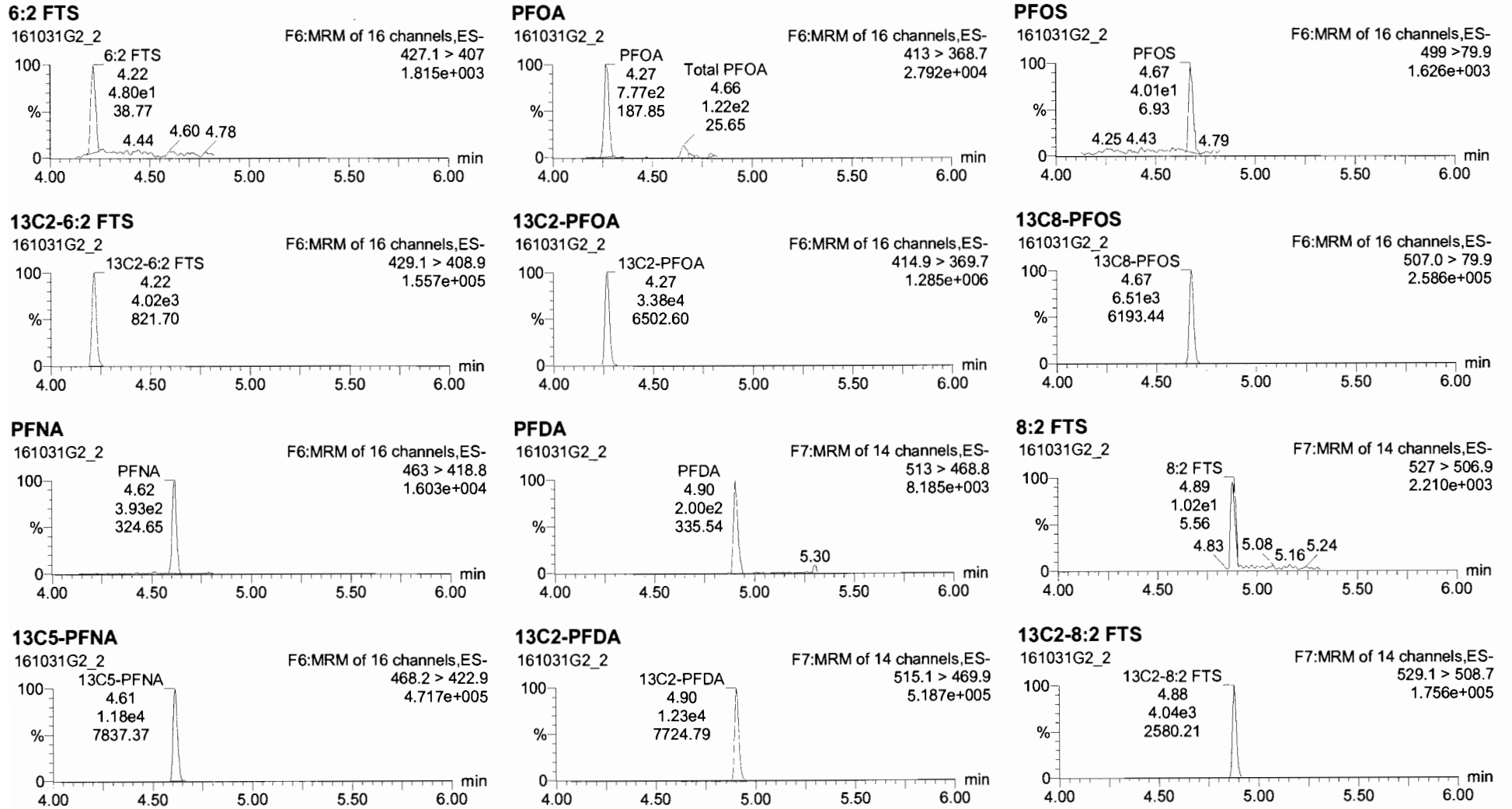


Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

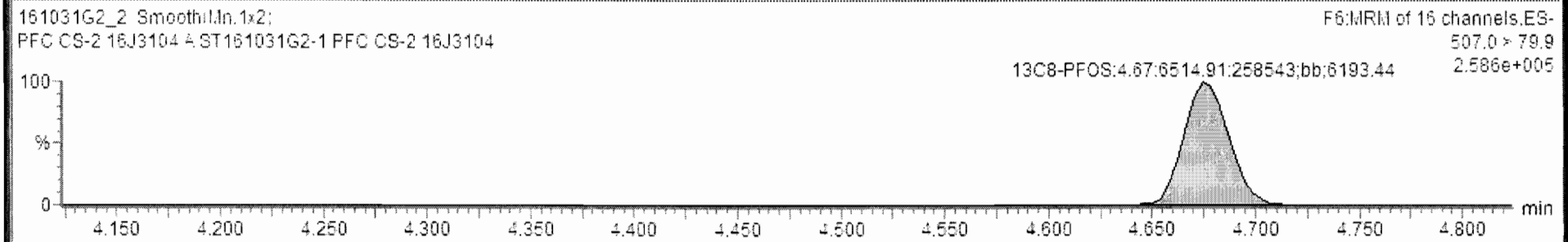
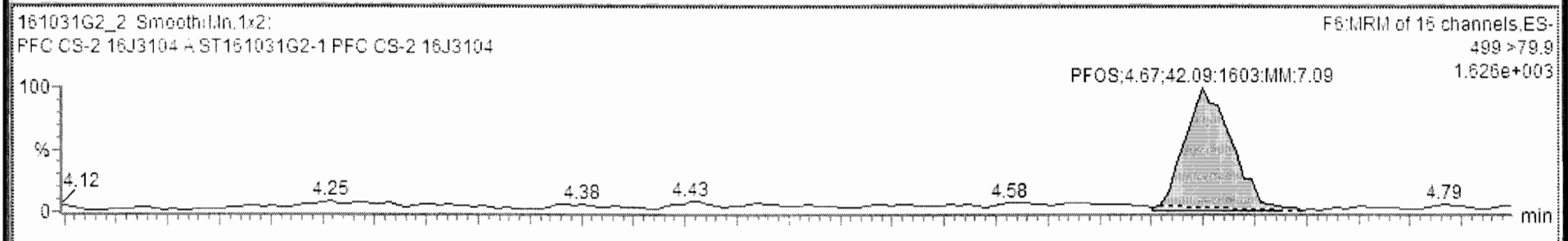
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_2, Date: 31-Oct-2016, Time: 17:13:53, ID: ST161031G2-1 PFC CS-2 16J3104, Description: PFC CS-2 16J3104 A



161031G2_2 - ST161031G2-1 PFC CS-2 16J3104 - PFC CS-2 16J3104 A

Name	Trace	Area	Response	RRF	Wt/Vol	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	2.80e2	0.190	1.522	1.75	0.283	226.4	0.0173602		0.9989
2	PFPeA	263.1 > 218.9	2.27e2	0.205	1.639	2.71	0.274	219.0	0.0327468		0.9990
3	PFBS	299 > 79.7	1.35e2	0.288	2.302	2.97	0.274	219.0	0.0676193		0.9987
4	PFHxA	313.2 > 268.9	2.70e2	0.189	1.512	3.33	0.305	243.6	0.0000000		0.9991
5	PFHpA	363 > 318.9	5.59e2	0.359	2.869	3.84	0.274	219.3	0.0229325		0.9990
6	PFHxS	398.9 > 79.6	2.26e2	0.448	3.583	3.97	0.317	253.5	0.0153934		0.9996
7	6:2 FTS	427.1 > 407	4.80e1	0.149	1.194	4.22	0.233	186.4	0.0112085		0.9774
8	PFOA	413 > 368.7	7.77e2	0.267	2.295	4.27	0.299	239.1	0.0000000		0.9981
9	PFOS	499 > 79.9	4.21e1	0.081	0.648	4.67	0.149	119.0	0.0866629		0.9954
10	PFNA	463 > 418.8	3.93e2	0.418	3.324	4.62	0.260	208.1	0.0347843		0.9990
11	PFDA	513 > 468.8	2.00e2	0.203	1.624	4.90	0.344	274.8	0.0285852		0.9984
12	6:2 FTS	527 > 506.9	1.02e1	0.032	0.253	4.89	0.0744	59.5	0.0626835		0.9982
13	13C3-PFBA	216.1 > 171.8	1.84e4	10.859	0.869	1.75	11.3	90.5	0.0087070	4.47	
14	13C3-PFPeA	266 > 221.8	1.39e4	5.896	0.472	2.71	11.2	89.6	0.0083985	4.47	



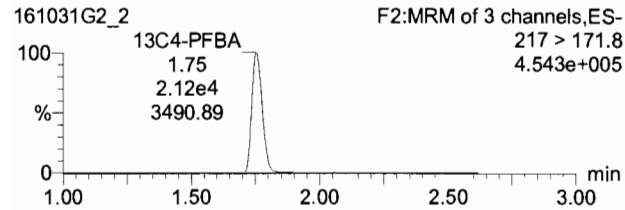
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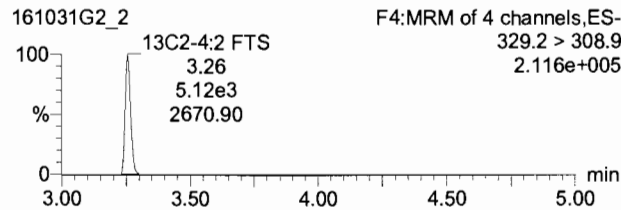
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Name: 161031G2_2, Date: 31-Oct-2016, Time: 17:13:53, ID: ST161031G2-1 PFC CS-2 16J3104, Description: PFC CS-2 16J3104 A

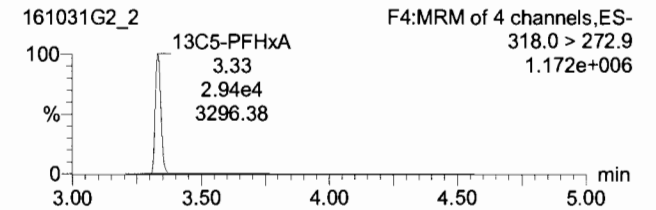
13C4-PFBA



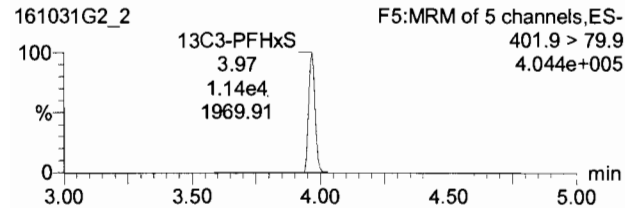
13C2-4:2 FTS



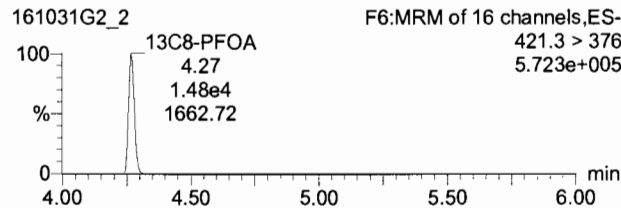
13C5-PFHxA



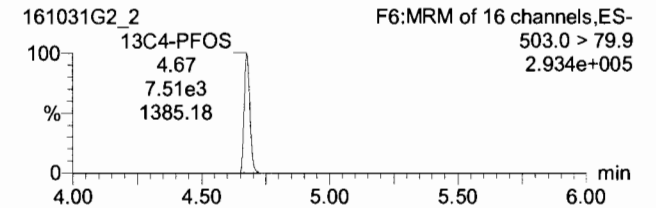
13C3-PFHxS



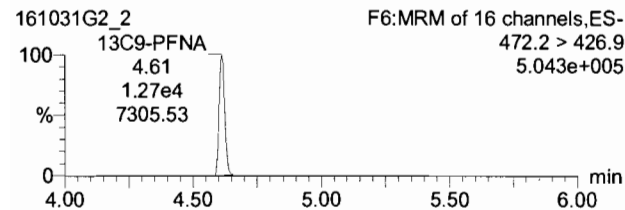
13C8-PFOA



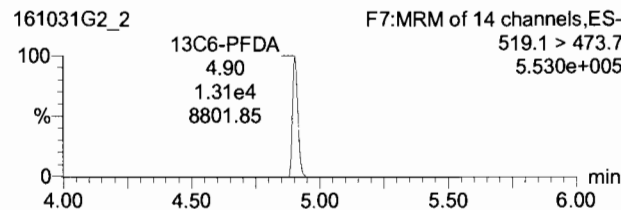
13C4-PFOS



13C9-PFNA



13C6-PFDA

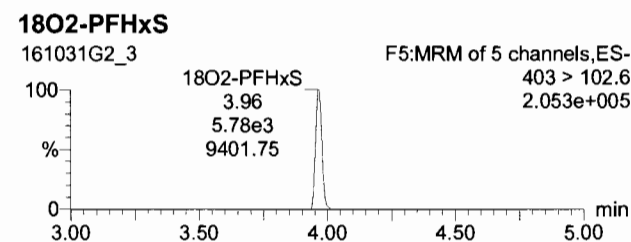
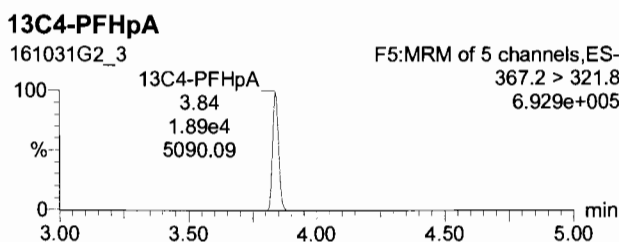
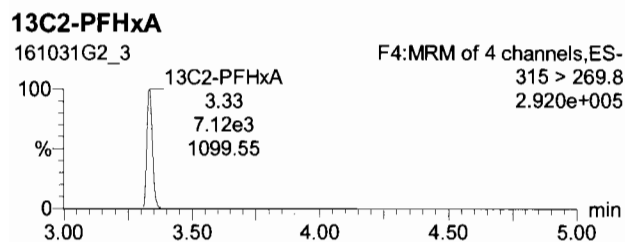
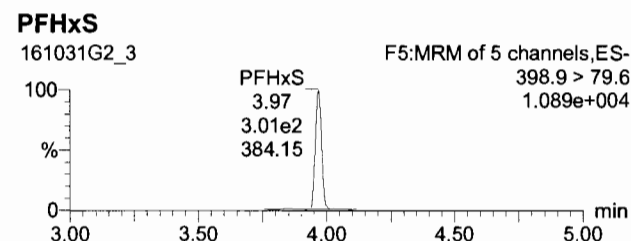
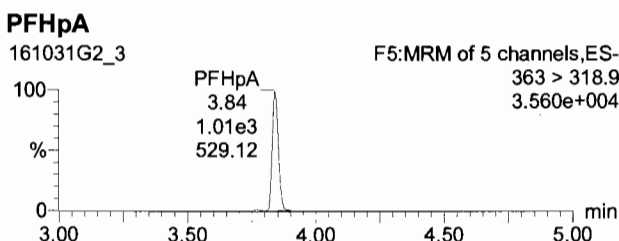
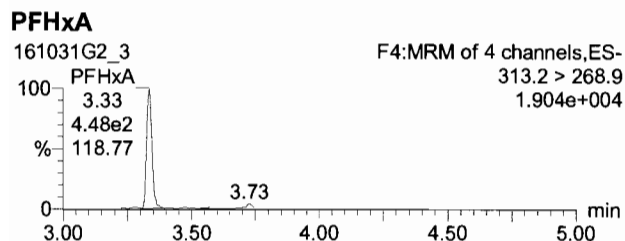
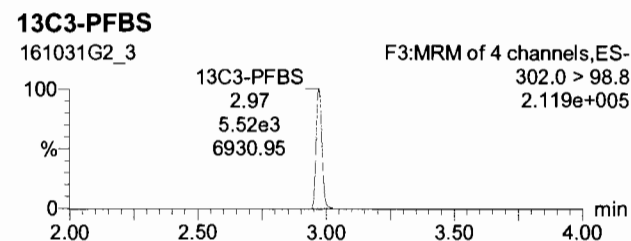
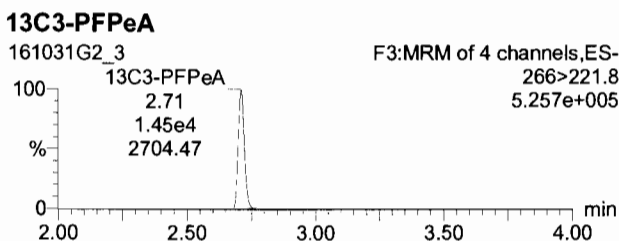
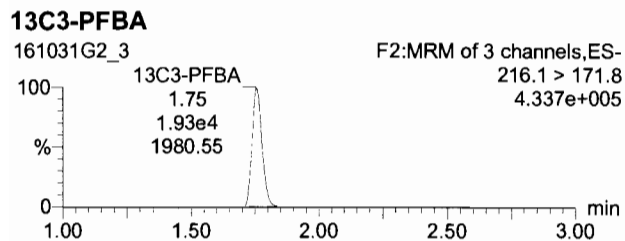
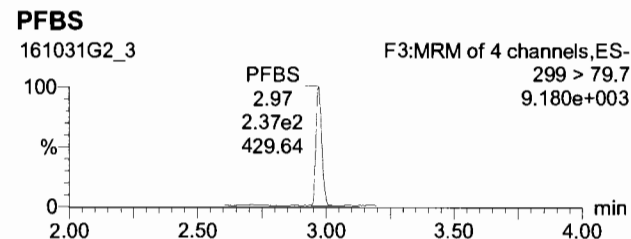
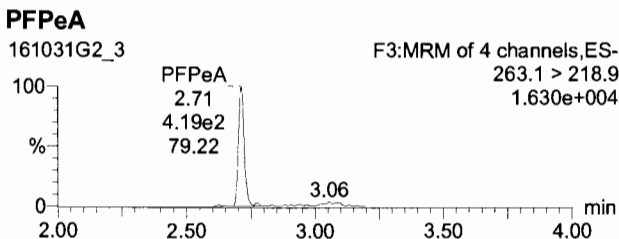
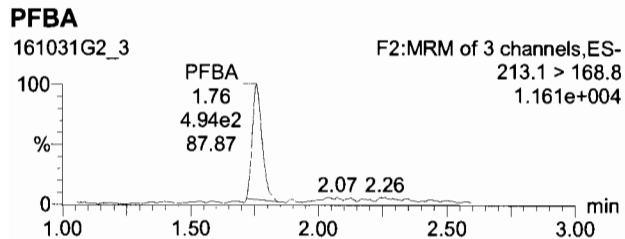


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Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

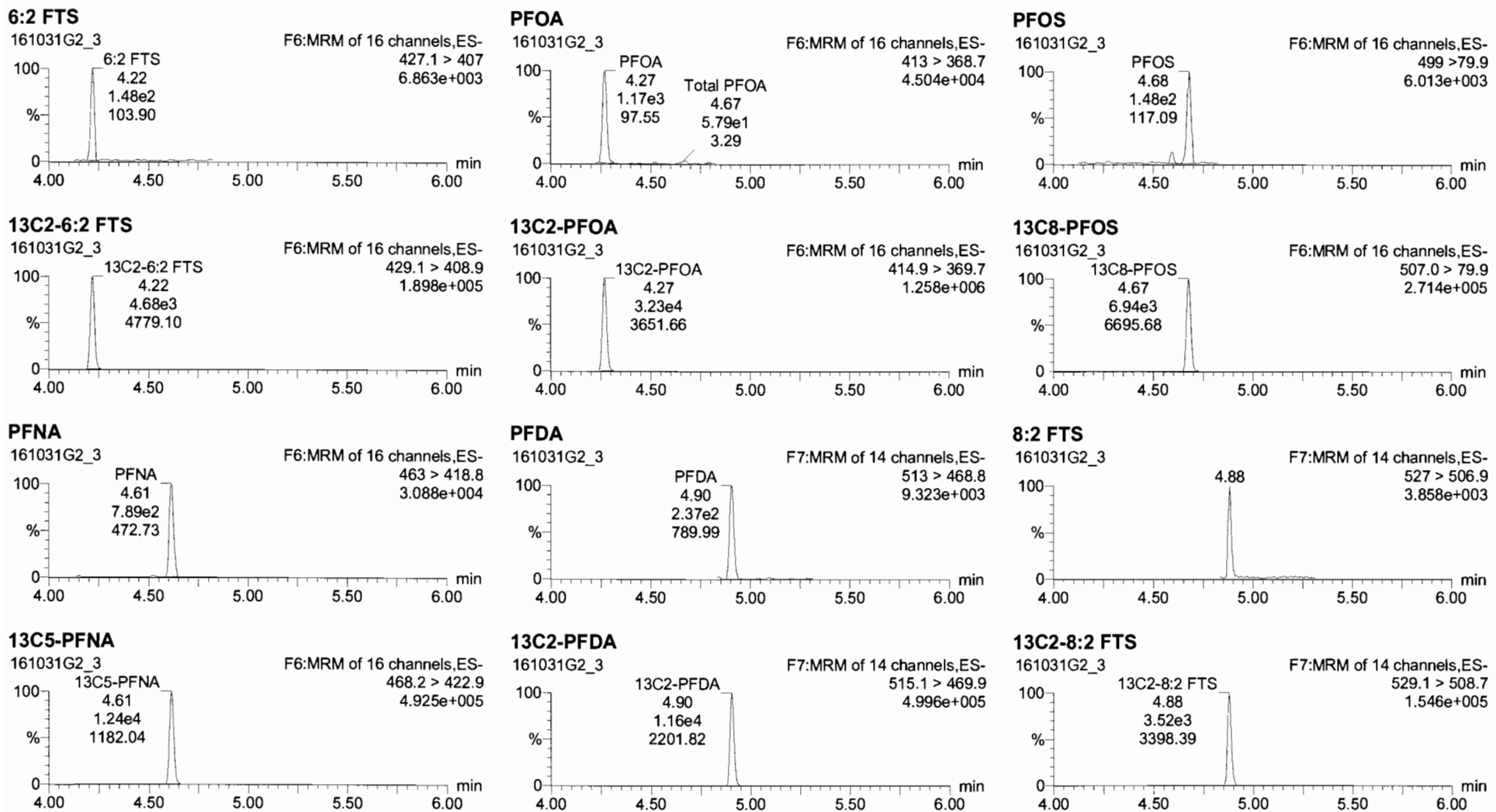
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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_3, Date: 31-Oct-2016, Time: 17:26:29, ID: ST161031G2-2 PFC CS-1 16J3105, Description: PFC CS-1 16J3105 A



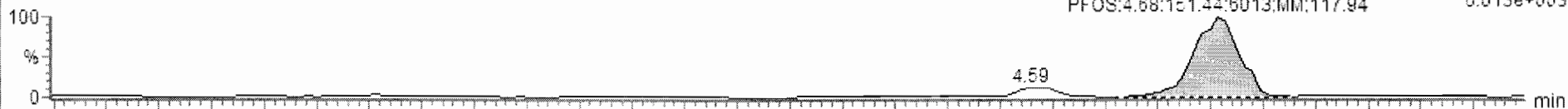


161031G2_3 - ST161031G2-2 PFC CS-1 16J3105 - PFC CS-1 16J3105 A

#	Name	Trace	RT	RA	y/n	Area	IS Area	Response	Primary Flags	Conc.	%Dev	%RSD	RRF M...	RRF SD
1	1	PFBA	213.1 > 168.8	1.76		4.94e2	1.93e4	0.321	bb	0.475	-5.0			
2	2	PFPeA	263.1 > 218.9	2.71		4.18e2	1.45e4	0.361	bd	0.468	-6.9			
3	3	PFBS	299 > 79.7	2.97		2.37e2	5.52e3	0.536	bb	0.453	-9.3			
4	4	PFHxA	313.2 > 268.9	3.33		4.48e2	7.12e3	0.315	bb	0.520	3.9			
5	5	PFHpA	363 > 318.9	3.84		1.01e3	1.89e4	0.666	bb	0.491	-1.8			
6	6	PFHxS	398.9 > 79.6	3.97		3.01e2	5.78e3	0.651	bb	0.455	-9.1			
7	7	8:2 FTS	427.1 > 407	4.22		1.48e2	4.68e3	0.394	bbX	0.636	27.1			
8	8	PFOA	413 > 368.7	4.27		1.17e3	3.23e4	0.455	bd	0.484	-3.2			
9	9	PFOS	499 > 79.9	4.68		1.51e2	6.84e3	0.277	MM	0.375	-25.0			
10	10	PFNA	463 > 418.8	4.61		7.89e2	1.24e4	0.795	bb	0.468	-6.5			
11	11	PFDA	513 > 468.8	4.90		2.37e2	1.16e4	0.256	bb	0.427	-14.6			
12	12	8:2 FTS	527 > 506.9	4.88		7.10e1	3.52e3	0.253	MM	0.430	-14.1			
13	13	13C3-PFBA	216.1 > 171.8	1.75		1.93e4	1.96e4	12.284	bb	12.8	2.4	4.47	0.980	0.0429
14	14	13C3-PFPeA	268 > 221.8	2.71		1.45e4	2.79e4	6.491	bb	12.3	-1.4	4.47	0.526	0.0235
15	15	13C3-PFBS	302.0 > 98.8	2.97		5.52e3	2.79e4	2.472	bd	11.9	-5.2	4.56	0.209	0.00950
16	16	13C2-PFHxA	315 > 269.8	3.33		7.12e3	2.79e4	3.187	bb	4.86	-2.7	4.68	0.655	0.0307
17	17	13C4-PFHpA	367.2 > 321.8	3.84		1.89e4	1.07e4	22.018	bb	11.6	-7.5	9.28	1.90	0.177
18	18	18O2-PFHxS	403 > 102.6	3.96		5.78e3	1.07e4	6.754	bd	11.7	-6.8	5.10	0.580	0.0296

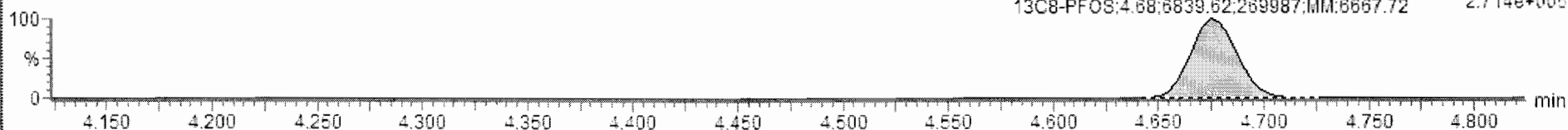
161031G2_3 Smooth(I.n.1x2)
PFC CS-1 16J3105 A ST161031G2-2 PFC CS-1 16J3105

F6:MRM of 16 channels,ES-
499 > 79.9
6.013e+003



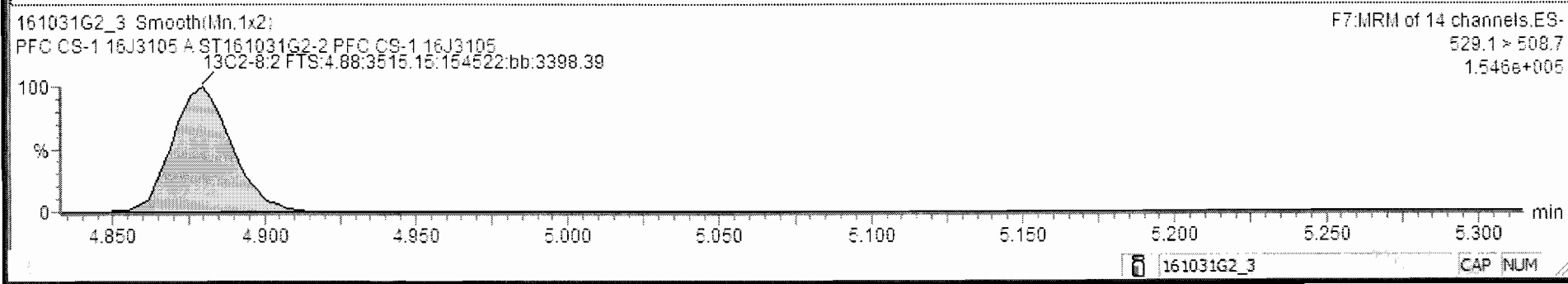
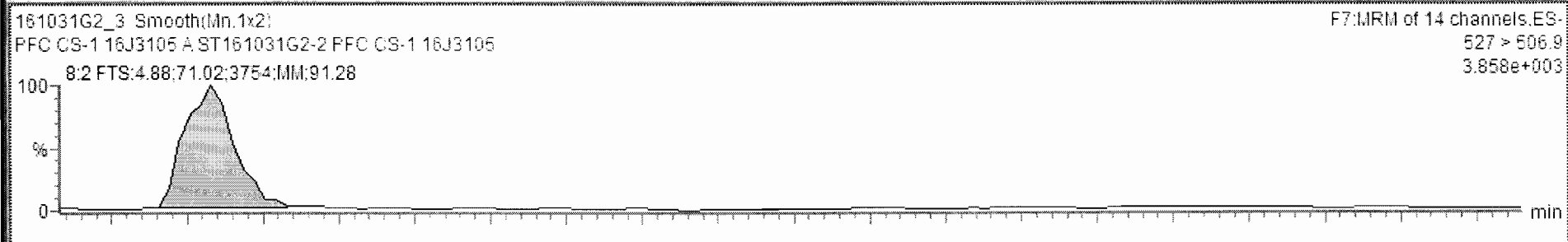
161031G2_3 Smooth(I.n.1x2)
PFC CS-1 16J3105 A ST161031G2-2 PFC CS-1 16J3105

F6:MRM of 16 channels,ES-
507.0 > 79.9
2.714e+005



161031G2_3 - ST161031G2-2 PFC CS-1 16J3105 - PFC CS-1 16J3105 A

Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	212.1 > 168.8	4.94e2	0.321	0.641	1.76	0.475	95.0	0.0167526		0.9989
2	PFPeA	263.1 > 218.9	4.19e2	0.361	0.722	2.71	0.466	93.1	0.0370513		0.9990
3	PFBS	299 > 79.7	2.37e2	0.536	1.072	2.97	0.453	90.7	0.0681073		0.9987
4	PFHxA	313.2 > 268.9	4.48e2	0.315	0.629	3.33	0.520	103.9	0.0000000		0.9991
5	PFHpA	363 > 318.9	1.01e3	0.666	1.333	3.84	0.491	98.2	0.0232738		0.9990
6	PFHxS	398.9 > 79.6	3.01e2	0.651	1.301	3.97	0.455	90.9	0.0157119		0.9996
7	8:2 FTS	427.1 > 407	1.48e2	0.394	0.787	4.22	0.620	124.0	0.0142105		0.9774
8	PFOA	413 > 368.7	1.17e3	0.455	0.910	4.27	0.484	98.8	0.0000000		0.9981
9	PFOS	499 > 79.9	1.48e2	0.267	0.533	4.68	0.386	73.3	0.0635175		0.9954
10	PFNA	463 > 418.6	7.89e2	0.795	1.590	4.61	0.468	93.5	0.0352554		0.9990
11	PFDA	513 > 468.8	2.37e2	0.256	0.513	4.90	0.427	85.4	0.0274466		0.9984
12	8:2 FTS	527 > 506.9	7.10e1	0.253	0.505	4.88					
13	13C3-PFBA	216.1 > 171.6	1.93e4	12.284	0.983	1.75	12.8	102.4	0.0164674	4.47	
14	13C3-PFPeA	266 > 221.8	1.45e4	6.491	0.519	2.71	12.3	98.6	0.0100124	4.47	



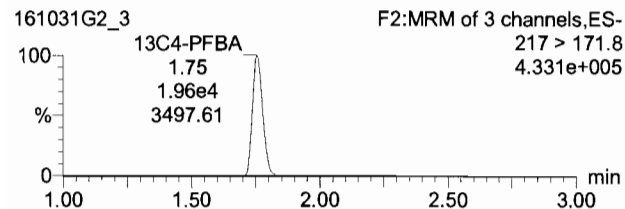
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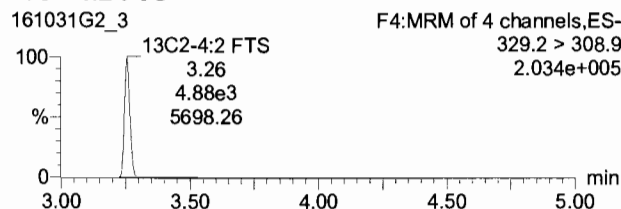
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Name: 161031G2_3, Date: 31-Oct-2016, Time: 17:26:29, ID: ST161031G2-2 PFC CS-1 16J3105, Description: PFC CS-1 16J3105 A

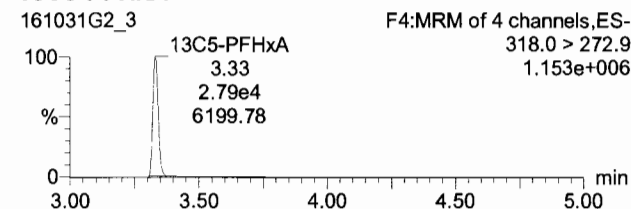
13C4-PFBA



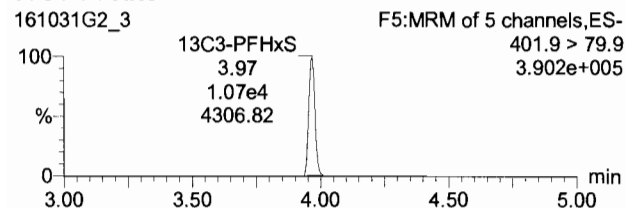
13C2-4:2 FTS



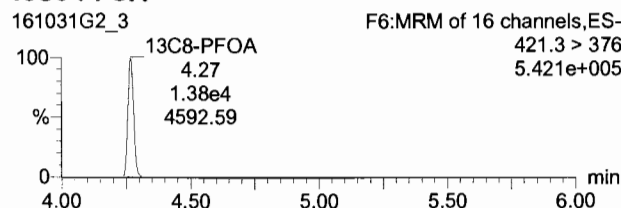
13C5-PFHxA



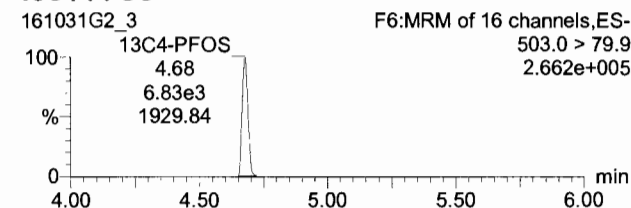
13C3-PFHxS



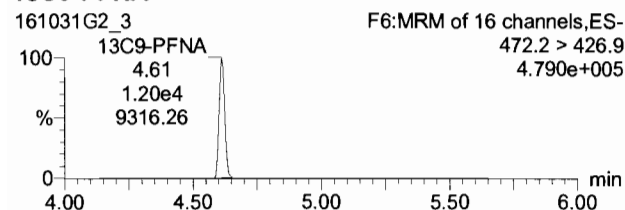
13C8-PFOA



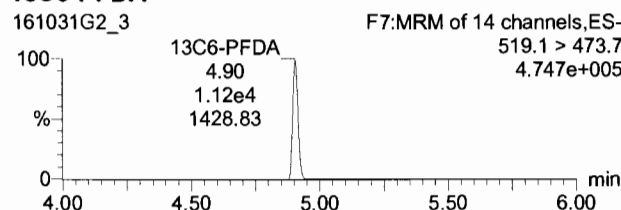
13C4-PFOS



13C9-PFNA



13C6-PFDA

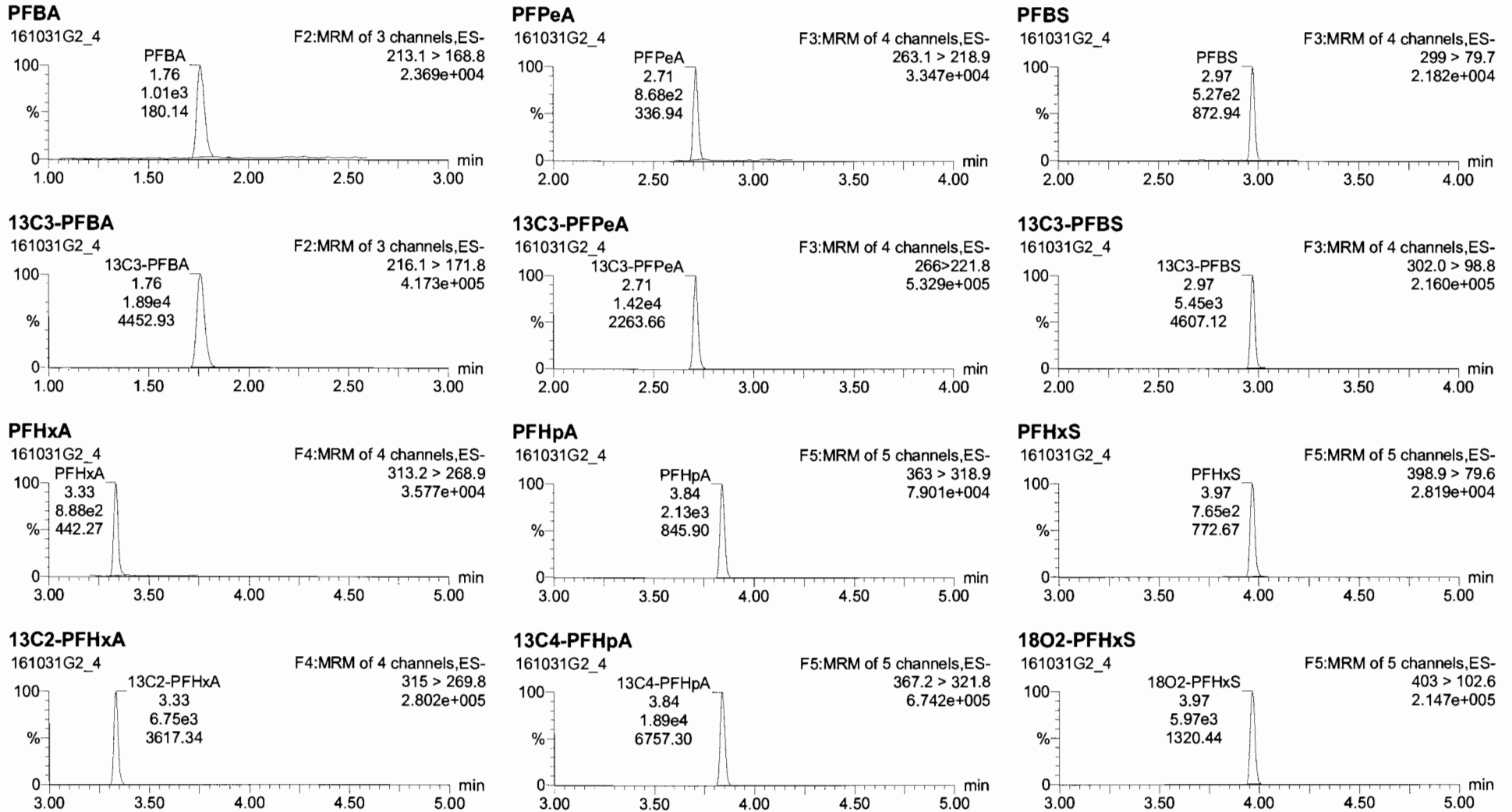


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Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

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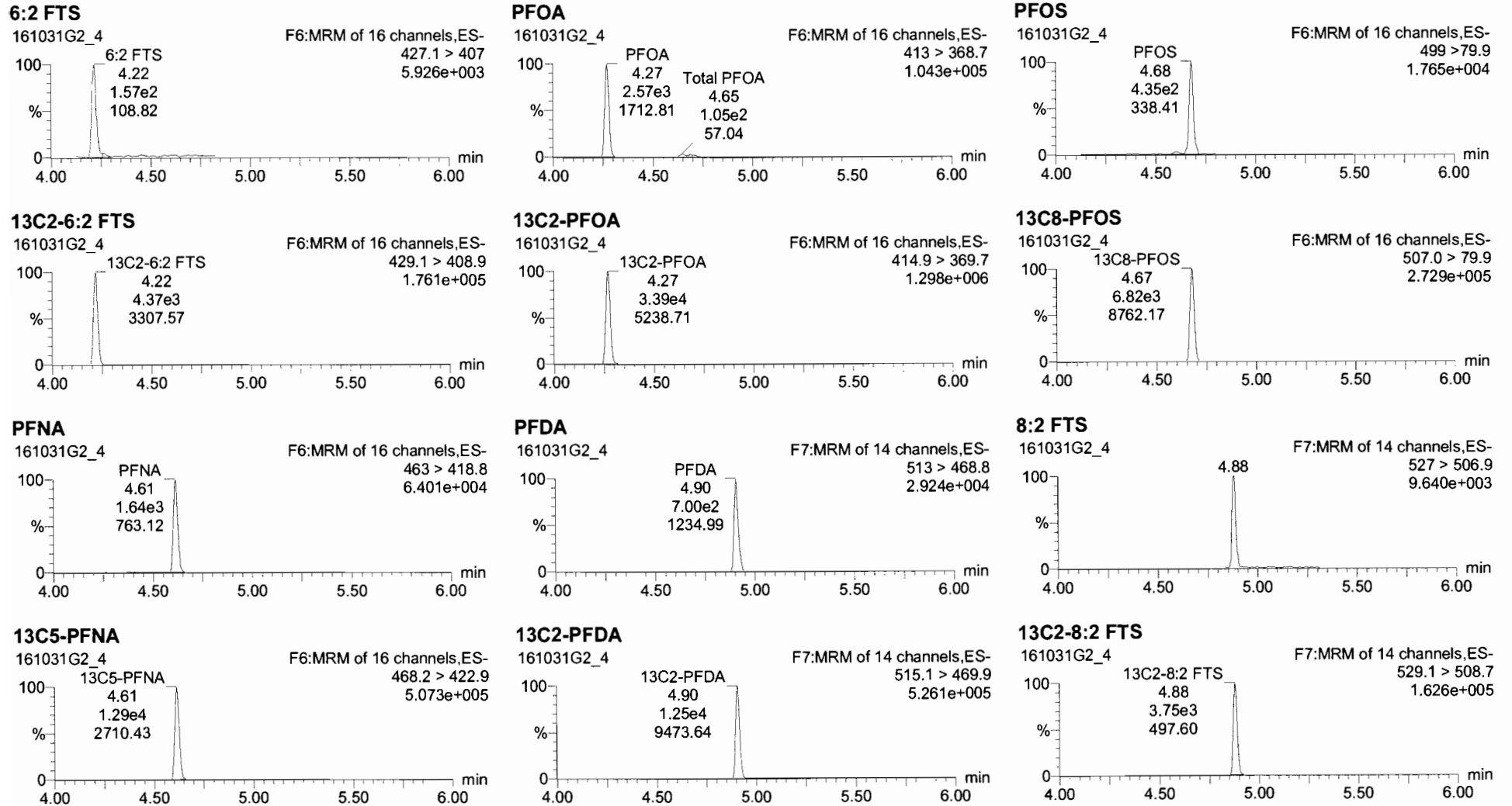


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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

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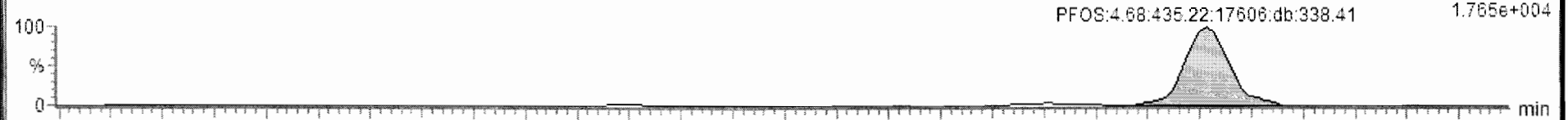


161031G2_4 - ST161031G2-3 PFC CS0 16J3107 - PFC CS0 16J3107 A

#	Name	Trace	RT	RA	y/n	Area	IS Area	Response	Primary Flags	Conc.	%Dev	%RSD	RRF M...	RRF SD
1	PFBA	213.1 > 168.8	1.76			1.01e3	1.89e4	0.672	bb	0.991	-0.9			
2	PFPeA	263.1 > 218.9	2.71			8.68e2	1.42e4	0.763	bb	0.960	-4.0			
3	PFBS	299 > 79.7	2.97			5.27e2	5.45e3	1.207	bb	0.938	-6.2			
4	PFHxA	313.2 > 268.9	3.33			8.88e2	6.75e3	0.658	bb	1.11	10.9			
5	PFHpA	363 > 318.9	3.84			2.13e3	1.89e4	1.409	bb	1.01	1.5			
6	PFHxS	398.9 > 79.6	3.97			7.65e2	5.97e3	1.601	bb	1.10	9.9			
7	6:2 FTS	427.1 > 407	4.22			1.57e2	4.37e3	0.449	bd	0.720	-28.0			
8	PFOA	413 > 368.7	4.27			2.57e3	3.39e4	0.949	bb	1.03	2.7			
9	PFOS	499 > 79.9	4.68			4.35e2	6.84e3	0.795	db	0.977	-2.3			
10	PFNA	463 > 418.8	4.61			1.64e3	1.29e4	1.596	bd	0.905	-9.5			
11	PFDA	513 > 468.8	4.90			7.00e2	1.25e4	0.698	bb	1.12	11.7			
12	6:2 FTS	527 > 506.9	4.88			2.05e2	3.75e3	0.683	MM	1.14	14.4			
13	13C3-PFBA	216.1 > 171.6	1.76			1.89e4	2.04e4	11.579	bb	12.1	-3.5	4.47	0.960	0.0429
14	13C3-PFPeA	266 > 221.8	2.71			1.42e4	2.75e4	6.459	bb	12.3	-1.8	4.47	0.526	0.0235
15	13C3-PFBS	302.0 > 98.8	2.97			5.45e3	2.75e4	2.450	bd	11.9	-4.5	4.56	0.209	0.00950
16	13C2-PFHxA	315 > 269.8	3.33			6.75e3	2.75e4	3.068	bd	4.68	-6.4	4.68	0.655	0.0307
17	13C4-PFHpA	367.2 > 321.8	3.84			1.89e4	1.13e4	20.948	bb	11.0	-12.0	9.28	1.90	0.177
18	18O2-PFHxS	403 > 102.6	3.97			5.97e3	1.13e4	6.629	bb	11.4	-8.5	5.10	0.580	0.0266

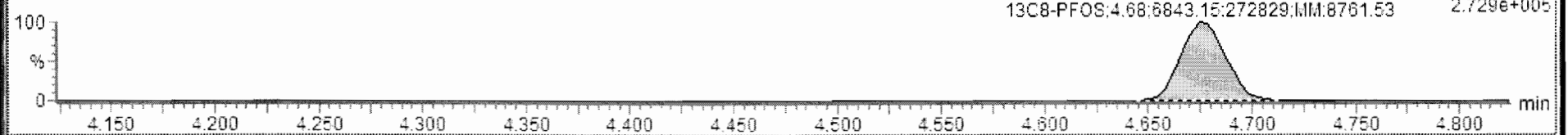
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PFC CS0 16J3107 A ST161031G2-3 PFC CS0 16J3107

F5:M/RM of 16 channels,ES-
499 > 79.9
1.765e+004



161031G2_4 Smooth(Mn,1x2)
PFC CS0 16J3107 A ST161031G2-3 PFC CS0 16J3107

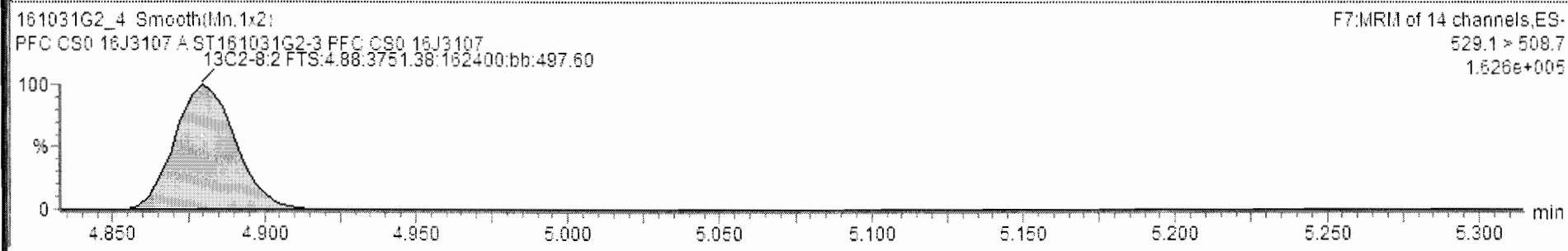
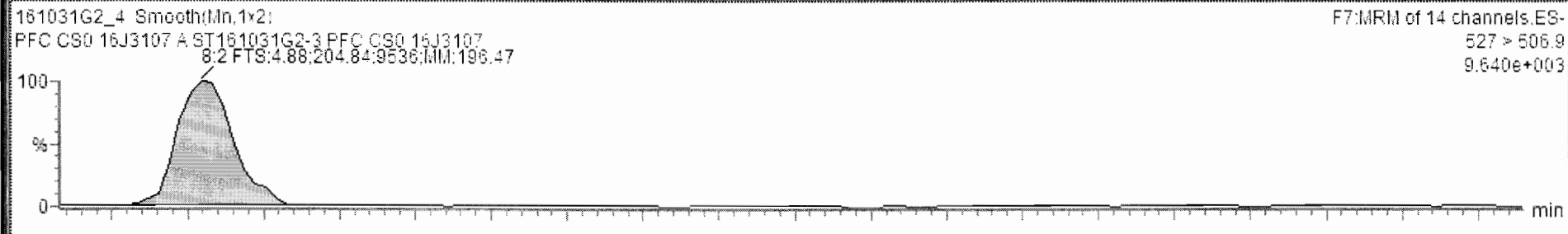
F5:M/RM of 16 channels,ES-
507.0 > 79.9
2.729e+005





161031G2_4 - ST161031G2-3 PFC CS0 16J3107 - PFC CS0 16J3107 A

Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	1.01e3	0.672	0.672	1.000	1.76	0.991	99.1	0.0175301	0.9989
2	PFPeA	263.1 > 218.9	8.88e2	0.763	0.763	1.000	2.71	0.960	96.0	0.0291939	0.9990
3	PFBS	299 > 79.7	5.27e2	1.207	1.207	1.000	2.97	0.938	93.8	0.0684562	0.9987
4	PFHxA	313.2 > 268.9	8.88e2	0.658	0.658	1.000	3.33	1.11	110.9	0.0000000	0.9991
5	PFHpA	363 > 318.9	2.13e3	1.409	1.409	1.000	3.84	1.01	101.5	0.0241869	0.9990
6	PFHxS	398.9 > 79.6	7.65e2	1.601	1.601	1.000	3.97	1.10	109.9	0.0164003	0.9996
7	8:2 FTS	427.1 > 407	1.57e2	0.449	0.449	1.000	4.22	0.708	70.8	0.0124129	0.9774
8	PFOA	413 > 368.7	2.57e3	0.949	0.949	1.000	4.27	1.03	102.7	0.0000000	0.9981
9	PFOS	499 > 79.9	4.35e2	0.798	0.798	1.000	4.68	0.983	98.3	0.0636128	0.9954
10	PFNA	463 > 418.8	1.84e3	1.596	1.596	1.000	4.61	0.905	90.5	0.0358233	0.9990
11	PFDA	513 > 468.8	7.00e2	0.698	0.698	1.000	4.90	1.12	111.7	0.0284894	0.9984
12	8:2 FTS	527 > 506.9	2.05e2	0.683	0.683	1.000	4.88	1.00	100.0	0.0276734	1.0000
13	13C3-PFBA	216.1 > 171.8	1.89e4	11.579	0.928	1.000	1.76	12.1	96.5	0.0068688	4.47
14	13C3-PFPeA	266 > 221.8	1.42e4	8.459	0.517	1.000	2.71	12.3	98.2	0.0122752	4.47



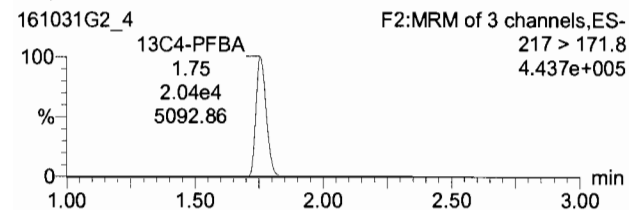
Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

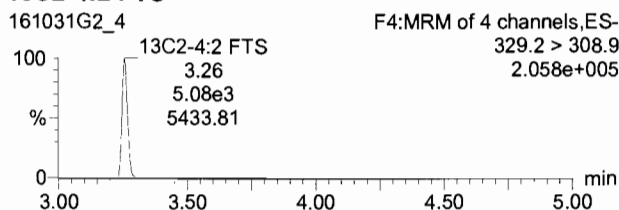
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_4, Date: 31-Oct-2016, Time: 17:39:06, ID: ST161031G2-3 PFC CS0 16J3107, Description: PFC CS0 16J3107 A

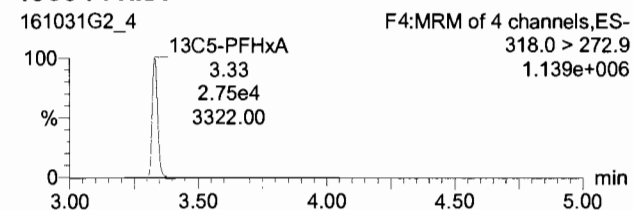
13C4-PFBA



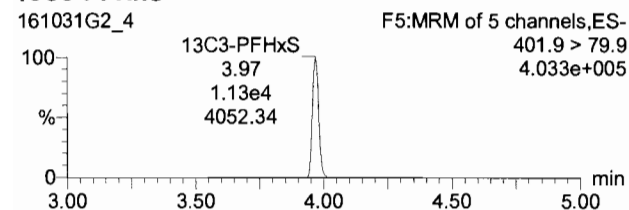
13C2-4:2 FTS



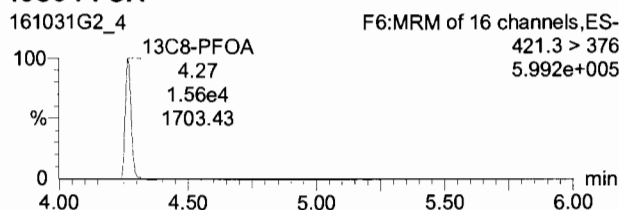
13C5-PFHxA



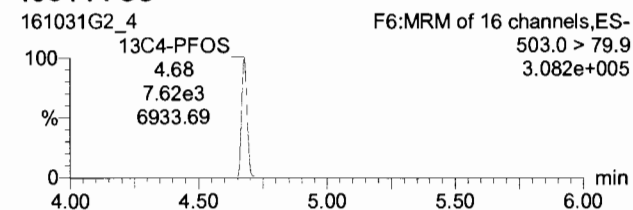
13C3-PFHxS



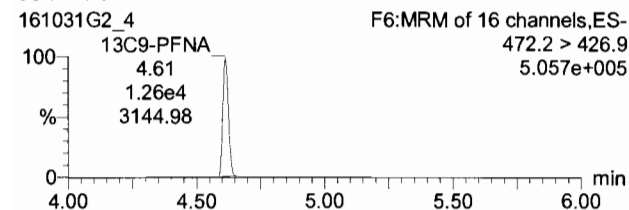
13C8-PFOA



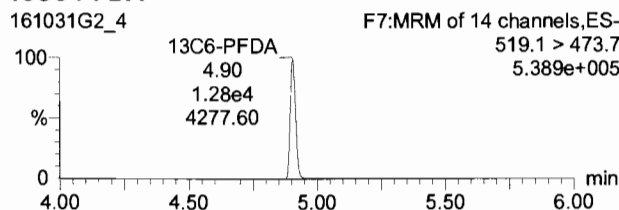
13C4-PFOS



13C9-PFNA



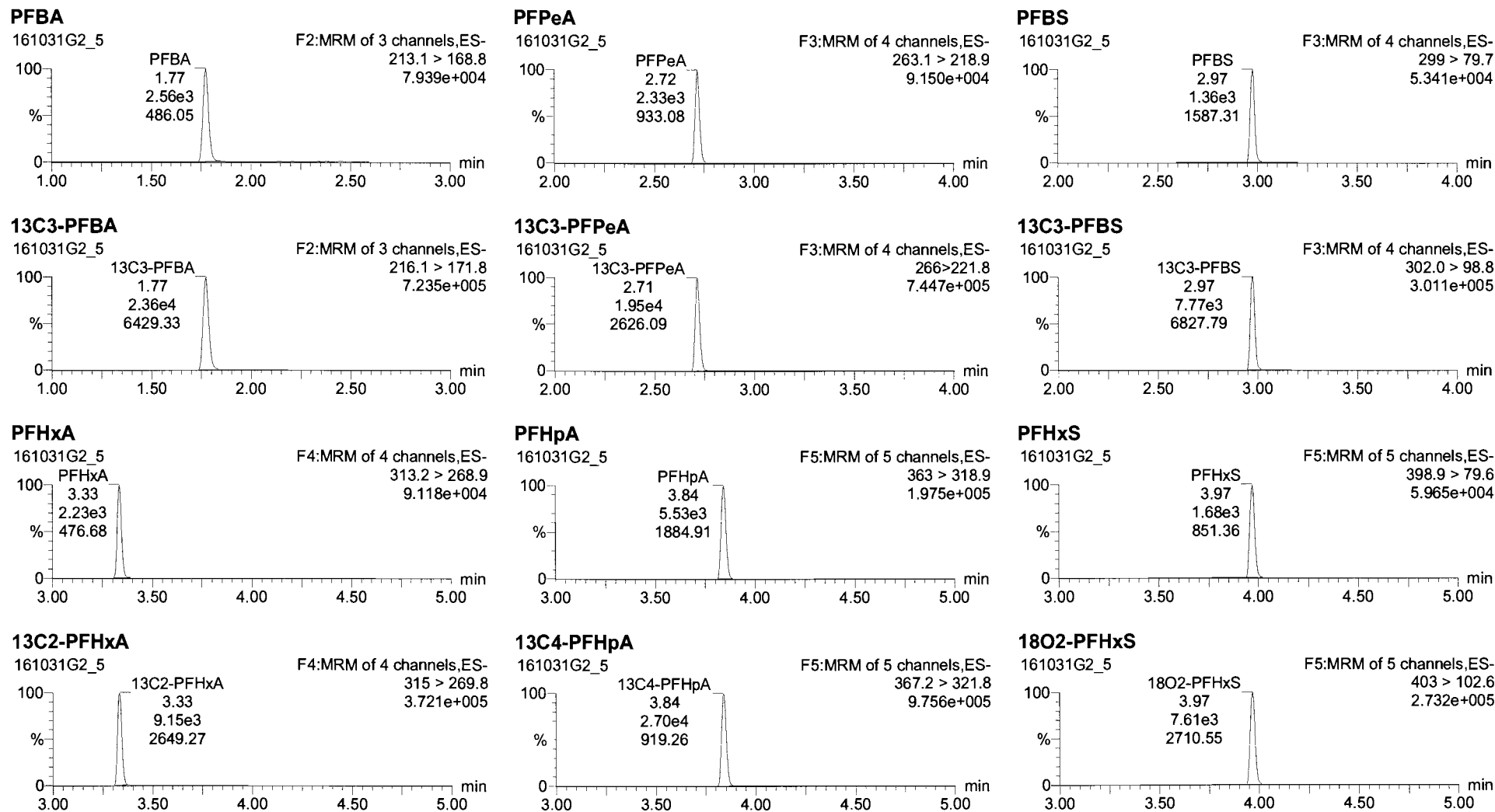
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Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

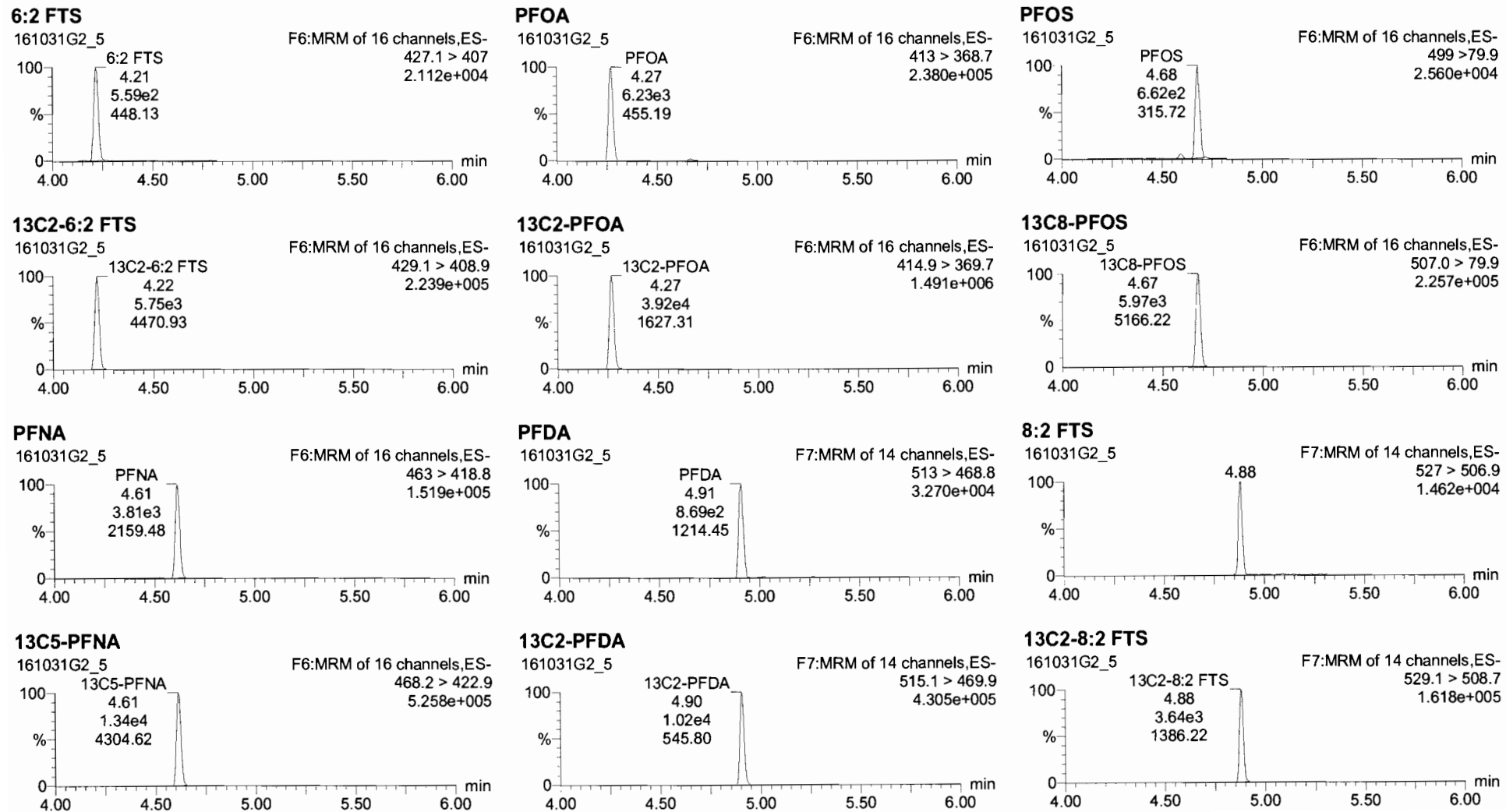
Name: 161031G2_5, Date: 31-Oct-2016, Time: 17:51:42, ID: ST161031G2-4 PFC CS1 16J2706, Description: PFC CS1 16J2706 A



Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_5, Date: 31-Oct-2016, Time: 17:51:42, ID: ST161031G2-4 PFC CS1 16J2706, Description: PFC CS1 16J2706 A



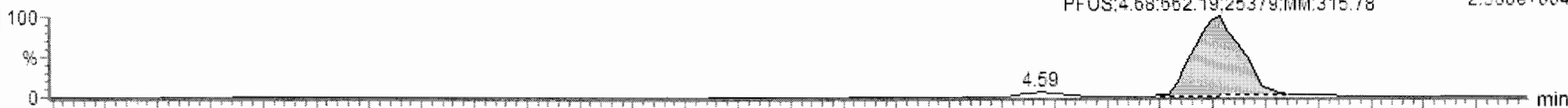


161031G2_5 - ST161031G2-4 PFC CS1 16J2706 - PFC CS1 16J2706 A

#	Name	Trace	RT	RA	y/n	Area	IS Area	Response	Primary Flags	Conc.	%Dev	%RSD	RRF M...	RRF SD
1	PFBA	212.1 > 188.8	1.77			2.56e3	2.36e4	1.355	bb	2.00	-0.2			
2	PFPeA	263.1 > 218.9	2.71			2.33e3	1.95e4	1.490	bb	1.85	-7.3			
3	PFBS	299 > 79.7	2.97			1.36e3	7.77e3	2.181	bb	1.84	-17.9			
4	PFHxA	313.2 > 268.9	3.33			2.23e3	9.15e3	1.219	bd	2.07	3.5			
5	PFHpA	363 > 318.9	3.84			5.53e3	2.70e4	2.582	bb	1.83	-8.8			
6	PFHxS	398.9 > 79.6	3.97			1.68e3	7.61e3	2.759	bb	1.89	-5.7			
7	6:2 FTS	427.1 > 407	4.21			5.59e2	5.75e3	1.215	bb	1.90	-5.2			
8	PFOA	413 > 368.7	4.27			6.23e3	3.92e4	1.985	bb	2.17	8.3			
9	PFOS	499 > 79.9	4.68			6.62e2	5.97e3	1.387	MM	1.66	-16.8			
10	PFNA	463 > 418.8	4.61			3.81e3	1.34e4	3.560	bb	1.98	-1.0			
11	PFDA	513 > 468.8	4.91			8.69e2	1.02e4	1.082	bb	1.89	-15.7			
12	6:2 FTS	527 > 506.9	4.88			3.27e2	3.64e3	1.122	MM	1.88	-6.2			
13	13C3-PFBA	218.1 > 171.8	1.77			2.36e4	2.55e4	11.604	bb	12.1	-3.3	4.47	0.960	0.0429
14	13C3-PFPeA	268 > 221.8	2.71			1.95e4	3.57e4	6.836	bb	13.0	3.9	4.47	0.528	0.0235
15	13C3-PFBS	302.0 > 98.8	2.97			7.77e3	3.57e4	2.721	bb	13.1	4.4	4.56	0.209	0.00950
16	13C2-PFHxA	315 > 268.8	3.33			9.15e3	3.57e4	3.204	bb	4.89	-2.2	4.68	0.655	0.0307
17	13C4-PFHpA	367.2 > 321.6	3.84			2.70e4	1.28e4	26.372	bb	13.8	10.8	9.28	1.90	0.177
18	18O2-PFHxS	403 > 102.6	3.97			7.61e3	1.28e4	7.441	bb	12.8	2.7	5.10	0.580	0.0298

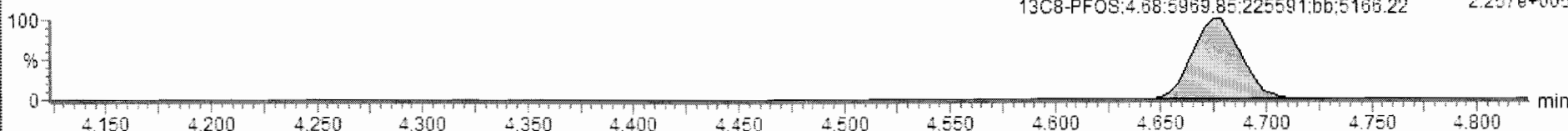
161031G2_5 Smooth(Mn,1x2)
PFC CS1 16J2706 A ST161031G2-4 PFC CS1 16J2706

F6:MRM of 16 channels,ES-
499 > 79.9
2.560e+004



161031G2_5 Smooth(Mn,1x2)
PFC CS1 16J2706 A ST161031G2-4 PFC CS1 16J2706

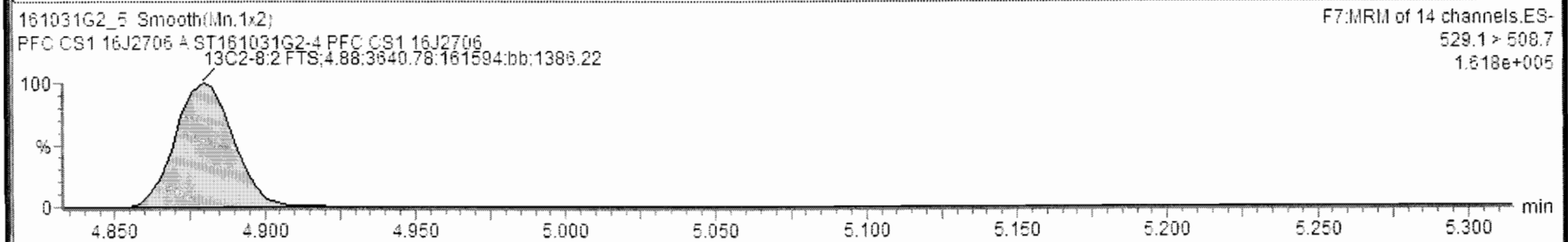
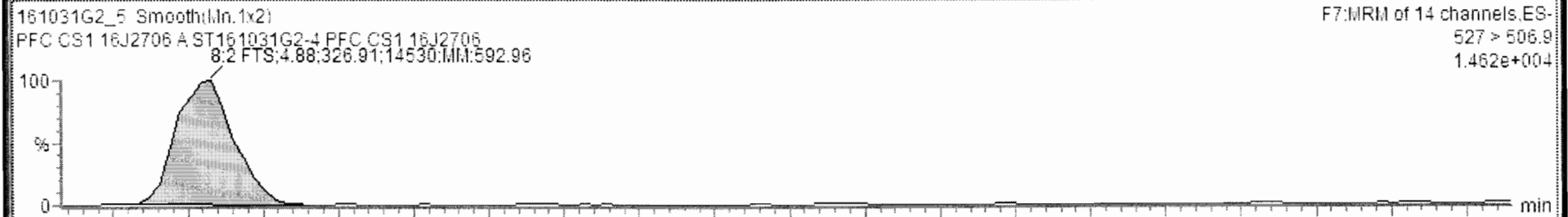
F6:MRM of 16 channels,ES-
507.0 > 79.9
2.257e+005





161031G2_5 - ST161031G2-4 PFC CS1 16J2706 - PFC CS1 16J2706 A

Name	Trace	Area	Response	RRF	Wt/WoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	2.56e3	1.355	0.678	1.000	1.77	2.00	99.8	0.0136362	0.9989
2	PFPeA	263.1 > 218.9	2.33e3	1.490	0.745	1.000	2.72	1.85	92.7	0.0271575	0.9990
3	PFBS	299 > 79.7	1.36e3	2.181	1.090	1.000	2.97	1.64	82.1	0.0683733	0.9987
4	PFHxA	313.2 > 268.9	2.23e3	1.219	0.610	1.000	3.33	2.07	103.5	0.0000000	0.9991
5	PFHpA	363 > 318.9	5.53e3	2.562	1.281	1.000	3.84	1.83	91.4	0.0234992	0.9990
6	PFHxS	398.9 > 79.6	1.68e3	2.759	1.379	1.000	3.97	1.89	94.3	0.0182447	0.9996
7	8:2 FTS	427.1 > 407	5.59e2	1.215	0.608	1.000	4.21	1.93	96.4	0.0075298	0.9774
8	PFOA	413 > 368.7	6.23e2	1.985	0.993	1.000	4.27	2.17	108.3	0.0000000	0.9981
9	PFOS	499 > 79.9	6.62e2	1.386	0.693	1.000	4.68	1.67	83.3	0.0696217	0.9954
10	PFNA	463 > 418.8	3.81e3	3.560	1.720	1.000	4.61	1.98	99.0	0.0352851	0.9990
11	PFDA	513 > 468.8	8.69e2	1.062	0.531	1.000	4.91	1.69	84.3	0.0293485	0.9984
12	8:2 FTS	527 > 506.9	3.27e2	1.122	0.561	1.000	4.88	1.95	97.4	0.0153251	0.9867
13	13C3-PFBA	216.1 > 171.8	2.36e4	11.604	0.928	1.000	1.77	12.1	96.7	0.0047426	4.47
14	13C3-PFPeA	266 > 221.8	1.95e4	6.836	0.547	1.000	2.71	13.0	103.9	0.0115528	4.47

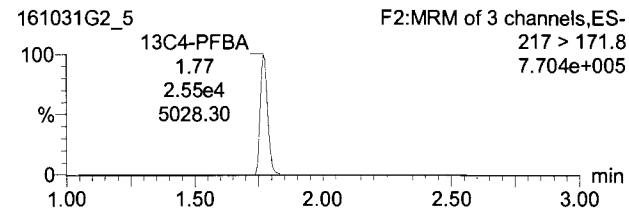


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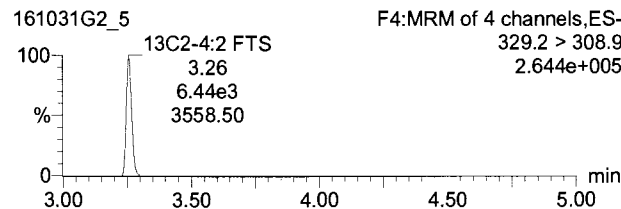
Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_5, Date: 31-Oct-2016, Time: 17:51:42, ID: ST161031G2-4 PFC CS1 16J2706, Description: PFC CS1 16J2706 A

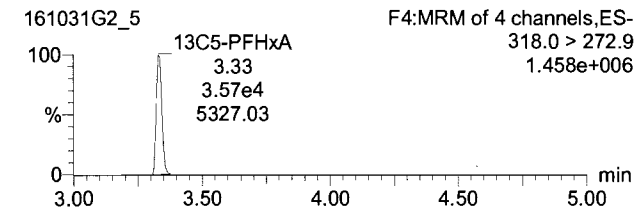
13C4-PFBA



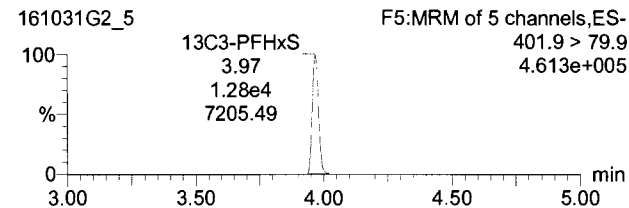
13C2-4:2 FTS



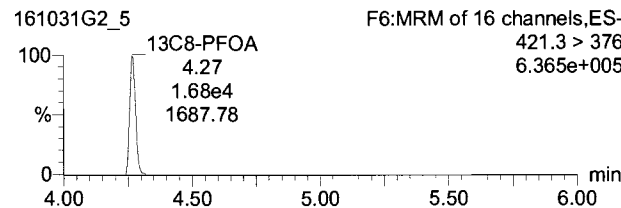
13C5-PFHxA



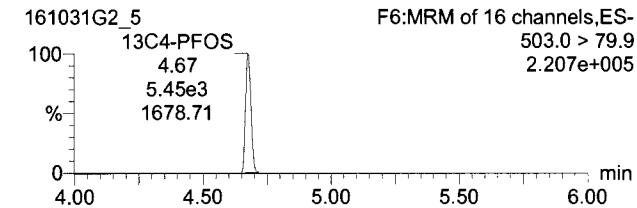
13C3-PFHxS



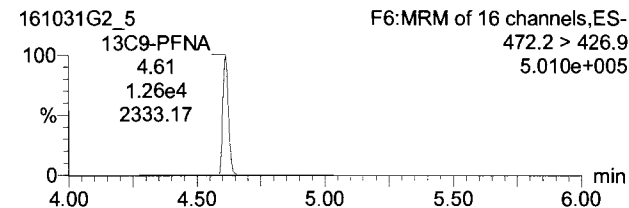
13C8-PFOA



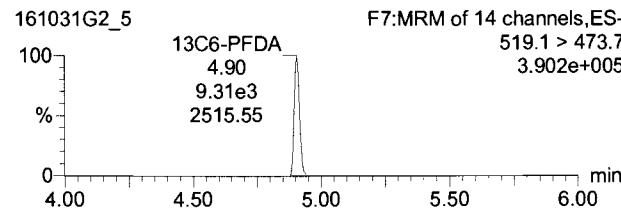
13C4-PFOS



13C9-PFNA



13C6-PFDA

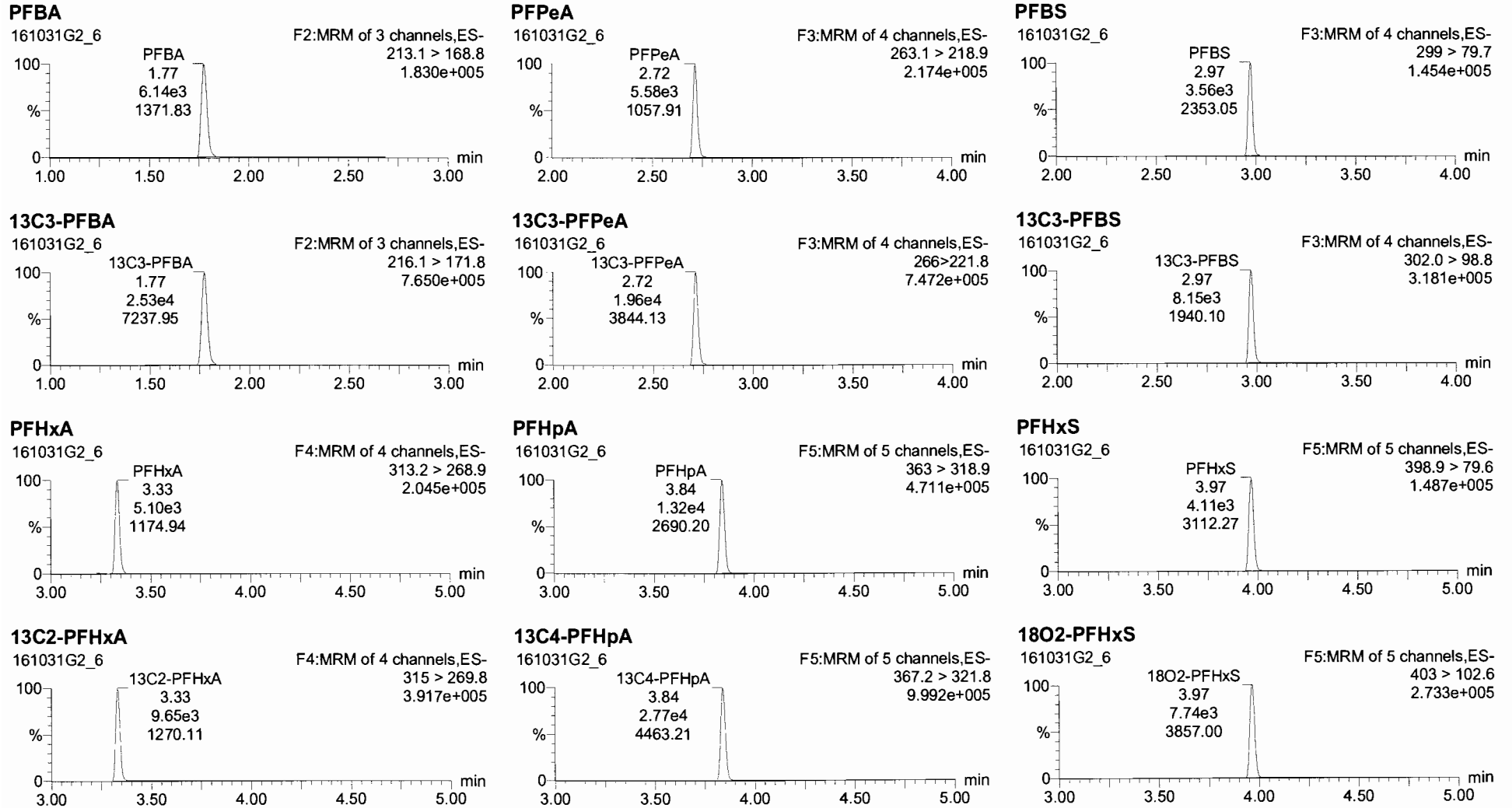


Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_6, Date: 31-Oct-2016, Time: 18:04:20, ID: ST161031G2-5 PFC CS2 16J2707, Description: PFC CS2 16J2707 A

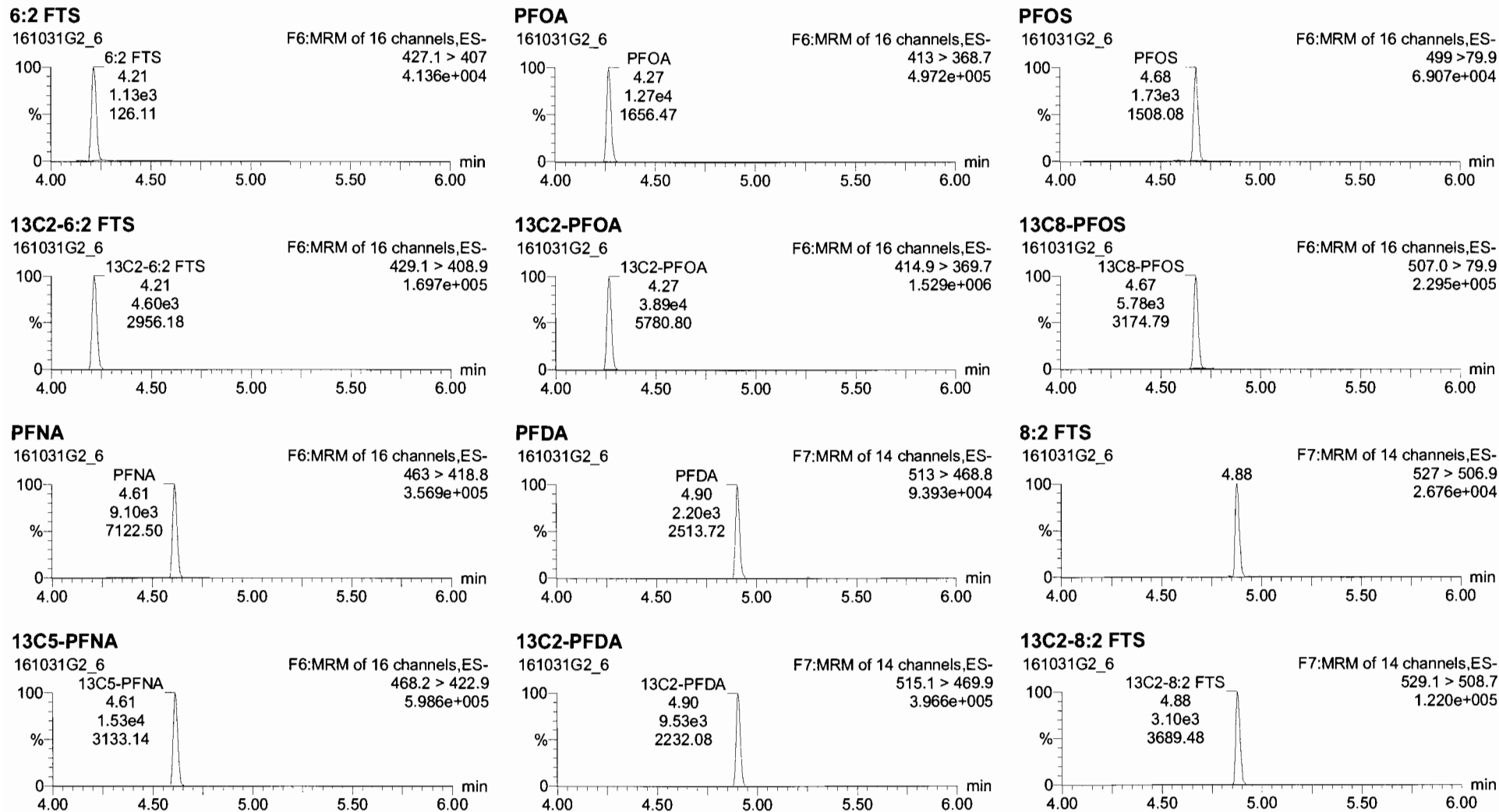


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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_6, Date: 31-Oct-2016, Time: 18:04:20, ID: ST161031G2-5 PFC CS2 16J2707, Description: PFC CS2 16J2707 A





161031G2_6 - ST161031G2-5 PFC CS2 16J2707 - PFC CS2 16J2707 A

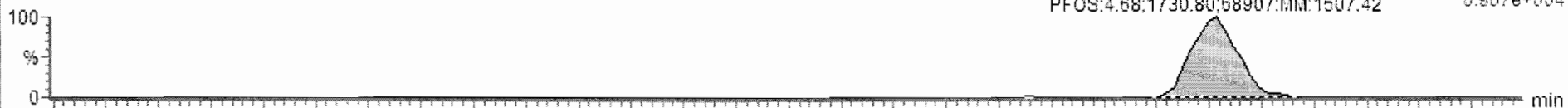
Display Default

#	Name	Trace	RT	RA	y/n	Area	IS Area	Response	Primary Flags	Conc.	%Dev	%RSD	RRF M...	RRF SD
1	1	PFBA	213.1 > 168.8	1.77		6.14e3	2.53e4	3.037	bb	4.47	-10.6			
2	2	PFPeA	263.1 > 218.9	2.71		5.58e3	1.96e4	3.559	bb	4.39	-12.1			
3	3	PFBS	299 > 79.7	2.97		3.56e3	8.15e3	5.467	bb	4.02	-19.7			
4	4	PFHxA	313.2 > 288.9	3.33		5.10e3	9.85e3	2.642	bd	4.51	-9.8			
5	5	PFHpA	363 > 318.9	3.84		1.32e4	2.77e4	5.947	bb	4.22	-15.7			
6	6	PFHxS	398.9 > 79.6	3.97		4.11e3	7.74e3	6.644	bd	4.52	-9.5			
7	7	8:2 FTS	427.1 > 407	4.21		1.13e3	4.60e3	3.085	bb	4.80	-3.9			
8	8	PFOA	413 > 368.7	4.27		1.27e4	3.89e4	4.088	bd	4.47	-10.5			
9	9	PFOS	499 > 79.9	4.68		1.73e3	5.84e3	3.706	MM	4.36	-12.8			
10	10	PFNA	463 > 418.8	4.61		9.10e3	1.53e4	7.439	bb	4.10	-18.0			
11	11	PFDA	513 > 468.8	4.90		2.20e3	9.53e3	2.881	bb	4.53	-9.4			
12	12	8:2 FTS	527 > 506.9	4.88		6.54e2	3.10e3	2.636	MM	4.41	-11.7			
13	13	13C3-PFBA	216.1 > 171.8	1.77		2.53e4	2.58e4	12.231	bb	12.7	1.9	4.47	0.980	0.0429
14	14	13C3-PFPeA	266 > 221.8	2.71		1.96e4	3.66e4	6.697	bb	12.7	1.8	4.47	0.526	0.0235
15	15	13C3-PFBS	302.0 > 98.8	2.97		8.15e3	3.66e4	2.784	bb	13.4	6.8	4.56	0.209	0.00950
16	16	13C2-PFHxA	315 > 269.8	3.33		9.65e3	3.66e4	3.295	bb	5.03	0.6	4.68	0.655	0.0307
17	17	13C4-PFHpA	367.2 > 321.8	3.84		2.77e4	1.30e4	26.730	bd	14.0	12.3	9.28	1.90	0.177
18	18	18O2-PFHxS	403 > 102.6	3.97		7.74e3	1.30e4	7.463	bb	12.9	3.0	5.10	0.580	0.0298

161031G2_6 Smooth(Mn,1x2)
PFC CS2 16J2707 A ST161031G2-5 PFC CS2 16J2707

F6:MRM of 16 channels,ES-
499 > 79.9
6.907e+004

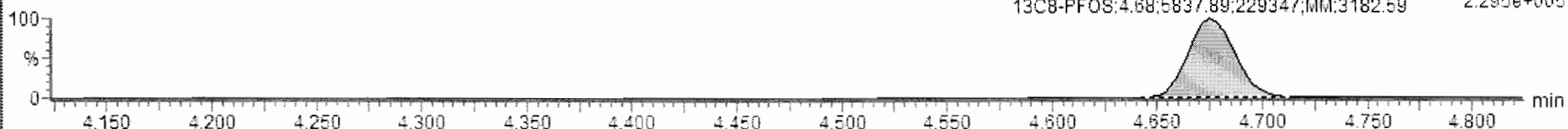
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161031G2_6 Smooth(Mn,1x2)
PFC CS2 16J2707 A ST161031G2-5 PFC CS2 16J2707

F6:MRM of 16 channels,ES-
507.0 > 79.9
2.295e+005

13C8-PFOS:4.68:5837.89:229347:MM:3182.59



Display default range

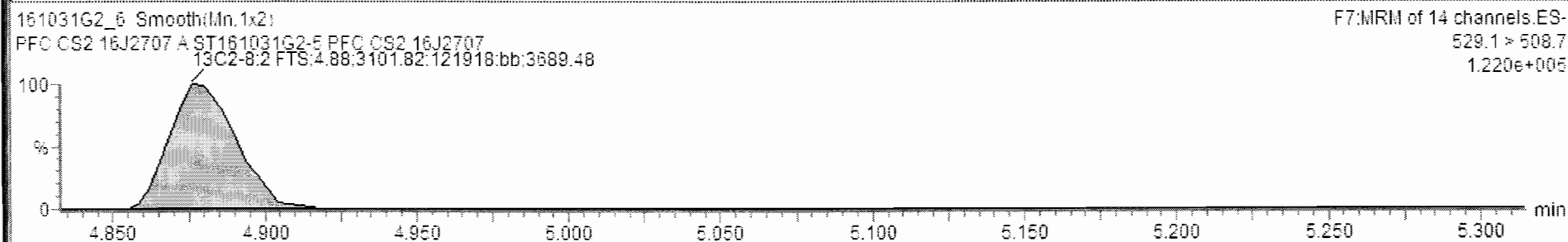
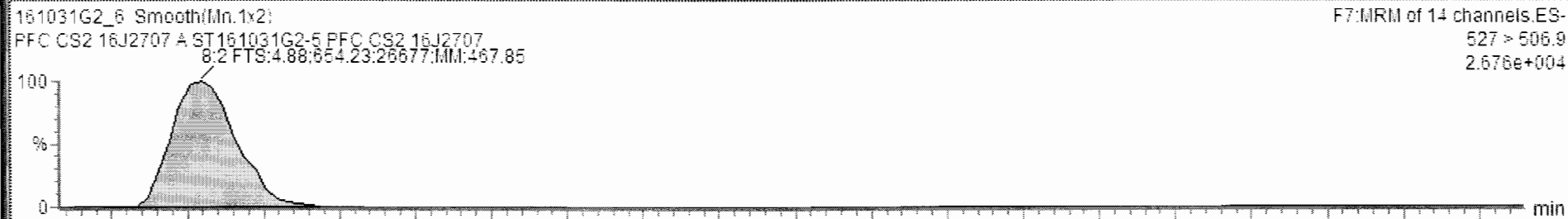
161031G2_6

CAP NUM



161031G2_6 - ST161031G2-5 PFC CS2 16J2707 - PFC CS2 16J2707 A

Name	Trace	Area	Response	RRF	Wt/VoL	R ^T	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	6.14e3	3.037	0.607	1.000	1.77	4.47	89.4	0.0112945	0.9969
2	PFPeA	263.1 > 218.9	5.58e3	3.559	0.712	1.000	2.72	4.39	87.9	0.0326664	0.9990
3	PFBS	299 > 79.7	3.56e3	5.467	1.093	1.000	2.97	4.02	80.3	0.0702377	0.9987
4	PFHxA	313.2 > 268.9	5.10e3	2.642	0.528	1.000	3.23	4.51	90.2	0.0000000	0.9991
5	PFHpA	363 > 318.9	1.32e4	5.947	1.189	1.000	3.84	4.22	84.3	0.0249966	0.9990
6	PFHxS	398.9 > 79.6	4.11e3	6.644	1.329	1.000	3.97	4.52	90.5	0.0165204	0.9996
7	8:2 FTS	427.1 > 407	1.13e3	3.065	0.617	1.000	4.21	4.94	98.8	0.0921423	0.9774
8	PFOA	413 > 368.7	1.27e4	4.086	0.817	1.000	4.27	4.47	89.5	0.0000000	0.9981
9	PFOS	499 > 79.9	1.73e3	3.747	0.749	1.000	4.68	4.41	88.2	0.0639439	0.9954
10	PFNA	463 > 418.8	9.10e3	7.439	1.488	1.000	4.61	4.10	82.0	0.0344292	0.9990
11	PFDA	513 > 468.8	2.20e3	2.881	0.576	1.000	4.90	4.53	90.8	0.0308904	0.9984
12	8:2 FTS	527 > 506.9	6.54e2	2.636	0.527	1.000	4.88	5.01	100.2	0.0300562	0.9941
13	13C3-PFBA	216.1 > 171.8	2.53e4	12.231	0.978	1.000	1.77	12.7	101.9	0.0043822	4.47
14	13C3-PFPeA	266 > 221.8	1.96e4	6.697	0.536	1.000	2.72	12.7	101.8	0.0075877	4.47

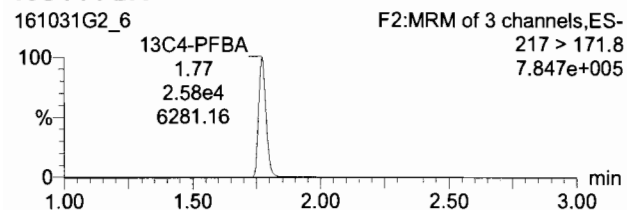


Dataset: Untitled

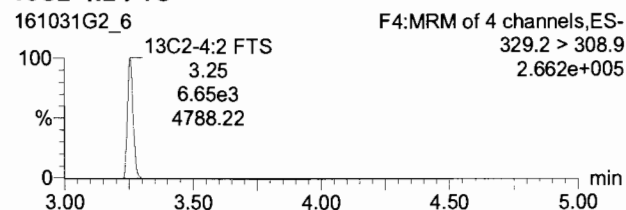
Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_6, Date: 31-Oct-2016, Time: 18:04:20, ID: ST161031G2-5 PFC CS2 16J2707, Description: PFC CS2 16J2707 A

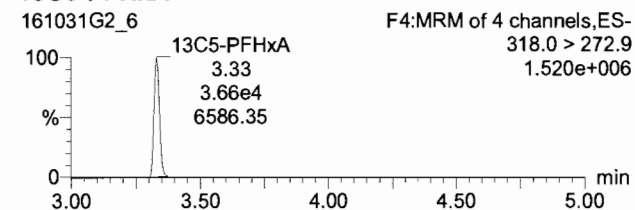
13C4-PFBA



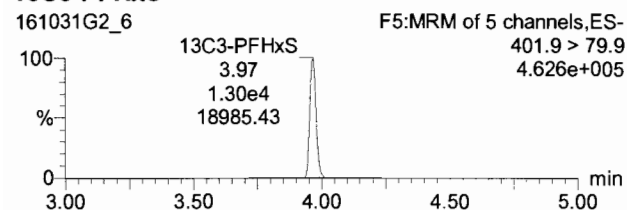
13C2-4:2 FTS



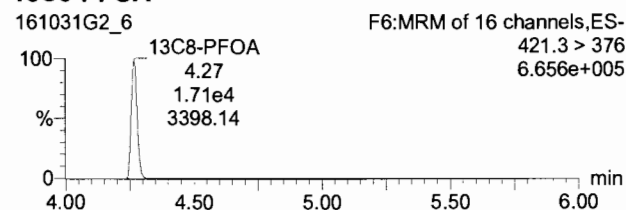
13C5-PFHxA



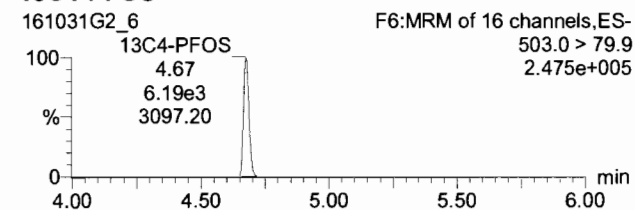
13C3-PFHxS



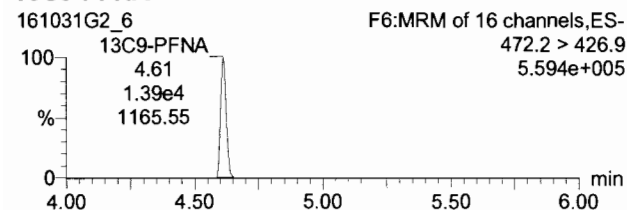
13C8-PFOA



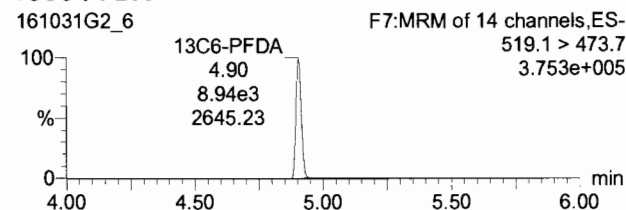
13C4-PFOS



13C9-PFNA



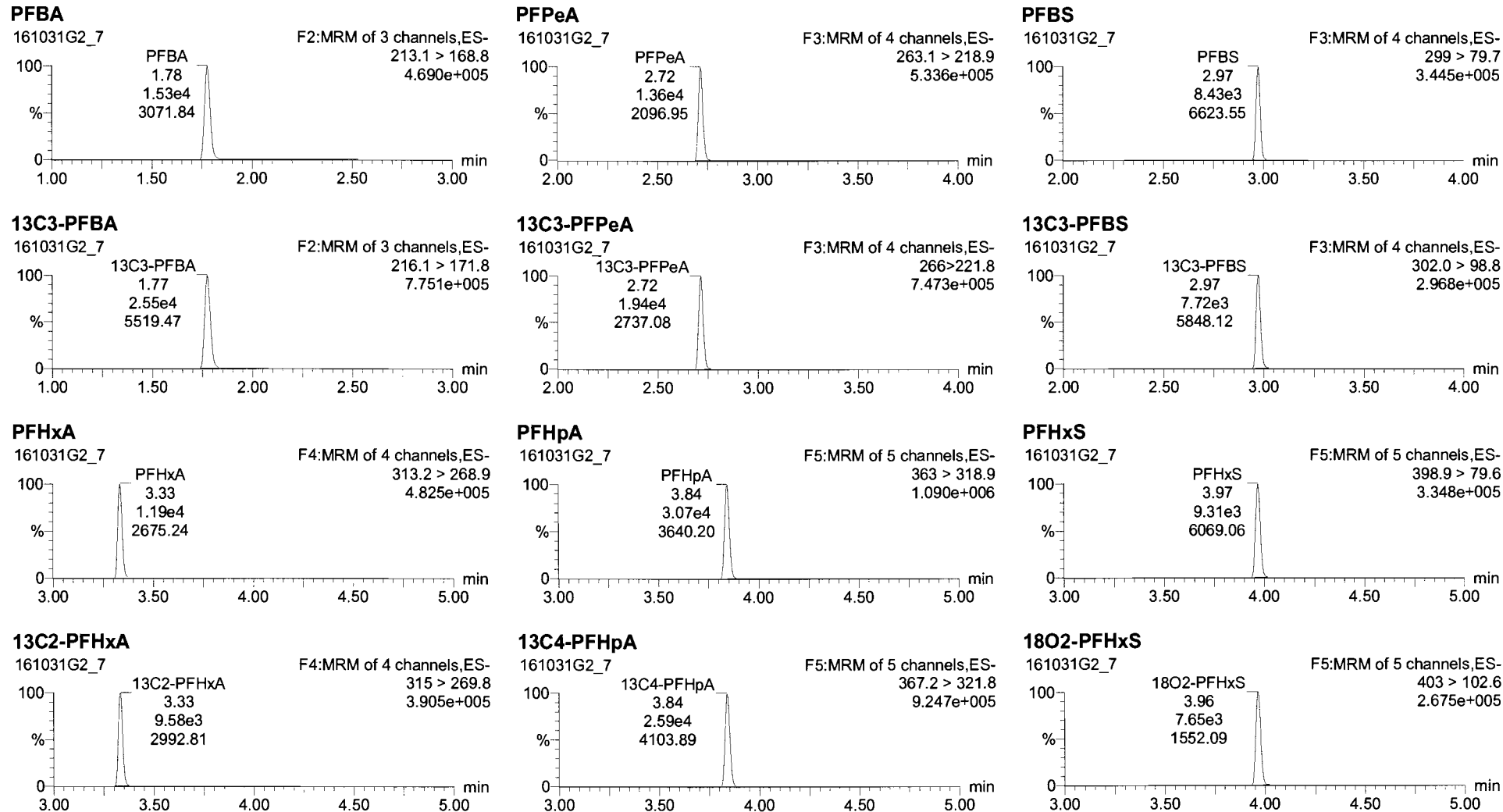
13C6-PFDA



Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_7, Date: 31-Oct-2016, Time: 18:16:58, ID: ST161031G2-6 PFC CS3 16J2708, Description: PFC CS3 16J2708 A

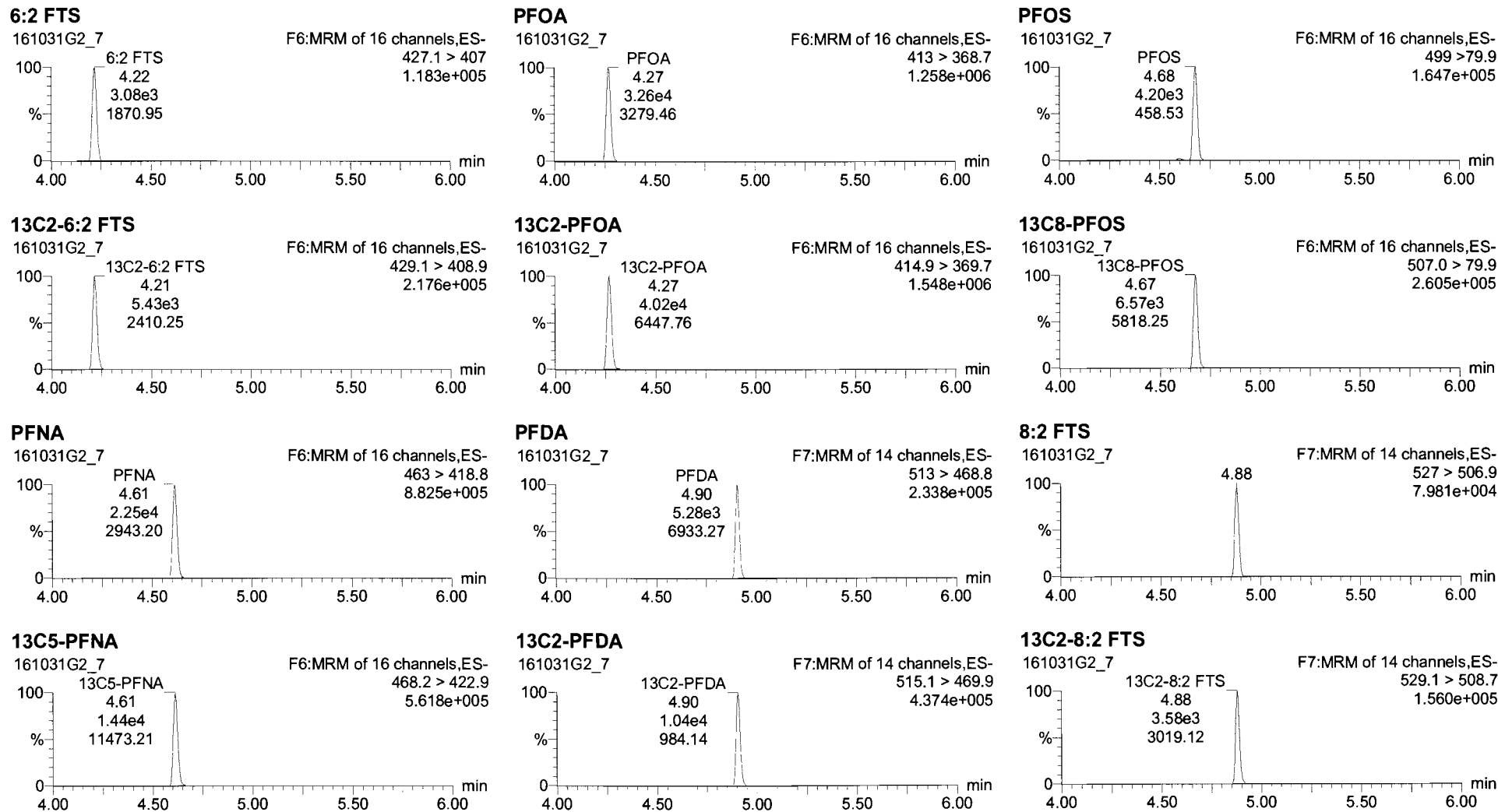


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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

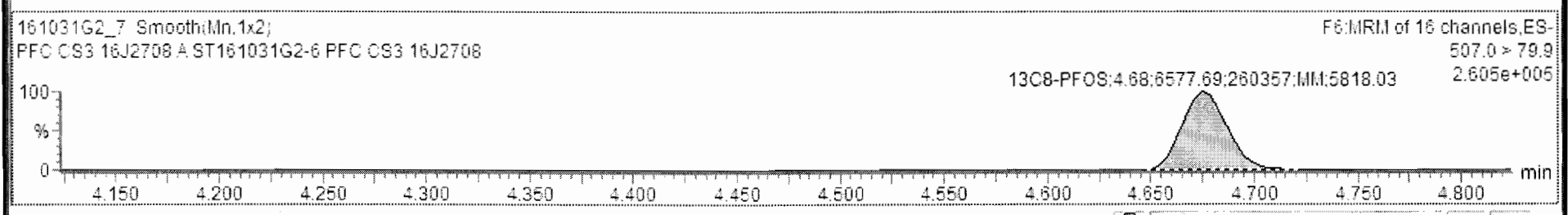
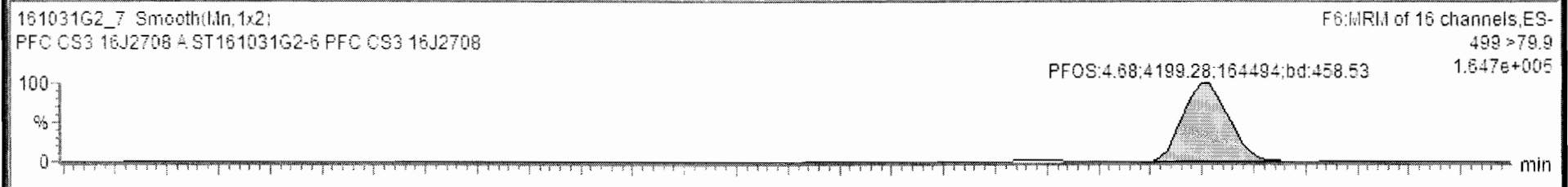
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_7, Date: 31-Oct-2016, Time: 18:16:58, ID: ST161031G2-6 PFC CS3 16J2708, Description: PFC CS3 16J2708 A



161031G2_7 - ST161031G2-6 PFC CS3 16J2708 - PFC CS3 16J2708 A

#	Name	Trace	RT	RA	y/n	Area	IS Area	Response	Primary Flags	Conc.	%Dev	%RSD	RRF M...	RRF SD
1	PFBA	213.1 > 168.8	1.78			1.53e4	2.55e4	7.514	bb	11.0	10.5			
2	PFPeA	263.1 > 218.9	2.71			1.38e4	1.94e4	8.753	bb	10.8	7.8			
3	PFBS	289 > 79.7	2.97			8.43e3	7.72e3	13.634	bd	9.92	-0.8			
4	PFHxA	313.2 > 268.9	3.33			1.19e4	9.58e3	6.218	bb	10.6	8.4			
5	PFHpA	363 > 318.9	3.84			3.07e4	2.59e4	14.847	bb	10.5	4.9			
6	PFHxS	398.9 > 79.6	3.97			9.31e3	7.65e3	15.211	bb	10.3	3.4			
7	8:2 FTS	427.1 > 407	4.22			3.08e3	5.43e3	7.092	bb	11.3	12.6			
8	PFOA	413 > 368.7	4.27			3.28e4	4.02e4	10.140	bb	11.1	11.3			
9	PFOS	499 > 79.9	4.68			4.20e3	6.58e3	7.980	bd	9.33	-6.7			
10	PFNA	463 > 418.8	4.61			2.25e4	1.44e4	19.569	bb	10.7	7.3			
11	PFDA	513 > 468.8	4.90			5.28e3	1.04e4	6.356	bb	9.96	-0.4			
12	8:2 FTS	527 > 508.9	4.88			1.88e3	3.58e3	6.481	MM	11.0	9.7			
13	13C3-PFBA	216.1 > 171.8	1.77			2.55e4	2.63e4	12.089	bb	12.6	0.7	4.47	0.960	0.0429
14	13C3-PFPeA	268 > 221.8	2.71			1.94e4	3.54e4	6.848	bb	13.0	4.1	4.47	0.526	0.0235
15	13C3-PFBS	302.0 > 98.8	2.97			7.72e3	3.54e4	2.725	bb	13.1	4.6	4.56	0.209	0.00950
16	13C2-PFHxA	315 > 269.8	3.33			9.58e3	3.54e4	3.381	bb	5.16	3.2	4.68	0.655	0.0307
17	13C4-PFHpA	367.2 > 321.8	3.84			2.59e4	1.29e4	25.067	bb	13.2	5.4	9.28	1.90	0.177
18	18O2-PFHxS	403 > 102.6	3.96			7.65e3	1.79e4	7.474	bb	12.8	2.5	5.10	0.580	0.0296





Next Sample 031G2_7 - ST161031G2-6 PFC CS3 16J2708 - PFC CS3 16J2708 A

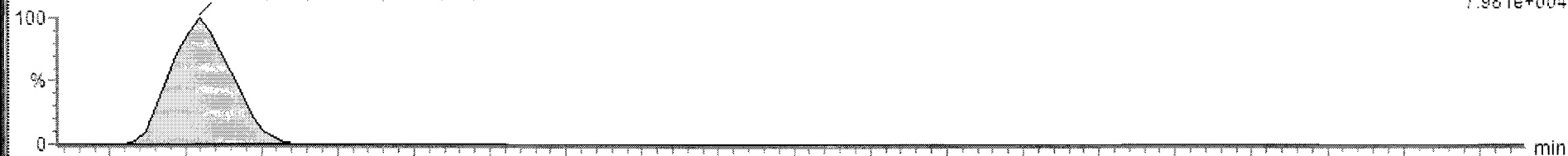
Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	1.53e4	7.514	0.751	1.78	11.0	110.5	0.0123441		0.9989
2	PFPeA	263.1 > 218.9	1.36e4	8.753	0.875	2.72	10.8	107.6	0.0251648		0.9990
3	PFBS	299 > 79.7	8.43e3	13.634	1.363	2.97	9.92	99.2	0.0698121		0.9987
4	PFHxA	313.2 > 268.9	1.19e4	6.218	0.622	3.33	10.6	106.4	0.0000000		0.9991
5	PFHpA	363 > 318.9	3.07e4	14.847	1.485	3.84	10.5	104.9	0.0282737		0.9990
6	PFHxS	398.9 > 79.6	9.31e3	15.211	1.521	3.97	10.3	103.4	0.0171734		0.9996
7	8:2 FTS	427.1 > 407	3.08e3	7.052	0.709	4.22	11.8	115.7	0.0115069		0.9774
8	PFOA	413 > 368.7	3.26e4	10.140	1.014	4.27	11.1	111.3	0.0000000		0.9981
9	PFOS	499 > 79.9	4.20e3	7.990	0.799	4.68	9.33	93.3	0.1066934		0.9954
10	PFNA	463 > 418.8	2.25e4	19.589	1.957	4.61	10.7	107.3	0.0421052		0.9990
11	PFDA	513 > 468.8	5.28e3	6.356	0.636	4.90	9.96	99.6	0.0300579		0.9984
12	8:2 FTS	527 > 506.9	1.86e3	6.481	0.648	4.88	10.1	101.5	0.0000000		0.9939
13	13C3-PFBA	216.1 > 171.8	2.55e4	12.089	0.967	1.77	12.6	100.7	0.0055385	4.47	
14	13C3-PFPeA	268 > 221.8	1.94e4	6.848	0.548	2.72	13.0	104.1	0.0112939	4.47	

161031G2_7 Smooth(I,n,1x2)

PFC CS3 16J2708 A ST161031G2-6 PFC CS3 16J2708
8:2 FTS:4.88:1856.76:79761:MM:1739.95

F7:MRM of 14 channels,ES-

527 > 506.9
7.981e+004

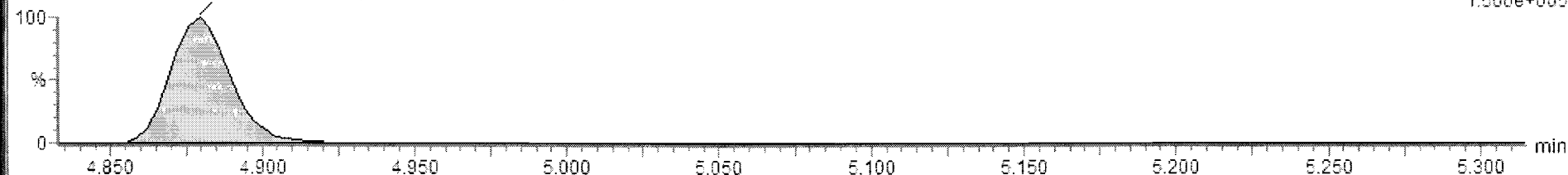


161031G2_7 Smooth(I,n,1x2)

PFC CS3 16J2708 A ST161031G2-6 PFC CS3 16J2708
13C2-8:2 FTS:4.88:3581.35:155879:bb:3019.12

F7:MRM of 14 channels,ES-

529.1 > 508.7
1.560e+005



Display next sample

161031G2_7

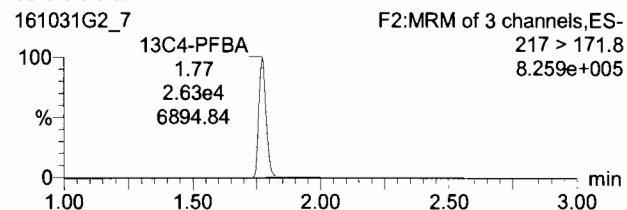
CAP NUM

Dataset: Untitled

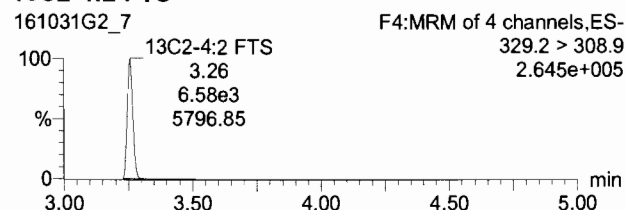
Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_7, Date: 31-Oct-2016, Time: 18:16:58, ID: ST161031G2-6 PFC CS3 16J2708, Description: PFC CS3 16J2708 A

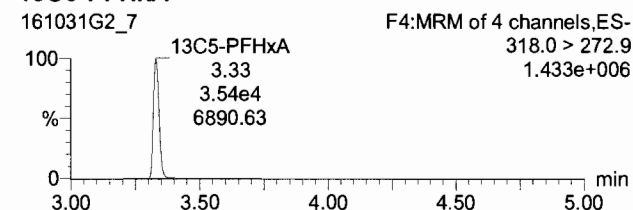
13C4-PFBA



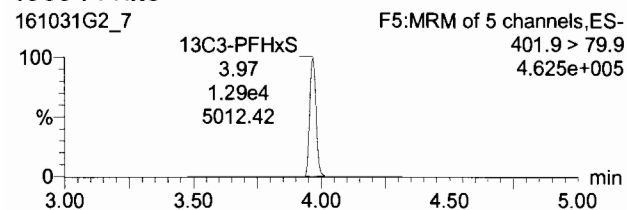
13C2-4:2 FTS



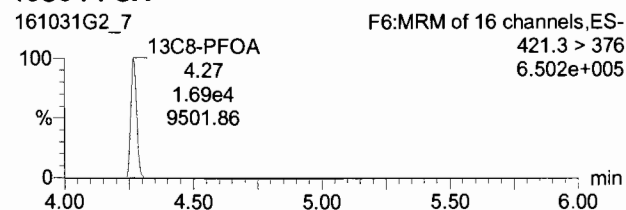
13C5-PFHxA



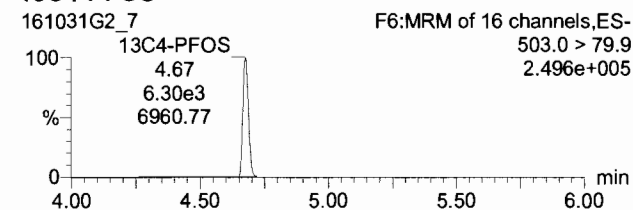
13C3-PFHxS



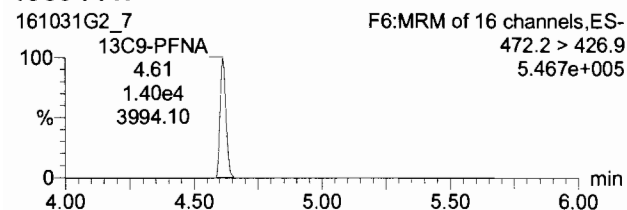
13C8-PFOA



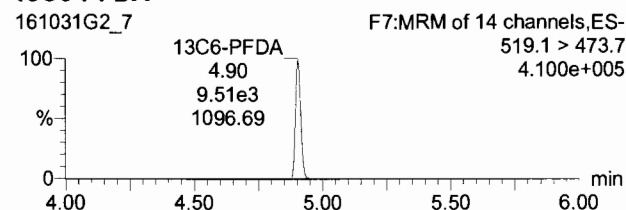
13C4-PFOS



13C9-PFNA



13C6-PFDA

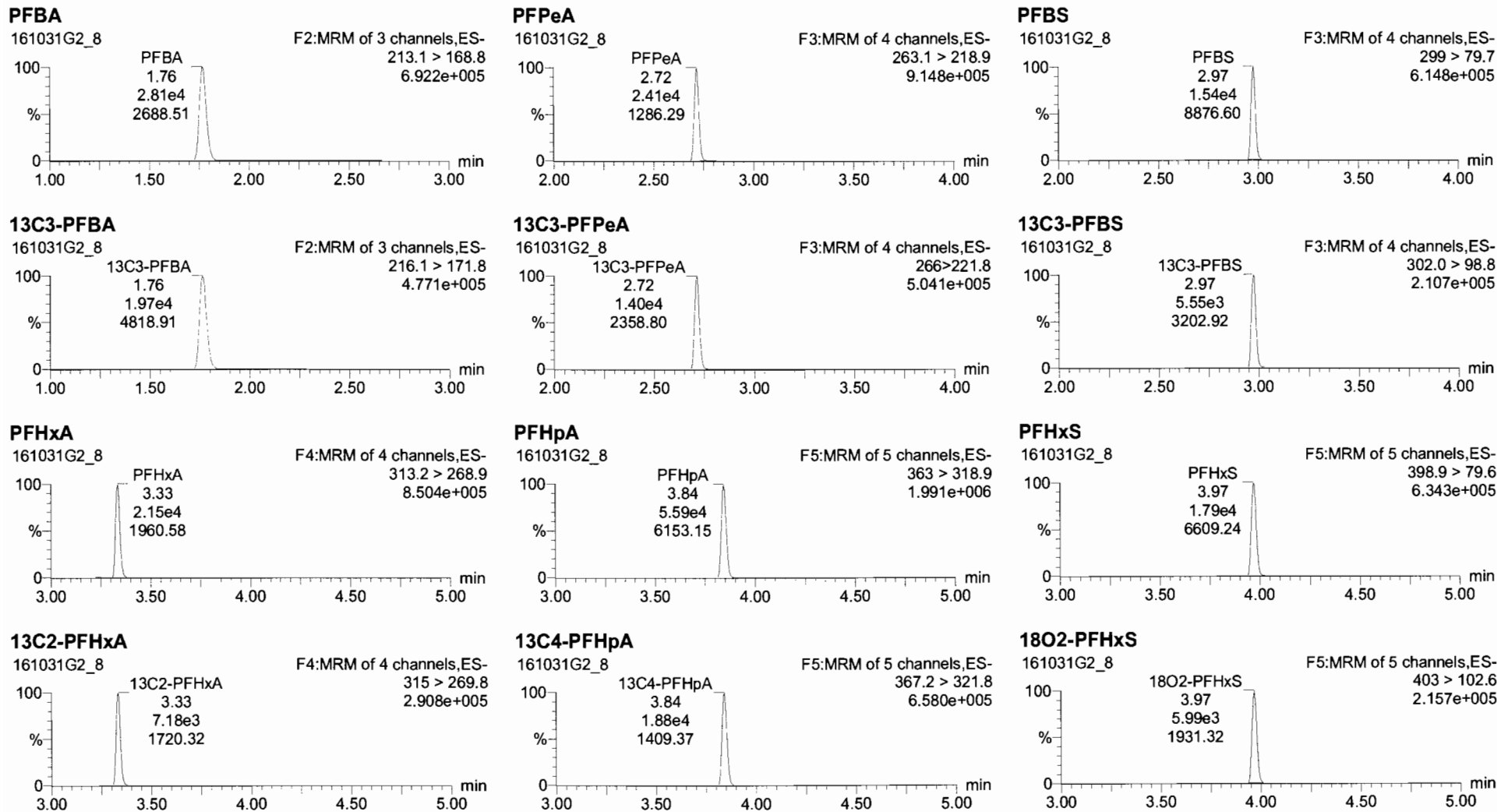


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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_8, Date: 31-Oct-2016, Time: 18:29:37, ID: ST161031G2-7 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A



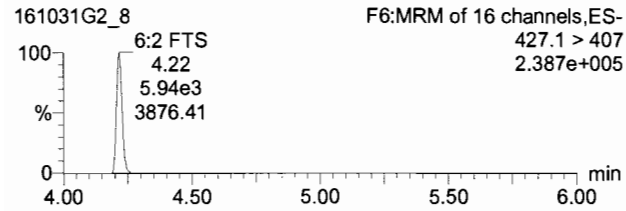
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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

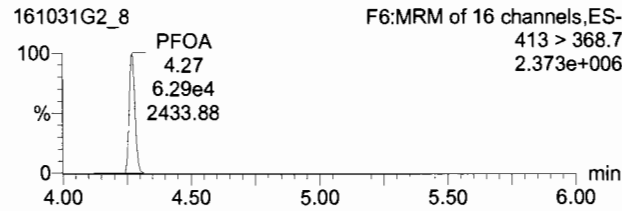
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_8, Date: 31-Oct-2016, Time: 18:29:37, ID: ST161031G2-7 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

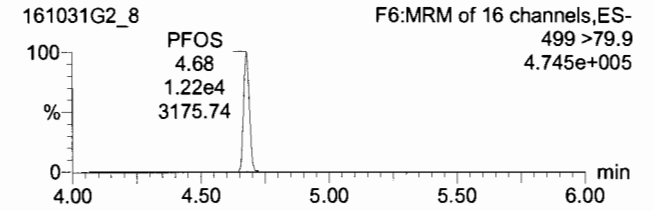
6:2 FTS



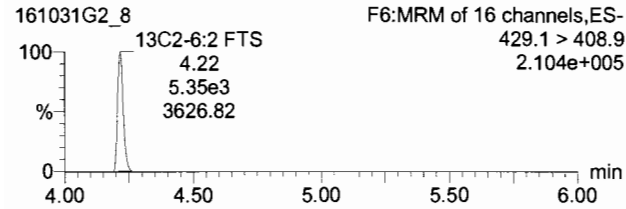
PFOA



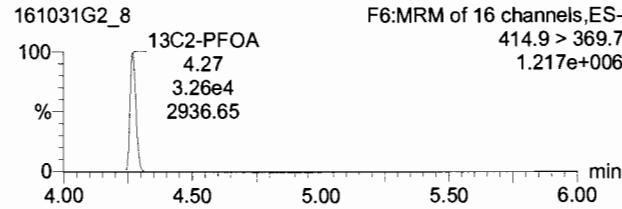
PFOS



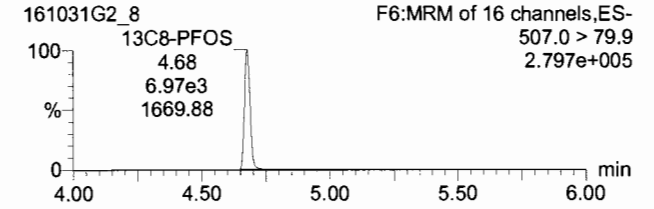
13C2-6:2 FTS



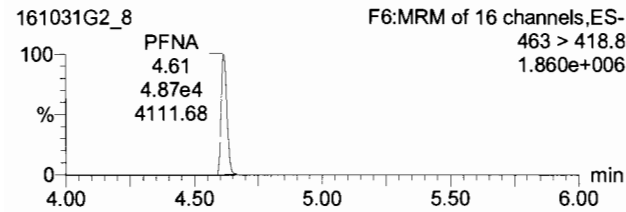
13C2-PFOA



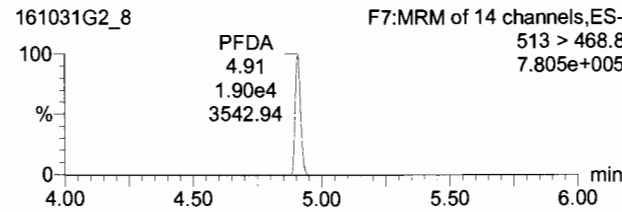
13C8-PFOS



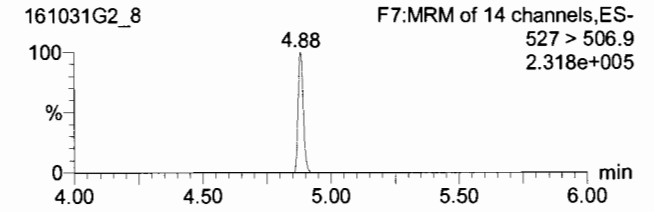
PFNA



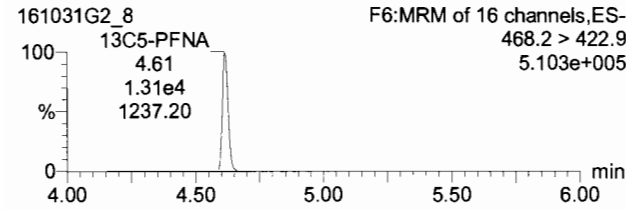
PFDA



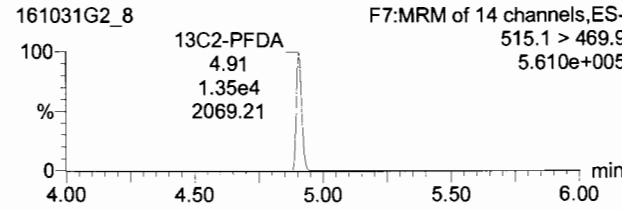
8:2 FTS



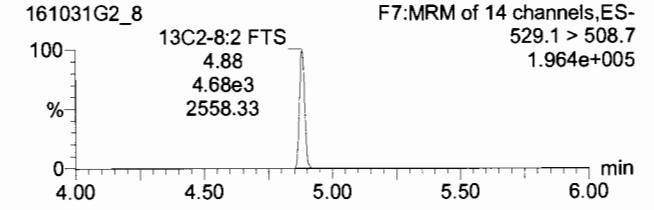
13C5-PFNA



13C2-PFDA

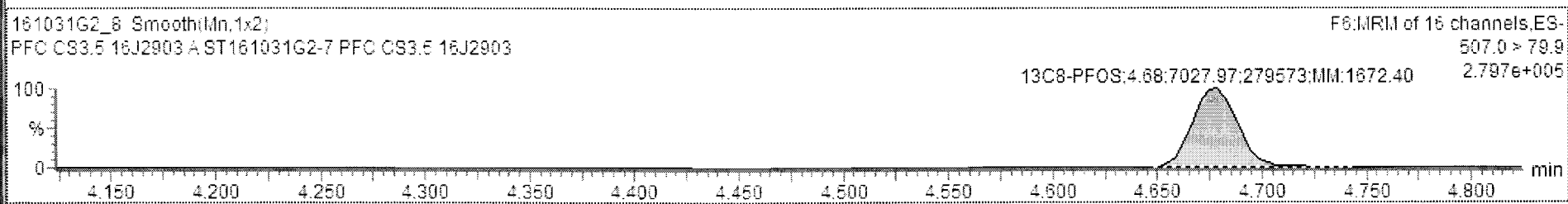
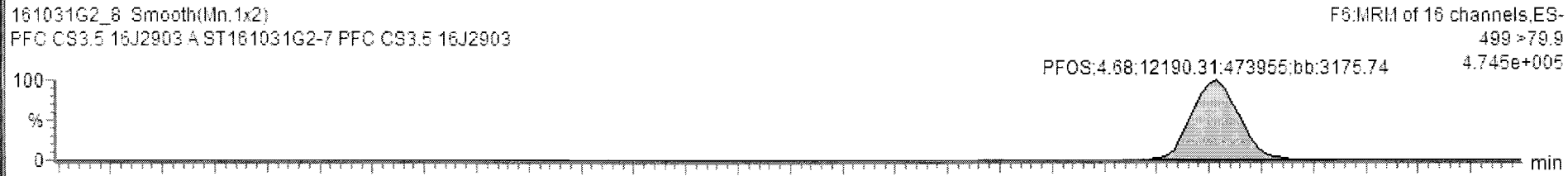


13C2-8:2 FTS



161031G2_8 - ST161031G2-7 PFC CS3.5 16J2903 A

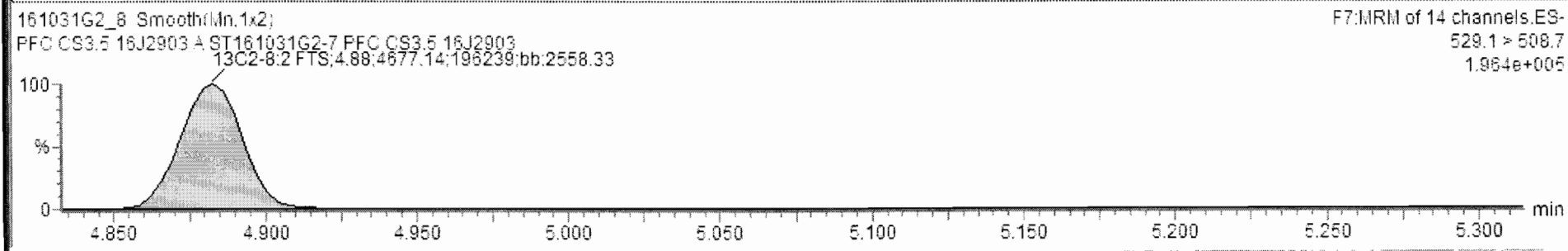
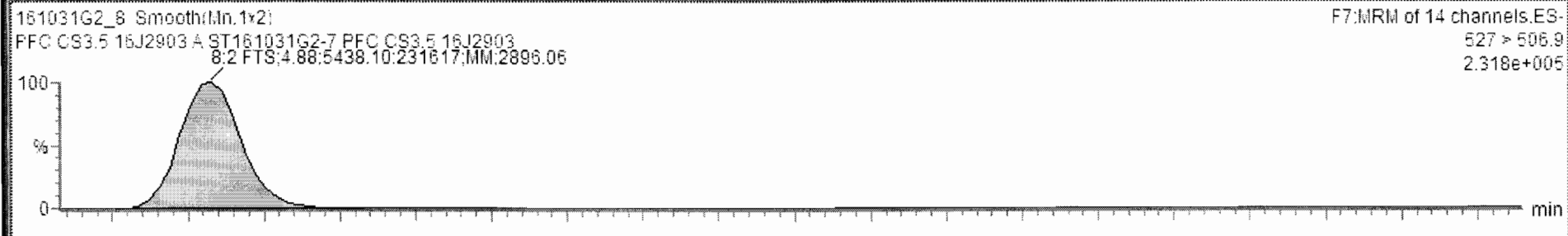
#	Name	Trace	RT	RA	y/n	Area	IS Area	Response	Primary Flags	Conc.	%Dev	%RSD	RRF M...	RRF SD
1	PFBA	213.1 > 168.8	1.76			2.81e4	1.97e4	17.834	bb	28.2	4.9			
2	PFPeA	263.1 > 218.9	2.71			2.41e4	1.40e4	21.539	bb	26.5	5.9			
3	PFBS	299 > 79.7	2.97			1.54e4	5.55e3	34.549	bb	25.0	0.1			
4	PFHxA	313.2 > 268.9	3.33			2.15e4	7.18e3	14.933	bb	25.6	2.3			
5	PFHpA	363 > 318.9	3.84			5.59e4	1.88e4	37.074	bb	26.2	4.7			
6	PFHxS	398.9 > 79.6	3.97			1.79e4	5.99e3	37.398	bb	25.4	1.6			
7	6:2 FTS	427.1 > 407	4.22			5.94e3	5.35e3	13.881	bb	23.0	-8.0			
8	PFOA	413 > 368.7	4.27			6.29e4	3.28e4	24.084	bb	26.5	5.8			
9	PFOS	499 > 79.9	4.68			1.22e4	7.03e3	21.682	bb	25.3	1.0			
10	PFNA	463 > 418.8	4.61			4.67e4	1.31e4	46.384	bb	25.4	1.5			
11	PFDA	513 > 468.8	4.91			1.90e4	1.35e4	17.582	bb	27.5	10.0			
12	8:2 FTS	527 > 508.9	4.88			5.44e3	4.68e3	14.534	MM	25.2	1.0			
13	13C3-PFBA	216.1 > 171.8	1.76			1.97e4	2.06e4	11.924	bb	12.4	-0.8	4.47	0.980	0.0429
14	13C3-PFPeA	266 > 221.8	2.71			1.40e4	2.71e4	6.467	bb	12.3	-1.7	4.47	0.528	0.0235
15	13C3-PFBS	302.0 > 98.8	2.97			5.55e3	2.71e4	2.563	bd	12.3	-1.7	4.58	0.209	0.00950
16	13C2-PFHxA	315 > 269.8	3.33			7.18e3	2.71e4	3.315	bd	5.08	1.2	4.68	0.655	-0.0307
17	13C4-PFHpA	367.2 > 321.8	3.84			1.88e4	1.03e4	22.938	bd	12.0	-3.6	9.28	1.90	0.177
18	18O2-PFHxS	403 > 102.6	3.97			5.99e3	1.03e4	7.298	bb	12.6	0.7	5.10	0.580	0.0298





161031G2_8 - ST161031G2-7 PFC CS3.5 16J2903 - PFC CS3.5 16J2903 A

Name	Trace	Area	Response	RRF	Wt/Vol	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	2.81e4	17.834	0.713	1.000	1.76	26.2	104.9	0.0261199	0.9989
2	PFPeA	263.1 > 218.9	2.41e4	21.539	0.862	1.000	2.72	26.5	105.9	0.0762131	0.9990
3	PFBS	299 > 79.7	1.54e4	34.549	1.382	1.000	2.97	25.0	100.1	0.0732684	0.9987
4	PFHxA	313.2 > 268.9	2.15e4	14.933	0.597	1.000	3.33	25.6	102.3	0.0125455	0.9991
5	PFHpA	363 > 318.9	5.59e4	37.074	1.483	1.000	3.84	26.2	104.7	0.0319603	0.9990
6	PFHxS	398.9 > 79.8	1.79e4	37.398	1.496	1.000	3.97	25.4	101.6	0.0222532	0.9996
7	6:2 FTS	427.1 > 407	5.94e3	13.861	0.554	1.000	4.22	23.4	93.7	0.0116295	0.9774
8	PFOA	413 > 368.7	6.29e4	24.084	0.963	1.000	4.27	26.5	105.8	0.0110412	0.9981
9	PFOS	499 > 79.9	1.22e4	21.849	0.874	1.000	4.68	25.4	101.7	0.0760944	0.9954
10	PFNA	463 > 418.8	4.87e4	46.364	1.855	1.000	4.61	25.4	101.5	0.0481377	0.9990
11	PFDA	513 > 468.8	1.90e4	17.582	0.703	1.000	4.91	27.5	110.0	0.0454465	0.9984
12	6:2 FTS	527 > 506.9	5.44e3	14.534	0.581	1.000	4.88	24.8	99.1	0.0332136	0.9953
13	13C3-PFBA	216.1 > 171.5	1.97e4	11.924	0.954	1.000	1.76	12.4	99.4	0.0084962	4.47
14	13C3-PFPeA	266 > 221.8	1.40e4	6.467	0.517	1.000	2.72	12.3	96.3	0.0117632	4.47



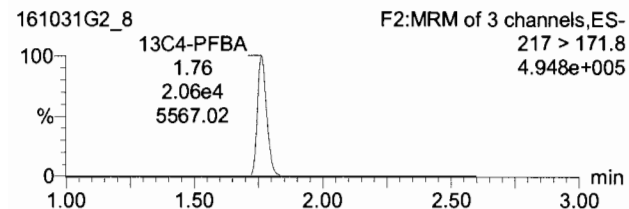
Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

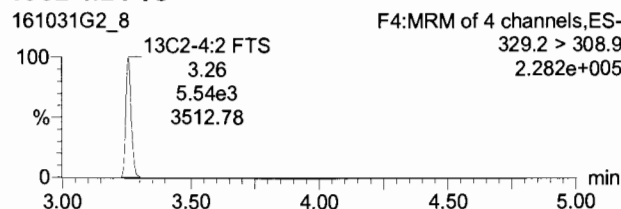
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_8, Date: 31-Oct-2016, Time: 18:29:37, ID: ST161031G2-7 PFC CS3.5 16J2903, Description: PFC CS3.5 16J2903 A

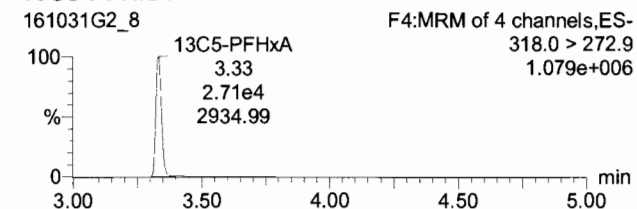
13C4-PFBA



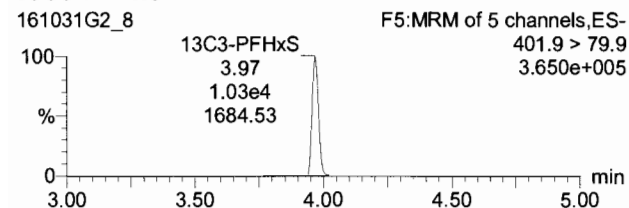
13C2-4:2 FTS



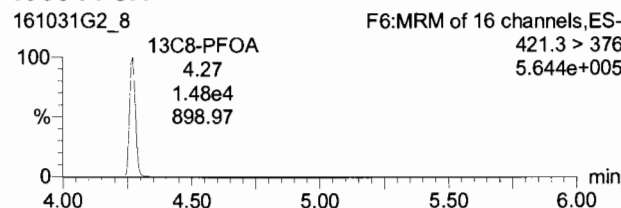
13C5-PFHxA



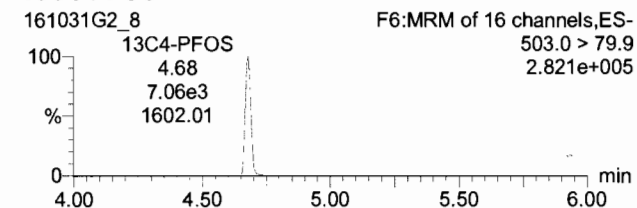
13C3-PFHxS



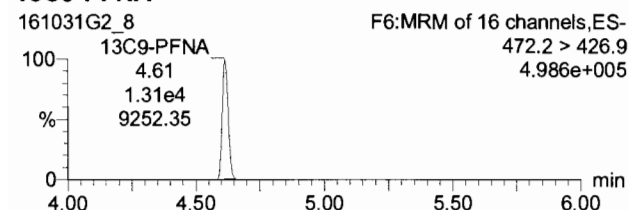
13C8-PFOA



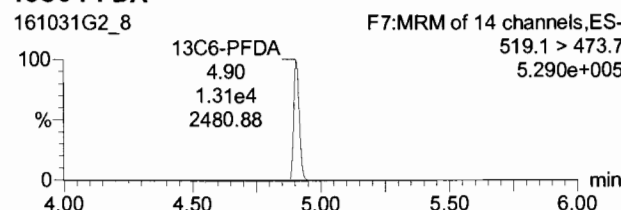
13C4-PFOS



13C9-PFNA



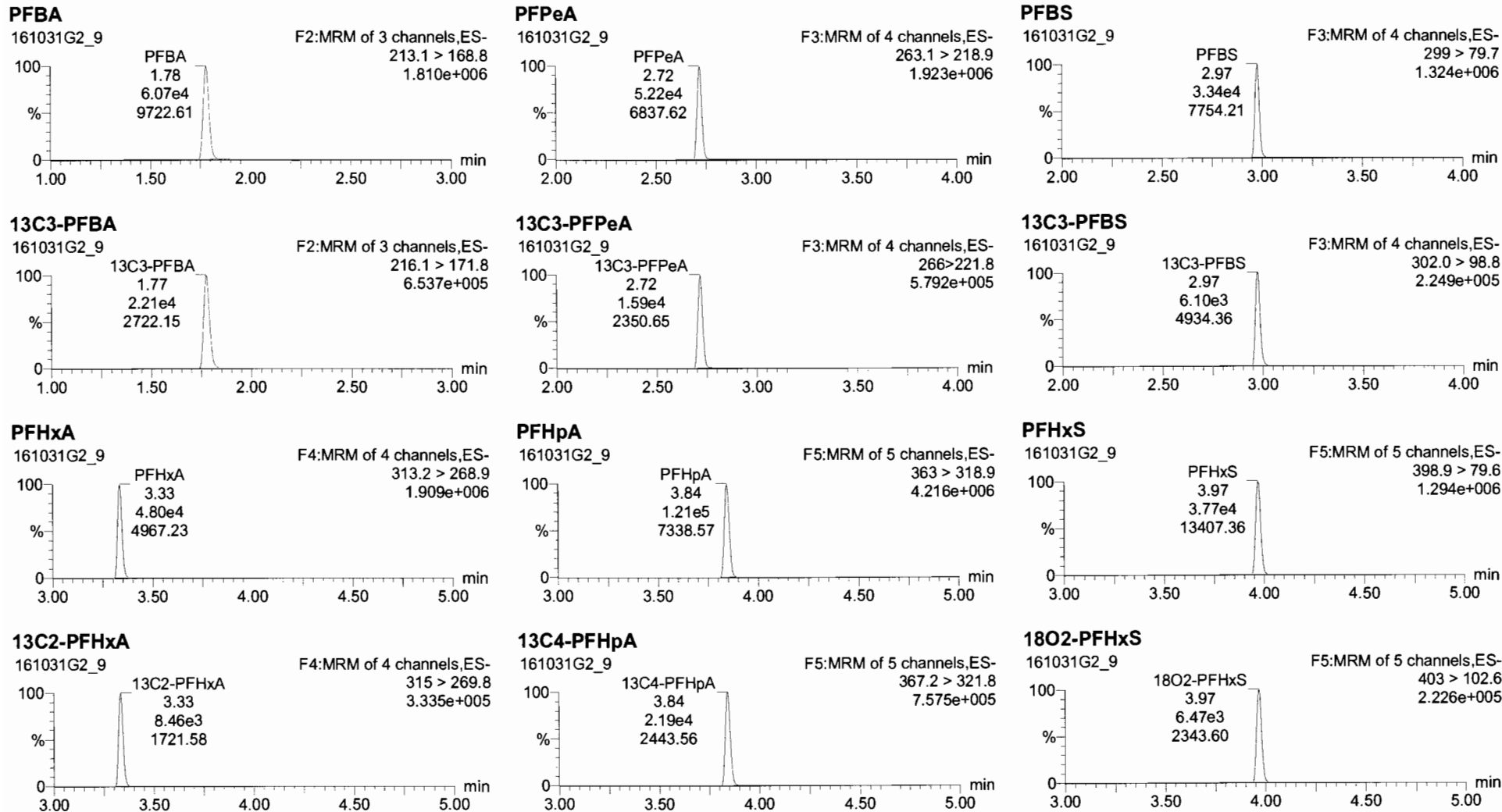
13C6-PFDA



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Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_9, Date: 31-Oct-2016, Time: 18:42:16, ID: ST161031G2-8 PFC CS4 16J2709, Description: PFC CS4 16J2709 A



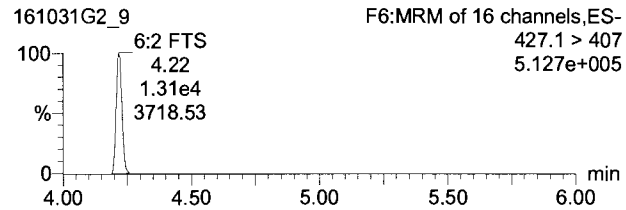
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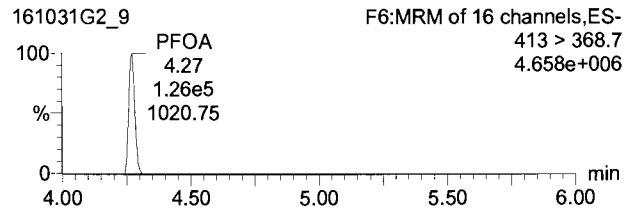
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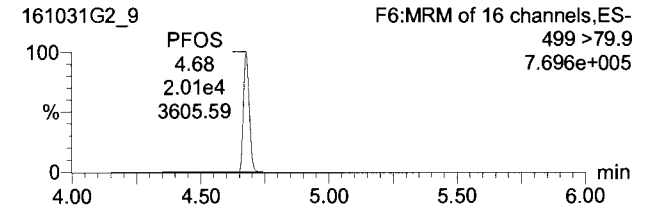
6:2 FTS



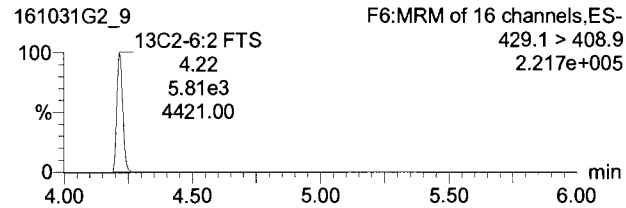
PFOA



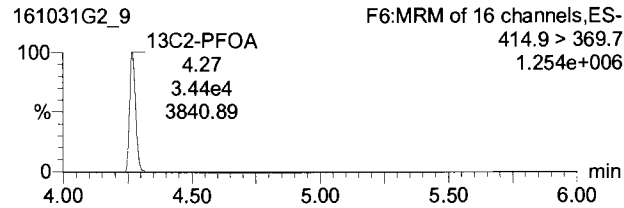
PFOS



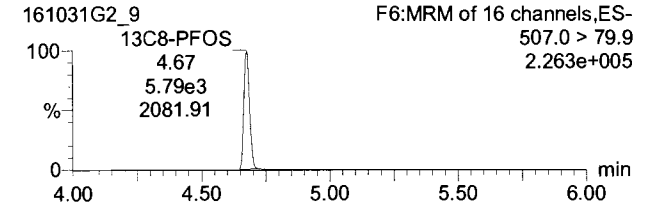
13C2-6:2 FTS



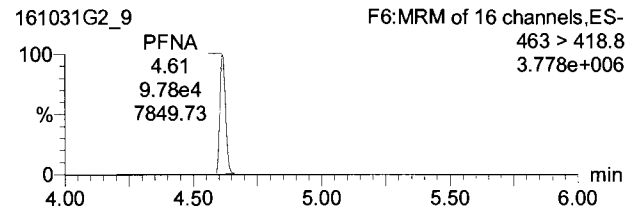
13C2-PFOA



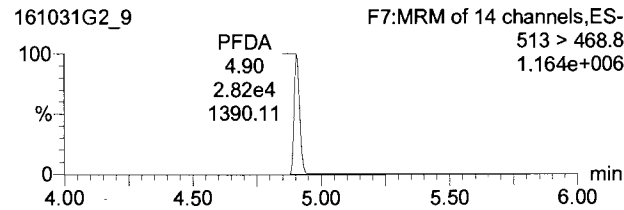
13C8-PFOS



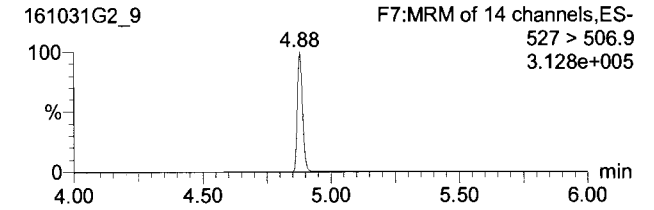
PFNA



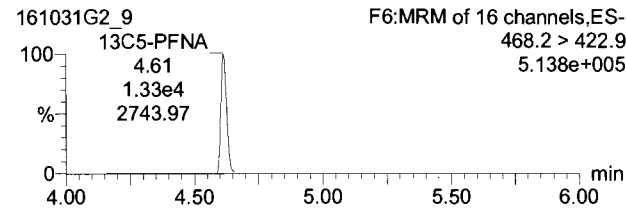
PFDA



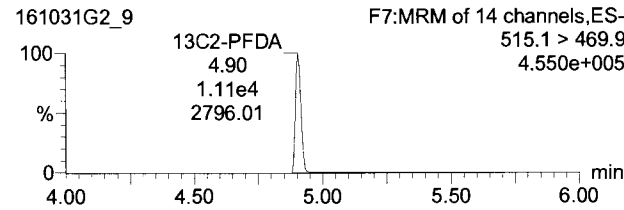
8:2 FTS



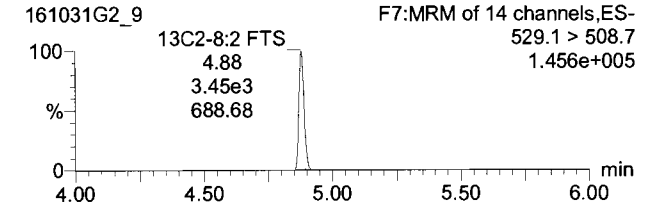
13C5-PFNA



13C2-PFDA

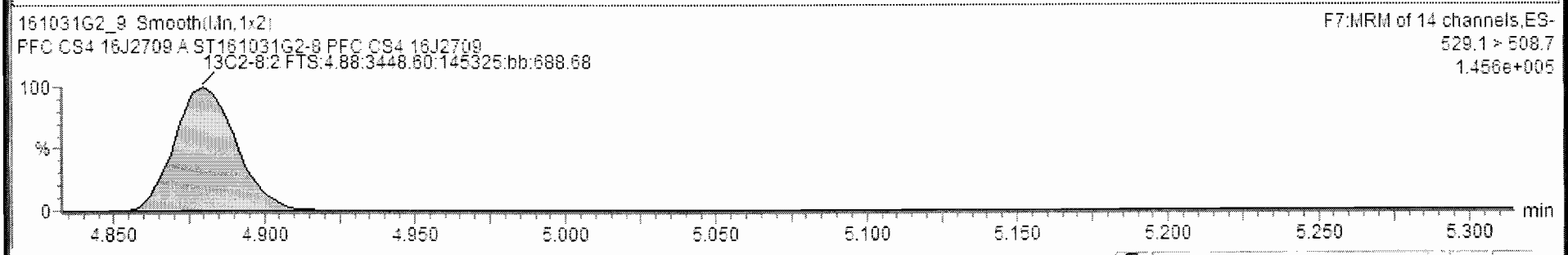
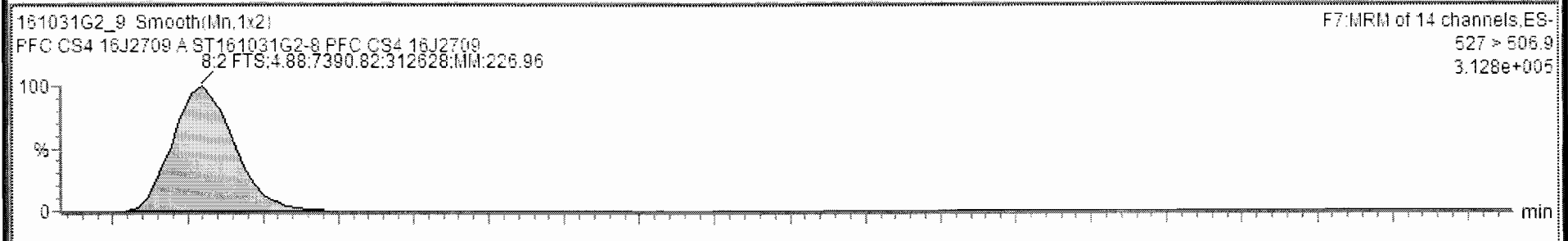


13C2-8:2 FTS



161031G2_9 - ST161031G2-8 PFC CS4 16J2709 - PFC CS4 16J2709 A

Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D.
1	PFBA	213.1 > 168.8	6.07e4	34.312	0.666	1.78	50.4	100.9	0.0163735		0.9989
2	PFPeA	263.1 > 218.9	5.22e4	41.152	0.823	1.000	50.6	101.2	0.0407550		0.9990
3	PFBS	299 > 79.7	3.34e4	68.441	1.369	1.000	49.5	99.0	0.0829823		0.9987
4	PFHxA	313.2 > 268.9	4.80e4	28.373	0.567	1.000	48.6	97.2	0.0052980		0.9991
5	PFHpA	363 > 318.9	1.21e5	68.812	1.376	1.000	48.6	97.1	0.0378386		0.9990
6	PFHxS	398.9 > 79.6	3.77e4	72.772	1.455	1.000	49.4	98.8	0.0220031		0.9996
7	6:2 FTS	427.1 > 407	1.31e4	28.232	0.565	1.000	52.2	104.4	0.0278686		0.9774
8	PFOA	413 > 368.7	1.26e5	45.912	0.918	1.000	50.5	100.9	0.1083692		0.9981
9	PFOS	499 > 79.9	2.01e4	43.365	0.867	1.000	50.4	100.8	0.0910455		0.9954
10	PFNA	463 > 418.8	9.78e4	91.633	1.839	1.000	50.1	100.3	0.0490064		0.9990
11	PFDA	513 > 468.8	2.82e4	31.831	0.637	1.000	49.8	99.5	0.1161658		0.9984
12	8:2 FTS	527 > 506.9	7.39e3	26.789	0.536	1.000	49.8	99.6	0.4983354		0.9975
13	13C3-PFBA	216.1 > 171.8	2.21e4	12.665	1.013	1.000	13.2	105.5	0.0122161	4.47	
14	13C3-PFPeA	268 > 221.8	1.59e4	6.528	0.522	1.000	12.4	99.2	0.0124278	4.47	



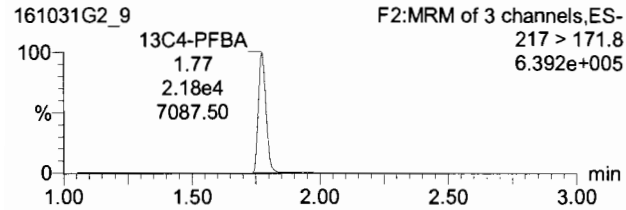
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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

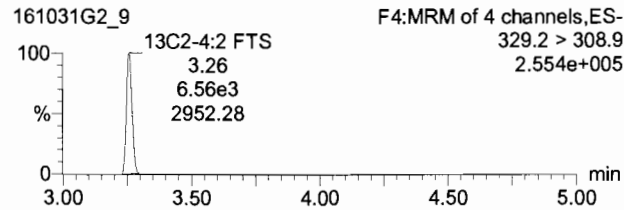
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_9, Date: 31-Oct-2016, Time: 18:42:16, ID: ST161031G2-8 PFC CS4 16J2709, Description: PFC CS4 16J2709 A

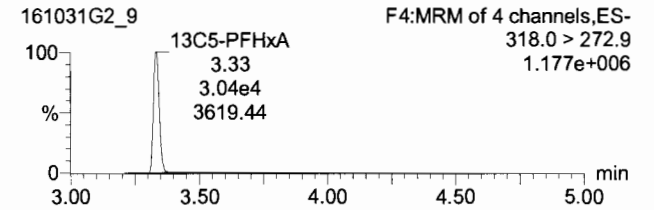
13C4-PFBA



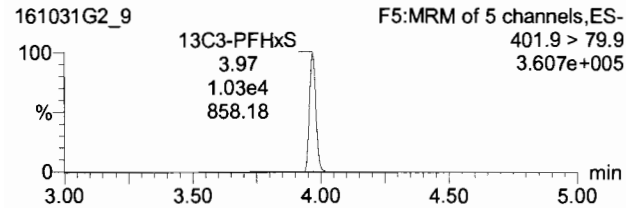
13C2-4:2 FTS



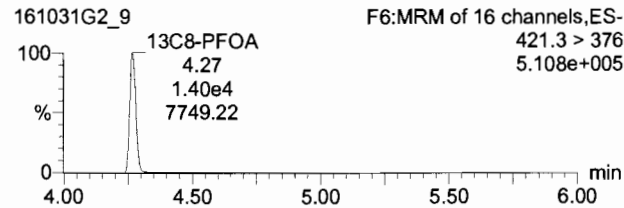
13C5-PFHxA



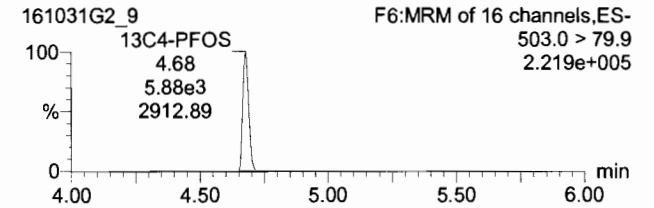
13C3-PFHxS



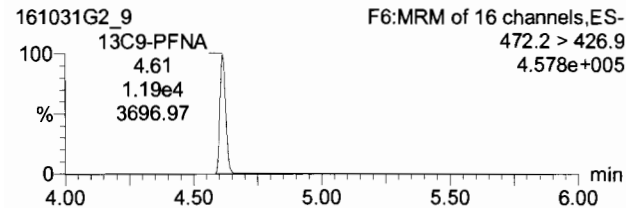
13C8-PFOA



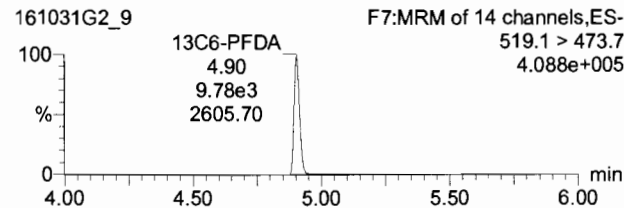
13C4-PFOS



13C9-PFNA



13C6-PFDA



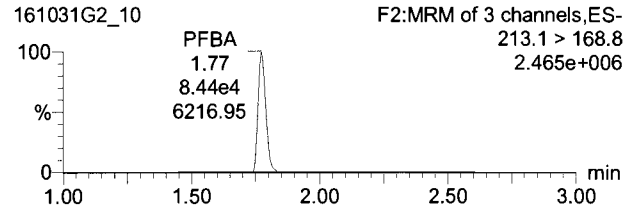
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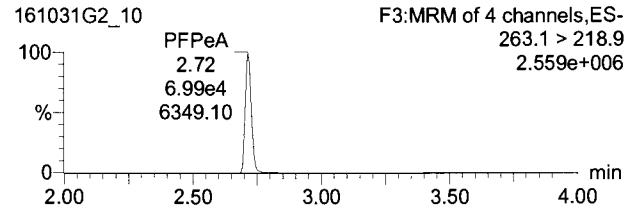
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Name: 161031G2_10, Date: 31-Oct-2016, Time: 18:54:56, ID: ST161031G2-9 PFC CS4.5 16J2710, Description: PFC CS4.5 16J2710 A

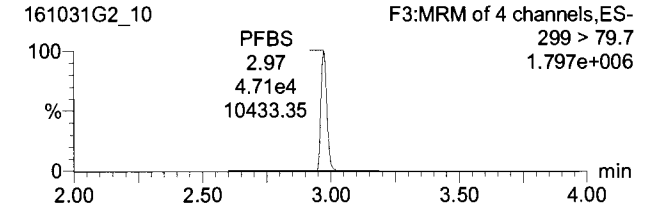
PFBA



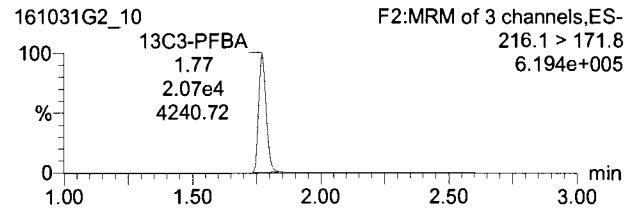
PFPeA



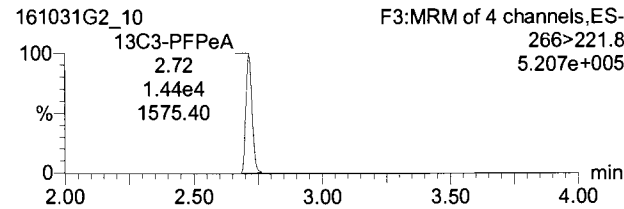
PFBS



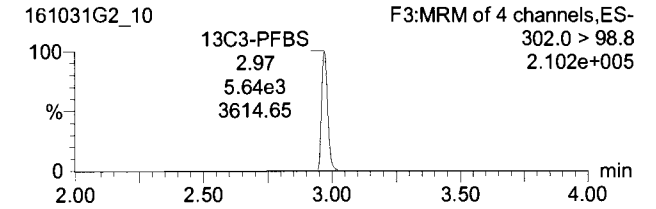
13C3-PFBA



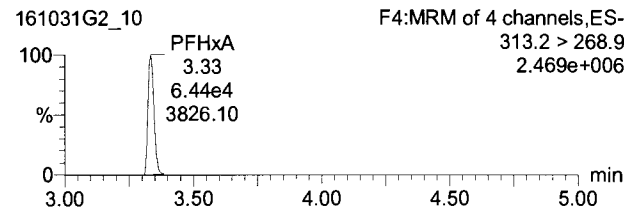
13C3-PFPeA



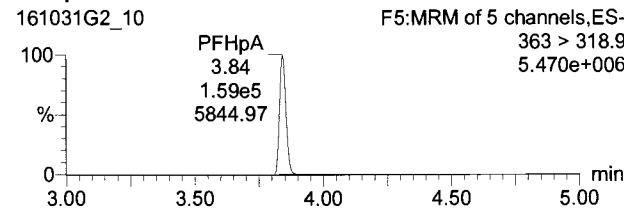
13C3-PFBS



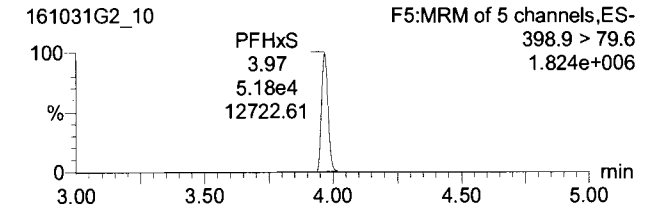
PFHxA



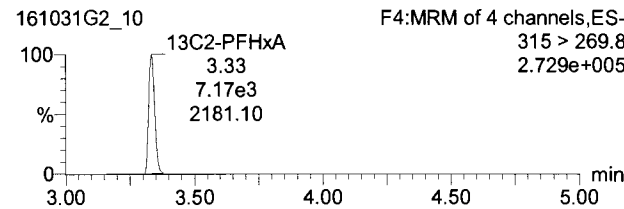
PFHpA



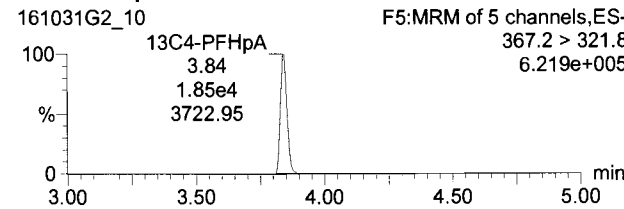
PFHxS



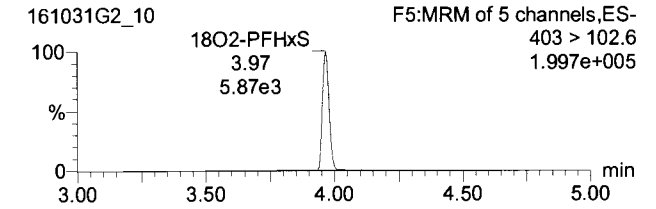
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



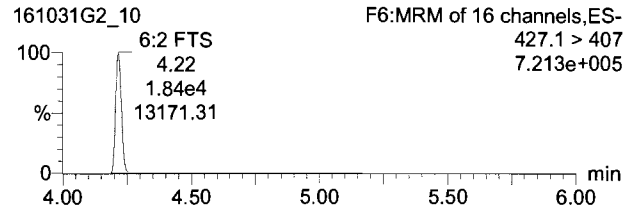
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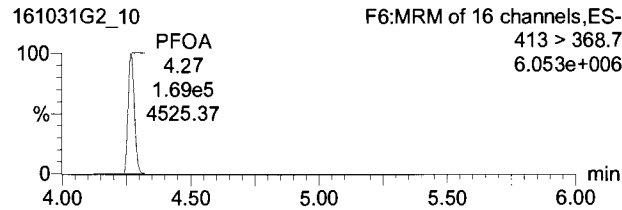
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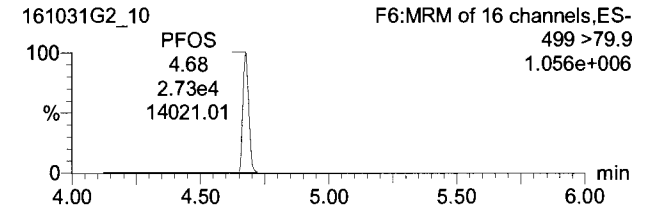
6:2 FTS



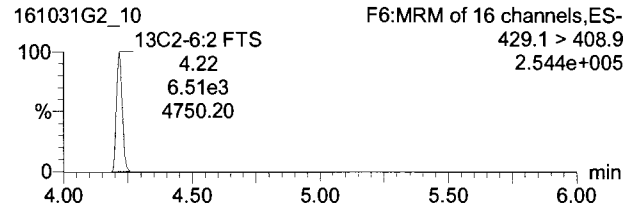
PFOA



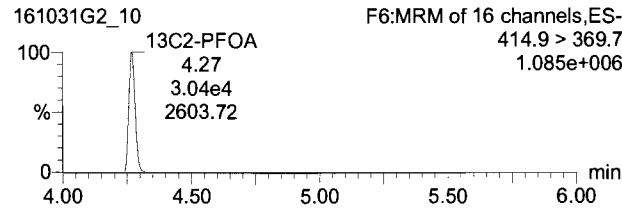
PFOS



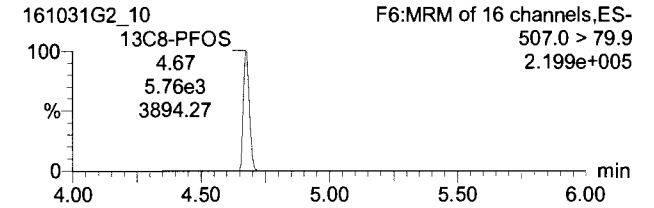
13C2-6:2 FTS



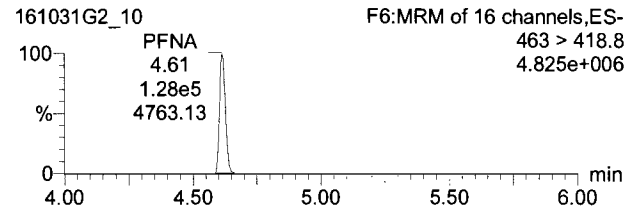
13C2-PFOA



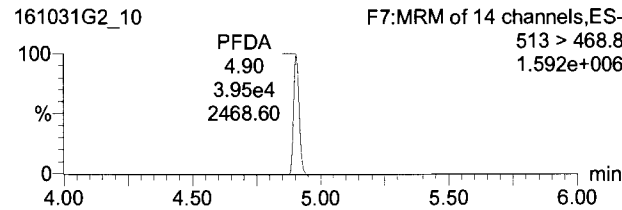
13C8-PFOS



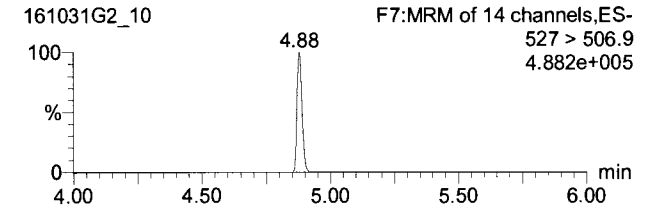
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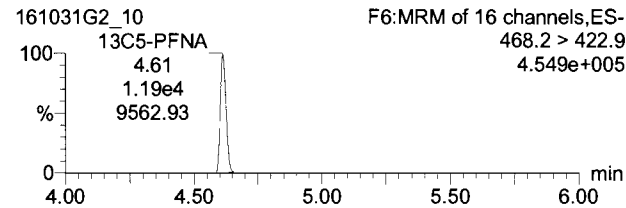
PFDA



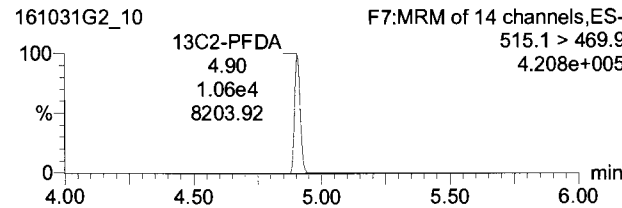
8:2 FTS



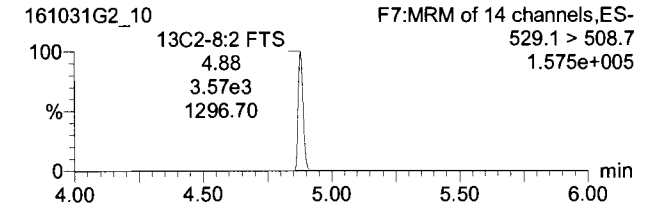
13C5-PFNA



13C2-PFDA

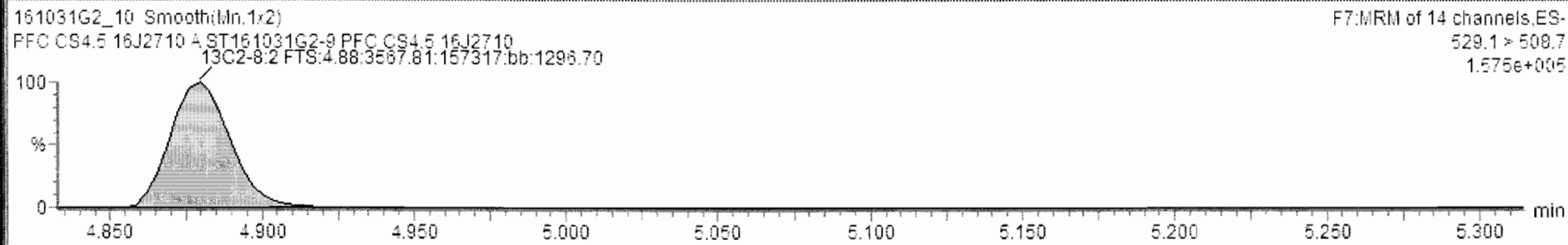
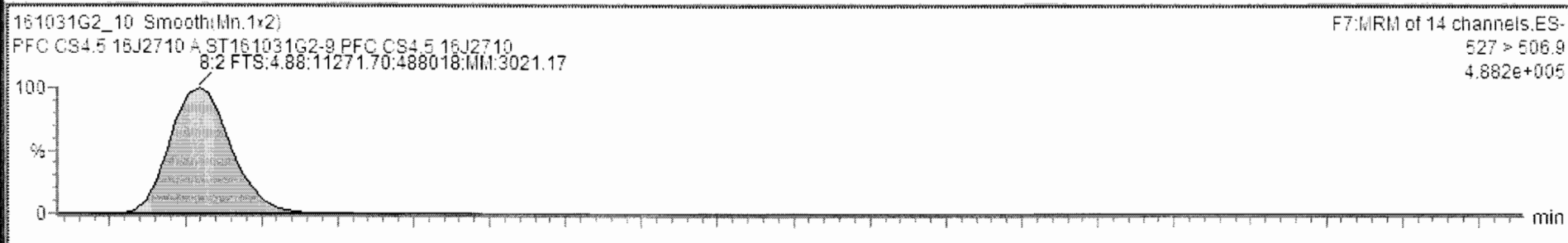


13C2-8:2 FTS



161031G2_10 - ST161031G2-9 PFC CS4.5 16J2710 - PFC CS4.5 16J2710 A

Name	Trace	Area	Response	RRF	WtVoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	8.44e4	51.087	0.681	1.77	75.1	100.1	0.0327276		0.9989
2	PFPeA	263.1 > 218.9	6.99e4	60.517	0.807	2.72	74.4	99.2	0.0518582		0.9990
3	PFBS	289 > 79.7	4.71e4	104.438	1.393	2.97	75.5	100.7	0.0843678		0.9987
4	PFHxA	313.2 > 268.9	6.44e4	44.897	0.569	3.33	76.9	102.6	0.0312998		0.9991
5	PFHpA	363 > 318.9	1.59e5	107.382	1.432	3.84	75.8	101.0	0.0542971		0.9990
6	PFHxS	398.9 > 79.8	5.18e4	110.390	1.472	3.97	74.9	99.9	0.0280233		0.9996
7	6:2 FTS	427.1 > 407	1.84e4	35.420	0.472	4.22	69.4	92.5	0.0077995		0.9774
8	PFOA	413 > 368.7	1.69e5	69.682	0.929	4.27	76.6	102.1	0.0258967		0.9981
9	PFOS	499 > 79.9	2.73e4	59.289	0.791	4.68	68.9	91.9	0.0691400		0.9954
10	PFNA	463 > 418.8	1.28e5	135.090	1.801	4.61	73.9	96.5	0.0709993		0.9990
11	PFDA	513 > 468.8	3.95e4	46.736	0.623	4.90	73.1	97.4	0.1011274		0.9984
12	8:2 FTS	527 > 506.9	1.13e4	39.491	0.527	4.88	75.8	101.1	0.0639291		0.9983
13	13C3-PFBA	216.1 > 171.8	2.07e4	12.220	0.978	1.77	12.7	101.8	0.0077704	4.47	
14	13C3-PFPeA	266 > 221.8	1.44e4	6.662	0.533	2.72	12.7	101.2	0.0186335	4.47	



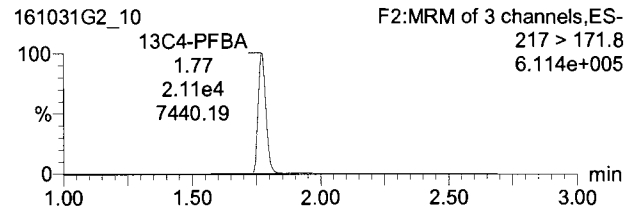
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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

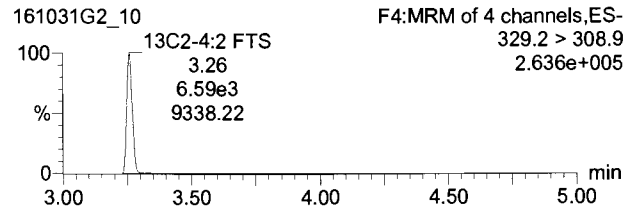
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_10, Date: 31-Oct-2016, Time: 18:54:56, ID: ST161031G2-9 PFC CS4.5 16J2710, Description: PFC CS4.5 16J2710 A

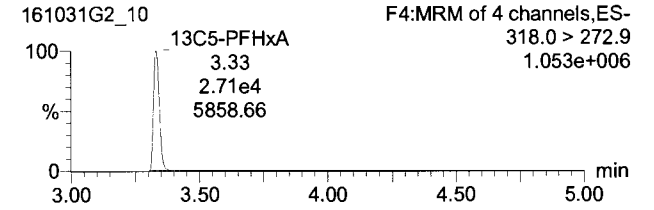
13C4-PFBA



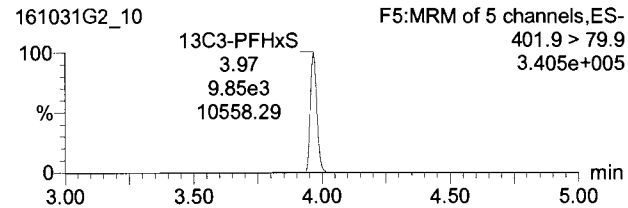
13C2-4:2 FTS



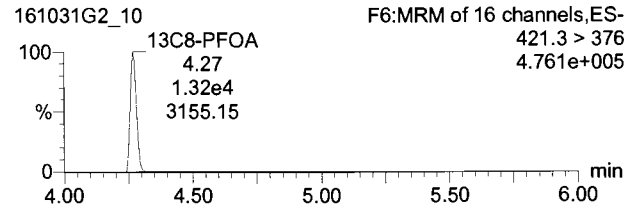
13C5-PFHxA



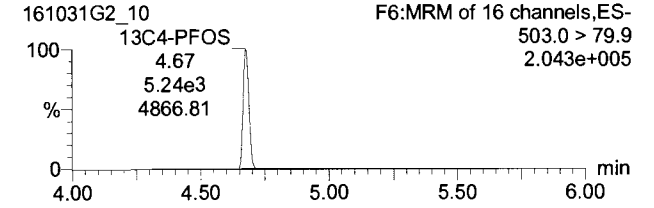
13C3-PFHxS



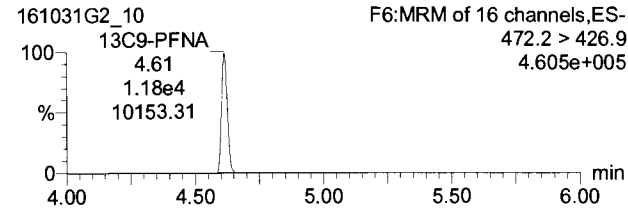
13C8-PFOA



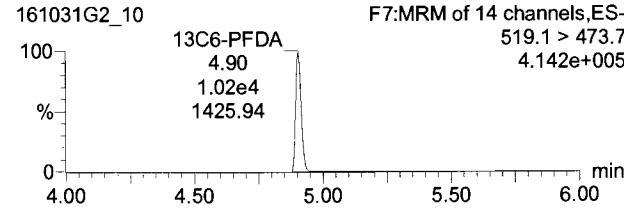
13C4-PFOS



13C9-PFNA



13C6-PFDA

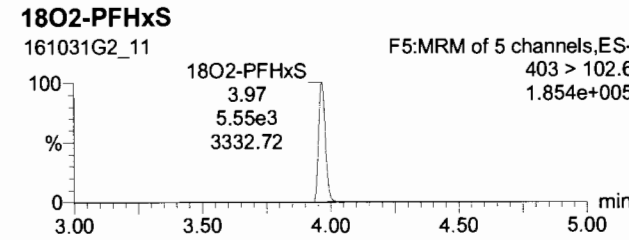
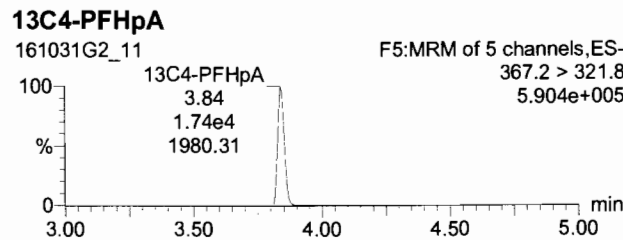
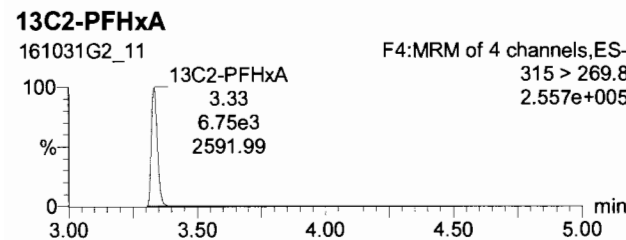
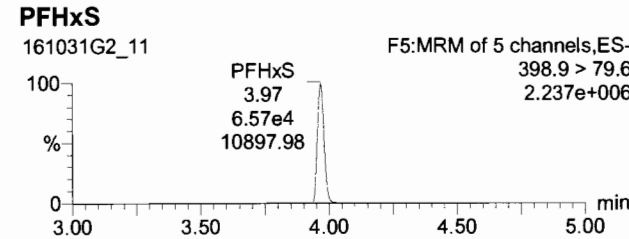
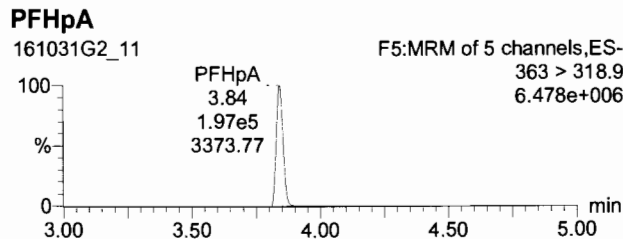
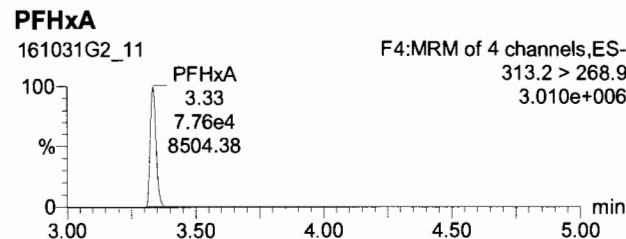
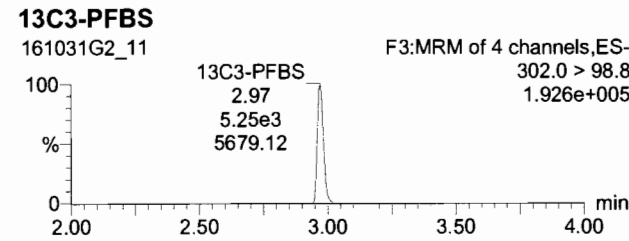
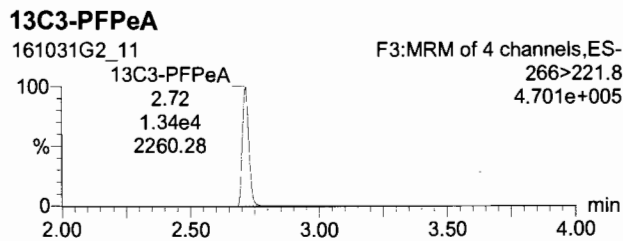
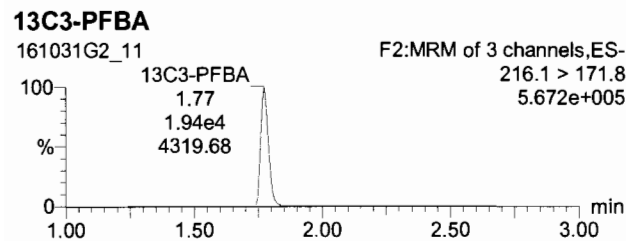
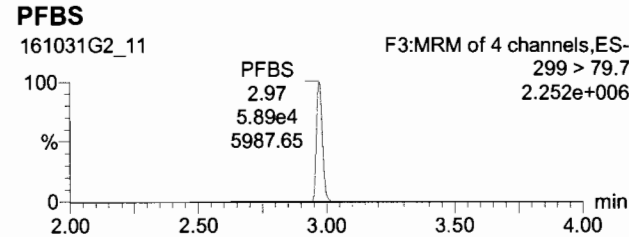
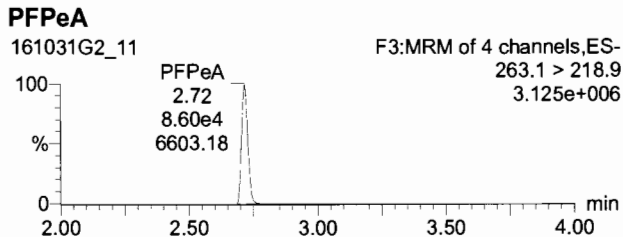
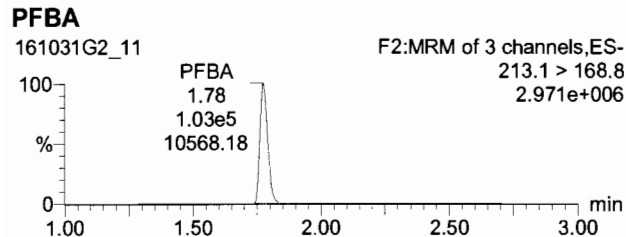


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Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_11, Date: 31-Oct-2016, Time: 19:07:32, ID: ST161031G2-10 PFC CS5 16J2711, Description: PFC CS5 16J2711 A



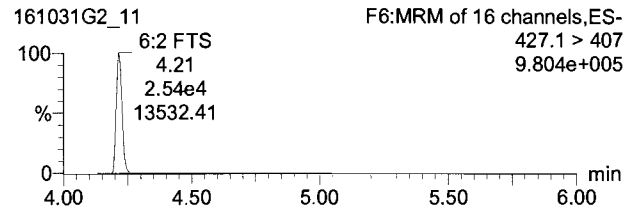
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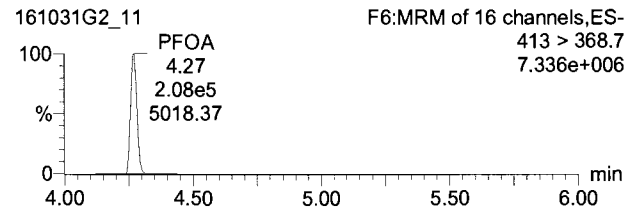
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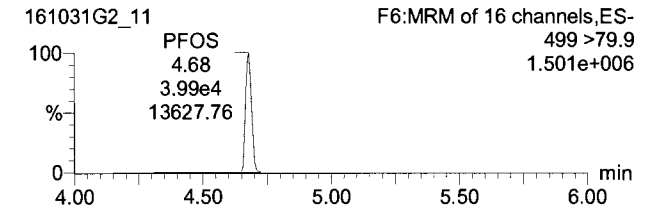
6:2 FTS



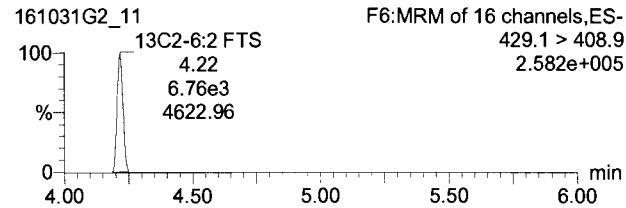
PFOA



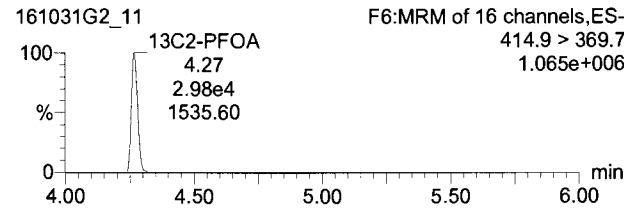
PFOS



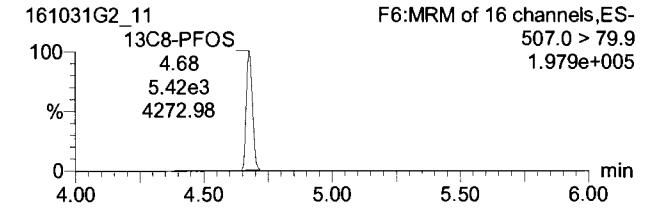
13C2-6:2 FTS



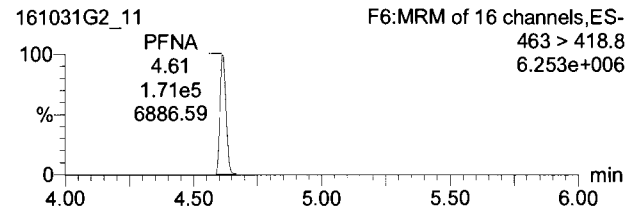
13C2-PFOA



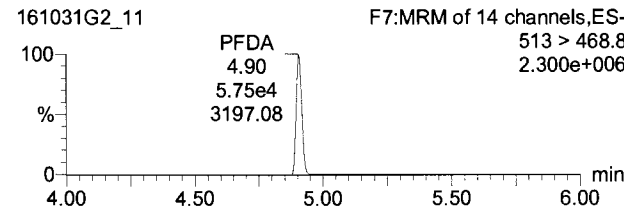
13C8-PFOS



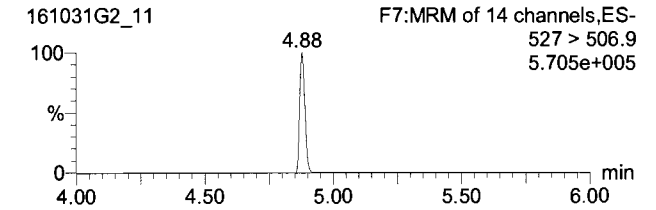
PFNA



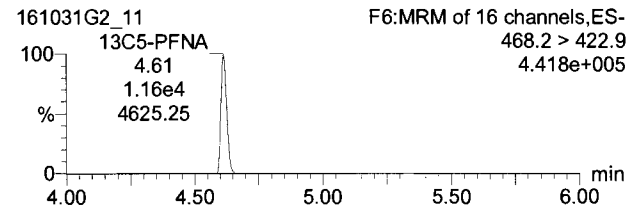
PFDA



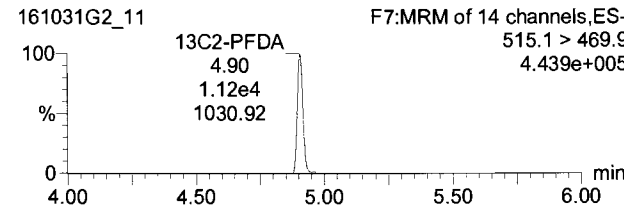
8:2 FTS



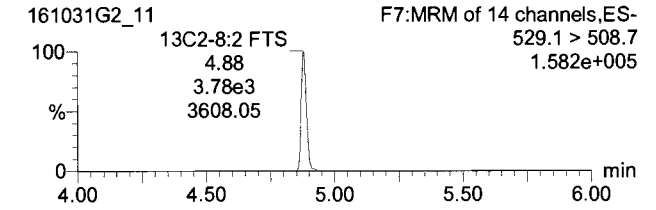
13C5-PFNA



13C2-PFDA

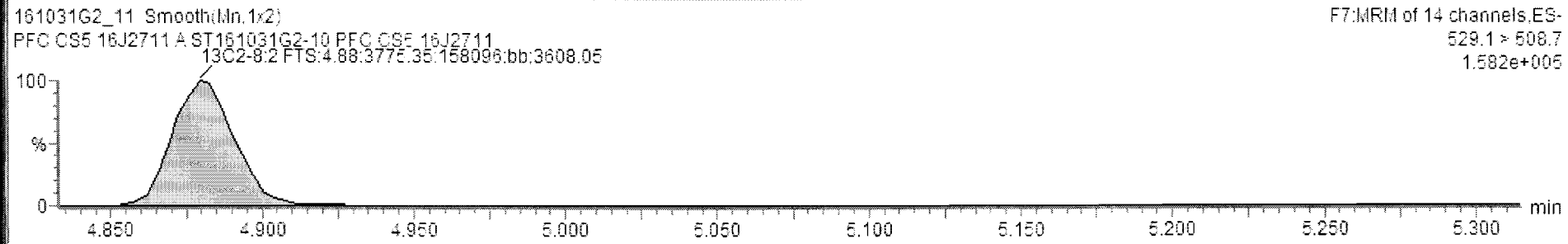
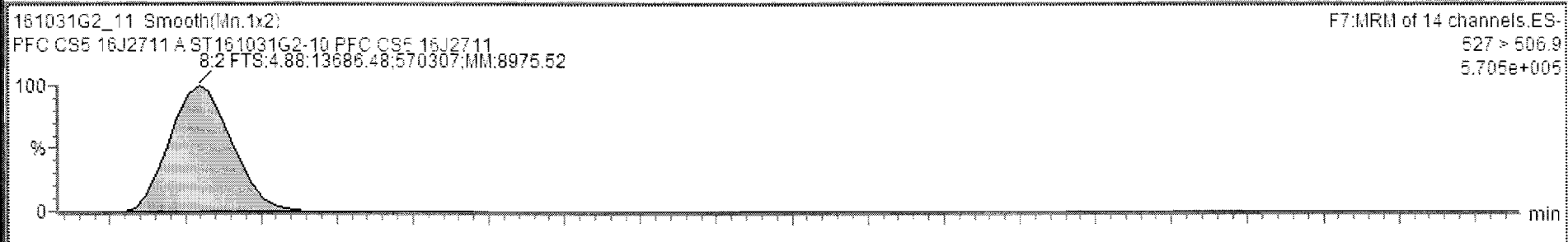


13C2-8:2 FTS



161031G2_11 - ST161031G2-10 PFC CS5 16J2711 - PFC CS5 16J2711 A

Name	Trace	Area	Response	RRF	Wt/VoL	RT	Conc.	%Rec	DL	%RSD	Coeff. Of D...
1	PFBA	213.1 > 168.8	1.03e5	66.494	0.665	1.000	1.78	97.8	97.8	0.0260358	0.9989
2	PFPeA	263.1 > 218.9	8.60e4	80.245	0.802	1.000	2.72	98.6	98.6	0.0807746	0.9990
3	PFBS	259 > 79.7	5.89e4	140.345	1.403	1.000	2.97	101	101.5	0.1099331	0.9987
4	PFHxA	313.2 > 268.9	7.76e4	57.494	0.575	1.000	3.33	98.5	98.5	0.0102827	0.9991
5	PFHpA	363 > 318.9	1.97e5	141.744	1.417	1.000	3.84	100	100.0	0.0928676	0.9990
6	PFHxS	398.9 > 79.6	6.57e4	147.941	1.479	1.000	3.97	100	100.4	0.0363065	0.9996
7	8:2 FTS	427.1 > 407	2.54e4	46.933	0.468	1.000	4.21	105	104.7	0.0110362	0.9774
8	PFOA	413 > 368.7	2.08e5	87.068	0.871	1.000	4.27	95.7	95.7	0.0306469	0.9981
9	PFOs	499 > 79.9	3.99e4	92.059	0.921	1.000	4.88	107	107.0	0.0769305	0.9954
10	PFNA	463 > 418.8	1.71e5	184.533	1.845	1.000	4.61	101	100.9	0.0680584	0.9990
11	PFDA	513 > 468.8	5.75e4	84.269	0.643	1.000	4.90	100	100.5	0.1053562	0.9984
12	8:2 FTS	527 > 508.9	1.37e4	45.315	0.453	1.000	4.88	96.6	96.6	0.0438888	0.9982
13	13C3-PFBA	216.1 > 171.8	1.94e4	12.556	1.004	1.000	1.77	13.1	104.6	0.0078269	4.47
14	13C3-PFPeA	266 > 221.8	1.34e4	6.919	0.554	1.000	2.72	13.1	105.1	0.0136090	4.47



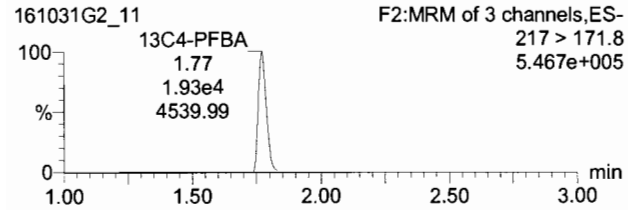
Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 11:15:44 Pacific Daylight Time

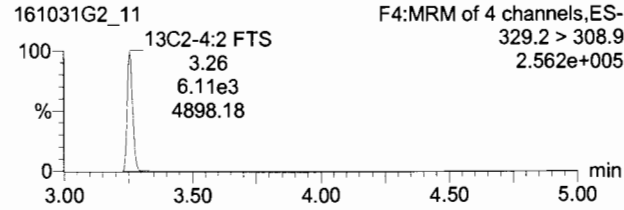
Printed: Tuesday, November 01, 2016 11:16:04 Pacific Daylight Time

Name: 161031G2_11, Date: 31-Oct-2016, Time: 19:07:32, ID: ST161031G2-10 PFC CS5 16J2711, Description: PFC CS5 16J2711 A

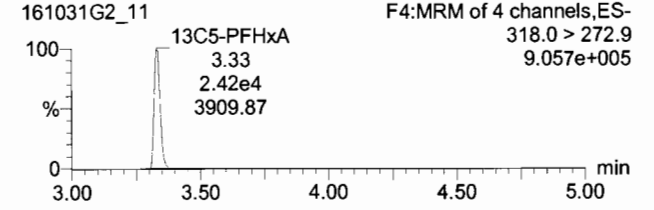
13C4-PFBA



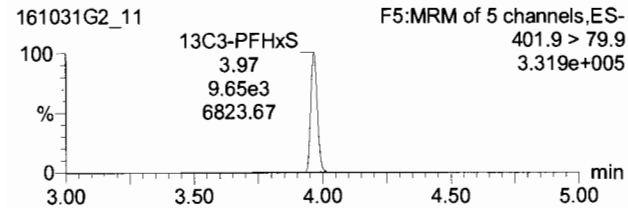
13C2-4:2 FTS



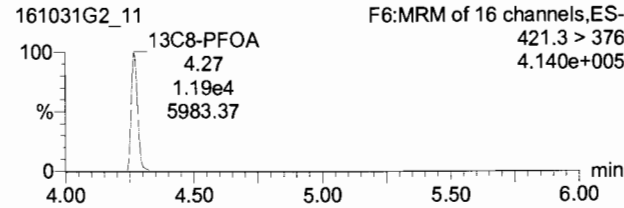
13C5-PFHxA



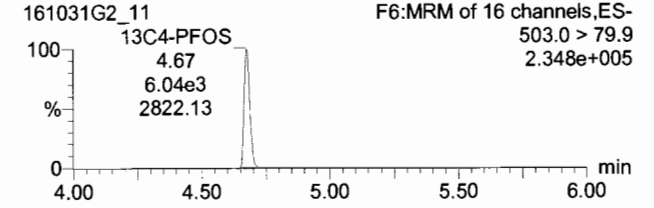
13C3-PFHxS



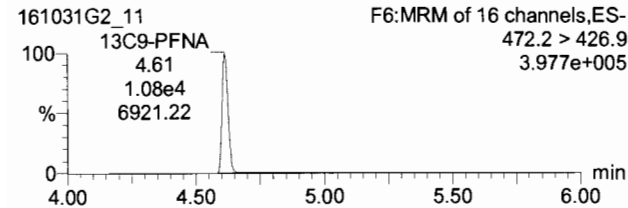
13C8-PFOA



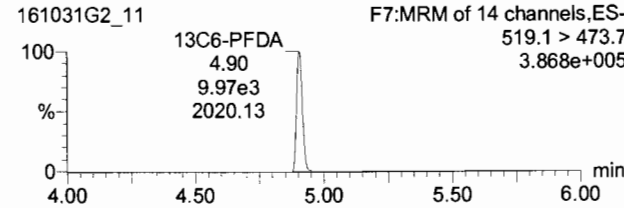
13C4-PFOS



13C9-PFNA



13C6-PFDA



Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-13.qld

Last Altered: Tuesday, November 01, 2016 13:28:56 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:29:25 Pacific Daylight Time

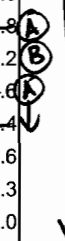
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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 13:21:44

Name: 161031G2_13, Date: 31-Oct-2016, Time: 19:32:47, ID: SS161031G2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	213.1 > 168.8	2.53e4	1.78e4	1.000	1.77	1.77	26.2	104.8
2	2 PFPeA	263.1 > 218.9	1.63e4	1.26e4	1.000	2.72	2.72	20.0	79.8
3	3 PFBS	299 > 79.7	1.16e4	5.16e3	1.000	2.97	2.97	20.4	81.4
4	4 PFHxA	313.2 > 268.9	2.15e4	6.43e3	1.000	3.34	3.34	28.6	114.5
5	5 PFHpA	363 > 318.9	4.98e4	1.74e4	1.000	3.84	3.84	25.2	100.9
6	6 PFHxS	398.9 > 79.6	1.03e4	5.08e3	1.000	3.97	3.97	17.2	64.8
7	7 6:2 FTS	427.1 > 407	4.96e3	3.14e3	1.000	4.22	4.22	34.3	137.2
8	8 PFOA	413 > 368.7	3.81e4	2.60e4	1.000	4.27	4.27	20.1	80.6
9	9 PFOS	499 > 79.9	5.03e3	4.78e3	1.000	4.68	4.68	15.3	61.4
10	10 PFNA	463 > 418.8	3.78e4	1.07e4	1.000	4.62	4.62	24.2	96.6
11	11 PFDA	513 > 468.8	1.09e4	7.67e3	1.000	4.91	4.91	27.8	111.3
12	12 8:2 FTS	527 > 506.9	2.02e3	2.31e3	1.000	4.88	4.88	18.8	75.0
13	13 13C3-PFBA	216.1 > 171.8	1.78e4	1.79e4	0.960	1.77	1.77	13.0	103.7
14	14 13C3-PFPeA	266 > 221.8	1.26e4	2.35e4	0.526	2.72	2.72	12.7	101.9
15	15 13C3-PFBS	302.0 > 98.8	5.16e3	2.35e4	0.209	2.97	2.97	13.2	105.4
16	16 13C2-PFHxA	315 > 269.8	6.43e3	2.35e4	0.655	3.33	3.33	5.23	104.5
17	17 13C4-PFHpA	367.2 > 321.8	1.74e4	8.24e3	1.904	3.84	3.84	13.9	111.0
18	18 18O2-PFHxS	403 > 102.6	5.08e3	8.24e3	0.580	3.97	3.97	13.3	106.3
19	19 13C2-6:2 FTS	429.1 > 408.9	3.14e3	4.49e3	0.896	4.22	4.22	9.74	77.9
20	20 13C2-PFOA	414.9 > 369.7	2.60e4	1.13e4	2.326	4.27	4.27	12.4	99.1
21	21 13C8-PFOS	507.0 > 79.9	4.78e3	3.60e3	0.982	4.68	4.68	16.9	135.2
22	22 13C5-PFNA	468.2 > 422.9	1.07e4	9.73e3	1.038	4.61	4.61	13.3	106.1
23	23 13C2-PFDA	515.1 > 469.9	7.67e3	7.69e3	1.053	4.91	4.91	11.8	94.7
24	24 13C2-8:2 FTS	529.1 > 508.7	2.31e3	4.49e3	0.635	4.88	4.88	10.1	80.9
25	25 13C4-PFBA	217 > 171.8	1.79e4	1.79e4	1.000	1.77	1.77	12.5	100.0
26	26 13C2-4:2 FTS	329.2 > 308.9	4.49e3	4.49e3	1.000	3.26	3.26	12.5	100.0
27	27 13C5-PFHxA	318.0 > 272.9	2.35e4	2.35e4	1.000	3.33	3.33	12.5	100.0
28	28 13C3-PFHxS	401.9 > 79.9	8.24e3	8.24e3	1.000	3.97	3.97	12.5	100.0
29	29 13C8-PFOA	421.3 > 376	1.13e4	1.13e4	1.000	4.27	4.27	12.5	100.0
30	30 13C4-PFOS	503.0 > 79.9	3.60e3	3.60e3	1.000	4.68	4.68	12.5	100.0
31	31 13C9-PFNA	472.2 > 426.9	9.73e3	9.73e3	1.000	4.61	4.61	12.5	100.0

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Vista Analytical Laboratory Q1

Dataset: U:\G1.PRO\Results\2016\161031G2\161031G2-13.qld

Last Altered: Tuesday, November 01, 2016 13:28:56 Pacific Daylight Time

Printed: Tuesday, November 01, 2016 13:29:25 Pacific Daylight Time

Name: 161031G2_13, Date: 31-Oct-2016, Time: 19:32:47, ID: SS161031G2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
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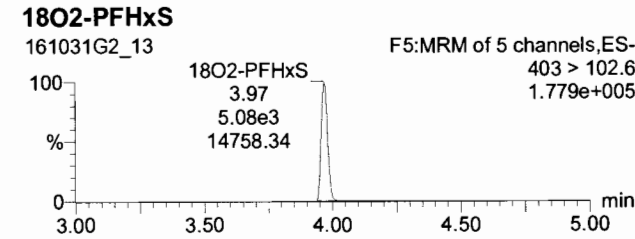
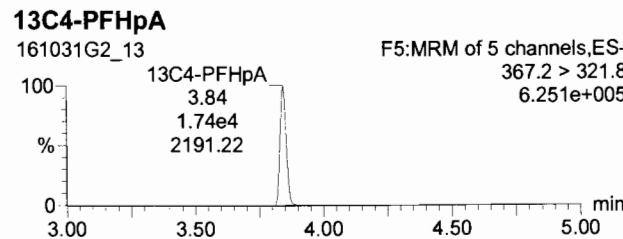
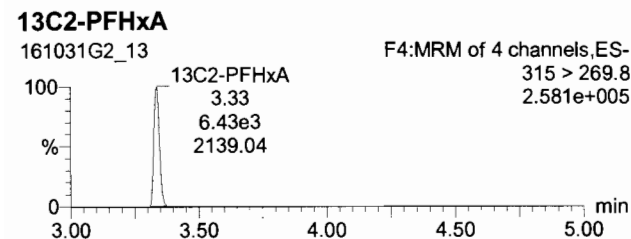
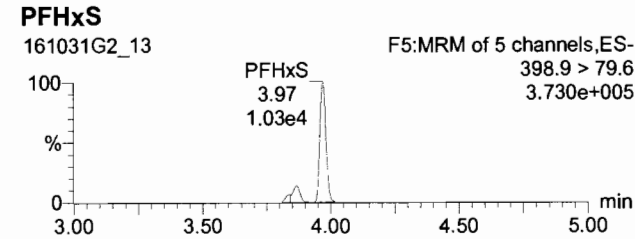
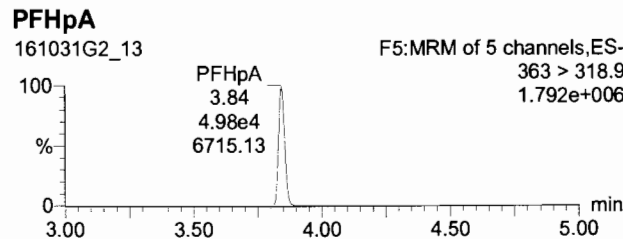
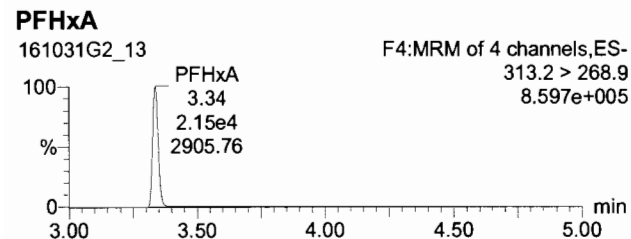
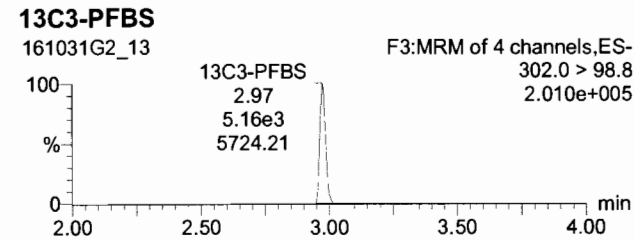
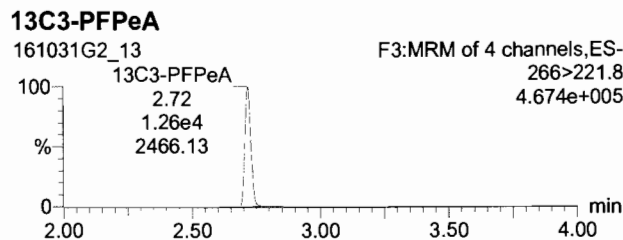
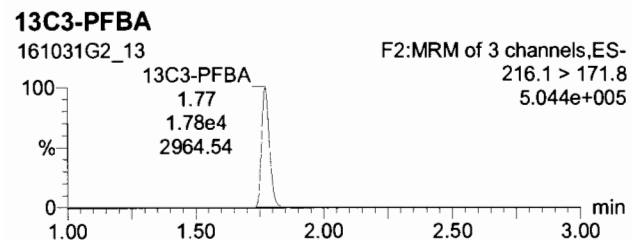
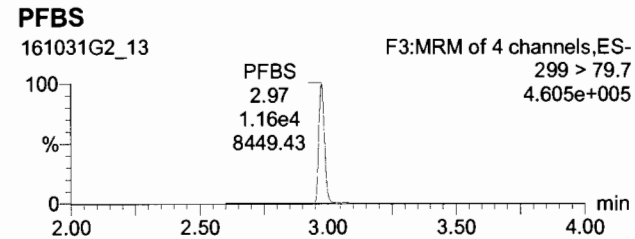
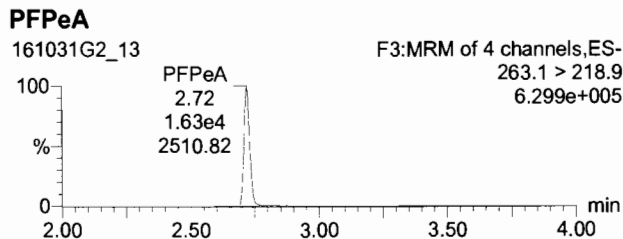
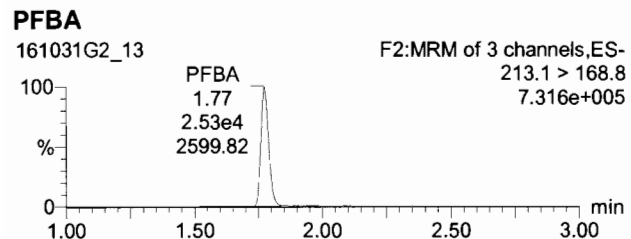
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Printed: Tuesday, November 01, 2016 12:05:16 Pacific Daylight Time

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Calibration: U:\G1.PRO\CurveDB\C18_VAL-PFC_Q1_10-31-16_L18_A.cdb 01 Nov 2016 11:59:14

Name: 161031G2_13, Date: 31-Oct-2016, Time: 19:32:47, ID: SS161031G2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A



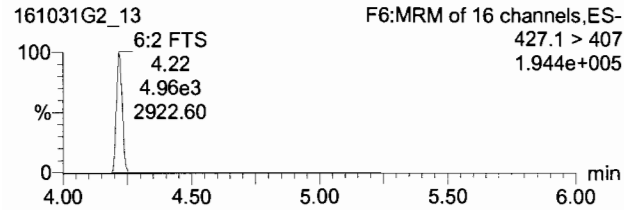
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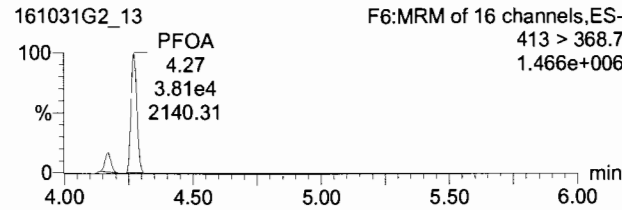
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Name: 161031G2_13, Date: 31-Oct-2016, Time: 19:32:47, ID: SS161031G2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

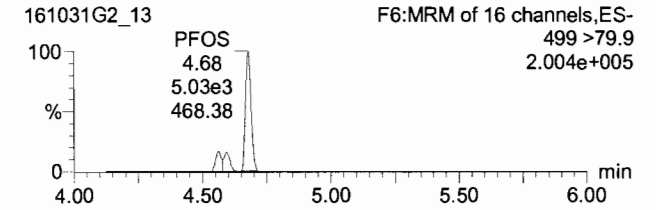
6:2 FTS



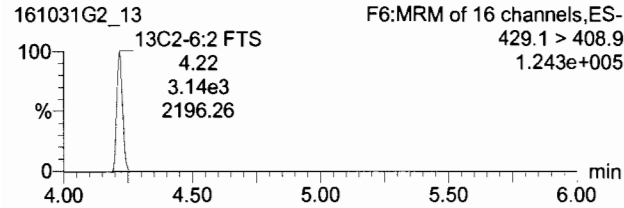
PFOA



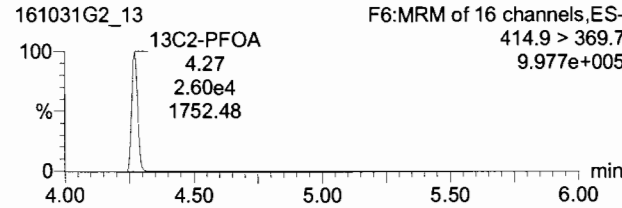
PFOS



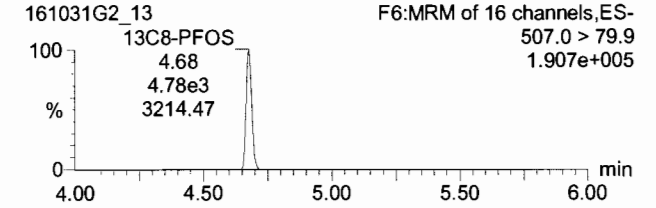
13C2-6:2 FTS



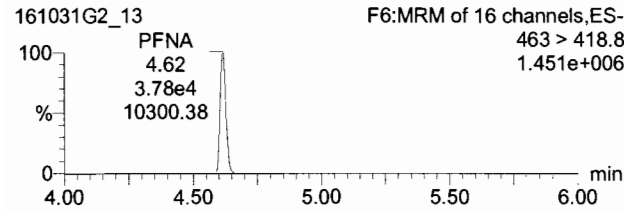
13C2-PFOA



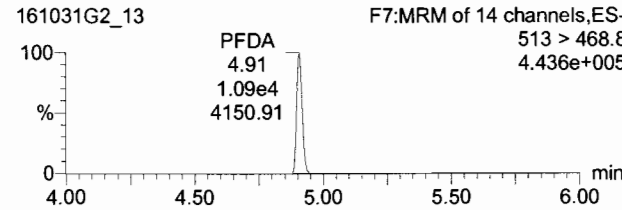
13C8-PFOS



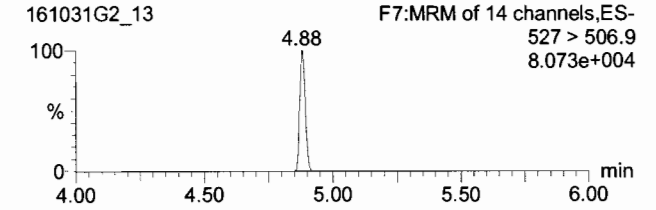
PFNA



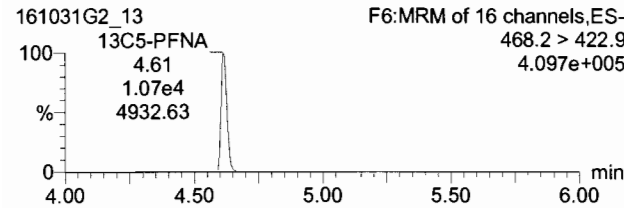
PFDA



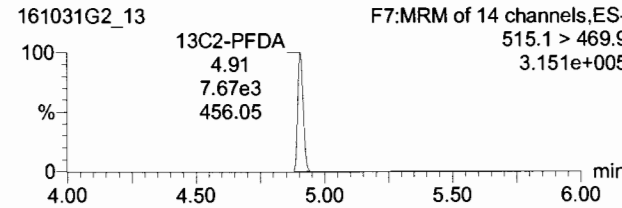
8:2 FTS



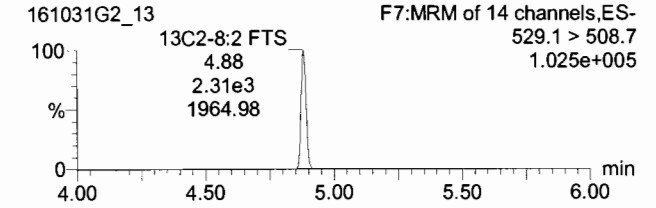
13C5-PFNA



13C2-PFDA

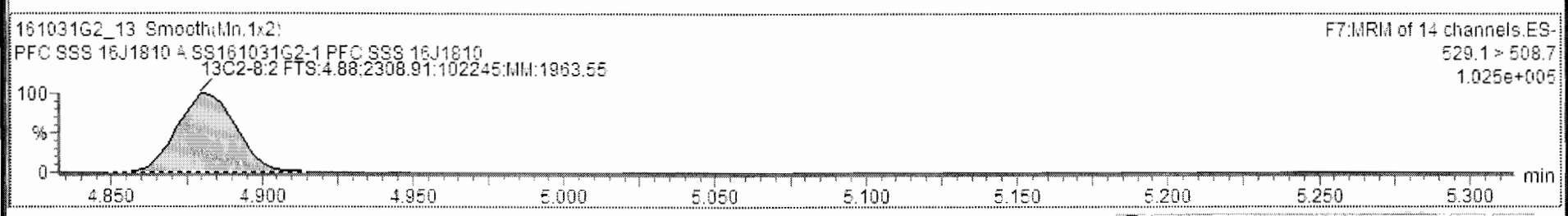
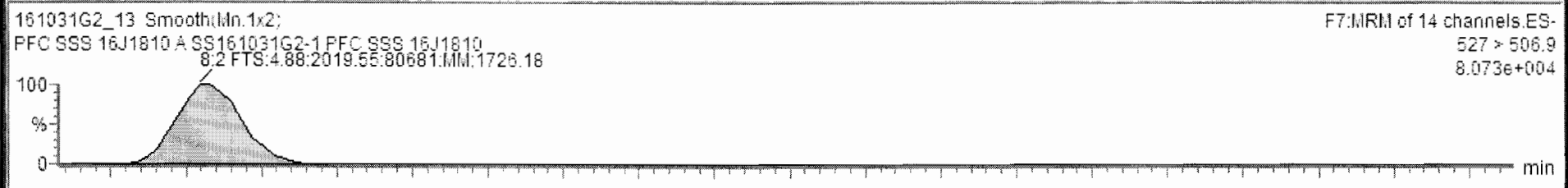


13C2-8:2 FTS



161031G2_13 - SS161031G2-1 PFC SSS 16J1810 - PFC SSS 16J1810 A

Name	Trace	Area	RRF	Wt/Vol	Pred.RT	RT	Conc.	>MDL	%Rec	DL
1	PFBA	213.1 > 166.8	2.53e4	1.000	1.77	1.77	26.2	YES	104.8	0.0288910
2	PFPeA	263.1 > 218.9	1.63e4	1.000	2.72	2.72	20.0	YES	79.8	0.0427341
3	PFBS	299 > 79.7	1.16e4	1.000	2.97	2.97	20.4	YES	81.4	0.0719750
4	PFHxA	313.2 > 268.9	2.15e4	1.000	3.33	3.34	28.6	YES	114.5	0.0051964
5	PFHpA	363 > 318.9	4.98e4	1.000	3.84	3.84	25.2	YES	100.9	0.0305483
6	PFHxS	398.9 > 79.6	1.03e4	1.000	3.97	3.97	17.2	YES	68.8	0.0128032
7	6:2 FTS	427.1 > 407	4.86e3	1.000	4.22	4.22	34.3	YES	137.2	0.0616842
8	PFOA	413 > 368.7	3.81e4	1.000	4.27	4.27	20.1	YES	80.6	0.0070726
9	PFOS	469 > 79.9	5.03e3	1.000	4.68	4.68	15.3	YES	61.4	0.1345381
10	PFNA	463 > 418.8	3.78e4	1.000	4.61	4.62	24.2	YES	96.6	0.0388678
11	PFDA	513 > 468.8	1.09e4	1.000	4.91	4.91	27.8	NO	111.3	0.0428996
12	8:2 FTS	527 > 506.9	2.02e3	1.000	4.88	4.88	18.8	YES	75.0	0.0344267
13	13C3-PFBA	216.1 > 171.8	1.78e4	0.960	1.77	1.77	13.0	NO	103.7	0.0111681
14	13C3-PFPeA	266 > 221.8	1.26e4	0.526	2.72	2.72	12.7	NO	101.9	0.0119928
15	13C3-PFBS	302.0 > 98.8	5.16e3	0.209	2.97	2.97	13.2	NO	105.4	0.0056148
16	13C2-PFHxA	315 > 269.8	6.43e3	0.655	3.33	3.33	5.23	NO	104.5	0.0061313
17	13C4-PFHpA	367.2 > 321.8	1.74e4	1.90	3.85	3.84	13.9	NO	111.0	0.0156260
18	18O2-PFHxS	403 > 102.6	5.08e3	0.580	3.97	3.97	13.3	NO	108.3	0.0021694



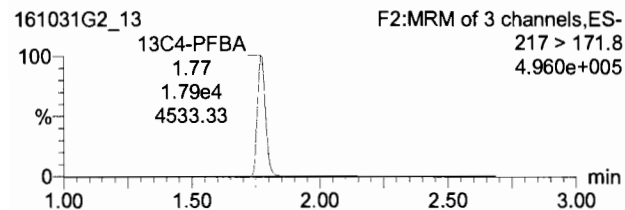
Dataset: Untitled

Last Altered: Tuesday, November 01, 2016 12:04:06 Pacific Daylight Time

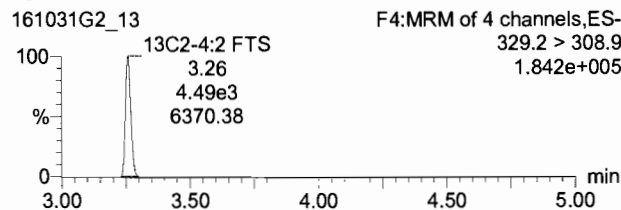
Printed: Tuesday, November 01, 2016 12:05:16 Pacific Daylight Time

Name: 161031G2_13, Date: 31-Oct-2016, Time: 19:32:47, ID: SS161031G2-1 PFC SSS 16J1810, Description: PFC SSS 16J1810 A

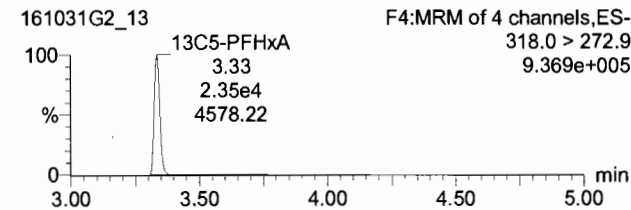
13C4-PFBA



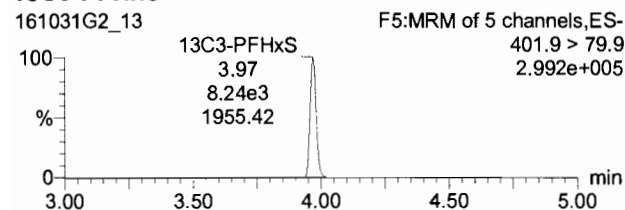
13C2-4:2 FTS



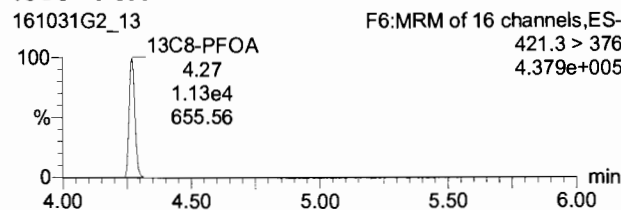
13C5-PFHxA



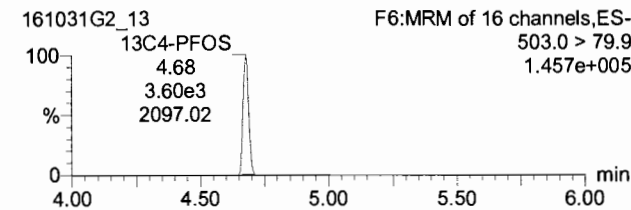
13C3-PFHxS



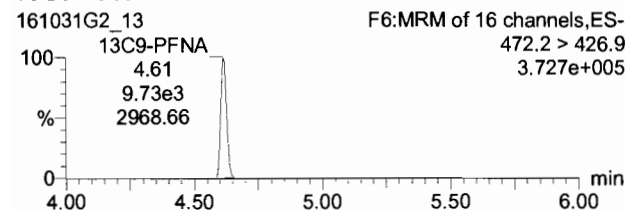
13C8-PFOA



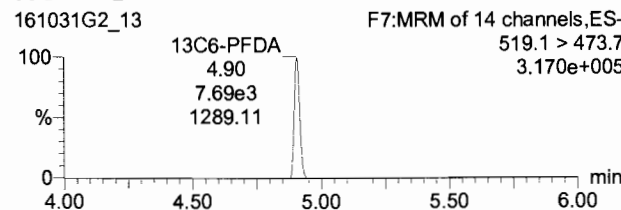
13C4-PFOS



13C9-PFNA



13C6-PFDA



Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:36:26 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 02 Nov 2016 09:14:04

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Compound name: PFBA

Correlation coefficient: $r = 0.998823$, $r^2 = 0.997647$

Calibration curve: $1.04067 * x + 0.0803852$

Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	2.13	4.96e2	1.11e4	0.458	-8.3	1.11
2	2 161101J1_04_P1_...	1.00	2.13	9.20e2	1.00e4	1.03	2.8	1.15
3	3 161101J1_05_P1_...	2.00	2.13	2.40e3	1.35e4	2.06	3.0	1.11
4	4 161101J1_06_P1_...	5.00	2.13	6.15e3	1.46e4	4.99	-0.1	1.06
5	5 161101J1_07_P1_...	10.0	2.13	1.45e4	1.43e4	12.1	21.0	1.27
6	6 161101J1_08_P1_...	25.0	2.13	1.94e4	9.57e3	24.3	-2.9	1.01
7	7 161101J1_09_P1_...	50.0	2.13	6.00e4	1.40e4	51.3	2.7	1.07
8	8 161101J1_10_P1_...	75.0	2.13	8.26e4	1.32e4	75.1	0.1	1.04
9	9 161101J1_11_P1_E1	100	2.13	1.02e5	1.26e4	97.1	-2.9	1.01

PW
11/2/16
✓ AC 11/2/16

Compound name: PFPeA

Correlation coefficient: $r = 0.998730$, $r^2 = 0.997462$

Calibration curve: $0.89611 * x + 0.0760945$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	3.24	4.55e2	1.19e4	0.451	-9.8	0.960
2	2 161101J1_04_P1_...	1.00	3.25	8.82e2	1.08e4	1.06	5.8	1.02
3	3 161101J1_05_P1_...	2.00	3.24	2.29e3	1.48e4	2.07	3.6	0.966
4	4 161101J1_06_P1_...	5.00	3.24	5.88e3	1.56e4	5.16	3.2	0.940
5	5 161101J1_07_P1_...	10.0	3.25	1.35e4	1.57e4	12.0	19.6	1.08
6	6 161101J1_08_P1_...	25.0	3.24	1.79e4	1.07e4	23.4	-6.6	0.840
7	7 161101J1_09_P1_...	50.0	3.25	5.65e4	1.53e4	51.6	3.3	0.927
8	8 161101J1_10_P1_...	75.0	3.24	7.69e4	1.42e4	75.5	0.6	0.903
9	9 161101J1_11_P1_E1	100	3.25	9.35e4	1.34e4	97.3	-2.7	0.873

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
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Compound name: PFBS

Correlation coefficient: $r = 0.999412$, $r^2 = 0.998825$

Calibration curve: $0.793166 * x + 0.0450955$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	3.51	2.30e2	7.47e3	0.428	-14.5	0.768
2	2 161101J1_04_P1_...	1.00	3.52	4.66e2	6.55e3	1.06	6.5	0.890
3	3 161101J1_05_P1_...	2.00	3.52	1.20e3	8.33e3	2.22	10.8	0.901
4	4 161101J1_06_P1_...	5.00	3.52	2.89e3	9.33e3	4.82	-3.6	0.774
5	5 161101J1_07_P1_...	10.0	3.52	6.98e3	9.51e3	11.5	15.0	0.917
6	6 161101J1_08_P1_...	25.0	3.51	8.85e3	5.68e3	24.5	-2.0	0.779
7	7 161101J1_09_P1_...	50.0	3.52	2.93e4	9.22e3	50.1	0.2	0.795
8	8 161101J1_10_P1_...	75.0	3.51	3.90e4	8.20e3	75.0	0.0	0.794
9	9 161101J1_11_P1_E1	100	3.52	4.82e4	7.68e3	98.9	-1.1	0.785

Compound name: PFHxA

Correlation coefficient: $r = 0.998472$, $r^2 = 0.996947$

Calibration curve: $0.802262 * x + 0.0712244$

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	3.89	4.03e2	4.62e3	0.456	-8.8	0.874
2	2 161101J1_04_P1_...	1.00	3.89	7.74e2	4.10e3	1.09	8.8	0.944
3	3 161101J1_05_P1_...	2.00	3.88	1.94e3	5.83e3	1.98	-0.9	0.831
4	4 161101J1_06_P1_...	5.00	3.89	5.15e3	6.12e3	5.15	3.0	0.841
5	5 161101J1_07_P1_...	10.0	3.89	1.16e4	6.07e3	11.9	18.7	0.959
6	6 161101J1_08_P1_...	25.0	3.88	1.47e4	3.85e3	23.7	-5.3	0.763
7	7 161101J1_09_P1_...	50.0	3.89	4.87e4	5.73e3	53.0	5.9	0.851
8	8 161101J1_10_P1_...	75.0	3.88	6.58e4	5.44e3	75.2	0.3	0.806
9	9 161101J1_11_P1_E1	100	3.89	8.02e4	5.20e3	96.1	-3.9	0.772

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: PFHpA

Coefficient of Determination: $R^2 = 0.997259$

Calibration curve: $-0.000756003 * x^2 + 0.884449 * x + 0.0179122$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	4.38	3.57e2	1.05e4	0.461	-7.8	0.851
2	2 161101J1_04_P1_...	1.00	4.37	6.59e2	9.01e3	1.01	1.4	0.914
3	3 161101J1_05_P1_...	2.00	4.37	1.85e3	1.24e4	2.10	4.8	0.934
4	4 161101J1_06_P1_...	5.00	4.38	4.62e3	1.36e4	4.81	-3.8	0.851
5	5 161101J1_07_P1_...	10.0	4.38	1.10e4	1.32e4	11.8	18.1	1.04
6	6 161101J1_08_P1_...	25.0	4.37	1.19e4	7.63e3	22.4	-10.5	0.777
7	7 161101J1_09_P1_...	50.0	4.38	4.62e4	1.33e4	51.2	2.4	0.867
8	8 161101J1_10_P1_...	75.0	4.37	6.23e4	1.27e4	74.3	-0.9	0.821
9	9 161101J1_11_P1_E1	100	4.38	7.89e4	1.21e4	100	0.4	0.812

Compound name: PFHxS

Correlation coefficient: $r = 0.998567$, $r^2 = 0.997136$

Calibration curve: $3.14713 * x + 0.110952$

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	4.48	2.16e2	1.75e3	0.453	-9.4	3.07
2	2 161101J1_04_P1_...	1.00	4.48	4.10e2	1.51e3	1.04	4.4	3.40
3	3 161101J1_05_P1_...	2.00	4.48	1.04e3	1.87e3	2.17	8.7	3.48
4	4 161101J1_06_P1_...	5.00	4.49	2.64e3	2.13e3	4.89	-2.1	3.10
5	5 161101J1_07_P1_...	10.0	4.49	6.06e3	2.12e3	11.3	13.3	3.58
6	6 161101J1_08_P1_...	25.0	4.48	6.98e3	1.22e3	22.7	-9.4	2.86
7	7 161101J1_09_P1_...	50.0	4.49	2.63e4	2.01e3	51.8	3.6	3.26
8	8 161101J1_10_P1_...	75.0	4.48	3.52e4	1.95e3	71.4	-4.8	3.00
9	9 161101J1_11_P1_E1	100	4.48	4.43e4	1.71e3	103	2.7	3.23

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.997002$
 Calibration curve: $-0.00242186 * x^2 + 1.04274 * x + 0.0431906$
 Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	4.72	1.10e2	2.56e3	0.472	-5.5	1.07
2	2 161101J1_04_P1_...	1.00	4.71	2.09e2	2.30e3	1.05	5.5	1.14
3	3 161101J1_05_P1_...	2.00	4.72	5.38e2	3.20e3	1.98	-0.9	1.05
4	4 161101J1_06_P1_...	5.00	4.72	1.43e3	3.59e3	4.79	-4.3	0.996
5	5 161101J1_07_P1_...	10.0	4.72	3.47e3	3.51e3	12.1	21.4	1.23
6	6 161101J1_08_P1_...	25.0	4.71	3.85e3	2.06e3	23.7	-5.3	0.935
7	7 161101J1_09_P1_...	50.0	4.72	1.39e4	3.89e3	48.1	-3.8	0.892
8	8 161101J1_10_P1_...	75.0	4.72	2.01e4	3.89e3	74.9	-0.2	0.860
9	9 161101J1_11_P1_E1	100	4.71	2.40e4	3.71e3	102	1.7	0.810

Compound name: PFOA

Coefficient of Determination: $R^2 = 0.997206$
 Calibration curve: $-0.00258683 * x^2 + 1.25142 * x + 0.139702$
 Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	4.76	4.59e2	7.17e3	0.529	5.7	1.60
2	2 161101J1_04_P1_...	1.00	4.75	8.06e2	6.72e3	1.09	8.9	1.50
3	3 161101J1_05_P1_...	2.00	4.76	2.05e3	9.60e3	2.03	1.7	1.34
4	4 161101J1_06_P1_...	5.00	4.77	5.29e3	1.07e4	4.88	-2.4	1.24
5	5 161101J1_07_P1_...	10.0	4.77	1.21e4	1.05e4	11.7	17.3	1.45
6	6 161101J1_08_P1_...	25.0	4.76	1.36e4	6.28e3	22.5	-10.0	1.08
7	7 161101J1_09_P1_...	50.0	4.76	4.90e4	1.08e4	50.3	0.7	1.13
8	8 161101J1_10_P1_...	75.0	4.76	6.77e4	1.06e4	75.2	0.2	1.06
9	9 161101J1_11_P1_E1	100	4.75	8.42e4	1.06e4	100	0.3	0.996

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
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Compound name: PFNA

Correlation coefficient: $r = 0.998264$, $r^2 = 0.996531$

Calibration curve: $0.844718 * x + 0.0222147$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	5.08	2.56e2	7.05e3	0.511	2.3	0.908
2	2 161101J1_04_P1_...	1.00	5.08	4.59e2	6.73e3	0.982	-1.8	0.852
3	3 161101J1_05_P1_...	2.00	5.09	1.17e3	8.57e3	2.00	-0.2	0.855
4	4 161101J1_06_P1_...	5.00	5.09	2.90e3	9.15e3	4.66	-6.8	0.792
5	5 161101J1_07_P1_...	10.0	5.09	6.84e3	9.05e3	11.2	11.7	0.946
6	6 161101J1_08_P1_...	25.0	5.09	8.03e3	4.94e3	24.0	-3.9	0.812
7	7 161101J1_09_P1_...	50.0	5.07	3.15e4	8.87e3	52.5	5.1	0.888
8	8 161101J1_10_P1_...	75.0	5.09	4.47e4	8.40e3	78.7	5.0	0.887
9	9 161101J1_11_P1_E1	100	5.08	5.85e4	9.22e3	93.9	-6.1	0.793

Compound name: PFOS

Correlation coefficient: $r = 0.998373$, $r^2 = 0.996749$

Calibration curve: $1.21863 * x + -0.0856808$

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	5.13	1.97e2	4.72e3	0.498	-0.5	1.04
2	2 161101J1_04_P1_...	1.00	5.14	3.60e2	4.19e3	0.952	-4.8	1.07
3	3 161101J1_05_P1_...	2.00	5.14	5.87e2	2.93e3	2.13	6.3	1.25
4	4 161101J1_06_P1_...	5.00	5.15	1.43e3	3.39e3	4.39	-12.1	1.05
5	5 161101J1_07_P1_...	10.0	5.14	3.67e3	3.80e3	9.96	-0.4	1.21
6	6 161101J1_08_P1_...	25.0	5.15	6.20e3	2.57e3	24.8	-0.9	1.20
7	7 161101J1_09_P1_...	50.0	5.13	2.07e4	4.33e3	49.1	-1.8	1.20
8	8 161101J1_10_P1_...	75.0	5.15	2.91e4	4.25e3	70.2	-6.4	1.14
9	9 161101J1_11_P1_E1	100	5.14	4.56e4	4.39e3	106	6.5	1.30

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: PFDA

Correlation coefficient: $r = 0.997864$, $r^2 = 0.995732$

Calibration curve: $0.955963 * x + -0.00839706$

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	5.34	1.68e2	4.58e3	0.489	-2.2	0.918
2	2 161101J1_04_P1_...	1.00	5.36	2.91e2	4.33e3	0.887	-11.3	0.840
3	3 161101J1_05_P1_...	2.00	5.37	5.01e2	3.42e3	1.93	-3.7	0.916
4	4 161101J1_06_P1_...	5.00	5.38	1.17e3	3.07e3	5.00	-0.1	0.953
5	5 161101J1_07_P1_...	10.0	5.37	2.93e3	3.41e3	11.3	12.7	1.08
6	6 161101J1_08_P1_...	25.0	5.37	4.57e3	2.17e3	27.5	10.1	1.05
7	7 161101J1_09_P1_...	50.0	5.35	1.59e4	4.31e3	48.3	-3.4	0.924
8	8 161101J1_10_P1_...	75.0	5.37	2.28e4	4.31e3	69.2	-7.8	0.882
9	9 161101J1_11_P1_E1	100	5.36	3.60e4	4.52e3	104	3.9	0.993

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.995172$

Calibration curve: $-0.00205731 * x^2 + 1.00441 * x + 0.0952414$

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500	5.32	5.64e1	1.23e3	0.477	-4.5	1.15
2	2 161101J1_04_P1_...	1.00	5.34	1.02e2	1.12e3	1.04	3.6	1.13
3	3 161101J1_05_P1_...	2.00	5.34	1.91e2	1.16e3	1.96	-2.0	1.03
4	4 161101J1_06_P1_...	5.00	5.35	4.09e2	9.18e2	5.51	10.2	1.11
5	5 161101J1_07_P1_...	10.0	5.34	1.01e3	1.02e3	12.4	24.4	1.23
6	6 161101J1_08_P1_...	25.0	5.35	1.16e3	6.73e2	22.3	-10.8	0.859
7	7 161101J1_09_P1_...	50.0	5.33	3.82e3	1.08e3	48.6	-2.9	0.880
8	8 161101J1_10_P1_...	75.0	5.35	6.08e3	1.20e3	74.1	-1.1	0.843
9	9 161101J1_11_P1_E1	100	5.33	7.51e3	1.15e3	102	2.3	0.813

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Compound name: 13C3-PFBA

Response Factor: 0.870006

RRF SD: 0.0531649, Relative SD: 6.11086

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	2.13	1.11e4	1.36e4	11.8	-5.7	0.820
2	2 161101J1_04_P1_...	12.5	2.13	1.00e4	1.25e4	11.5	-8.3	0.798
3	3 161101J1_05_P1_...	12.5	2.13	1.35e4	1.52e4	12.7	1.6	0.884
4	4 161101J1_06_P1_...	12.5	2.13	1.46e4	1.68e4	12.5	-0.2	0.868
5	5 161101J1_07_P1_...	12.5	2.13	1.43e4	1.67e4	12.3	-2.0	0.853
6	6 161101J1_08_P1_...	12.5	2.13	9.57e3	9.66e3	14.2	13.8	0.990
7	7 161101J1_09_P1_...	12.5	2.13	1.40e4	1.60e4	12.6	0.9	0.878
8	8 161101J1_10_P1_...	12.5	2.13	1.32e4	1.51e4	12.5	0.4	0.873
9	9 161101J1_11_P1_E1	12.5	2.13	1.26e4	1.46e4	12.4	-0.5	0.865

Compound name: 13C3-PFPeA

Response Factor: 0.936912

RRF SD: 0.0894592, Relative SD: 9.54831

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	3.24	1.19e4	1.37e4	11.5	-7.9	0.863
2	2 161101J1_04_P1_...	12.5	3.25	1.08e4	1.31e4	11.0	-12.1	0.824
3	3 161101J1_05_P1_...	12.5	3.24	1.48e4	1.62e4	12.2	-2.7	0.912
4	4 161101J1_06_P1_...	12.5	3.24	1.56e4	1.70e4	12.3	-1.9	0.919
5	5 161101J1_07_P1_...	12.5	3.24	1.57e4	1.66e4	12.5	0.3	0.940
6	6 161101J1_08_P1_...	12.5	3.24	1.07e4	9.30e3	15.3	22.5	1.15
7	7 161101J1_09_P1_...	12.5	3.24	1.53e4	1.61e4	12.7	1.4	0.950
8	8 161101J1_10_P1_...	12.5	3.24	1.42e4	1.50e4	12.6	1.2	0.948
9	9 161101J1_11_P1_E1	12.5	3.24	1.34e4	1.44e4	12.4	-0.9	0.929

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: 13C3-PFBS

Response Factor: 0.549204

RRF SD: 0.0333217, Relative SD: 6.06727

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	3.51	7.47e3	1.37e4	12.4	-1.0	0.544
2	2 161101J1_04_P1_...	12.5	3.52	6.55e3	1.31e4	11.4	-8.8	0.501
3	3 161101J1_05_P1_...	12.5	3.51	8.33e3	1.62e4	11.7	-6.6	0.513
4	4 161101J1_06_P1_...	12.5	3.52	9.33e3	1.70e4	12.5	-0.1	0.549
5	5 161101J1_07_P1_...	12.5	3.52	9.51e3	1.66e4	13.0	4.0	0.571
6	6 161101J1_08_P1_...	12.5	3.51	5.68e3	9.30e3	13.9	11.2	0.611
7	7 161101J1_09_P1_...	12.5	3.52	9.22e3	1.61e4	13.1	4.6	0.574
8	8 161101J1_10_P1_...	12.5	3.51	8.20e3	1.50e4	12.5	-0.3	0.547
9	9 161101J1_11_P1_E1	12.5	3.52	7.68e3	1.44e4	12.1	-3.0	0.533

Compound name: 13C2-PFHxA

Response Factor: 0.896658

RRF SD: 0.0669791, Relative SD: 7.46987

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	5.00	3.89	4.62e3	1.37e4	4.68	-6.3	0.840
2	2 161101J1_04_P1_...	5.00	3.89	4.10e3	1.31e4	4.37	-12.6	0.784
3	3 161101J1_05_P1_...	5.00	3.88	5.83e3	1.62e4	5.00	0.0	0.897
4	4 161101J1_06_P1_...	5.00	3.89	6.12e3	1.70e4	5.02	0.4	0.900
5	5 161101J1_07_P1_...	5.00	3.89	6.07e3	1.66e4	5.08	1.6	0.911
6	6 161101J1_08_P1_...	5.00	3.88	3.85e3	9.30e3	5.78	15.6	1.04
7	7 161101J1_09_P1_...	5.00	3.89	5.73e3	1.61e4	4.97	-0.6	0.892
8	8 161101J1_10_P1_...	5.00	3.88	5.44e3	1.50e4	5.07	1.3	0.908
9	9 161101J1_11_P1_E1	5.00	3.89	5.20e3	1.44e4	5.03	0.6	0.902

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: 13C4-PFHpA

Response Factor: 0.793857

RRF SD: 0.049842, Relative SD: 6.27846

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	4.38	1.05e4	1.37e4	12.0	-3.8	0.763
2	2 161101J1_04_P1_...	12.5	4.37	9.01e3	1.31e4	10.9	-13.1	0.690
3	3 161101J1_05_P1_...	12.5	4.37	1.24e4	1.62e4	12.0	-4.0	0.762
4	4 161101J1_06_P1_...	12.5	4.38	1.36e4	1.70e4	12.6	0.5	0.797
5	5 161101J1_07_P1_...	12.5	4.38	1.32e4	1.66e4	12.5	0.1	0.794
6	6 161101J1_08_P1_...	12.5	4.36	7.63e3	9.30e3	12.9	3.4	0.821
7	7 161101J1_09_P1_...	12.5	4.38	1.33e4	1.61e4	13.1	4.4	0.829
8	8 161101J1_10_P1_...	12.5	4.37	1.27e4	1.50e4	13.3	6.5	0.845
9	9 161101J1_11_P1_E1	12.5	4.37	1.21e4	1.44e4	13.3	6.2	0.843

Compound name: 18O2-PFHxS

Response Factor: 0.283625

RRF SD: 0.0162565, Relative SD: 5.73168

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	4.48	1.75e3	6.15e3	12.6	0.5	0.285
2	2 161101J1_04_P1_...	12.5	4.48	1.51e3	5.72e3	11.6	-7.0	0.264
3	3 161101J1_05_P1_...	12.5	4.47	1.87e3	7.06e3	11.7	-6.6	0.265
4	4 161101J1_06_P1_...	12.5	4.49	2.13e3	7.47e3	12.6	0.5	0.285
5	5 161101J1_07_P1_...	12.5	4.49	2.12e3	7.52e3	12.4	-0.6	0.282
6	6 161101J1_08_P1_...	12.5	4.47	1.22e3	3.95e3	13.6	9.1	0.309
7	7 161101J1_09_P1_...	12.5	4.49	2.01e3	6.89e3	12.9	3.0	0.292
8	8 161101J1_10_P1_...	12.5	4.48	1.95e3	6.46e3	13.3	6.7	0.303
9	9 161101J1_11_P1_E1	12.5	4.48	1.71e3	6.41e3	11.8	-5.6	0.268

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Compound name: 13C2-6:2 FTS

Response Factor: 0.279517

RRF SD: 0.0357095, Relative SD: 12.7754

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	4.71	2.56e3	1.03e4	11.2	-10.7	0.250
2	2 161101J1_04_P1_...	12.5	4.71	2.30e3	9.57e3	10.7	-14.2	0.240
3	3 161101J1_05_P1_...	12.5	4.72	3.20e3	1.21e4	11.8	-5.6	0.264
4	4 161101J1_06_P1_...	12.5	4.72	3.59e3	1.42e4	11.3	-9.7	0.252
5	5 161101J1_07_P1_...	12.5	4.72	3.51e3	1.44e4	10.9	-12.5	0.244
6	6 161101J1_08_P1_...	12.5	4.71	2.06e3	6.56e3	14.1	12.5	0.314
7	7 161101J1_09_P1_...	12.5	4.72	3.89e3	1.20e4	14.5	16.0	0.324
8	8 161101J1_10_P1_...	12.5	4.72	3.89e3	1.24e4	14.1	12.5	0.315
9	9 161101J1_11_P1_E1	12.5	4.71	3.71e3	1.19e4	14.0	11.8	0.313

Compound name: 13C2-PFOA

Response Factor: 0.809031

RRF SD: 0.0961504, Relative SD: 11.8846

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	4.76	7.17e3	1.03e4	10.8	-13.6	0.699
2	2 161101J1_04_P1_...	12.5	4.75	6.72e3	9.57e3	10.9	-13.2	0.702
3	3 161101J1_05_P1_...	12.5	4.76	9.60e3	1.21e4	12.2	-2.3	0.791
4	4 161101J1_06_P1_...	12.5	4.76	1.07e4	1.42e4	11.6	-7.1	0.751
5	5 161101J1_07_P1_...	12.5	4.77	1.05e4	1.44e4	11.2	-10.1	0.727
6	6 161101J1_08_P1_...	12.5	4.76	6.28e3	6.56e3	14.8	18.5	0.958
7	7 161101J1_09_P1_...	12.5	4.76	1.08e4	1.20e4	13.9	11.5	0.902
8	8 161101J1_10_P1_...	12.5	4.76	1.06e4	1.24e4	13.3	6.4	0.860
9	9 161101J1_11_P1_E1	12.5	4.75	1.06e4	1.19e4	13.8	10.0	0.890

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Compound name: 13C5-PFNA

Response Factor: 1.02033

RRF SD: 0.0720135, Relative SD: 7.05788

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	5.07	7.05e3	7.58e3	11.4	-8.9	0.929
2	2 161101J1_04_P1_...	12.5	5.08	6.73e3	7.04e3	11.7	-6.3	0.956
3	3 161101J1_05_P1_...	12.5	5.08	8.57e3	8.45e3	12.4	-0.6	1.01
4	4 161101J1_06_P1_...	12.5	5.09	9.15e3	8.43e3	13.3	6.4	1.09
5	5 161101J1_07_P1_...	12.5	5.09	9.05e3	8.36e3	13.3	6.1	1.08
6	6 161101J1_08_P1_...	12.5	5.09	4.94e3	4.32e3	14.0	12.2	1.14
7	7 161101J1_09_P1_...	12.5	5.07	8.87e3	9.22e3	11.8	-5.7	0.962
8	8 161101J1_10_P1_...	12.5	5.09	8.40e3	8.62e3	11.9	-4.4	0.975
9	9 161101J1_11_P1_E1	12.5	5.08	9.22e3	8.92e3	12.7	1.3	1.03

Compound name: 13C8-PFOS

Response Factor: 0.946891

RRF SD: 0.0674557, Relative SD: 7.12391

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	5.13	4.72e3	4.84e3	12.9	2.8	0.974
2	2 161101J1_04_P1_...	12.5	5.14	4.19e3	4.55e3	12.1	-2.9	0.920
3	3 161101J1_05_P1_...	12.5	5.14	2.93e3	3.56e3	10.9	-13.0	0.824
4	4 161101J1_06_P1_...	12.5	5.14	3.39e3	3.76e3	11.9	-4.7	0.902
5	5 161101J1_07_P1_...	12.5	5.14	3.80e3	4.30e3	11.7	-6.7	0.883
6	6 161101J1_08_P1_...	12.5	5.15	2.57e3	2.53e3	13.4	7.3	1.02
7	7 161101J1_09_P1_...	12.5	5.13	4.33e3	4.37e3	13.1	4.7	0.991
8	8 161101J1_10_P1_...	12.5	5.14	4.25e3	4.23e3	13.3	6.1	1.00
9	9 161101J1_11_P1_E1	12.5	5.14	4.39e3	4.36e3	13.3	6.4	1.01

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Compound name: 13C2-PFDA

Response Factor: 0.880594

RRF SD: 0.0411679, Relative SD: 4.67501

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	5.34	4.58e3	5.53e3	11.8	-6.0	0.828
2	2 161101J1_04_P1_...	12.5	5.36	4.33e3	4.95e3	12.4	-0.7	0.874
3	3 161101J1_05_P1_...	12.5	5.36	3.42e3	3.72e3	13.1	4.5	0.920
4	4 161101J1_06_P1_...	12.5	5.37	3.07e3	3.51e3	12.4	-0.8	0.873
5	5 161101J1_07_P1_...	12.5	5.36	3.41e3	3.91e3	12.4	-1.2	0.870
6	6 161101J1_08_P1_...	12.5	5.37	2.17e3	2.62e3	11.8	-5.9	0.829
7	7 161101J1_09_P1_...	12.5	5.35	4.31e3	4.51e3	13.6	8.5	0.955
8	8 161101J1_10_P1_...	12.5	5.37	4.31e3	4.76e3	12.9	2.9	0.906
9	9 161101J1_11_P1_E1	12.5	5.36	4.52e3	5.20e3	12.3	-1.3	0.869

Compound name: 13C2-8:2 FTS

Response Factor: 0.250614

RRF SD: 0.0285289, Relative SD: 11.3836

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	5.32	1.23e3	5.53e3	11.1	-11.5	0.222
2	2 161101J1_04_P1_...	12.5	5.34	1.12e3	4.95e3	11.3	-9.7	0.226
3	3 161101J1_05_P1_...	12.5	5.34	1.16e3	3.72e3	15.6	24.8	0.313
4	4 161101J1_06_P1_...	12.5	5.34	9.18e2	3.51e3	13.0	4.4	0.262
5	5 161101J1_07_P1_...	12.5	5.34	1.02e3	3.91e3	13.0	4.4	0.262
6	6 161101J1_08_P1_...	12.5	5.35	6.73e2	2.62e3	12.8	2.4	0.257
7	7 161101J1_09_P1_...	12.5	5.33	1.08e3	4.51e3	12.0	-4.1	0.240
8	8 161101J1_10_P1_...	12.5	5.34	1.20e3	4.76e3	12.6	0.7	0.252
9	9 161101J1_11_P1_E1	12.5	5.33	1.15e3	5.20e3	11.1	-11.5	0.222

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	2.12	1.36e4	1.36e4	12.5	0.0	1.00
2	2 161101J1_04_P1_...	12.5	2.13	1.25e4	1.25e4	12.5	0.0	1.00
3	3 161101J1_05_P1_...	12.5	2.12	1.52e4	1.52e4	12.5	0.0	1.00
4	4 161101J1_06_P1_...	12.5	2.13	1.68e4	1.68e4	12.5	0.0	1.00
5	5 161101J1_07_P1_...	12.5	2.13	1.67e4	1.67e4	12.5	0.0	1.00
6	6 161101J1_08_P1_...	12.5	2.13	9.66e3	9.66e3	12.5	0.0	1.00
7	7 161101J1_09_P1_...	12.5	2.13	1.60e4	1.60e4	12.5	0.0	1.00
8	8 161101J1_10_P1_...	12.5	2.13	1.51e4	1.51e4	12.5	0.0	1.00
9	9 161101J1_11_P1_E1	12.5	2.13	1.46e4	1.46e4	12.5	0.0	1.00

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	3.88	1.37e4	1.37e4	12.5	0.0	1.00
2	2 161101J1_04_P1_...	12.5	3.88	1.31e4	1.31e4	12.5	0.0	1.00
3	3 161101J1_05_P1_...	12.5	3.88	1.62e4	1.62e4	12.5	0.0	1.00
4	4 161101J1_06_P1_...	12.5	3.89	1.70e4	1.70e4	12.5	0.0	1.00
5	5 161101J1_07_P1_...	12.5	3.89	1.66e4	1.66e4	12.5	0.0	1.00
6	6 161101J1_08_P1_...	12.5	3.88	9.30e3	9.30e3	12.5	0.0	1.00
7	7 161101J1_09_P1_...	12.5	3.89	1.61e4	1.61e4	12.5	0.0	1.00
8	8 161101J1_10_P1_...	12.5	3.88	1.50e4	1.50e4	12.5	0.0	1.00
9	9 161101J1_11_P1_E1	12.5	3.89	1.44e4	1.44e4	12.5	0.0	1.00

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	4.48	6.15e3	6.15e3	12.5	0.0	1.00
2	2 161101J1_04_P1_...	12.5	4.48	5.72e3	5.72e3	12.5	0.0	1.00
3	3 161101J1_05_P1_...	12.5	4.47	7.06e3	7.06e3	12.5	0.0	1.00
4	4 161101J1_06_P1_...	12.5	4.49	7.47e3	7.47e3	12.5	0.0	1.00
5	5 161101J1_07_P1_...	12.5	4.49	7.52e3	7.52e3	12.5	0.0	1.00
6	6 161101J1_08_P1_...	12.5	4.47	3.95e3	3.95e3	12.5	0.0	1.00
7	7 161101J1_09_P1_...	12.5	4.49	6.89e3	6.89e3	12.5	0.0	1.00
8	8 161101J1_10_P1_...	12.5	4.48	6.46e3	6.46e3	12.5	0.0	1.00
9	9 161101J1_11_P1_E1	12.5	4.48	6.41e3	6.41e3	12.5	0.0	1.00

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	4.76	1.03e4	1.03e4	12.5	0.0	1.00
2	2 161101J1_04_P1_...	12.5	4.75	9.57e3	9.57e3	12.5	0.0	1.00
3	3 161101J1_05_P1_...	12.5	4.76	1.21e4	1.21e4	12.5	0.0	1.00
4	4 161101J1_06_P1_...	12.5	4.76	1.42e4	1.42e4	12.5	0.0	1.00
5	5 161101J1_07_P1_...	12.5	4.77	1.44e4	1.44e4	12.5	0.0	1.00
6	6 161101J1_08_P1_...	12.5	4.75	6.56e3	6.56e3	12.5	0.0	1.00
7	7 161101J1_09_P1_...	12.5	4.76	1.20e4	1.20e4	12.5	0.0	1.00
8	8 161101J1_10_P1_...	12.5	4.76	1.24e4	1.24e4	12.5	0.0	1.00
9	9 161101J1_11_P1_E1	12.5	4.75	1.19e4	1.19e4	12.5	0.0	1.00

Vista Analytical Laboratory Q2

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	5.13	4.84e3	4.84e3	12.5	0.0	1.00
2	2 161101J1_04_P1_...	12.5	5.13	4.55e3	4.55e3	12.5	0.0	1.00
3	3 161101J1_05_P1_...	12.5	5.14	3.56e3	3.56e3	12.5	0.0	1.00
4	4 161101J1_06_P1_...	12.5	5.14	3.76e3	3.76e3	12.5	0.0	1.00
5	5 161101J1_07_P1_...	12.5	5.14	4.30e3	4.30e3	12.5	0.0	1.00
6	6 161101J1_08_P1_...	12.5	5.15	2.53e3	2.53e3	12.5	0.0	1.00
7	7 161101J1_09_P1_...	12.5	5.12	4.37e3	4.37e3	12.5	0.0	1.00
8	8 161101J1_10_P1_...	12.5	5.14	4.23e3	4.23e3	12.5	0.0	1.00
9	9 161101J1_11_P1_E1	12.5	5.13	4.36e3	4.36e3	12.5	0.0	1.00

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	5.07	7.58e3	7.58e3	12.5	0.0	1.00
2	2 161101J1_04_P1_...	12.5	5.08	7.04e3	7.04e3	12.5	0.0	1.00
3	3 161101J1_05_P1_...	12.5	5.09	8.45e3	8.45e3	12.5	0.0	1.00
4	4 161101J1_06_P1_...	12.5	5.09	8.43e3	8.43e3	12.5	0.0	1.00
5	5 161101J1_07_P1_...	12.5	5.09	8.36e3	8.36e3	12.5	0.0	1.00
6	6 161101J1_08_P1_...	12.5	5.09	4.32e3	4.32e3	12.5	0.0	1.00
7	7 161101J1_09_P1_...	12.5	5.07	9.22e3	9.22e3	12.5	0.0	1.00
8	8 161101J1_10_P1_...	12.5	5.09	8.62e3	8.62e3	12.5	0.0	1.00
9	9 161101J1_11_P1_E1	12.5	5.08	8.92e3	8.92e3	12.5	0.0	1.00

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	12.5	5.34	5.53e3	5.53e3	12.5	0.0	1.00
2	2 161101J1_04_P1_...	12.5	5.35	4.95e3	4.95e3	12.5	0.0	1.00
3	3 161101J1_05_P1_...	12.5	5.36	3.72e3	3.72e3	12.5	0.0	1.00
4	4 161101J1_06_P1_...	12.5	5.37	3.51e3	3.51e3	12.5	0.0	1.00
5	5 161101J1_07_P1_...	12.5	5.36	3.91e3	3.91e3	12.5	0.0	1.00
6	6 161101J1_08_P1_...	12.5	5.36	2.62e3	2.62e3	12.5	0.0	1.00
7	7 161101J1_09_P1_...	12.5	5.35	4.51e3	4.51e3	12.5	0.0	1.00
8	8 161101J1_10_P1_...	12.5	5.37	4.76e3	4.76e3	12.5	0.0	1.00
9	9 161101J1_11_P1_E1	12.5	5.35	5.20e3	5.20e3	12.5	0.0	1.00

Compound name: Total PFBS

Correlation coefficient: $r = 0.999412$, $r^2 = 0.998825$

Calibration curve: $0.793166 * x + 0.0450955$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

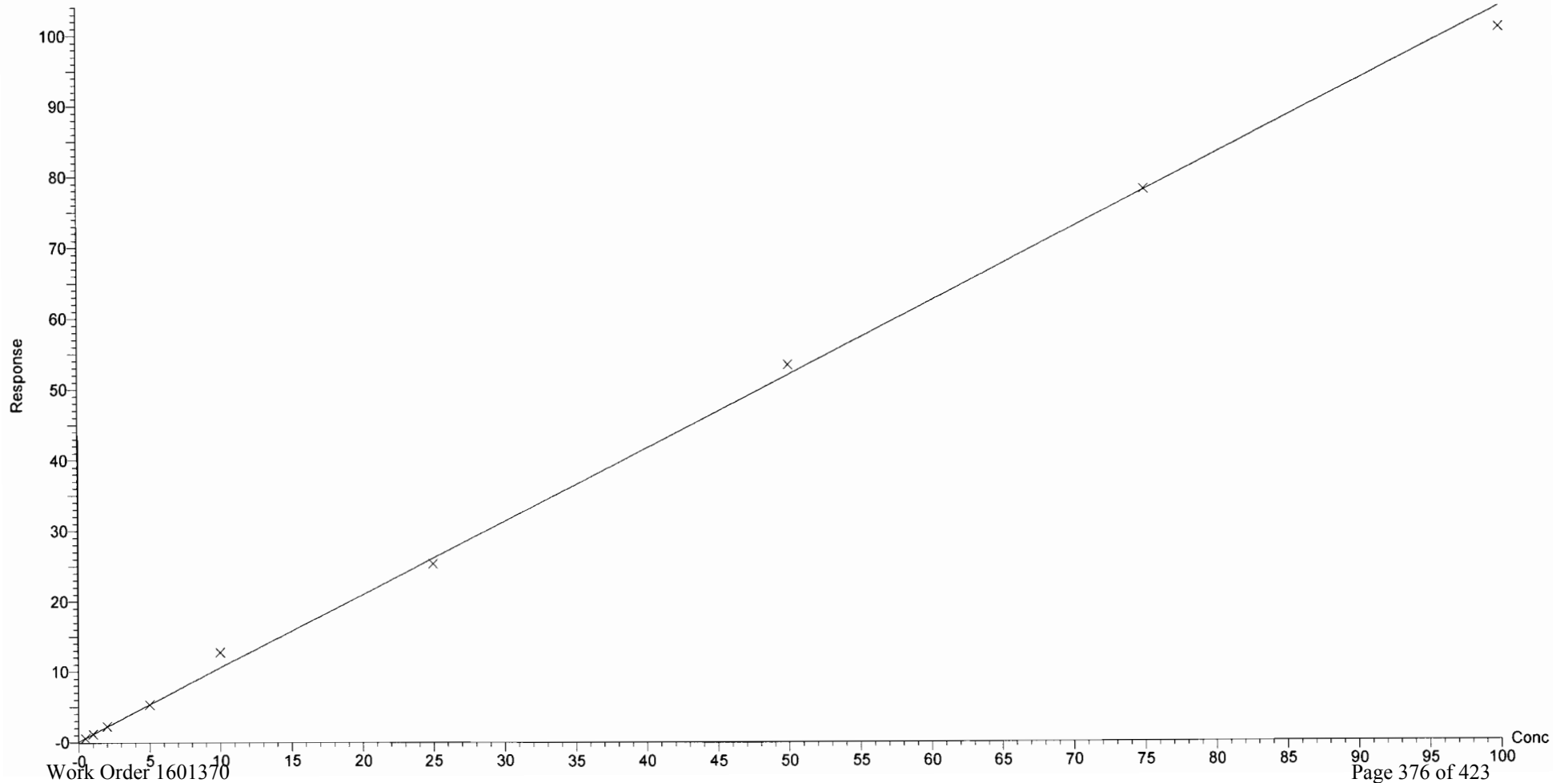
#	Name	Std. Conc	RT	Resp	IS Resp	Conc.	%Dev	RRF
1	1 161101J1_03_P1_...	0.500			7.47e3	0.428		
2	2 161101J1_04_P1_...	1.00			6.55e3	1.06		
3	3 161101J1_05_P1_...	2.00			8.33e3	2.22		
4	4 161101J1_06_P1_...	5.00			9.33e3	4.82		
5	5 161101J1_07_P1_...	10.0			9.51e3	11.5		
6	6 161101J1_08_P1_...	25.0			5.68e3	24.5		
7	7 161101J1_09_P1_...	50.0			9.22e3	50.1		
8	8 161101J1_10_P1_...	75.0			8.20e3	75.0		
9	9 161101J1_11_P1_E1	100			7.68e3	98.9		

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 02 Nov 2016 09:14:04
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Compound name: PFBA
Correlation coefficient: $r = 0.998823$, $r^2 = 0.997647$
Calibration curve: $1.04067 * x + 0.0803852$
Response type: Internal Std (Ref 13), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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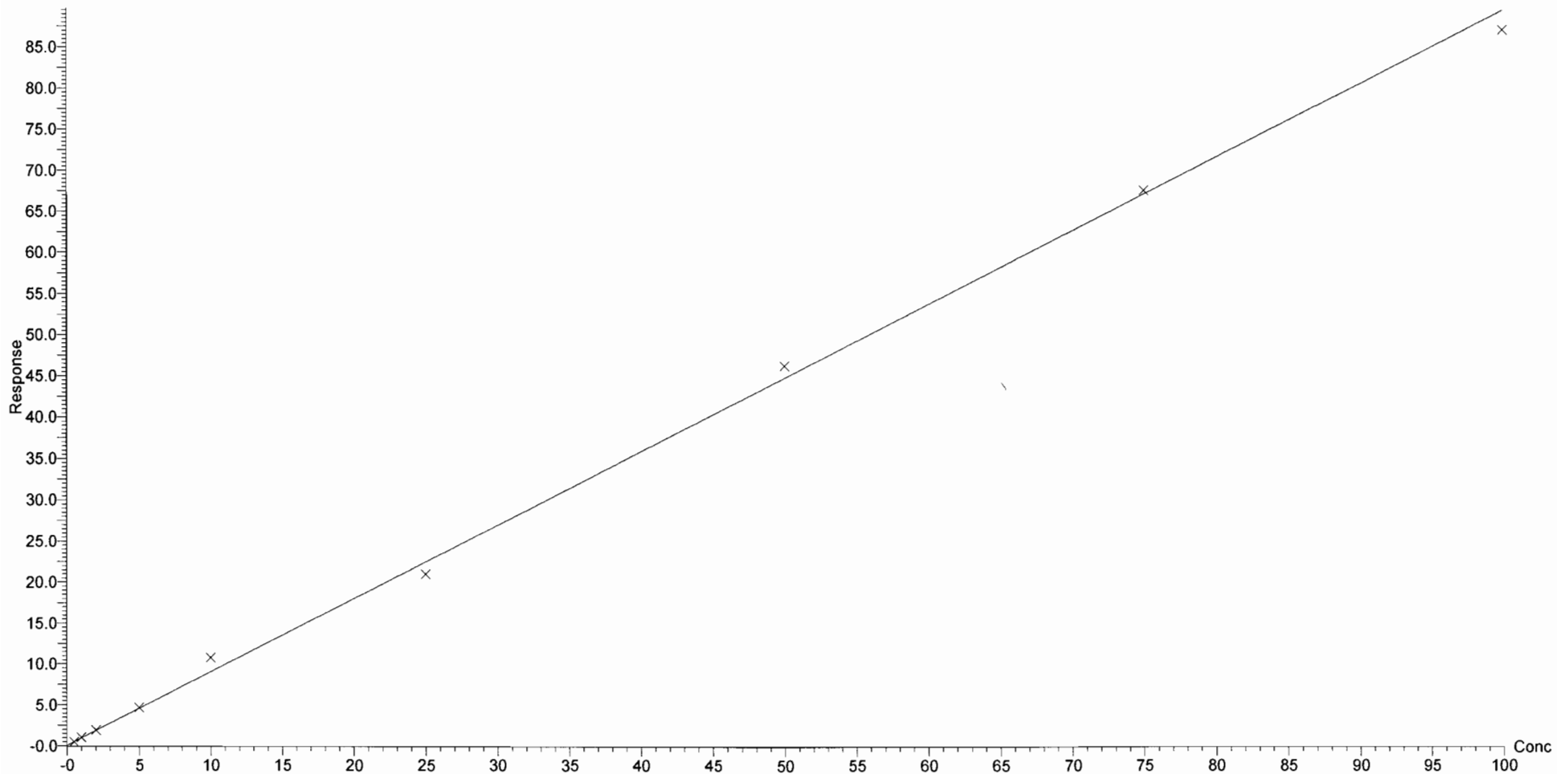
Compound name: PFPeA

Correlation coefficient: $r = 0.998730$, $r^2 = 0.997462$

Calibration curve: $0.89611 * x + 0.0760945$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

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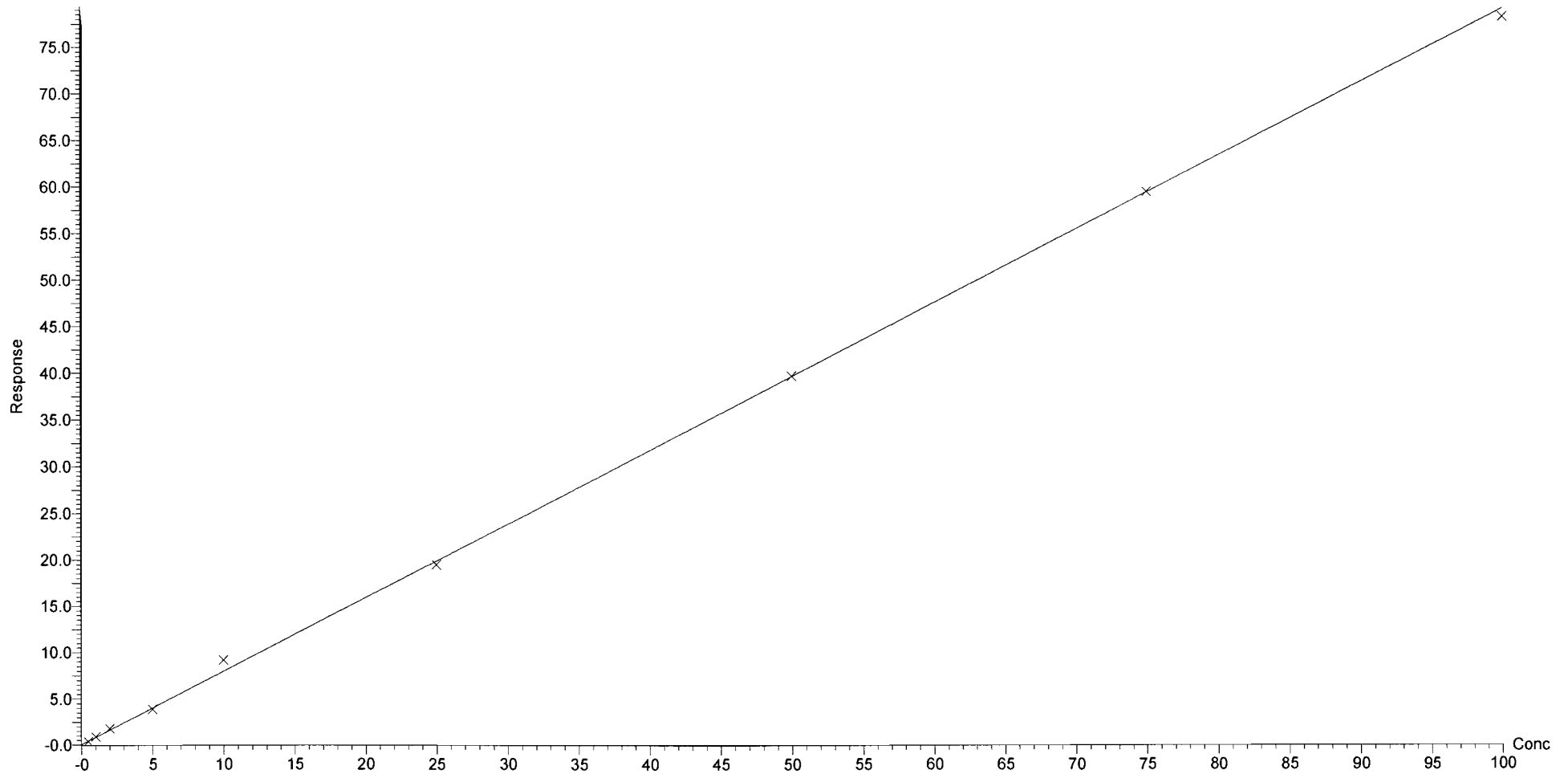
Compound name: PFBS

Correlation coefficient: $r = 0.999412$, $r^2 = 0.998825$

Calibration curve: $0.793166 * x + 0.0450955$

Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

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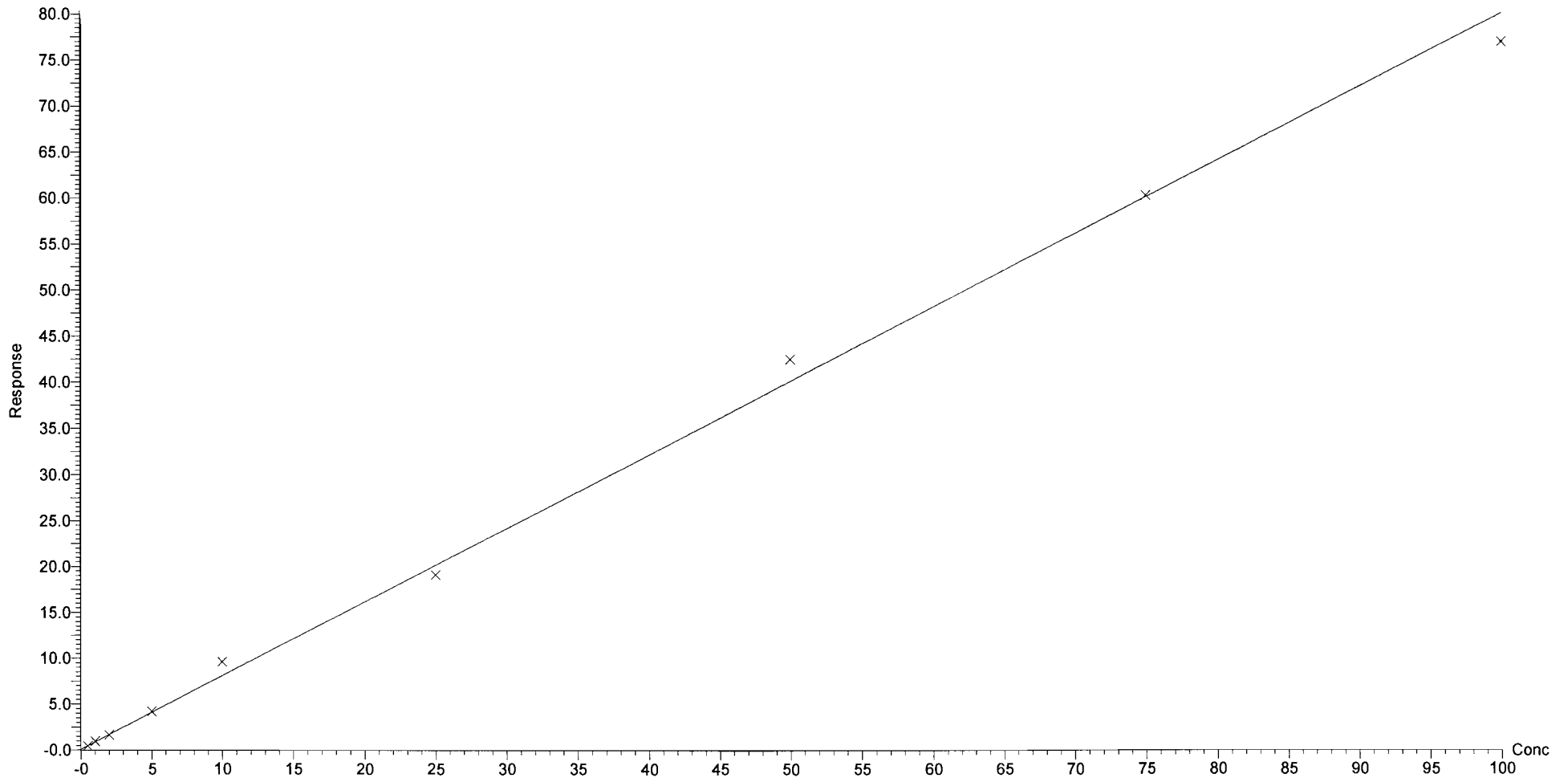
Compound name: PFHxA

Correlation coefficient: $r = 0.998472$, $r^2 = 0.996947$

Calibration curve: $0.802262 * x + 0.0712244$

Response type: Internal Std (Ref 16), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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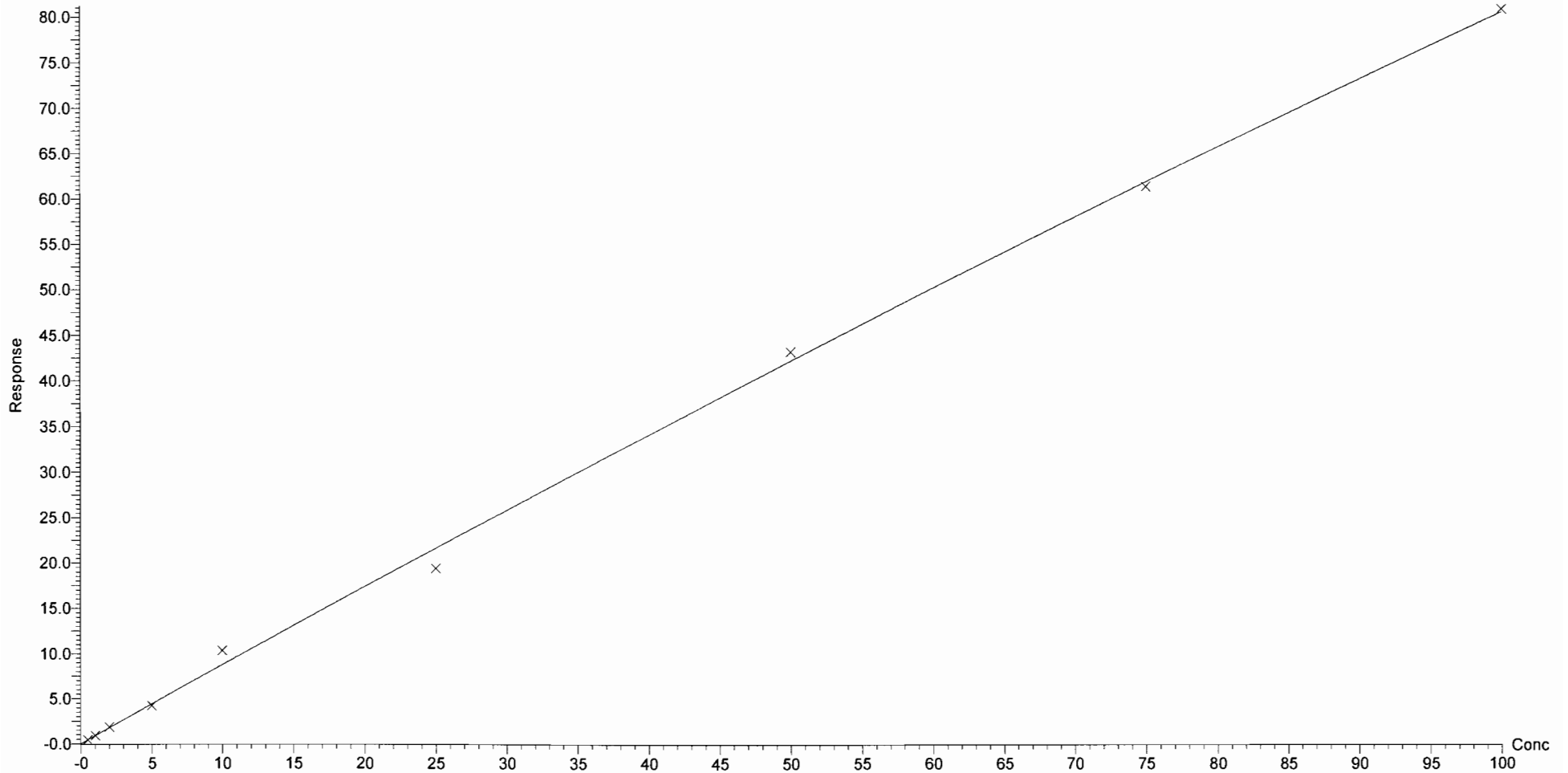
Compound name: PFHpA

Coefficient of Determination: $R^2 = 0.997259$

Calibration curve: $-0.000756003 * x^2 + 0.884449 * x + 0.0179122$

Response type: Internal Std (Ref 17), Area * (IS Conc. / IS Area)

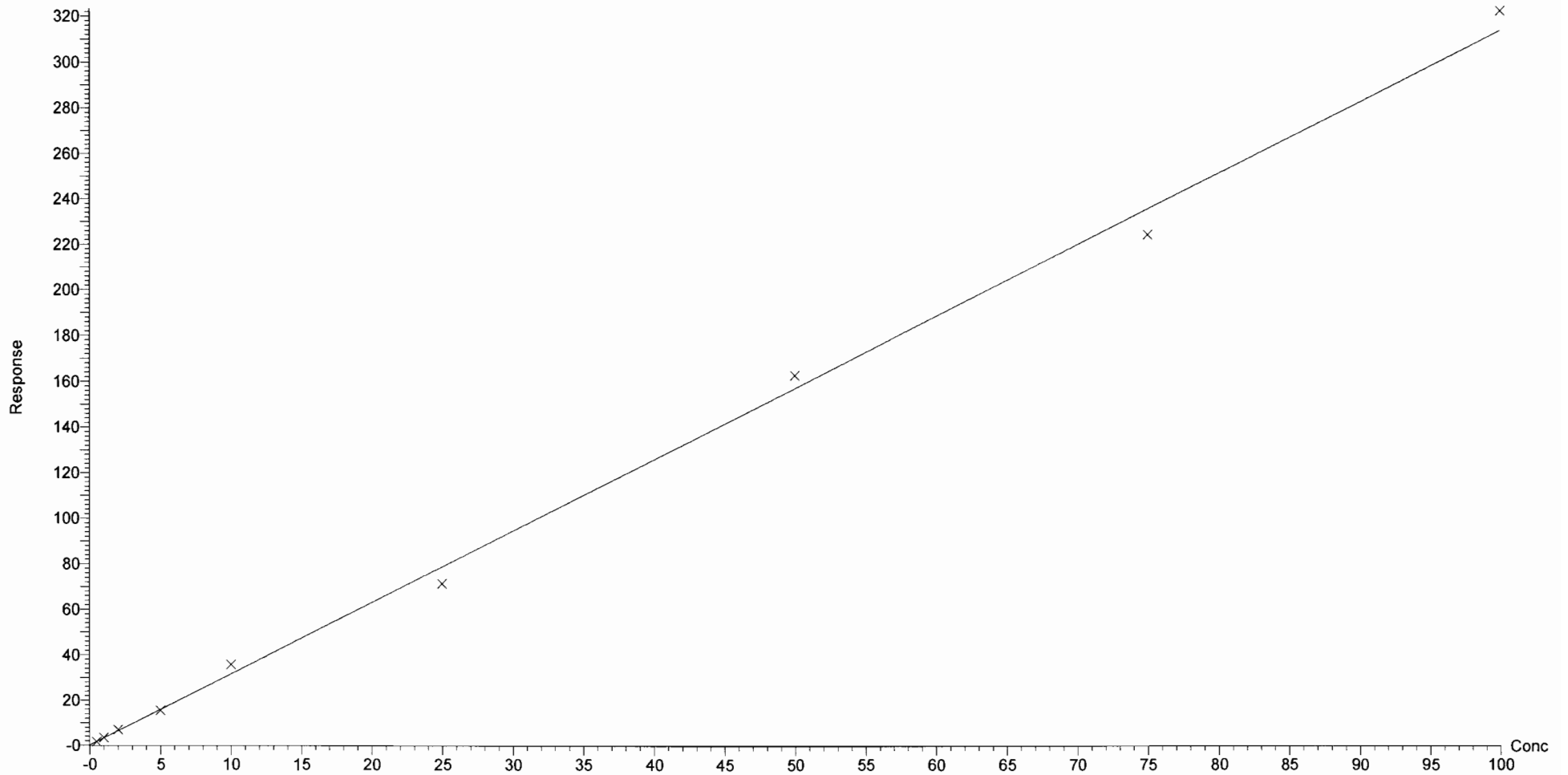
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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Compound name: PFHxS
Correlation coefficient: $r = 0.998567$, $r^2 = 0.997136$
Calibration curve: $3.14713 * x + 0.110952$
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: $1/x$, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

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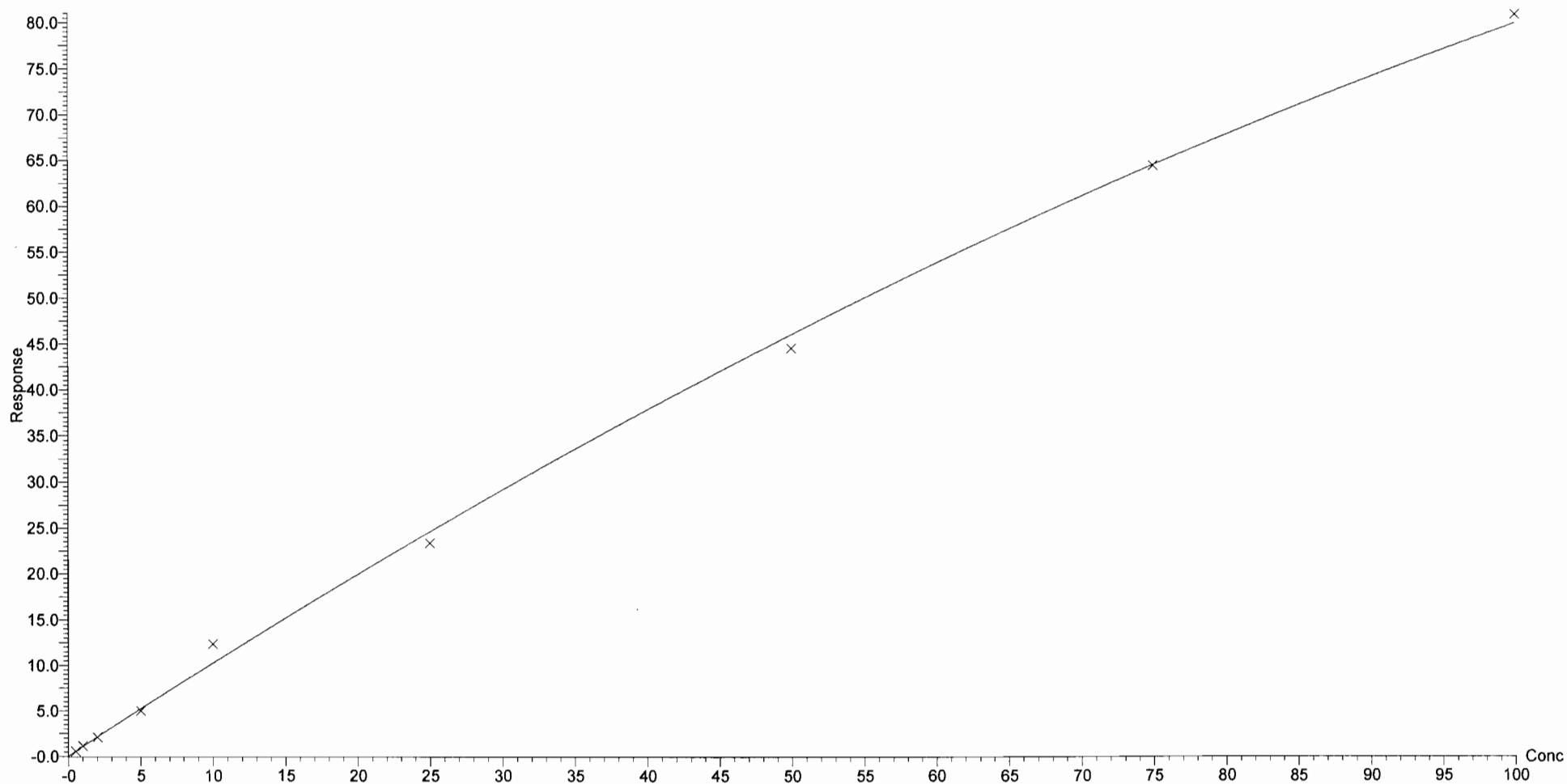
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.997002$

Calibration curve: $-0.00242186 * x^2 + 1.04274 * x + 0.0431906$

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

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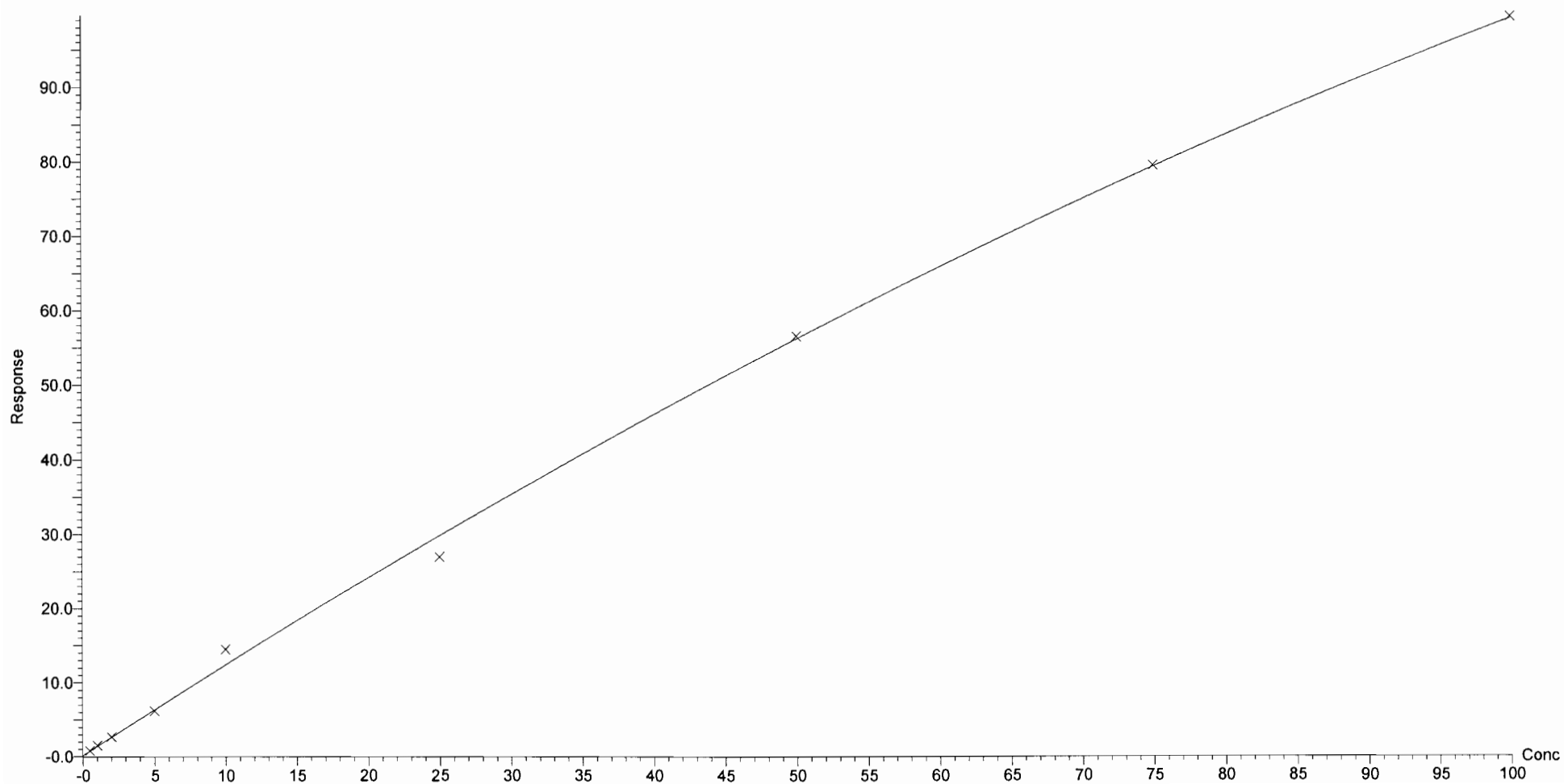
Compound name: PFOA

Coefficient of Determination: $R^2 = 0.997206$

Calibration curve: $-0.00258683 * x^2 + 1.25142 * x + 0.139702$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

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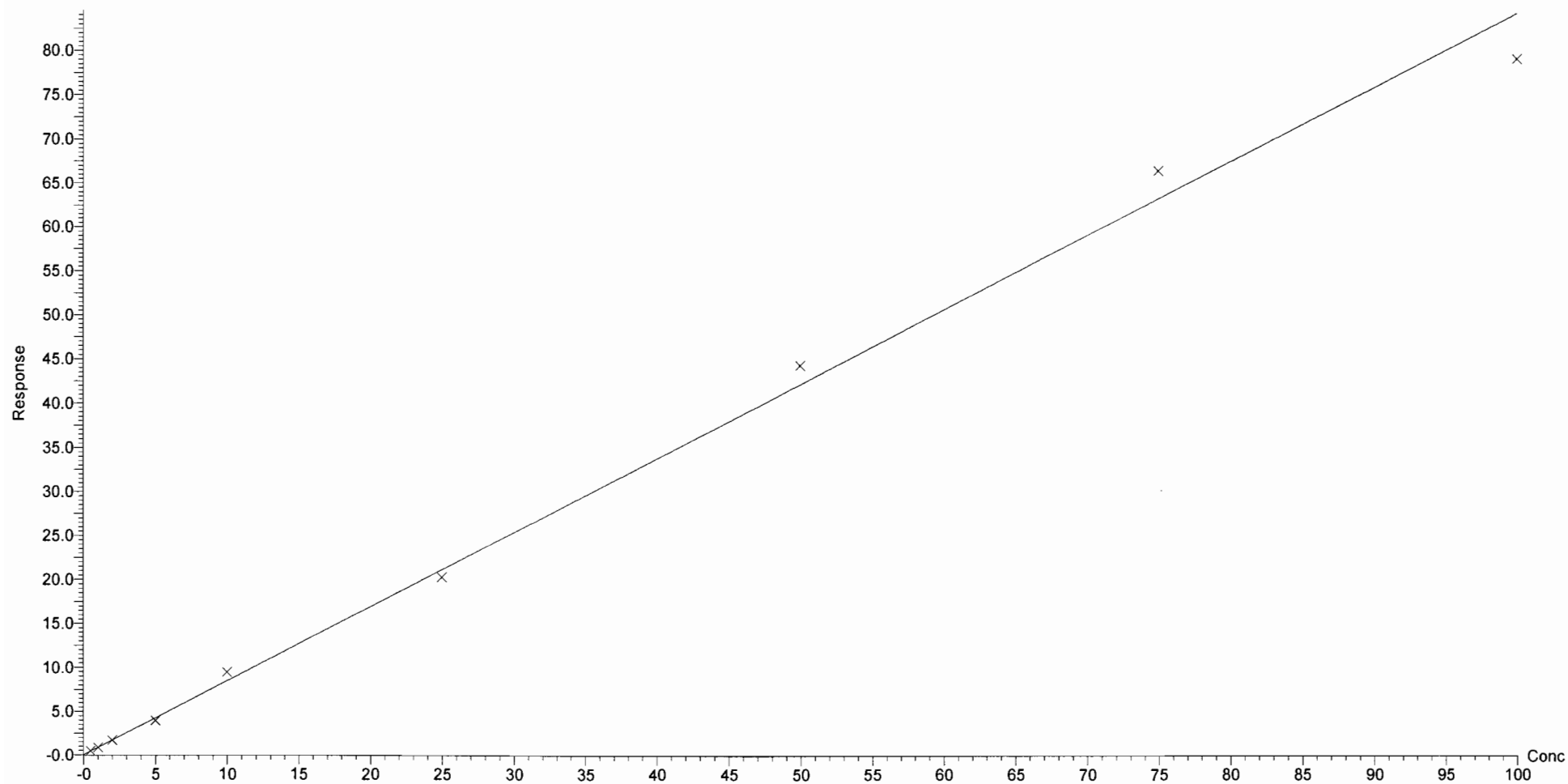
Compound name: PFNA

Correlation coefficient: $r = 0.998264$, $r^2 = 0.996531$

Calibration curve: $0.844718 * x + 0.0222147$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

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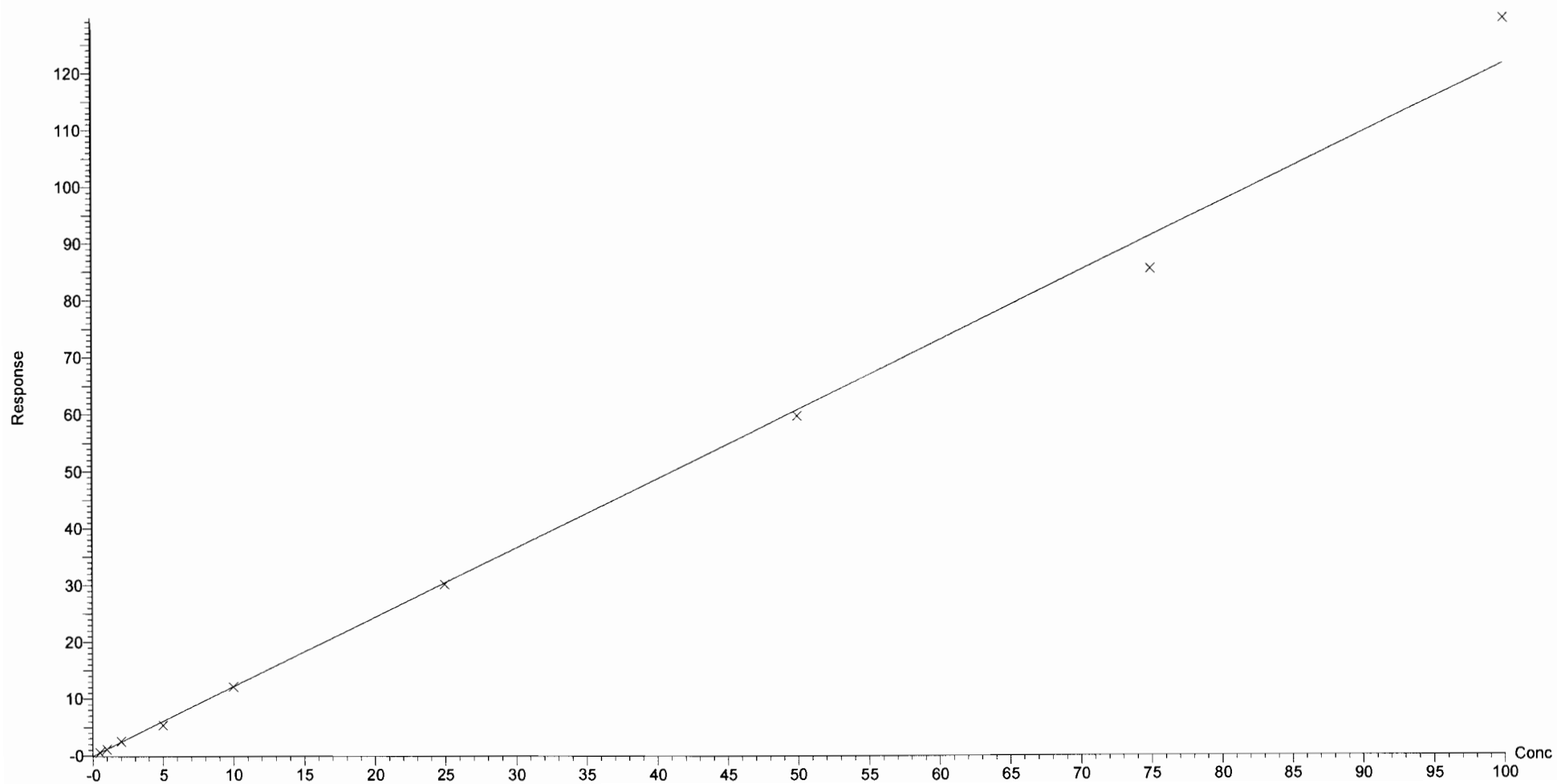
Compound name: PFOS

Correlation coefficient: $r = 0.998373$, $r^2 = 0.996749$

Calibration curve: $1.21863 * x + -0.0856808$

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

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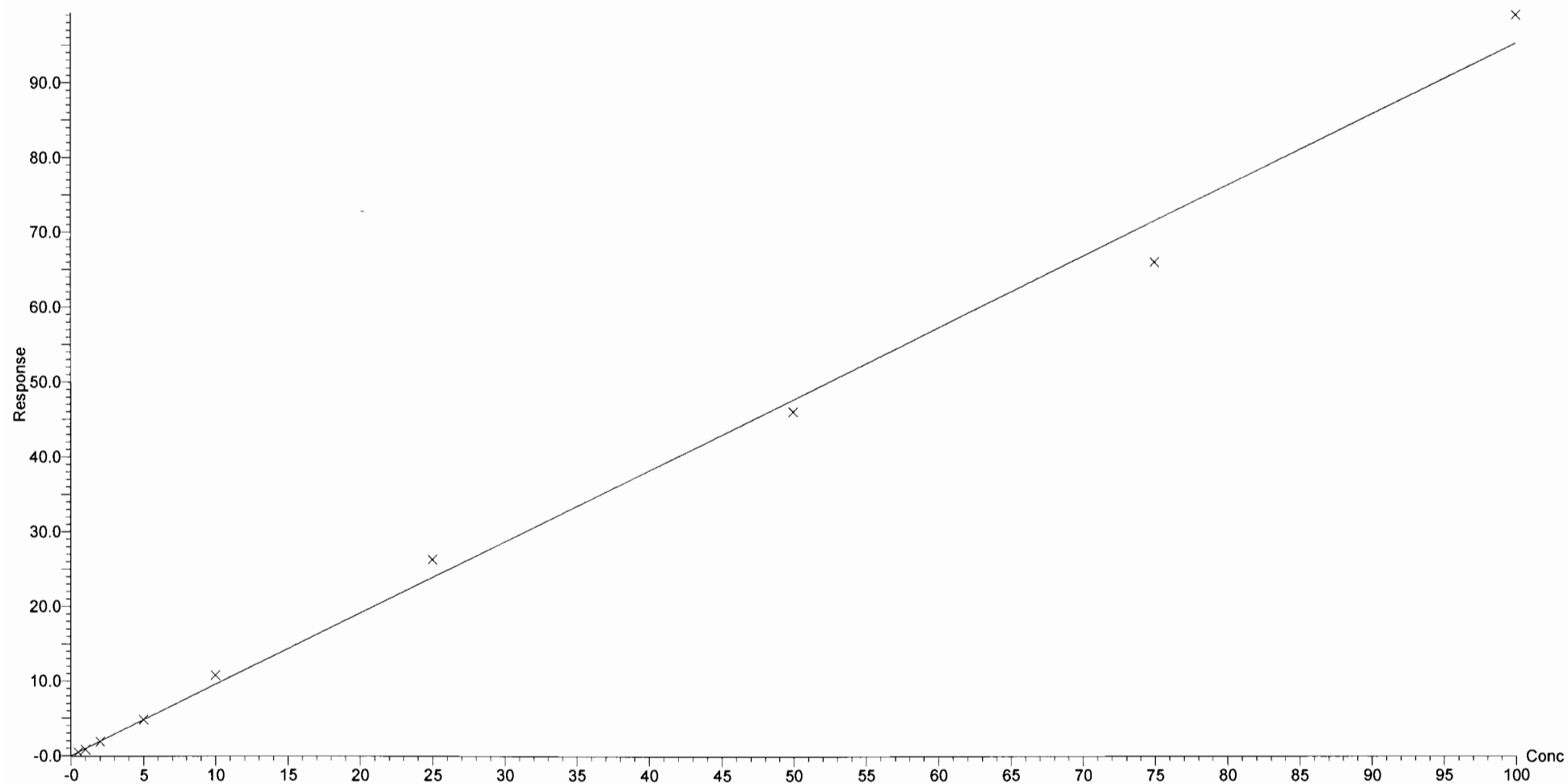
Compound name: PFDA

Correlation coefficient: $r = 0.997864$, $r^2 = 0.995732$

Calibration curve: $0.955963 * x + -0.00839706$

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:42:21 Pacific Daylight Time

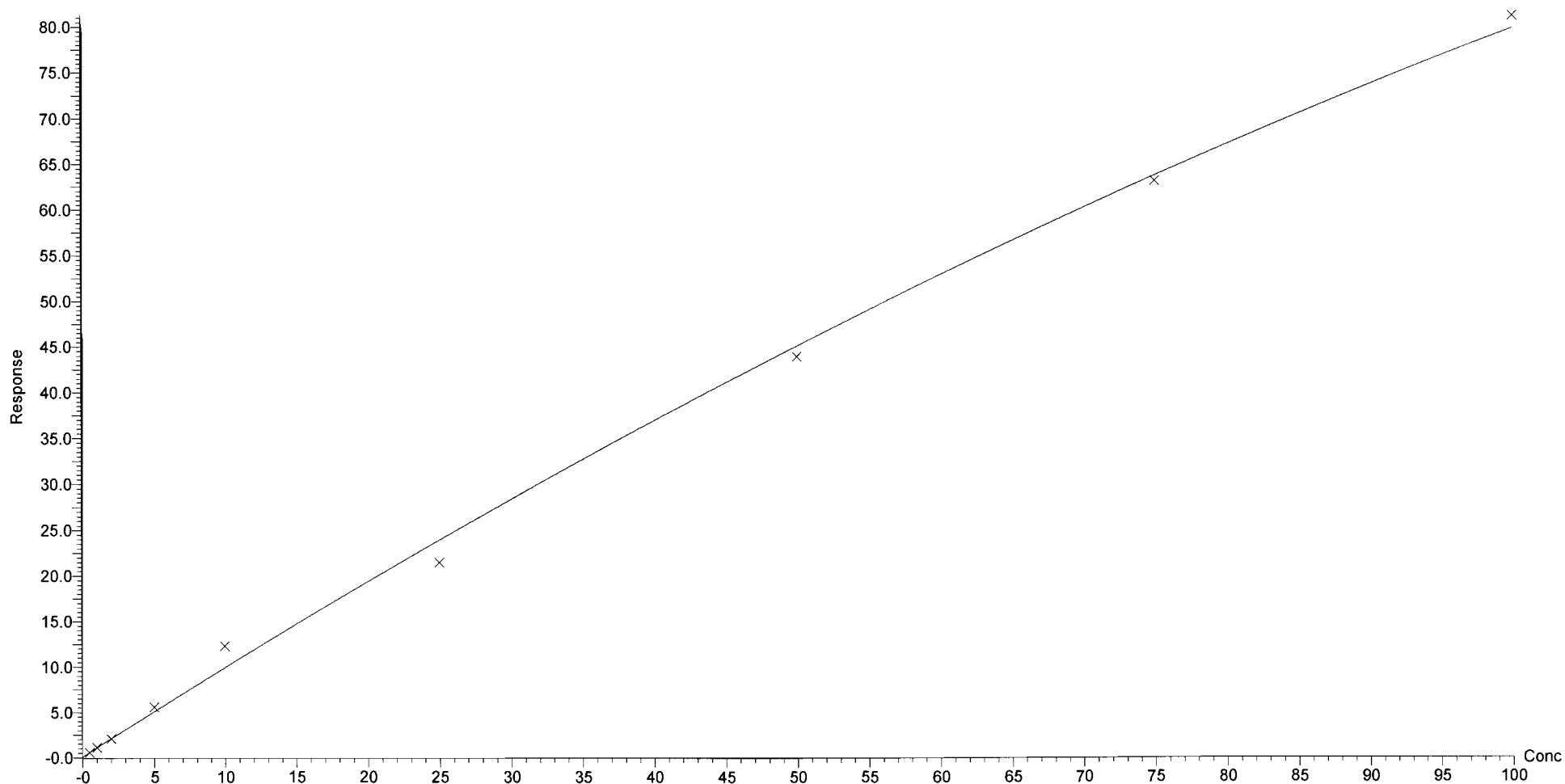
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.995172$

Calibration curve: $-0.00205731 * x^2 + 1.00441 * x + 0.0952414$

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161101J1_01	11/1/2016 15:36:40	IPA	IPA
2	161101J1_02	11/1/2016 15:48:55	ST161101J1-1 PFC CS(-2)16J3104	PFC CS(-2)16J3104
3	161101J1_03	11/1/2016 16:01:09	ST161101J1-2 PFC CS(-1)16J3105	PFC CS(-1)16J3105
4	161101J1_04	11/1/2016 16:13:22	ST161101J1-3 PFC CS0 16J3107	PFC CS0 16J3107
5	161101J1_05	11/1/2016 16:25:35	ST161101J1-4 PFC CS1 16J2706	PFC CS1 16J2706
6	161101J1_06	11/1/2016 16:37:49	ST161101J1-5 PFC CS2 16J2707	PFC CS2 16J2707
7	161101J1_07	11/1/2016 16:50:04	ST161101J1-6 PFC CS3 16J2708	PFC CS3 16J2708
8	161101J1_08	11/1/2016 17:02:17	ST161101J1-7 PFC C3.5 16K0105	PFC C3.5 16K0105
9	161101J1_09	11/1/2016 17:14:29	ST161101J1-8 PFC CS4 16J2709	PFC CS4 16J2709
10	161101J1_10	11/1/2016 17:26:46	ST161101J1-9 PFC CS4.5 16J2710	PFC CS4.5 16J2710
11	161101J1_11	11/1/2016 17:39:00	ST161101J1-10 PFC CS5 16J2711	PFC CS5 16J2711
12	161101J1_12	11/1/2016 17:51:12	IPA	IPA
13	161101J1_13	11/1/2016 18:03:31	(A) SS161101J1-1 PFC SSS 16J1810	PFC SSS 16J1810 A
14	161101J1_14	11/1/2016 18:15:46	IPA	IPA
15	161101J1_15	11/1/2016 18:28:01	B6J0198-BS1	OPR
16	161101J1_16	11/1/2016 18:40:14	IPA	IPA
17	161101J1_17	11/1/2016 18:52:30	B6J0198-BLK1	Method Blank
18	161101J1_18	11/1/2016 19:04:41	1601212-10RE2	LORNG-SDLT19-092016
19	161101J1_19	11/1/2016 19:16:57	1601212-18RE2	LORNG-SDLT18-092016
20	161101J1_20	11/1/2016 19:29:08	1601332-11RE1	EB2-WG-101916 0.13061
21	161101J1_21	11/1/2016 19:41:25	IPA	IPA
22	161101J1_22	11/1/2016 19:53:40	ST161101J1-11 PFC C3.5 16K0105	PFC C3.5 16K0102 A
23	161101J1_23	11/1/2016 20:05:55	IPA	IPA

(A) DNU, see RI on 161102J2.

PW
11/2/16

	Sample Name	Acquisition Date	Sample ID	Sample Comment
1	161102J2_03	11/2/2016 11:43:49	IPA	IPA
2	161102J2_04	11/2/2016 11:56:05	SS161102J2-1 PFC SSS 16J1810	PFC SSS 16J1810 A
3	161102J2_05	11/2/2016 12:08:21	IPA	IPA

Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

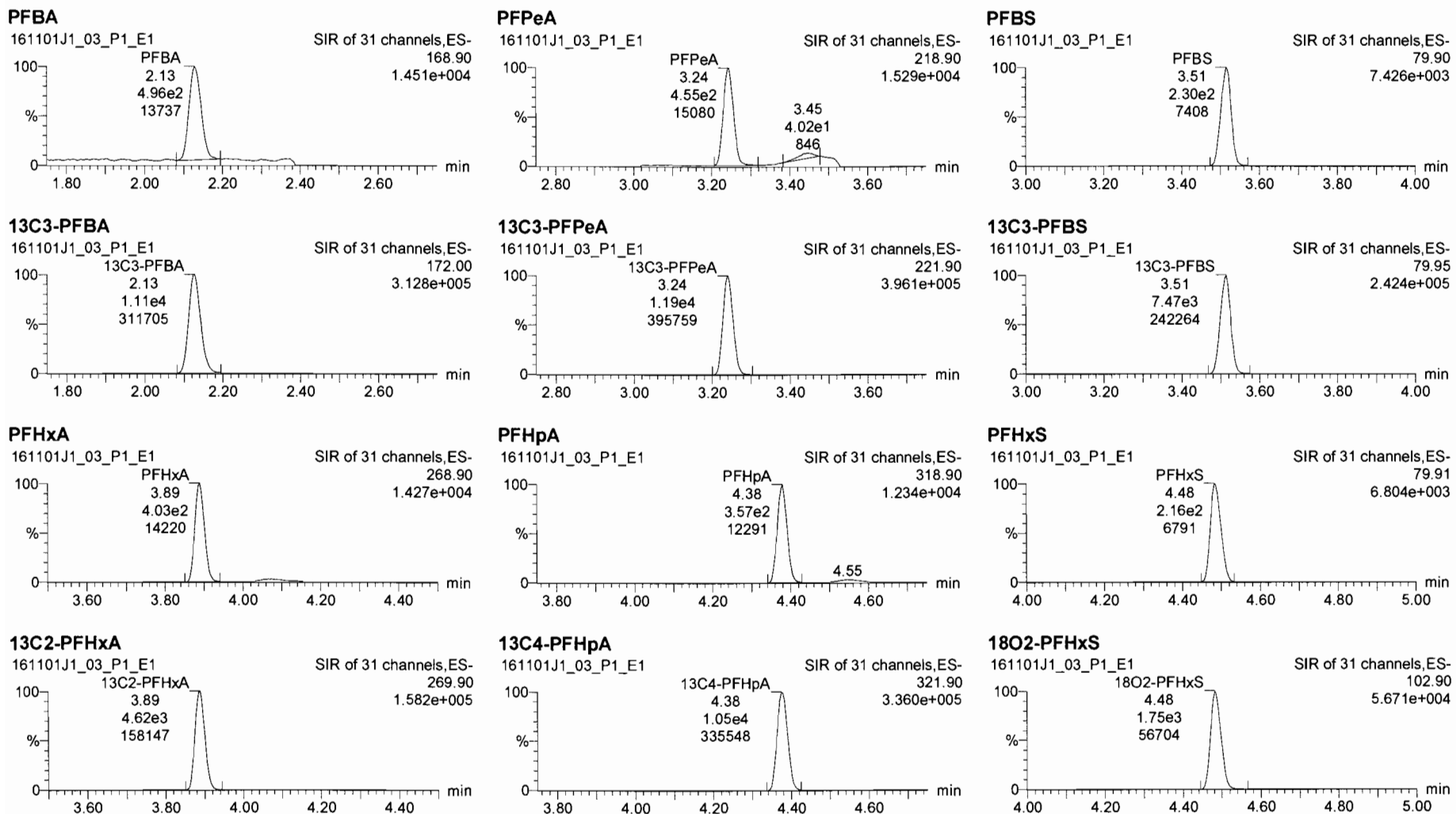
Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 02 Nov 2016 09:14:04

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161101J1_03.wiff, Date: 01-Nov-2016, Time: 16:01:09, ID: ST161101J1-2 PFC CS(-)16J3105, Description: PFC CS(-)16J3105



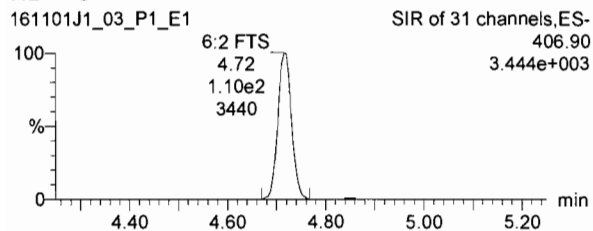
Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

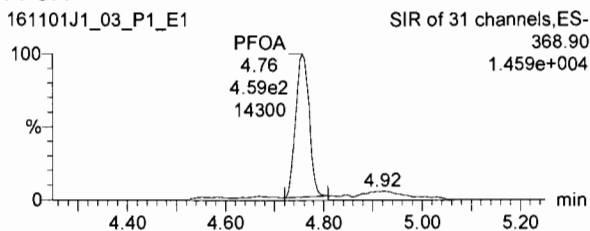
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

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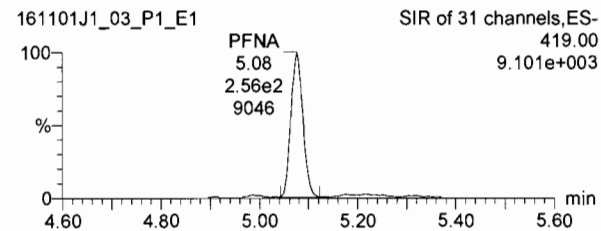
6:2 FTS



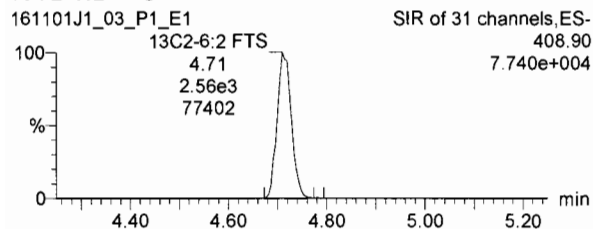
PFOA



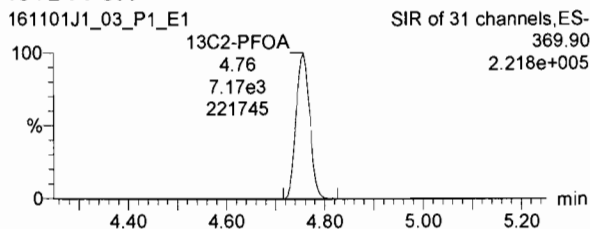
PFNA



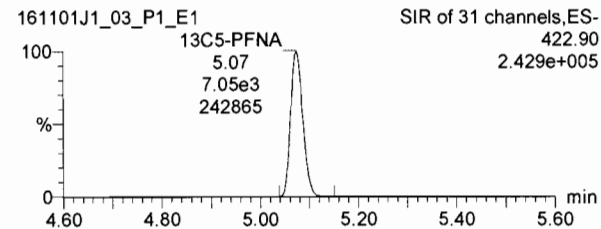
13C2-6:2 FTS



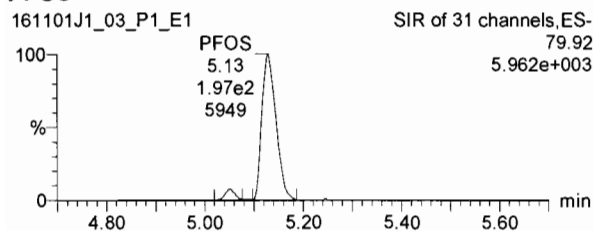
13C2-PFOA



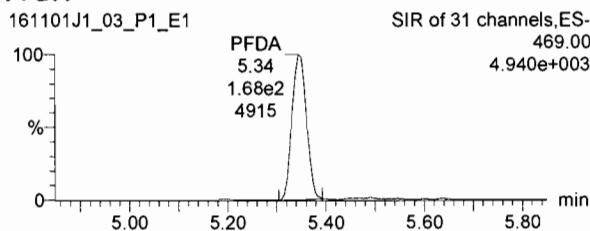
13C5-PFNA



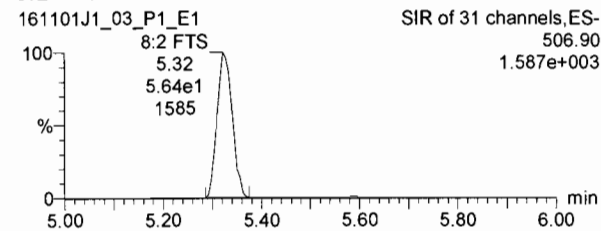
PFOS



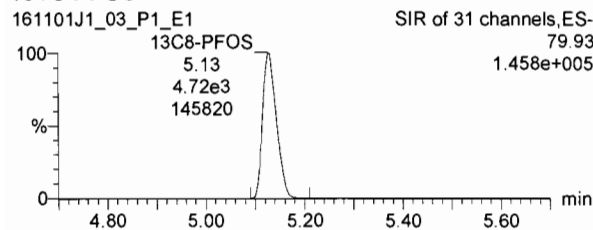
PFDA



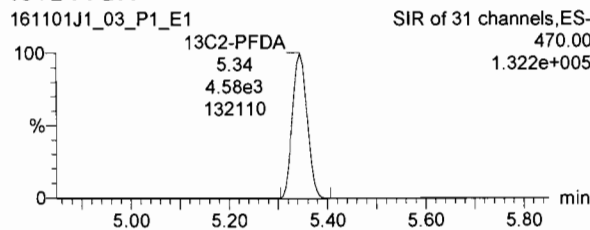
8:2 FTS



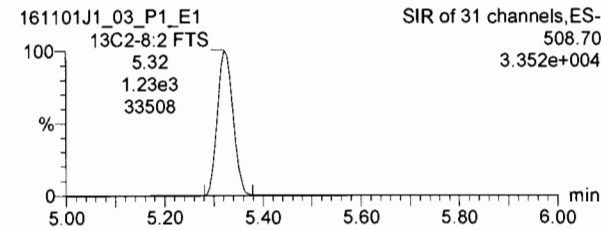
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



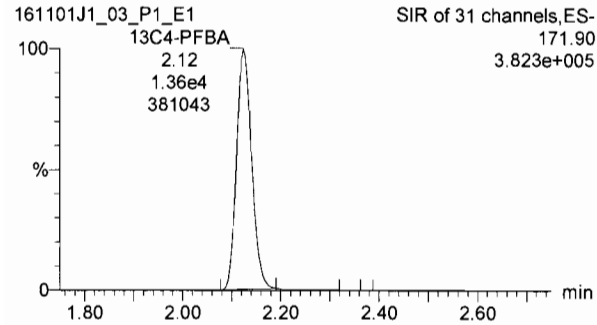
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Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

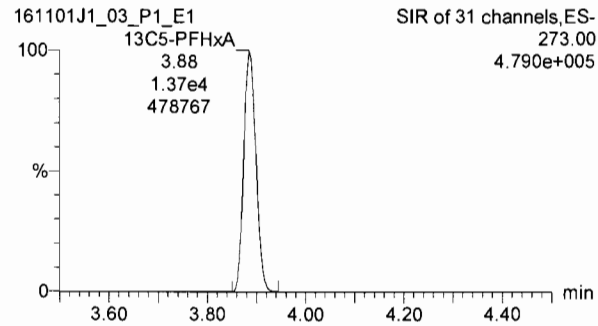
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

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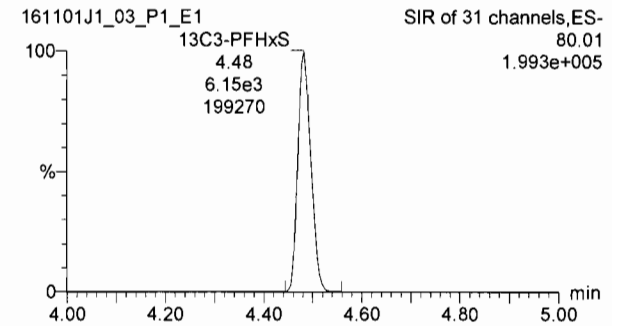
13C4-PFBA



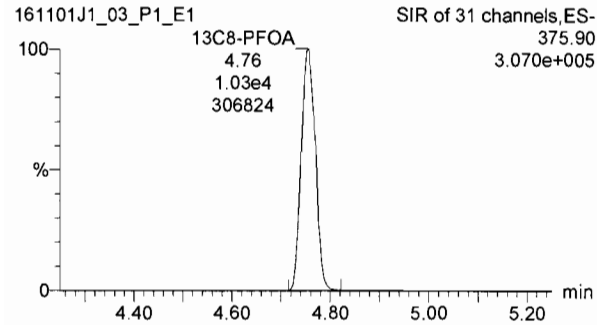
13C5-PFHxA



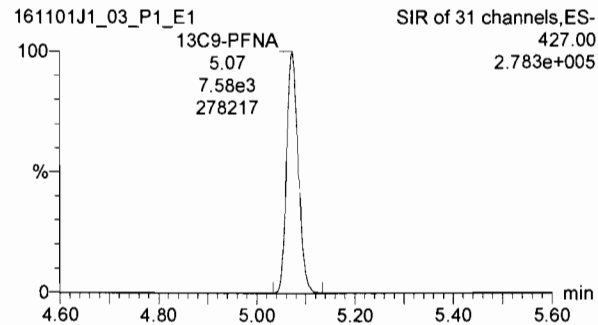
13C3-PFHxS



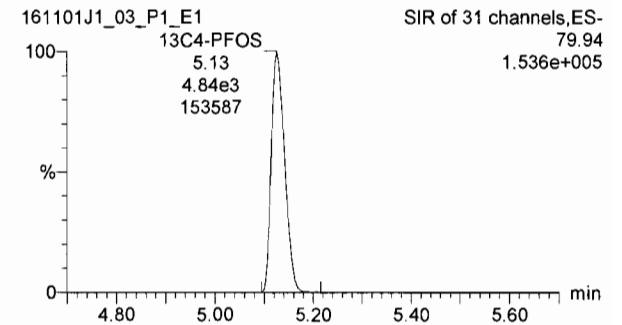
13C8-PFOA



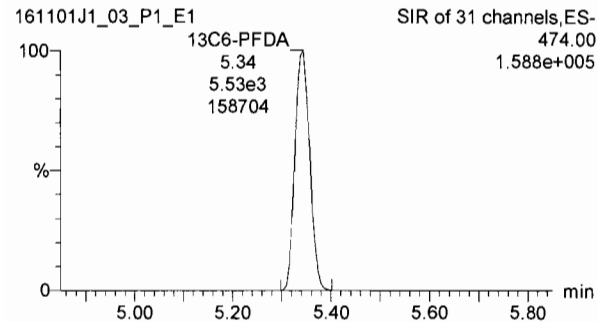
13C9-PFNA



13C4-PFOS



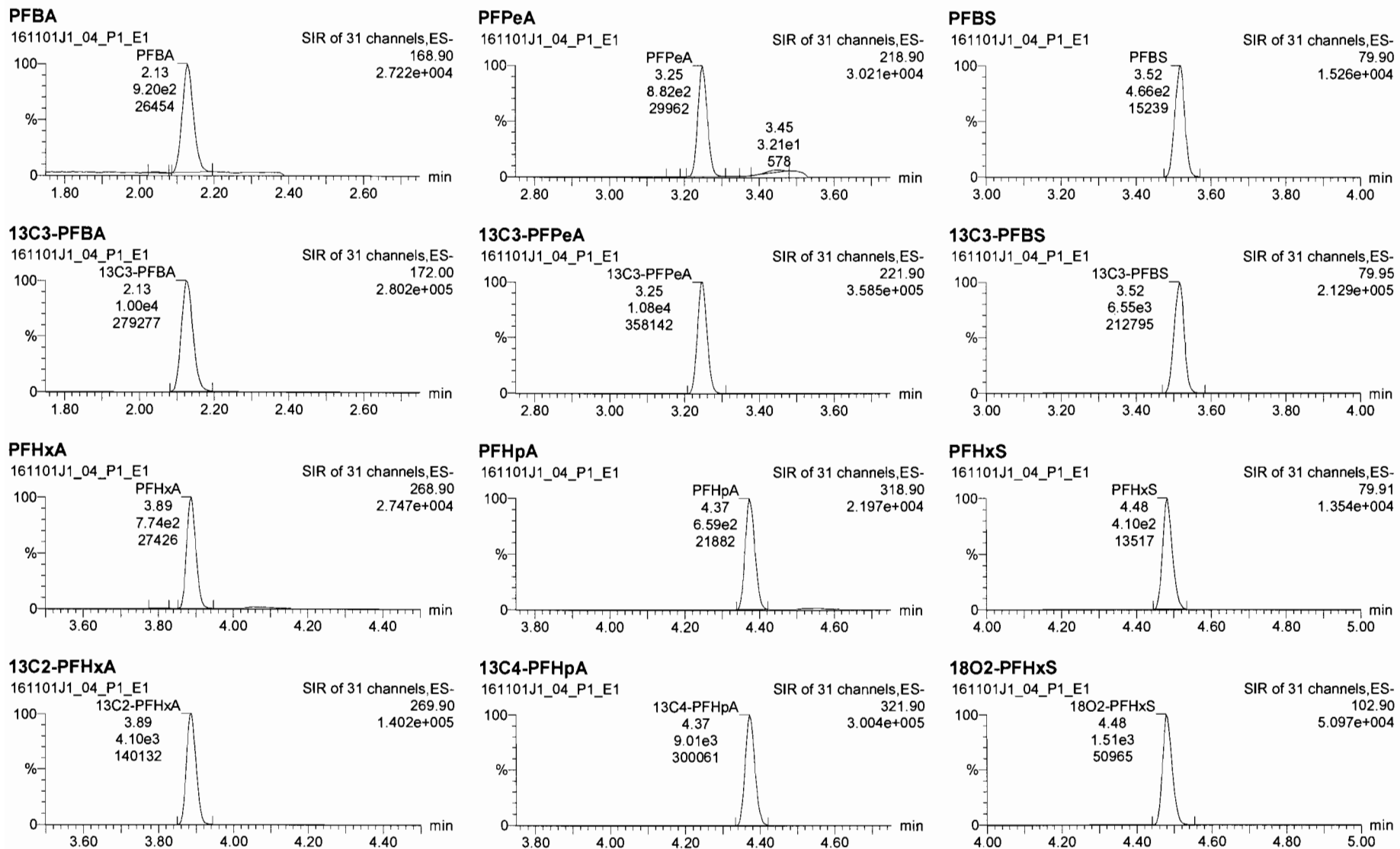
13C6-PFDA



Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_04.wiff, Date: 01-Nov-2016, Time: 16:13:22, ID: ST161101J1-3 PFC CS0 16J3107, Description: PFC CS0 16J3107



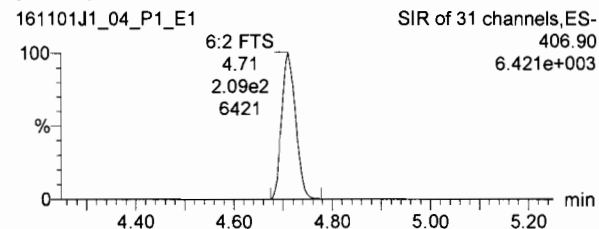
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Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

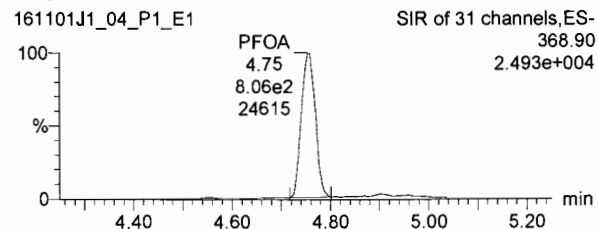
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Name: 161101J1_04.wiff, Date: 01-Nov-2016, Time: 16:13:22, ID: ST161101J1-3 PFC CS0 16J3107, Description: PFC CS0 16J3107

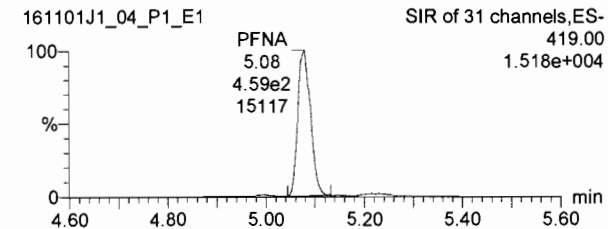
6:2 FTS



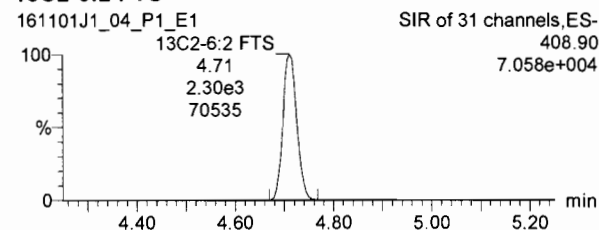
PFOA



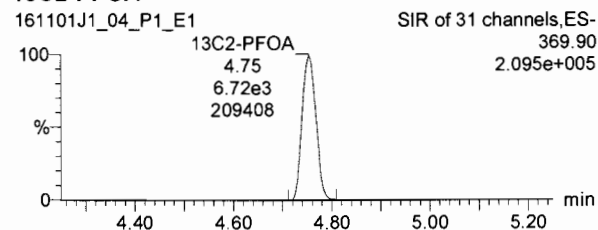
PFNA



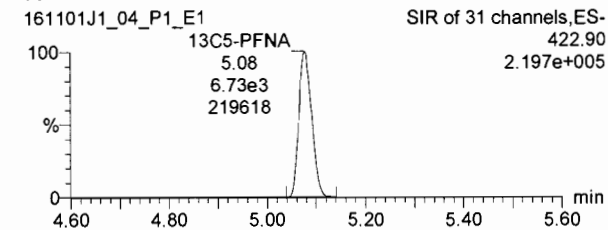
13C2-6:2 FTS



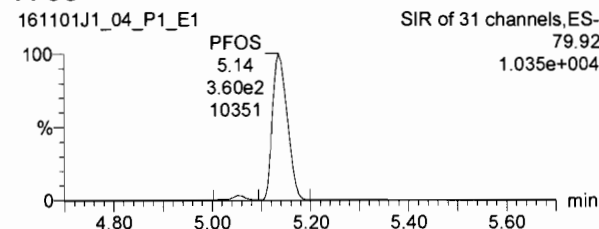
13C2-PFOA



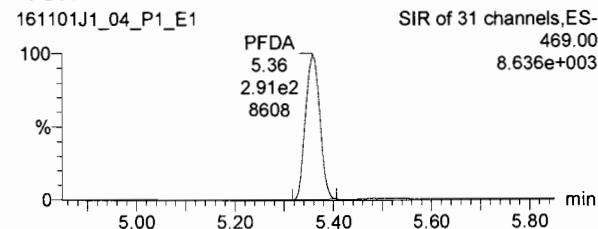
13C5-PFNA



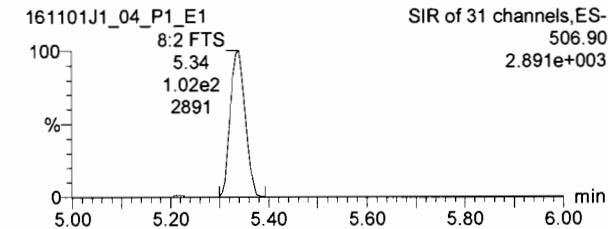
PFOS



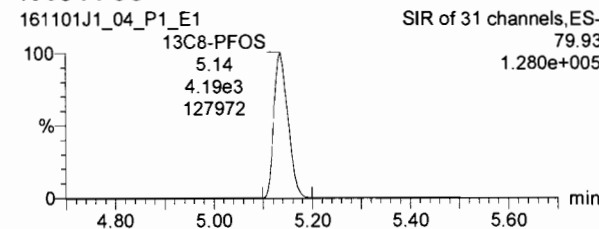
PFDA



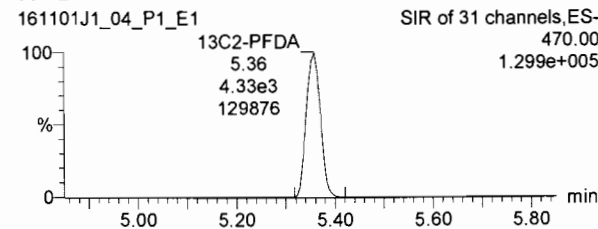
8:2 FTS



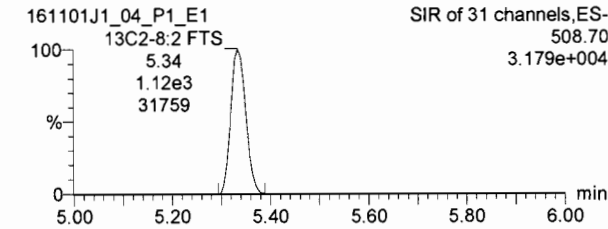
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

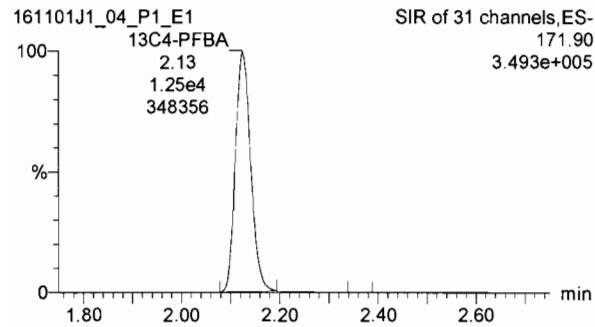


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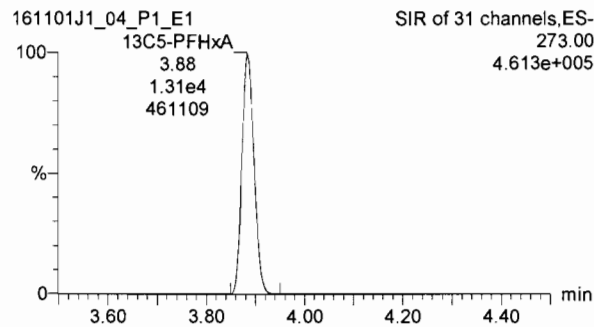
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Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

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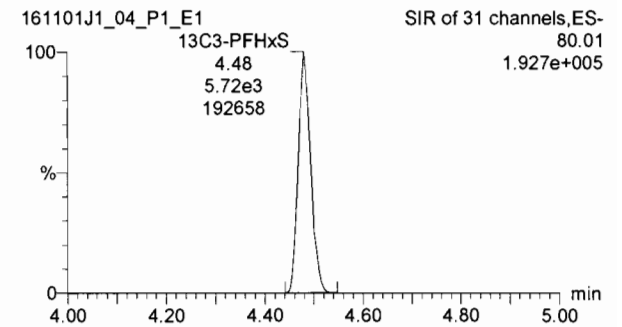
13C4-PFBA



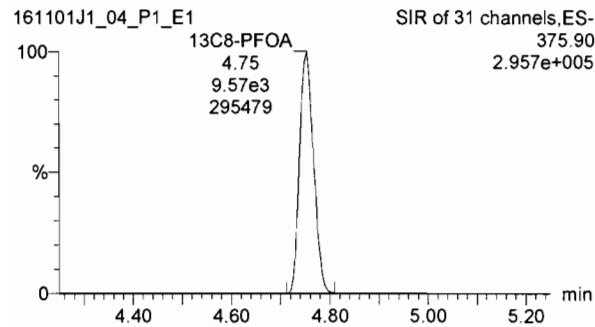
13C5-PFHxA



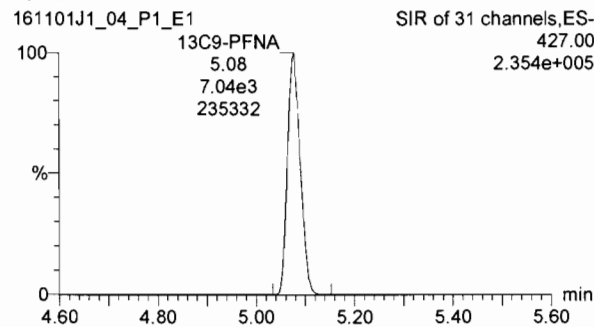
13C3-PFHxS



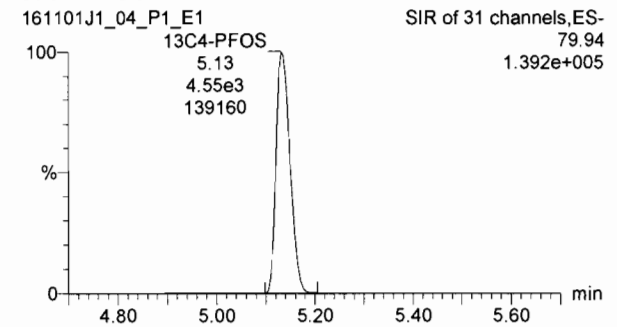
13C8-PFOA



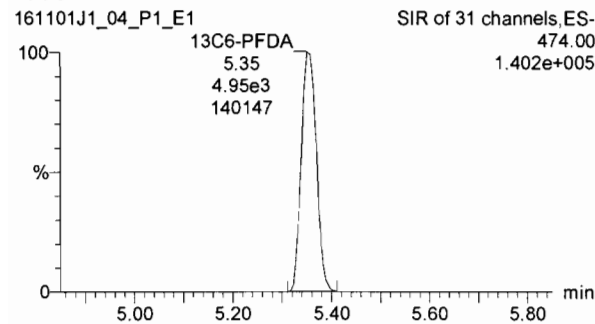
13C9-PFNA



13C4-PFOS



13C6-PFDA

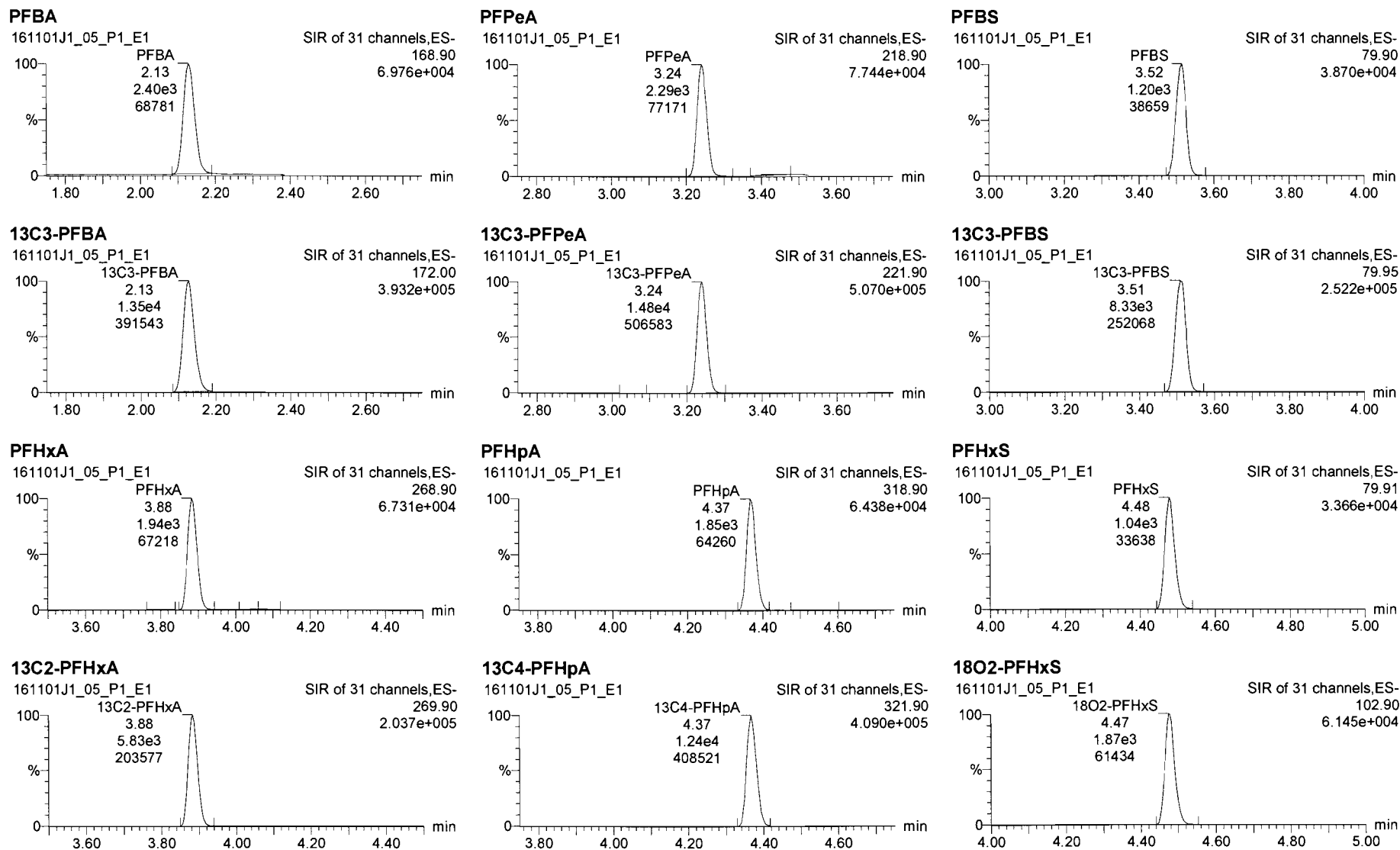


Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_05.wiff, Date: 01-Nov-2016, Time: 16:25:35, ID: ST161101J1-4 PFC CS1 16J2706, Description: PFC CS1 16J2706



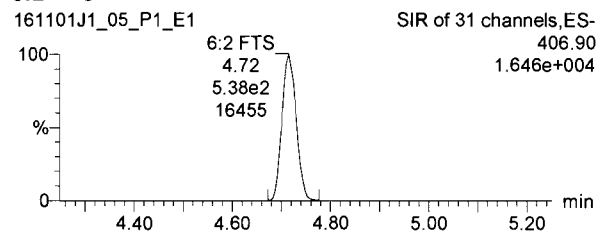
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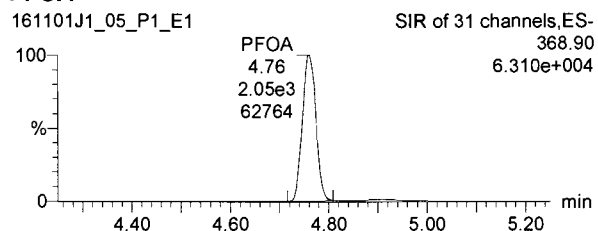
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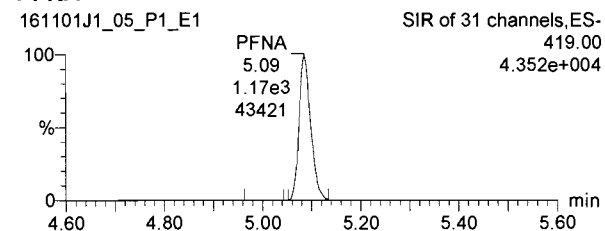
6:2 FTS



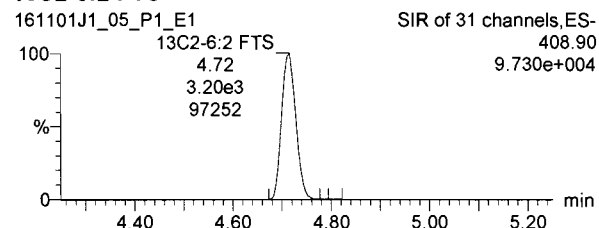
PFOA



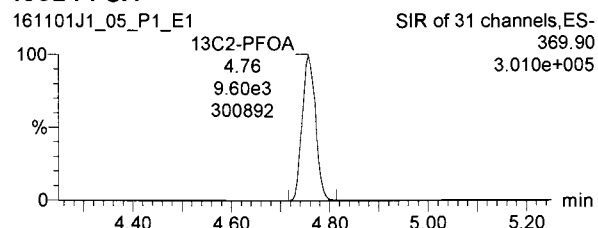
PFNA



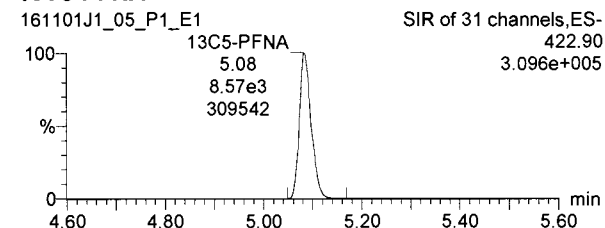
13C2-6:2 FTS



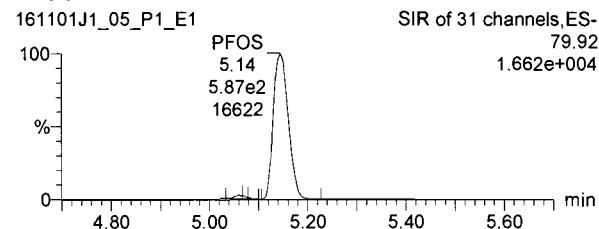
13C2-PFOA



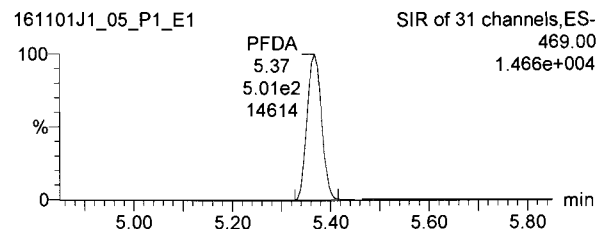
13C5-PFNA



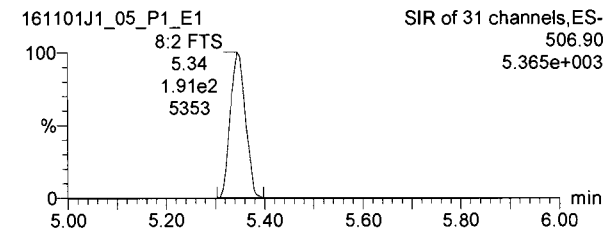
PFOS



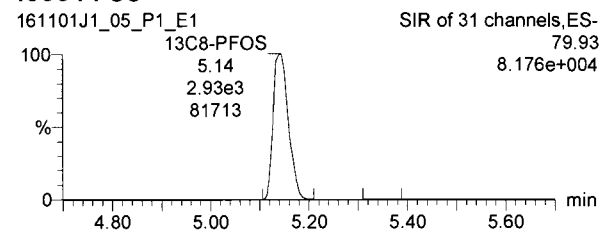
PFDA



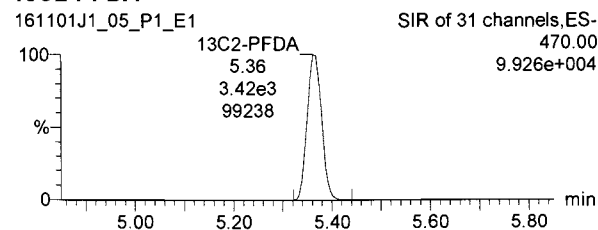
8:2 FTS



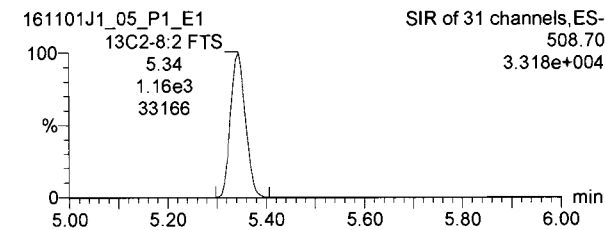
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

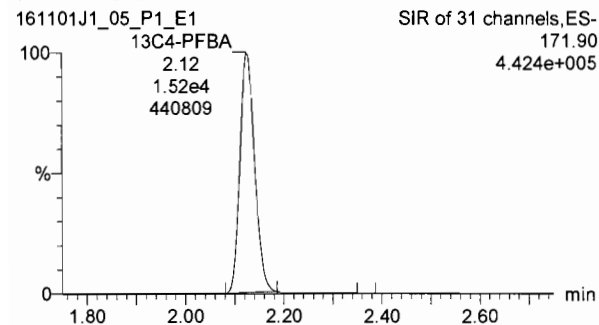


Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

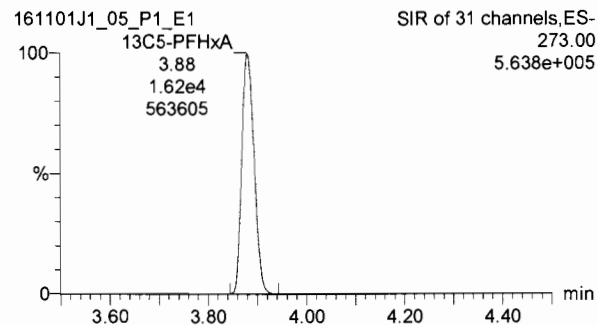
Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_05.wiff, Date: 01-Nov-2016, Time: 16:25:35, ID: ST161101J1-4 PFC CS1 16J2706, Description: PFC CS1 16J2706

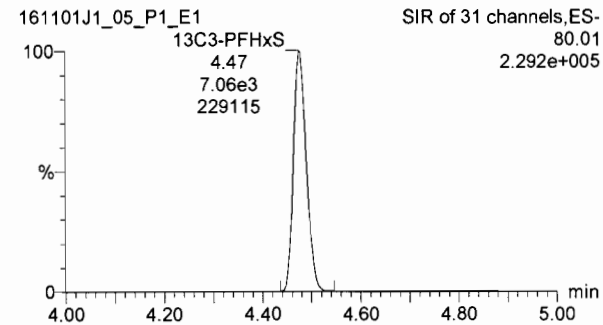
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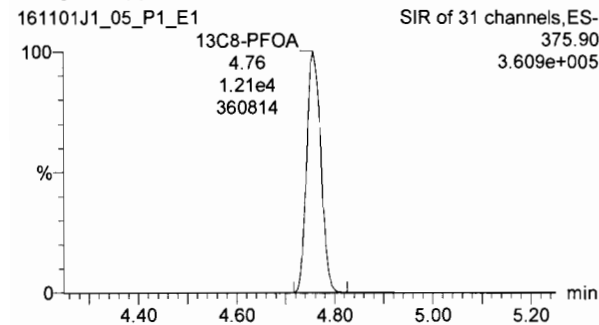
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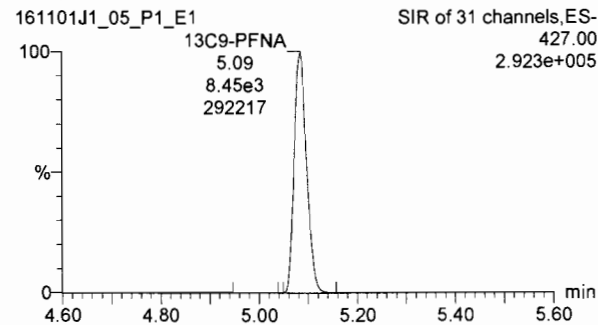
13C3-PFHxS



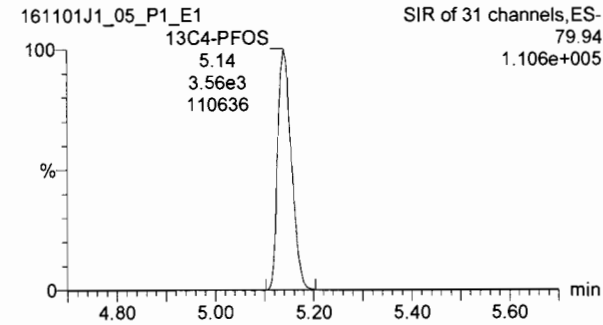
13C8-PFOA



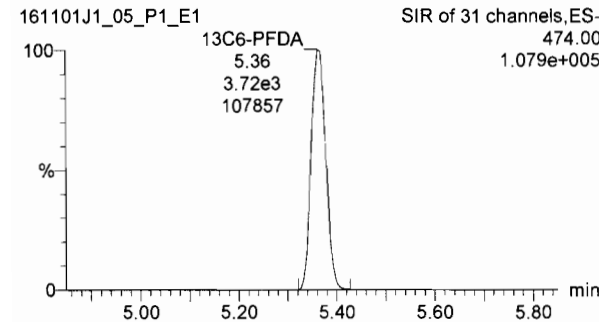
13C9-PFNA



13C4-PFOS



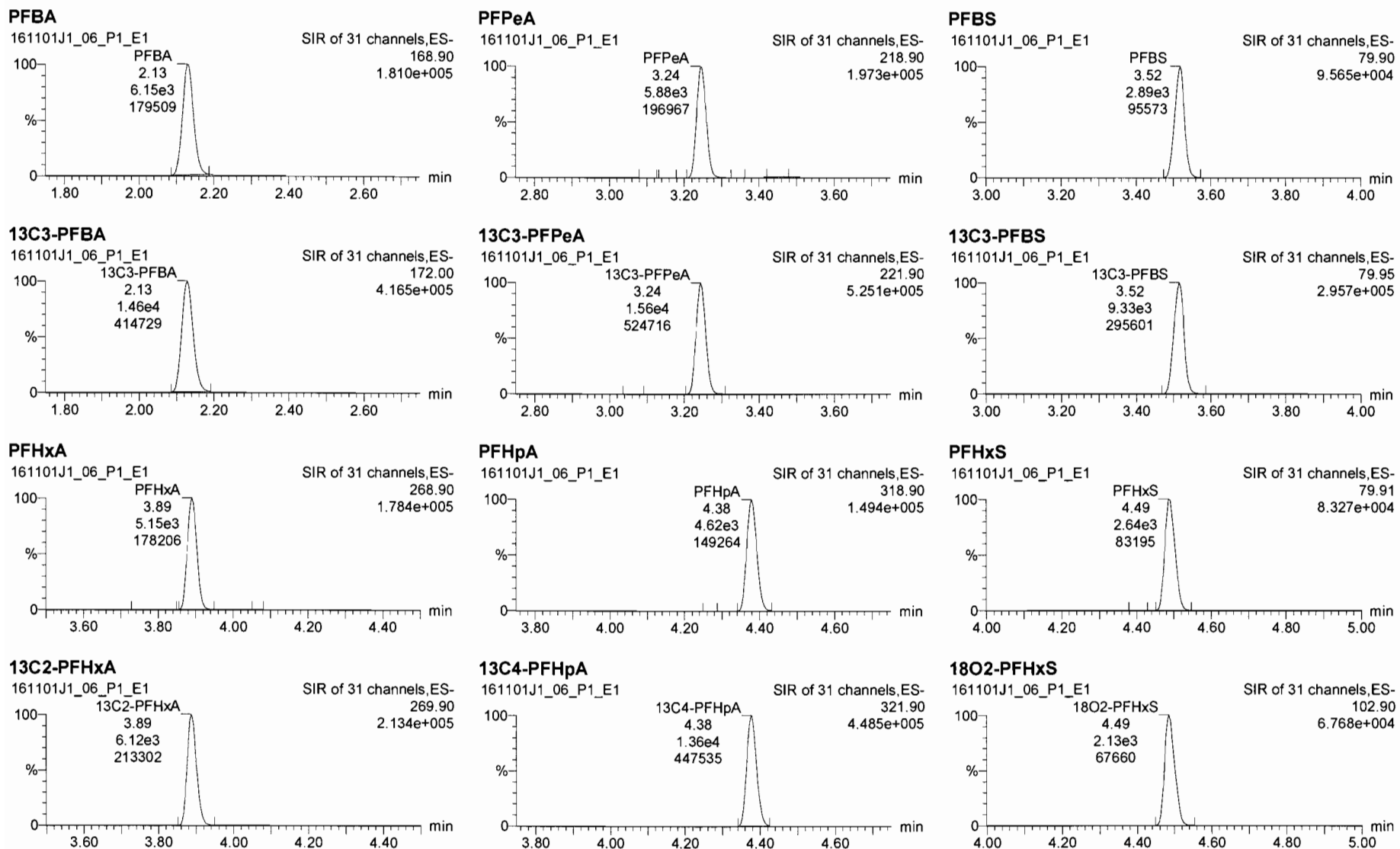
13C6-PFDA



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_06.wiff, Date: 01-Nov-2016, Time: 16:37:49, ID: ST161101J1-5 PFC CS2 16J2707, Description: PFC CS2 16J2707



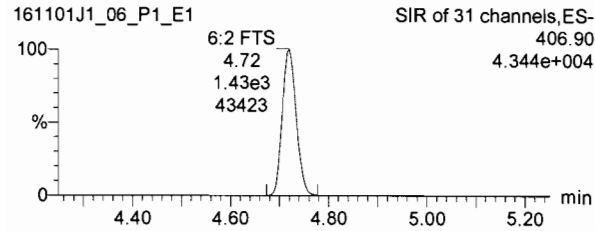
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Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

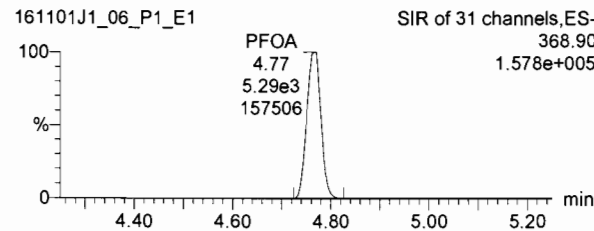
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_06.wiff, Date: 01-Nov-2016, Time: 16:37:49, ID: ST161101J1-5 PFC CS2 16J2707, Description: PFC CS2 16J2707

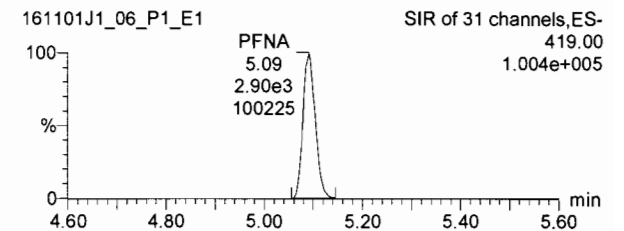
6:2 FTS



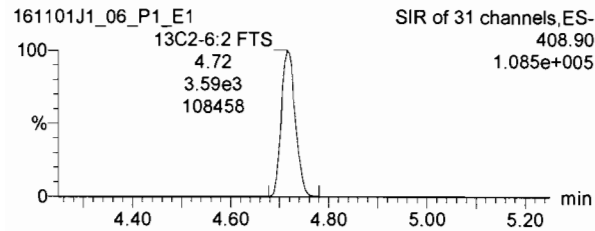
PFOA



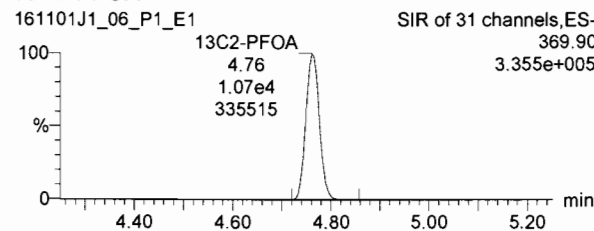
PFNA



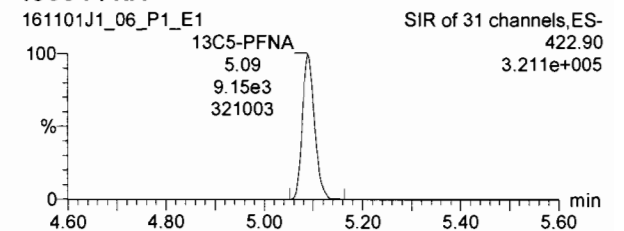
13C2-6:2 FTS



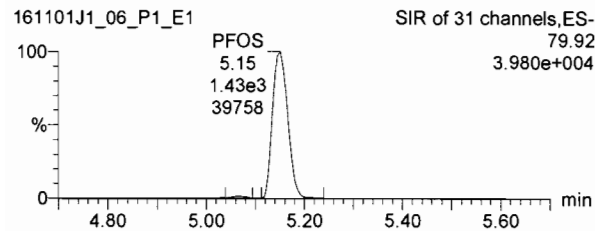
13C2-PFOA



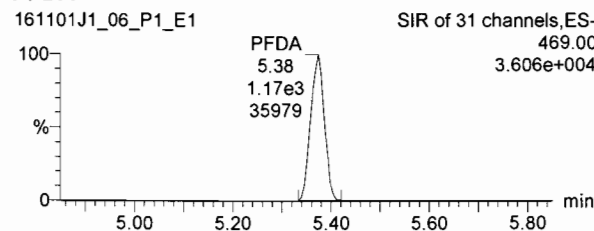
13C5-PFNA



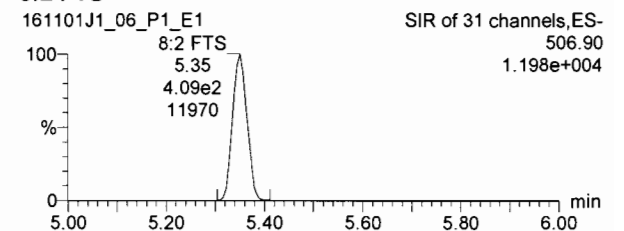
PFOS



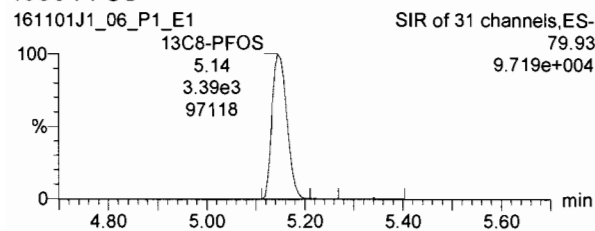
PFDA



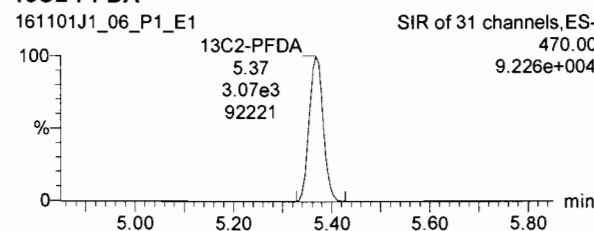
8:2 FTS



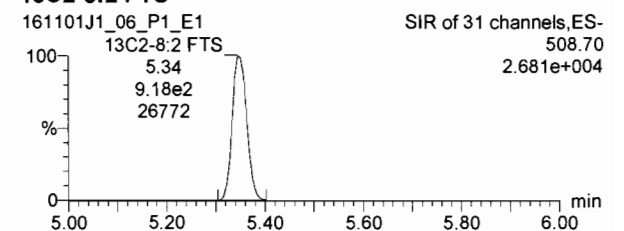
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

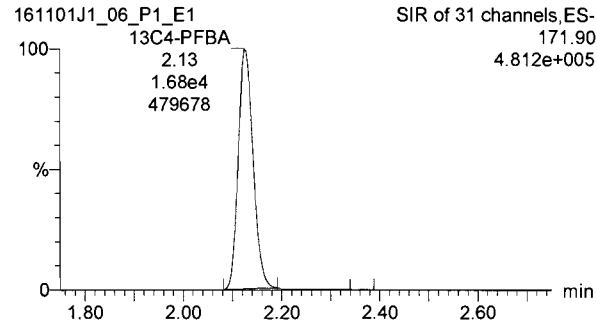


Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

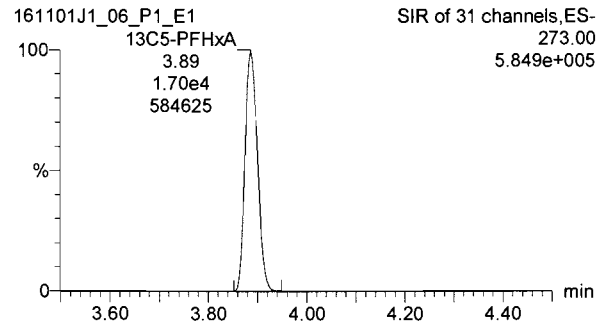
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Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_06.wiff, Date: 01-Nov-2016, Time: 16:37:49, ID: ST161101J1-5 PFC CS2 16J2707, Description: PFC CS2 16J2707

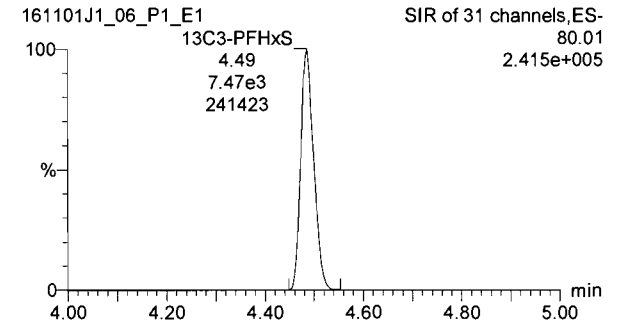
13C4-PFBA



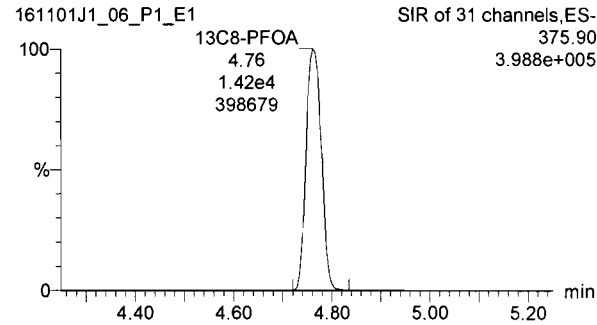
13C5-PFHxA



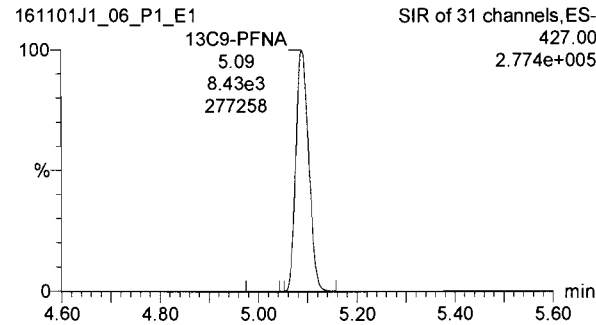
13C3-PFHxS



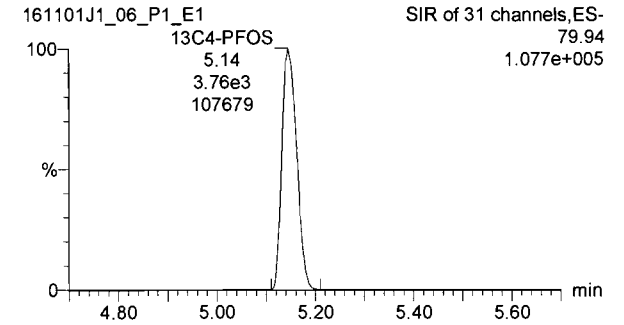
13C8-PFOA



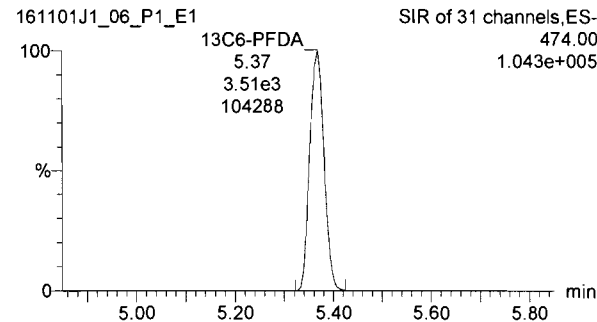
13C9-PFNA



13C4-PFOS



13C6-PFDA

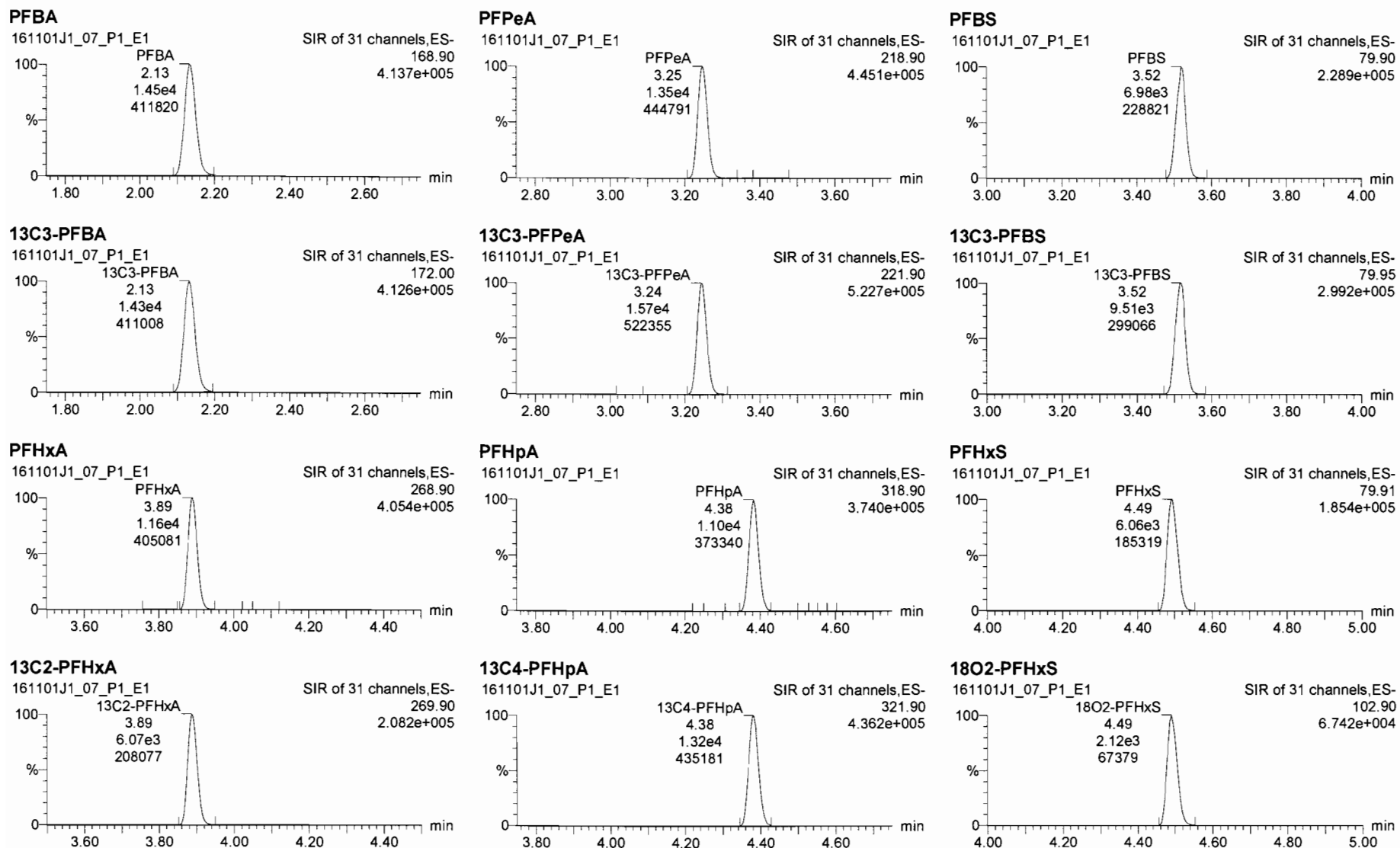


Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_07.wiff, Date: 01-Nov-2016, Time: 16:50:04, ID: ST161101J1-6 PFC CS3 16J2708, Description: PFC CS3 16J2708

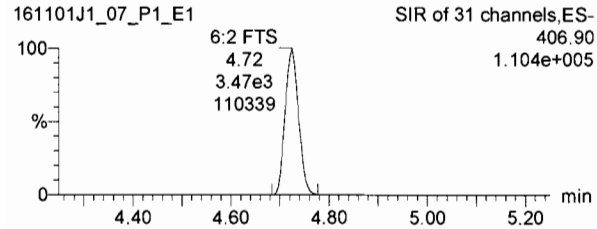


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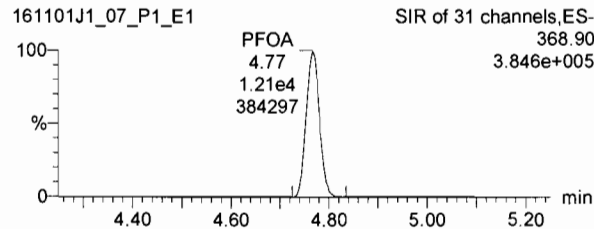
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Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_07.wiff, Date: 01-Nov-2016, Time: 16:50:04, ID: ST161101J1-6 PFC CS3 16J2708, Description: PFC CS3 16J2708

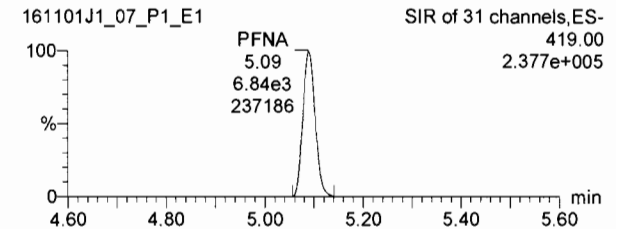
6:2 FTS



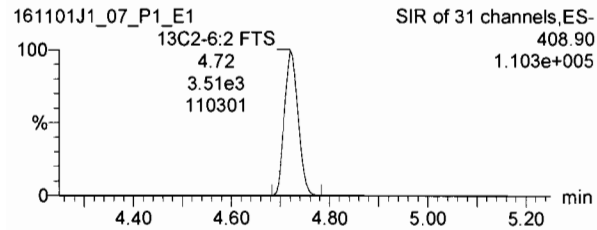
PFOA



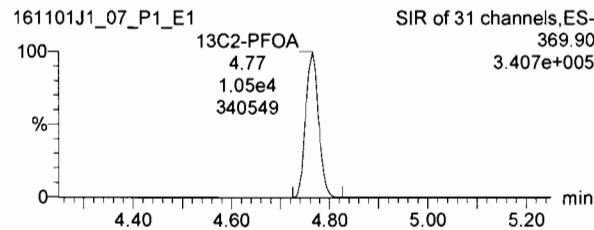
PFNA



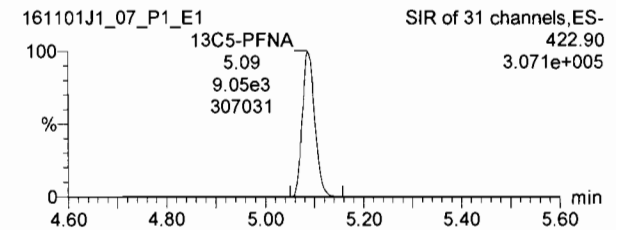
13C2-6:2 FTS



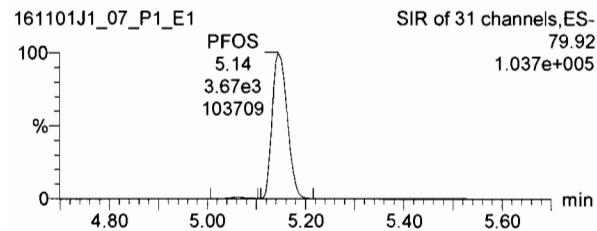
13C2-PFOA



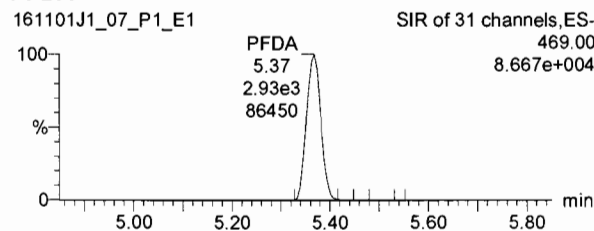
13C5-PFNA



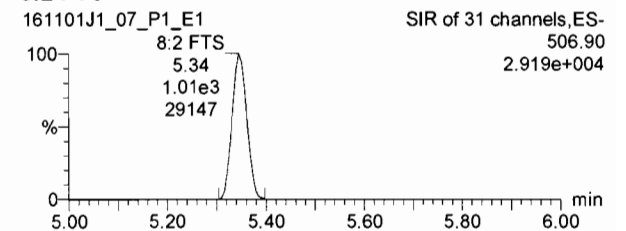
PFOS



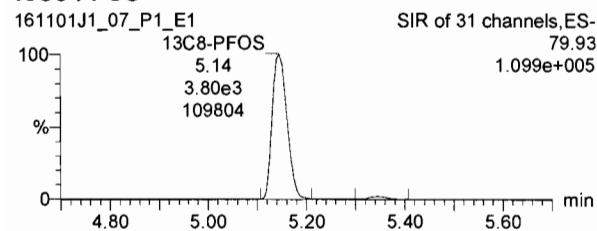
PFDA



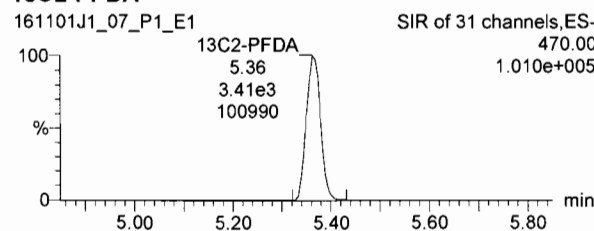
8:2 FTS



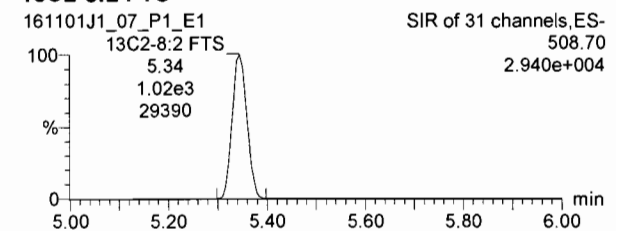
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



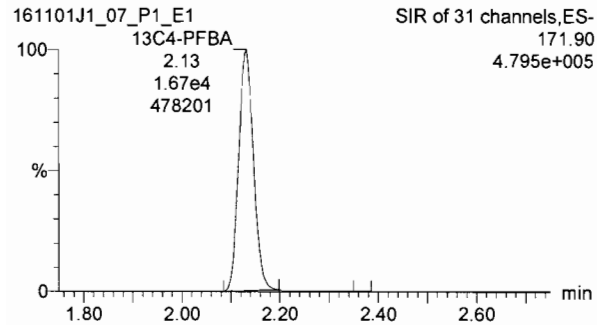
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Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

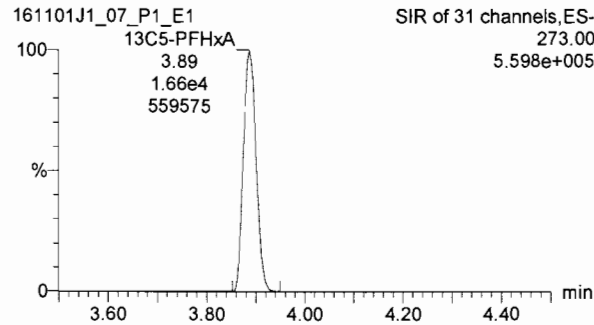
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_07.wiff, Date: 01-Nov-2016, Time: 16:50:04, ID: ST161101J1-6 PFC CS3 16J2708, Description: PFC CS3 16J2708

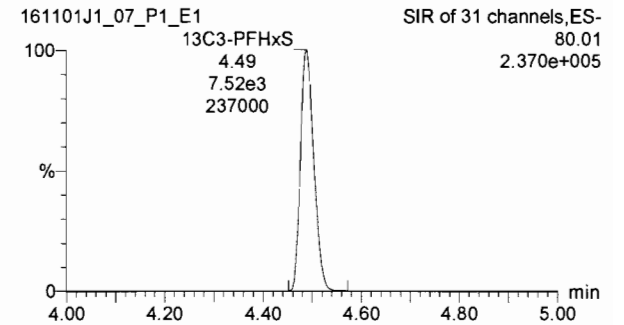
13C4-PFBA



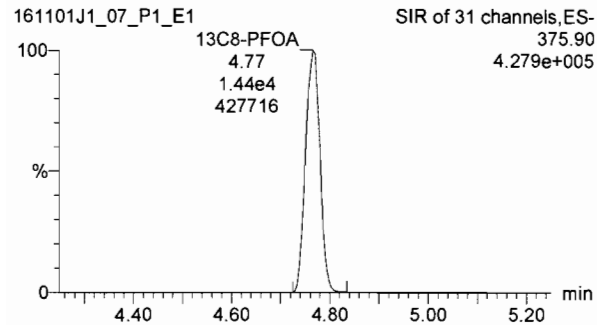
13C5-PFHxA



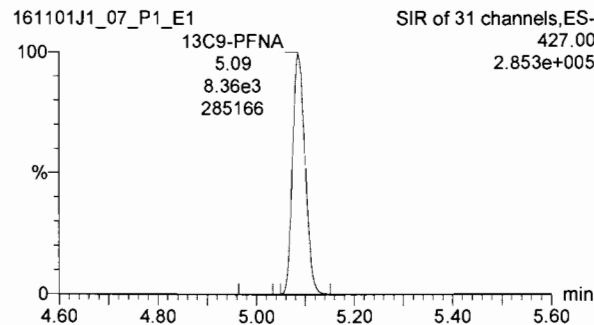
13C3-PFHxS



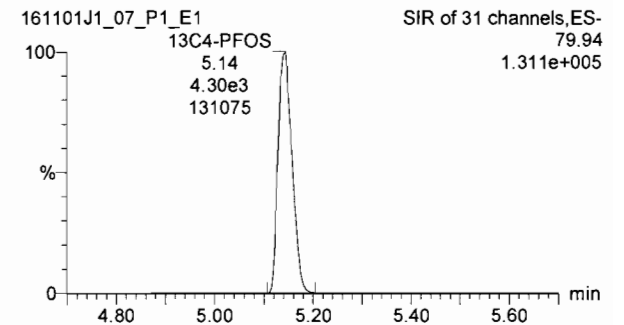
13C8-PFOA



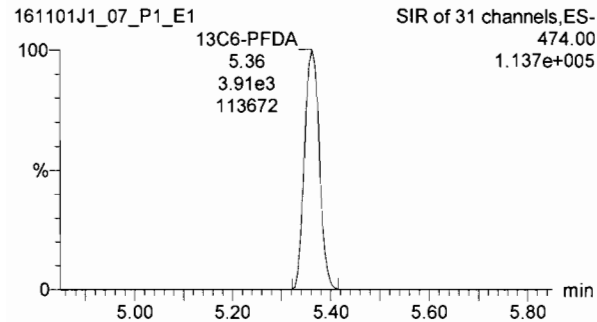
13C9-PFNA



13C4-PFOS



13C6-PFDA

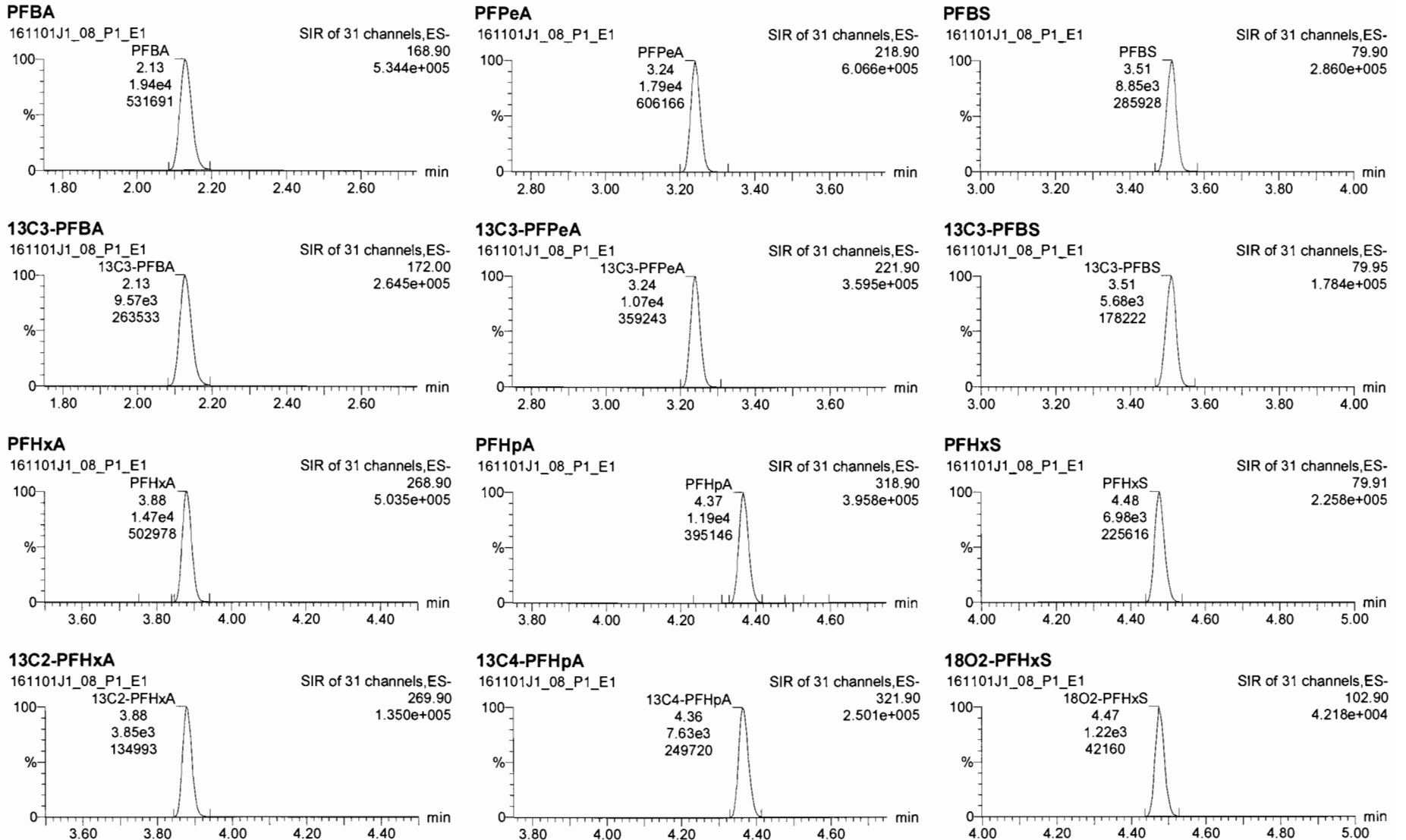


Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_08.wiff, Date: 01-Nov-2016, Time: 17:02:17, ID: ST161101J1-7 PFC C3.5 16K0105, Description: PFC C3.5 16K0105

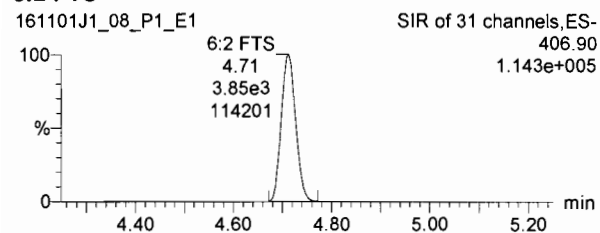


Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

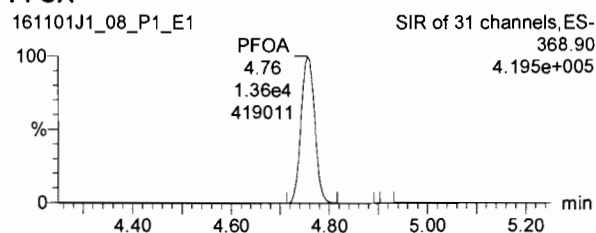
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Name: 161101J1_08.wiff, Date: 01-Nov-2016, Time: 17:02:17, ID: ST161101J1-7 PFC C3.5 16K0105, Description: PFC C3.5 16K0105

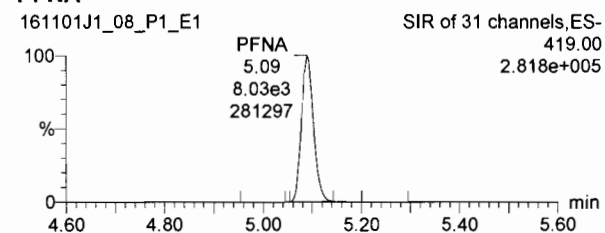
6:2 FTS



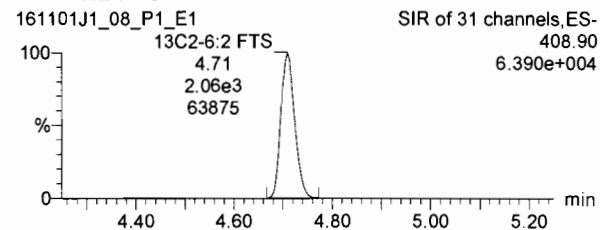
PFOA



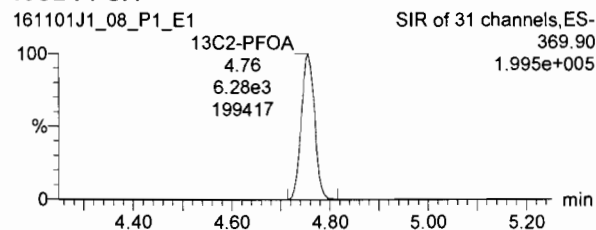
PFNA



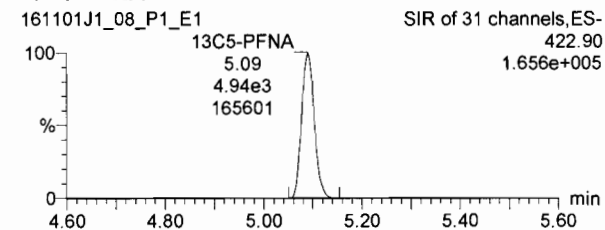
13C2-6:2 FTS



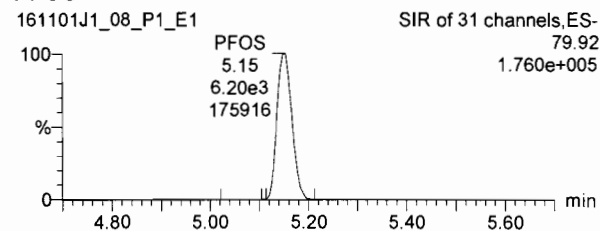
13C2-PFOA



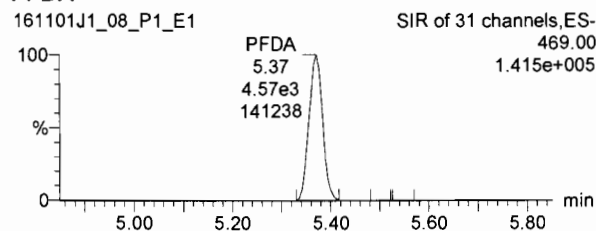
13C5-PFNA



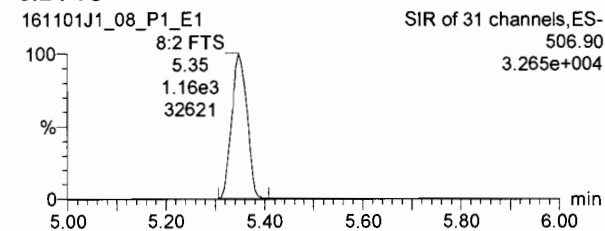
PFOS



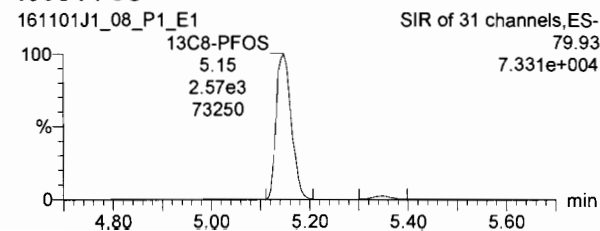
PFDA



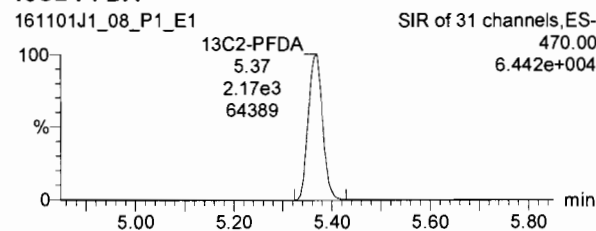
8:2 FTS



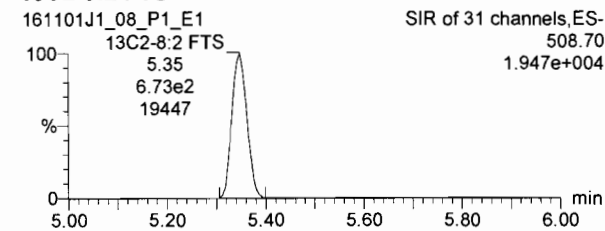
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

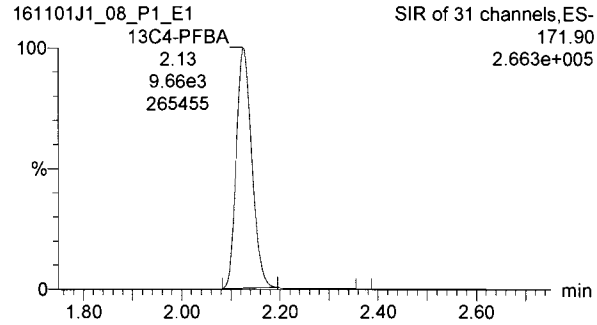


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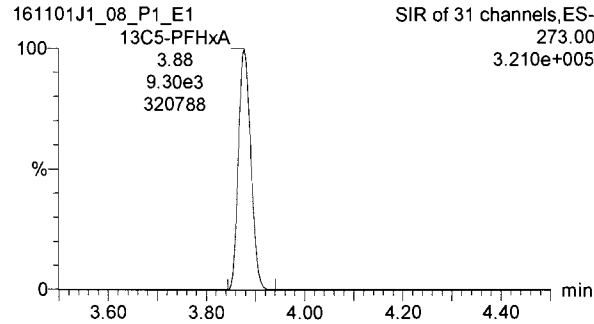
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Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_08.wiff, Date: 01-Nov-2016, Time: 17:02:17, ID: ST161101J1-7 PFC C3.5 16K0105, Description: PFC C3.5 16K0105

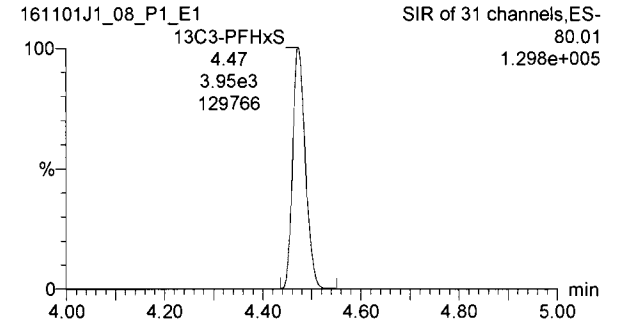
13C4-PFBA



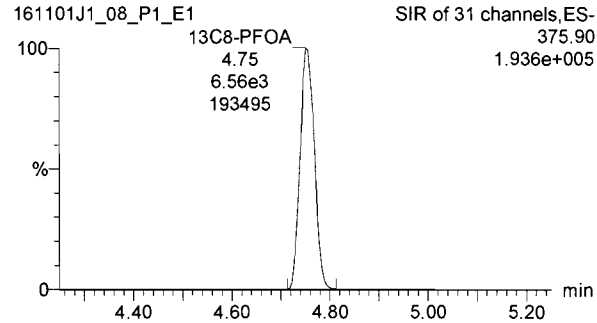
13C5-PFHxA



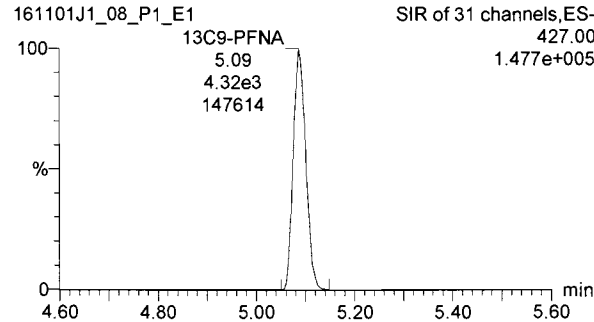
13C3-PFHxS



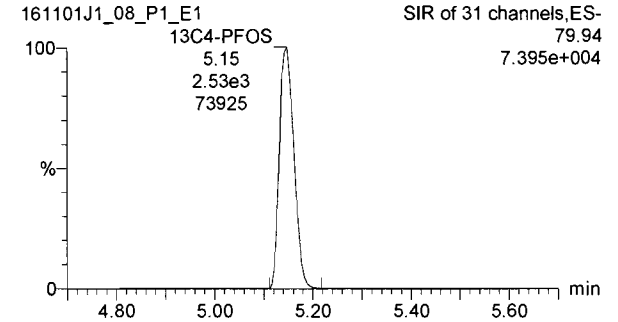
13C8-PFOA



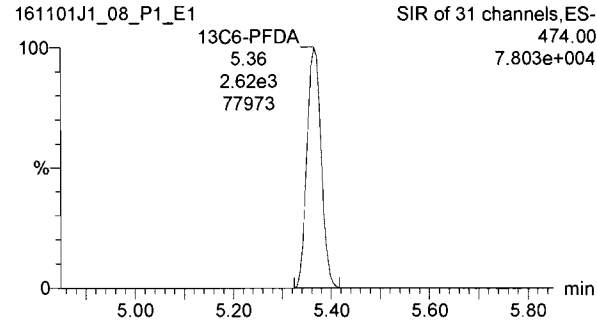
13C9-PFNA



13C4-PFOS



13C6-PFDA

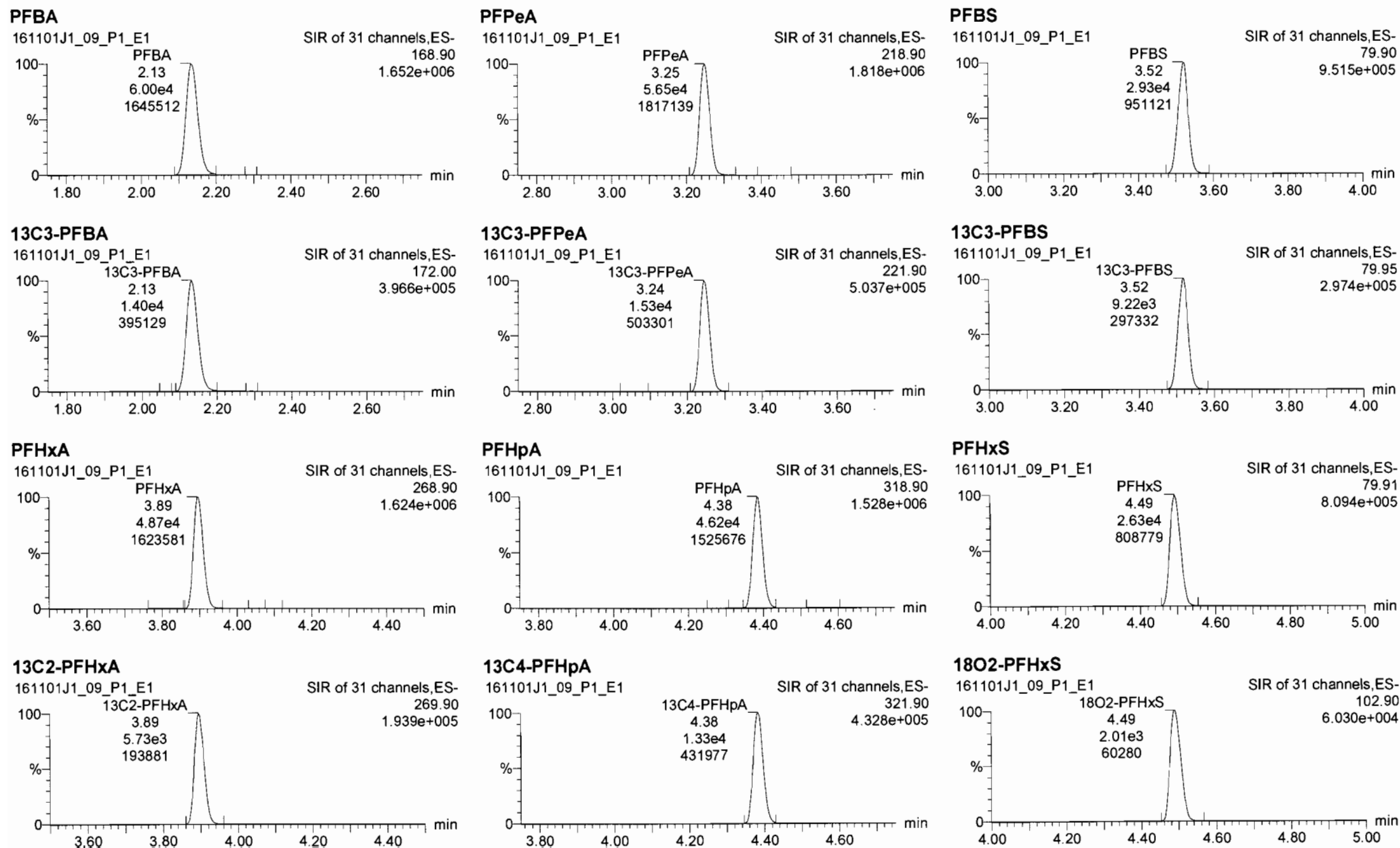


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Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_09.wiff, Date: 01-Nov-2016, Time: 17:14:29, ID: ST161101J1-8 PFC CS4 16J2709, Description: PFC CS4 16J2709

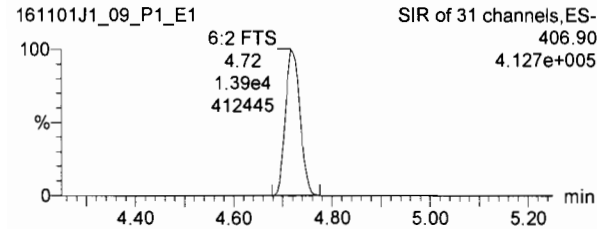


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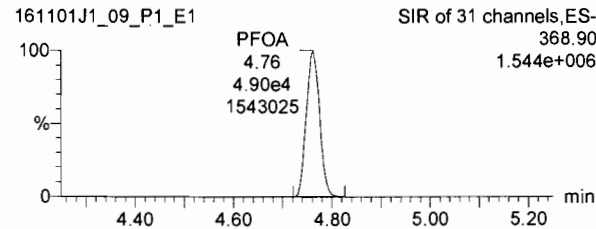
Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_09.wiff, Date: 01-Nov-2016, Time: 17:14:29, ID: ST161101J1-8 PFC CS4 16J2709, Description: PFC CS4 16J2709

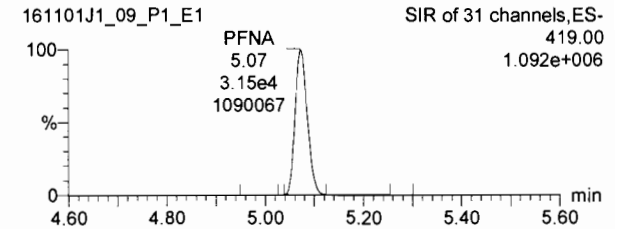
6:2 FTS



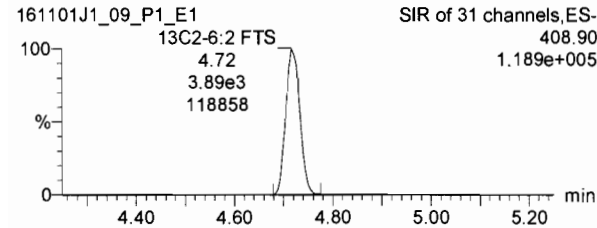
PFOA



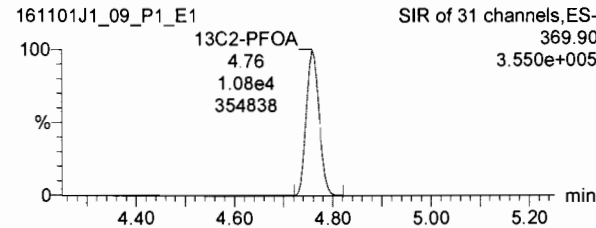
PFNA



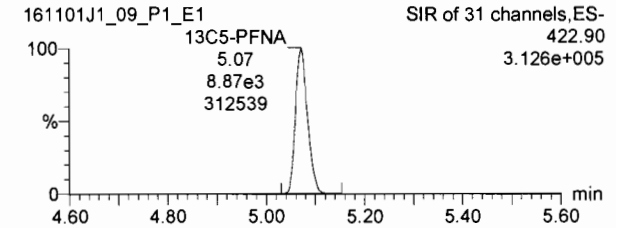
13C2-6:2 FTS



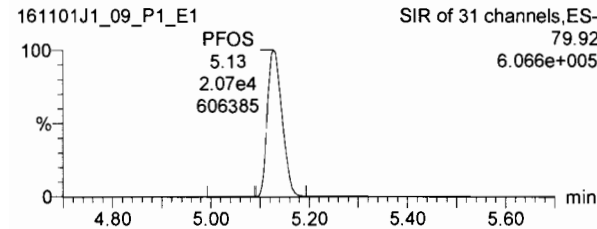
13C2-PFOA



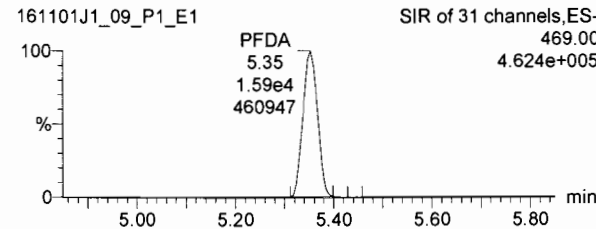
13C5-PFNA



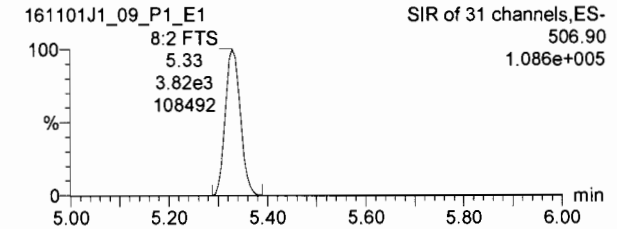
PFOS



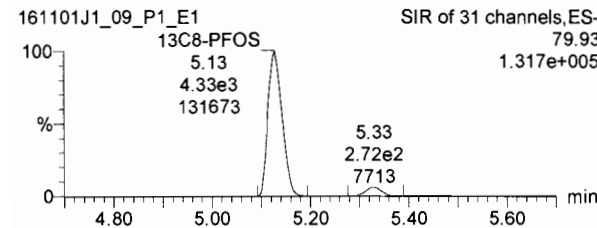
PFDA



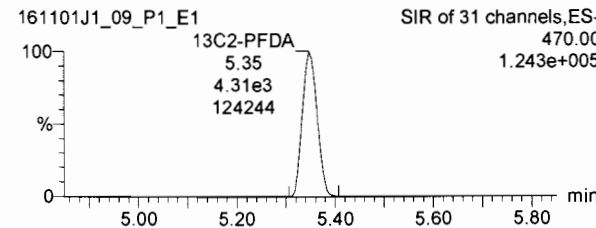
8:2 FTS



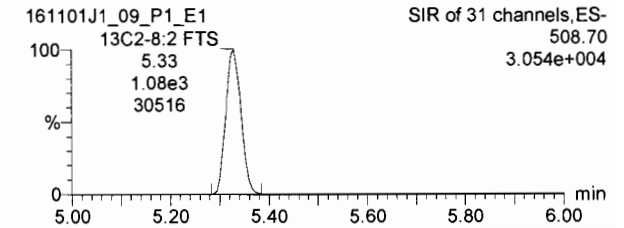
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS



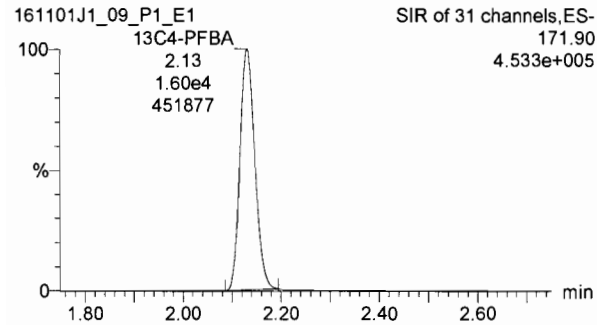
Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

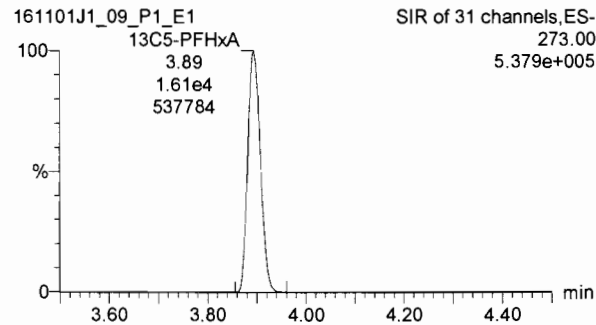
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_09.wiff, Date: 01-Nov-2016, Time: 17:14:29, ID: ST161101J1-8 PFC CS4 16J2709, Description: PFC CS4 16J2709

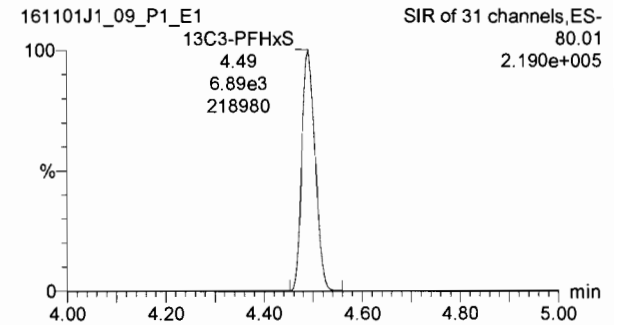
13C4-PFBA



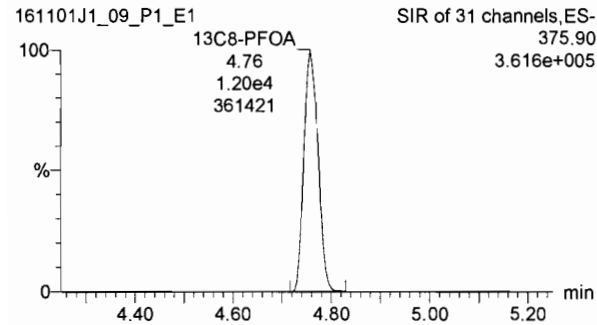
13C5-PFHxA



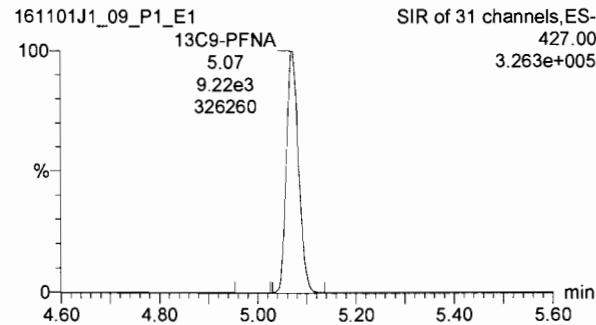
13C3-PFHxS



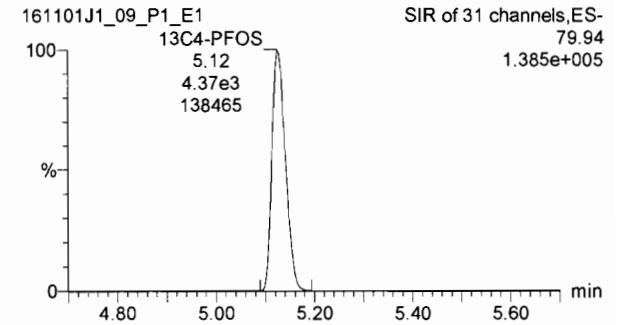
13C8-PFOA



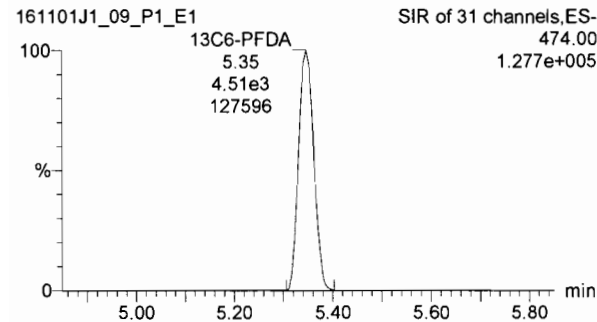
13C9-PFNA



13C4-PFOS



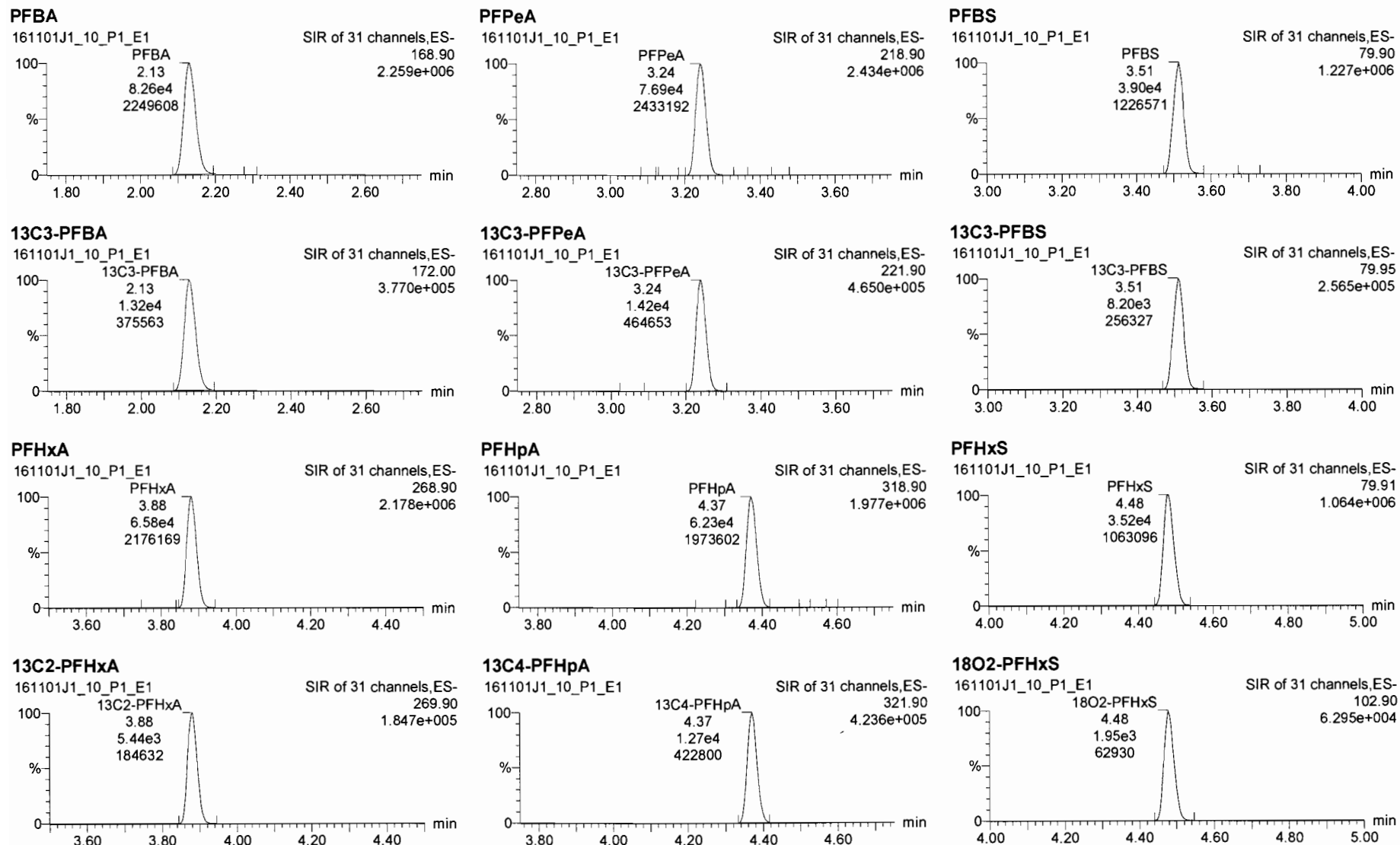
13C6-PFDA



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_10.wiff, Date: 01-Nov-2016, Time: 17:26:46, ID: ST161101J1-9 PFC CS4.5 16J2710, Description: PFC CS4.5 16J2710



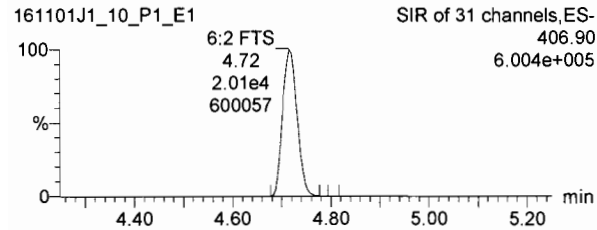
Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

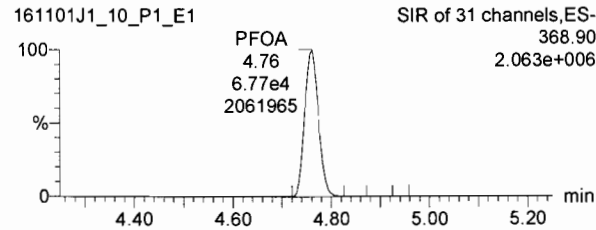
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_10.wiff, Date: 01-Nov-2016, Time: 17:26:46, ID: ST161101J1-9 PFC CS4.5 16J2710, Description: PFC CS4.5 16J2710

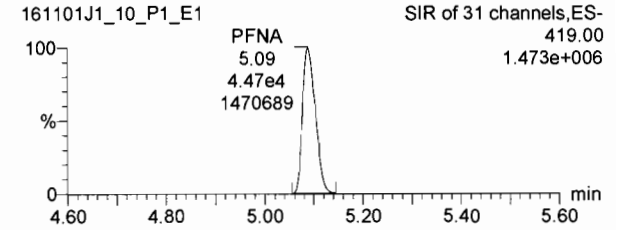
6:2 FTS



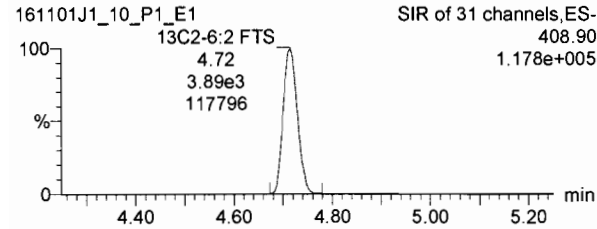
PFOA



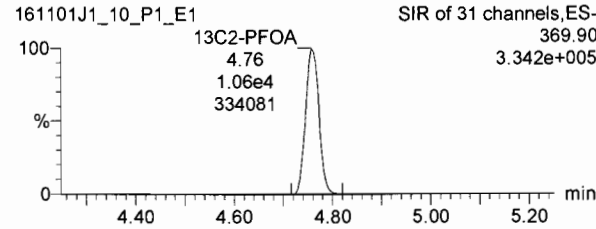
PFNA



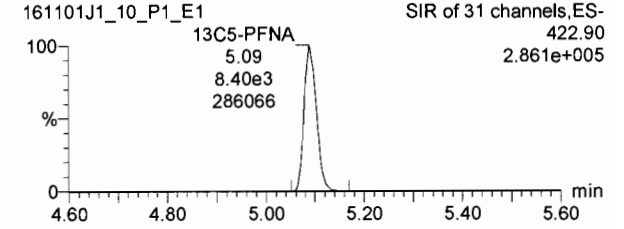
13C2-6:2 FTS



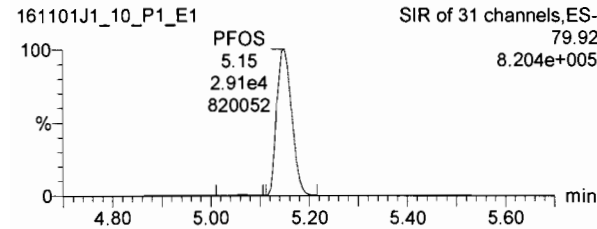
13C2-PFOA



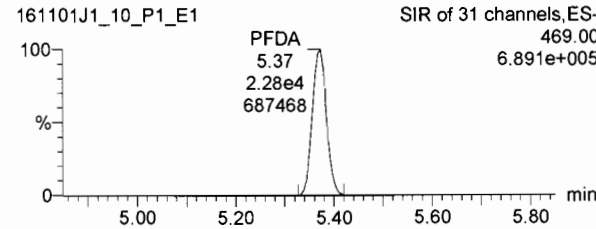
13C5-PFNA



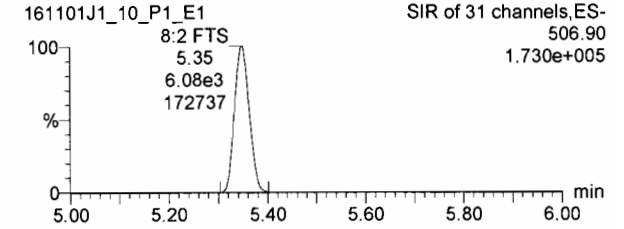
PFOS



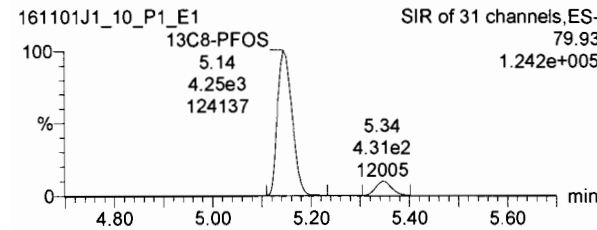
PFDA



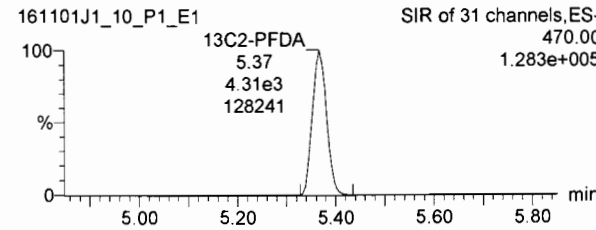
8:2 FTS



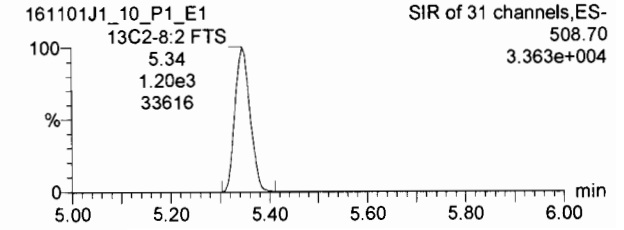
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

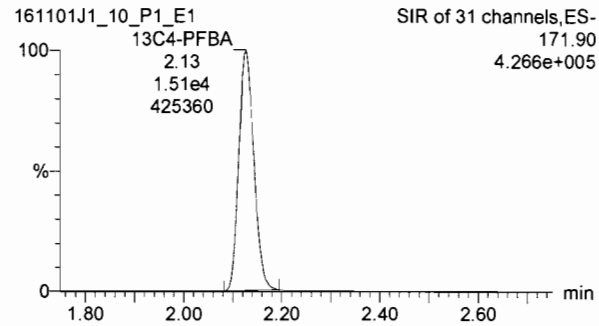


Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

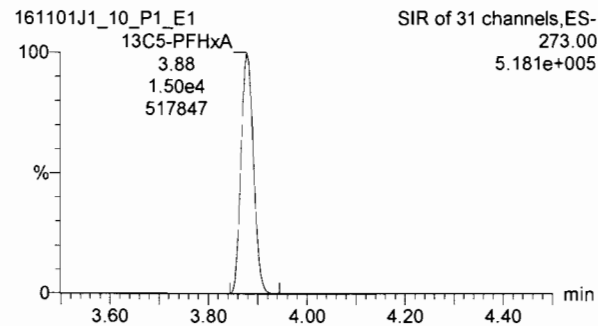
Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_10.wiff, Date: 01-Nov-2016, Time: 17:26:46, ID: ST161101J1-9 PFC CS4.5 16J2710, Description: PFC CS4.5 16J2710

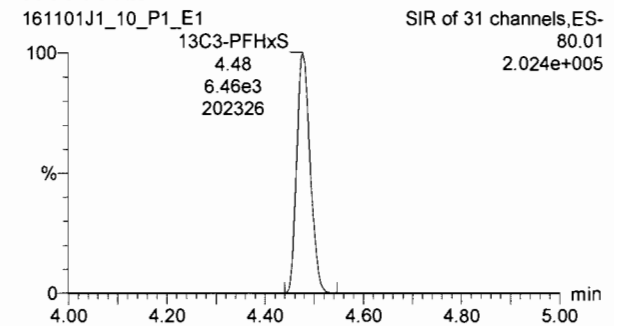
13C4-PFBA



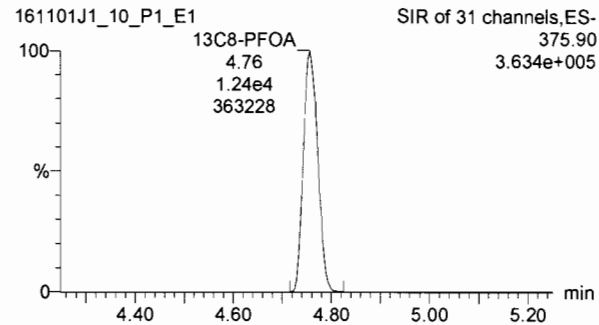
13C5-PFHxA



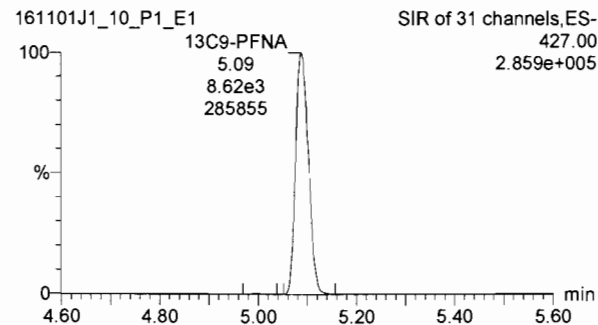
13C3-PFHxS



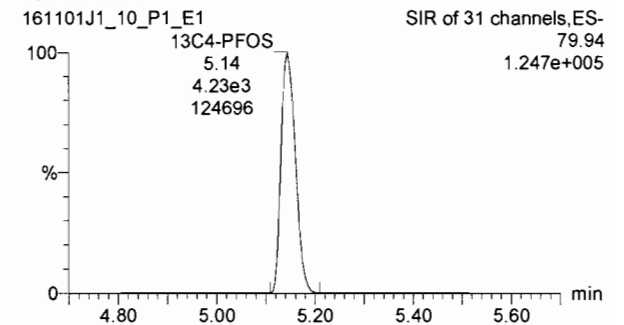
13C8-PFOA



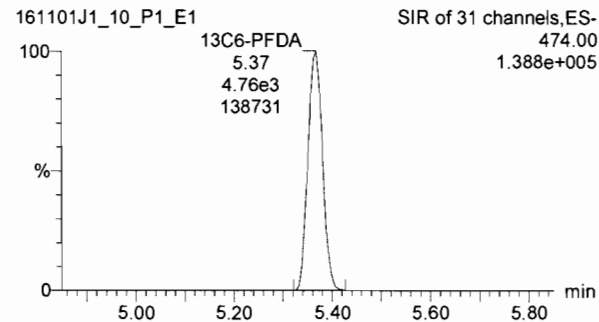
13C9-PFNA



13C4-PFOS



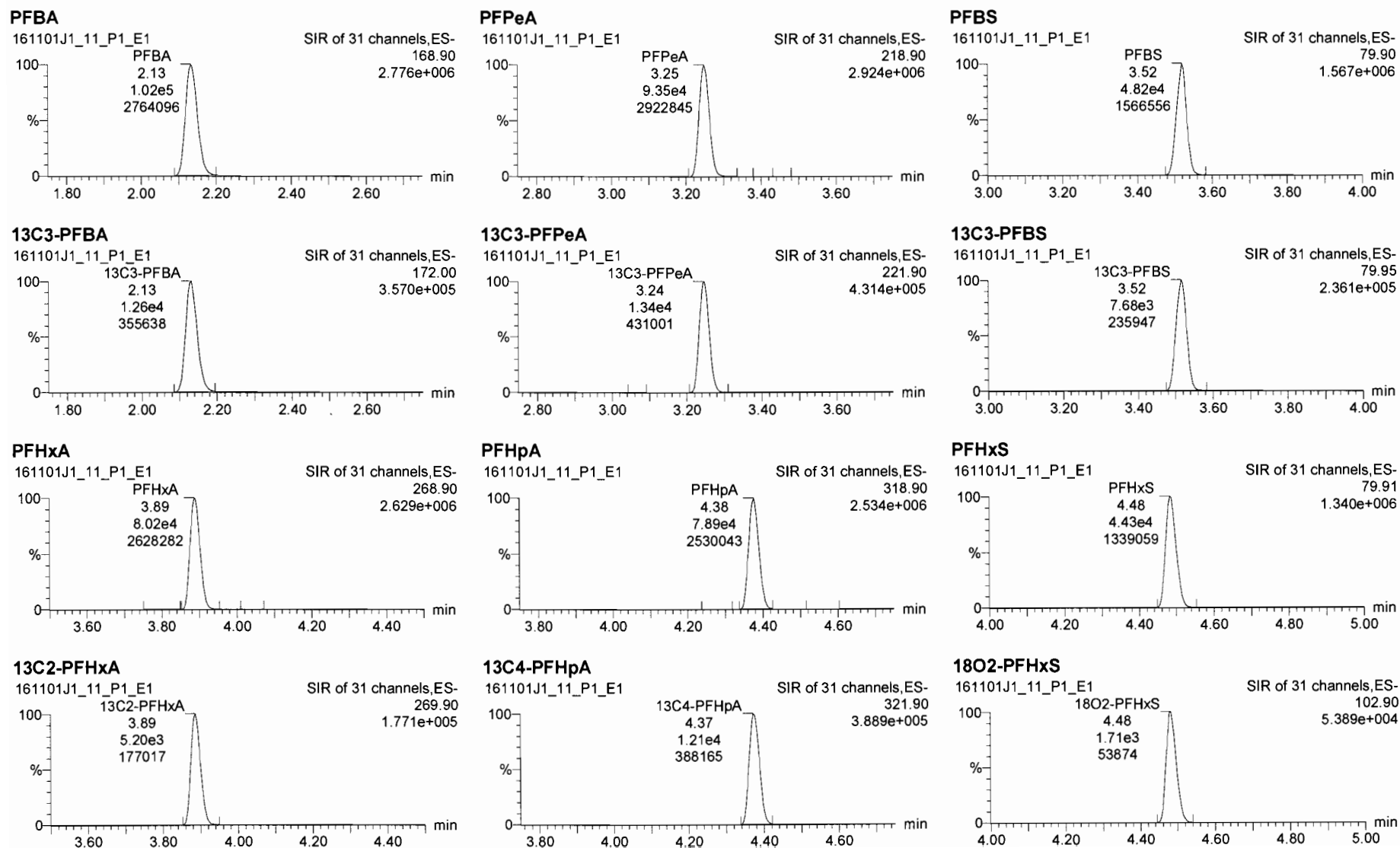
13C6-PFDA



Dataset: U:\Q2.PRO\Results\161101J1\161101J1crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_11.wiff, Date: 01-Nov-2016, Time: 17:39:00, ID: ST161101J1-10 PFC CS5 16J2711, Description: PFC CS5 16J2711



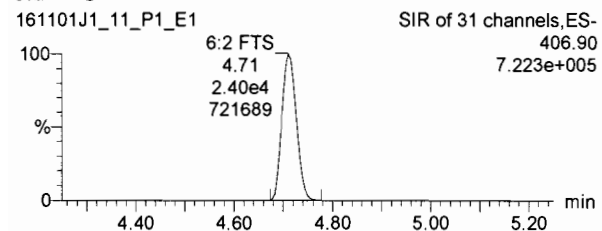
Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time

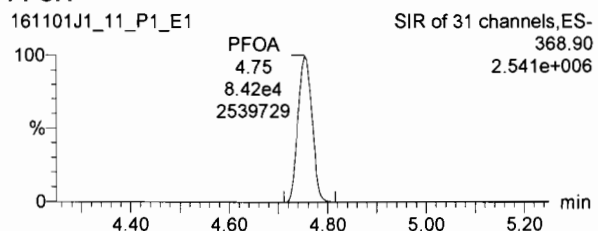
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_11.wiff, Date: 01-Nov-2016, Time: 17:39:00, ID: ST161101J1-10 PFC CS5 16J2711, Description: PFC CS5 16J2711

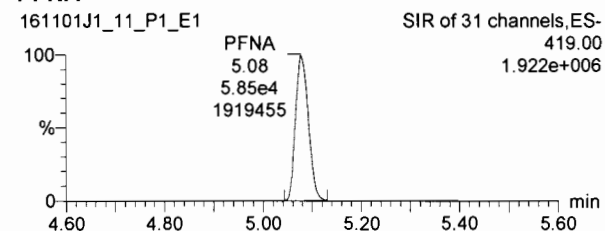
6:2 FTS



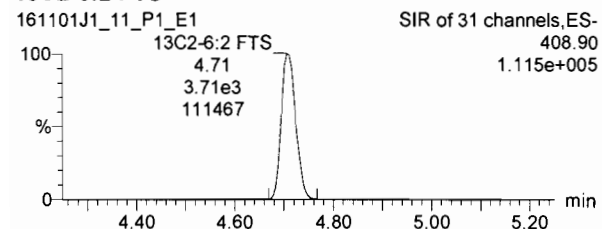
PFOA



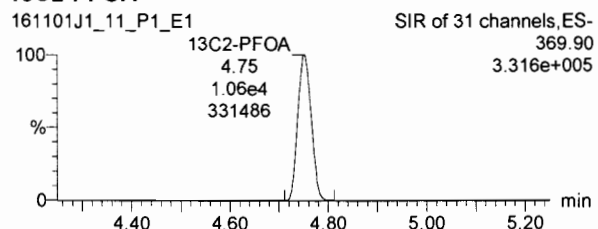
PFNA



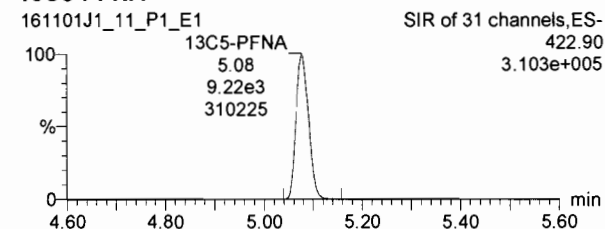
13C2-6:2 FTS



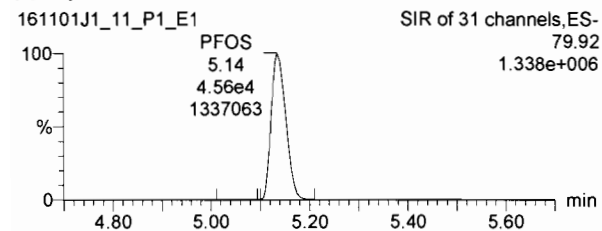
13C2-PFOA



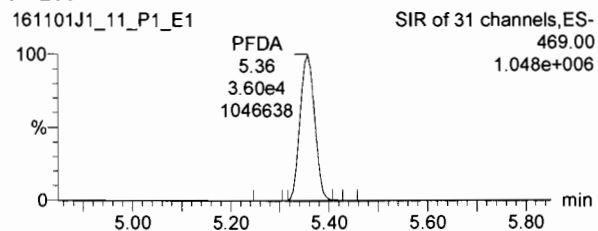
13C5-PFNA



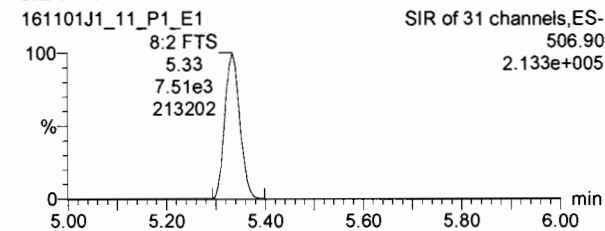
PFOS



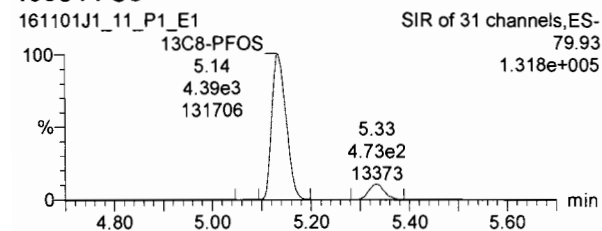
PFDA



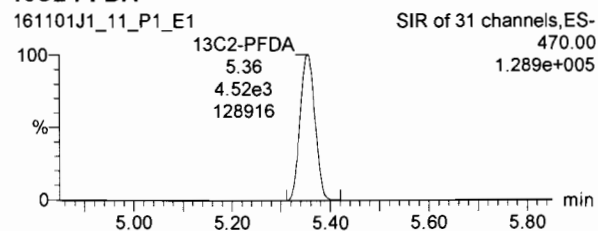
8:2 FTS



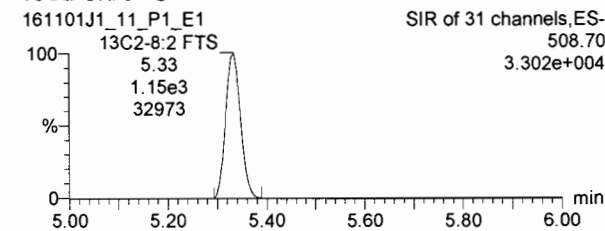
13C8-PFOS



13C2-PFDA



13C2-8:2 FTS

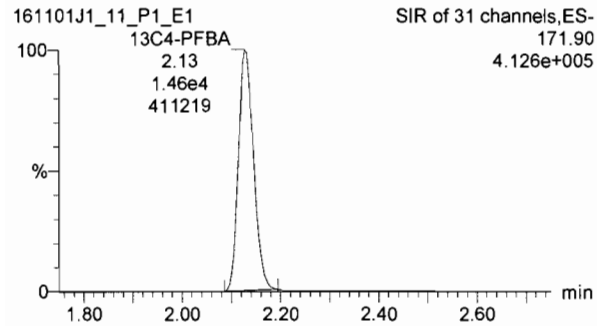


Dataset: U:\Q2.PRO\Results\161101J1\161101J1.crv.qld

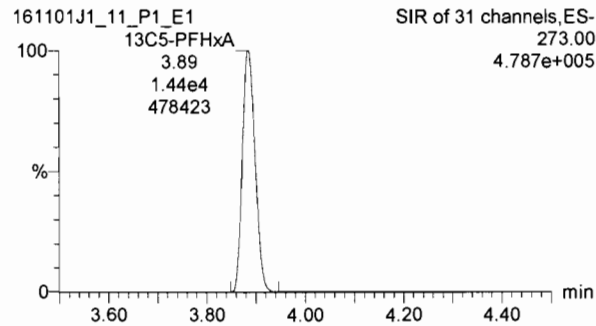
Last Altered: Wednesday, November 02, 2016 10:29:03 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:43:26 Pacific Daylight Time

Name: 161101J1_11.wiff, Date: 01-Nov-2016, Time: 17:39:00, ID: ST161101J1-10 PFC CS5 16J2711, Description: PFC CS5 16J2711

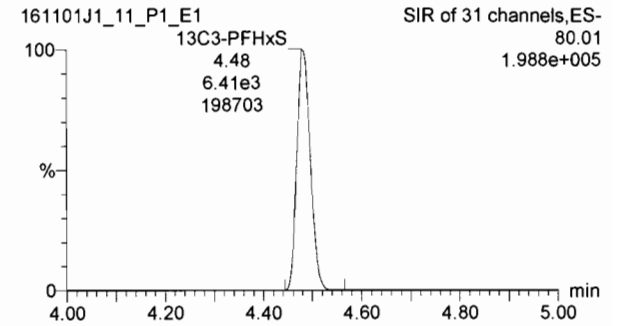
13C4-PFBA



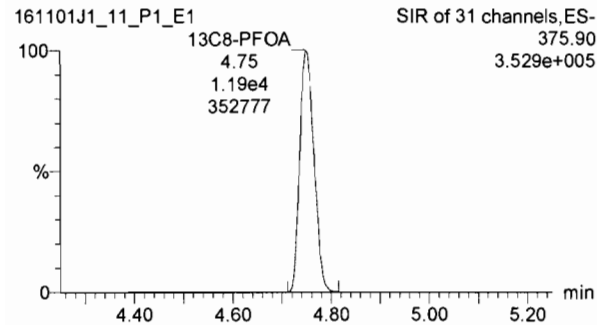
13C5-PFHxA



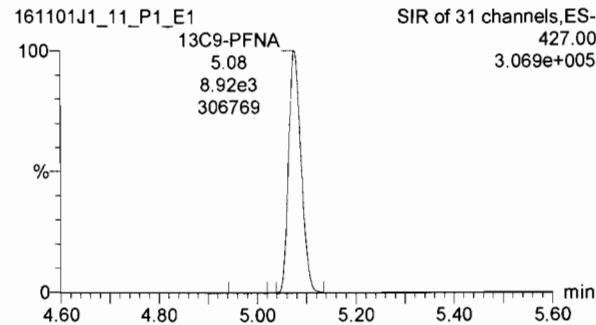
13C3-PFHxS



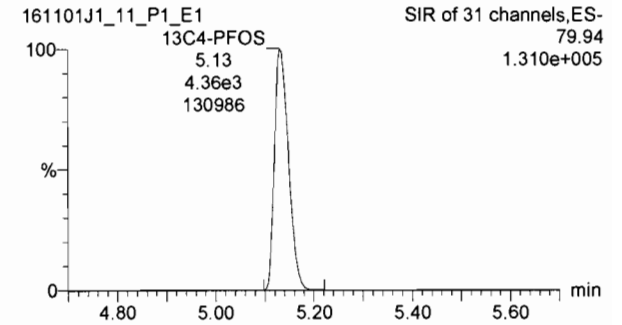
13C8-PFOA



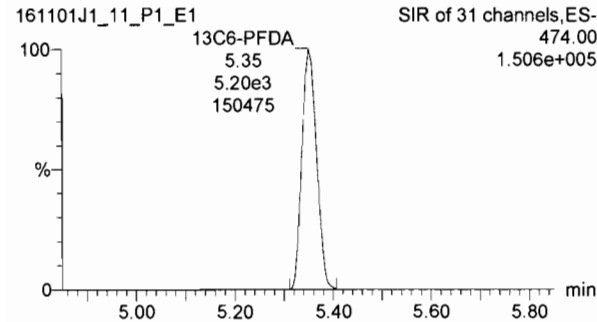
13C9-PFNA



13C4-PFOS



13C6-PFDA



Dataset: U:\Q2.PRO\Results\161102J2\161102J2_04.qld

Last Altered: Wednesday, November 02, 2016 12:45:45 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 12:45:59 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\IPFC List 18_A No4-2FTS_Linear.mdb 02 Nov 2016 10:05:52

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J2_04.wiff, Date: 02-Nov-2016, Time: 04:56:05, ID: , Description:

#	Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc.	%Rec
1	1 PFBA	168.90	2.40e4	9.87e3	1.000	2.16	2.16	29.2	116.6
2	2 PFPeA	218.90	1.77e4	1.10e4	1.000	3.26	3.26	22.4	89.5
3	3 PFBS	79.90	1.19e4	6.62e3	1.000	3.53	3.53	28.2	112.9
4	4 PFHxA	268.90	2.14e4	4.29e3	1.000	3.90	3.90	31.0	123.9
5	5 PFHpA	318.90	2.02e4	9.69e3	1.000	4.39	4.39	30.3	121.2
6	6 PFHxS	79.91	8.99e3	1.42e3	1.000	4.50	4.50	25.1	100.3
7	7 6:2 FTS	406.90	5.00e3	2.52e3	1.000	4.73	4.73	25.2	100.8
8	8 PFOA	368.90	1.71e4	7.77e3	1.000	4.77	4.77	23.0	92.0
9	9 PFNA	419.00	1.41e4	7.16e3	1.000	5.09	5.09	29.1	116.4
10	10 PFOS	79.92	7.14e3	3.42e3	1.000	5.15	5.15	21.5	85.9
11	11 PFDA	469.00	7.52e3	3.21e3	1.000	5.37	5.37	30.6	122.6
12	12 8:2 FTS	506.90	1.67e3	8.91e2	1.000	5.35	5.35	24.5	98.0
13	13 13C3-PFBA	172.00	9.87e3	1.10e4	0.870	1.000	2.16	12.9	103.0
14	14 13C3-PFPeA	221.90	1.10e4	1.21e4	0.937	1.000	3.26	12.2	97.2
15	15 13C3-PFBS	79.95	6.62e3	1.21e4	0.549	1.000	3.53	12.5	99.6
16	16 13C2-PFHxA	269.90	4.29e3	1.21e4	0.897	1.000	3.90	4.94	98.8
17	17 13C4-PFHpA	321.90	9.69e3	1.21e4	0.794	1.000	4.38	12.6	100.9
18	18 18O2-PFHxS	102.90	1.42e3	5.51e3	0.284	1.000	4.49	11.4	91.0
19	19 13C2-6:2 FTS	408.90	2.52e3	9.60e3	0.280	1.000	4.72	11.7	94.0
20	20 13C2-PFOA	369.90	7.77e3	9.60e3	0.809	1.000	4.77	12.5	100.0
21	21 13C5-PFNA	422.90	7.16e3	6.71e3	1.020	1.000	5.09	13.1	104.4
22	22 13C8-PFOS	79.93	3.42e3	3.74e3	0.947	1.000	5.15	12.1	96.6
23	23 13C2-PFDA	470.00	3.21e3	3.92e3	0.881	1.000	5.36	11.6	93.0
24	24 13C2-8:2 FTS	508.70	8.91e2	3.92e3	0.251	1.000	5.35	11.3	90.7
25	25 13C4-PFBA	171.90	1.10e4	1.10e4	1.000	1.000	2.16	12.5	100.0
26	26 13C5-PFHxA	273.00	1.21e4	1.21e4	1.000	1.000	3.90	12.5	100.0
27	27 13C3-PFHxS	80.01	5.51e3	5.51e3	1.000	1.000	4.49	12.5	100.0
28	28 13C8-PFOA	375.90	9.60e3	9.60e3	1.000	1.000	4.77	12.5	100.0
29	29 13C4-PFOS	79.94	3.74e3	3.74e3	1.000	1.000	5.15	12.5	100.0
30	30 13C9-PFNA	427.00	6.71e3	6.71e3	1.000	1.000	5.09	12.5	100.0
31	31 13C6-PFDA	474.00	3.92e3	3.92e3	1.000	1.000	5.36	12.5	100.0

Limits
75-125

↓

123.8 (A)
116.5 (A)
109.0 (A)

PW
11/2/16

(A) %Rec Calc. using linear
isomer amount in mix.

PW
11/2/16

Dataset: U:\Q2.PRO\Results\161102J2\161102J2_04.qld

Last Altered: Wednesday, November 02, 2016 12:45:45 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 12:45:59 Pacific Daylight Time

Name: 161102J2_04.wiff, Date: 02-Nov-2016, Time: 04:56:05, ID: , Description:

	# Name	Trace	Response	IS Resp	RRF	Wt/Vol	RT	Conc	%Rec
32	32 Total PFBS	79.90		6.62e3		1.000		28.2	
33	33 Total PFHxS	79.91		1.42e3		1.000		30.1	
34	34 Total PFOA	368.90		7.77e3		1.000		26.8	
35	35 Total PFOS	79.92		3.42e3		1.000		29.4	

Vista Analytical Laboratory Q1

Dataset: U:\Q2.PRO\Results\161102J2\161102J2_04.qld

Last Altered: Wednesday, November 02, 2016 12:45:45 Pacific Daylight Time

Printed: Wednesday, November 02, 2016 12:45:59 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFCL18_A No4-2FTS_Linear.mdb 02 Nov 2016 10:05:52

Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J2_04.wiff, Date: 02-Nov-2016, Time: 04:56:05, ID: , Description:

Total PFBS

	# Name	Trace	RT	Area	IS Area	Conc.
1	3 PFBS	79.90	3.53	1.19e4	6.62e3	28.2

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Conc.
1	6 PFHxS	79.91	4.50	8.99e3	1.42e3	25.1
2	33 Total PFHxS	79.91	4.40	1.81e3	1.42e3	5.02

Total PFOA

	# Name	Trace	RT	Area	IS Area	Conc.
1	8 PFOA	368.90	4.77	1.71e4	7.77e3	23.0
2	34 Total PFOA	368.90	4.67	2.98e3	7.77e3	3.75

Total PFOS

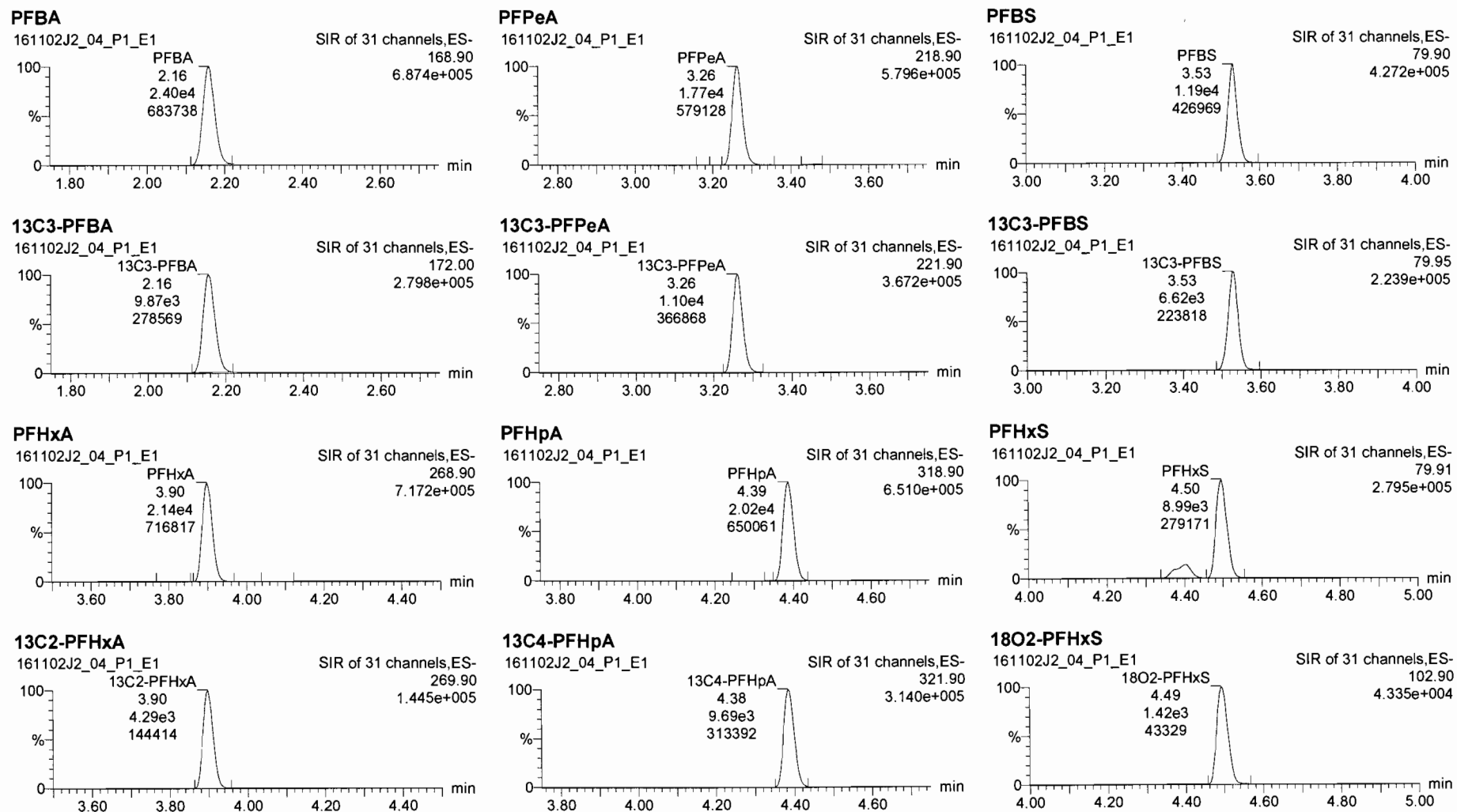
	# Name	Trace	RT	Area	IS Area	Conc.
1	10 PFOS	79.92	5.15	7.14e3	3.42e3	21.5
2	35 Total PFOS	79.92	5.07	2.50e3	3.42e3	7.58
3	35 Total PFOS	79.92	4.94	9.37e1	3.42e3	0.351

Dataset: U:\Q2.PRO\Results\161102J2\161102J2_04.qld

Last Altered: Wednesday, November 02, 2016 12:45:45 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 12:46:19 Pacific Daylight Time

Method: U:\Q2.PRO\MethDB\PFC List 18_A No4-2FTS_Linear.mdb 02 Nov 2016 10:05:52
Calibration: U:\Q2.PRO\CurveDB\C18_VAL-PFC_Q2_11-01-16_L18_A.cdb 02 Nov 2016 10:29:03

Name: 161102J2_04.wiff, Date: 02-Nov-2016, Time: 04:56:05, ID: , Description:



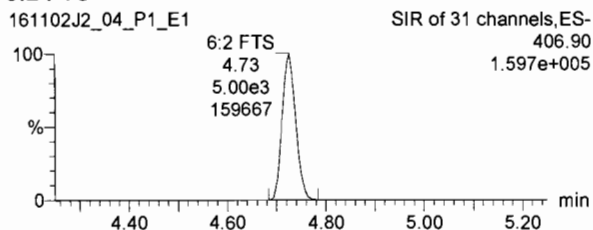
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Last Altered: Wednesday, November 02, 2016 12:45:45 Pacific Daylight Time

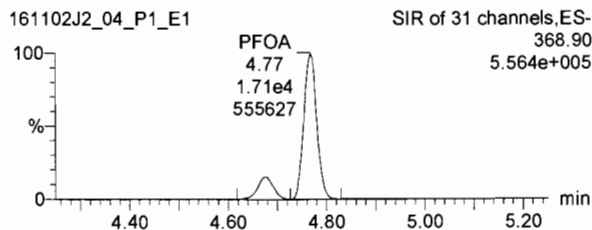
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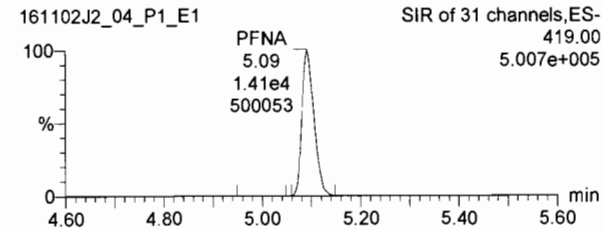
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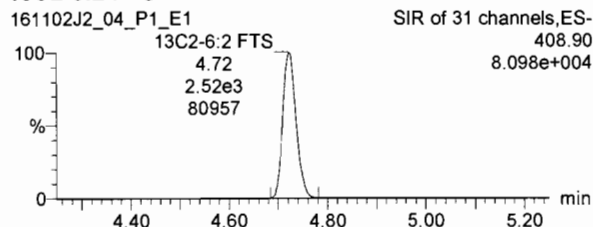
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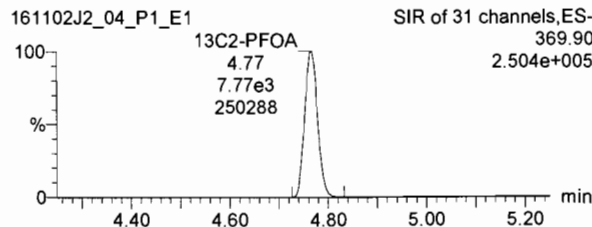
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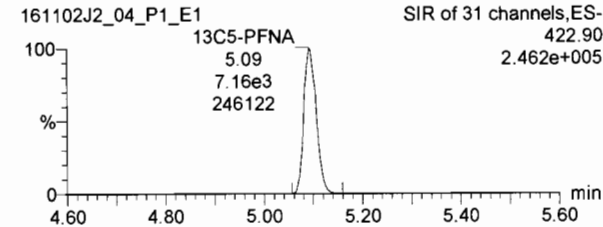
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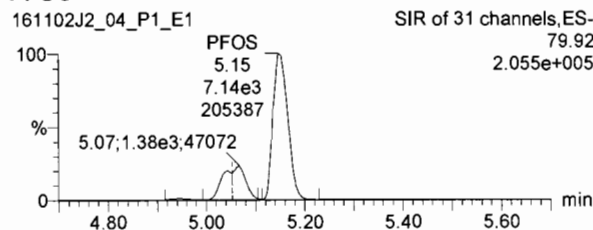
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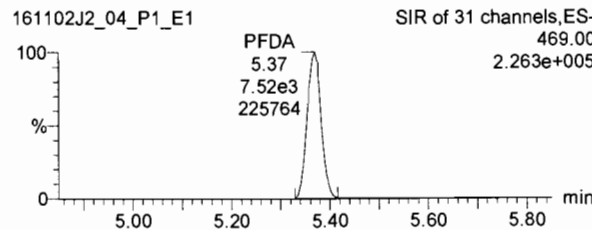
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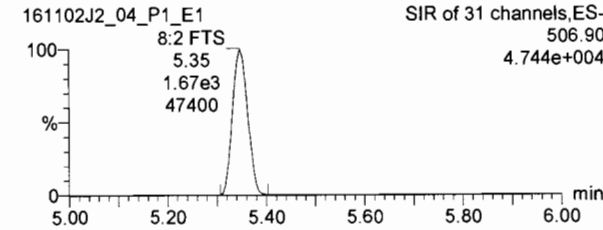
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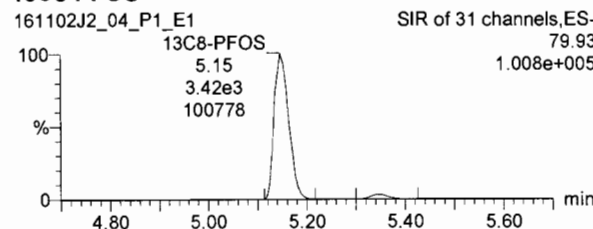
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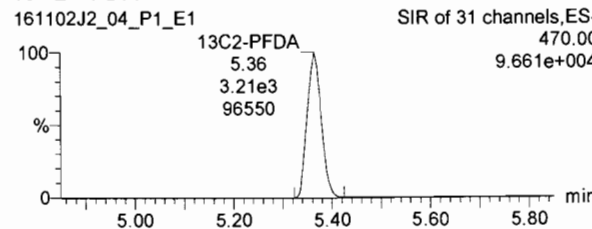
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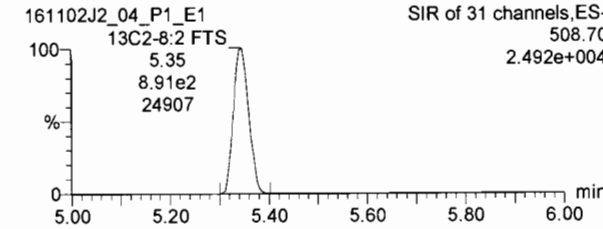
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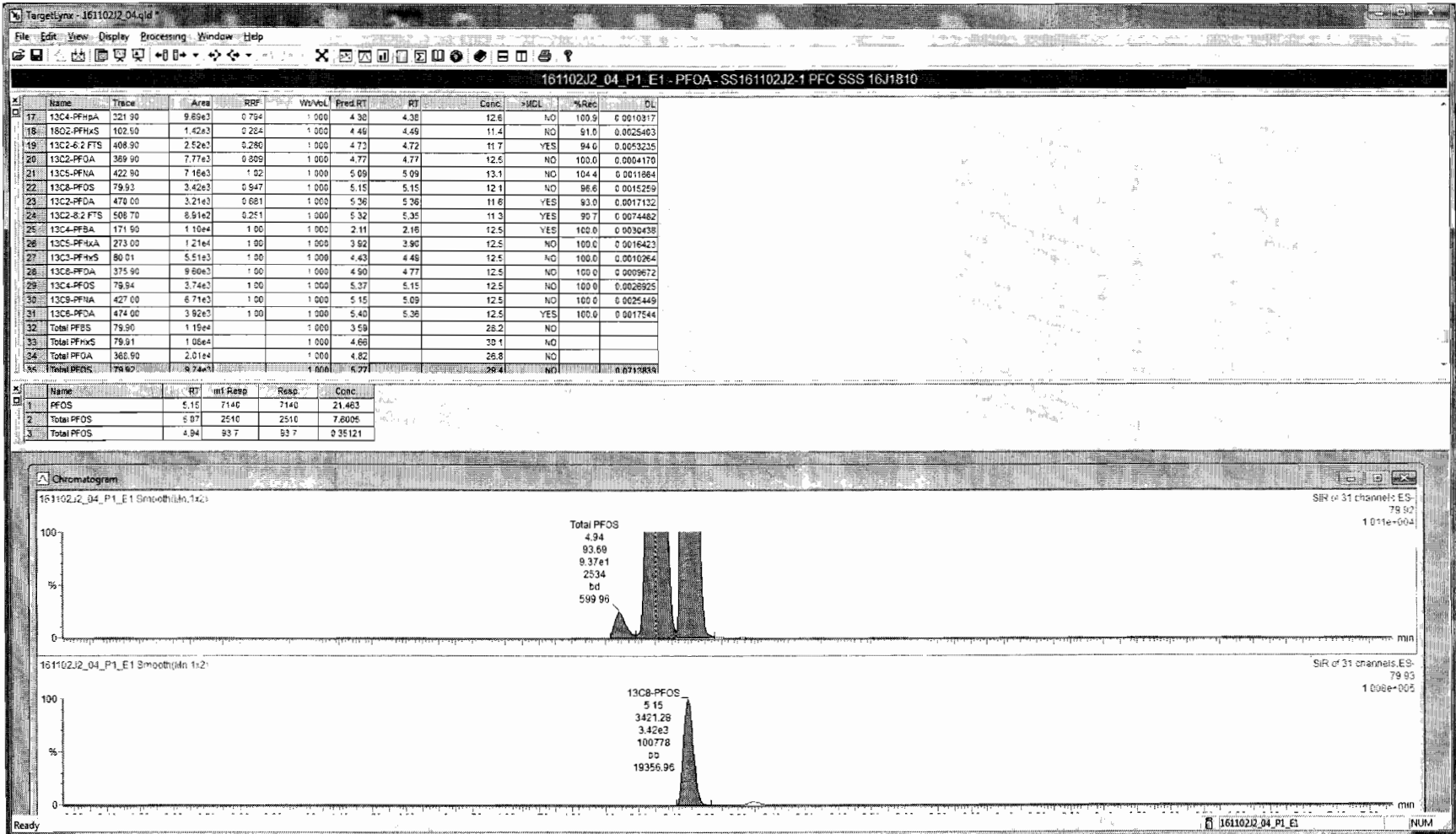


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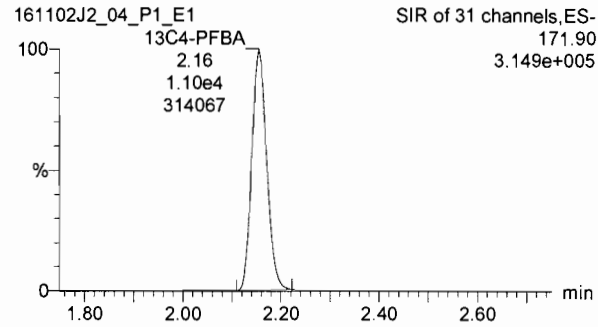


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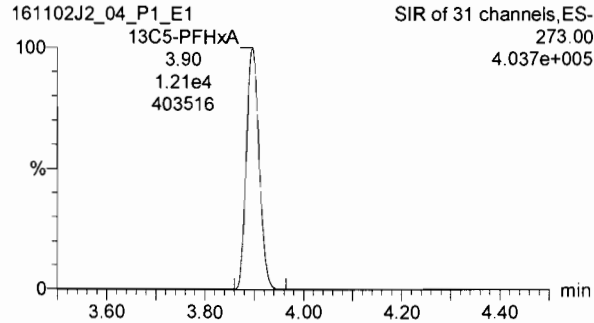
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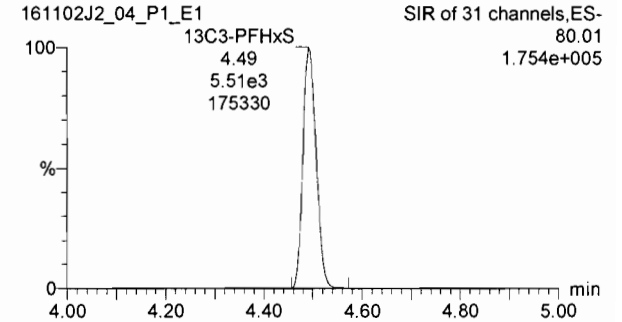
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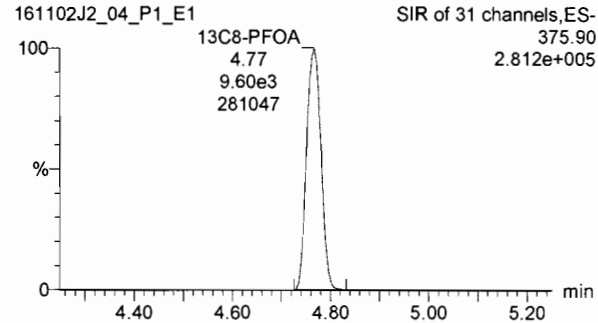
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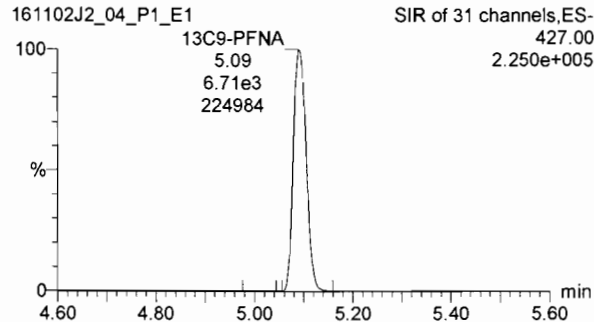
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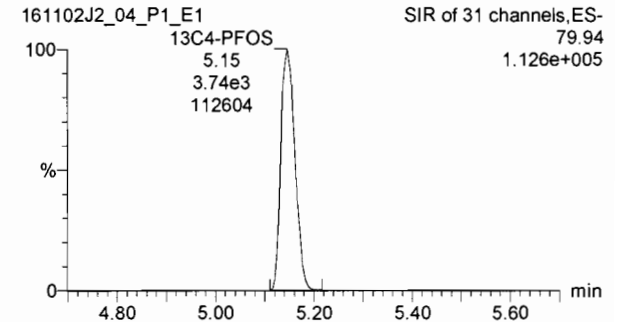
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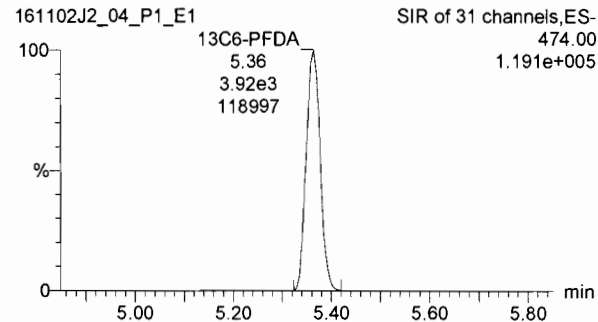
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13C4-PFOS



13C6-PFDA



Data Validation Summary

Oceana CTO-WE44, NALF Fentress

TO: Tiffany Hill/CVO
Anita Dodson/VBO

FROM: Tiffany McGlynn/GNV

CC: Herb Kelly/GNV

DATE: December 9, 2016

Introduction

The following data validation report discusses the data validation process and findings for Vista Analytical in the Sample Delivery Groups (SDGs) listed in the table below.

Samples were analyzed using the following analytical methods:

- 537 MOD Perfluorinated Hydrocarbons

The samples included in these SDGs are listed in the table below.

SDG	Sample Name	Matrix
1601370	OW11-MW9-1016	Water
1601370	OW11-MW9P-1016	Water
1601370	OW11-MW8-1016	Water
1601370	OW11-MW1-1016	Water
1601370	OW11-MW7-1016	Water
1601370	OW11-MW5-1016	Water
1601370	OW11-MW6-1016	Water
1601370	OW11-MW4-1016	Water
1601370	MW-BG13-1016	Water
1601370	MW-BG13P-1016	Water
1601370	MW-BG12-1016	Water
1601388	MW-BG07-1016	Water

SDG	Sample Name	Matrix
1601388	MW-BG06-1016	Water
1601388	MW-BG05-1016	Water
1601388	MW-BG05P-1016	Water
1601388	MW-BG04-1016	Water
1601388	OC-FB-102816	Water
1601388	MW-BG01-1016	Water
1601388	MW-BG09-1016	Water
1601388	OC-MW04-1016	Water
1601388	MW-BG11-1016	Water
1601401	203MW-19-1116	Water
1601401	JTC-MW-B-1116	Water
1601401	MW-BG10-1116	Water
1601401	OW2C-MW19-1116	Water
1601401	OW2E-MW19-1116	Water
1601401	OW2B-MW41-1116	Water
1601401	OC-EB-110216	Water
1601401	OC-MW03-1116	Water
1601401	OC-MW01-1116	Water
1601401	OC-FB-110216	Water
1601401	OC-MW02-1116	Water
1601401	OW26-MW1-1116	Water
1601401	OW26-MW1P 1116	Water
1601420	FTWG-MW-02-1116	Water
1601420	OC-EB110816	Water
1601420	OC-FB110816	Water
1601437	OW11-MW1-1016	Water
1601437	OW11-MW4-1016	Water
1601437	OW11-MW5-1016	Water
1601437	OW11-MW6-1016	Water
1601437	OW11-MW7-1016	Water
1601437	OW11-MW9-1016	Water
1601437	OW11-MW9P-1016	Water

Data Evaluation

Data was evaluated in accordance with the analytical methods and with the criteria found in the following guidance documents: Sampling and Analysis Plan Basewide Site Inspection for Perfluorinated Compounds Naval Air Station Oceana Virginia Beach, Virginia CTO-WE44 (October 2016) and National Functional Guidelines for Superfund Organic Methods Data Review (September 2016), as applicable. The samples were evaluated based on the following criteria:

- Data Completeness
- Technical Holding Times
- Tuning Instrument
- Initial/Continuing Calibrations
- Blanks
- Internal Standards
- Laboratory Control Samples
- Isotope Dilution Analyte
- Field Duplicates
- Identification/Quantitation
- Reporting Limits

Overall Evaluation of Data/Potential Usability Issues

Specific details regarding qualification of the data are addressed in the sections below. If an issue is not addressed there were no actions required based on unmet quality criteria. When more than one qualifier is associated with a compound/analyte, the validator has chosen the qualifier that best indicates possible bias in the results and qualified these data accordingly.

Data Completeness

The SDG was received complete and intact.

Technical Holding Times

According to the chain of custody records, sampling was performed on 10/25/16 through 11/8/16. Samples were received at the laboratory 10/27/16 through 11/9/16. All sample preparation and analyses were originally performed within holding time requirements with the exception of selected samples in SDG 1601437, which were re-extracted 15 days out of holding time. These samples were reanalyzed for Perfluorooctane Sulfonate (PFOS) only due to the high concentration detected in the original sample analysis. Affected data are summarized in **Attachment 1**.

Blanks

Target compounds were detected in the method blanks, equipment blanks, and field blanks as listed in the table below. Affected data are summarized in **Attachment 1**.

Blank ID	Compound	Conc.	Units
B6K0053-BLK1	Perfluorooctane Sulfonate (PFOS)	1.48	NG_L
B6K0124-BLK1	Perfluorooctane Sulfonate (PFOS)	1.71	NG_L
B6K0001-BLK1	Perfluorooctanoic acid (PFOA)	0.818	NG_L
B6K0053-BLK1	Perfluorononanoic acid (PFNA)	0.933	NG_L
OC-FB-110216	Perfluorooctanoic acid (PFOA)	0.691	NG_L
OC-EB-110216	Perfluorooctanoic acid (PFOA)	0.731	NG_L
OC-FB110816	Perfluorononanoic acid (PFNA)	0.866	NG_L
B6K0124-BLK1	Perfluoroheptanoic acid (PFHpA)	0.802	NG_L

Field Duplicate Precision

Native sample MW-BG13-1016 and field duplicate MW-BG13P-1016 did not meet precision criteria for perfluorohexanesulfonic acid (PFHxS) and PFOS. Affected data are summarized in **Attachment 1**.

Internal Standards

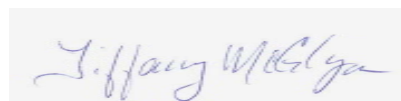
Sample MW-BG13P-1016 exhibited low recoveries in the internal standards. Samples OW26-MW1-1116 and OW26-MW1P 1116 exhibited high recoveries in the internal standards. Affected data are summarized in **Attachment 1**.

Conclusion

These data can be used in the project decision-making process as qualified by the data quality evaluation process.

Please do not hesitate to contact us about this validation report.

Sincerely,



Tiffany McGlynn

Qualification Flags

Exclude	More appropriate data exist for this analyte.
R	Data were rejected for use.
UL	Analyte not detected, quantitation limit is potentially biased low.
UJ	Analyte not detected, estimated quantitation limit.
U	Analyte not detected.
B	Not detected substantially above the level reported in laboratory or field blanks.
L	Analyte present, estimated value potentially biased low.
K	Analyte present, estimated value potentially biased high.
N	Analyte identification presumptive; no second column analysis performed or GC/MS tentative identification.
J	Analyte present, estimated value.
NJ	Analysis indicates the presence of an analyte that was "tentatively identified" and the associated value represents its approximate concentration.
None	Placeholder for calculating quality control issues that do not require flagging.
=	Analyte was detected at a concentration greater than the quantitation limit.

Qualifier Code Reference

Value	Description
%SOL	High Moisture content
2C	Second Column – Poor Dual Column Reproducibility
2S	Second Source – Bad reproducibility between tandem detectors
BD	Blank Spike/Blank Spike Duplicate(LCS/LCSD) Precision
BRL	Below Reporting Limit
BSH	Blank Spike/LCS – High Recovery
BSL	Blank Spike/LCS – Low Recovery
CC	Continuing Calibration
CCBL	Continuing Calibration Blank Contamination
CCH	Continuing Calibration Verification – High Recovery
CCL	Continuing Calibration Verification – Low Recovery
DL	Redundant Result – due to Dilution
EBL	Equipment Blank Contamination
EMPC	Estimated Possible Maximum Concentration
ESH	Extraction Standard - High Recovery
ESL	Extraction Standard - Low Recovery
FBL	Field Blank Contamination
FD	Field Duplicate
HT	Holding Time
ICB	Initial Calibration – Bad Linearity or Curve Function
ICH	Initial Calibration – High Relative Response Factors
ICL	Initial Calibration – Low Relative Response Factors
IR15	Ion ratio exceeds +/- 15% difference
ISH	Internal Standard – High Recovery
ISL	Internal Standard – Low Recovery
LD	Lab Duplicate Reproducibility
LR	Concentration Exceeds Linear Range
MBL	Method Blank Contamination
MDP	Matrix Spike/Matrix Spike Duplicate Precision
MI	Matrix interference obscuring the raw data

Value	Description
MSH	Matrix Spike and/or Matrix Spike Duplicate – High Recovery
MSL	Matrix Spike and/or Matrix Spike Duplicate – Low Recovery
OT	Other
PD	Pesticide Degradation
RE	Redundant Result - due to Reanalysis or Re-extraction
SD	Serial Dilution Reproducibility
SSH	Spiked Surrogate – High Recovery
SSL	Spiked Surrogate – Low Recovery
TBL	Trip Blank Contamination
TN	Tune

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
MW-BG13	BACKGROUND	OCEANA_NAS	WLM	Monitoring well	160137	12201118.3	3472721.49	Perfluoroalkyl Compounds	MW-BG13P-1016	WG	Ground water	26-Oct-16
OW11-MW1	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12204154.4	3469512.36	Perfluoroalkyl Compounds	OW11-MW1-	WG	Ground water	25-Oct-16
OW11-MW9	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12203595.4	3469304.89	Perfluoroalkyl Compounds	OW11-MW9P-	WG	Ground water	25-Oct-16
MW-BG13	BACKGROUND	OCEANA_NAS	WLM	Monitoring well	160137	12201118.3	3472721.49	Perfluoroalkyl Compounds	MW-BG13-1016	WG	Ground water	26-Oct-16
OW11-MW4	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12204229.7	3470008.49	Perfluoroalkyl Compounds	OW11-MW4-	WG	Ground water	26-Oct-16
OW11-MW8	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12203722.8	3469365.51	Perfluoroalkyl Compounds	OW11-MW8-	WG	Ground water	25-Oct-16
OW11-MW4	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12204229.7	3470008.49	Perfluoroalkyl Compounds	OW11-MW4-	WG	Ground water	26-Oct-16
OW11-MW8	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12203722.8	3469365.51	Perfluoroalkyl Compounds	OW11-MW8-	WG	Ground water	25-Oct-16
OW11-MW4	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12204229.7	3470008.49	Perfluoroalkyl Compounds	OW11-MW4-	WG	Ground water	26-Oct-16
OW11-MW7	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12204007.2	3469402.59	Perfluoroalkyl Compounds	OW11-MW7-	WG	Ground water	25-Oct-16
OW11-MW9	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12203595.4	3469304.89	Perfluoroalkyl Compounds	OW11-MW9-	WG	Ground water	25-Oct-16
MW-BG12	BACKGROUND	OCEANA_NAS	WLM	Monitoring well	160137	12202045.2	3469492.35	Perfluoroalkyl Compounds	MW-BG12-1016	WG	Ground water	26-Oct-16
OW11-MW6	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12204048.5	3469674.36	Perfluoroalkyl Compounds	OW11-MW6-	WG	Ground water	26-Oct-16
OW11-MW9	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12203595.4	3469304.89	Perfluoroalkyl Compounds	OW11-MW9-	WG	Ground water	25-Oct-16
OW11-MW9	SWMU 00011	OCEANA_NAS	WLM	Monitoring well	160137	12203595.4	3469304.89	Perfluoroalkyl Compounds	OW11-MW9P-	WG	Ground water	25-Oct-16
MW-BG13	BACKGROUND	OCEANA_NAS	WLM	Monitoring well	160137	12201118.3	3472721.49	Perfluoroalkyl Compounds	MW-BG13P-1016	WG	Ground water	26-Oct-16
MW-BG12	BACKGROUND	OCEANA_NAS	WLM	Monitoring well	160137	12202045.2	3469492.35	Perfluoroalkyl Compounds	MW-BG12-1016	WG	Ground water	26-Oct-16