



**Groundwater Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 1701882**

*Naval Air Station Whidbey Island
Oak Harbor, Washington*

June 2019

December 27, 2017

Vista Work Order No. 1701882

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 December 07, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'WHIDBEY ISLAND / 695610.05.FI.FS'.

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,


for

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. 1701882

Case Narrative

Sample Condition on Receipt:

Sixteen water 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. The Total Oxidizable Precursor (TOP) assay is being performed on eight of the samples; the results will be reported under separate cover.

Analytical Notes:

Modified EPA Method 537

Samples "WI-A06-6-I-01-1217" and "WI-A06-P-4-1217" contained particulate and were centrifuged prior to extraction.

The samples were extracted and analyzed for a selected list of 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 labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701882-01	WI-A06-6-I-01-1217	05-Dec-17 14:45	07-Dec-17 09:23	HDPE Bottle, 125 mL
1701882-02	WI-A06-6-I-01-1217-TOP	05-Dec-17 14:45	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-03	WI-A06-EB01-120517	05-Dec-17 08:40	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-04	WI-A06-EB01-120517-TOP	05-Dec-17 08:40	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-05	WI-A06-EB02-120517	05-Dec-17 16:20	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-06	WI-A06-EB02-120517-TOP	05-Dec-17 16:20	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-07	WI-A06-EFF01-1217	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-08	WI-A06-EFF01-1217-TOP	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-09	WI-A06-EFF01P-1217	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-10	WI-A06-EFF01P-1217-TOP	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-11	WI-A06-INF01-1217	05-Dec-17 12:15	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-12	WI-A06-INF01-1217-TOP	05-Dec-17 12:15	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-13	WI-A06-P-4-1217	05-Dec-17 10:50	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-14	WI-A06-P-4-1217-TOP	05-Dec-17 10:50	07-Dec-17 09:23	HDPE Bottle, 125 mL

Vista Project: 1701882

Client Project: WHIDBEY ISLAND / 695610.05.FI.FS

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701882-14	WI-A06-P-4-1217-TOP	05-Dec-17 10:50	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-15	WI-A06-6-I-03-1217	06-Dec-17 10:35	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-16	WI-A06-6-I-03-1217-TOP	06-Dec-17 10:35	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0138-BLK1	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.79	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFHxA	ND	2.18	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFHpA	ND	0.591	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFHxS	ND	0.947	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFOA	ND	0.651	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFOS	ND	0.807	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFNA	ND	0.810	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFDA	ND	1.49	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
MeFOSAA	ND	1.65	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFUnA	ND	1.05	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
EtFOSAA	ND	1.37	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFDoA	ND	0.792	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFTrDA	ND	0.494	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFTeDA	ND	0.755	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	109	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFHxA	IS	100	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C4-PFHpA	IS	100	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
18O2-PFHxS	IS	101	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFOA	IS	96.9	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C8-PFOS	IS	99.9	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C5-PFNA	IS	96.9	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFDA	IS	90.1	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
d3-MeFOSAA	IS	74.3	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFUnA	IS	68.5	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
d5-EtFOSAA	IS	89.0	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFDoA	IS	83.4	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFTeDA	IS	82.8	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: LCSD

Modified EPA Method 537

Name:	CH2M Hill	Lab Sample:	B7L0138-BS1/B7L0138-BSD1	Date Extracted:	19-Dec-17
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	QC Batch:	B7L0138	Column:	BEH C18
Matrix:	Aqueous	Samp Size:	0.125/0.125 L		

Analyte	LCS (ng/L)	LCS Spike Amt	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike Amt	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBS	81.1	80.0	101		76.2	80.0	95.2	6.30		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFHxA	78.5	80.0	98.2		78.2	80.0	97.7	0.441		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFHpA	69.8	80.0	87.2		79.0	80.0	98.7	12.4		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFHxS	94.0	80.0	117		90.8	80.0	114	3.37		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFOA	78.1	80.0	97.6		79.6	80.0	99.5	1.99		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFOS	78.2	80.0	97.7		86.9	80.0	109	10.5		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFNA	75.6	80.0	94.5		87.7	80.0	110	14.7		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFDA	65.6	80.0	82.0		69.3	80.0	86.6	5.51		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
MeFOSAA	64.9	80.0	81.2		62.7	80.0	78.4	3.52		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFUnA	80.9	80.0	101		82.9	80.0	104	2.42		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
EtFOSAA	56.3	80.0	70.3		65.0	80.0	81.2	14.3		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFDoA	91.3	80.0	114		60.8	80.0	76.0	40.0		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFTTrDA	52.7	80.0	65.8		50.6	80.0	63.3	3.93		60-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFTeDA	76.7	80.0	95.9		81.4	80.0	102	6.00		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1

Labeled Standards	Type	LCS % Rec	LCS Quals	LCSD % Rec	LCSD Quals	Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS	102		117		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFHxA	IS	105		112		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C4-PFHpA	IS	105		107		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
18O2-PFHxS	IS	98.6		87.2		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFOA	IS	95.7		94.0		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C8-PFOS	IS	103		90.2		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C5-PFNA	IS	92.9		113		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFDA	IS	99.9		81.0		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
d3-MeFOSAA	IS	85.6		105		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFUnA	IS	72.7		73.7		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
d5-EtFOSAA	IS	94.7		96.3		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFDoA	IS	74.1		105		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFTeDA	IS	88.3		96.3		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1

Sample ID: WI-A06-6-I-01-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-01	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 14:45	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHxA	ND	2.36	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHpA	ND	0.639	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHxS	ND	1.02	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOA	1.09	0.703	5.39	8.64	J	B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOS	ND	0.872	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFNA	ND	0.875	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFDA	ND	1.61	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
MeFOSAA	ND	1.78	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOxA	ND	1.13	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
EtFOSAA	ND	1.48	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOxA	ND	0.856	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFTeDA	ND	0.534	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFTeDA	ND	0.816	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	115	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFHxA	IS	109	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C4-PFHpA	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
18O2-PFHxS	IS	92.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFOA	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C8-PFOS	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C5-PFNA	IS	109	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFDA	IS	98.0	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
d3-MeFOSAA	IS	114	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFOxA	IS	97.8	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
d5-EtFOSAA	IS	125	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFOxA	IS	105	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFTeDA	IS	96.0	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EB01-120517

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-03	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 08:40	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.94	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHxA	ND	2.37	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHpA	ND	0.642	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHxS	ND	1.03	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOA	ND	0.707	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOS	ND	0.876	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFNA	ND	0.879	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFDA	ND	1.62	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
MeFOSAA	ND	1.79	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOxA	ND	1.14	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
EtFOSAA	ND	1.49	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOxA	ND	0.860	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFTeDA	ND	0.536	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFTeDA	ND	0.820	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	105	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFHxA	IS	108	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C4-PFHpA	IS	119	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
18O2-PFHxS	IS	121	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFOA	IS	116	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C8-PFOS	IS	93.0	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C5-PFNA	IS	111	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFDA	IS	89.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
d3-MeFOSAA	IS	116	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFOxA	IS	85.5	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
d5-EtFOSAA	IS	118	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFOxA	IS	108	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFTeDA	IS	110	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EB02-120517

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-05	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 16:20	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.89	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHxA	ND	2.30	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHpA	ND	0.623	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHxS	ND	0.999	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFOA	ND	0.687	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFOS	ND	0.851	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFNA	ND	0.854	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFDA	ND	1.57	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
MeFOSAA	ND	1.74	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFUnA	ND	1.11	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
EtFOSAA	ND	1.44	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFDoA	ND	0.835	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFTrDA	ND	0.521	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFTeDA	ND	0.796	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	117	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFHxA	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C4-PFHpA	IS	116	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
18O2-PFHxS	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFOA	IS	114	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C8-PFOS	IS	89.2	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C5-PFNA	IS	93.1	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFDA	IS	92.8	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
d3-MeFOSAA	IS	70.7	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFUnA	IS	69.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
d5-EtFOSAA	IS	86.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFDoA	IS	74.3	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFTeDA	IS	73.1	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EFF01-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-07	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 12:10	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.5	1.94	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHxA	40.7	2.36	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHpA	11.8	0.640	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHxS	43.0	1.03	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	35.8	0.705	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOS	ND	0.874	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFNA	ND	0.877	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFDA	ND	1.61	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
MeFOSAA	ND	1.79	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	1.14	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
EtFOSAA	ND	1.48	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	0.858	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	0.535	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	0.818	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	98.2	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFHxA	IS	98.6	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C4-PFHpA	IS	98.9	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
18O2-PFHxS	IS	121	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	109	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C8-PFOS	IS	105	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C5-PFNA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFDA	IS	92.2	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
d3-MeFOSAA	IS	101	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	92.5	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
d5-EtFOSAA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	90.4	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EFF01P-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-09	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 12:10	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.0	1.93	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHxA	37.4	2.35	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHpA	11.3	0.637	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHxS	49.2	1.02	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOA	28.6	0.702	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOS	ND	0.870	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFNA	ND	0.873	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFDA	ND	1.61	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
MeFOSAA	ND	1.78	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOxA	ND	1.13	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
EtFOSAA	ND	1.48	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOxA	ND	0.854	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFTeDA	ND	0.533	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFTeDA	ND	0.814	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	92.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFHxA	IS	104	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C4-PFHpA	IS	93.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
18O2-PFHxS	IS	102	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFOA	IS	130	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C8-PFOS	IS	94.2	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C5-PFNA	IS	88.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFDA	IS	77.1	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
d3-MeFOSAA	IS	103	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFOxA	IS	110	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
d5-EtFOSAA	IS	97.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFOxA	IS	126	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFTeDA	IS	116	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-INF01-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-11	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 12:15	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.6	1.95	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHxA	39.5	2.38	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHpA	11.3	0.645	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHxS	45.7	1.03	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOA	35.1	0.710	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOS	ND	0.880	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFNA	ND	0.884	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFDA	ND	1.63	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
MeFOSAA	ND	1.80	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOxA	ND	1.15	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
EtFOSAA	ND	1.49	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFDoA	ND	0.864	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFTeDA	ND	0.539	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFTeDA	ND	0.824	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	102	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFHxA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C4-PFHpA	IS	112	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
18O2-PFHxS	IS	112	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFOA	IS	104	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C8-PFOS	IS	91.6	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C5-PFNA	IS	82.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFDA	IS	104	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
d3-MeFOSAA	IS	96.0	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFOxA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
d5-EtFOSAA	IS	90.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFDoA	IS	113	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFTeDA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-P-4-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-13	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 10:50	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	9.73	1.88	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHxA	34.3	2.29	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHpA	11.9	0.622	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHxS	35.0	0.996	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFOA	58.2	0.685	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFOS	ND	0.849	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFNA	1.49	0.852	5.25	8.42	J	B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFDA	ND	1.57	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
MeFOSAA	ND	1.74	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFUnA	ND	1.10	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
EtFOSAA	ND	1.44	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFDoA	ND	0.833	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFTrDA	ND	0.520	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFTeDA	ND	0.794	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	107	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFHxA	IS	111	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C4-PFHpA	IS	101	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
18O2-PFHxS	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFOA	IS	111	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C8-PFOS	IS	118	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C5-PFNA	IS	89.7	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFDA	IS	127	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
d3-MeFOSAA	IS	97.4	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFUnA	IS	75.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
d5-EtFOSAA	IS	90.4	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFDoA	IS	95.5	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFTeDA	IS	85.8	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-6-I-03-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-15	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	06-Dec-17 10:35	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.04	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHxA	ND	2.48	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHpA	ND	0.673	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHxS	ND	1.08	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFOA	ND	0.741	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFOS	ND	0.919	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFNA	ND	0.922	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFDA	ND	1.70	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
MeFOSAA	ND	1.88	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFUnA	ND	1.20	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
EtFOSAA	ND	1.56	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFDoA	ND	0.902	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFTrDA	ND	0.563	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFTeDA	ND	0.860	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	105	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFHxA	IS	98.7	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C4-PFHpA	IS	97.8	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
18O2-PFHxS	IS	132	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFOA	IS	102	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C8-PFOS	IS	114	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C5-PFNA	IS	85.8	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFDA	IS	97.6	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
d3-MeFOSAA	IS	101	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFUnA	IS	80.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
d5-EtFOSAA	IS	84.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFDoA	IS	75.3	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFTeDA	IS	84.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, 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.
M	Estimated Maximum Possible Concentration. (CA Region 2 projects only)
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
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

1701882 3.4°C

CH2MHILL

CHAIN OF CUSTODY RECORD

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			Container:	2x 125mL	4x 125mL	Number of Containers	COMMENTS	
Project Name			Preservatives:	≤ 6°C	≤ 6°C			
Location NASWI, Oak Harbor, Washingt				Filtered:	NA			NA
Project Number 695610.05.FI.FS					Holding Time:			7
Project Manager Heather Perry				PFAS (14 analyte list)		PFAS (14 analyte list) TOP		
Sample Manager Tiffany Hill (541) 908-3794								
Task Order								
Project WHIDBEY ISLAND								
Turnaround Time 7 Days								
Shipping Date: 12/6/2017								
COC Number: VAL-120617								
DATE	TIME	Matrix						
✓ WI-A06-6-I-01-1217	12/5/2017 14:45	Water	X			2		
✓ WI-A06-6-I-01-1217-TOP	12/5/2017 14:45	Water		X		4		
✓ WI-A06-EB01-120517	12/5/2017 8:40	Water	X			2		
✓ WI-A06-EB01-120517-TOP	12/5/2017 8:40	Water		X		4		
✓ WI-A06-EB02-120517	12/5/2017 16:20	Water	X			2		
✓ WI-A06-EB02-120517-TOP	12/5/2017 16:20	Water		X		4		
✓ WI-A06-EFF01-1217	12/5/2017 12:10 12:05	Water	X			2		
✓ WI-A06-EFF01-1217-TOP	12/5/2017 12:10 12:05	Water		X		4		
✓ WI-A06-EFF01P-1217	12/5/2017 12:10	Water	X			2		
✓ WI-A06-EFF01P-1217-TOP	12/5/2017 12:10	Water		X		4		
✓ WI-A06-INF01-1217	12/5/2017 12:15	Water	X			2		
✓ WI-A06-INF01-1217-TOP	12/5/2017 12:15	Water		X		4		
✓ WI-A06-P-4-1217	12/5/2017 10:50	Water	X			2		
✓ WI-A06-P-4-1217-TOP	12/5/2017 10:50	Water		X		4		

Approved by <i>[Signature]</i> Sampled by D. Butler & S. Fitzsimmons Relinquished by Received by <i>[Signature]</i> Relinquished by <i>[Signature]</i> Received by <i>[Signature]</i>	Date/Time 12/06/17 12/06/17 12/06/17 12/07/17 1007	Shipping Details Method of Shipment: FedEx On Ice: <input checked="" type="radio"/> yes <input type="radio"/> no Airbill No: Lab Name: Vista Analytical Laboratory Lab Phone: (916) 673-1520	ATTN: Sample Custody and Martha Maier	Special Instructions: Report Copy to Heather.Perry@CH2M.com (530) 229-3276 x33276
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1701882

CH2MHILL

CHAIN OF CUSTODY RECORD

12/5/2017 8:39:15 PM

Page 2 OF 2

Project Name Location NASWI, Oak Harbor, Washing Project Number 695610.05.FI.FS Project Manager Heather Perry Sample Manager Tiffany Hill (541) 908-3794 Task Order Project WHIDBEY ISLAND Turnaround Time 7 Days Shipping Date: 12/6/2017 COC Number: VAL-120617			Container: 2x 125mL 4x 125mL Preservatives: ≤ 6°C ≤ 6°C Filtered: NA NA Holding Time: 7 7	PFAS (14 analyte list) PFAS (14 analyte list) TOP	Number of Containers	COMMENTS	
DATE TIME Matrix							
✓ WI-A06-6-I-03-1217	12/6/2017	10:35	Water	X		2	
✓ WI-A06-6-I-03-1217-TOP	12/6/2017	10:35	Water		X	4	
WI-A06-6-S-17-1217	12/6/2017		Water	X		2	
WI-A06-6-S-17-1217-TOP	12/6/2017		Water		X	4	
WI-A06-EB03-1217	12/6/2017		Water	X		2	
WI-A06-EB03-1217-TOP	12/6/2017		Water		X	4	
WI-A06-MW-10-1217	12/6/2017		Water	X		2	
WI-A06-MW-10-1217-TOP	12/6/2017		Water		X	4	
TOTAL NUMBER OF CONTAINERS						46	48

Approved by <i>[Signature]</i> Signatures Sampled by D. Butler & S. Fitzsimmons Relinquished by Received by Relinquished by <i>[Signature]</i> Date/Time 12/06/17 Received by <i>[Signature]</i> 12/07/17 1007	Shipping Details Method of Shipment: FedEx On Ice: <input checked="" type="radio"/> yes / <input type="radio"/> no Airbill No: Lab Name: Vista Analytical Laboratory Lab Phone: (916) 673-1520	ATTN: Sample Custody and Martha Maier	Special Instructions: Report Copy to Heather.Perry@CH2M.com (530) 229-3276 x33276
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Sample Log-in Checklist

Vista Work Order #: 1701882 TAT 14 days

Samples Arrival:	Date/Time: 12/07/17 0923	Initials: CBB	Location: WR-2
			Shelf/Rack: NA
Logged In:	Date/Time: 12/07/17 1438	Initials: MWS	Location: WR-2
			Shelf/Rack: B-5
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GSO	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: 3.4 (uncorrected)	Time: 1014	Thermometer ID: DT-3	
Temp °C: 3.4 (corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input 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 # 788 782338259	✓	
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:	Na ₂ S ₂ O ₃	Trizma	<input checked="" type="radio"/> None
			<input checked="" type="radio"/> Yes
	No	NA	
Shipping Container	<input checked="" type="radio"/> Vista	Client	<input checked="" type="radio"/> Retain
		Return	Dispose

Comments: W1-206-P-4-1217] MWS
~~W1-206-P-4-1217~~] 12/07/17
W1-206-P-4-1217-TOP] — sediment present in samples

December 27, 2017

Vista Work Order No. 1701882

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 December 07, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'WHIDBEY ISLAND / 695610.05.FI.FS'.

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,



for

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. 1701882

Case Narrative

Sample Condition on Receipt:

Sixteen water 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. The Total Oxidizable Precursor (TOP) assay is being performed on eight of the samples; the results will be reported under separate cover.

Analytical Notes:

Modified EPA Method 537

Samples "WI-A06-6-I-01-1217" and "WI-A06-P-4-1217" contained particulate and were centrifuged prior to extraction.

The samples were extracted and analyzed for a selected list of 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 labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701882-01	WI-A06-6-I-01-1217	05-Dec-17 14:45	07-Dec-17 09:23	HDPE Bottle, 125 mL
1701882-02	WI-A06-6-I-01-1217-TOP	05-Dec-17 14:45	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-03	WI-A06-EB01-120517	05-Dec-17 08:40	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-04	WI-A06-EB01-120517-TOP	05-Dec-17 08:40	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-05	WI-A06-EB02-120517	05-Dec-17 16:20	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-06	WI-A06-EB02-120517-TOP	05-Dec-17 16:20	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-07	WI-A06-EFF01-1217	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-08	WI-A06-EFF01-1217-TOP	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-09	WI-A06-EFF01P-1217	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-10	WI-A06-EFF01P-1217-TOP	05-Dec-17 12:10	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-11	WI-A06-INF01-1217	05-Dec-17 12:15	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-12	WI-A06-INF01-1217-TOP	05-Dec-17 12:15	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-13	WI-A06-P-4-1217	05-Dec-17 10:50	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-14	WI-A06-P-4-1217-TOP	05-Dec-17 10:50	07-Dec-17 09:23	HDPE Bottle, 125 mL

Vista Project: 1701882

Client Project: WHIDBEY ISLAND / 695610.05.FI.FS

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701882-14	WI-A06-P-4-1217-TOP	05-Dec-17 10:50	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-15	WI-A06-6-I-03-1217	06-Dec-17 10:35	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701882-16	WI-A06-6-I-03-1217-TOP	06-Dec-17 10:35	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank **Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0138-BLK1	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.79	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFHxA	ND	2.18	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFHpA	ND	0.591	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFHxS	ND	0.947	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFOA	ND	0.651	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFOS	ND	0.807	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFNA	ND	0.810	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFDA	ND	1.49	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
MeFOSAA	ND	1.65	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFUnA	ND	1.05	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
EtFOSAA	ND	1.37	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFDoA	ND	0.792	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFTrDA	ND	0.494	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
PFTeDA	ND	0.755	5.00	8.00		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	109	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFHxA	IS	100	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C4-PFHpA	IS	100	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
18O2-PFHxS	IS	101	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFOA	IS	96.9	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C8-PFOS	IS	99.9	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C5-PFNA	IS	96.9	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFDA	IS	90.1	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
d3-MeFOSAA	IS	74.3	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFUnA	IS	68.5	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
d5-EtFOSAA	IS	89.0	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFDoA	IS	83.4	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1
13C2-PFTeDA	IS	82.8	50 - 150		B7L0138	19-Dec-17	0.125 L	23-Dec-17 16:07	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: LCSD
Modified EPA Method 537

Name:	CH2M Hill	Lab Sample:	B7L0138-BS1/B7L0138-BSD1	Date Extracted:	19-Dec-17
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	QC Batch:	B7L0138	Column:	BEH C18
Matrix:	Aqueous	Samp Size:	0.125/0.125 L		

Analyte	LCS (ng/L)	LCS Spike Amt	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike Amt	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBS	81.1	80.0	101		76.2	80.0	95.2	6.30		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFHxA	78.5	80.0	98.2		78.2	80.0	97.7	0.441		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFHpA	69.8	80.0	87.2		79.0	80.0	98.7	12.4		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFHxS	94.0	80.0	117		90.8	80.0	114	3.37		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFOA	78.1	80.0	97.6		79.6	80.0	99.5	1.99		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFOS	78.2	80.0	97.7		86.9	80.0	109	10.5		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFNA	75.6	80.0	94.5		87.7	80.0	110	14.7		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFDA	65.6	80.0	82.0		69.3	80.0	86.6	5.51		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
MeFOSAA	64.9	80.0	81.2		62.7	80.0	78.4	3.52		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFUnA	80.9	80.0	101		82.9	80.0	104	2.42		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
EtFOSAA	56.3	80.0	70.3		65.0	80.0	81.2	14.3		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFDoA	91.3	80.0	114		60.8	80.0	76.0	40.0		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFTTrDA	52.7	80.0	65.8		50.6	80.0	63.3	3.93		60-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1
PFTeDA	76.7	80.0	95.9		81.4	80.0	102	6.00		70-130		23-Dec-17 15:33	1	23-Dec-17 15:44	1

Labeled Standards	Type	LCS % Rec	LCS Quals	LCSD % Rec	LCSD Quals	Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS	102		117		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFHxA	IS	105		112		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C4-PFHpA	IS	105		107		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
18O2-PFHxS	IS	98.6		87.2		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFOA	IS	95.7		94.0		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C8-PFOS	IS	103		90.2		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C5-PFNA	IS	92.9		113		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFDA	IS	99.9		81.0		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
d3-MeFOSAA	IS	85.6		105		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFUnA	IS	72.7		73.7		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
d5-EtFOSAA	IS	94.7		96.3		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFDoA	IS	74.1		105		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1
13C2-PFTeDA	IS	88.3		96.3		50-150	23-Dec-17 15:33	1	23-Dec-17 15:44	1

Sample ID: WI-A06-6-I-01-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-01	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 14:45	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHxA	ND	2.36	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHpA	ND	0.639	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHxS	ND	1.02	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOA	1.09	0.703	5.39	8.64	J	B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOS	ND	0.872	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFNA	ND	0.875	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFDA	ND	1.61	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
MeFOSAA	ND	1.78	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOA	ND	1.13	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
EtFOSAA	ND	1.48	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOA	ND	0.856	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOA	ND	0.534	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOA	ND	0.816	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	115	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFHxA	IS	109	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C4-PFHpA	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
18O2-PFHxS	IS	92.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFOA	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C8-PFOS	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C5-PFNA	IS	109	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFDA	IS	98.0	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
d3-MeFOSAA	IS	114	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFOA	IS	97.8	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
d5-EtFOSAA	IS	125	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFOA	IS	105	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
13C2-PFOA	IS	96.0	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EB01-120517

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-03	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 08:40	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.94	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHxA	ND	2.37	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHpA	ND	0.642	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHxS	ND	1.03	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOA	ND	0.707	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOS	ND	0.876	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFNA	ND	0.879	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFDA	ND	1.62	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
MeFOSAA	ND	1.79	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOxA	ND	1.14	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
EtFOSAA	ND	1.49	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOxA	ND	0.860	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFTeDA	ND	0.536	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFTeDA	ND	0.820	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	105	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFHxA	IS	108	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C4-PFHpA	IS	119	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
18O2-PFHxS	IS	121	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFOA	IS	116	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C8-PFOS	IS	93.0	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C5-PFNA	IS	111	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFDA	IS	89.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
d3-MeFOSAA	IS	116	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFOxA	IS	85.5	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
d5-EtFOSAA	IS	118	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFOxA	IS	108	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
13C2-PFTeDA	IS	110	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EB02-120517

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-05	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 16:20	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.89	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHxA	ND	2.30	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHpA	ND	0.623	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHxS	ND	0.999	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFOA	ND	0.687	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFOS	ND	0.851	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFNA	ND	0.854	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFDA	ND	1.57	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
MeFOSAA	ND	1.74	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFUnA	ND	1.11	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
EtFOSAA	ND	1.44	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFDoA	ND	0.835	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFTrDA	ND	0.521	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFTeDA	ND	0.796	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	117	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFHxA	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C4-PFHpA	IS	116	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
18O2-PFHxS	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFOA	IS	114	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C8-PFOS	IS	89.2	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C5-PFNA	IS	93.1	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFDA	IS	92.8	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
d3-MeFOSAA	IS	70.7	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFUnA	IS	69.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
d5-EtFOSAA	IS	86.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFDoA	IS	74.3	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
13C2-PFTeDA	IS	73.1	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EFF01-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-07	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 12:10	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.5	1.94	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHxA	40.7	2.36	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHpA	11.8	0.640	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHxS	43.0	1.03	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	35.8	0.705	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOS	ND	0.874	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFNA	ND	0.877	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFDA	ND	1.61	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
MeFOSAA	ND	1.79	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	1.14	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
EtFOSAA	ND	1.48	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	0.858	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	0.535	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	ND	0.818	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	98.2	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFHxA	IS	98.6	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C4-PFHpA	IS	98.9	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
18O2-PFHxS	IS	121	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	109	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C8-PFOS	IS	105	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C5-PFNA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFDA	IS	92.2	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
d3-MeFOSAA	IS	101	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	92.5	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
d5-EtFOSAA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
13C2-PFOA	IS	90.4	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-EFF01P-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-09	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 12:10	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.0	1.93	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHxA	37.4	2.35	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHpA	11.3	0.637	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHxS	49.2	1.02	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOA	28.6	0.702	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOS	ND	0.870	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFNA	ND	0.873	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFDA	ND	1.61	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
MeFOSAA	ND	1.78	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOxA	ND	1.13	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
EtFOSAA	ND	1.48	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOxA	ND	0.854	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFTeDA	ND	0.533	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFTeDA	ND	0.814	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	92.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFHxA	IS	104	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C4-PFHpA	IS	93.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
18O2-PFHxS	IS	102	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFOA	IS	130	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C8-PFOS	IS	94.2	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C5-PFNA	IS	88.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFDA	IS	77.1	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
d3-MeFOSAA	IS	103	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFOxA	IS	110	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
d5-EtFOSAA	IS	97.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFOxA	IS	126	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
13C2-PFTeDA	IS	116	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-INF01-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-11	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 12:15	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.6	1.95	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHxA	39.5	2.38	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHpA	11.3	0.645	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHxS	45.7	1.03	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOA	35.1	0.710	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOS	ND	0.880	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFNA	ND	0.884	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFDA	ND	1.63	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
MeFOSAA	ND	1.80	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOA	ND	1.15	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
EtFOSAA	ND	1.49	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFDoA	ND	0.864	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFTeDA	ND	0.539	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFTeDA	ND	0.824	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	102	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFHxA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C4-PFHpA	IS	112	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
18O2-PFHxS	IS	112	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFOA	IS	104	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C8-PFOS	IS	91.6	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C5-PFNA	IS	82.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFDA	IS	104	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
d3-MeFOSAA	IS	96.0	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFOA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
d5-EtFOSAA	IS	90.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFDoA	IS	113	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
13C2-PFTeDA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-P-4-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-13	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	05-Dec-17 10:50	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	9.73	1.88	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHxA	34.3	2.29	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHpA	11.9	0.622	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHxS	35.0	0.996	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFOA	58.2	0.685	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFOS	ND	0.849	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFNA	1.49	0.852	5.25	8.42	J	B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFDA	ND	1.57	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
MeFOSAA	ND	1.74	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFUnA	ND	1.10	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
EtFOSAA	ND	1.44	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFDoA	ND	0.833	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFTrDA	ND	0.520	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFTeDA	ND	0.794	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	107	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFHxA	IS	111	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C4-PFHpA	IS	101	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
18O2-PFHxS	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFOA	IS	111	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C8-PFOS	IS	118	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C5-PFNA	IS	89.7	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFDA	IS	127	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
d3-MeFOSAA	IS	97.4	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFUnA	IS	75.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
d5-EtFOSAA	IS	90.4	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFDoA	IS	95.5	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
13C2-PFTeDA	IS	85.8	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

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

Sample ID: WI-A06-6-I-03-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701882-15	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	06-Dec-17 10:35	Date Received:	07-Dec-17 09:23		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.04	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHxA	ND	2.48	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHpA	ND	0.673	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHxS	ND	1.08	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFOA	ND	0.741	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFOS	ND	0.919	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFNA	ND	0.922	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFDA	ND	1.70	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
MeFOSAA	ND	1.88	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFUnA	ND	1.20	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
EtFOSAA	ND	1.56	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFDoA	ND	0.902	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFTrDA	ND	0.563	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFTeDA	ND	0.860	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	105	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFHxA	IS	98.7	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C4-PFHpA	IS	97.8	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
18O2-PFHxS	IS	132	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFOA	IS	102	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C8-PFOS	IS	114	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C5-PFNA	IS	85.8	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFDA	IS	97.6	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
d3-MeFOSAA	IS	101	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFUnA	IS	80.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
d5-EtFOSAA	IS	84.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFDoA	IS	75.3	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFTeDA	IS	84.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, 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.
M	Estimated Maximum Possible Concentration. (CA Region 2 projects only)
*	See Cover Letter
Conc.	Concentration
NA	Not applicable
ND	Not Detected
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
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

1701882 3.4°C

CH2MHILL

CHAIN OF CUSTODY RECORD

12/5/2017 8:39:15 PM

Page 1 OF 2

			Container:	2x 125mL	4x 125mL	Number of Containers	COMMENTS	
Project Name			Preservatives:	≤ 6°C	≤ 6°C			
Location NASWI, Oak Harbor, Washingt				Filtered:	NA			NA
Project Number 695610.05.FI.FS					Holding Time:			7
Project Manager Heather Perry				PFAS (14 analyte list)		PFAS (14 analyte list) TOP		
Sample Manager Tiffany Hill (541) 908-3794								
Task Order								
Project WHIDBEY ISLAND								
Turnaround Time 7 Days								
Shipping Date: 12/6/2017								
COC Number: VAL-120617								
DATE	TIME	Matrix						
✓ WI-A06-6-I-01-1217	12/5/2017 14:45	Water	X			2		
✓ WI-A06-6-I-01-1217-TOP	12/5/2017 14:45	Water		X		4		
✓ WI-A06-EB01-120517	12/5/2017 8:40	Water	X			2		
✓ WI-A06-EB01-120517-TOP	12/5/2017 8:40	Water		X		4		
✓ WI-A06-EB02-120517	12/5/2017 16:20	Water	X			2		
✓ WI-A06-EB02-120517-TOP	12/5/2017 16:20	Water		X		4		
✓ WI-A06-EFF01-1217	12/5/2017 12:10 12:05	Water	X			2		
✓ WI-A06-EFF01-1217-TOP	12/5/2017 12:10 12:05	Water		X		4		
✓ WI-A06-EFF01P-1217	12/5/2017 12:10	Water	X			2		
✓ WI-A06-EFF01P-1217-TOP	12/5/2017 12:10	Water		X		4		
✓ WI-A06-INF01-1217	12/5/2017 12:15	Water	X			2		
✓ WI-A06-INF01-1217-TOP	12/5/2017 12:15	Water		X		4		
✓ WI-A06-P-4-1217	12/5/2017 10:50	Water	X			2		
✓ WI-A06-P-4-1217-TOP	12/5/2017 10:50	Water		X		4		

Approved by <i>[Signature]</i> Sampled by D. Butler & S. Fitzsimmons Relinquished by Received by <i>[Signature]</i> Relinquished by <i>[Signature]</i> Received by <i>[Signature]</i>	Date/Time 12/06/17 12/06/17 12/06/17 12/07/17 1007	Shipping Details Method of Shipment: FedEx On Ice: <input checked="" type="radio"/> yes <input type="radio"/> no Airbill No: Lab Name: Vista Analytical Laboratory Lab Phone: (916) 673-1520	ATTN: Sample Custody and Martha Maier	Special Instructions: Report Copy to Heather.Perry@CH2M.com (530) 229-3276 x33276
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1701882

CH2MHILL

CHAIN OF CUSTODY RECORD

12/5/2017 8:39:15 PM

Page 2 OF 2

Project Name Location NASWI, Oak Harbor, Washing Project Number 695610.05.FI.FS Project Manager Heather Perry Sample Manager Tiffany Hill (541) 908-3794 Task Order Project WHIDBEY ISLAND Turnaround Time 7 Days Shipping Date: 12/6/2017 COC Number: VAL-120617			Container: 2x 125mL 4x 125mL Preservatives: ≤ 6°C ≤ 6°C Filtered: NA NA Holding Time: 7 7	PFAS (14 analyte list) PFAS (14 analyte list) TOP	Number of Containers	COMMENTS	
DATE TIME Matrix							
✓ WI-A06-6-I-03-1217	12/6/2017	10:35	Water	X		2	
✓ WI-A06-6-I-03-1217-TOP	12/6/2017	10:35	Water		X	4	
WI-A06-6-S-17-1217	12/6/2017		Water	X		2	
WI-A06-6-S-17-1217-TOP	12/6/2017		Water		X	4	
WI-A06-EB03-1217	12/6/2017		Water	X		2	
WI-A06-EB03-1217-TOP	12/6/2017		Water		X	4	
WI-A06-MW-10-1217	12/6/2017		Water	X		2	
WI-A06-MW-10-1217-TOP	12/6/2017		Water		X	4	
TOTAL NUMBER OF CONTAINERS						26	48

Approved by <i>[Signature]</i> 12/06/17 Sampled by D. Butler & S. Fitzsimmons 12/06/17 Relinquished by Received by Relinquished by <i>[Signature]</i> 12/06/17 Received by <i>[Signature]</i> 12/07/17 1007	Shipping Details Method of Shipment: FedEx On Ice: <input checked="" type="radio"/> yes <input type="radio"/> no Airbill No: Lab Name: Vista Analytical Laboratory Lab Phone: (916) 673-1520	ATTN: Sample Custody and Martha Maier	Special Instructions: Report Copy to Heather.Perry@CH2M.com (530) 229-3276 x33276
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Sample Log-in Checklist

Vista Work Order #: 1701882 TAT 14 days

Samples Arrival:	Date/Time 12/07/17 0923	Initials: CBB	Location: <u>WR-2</u> Shelf/Rack: <u>NA</u>				
Logged In:	Date/Time 12/07/17 1438	Initials: MWS	Location: <u>WR-2</u> Shelf/Rack: <u>B-5</u>				
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac	<input type="radio"/> GSO	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice	<input type="radio"/> None			
Temp °C:	3.4 (uncorrected)	Time: 1014	Thermometer ID: DT-3				
Temp °C:	3.4 (corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input 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>700 782338259</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="radio"/> Na ₂ S ₂ O ₃	<input type="radio"/> Trizma	<input checked="" type="radio"/> None	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> NA
Shipping Container	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input checked="" type="radio"/> Retain	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments: W1-206-P-4-1217] MWS
~~W1-206-P-4-1217~~] 12/07/17
W1-206-P-4-1217-TOP] — sediment present in samples

EXTRACTION INFORMATION

Process Sheet
 Workorder: **1701882**

PRIORITY

Prep Expiration: 2017-Dec-19
 Client: CH2M Hill

Workorder Due: **21-Dec-17 00:00**

TAT: 14

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

Prep Batch: B7L0138

Prep Data Entered: GPP 12/20/17
Date and Initials

Version: 537 (14 Analyte)
 DoD: **DoD QSM 5.1**

Initial Sequence: B7 S7L0

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701882-01	(A)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-6-I-01-1217		WR-2 B-4	HDPE Bottle, 125 mL
1701882-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EB01-120517		WR-2 B-4	HDPE Bottle, 125 mL
1701882-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EB02-120517		WR-2 B-4	HDPE Bottle, 125 mL
1701882-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EFF01-1217		WR-2 B-4	HDPE Bottle, 125 mL
1701882-09		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EFF01P-1217		WR-2 B-4	HDPE Bottle, 125 mL
1701882-11		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-INF01-1217		WR-2 B-4	HDPE Bottle, 125 mL
1701882-13		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-P-4-1217		WR-2 B-4	HDPE Bottle, 125 mL
1701882-15		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-6-I-03-1217		WR-2 B-4	HDPE Bottle, 125 mL

Pre-Prep Check Out: 12/19/17 ST
 Pre-Prep Check In: N/A

Prep Check Out: N/A
 Prep Check In: N/A

Prep Reconciled Inits/Date: 12/19/17 ST
 Spike Reconciled Inits/Date: KC 12/19/17
 VialBoxID: Hugp did it

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mRL)

B7L0138

Chemist: KC

Prep Date/Time: 19-Dec-17 12:26

15:00
KC 12/19/17

Prepared using: LCMS - SPE Extraction-LCMS

		Date/Initials: <u>12/19/17 ST</u>				Balance ID: <u>HRM 5-8</u>							
Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE		
<input type="checkbox"/>	B7L0138-BLK1	5	2	0	2	N/A	N/A	(0.125) ✓	<u>KC/KCF 12/19/17</u>	<u>HC</u>	<u>12-19-17</u>	<u>KC</u>	<u>GRB 12/19/17</u>
<input type="checkbox"/>	B7L0138-BS1	5	2	0	2	↓	↓	(0.125) ✓	↓	↓		↓	
<input type="checkbox"/>	B7L0138-BSD1	5	2	0	2	↓	↓	(0.125) ✓	↓	↓		↓	
<input checked="" type="checkbox"/>	1701882-01	6	2	0	3	142.65	26.97	0.11568 ✓	↓	↓		↓	
<input type="checkbox"/>	1701882-03	5	2	0	2	147.05	26.96	0.11513 ✓	↓	↓		↓	
<input type="checkbox"/>	1701882-05	5	2	0	2	146.87	27.14	0.11852 ✓	↓	↓		↓	
<input type="checkbox"/>	1701882-07	6	2	0	3	142.35	26.91	0.11544 ✓	↓	↓		↓	
<input type="checkbox"/>	1701882-09	6	2	0	3	142.94	26.92	0.11592 ✓	↓	↓		↓	
<input type="checkbox"/>	1701882-11	6	2	0	3	141.55	26.95	0.11460 ✓	↓	↓		↓	
<input checked="" type="checkbox"/>	1701882-13 (A)	7	2	0	4	145.74	26.94	0.11880 ✓	↓	↓		↓	
<input type="checkbox"/>	1701882-15	6	2	0	3	136.76	27.00	0.16976 ✓	↓	↓		↓	

IS: <u>17L0402, 10 mL (V1)</u>	SPE Chem: <u>stata X-tr 33um 200mg/ml</u>	Notes: <u>(A) 2x centrifuged 12/19/17 ST</u>
IS SUP: <u>NA</u>	Ele SOLV: <u>mech/0.5% methanol</u>	
NS: <u>17J1820, 10 mL (V1)</u>	Final Volume(s) <u>1ml</u>	
RS: <u>17K 2502, 10 mL (V2)</u>		

Comments: Assume 1 g = 1 mL

Cen = Centrifuged

Batch: B7L0138

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701882-01	0.11568	NA	NA	1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
1701882-03	0.11513			1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
1701882-05	0.11852			1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
1701882-07	0.11544			1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
1701882-09	0.11592			1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
1701882-11	0.1146			1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
1701882-13	0.1188			1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
1701882-15	0.10976			1000	19-Dec-17 15:00	KC			Water	537M PFAS DOD (LOQ as
B7L0138-BLK1	0.125			1000	19-Dec-17 15:00	KC				QC
B7L0138-BS1	0.125			1000	19-Dec-17 15:00	KC	17J1820	10		QC
B7L0138-BSD1	0.125			1000	19-Dec-17 15:00	KC	17J1820	10		QC

GRB 12/20/17

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\Q4.PRO\results\171223M1\171223M1-18.qld

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Printed: Tuesday, December 26, 2017 16:21:01 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_18, Date: 23-Dec-2017, Time: 16:07:07, ID: B7L0138-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		1.33e3	0.125		2.70				
2	4	PFHxA	313.2 > 268.9		3.44e3	0.125		3.20				
3	5	PFHpA	363.0 > 318.9		6.43e3	0.125		3.80				
4	6	L-PFHxS	398.9 > 79.6	1.09e1	1.08e3	0.125		3.95	3.98	0.125		
5	9	L-PFOA	413 > 368.7		9.06e3	0.125		4.32				
6	12	PFNA	463.0 > 418.8		8.17e3	0.125		4.75				
7	14	L-PFOS	499 > 79.9		2.58e3	0.125		4.83				
8	16	PFDA	513 > 468.8		6.64e3	0.125		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.43e3	0.125		5.26				
10	19	N-EtFOSAA	584.2 > 419		3.52e3	0.125		5.42				
11	20	PFUdA	563.0 > 518.9		6.38e3	0.125		5.43				
12	22	PFDoA	612.9 > 569.0		4.19e3	0.125		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-18.qld

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Printed: Tuesday, December 26, 2017 16:21:13 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_18, Date: 23-Dec-2017, Time: 16:07:07, ID: B7L0138-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.72e3	0.125		5.95				
2	25 PFTeDA	712.9 > 668.8		4.72e3	0.125		6.16				
3	33 13C3-PFBS	302. > 98.8	1.33e3	1.15e4	0.125	0.106	2.70	2.73	1.44	108.816	108.8
4	34 13C2-PFHxA	315 > 269.8	3.44e3	1.15e4	0.125	0.743	3.20	3.23	3.73	40.131	100.3
5	35 13C4-PFHpA	367.2 > 321.8	6.43e3	1.15e4	0.125	0.557	3.80	3.84	6.96	100.017	100.0
6	36 18O2-PFHxS	403.0 > 102.6	1.08e3	2.47e3	0.125	0.433	3.95	3.98	5.48	101.340	101.3
7	37 13C2-6:2 FTS	429.1 > 408.9	2.30e3	8.19e3	0.125	0.275	4.26	4.29	3.50	102.073	102.1
8	38 13C2-PFOA	414.9 > 369.7	9.06e3	8.19e3	0.125	1.141	4.32	4.35	13.8	96.898	96.9
9	39 13C5-PFNA	468.2 > 422.9	8.17e3	8.76e3	0.125	0.963	4.75	4.78	11.7	96.908	96.9
10	40 13C8-PFOSA	506.1 > 77.7	1.96e3	8.07e3	0.125	0.373	4.81	4.83	3.03	65.014	65.0
11	41 13C8-PFOS	507.0 > 79.9	2.58e3	2.40e3	0.125	1.075	4.83	4.85	13.4	99.907	99.9
12	42 13C2-PFDA	515.1 > 469.9	6.64e3	6.08e3	0.125	1.213	5.11	5.14	13.7	90.056	90.1
13	43 13C2-8:2 FTS	529.1 > 508.7	1.39e3	1.15e4	0.125	0.109	5.09	5.11	1.51	110.225	110.2
14	44 d3-N-MeFOSAA	573.3 > 419	2.43e3	8.07e3	0.125	0.405	5.26	5.29	3.77	74.331	74.3
15	45 d5-N-EtFOSAA	589.3 > 419	3.52e3	8.07e3	0.125	0.490	5.42	5.44	5.45	88.963	89.0
16	46 13C2-PFUdA	565 > 519.8	6.38e3	8.07e3	0.125	1.154	5.43	5.46	9.88	68.501	68.5
17	47 13C2-PFDoA	615.0 > 569.7	4.19e3	8.07e3	0.125	0.623	5.70	5.73	6.49	83.441	83.4
18	49 13C2-PFTeDA	714.8 > 669.6	4.72e3	8.07e3	0.125	0.706	6.16	6.18	7.31	82.839	82.8
19	55 13C5-PFHxA	318 > 272.9	1.15e4	1.15e4	0.125	1.000	3.20	3.22	12.5	100.000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.47e3	2.47e3	0.125	1.000	3.95	3.98	12.5	100.000	100.0
21	57 13C8-PFOA	421.3 > 376	8.19e3	8.19e3	0.125	1.000	4.32	4.35	12.5	100.000	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.76e3	8.76e3	0.125	1.000	4.75	4.78	12.5	100.000	100.0
23	59 13C4-PFOS	503 > 79.9	2.40e3	2.40e3	0.125	1.000	4.83	4.85	12.5	100.000	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.08e3	6.08e3	0.125	1.000	5.11	5.14	12.5	100.000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.07e3	8.07e3	0.125	1.000	5.43	5.46	12.5	100.000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.09e1	1.08e3	0.125		4.00		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	9.06e3	0.125		4.30		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	2.58e3	0.125		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.43e3	0.125		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.52e3	0.125		5.40		0.000		

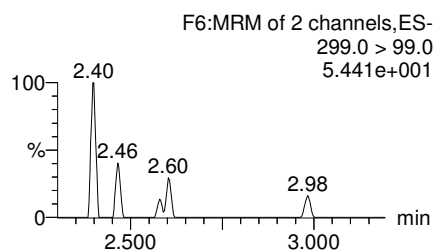
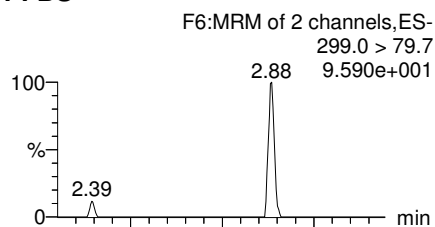
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Printed: Tuesday, December 26, 2017 16:21:13 Pacific Standard Time

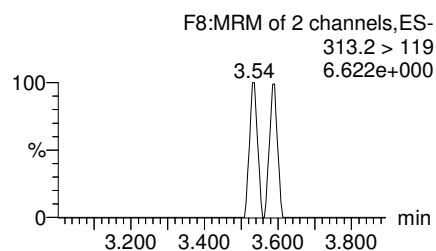
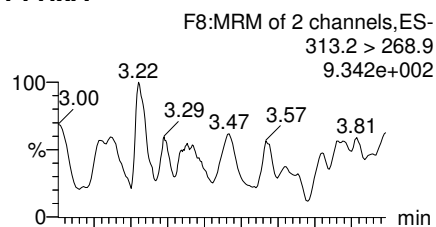
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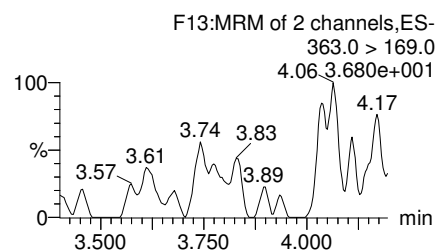
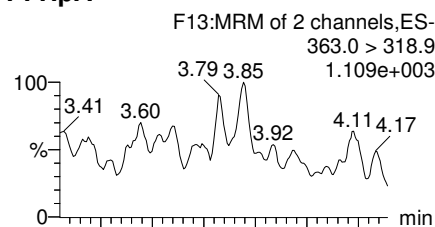
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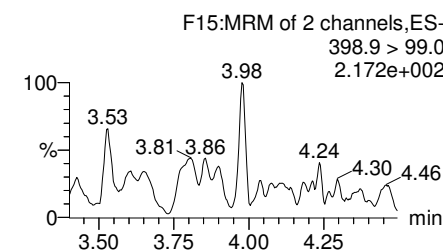
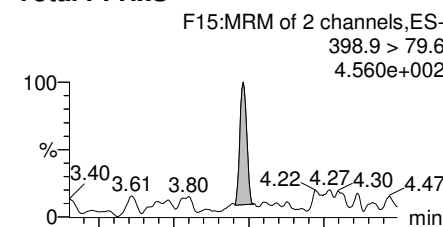
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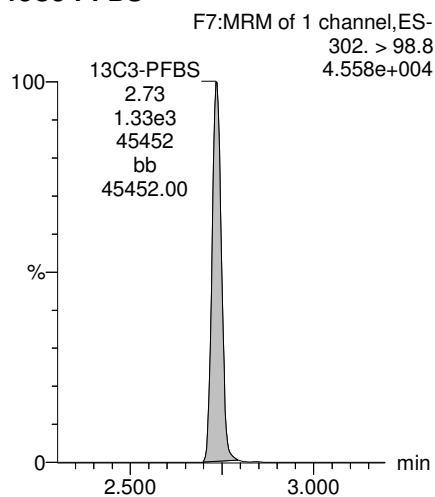
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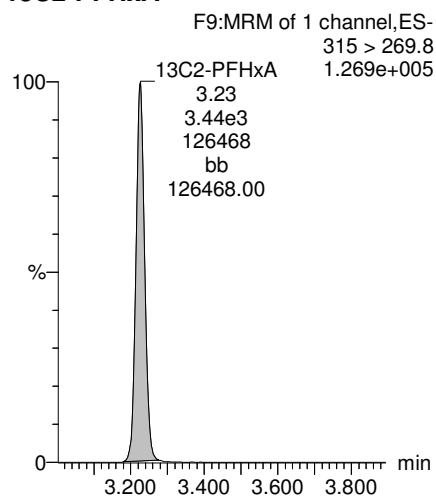
Total PFHxS



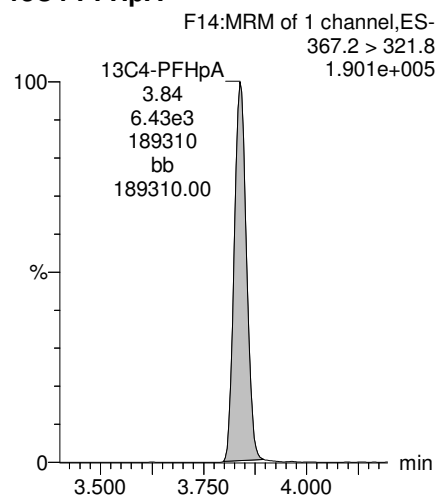
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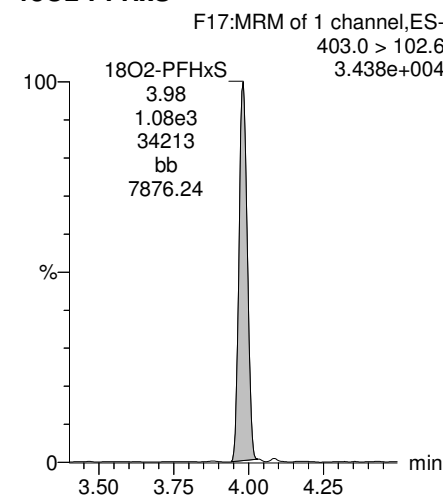
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13C4-PFHpA



18O2-PFHxS

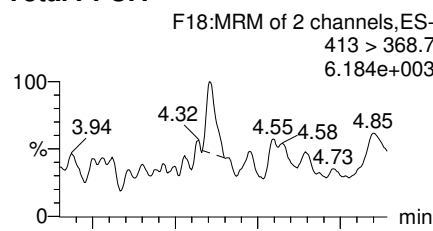


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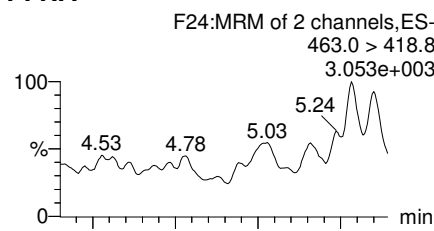
Last Altered: Tuesday, December 26, 2017 16:19:55 Pacific Standard Time
Printed: Tuesday, December 26, 2017 16:21:13 Pacific Standard Time

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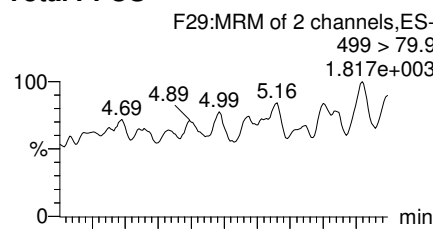
Total PFOA



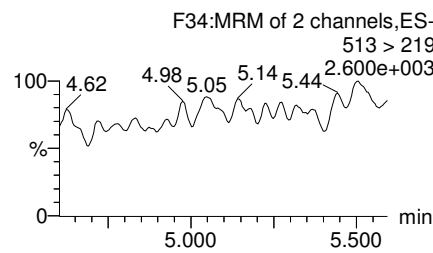
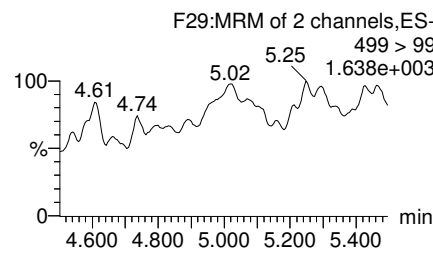
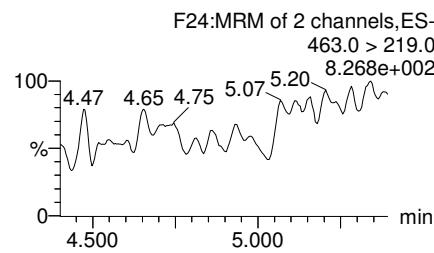
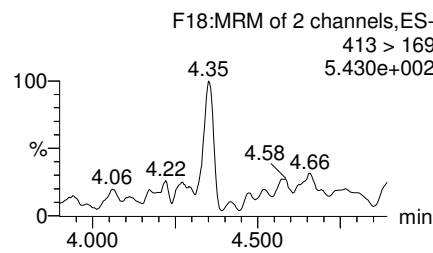
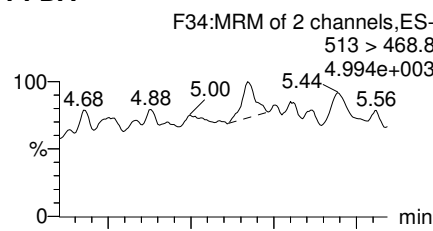
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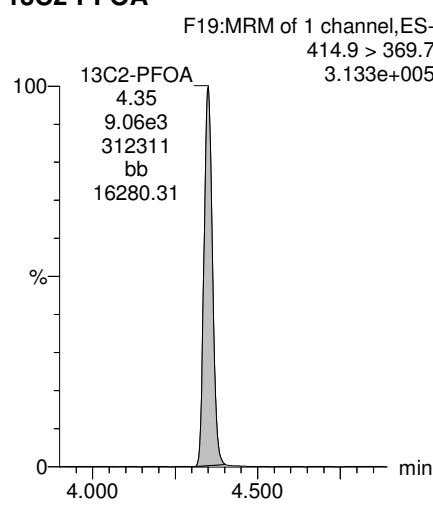
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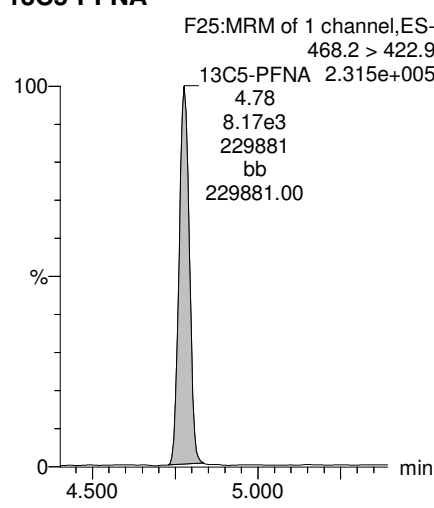
PFDA



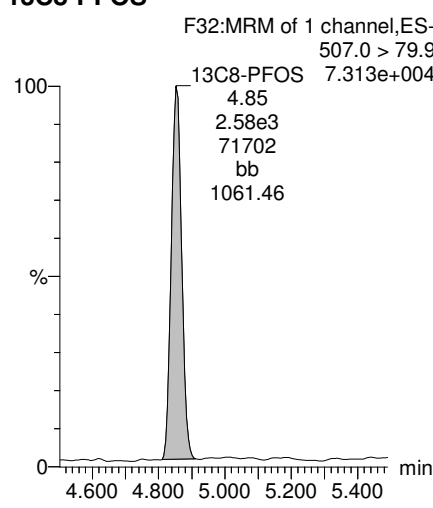
13C2-PFOA



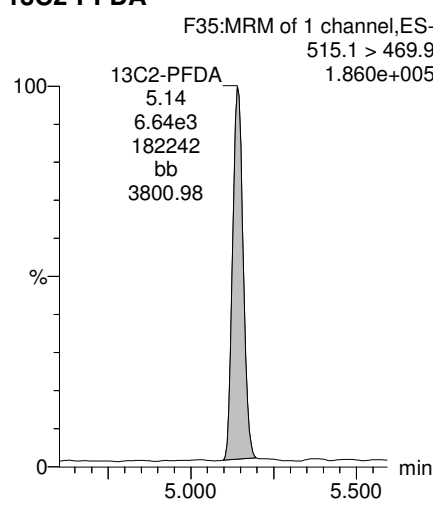
13C5-PFNA



13C8-PFOS



13C2-PFDA

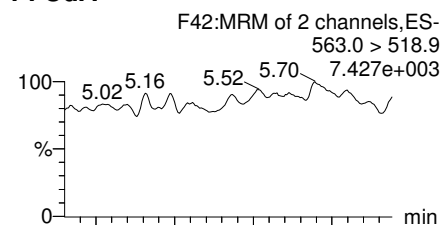


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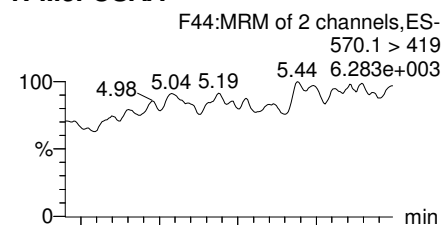
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Printed: Tuesday, December 26, 2017 16:21:13 Pacific Standard Time

Name: 171223M1_18, Date: 23-Dec-2017, Time: 16:07:07, ID: B7L0138-BLK1 Method Blank 0.125, Description: Method Blank

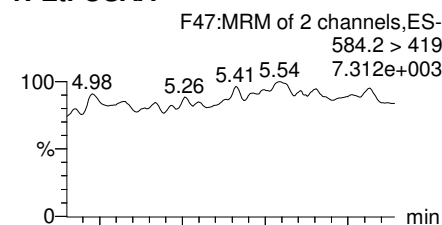
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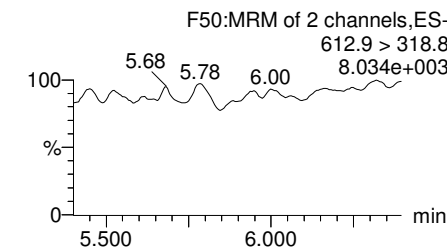
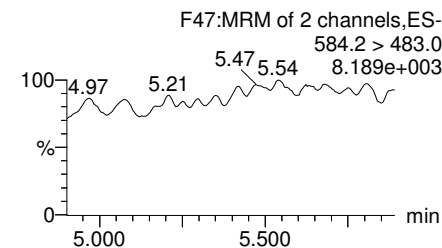
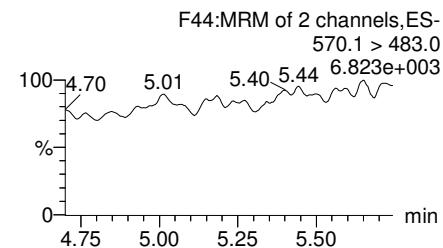
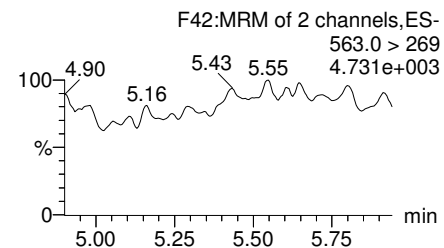
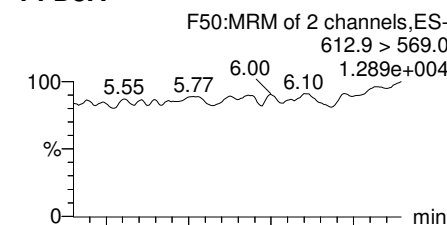
N-MeFOSAA



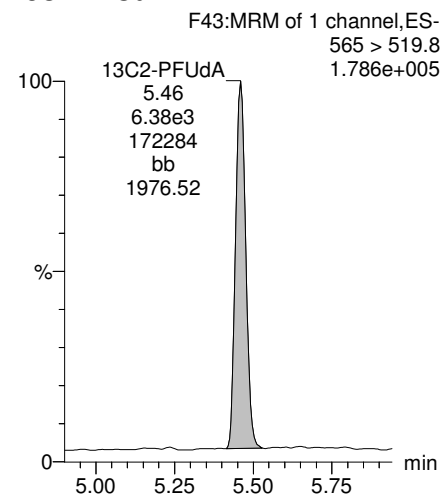
N-EtFOSAA



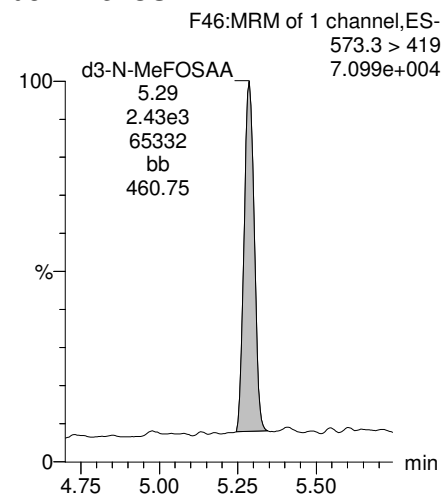
PFDoA



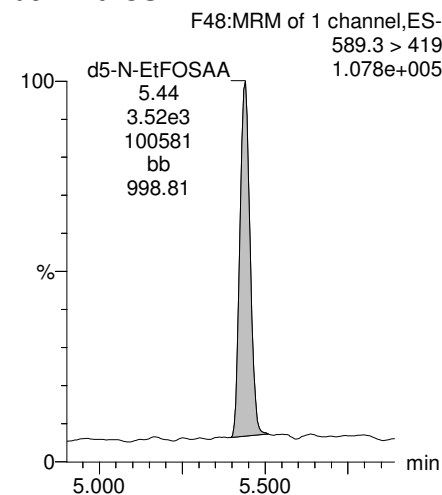
13C2-PFUdA



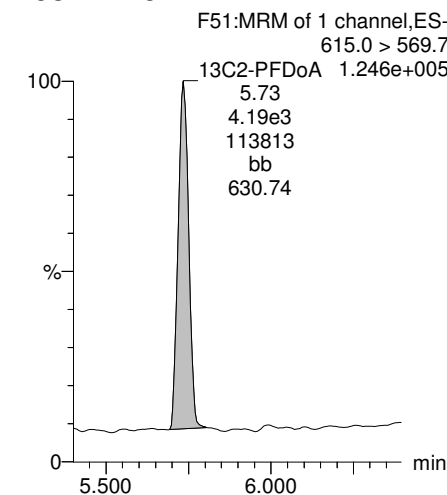
d3-N-MeFOSAA



d5-N-EtFOSAA



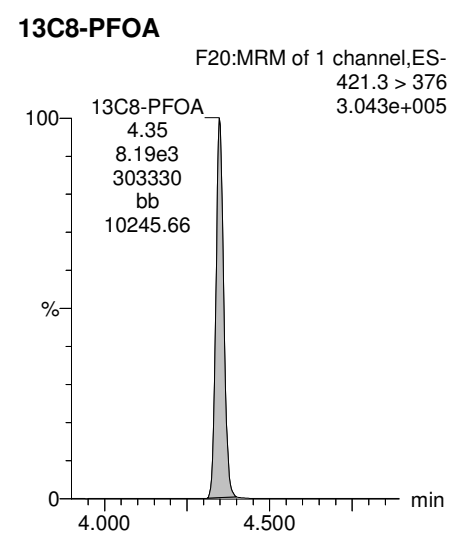
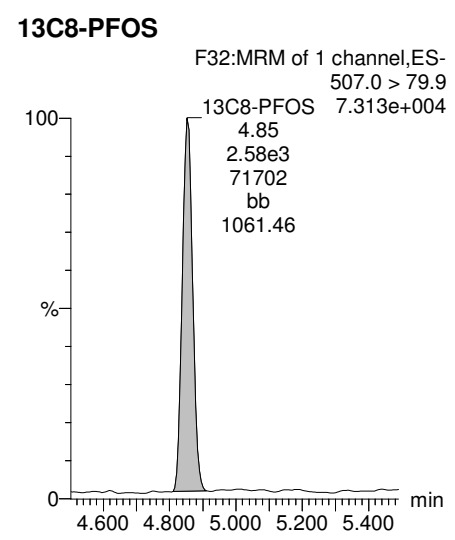
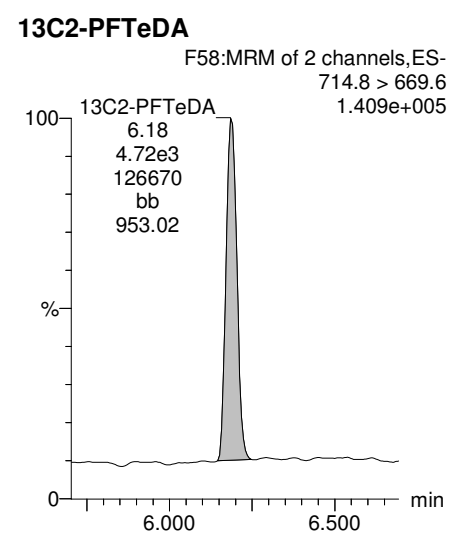
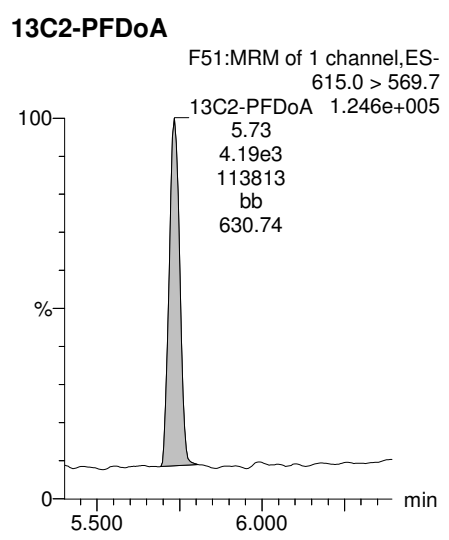
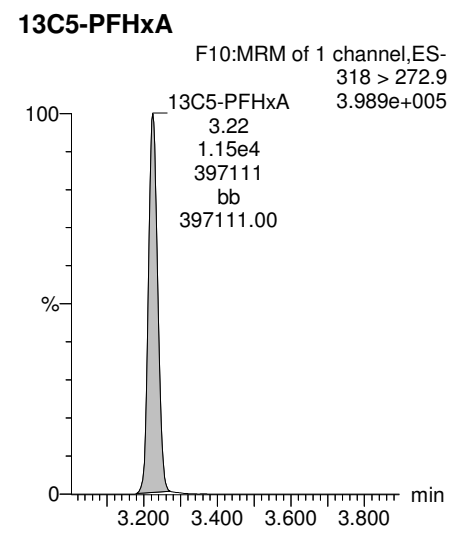
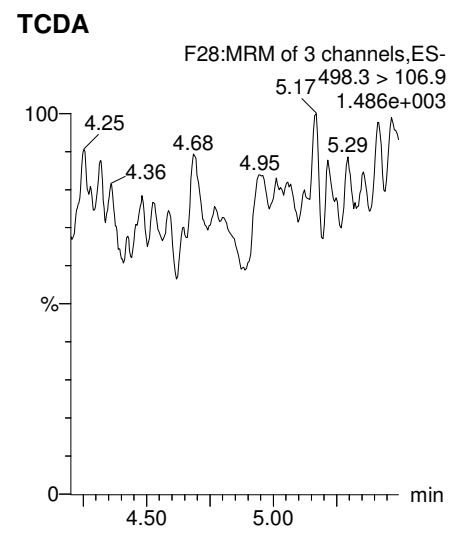
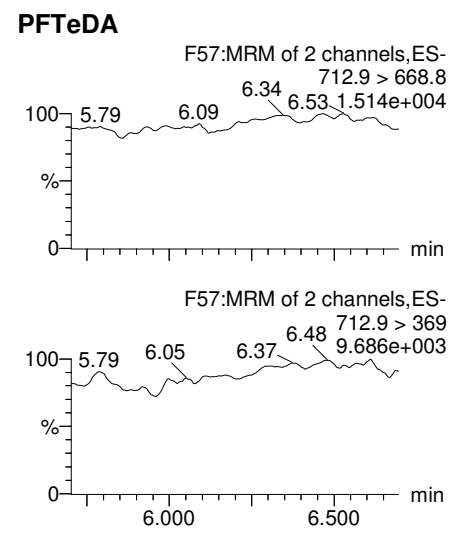
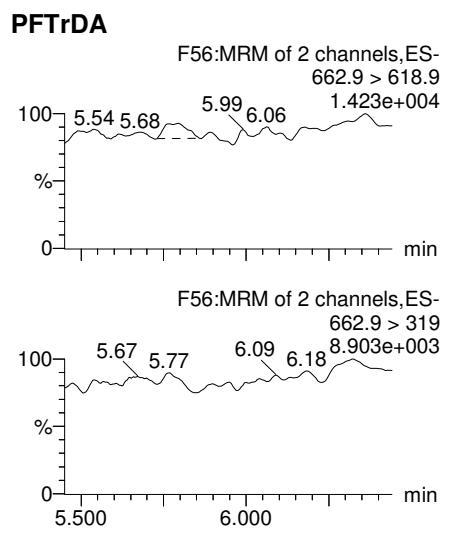
13C2-PFDoA



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Printed: Tuesday, December 26, 2017 16:21:13 Pacific Standard Time

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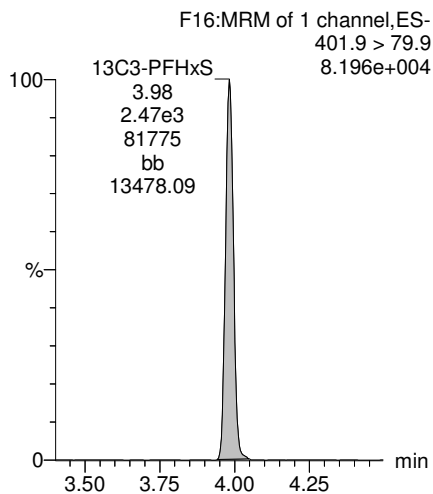


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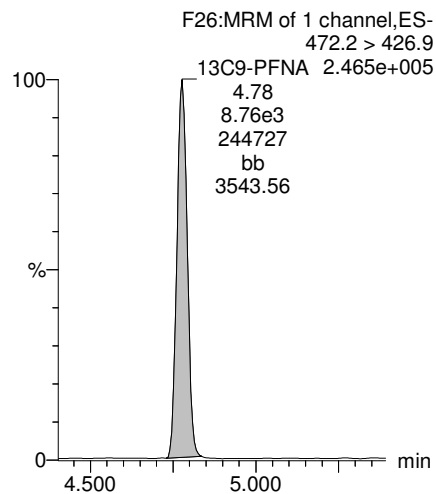
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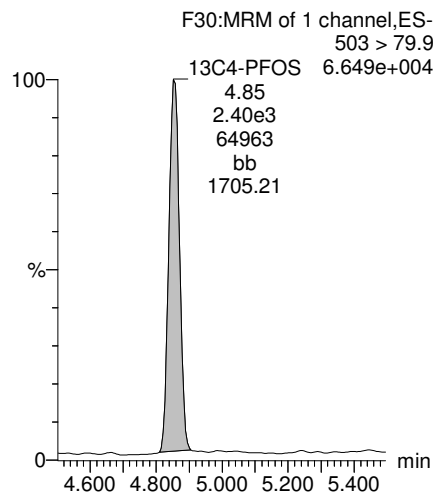
13C3-PFHxS



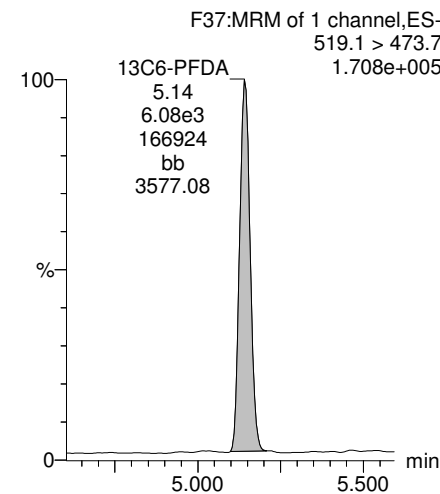
13C9-PFNA



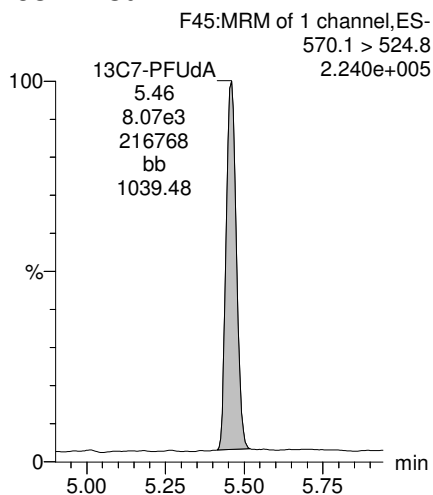
13C4-PFOS



13C6-PFDA



13C7-PFUDa



Dataset: U:\Q4.PRO\results\171223M1\171223M1-15.qld

Last Altered: Tuesday, December 26, 2017 14:48:35 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:50:43 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_15, Date: 23-Dec-2017, Time: 15:33:35, ID: B7L0138-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	1.90e3	1.08e3	0.125		2.70	2.74	22.0	81.127	101.4
2	4 PFHxA	313.2 > 268.9	9.11e3	3.14e3	0.125		3.20	3.23	14.5	78.534	98.2
3	5 PFHpA	363.0 > 318.9	6.38e3	5.87e3	0.125		3.80	3.84	13.6	69.786	87.2
4	6 L-PFHxS	398.9 > 79.6	1.61e3	9.67e2	0.125		3.95	3.98	20.8	93.963	117.5
5	9 L-PFOA	413 > 368.7	7.29e3	8.97e3	0.125		4.32	4.35	10.2	78.063	97.6
6	12 PFNA	463.0 > 418.8	6.78e3	6.60e3	0.125		4.75	4.78	12.8	75.619	94.5
7	14 L-PFOS	499 > 79.9	1.86e3	2.18e3	0.125		4.83	4.85	10.7	78.196	97.7
8	16 PFDA	513 > 468.8	7.09e3	6.35e3	0.125		5.11	5.14	14.0	65.567	82.0
9	18 N-MeFOSAA	570.1 > 419	3.46e3	2.52e3	0.125		5.26	5.29	17.2	64.942	81.2
10	19 N-EtFOSAA	584.2 > 419	2.47e3	3.37e3	0.125		5.42	5.44	9.17	56.261	70.3
11	20 PFUdA	563.0 > 518.9	6.05e3	6.10e3	0.125		5.43	5.46	12.4	80.936	101.2
12	22 PFDoA	612.9 > 569.0	7.46e3	3.35e3	0.125		5.70	5.73	27.8	91.265	114.1

Dataset: U:\Q4.PRO\results\171223M1\171223M1-15.qld

Last Altered: Tuesday, December 26, 2017 14:48:35 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:50:57 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_15, Date: 23-Dec-2017, Time: 15:33:35, ID: B7L0138-BS1 OPR 0.125, Description: OPR

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9	6.27e3	4.53e3	0.125		5.95	5.98	17.3	52.674	65.8
2	25 PFTeDA	712.9 > 668.8	5.58e3	4.53e3	0.125		6.16	6.19	15.4	76.682	95.9
3	33 13C3-PFBS	302. > 98.8	1.08e3	1.00e4	0.125	0.106	2.70	2.73	1.35	101.594	101.6
4	34 13C2-PFHxA	315 > 269.8	3.14e3	1.00e4	0.125	0.743	3.20	3.22	3.92	42.149	105.4
5	35 13C4-PFHpA	367.2 > 321.8	5.87e3	1.00e4	0.125	0.557	3.80	3.84	7.32	105.171	105.2
6	36 18O2-PFHxS	403.0 > 102.6	9.67e2	2.27e3	0.125	0.433	3.95	3.98	5.33	98.554	98.6
7	37 13C2-6:2 FTS	429.1 > 408.9	2.49e3	8.21e3	0.125	0.275	4.26	4.29	3.79	110.440	110.4
8	38 13C2-PFOA	414.9 > 369.7	8.97e3	8.21e3	0.125	1.141	4.32	4.35	13.7	95.732	95.7
9	39 13C5-PFNA	468.2 > 422.9	6.60e3	7.38e3	0.125	0.963	4.75	4.78	11.2	92.929	92.9
10	40 13C8-PFOA	506.1 > 77.7	1.49e3	7.26e3	0.125	0.373	4.81	4.83	2.57	55.090	55.1
11	41 13C8-PFOS	507.0 > 79.9	2.18e3	1.97e3	0.125	1.075	4.83	4.85	13.8	102.660	102.7
12	42 13C2-PFDA	515.1 > 469.9	6.35e3	5.23e3	0.125	1.213	5.11	5.15	15.2	99.933	99.9
13	43 13C2-8:2 FTS	529.1 > 508.7	1.68e3	1.00e4	0.125	0.109	5.09	5.11	2.10	153.355	153.4
14	44 d3-N-MeFOSAA	573.3 > 419	2.52e3	7.26e3	0.125	0.405	5.26	5.29	4.34	85.585	85.6
15	45 d5-N-EtFOSAA	589.3 > 419	3.37e3	7.26e3	0.125	0.490	5.42	5.44	5.80	94.732	94.7
16	46 13C2-PFUdA	565 > 519.8	6.10e3	7.26e3	0.125	1.154	5.43	5.46	10.5	72.739	72.7
17	47 13C2-PFDoA	615.0 > 569.7	3.35e3	7.26e3	0.125	0.623	5.70	5.73	5.77	74.109	74.1
18	49 13C2-PFTeDA	714.8 > 669.6	4.53e3	7.26e3	0.125	0.706	6.16	6.19	7.79	88.296	88.3
19	55 13C5-PFHxA	318 > 272.9	1.00e4	1.00e4	0.125	1.000	3.20	3.22	12.5	100.000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.27e3	2.27e3	0.125	1.000	3.95	3.98	12.5	100.000	100.0
21	57 13C8-PFOA	421.3 > 376	8.21e3	8.21e3	0.125	1.000	4.32	4.34	12.5	100.000	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.38e3	7.38e3	0.125	1.000	4.75	4.78	12.5	100.000	100.0
23	59 13C4-PFOS	503 > 79.9	1.97e3	1.97e3	0.125	1.000	4.83	4.85	12.5	100.000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.23e3	5.23e3	0.125	1.000	5.11	5.15	12.5	100.000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.26e3	7.26e3	0.125	1.000	5.43	5.46	12.5	100.000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.61e3	9.67e2	0.125		4.00		20.8	93.963	
27	63 Total PFOA	413 > 368.7	7.29e3	8.97e3	0.125		4.30		10.2	78.063	
28	64 Total PFOS	499 > 79.9	1.86e3	2.18e3	0.125		4.80		10.7	78.196	
29	65 Total N-MeFOSAA	570.1 > 419	3.59e3	2.52e3	0.125		5.20		17.8	67.793	
30	66 Total N-EtFOSAA	584.2 > 419	2.47e3	3.37e3	0.125		5.40		9.17	56.261	

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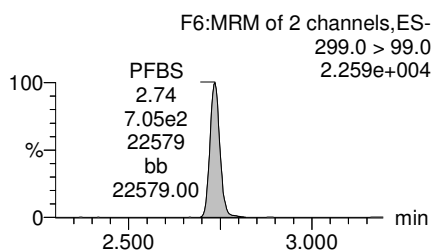
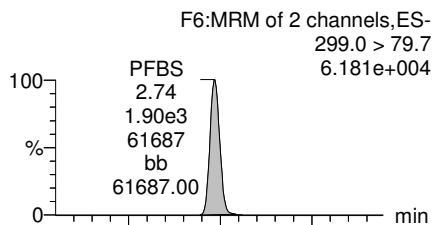
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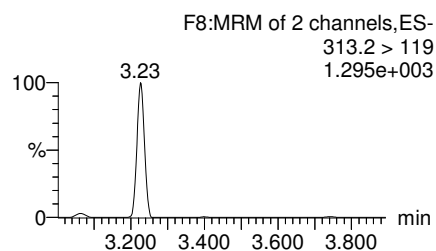
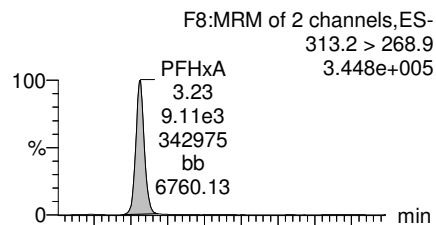
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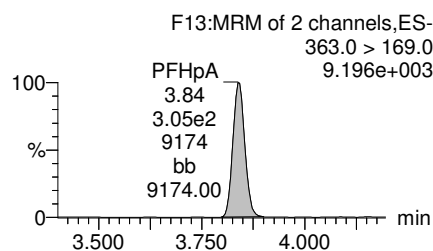
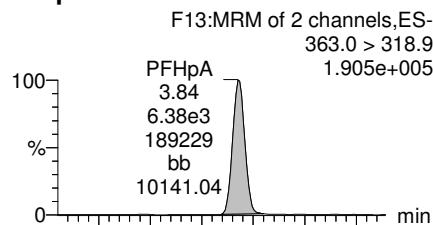
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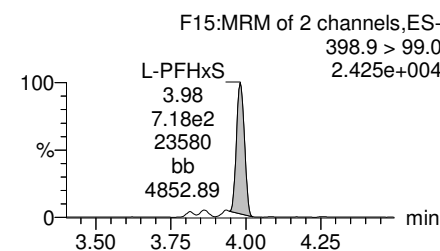
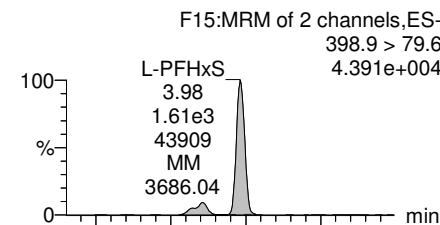
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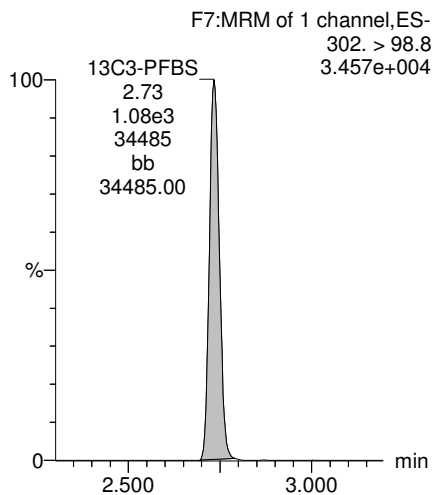
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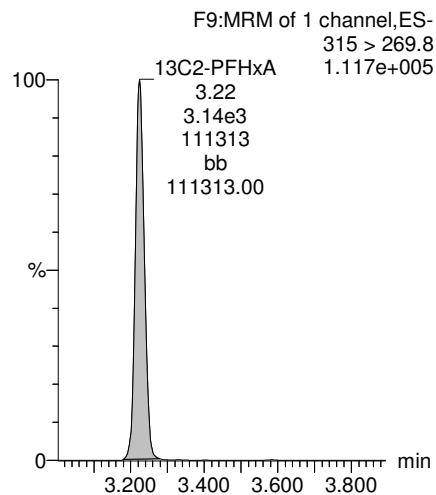
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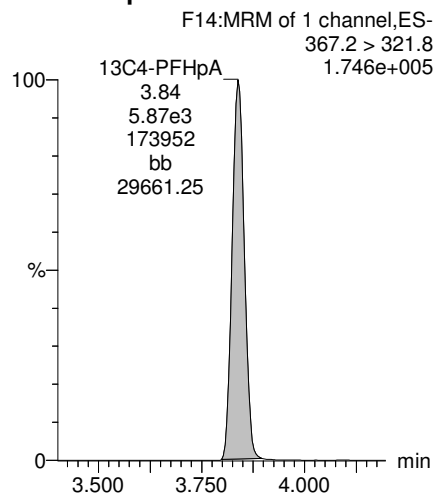
13C3-PFBS



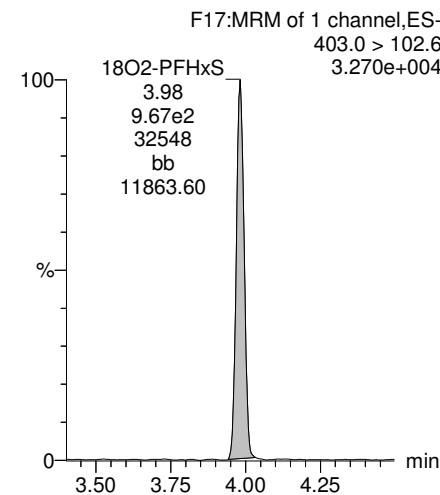
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13C4-PFHpA



18O2-PFHxS

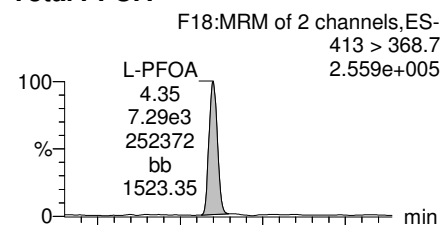


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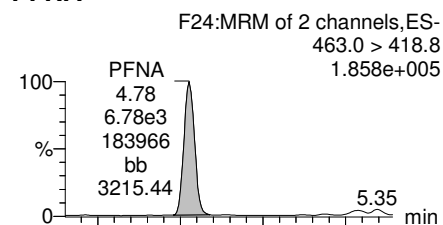
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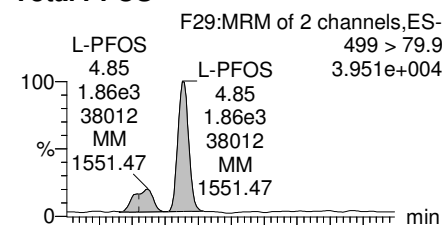
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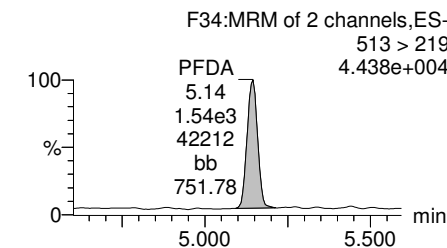
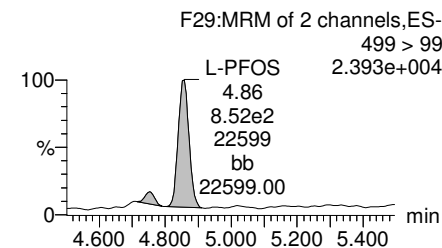
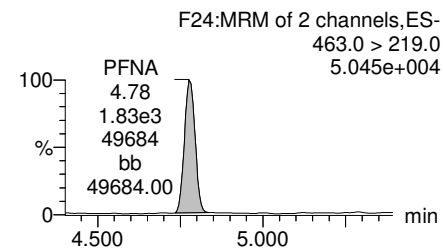
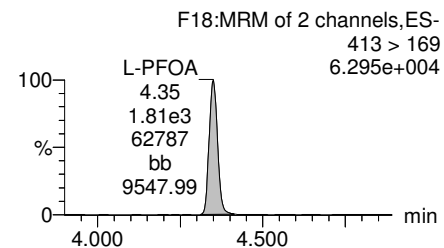
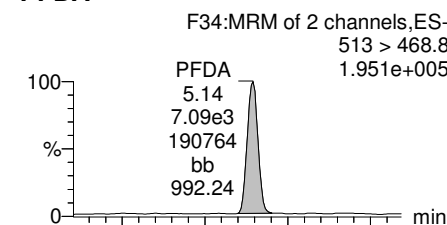
PFNA



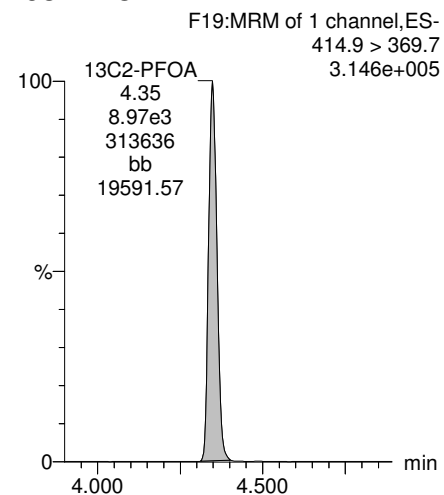
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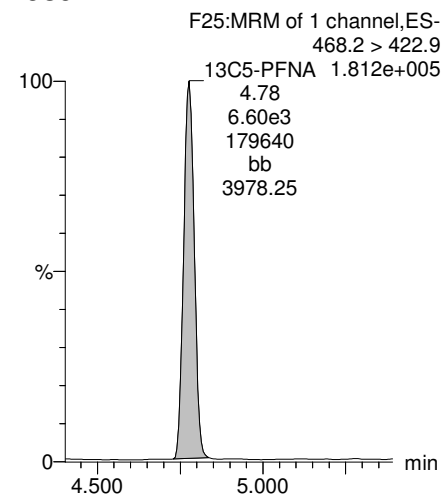
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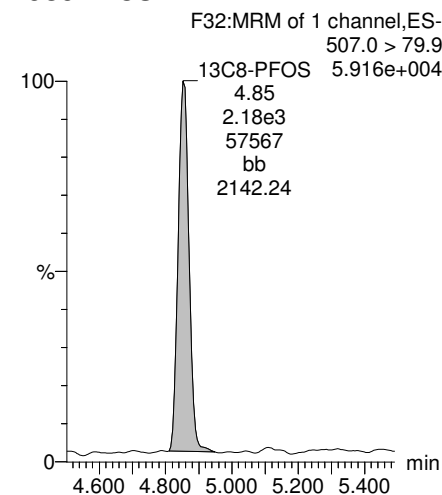
13C2-PFOA



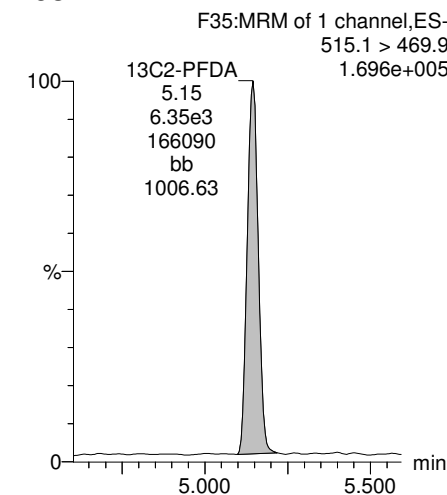
13C5-PFNA



13C8-PFOS



13C2-PFDA

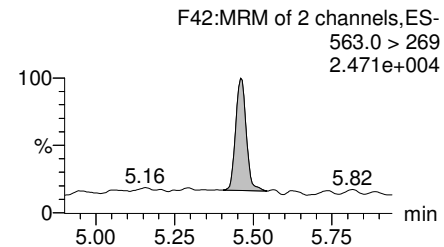
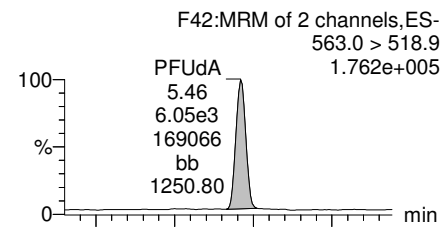


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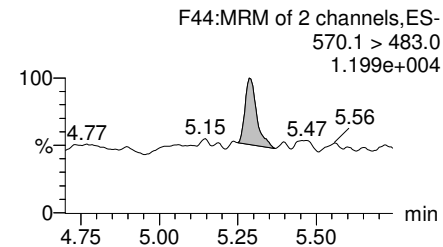
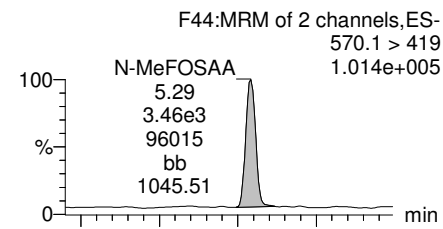
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Printed: Tuesday, December 26, 2017 14:50:57 Pacific Standard Time

Name: 171223M1_15, Date: 23-Dec-2017, Time: 15:33:35, ID: B7L0138-BS1 OPR 0.125, Description: OPR

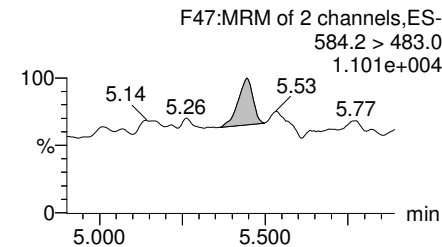
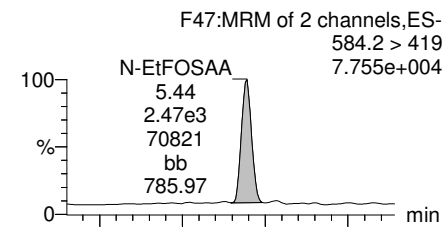
PFUdA



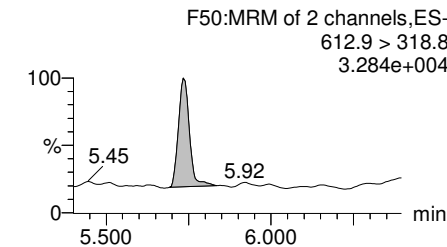
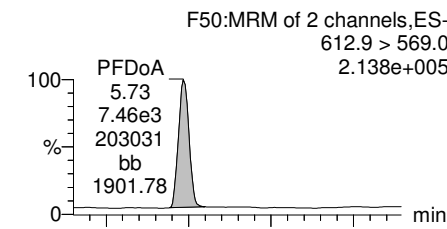
N-MeFOSAA



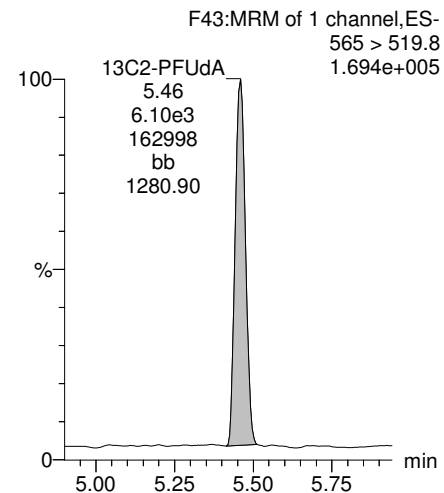
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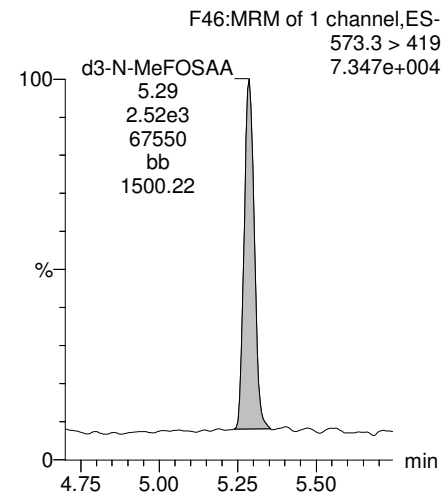
PFDaA



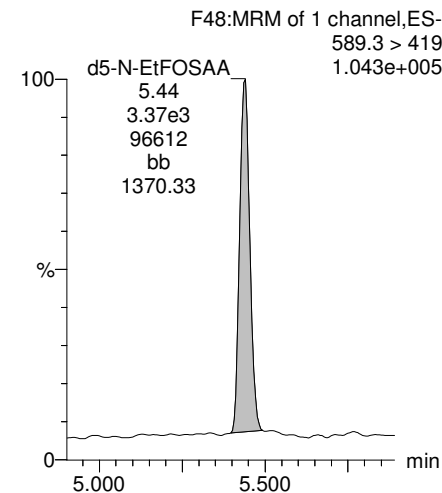
13C2-PFUdA



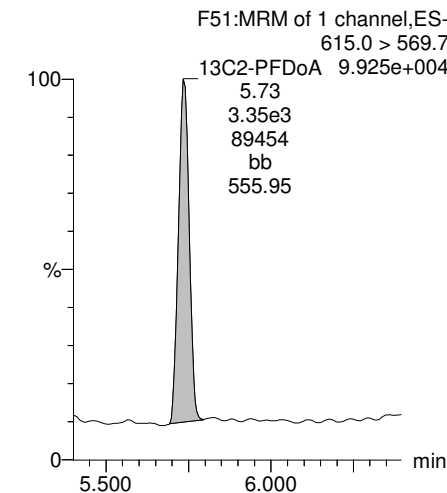
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA

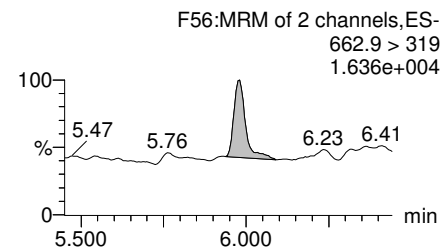
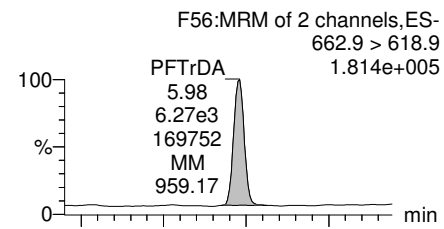


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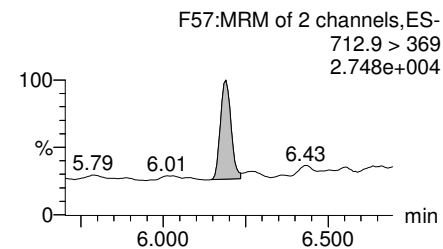
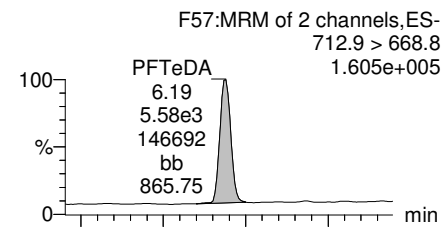
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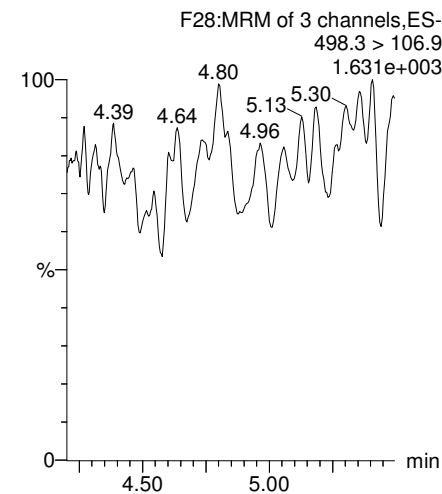
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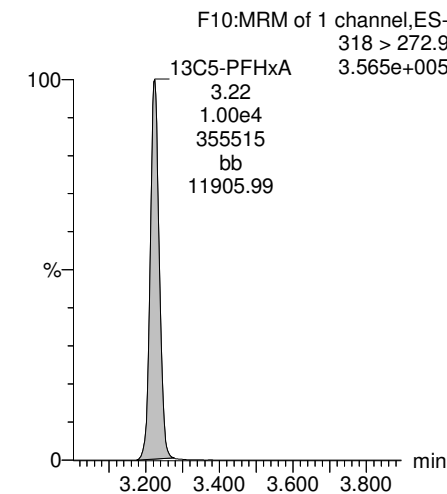
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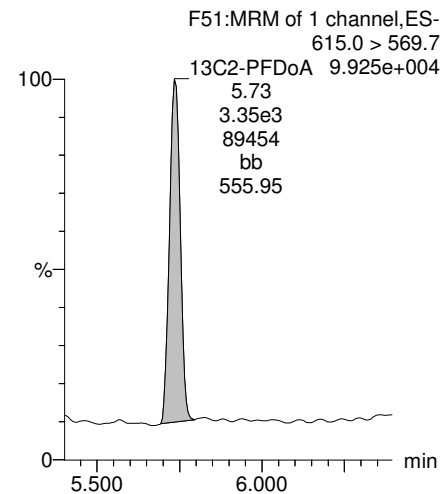
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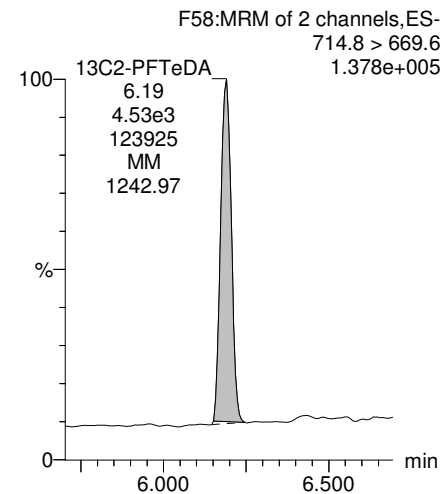
13C5-PFHxA



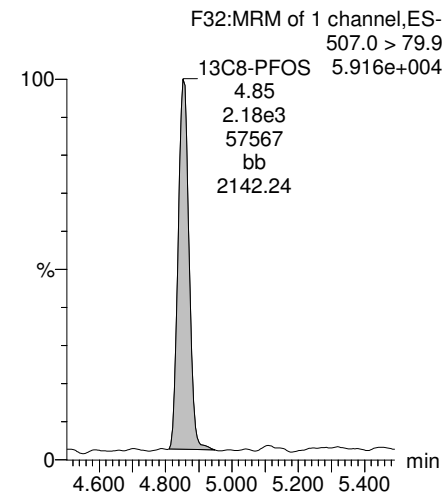
13C2-PFDoA



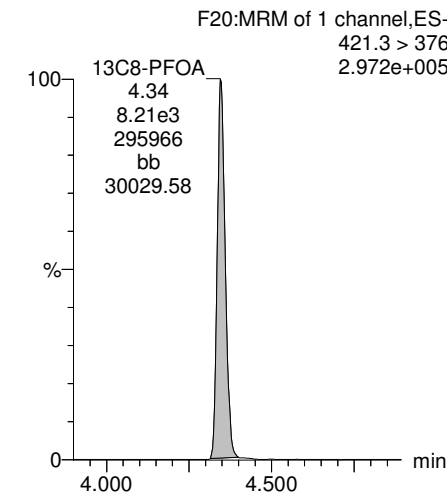
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

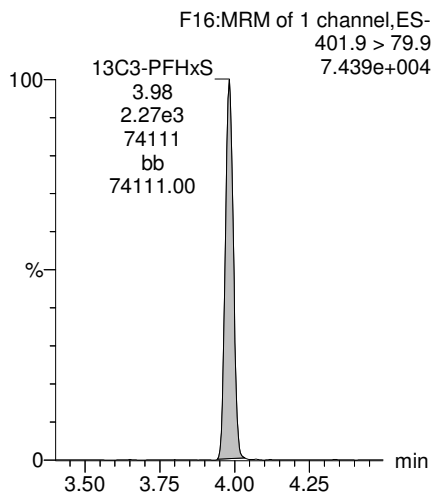


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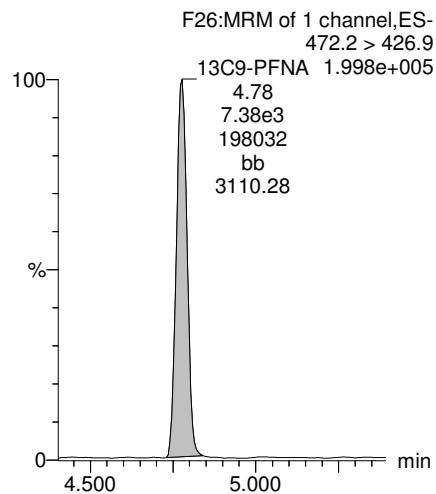
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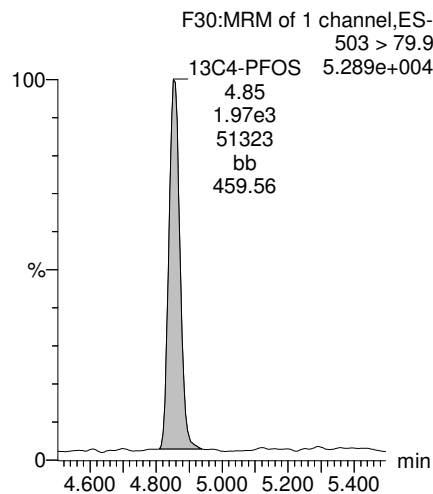
13C3-PFHxS



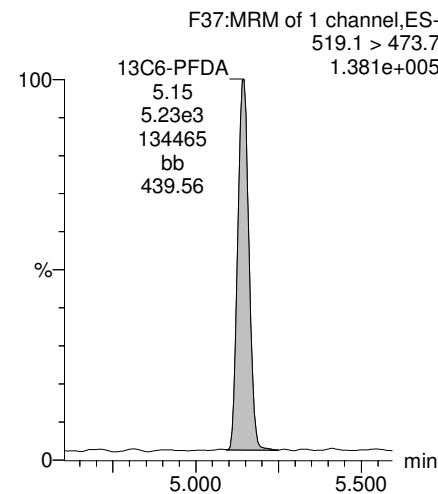
13C9-PFNA



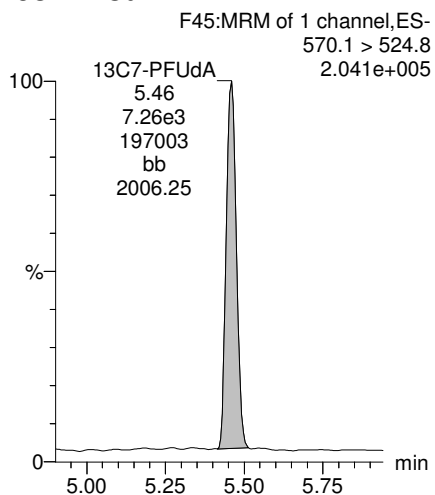
13C4-PFOS



13C6-PFDA



13C7-PFUDa



Dataset: U:\Q4.PRO\results\171223M1\171223M1-16.qld

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Printed: Tuesday, December 26, 2017 15:03:22 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_16, Date: 23-Dec-2017, Time: 15:44:45, ID: B7L0138-BSD1 LCSD 0.125, Description: LCSD

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.06e3	1.25e3	0.125		2.70	2.74	20.6	76.173	95.2
2	4	PFHxA	313.2 > 268.9	9.66e3	3.35e3	0.125		3.20	3.23	14.4	78.189	97.7
3	5	PFHpA	363.0 > 318.9	7.44e3	6.04e3	0.125		3.80	3.84	15.4	78.990	98.7
4	6	L-PFHxS	398.9 > 79.6	1.50e3	9.30e2	0.125		3.95	3.99	20.1	90.845	113.6
5	9	L-PFOA	413 > 368.7	6.77e3	8.17e3	0.125		4.32	4.35	10.4	79.636	99.5
6	12	PFNA	463.0 > 418.8	9.41e3	7.94e3	0.125		4.75	4.78	14.8	87.653	109.6
7	14	L-PFOS	499 > 79.9	2.27e3	2.38e3	0.125		4.83	4.86	11.9	86.900	108.6
8	16	PFDA	513 > 468.8	7.37e3	6.26e3	0.125		5.11	5.14	14.7	69.280	86.6
9	18	N-MeFOSAA	570.1 > 419	4.28e3	3.22e3	0.125		5.26	5.29	16.6	62.697	78.4
10	19	N-EtFOSAA	584.2 > 419	3.02e3	3.57e3	0.125		5.42	5.44	10.6	64.954	81.2
11	20	PFUdA	563.0 > 518.9	6.54e3	6.43e3	0.125		5.43	5.46	12.7	82.921	103.7
12	22	PFDoA	612.9 > 569.0	7.37e3	4.95e3	0.125		5.70	5.74	18.6	60.824	76.0

Dataset: U:\Q4.PRO\results\171223M1\171223M1-16.qld

Last Altered: Tuesday, December 26, 2017 14:59:06 Pacific Standard Time

Printed: Tuesday, December 26, 2017 15:03:41 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_16, Date: 23-Dec-2017, Time: 15:44:45, ID: B7L0138-BSD1 LCSD 0.125, Description: LCSD

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9	6.84e3	5.14e3	0.125		5.95	5.98	16.6	50.643	63.3
2	25 PFTeDA	712.9 > 668.8	6.72e3	5.14e3	0.125		6.16	6.19	16.3	81.424	101.8
3	33 13C3-PFBS	302. > 98.8	1.25e3	1.01e4	0.125	0.106	2.70	2.73	1.55	116.859	116.9
4	34 13C2-PFHxA	315 > 269.8	3.35e3	1.01e4	0.125	0.743	3.20	3.23	4.14	44.602	111.5
5	35 13C4-PFHpA	367.2 > 321.8	6.04e3	1.01e4	0.125	0.557	3.80	3.84	7.48	107.448	107.4
6	36 18O2-PFHxS	403.0 > 102.6	9.30e2	2.46e3	0.125	0.433	3.95	3.99	4.72	87.206	87.2
7	37 13C2-6:2 FTS	429.1 > 408.9	2.34e3	7.61e3	0.125	0.275	4.26	4.30	3.84	111.974	112.0
8	38 13C2-PFOA	414.9 > 369.7	8.17e3	7.61e3	0.125	1.141	4.32	4.35	13.4	94.025	94.0
9	39 13C5-PFNA	468.2 > 422.9	7.94e3	7.32e3	0.125	0.963	4.75	4.78	13.6	112.745	112.7
10	40 13C8-PFOSA	506.1 > 77.7	2.37e3	7.56e3	0.125	0.373	4.81	4.84	3.92	84.062	84.1
11	41 13C8-PFOS	507.0 > 79.9	2.38e3	2.46e3	0.125	1.075	4.83	4.86	12.1	90.176	90.2
12	42 13C2-PFDA	515.1 > 469.9	6.26e3	6.37e3	0.125	1.213	5.11	5.15	12.3	80.996	81.0
13	43 13C2-8:2 FTS	529.1 > 508.7	1.26e3	1.01e4	0.125	0.109	5.09	5.12	1.56	114.135	114.1
14	44 d3-N-MeFOSAA	573.3 > 419	3.22e3	7.56e3	0.125	0.405	5.26	5.29	5.33	105.101	105.1
15	45 d5-N-EtFOSAA	589.3 > 419	3.57e3	7.56e3	0.125	0.490	5.42	5.44	5.90	96.255	96.3
16	46 13C2-PFUdA	565 > 519.8	6.43e3	7.56e3	0.125	1.154	5.43	5.46	10.6	73.656	73.7
17	47 13C2-PFDoA	615.0 > 569.7	4.95e3	7.56e3	0.125	0.623	5.70	5.73	8.17	105.034	105.0
18	49 13C2-PFTeDA	714.8 > 669.6	5.14e3	7.56e3	0.125	0.706	6.16	6.19	8.49	96.275	96.3
19	55 13C5-PFHxA	318 > 272.9	1.01e4	1.01e4	0.125	1.000	3.20	3.23	12.5	100.000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.46e3	2.46e3	0.125	1.000	3.95	3.99	12.5	100.000	100.0
21	57 13C8-PFOA	421.3 > 376	7.61e3	7.61e3	0.125	1.000	4.32	4.35	12.5	100.000	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.32e3	7.32e3	0.125	1.000	4.75	4.78	12.5	100.000	100.0
23	59 13C4-PFOS	503 > 79.9	2.46e3	2.46e3	0.125	1.000	4.83	4.86	12.5	100.000	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.37e3	6.37e3	0.125	1.000	5.11	5.15	12.5	100.000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.56e3	7.56e3	0.125	1.000	5.43	5.46	12.5	100.000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.50e3	9.30e2	0.125		4.00		20.1	90.845	
27	63 Total PFOA	413 > 368.7	6.77e3	8.17e3	0.125		4.30		10.4	79.636	
28	64 Total PFOS	499 > 79.9	2.27e3	2.38e3	0.125		4.80		11.9	86.900	
29	65 Total N-MeFOSAA	570.1 > 419	4.42e3	3.22e3	0.125		5.20		17.1	65.753	
30	66 Total N-EtFOSAA	584.2 > 419	3.02e3	3.57e3	0.125		5.40		10.6	64.954	

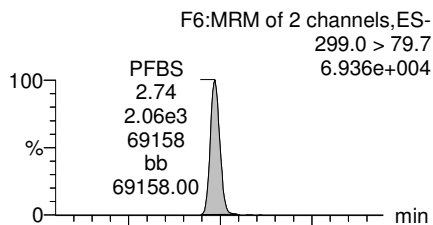
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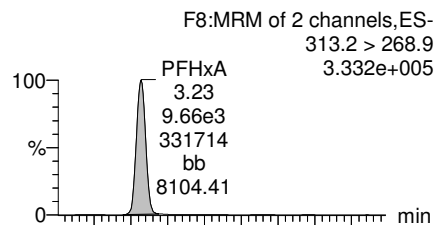
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Name: 171223M1_16, Date: 23-Dec-2017, Time: 15:44:45, ID: B7L0138-BSD1 LCSD 0.125, Description: LCSD

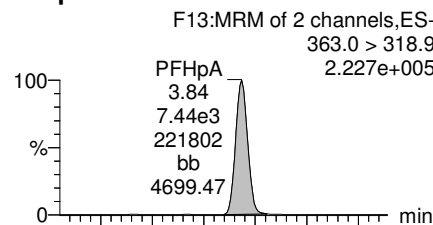
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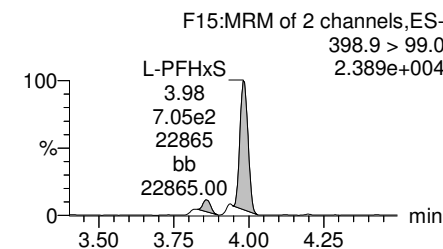
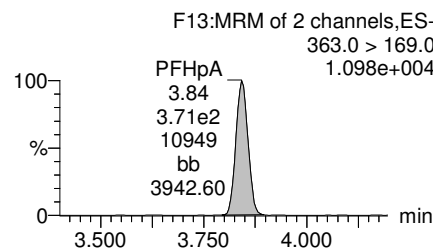
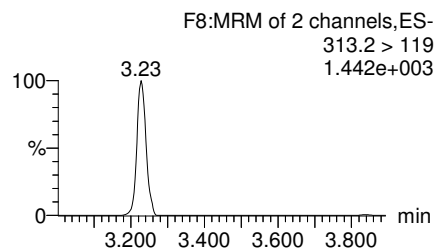
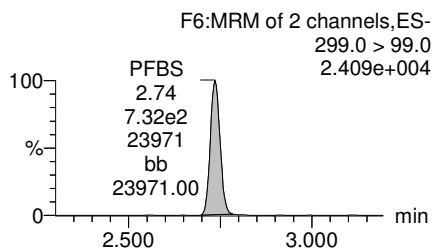
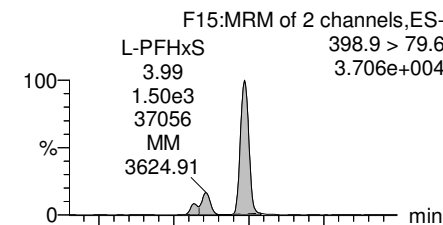
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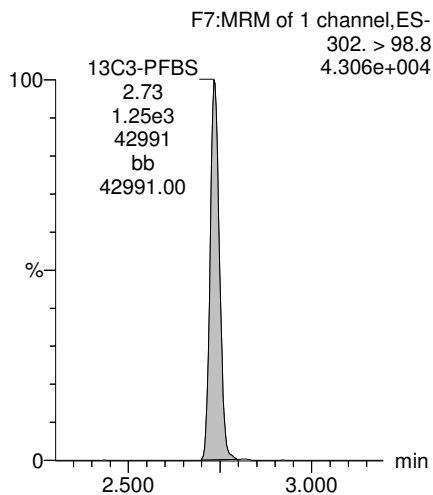
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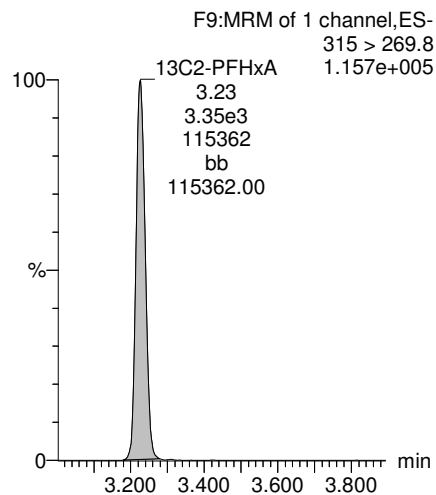
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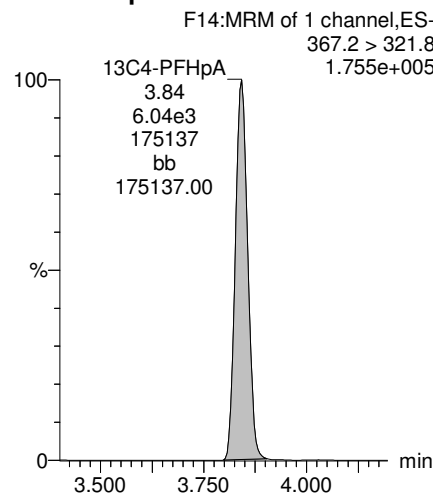
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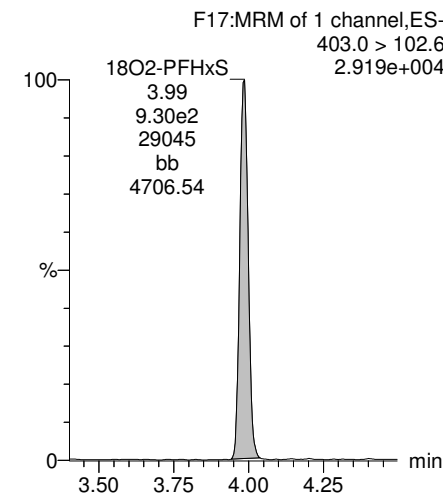
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

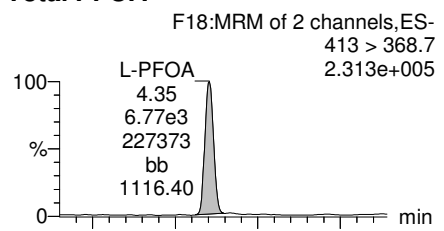


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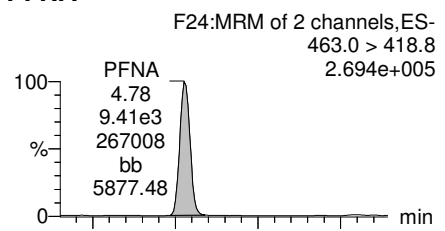
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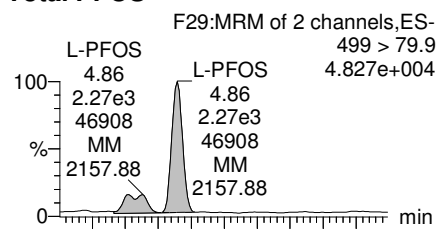
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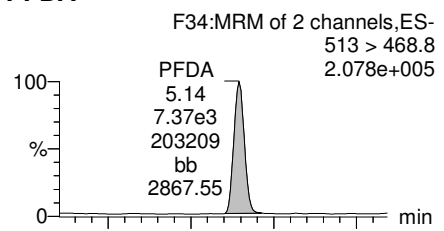
PFNA



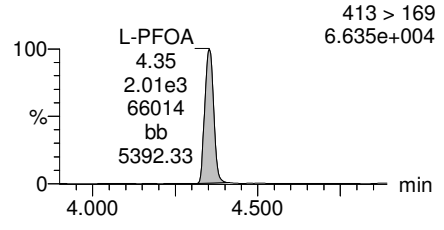
Total PFOS



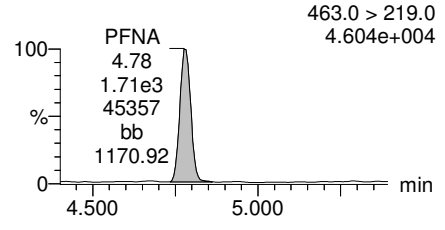
PFDA



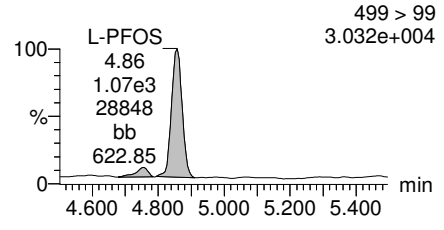
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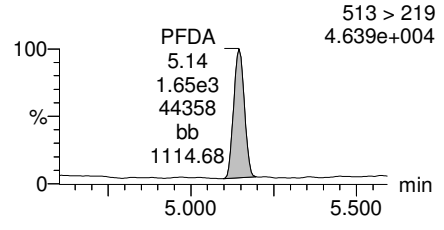
PFNA



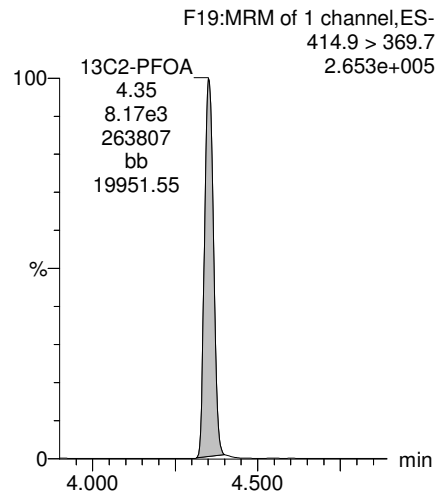
Total PFOS



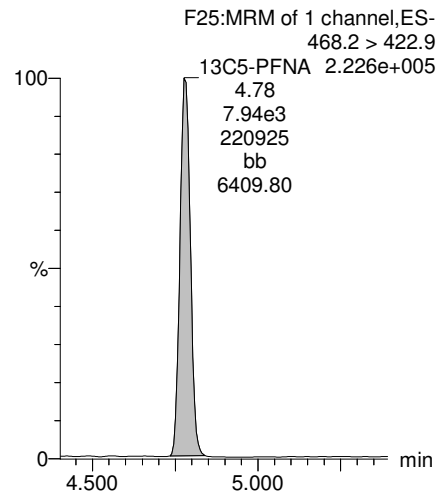
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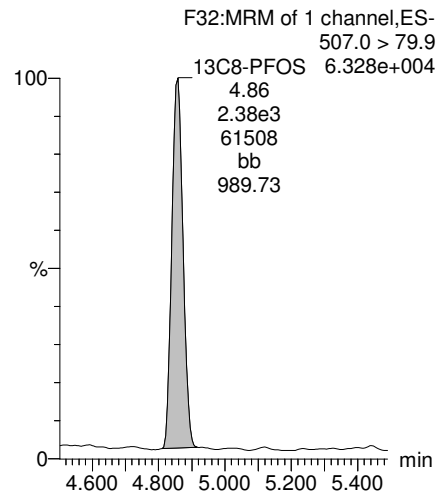
13C2-PFOA



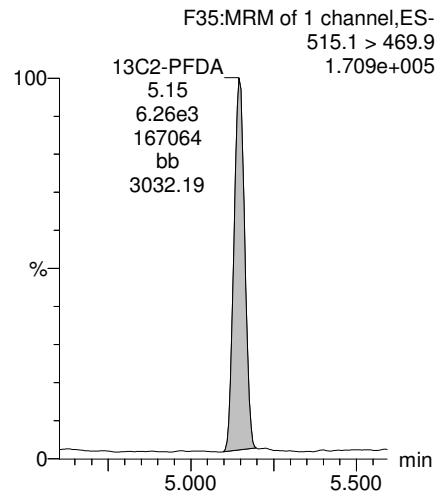
13C5-PFNA



13C8-PFOS



13C2-PFDA

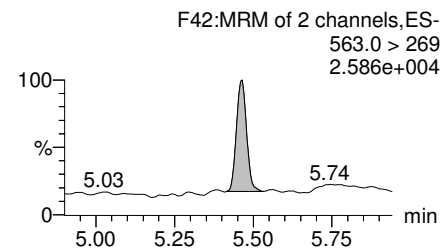
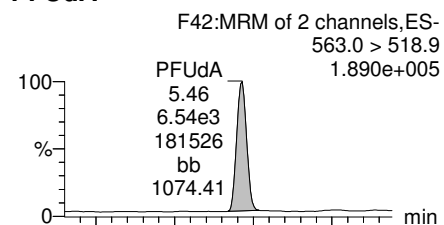


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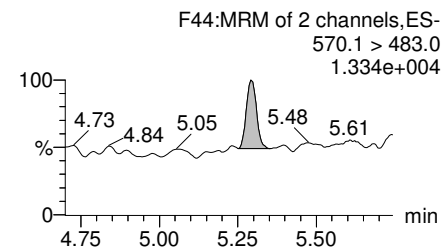
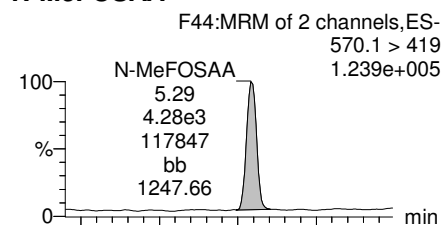
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Printed: Tuesday, December 26, 2017 15:03:41 Pacific Standard Time

Name: 171223M1_16, Date: 23-Dec-2017, Time: 15:44:45, ID: B7L0138-BSD1 LCSD 0.125, Description: LCSD

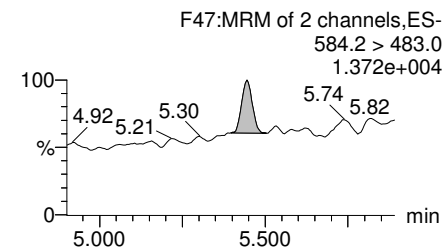
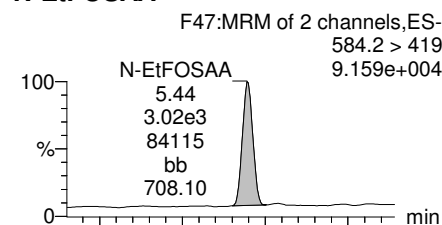
PFUdA



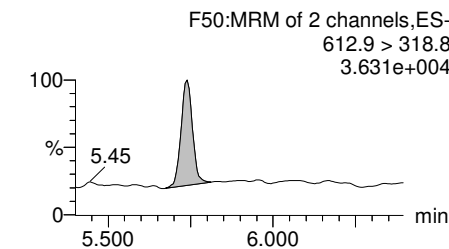
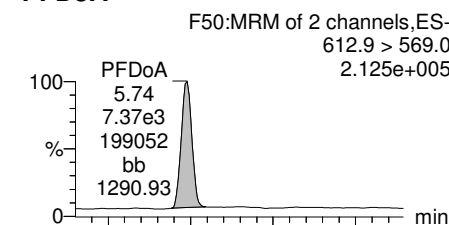
N-MeFOSAA



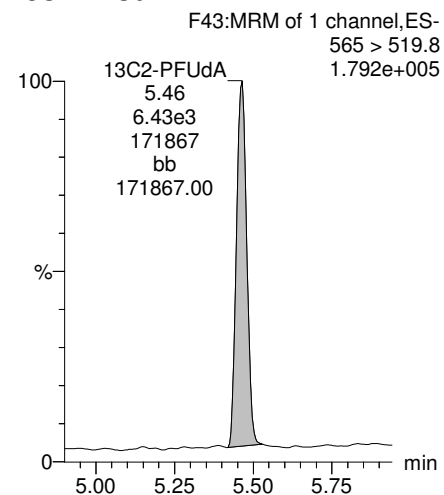
N-EtFOSAA



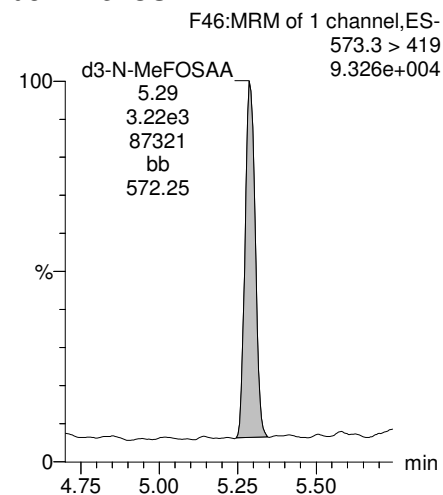
PFDoA



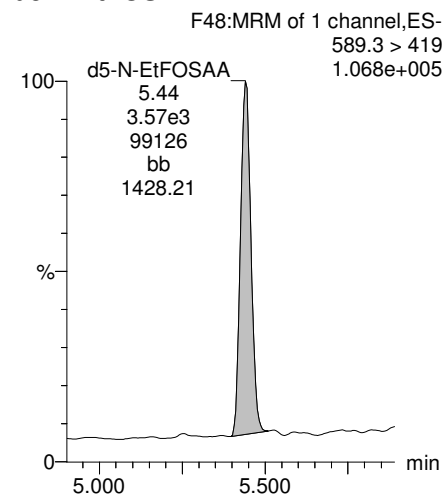
13C2-PFUdA



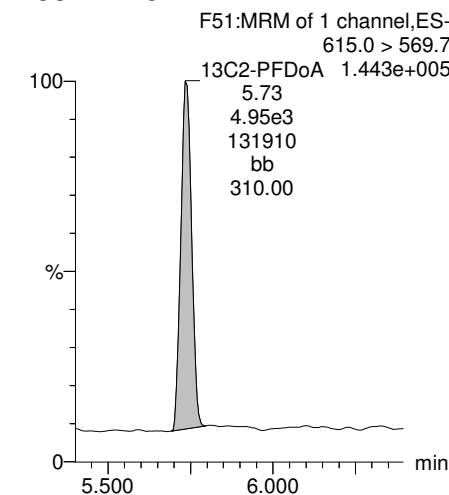
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA

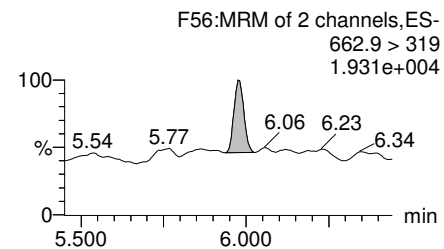
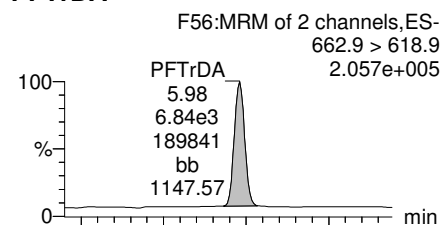


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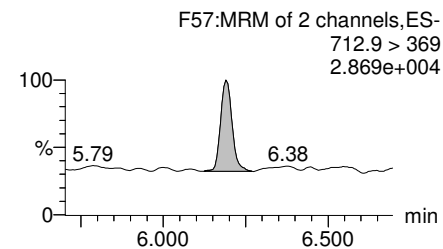
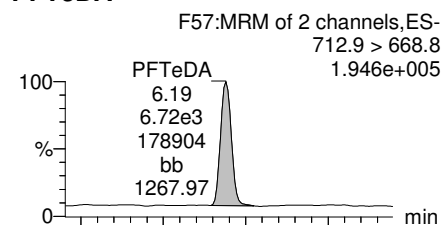
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Name: 171223M1_16, Date: 23-Dec-2017, Time: 15:44:45, ID: B7L0138-BSD1 LCSD 0.125, Description: LCSD

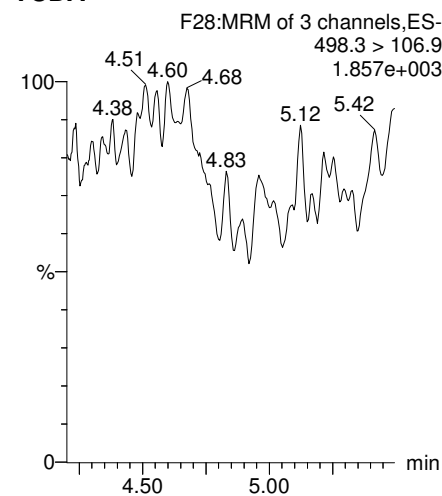
PFTrDA



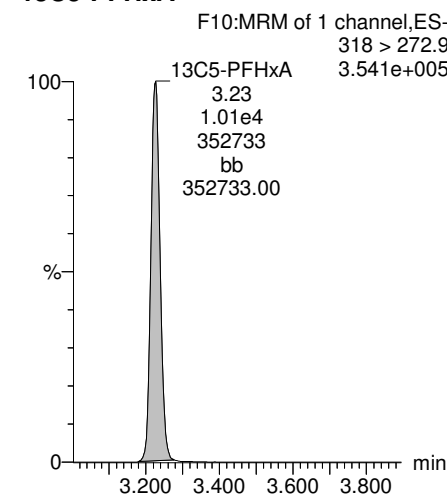
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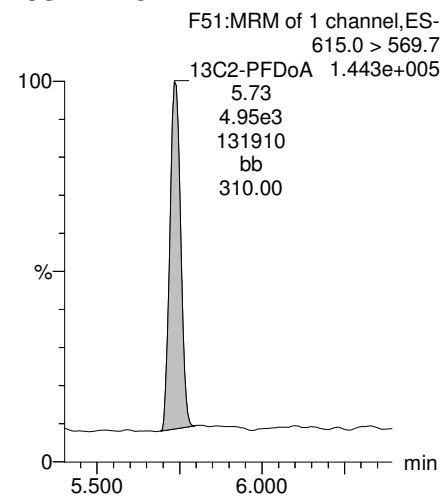
TCDA



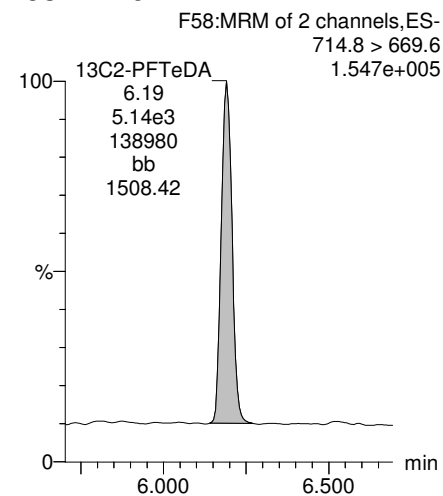
13C5-PFHxA



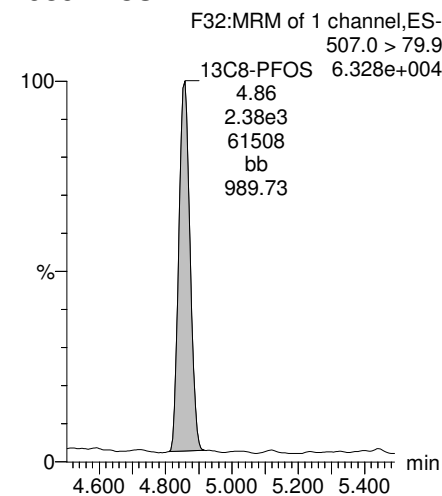
13C2-PFDoA



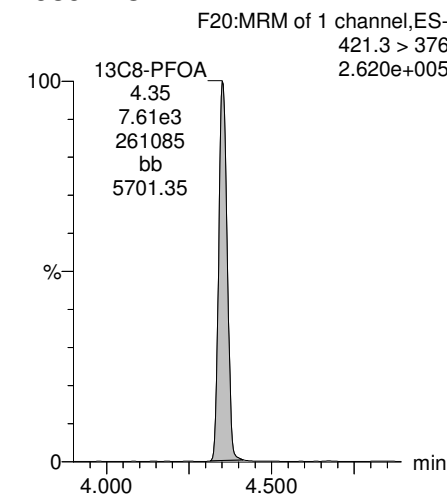
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

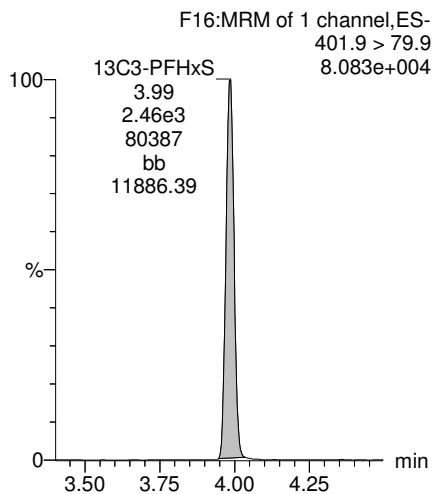


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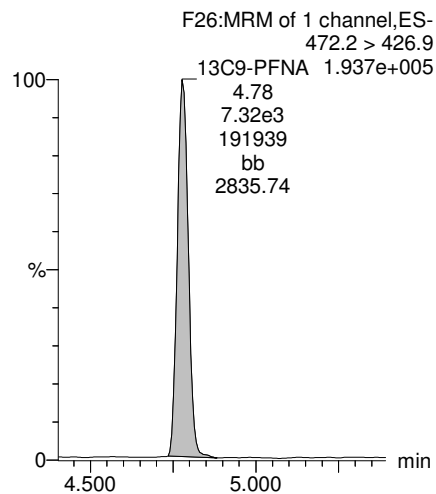
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Printed: Tuesday, December 26, 2017 15:03:41 Pacific Standard Time

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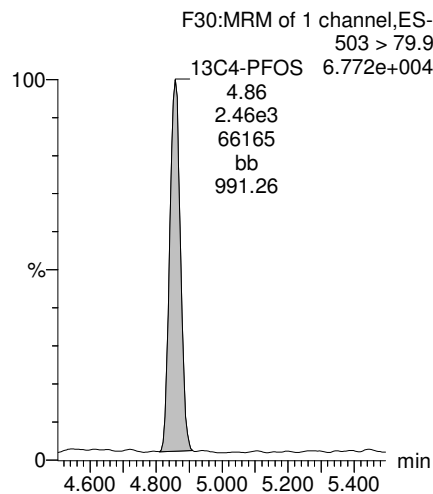
13C3-PFHxS



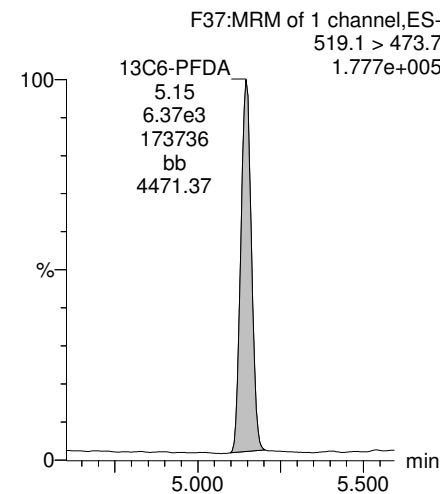
13C9-PFNA



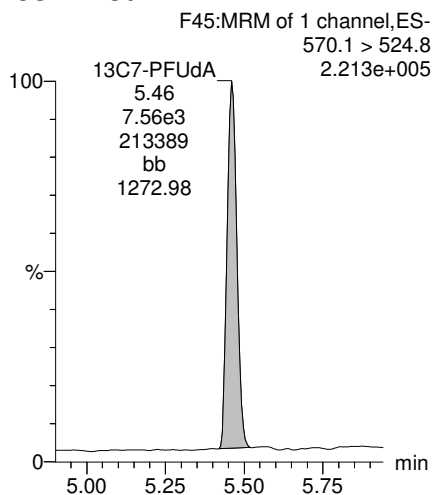
13C4-PFOS



13C6-PFDA



13C7-PFudA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-19.qld

Last Altered: Tuesday, December 26, 2017 16:23:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 16:24:06 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_19, Date: 23-Dec-2017, Time: 16:18:17, ID: 1701882-01 WI-A06-6-I-01-1217 0.11568, Description: WI-A06-6-I-01-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	2.27e0	1.14e3	0.116		2.70	2.74	0.0249	0.430	
2	4 PFHxA	313.2 > 268.9		3.01e3	0.116		3.20				
3	5 PFHpA	363.0 > 318.9		5.83e3	0.116		3.80				
4	6 L-PFHxS	398.9 > 79.6		9.79e2	0.116		3.95				
5	9 L-PFOA	413 > 368.7	2.19e2	8.65e3	0.116		4.32	4.35	0.316	1.089	
6	12 PFNA	463.0 > 418.8		8.37e3	0.116		4.75				
7	14 L-PFOS	499 > 79.9		2.76e3	0.116		4.83				
8	16 PFDA	513 > 468.8		6.59e3	0.116		5.11				
9	18 N-MeFOSAA	570.1 > 419		2.94e3	0.116		5.26				
10	19 N-EtFOSAA	584.2 > 419		3.91e3	0.116		5.42				
11	20 PFUdA	563.0 > 518.9		7.18e3	0.116		5.43				
12	22 PFDoA	612.9 > 569.0		4.14e3	0.116		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-19.qld

Last Altered: Tuesday, December 26, 2017 16:23:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 16:24:18 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_19, Date: 23-Dec-2017, Time: 16:18:17, ID: 1701882-01 WI-A06-6-I-01-1217 0.11568, Description: WI-A06-6-I-01-1217

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.31e3	0.116		5.95				
2	25 PFTeDA	712.9 > 668.8		4.31e3	0.116		6.16				
3	33 13C3-PFBS	302. > 98.8	1.14e3	9.32e3	0.116	0.106	2.70	2.73	1.53	124.541	115.3
4	34 13C2-PFHxA	315 > 269.8	3.01e3	9.32e3	0.116	0.743	3.20	3.23	4.04	47.010	108.8
5	35 13C4-PFHpA	367.2 > 321.8	5.83e3	9.32e3	0.116	0.557	3.80	3.84	7.81	121.367	112.3
6	36 18O2-PFHxS	403.0 > 102.6	9.79e2	2.45e3	0.116	0.433	3.95	3.98	5.00	99.895	92.4
7	37 13C2-6:2 FTS	429.1 > 408.9	2.34e3	6.80e3	0.116	0.275	4.26	4.30	4.30	135.332	125.2
8	38 13C2-PFOA	414.9 > 369.7	8.65e3	6.80e3	0.116	1.141	4.32	4.35	15.9	120.504	111.5
9	39 13C5-PFNA	468.2 > 422.9	8.37e3	7.97e3	0.116	0.963	4.75	4.78	13.1	117.952	109.2
10	40 13C8-PFOA	506.1 > 77.7	2.26e3	6.36e3	0.116	0.373	4.81	4.84	4.45	103.044	95.4
11	41 13C8-PFOS	507.0 > 79.9	2.76e3	2.30e3	0.116	1.075	4.83	4.86	15.0	120.923	111.9
12	42 13C2-PFDA	515.1 > 469.9	6.59e3	5.54e3	0.116	1.213	5.11	5.15	14.9	105.850	98.0
13	43 13C2-8:2 FTS	529.1 > 508.7	1.19e3	9.32e3	0.116	0.109	5.09	5.12	1.60	126.389	117.0
14	44 d3-N-MeFOSAA	573.3 > 419	2.94e3	6.36e3	0.116	0.405	5.26	5.29	5.77	123.024	113.9
15	45 d5-N-EtFOSAA	589.3 > 419	3.91e3	6.36e3	0.116	0.490	5.42	5.44	7.67	135.353	125.3
16	46 13C2-PFUdA	565 > 519.8	7.18e3	6.36e3	0.116	1.154	5.43	5.46	14.1	105.679	97.8
17	47 13C2-PFDoA	615.0 > 569.7	4.14e3	6.36e3	0.116	0.623	5.70	5.74	8.13	112.954	104.5
18	49 13C2-PFTeDA	714.8 > 669.6	4.31e3	6.36e3	0.116	0.706	6.16	6.19	8.47	103.787	96.0
19	55 13C5-PFHxA	318 > 272.9	9.32e3	9.32e3	0.116	1.000	3.20	3.22	12.5	108.057	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.45e3	2.45e3	0.116	1.000	3.95	3.98	12.5	108.057	100.0
21	57 13C8-PFOA	421.3 > 376	6.80e3	6.80e3	0.116	1.000	4.32	4.35	12.5	108.057	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.97e3	7.97e3	0.116	1.000	4.75	4.78	12.5	108.057	100.0
23	59 13C4-PFOS	503 > 79.9	2.30e3	2.30e3	0.116	1.000	4.83	4.86	12.5	108.057	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.54e3	5.54e3	0.116	1.000	5.11	5.15	12.5	108.057	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.36e3	6.36e3	0.116	1.000	5.43	5.46	12.5	108.057	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	9.79e2	0.116		4.00		0.000		
27	63 Total PFOA	413 > 368.7	2.19e2	8.65e3	0.116		4.30		0.316	1.089	
28	64 Total PFOS	499 > 79.9	0.00e0	2.76e3	0.116		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.94e3	0.116		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.91e3	0.116		5.40		0.000		

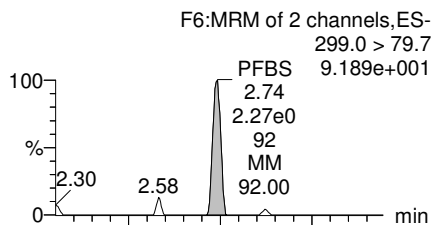
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Printed: Tuesday, December 26, 2017 16:24:18 Pacific Standard Time

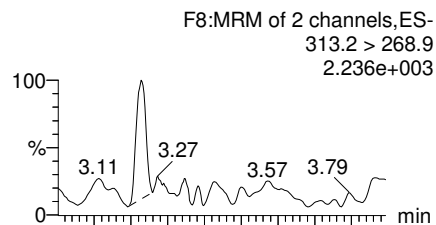
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_19, Date: 23-Dec-2017, Time: 16:18:17, ID: 1701882-01 WI-A06-6-I-01-1217 0.11568, Description: WI-A06-6-I-01-1217

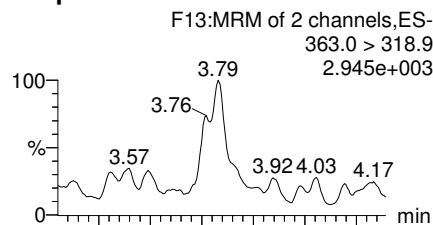
PFBS



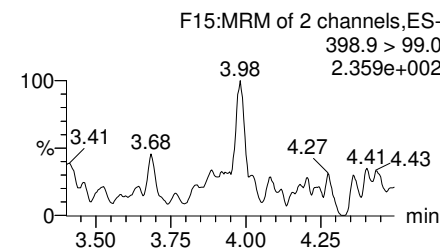
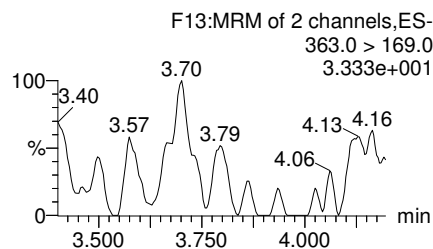
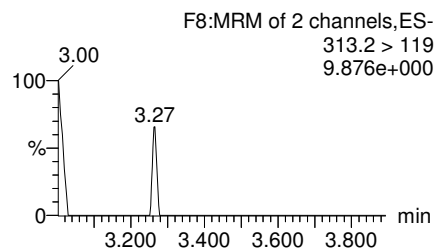
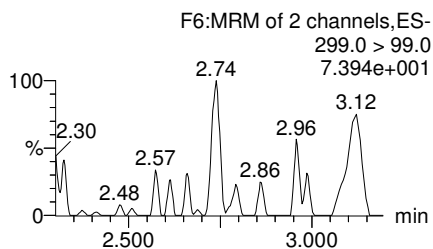
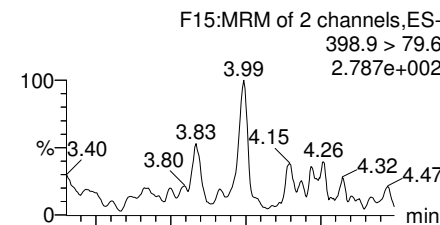
PFHxA



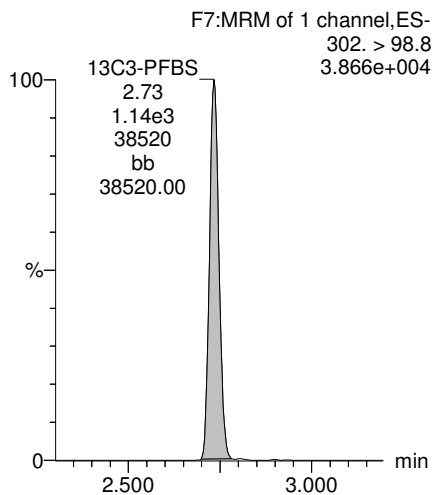
PFHpA



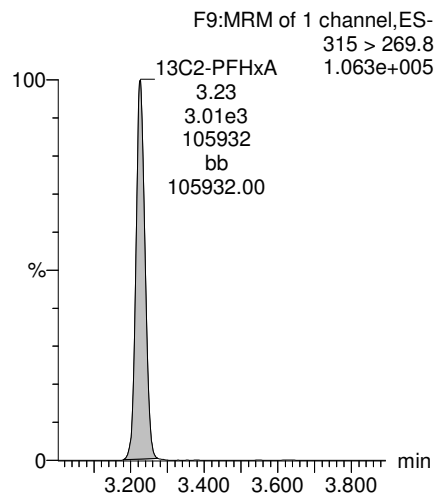
Total PFHxS



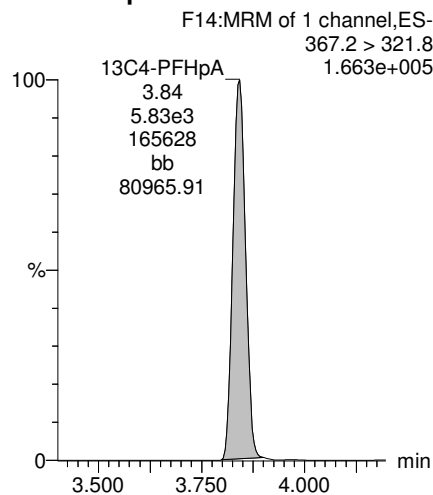
13C3-PFBS



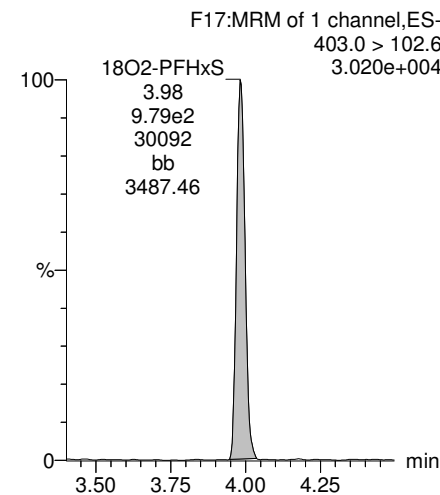
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

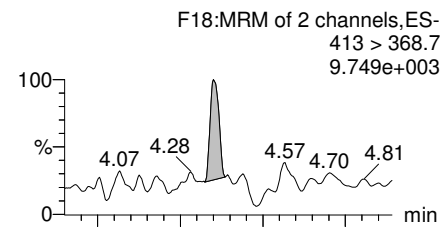


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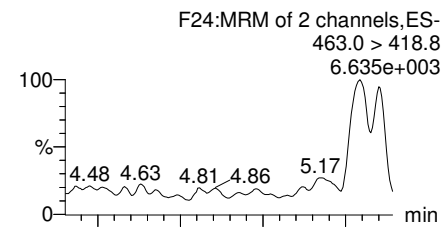
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Printed: Tuesday, December 26, 2017 16:24:18 Pacific Standard Time

Name: 171223M1_19, Date: 23-Dec-2017, Time: 16:18:17, ID: 1701882-01 WI-A06-6-I-01-1217 0.11568, Description: WI-A06-6-I-01-1217

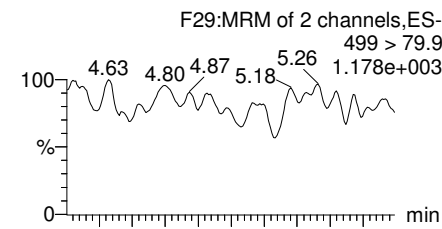
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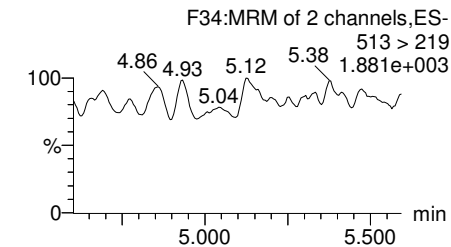
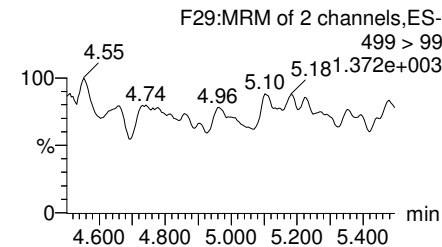
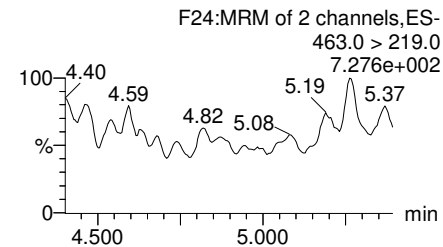
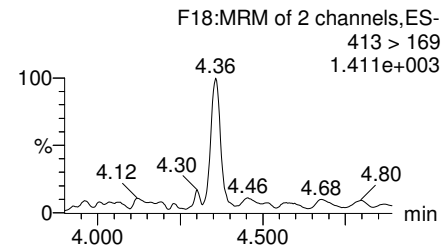
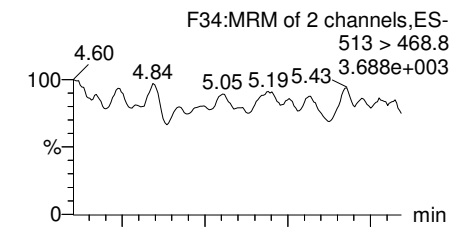
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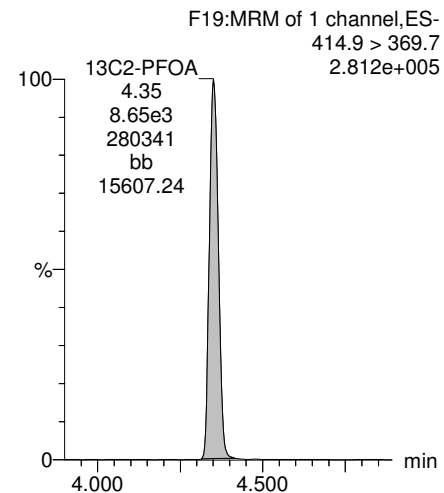
Total PFOS



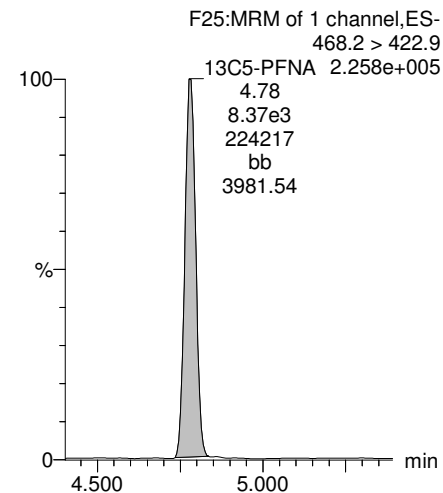
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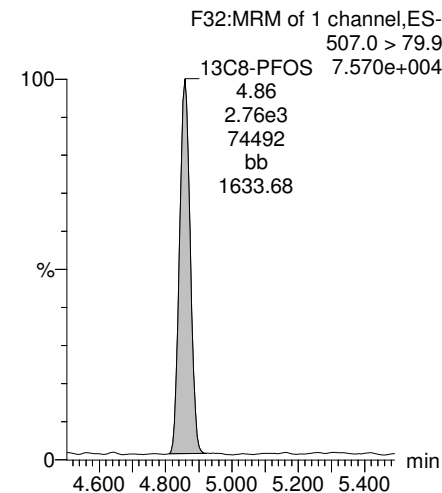
13C2-PFOA



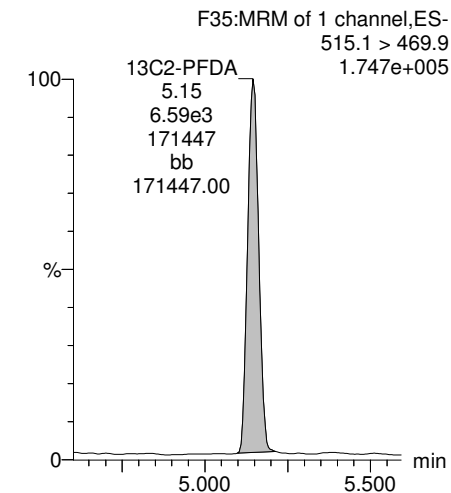
13C5-PFNA



13C8-PFOS



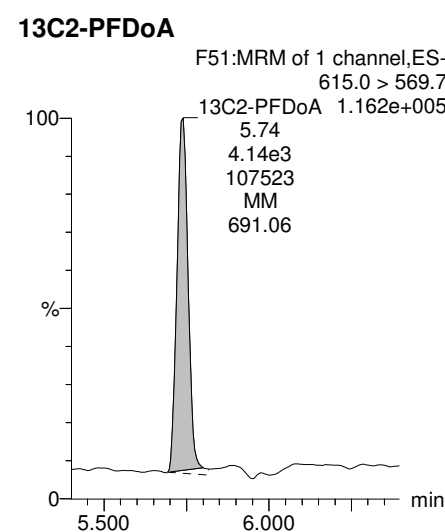
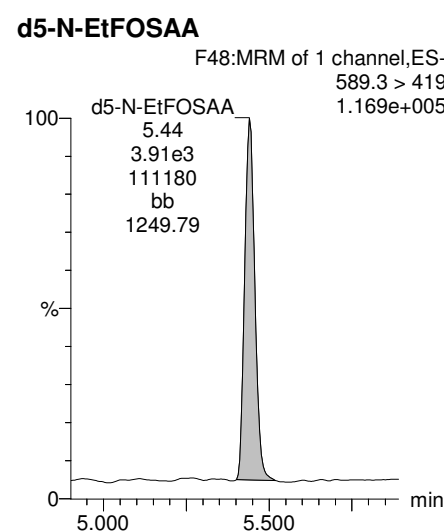
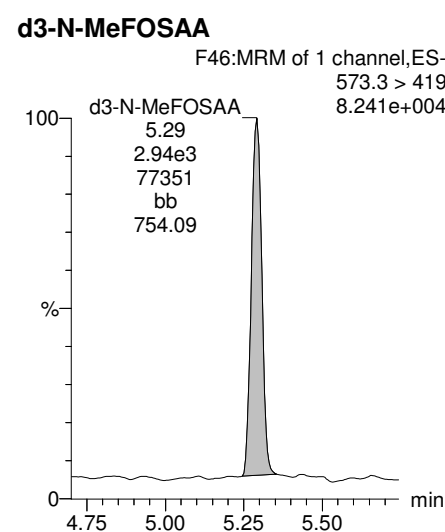
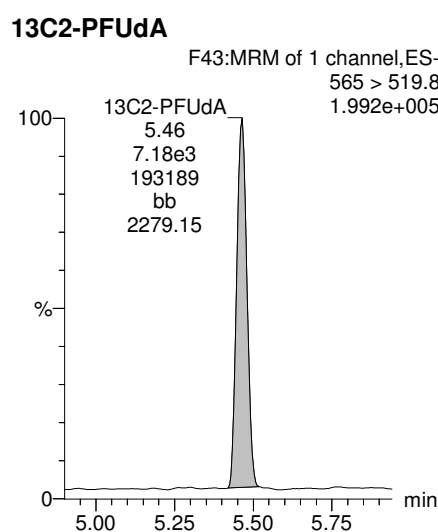
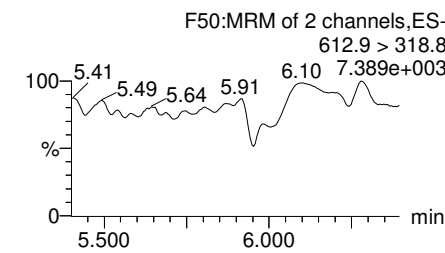
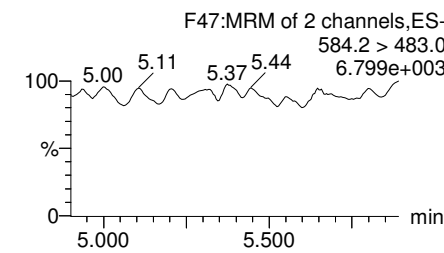
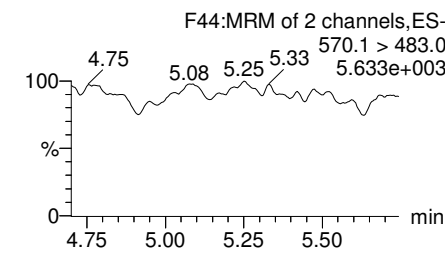
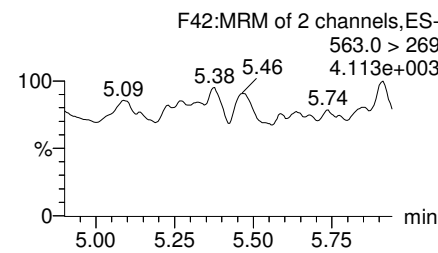
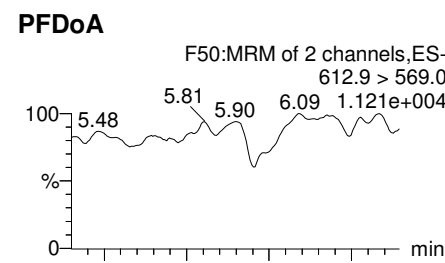
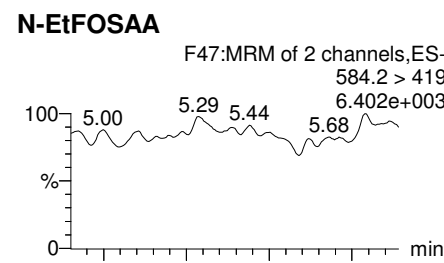
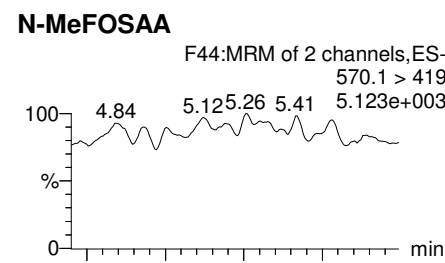
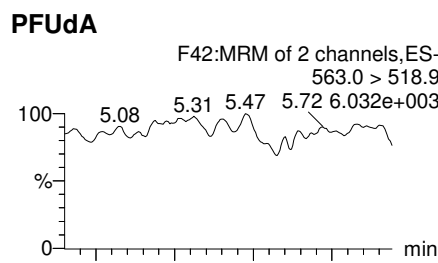
13C2-PFDA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-19.qld

Last Altered: Tuesday, December 26, 2017 16:23:30 Pacific Standard Time
Printed: Tuesday, December 26, 2017 16:24:18 Pacific Standard Time

Name: 171223M1_19, Date: 23-Dec-2017, Time: 16:18:17, ID: 1701882-01 WI-A06-6-I-01-1217 0.11568, Description: WI-A06-6-I-01-1217

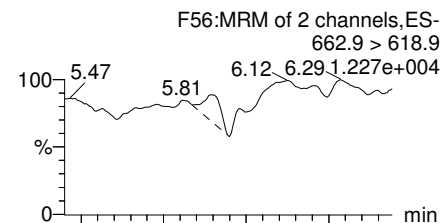


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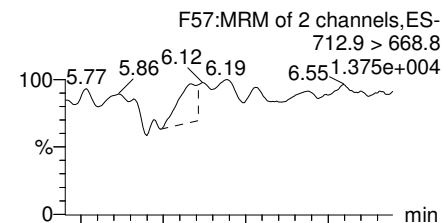
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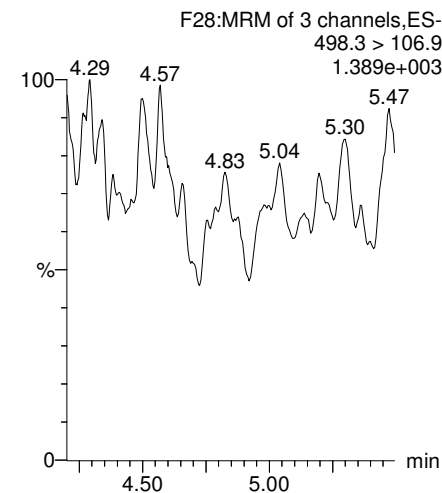
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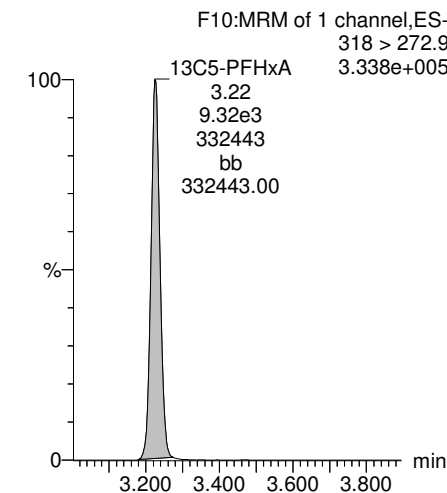
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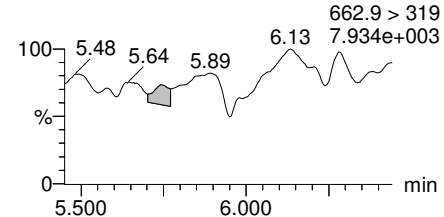
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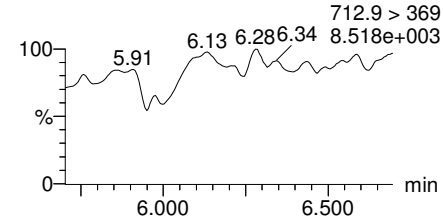
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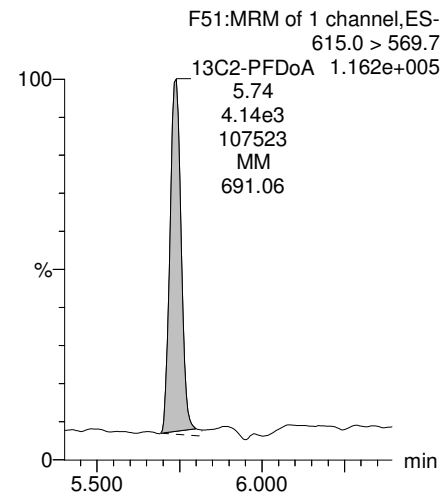
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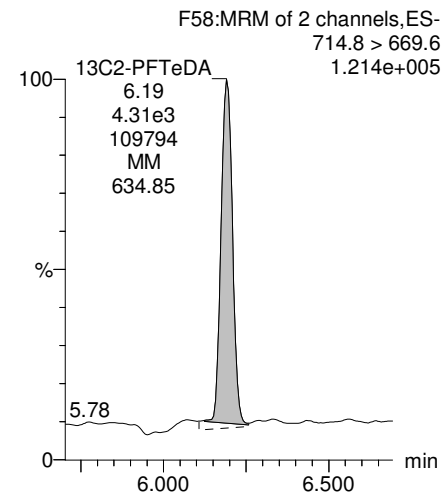
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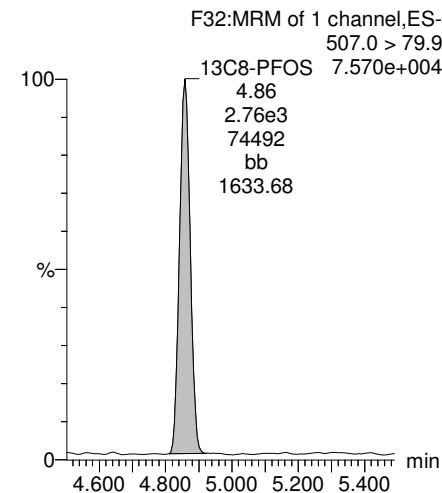
13C2-PFDoA



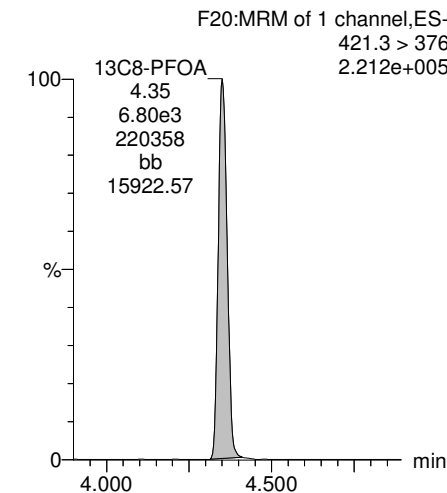
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

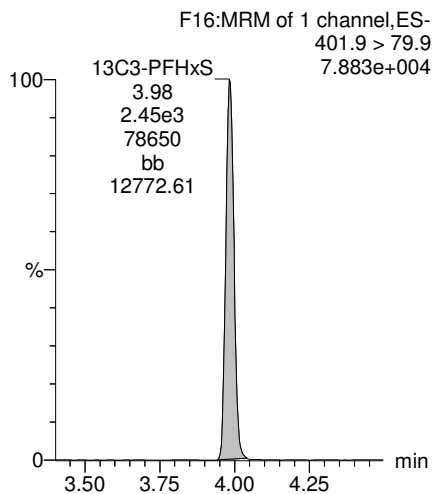


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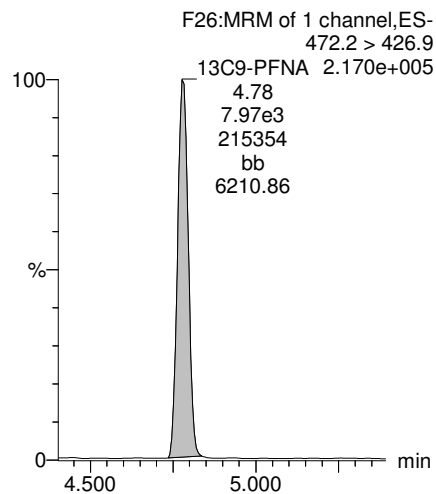
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Name: 171223M1_19, Date: 23-Dec-2017, Time: 16:18:17, ID: 1701882-01 WI-A06-6-I-01-1217 0.11568, Description: WI-A06-6-I-01-1217

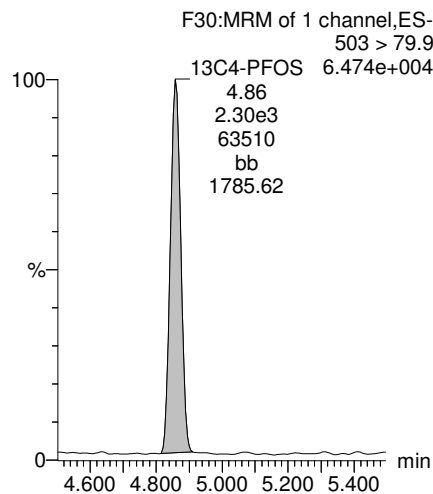
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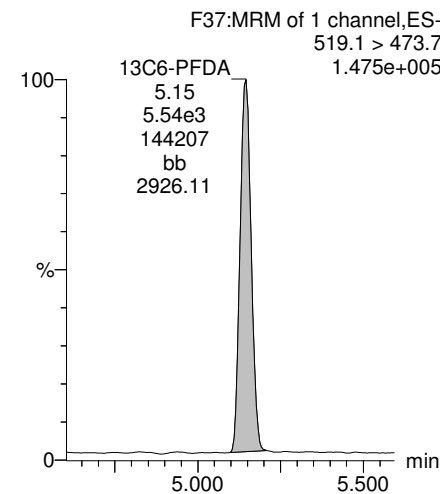
13C9-PFNA



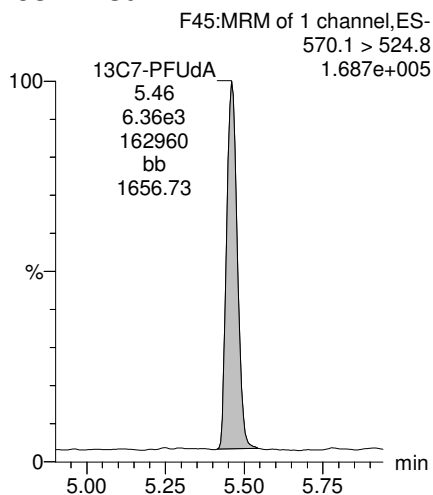
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-20.qld

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Printed: Tuesday, December 26, 2017 16:26:24 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_20, Date: 23-Dec-2017, Time: 16:29:28, ID: 1701882-03 WI-A06-EB01-120517 0.11513, Description: WI-A06-EB01-120517

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		1.09e3	0.115		2.70				
2	4	PFHxA	313.2 > 268.9		3.16e3	0.115		3.20				
3	5	PFHpA	363.0 > 318.9		6.50e3	0.115		3.80				
4	6	L-PFHxS	398.9 > 79.6		1.07e3	0.115		3.95				
5	9	L-PFOA	413 > 368.7		9.41e3	0.115		4.32				
6	12	PFNA	463.0 > 418.8		6.68e3	0.115		4.75				
7	14	L-PFOS	499 > 79.9		2.59e3	0.115		4.83				
8	16	PFDA	513 > 468.8		6.72e3	0.115		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.84e3	0.115		5.26				
10	19	N-EtFOSAA	584.2 > 419		3.50e3	0.115		5.42				
11	20	PFUdA	563.0 > 518.9		5.96e3	0.115		5.43				
12	22	PFDoA	612.9 > 569.0		4.05e3	0.115		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-20.qld

Last Altered: Tuesday, December 26, 2017 16:25:58 Pacific Standard Time

Printed: Tuesday, December 26, 2017 16:26:39 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_20, Date: 23-Dec-2017, Time: 16:29:28, ID: 1701882-03 WI-A06-EB01-120517 0.11513, Description: WI-A06-EB01-120517

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.67e3	0.115		5.95				
2	25 PFTeDA	712.9 > 668.8		4.67e3	0.115		6.16				
3	33 13C3-PFBS	302. > 98.8	1.09e3	9.85e3	0.115	0.106	2.70	2.73	1.38	113.442	104.5
4	34 13C2-PFHxA	315 > 269.8	3.16e3	9.85e3	0.115	0.743	3.20	3.22	4.02	46.929	108.1
5	35 13C4-PFHpA	367.2 > 321.8	6.50e3	9.85e3	0.115	0.557	3.80	3.84	8.25	128.697	118.5
6	36 18O2-PFHxS	403.0 > 102.6	1.07e3	2.05e3	0.115	0.433	3.95	3.98	6.56	131.659	121.3
7	37 13C2-6:2 FTS	429.1 > 408.9	2.19e3	7.09e3	0.115	0.275	4.26	4.30	3.86	122.037	112.4
8	38 13C2-PFOA	414.9 > 369.7	9.41e3	7.09e3	0.115	1.141	4.32	4.35	16.6	126.114	116.2
9	39 13C5-PFNA	468.2 > 422.9	6.68e3	6.28e3	0.115	0.963	4.75	4.78	13.3	120.074	110.6
10	40 13C8-PFOA	506.1 > 77.7	2.33e3	6.04e3	0.115	0.373	4.81	4.83	4.82	112.157	103.3
11	41 13C8-PFOS	507.0 > 79.9	2.59e3	2.60e3	0.115	1.075	4.83	4.85	12.5	100.947	93.0
12	42 13C2-PFDA	515.1 > 469.9	6.72e3	6.17e3	0.115	1.213	5.11	5.14	13.6	97.402	89.7
13	43 13C2-8:2 FTS	529.1 > 508.7	8.99e2	9.85e3	0.115	0.109	5.09	5.11	1.14	90.684	83.5
14	44 d3-N-MeFOSAA	573.3 > 419	2.84e3	6.04e3	0.115	0.405	5.26	5.29	5.89	126.098	116.1
15	45 d5-N-EtFOSAA	589.3 > 419	3.50e3	6.04e3	0.115	0.490	5.42	5.44	7.24	128.237	118.1
16	46 13C2-PFUdA	565 > 519.8	5.96e3	6.04e3	0.115	1.154	5.43	5.46	12.3	92.779	85.5
17	47 13C2-PFDoA	615.0 > 569.7	4.05e3	6.04e3	0.115	0.623	5.70	5.73	8.39	116.991	107.8
18	49 13C2-PFTeDA	714.8 > 669.6	4.67e3	6.04e3	0.115	0.706	6.16	6.19	9.66	118.884	109.5
19	55 13C5-PFHxA	318 > 272.9	9.85e3	9.85e3	0.115	1.000	3.20	3.22	12.5	108.573	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.05e3	2.05e3	0.115	1.000	3.95	3.98	12.5	108.573	100.0
21	57 13C8-PFOA	421.3 > 376	7.09e3	7.09e3	0.115	1.000	4.32	4.35	12.5	108.573	100.0
22	58 13C9-PFNA	472.2 > 426.9	6.28e3	6.28e3	0.115	1.000	4.75	4.78	12.5	108.573	100.0
23	59 13C4-PFOS	503 > 79.9	2.60e3	2.60e3	0.115	1.000	4.83	4.85	12.5	108.573	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.17e3	6.17e3	0.115	1.000	5.11	5.14	12.5	108.573	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.04e3	6.04e3	0.115	1.000	5.43	5.46	12.5	108.573	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	1.07e3	0.115		4.00		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	9.41e3	0.115		4.30		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	2.59e3	0.115		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.84e3	0.115		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.50e3	0.115		5.40		0.000		

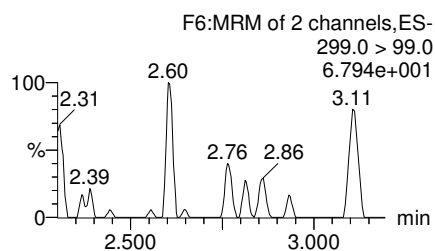
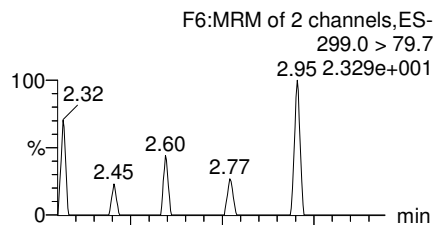
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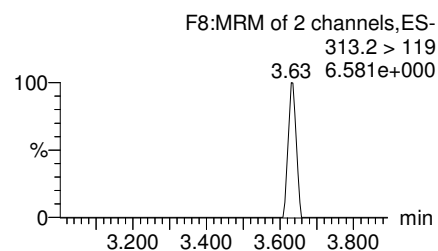
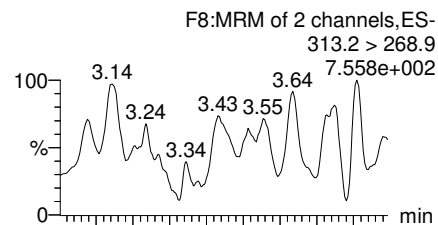
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_20, Date: 23-Dec-2017, Time: 16:29:28, ID: 1701882-03 WI-A06-EB01-120517 0.11513, Description: WI-A06-EB01-120517

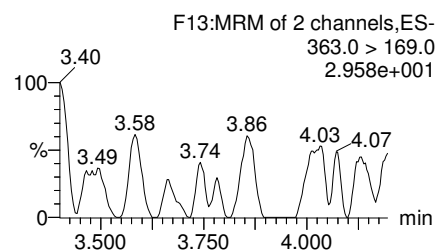
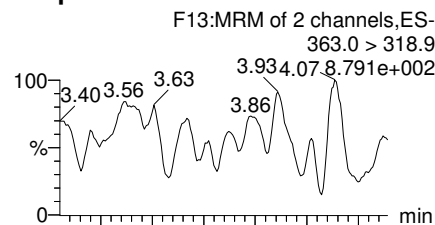
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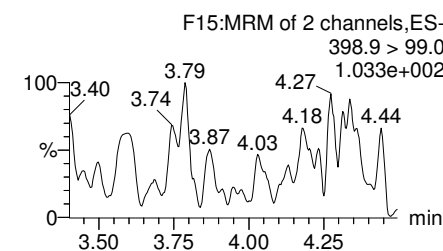
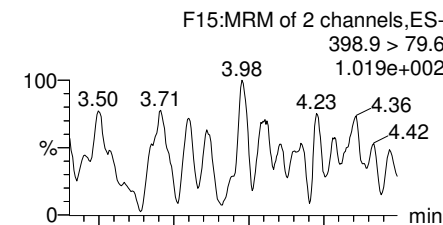
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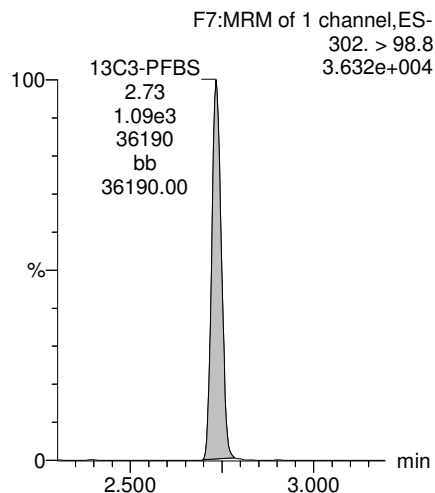
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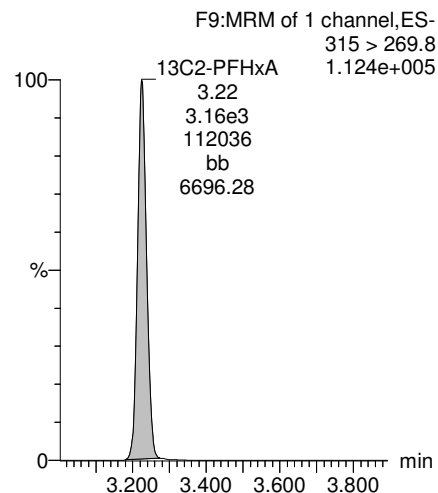
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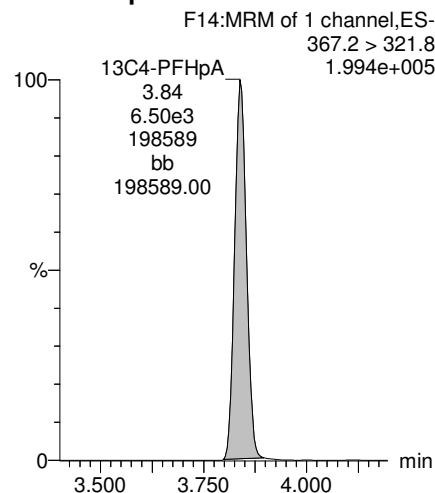
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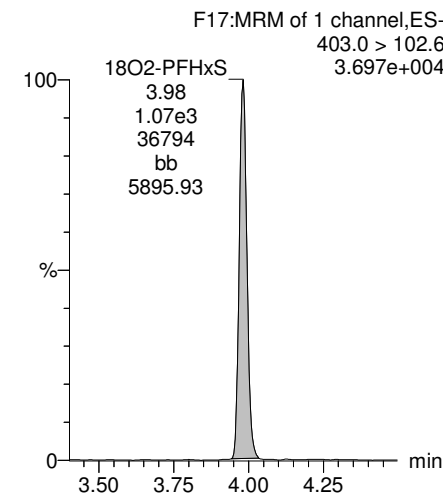
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

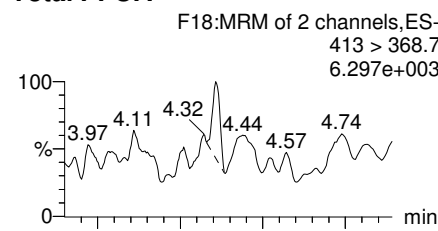


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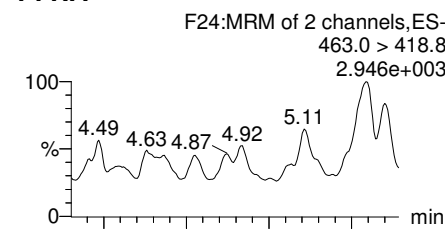
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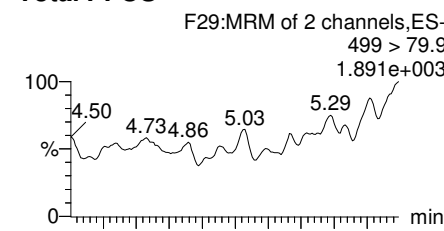
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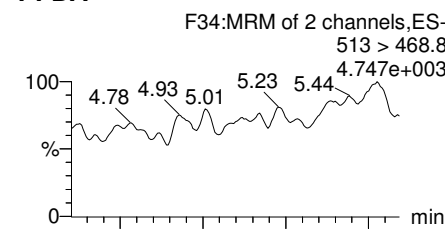
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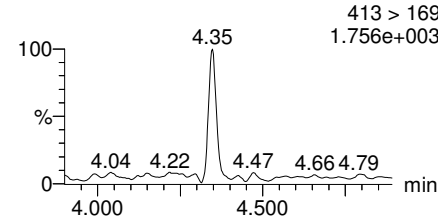
Total PFOS



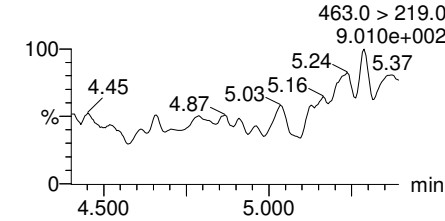
PFDA



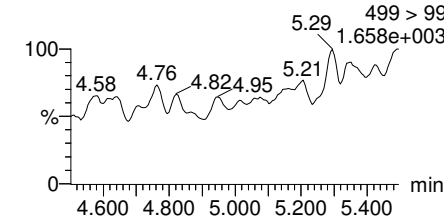
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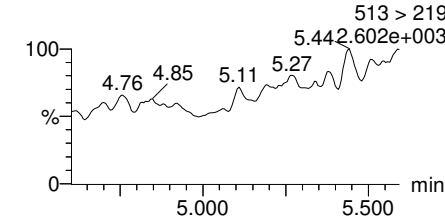
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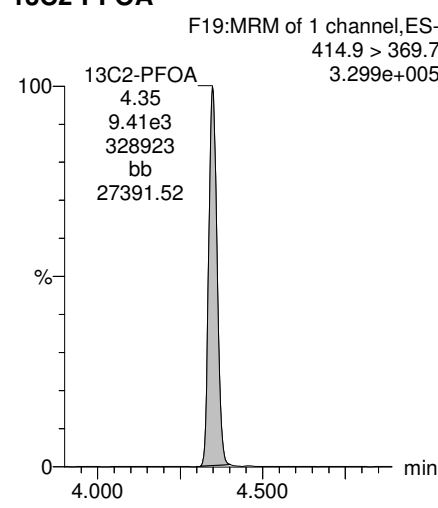
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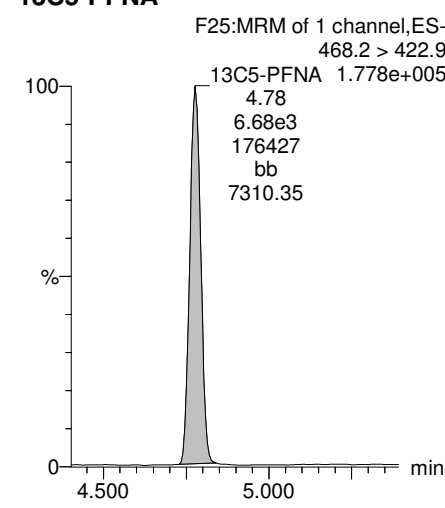
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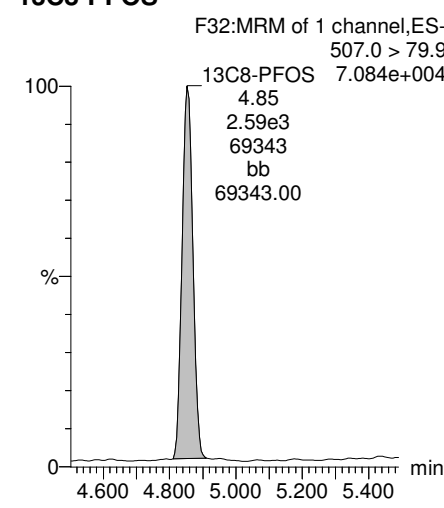
13C2-PFOA



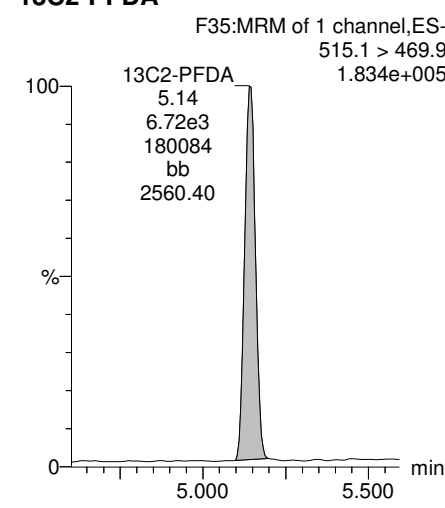
13C5-PFNA



13C8-PFOS



13C2-PFDA

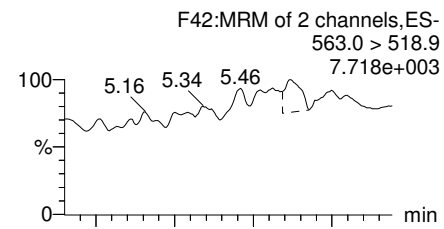


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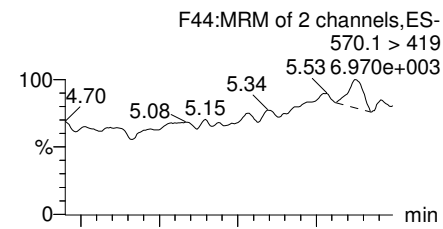
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Printed: Tuesday, December 26, 2017 16:26:39 Pacific Standard Time

Name: 171223M1_20, Date: 23-Dec-2017, Time: 16:29:28, ID: 1701882-03 WI-A06-EB01-120517 0.11513, Description: WI-A06-EB01-120517

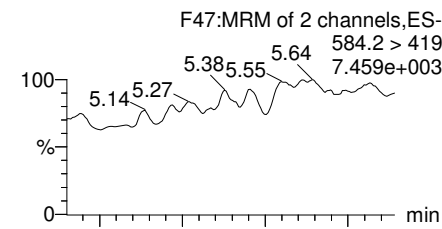
PFUdA



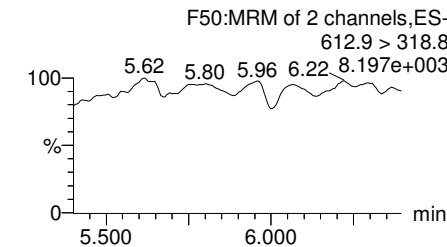
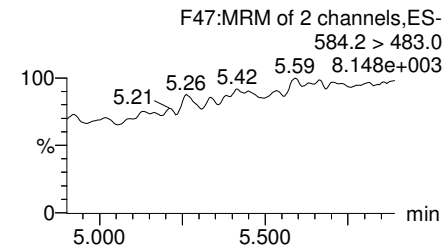
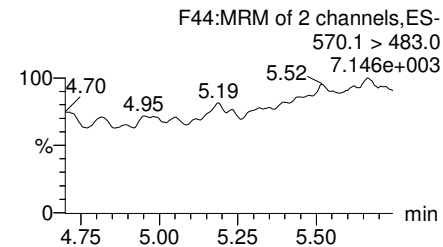
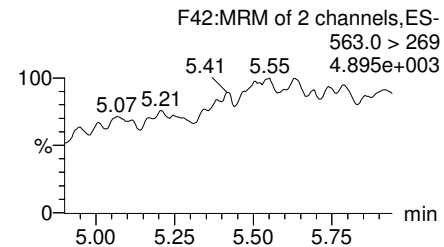
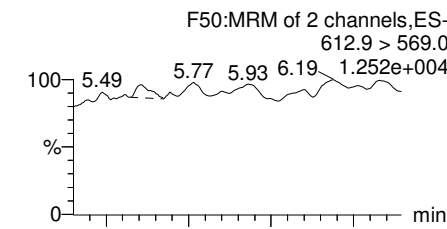
N-MeFOSAA



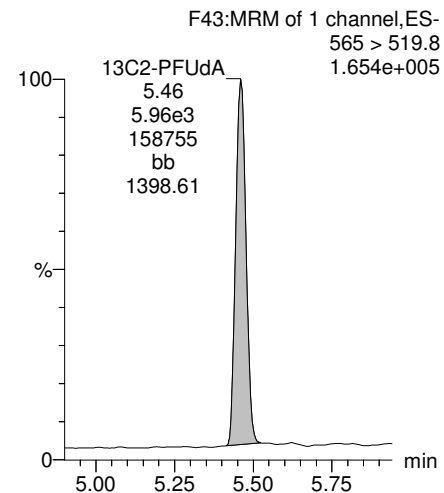
N-EtFOSAA



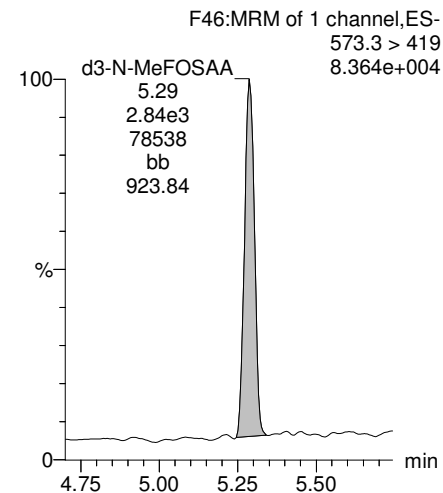
PFDoA



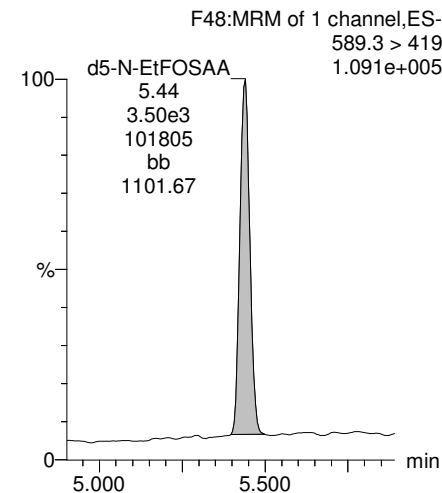
13C2-PFUdA



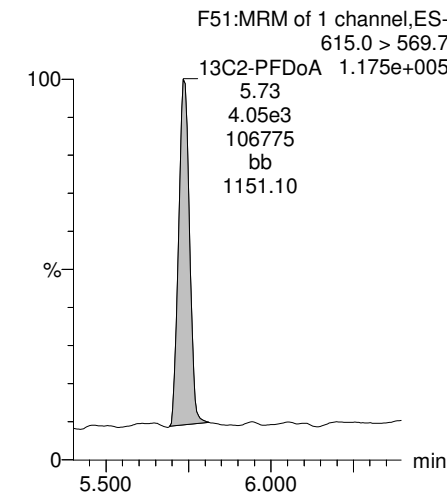
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA

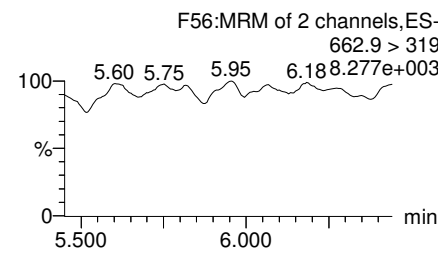
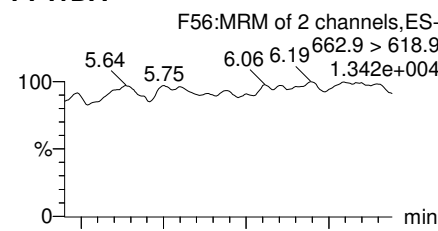


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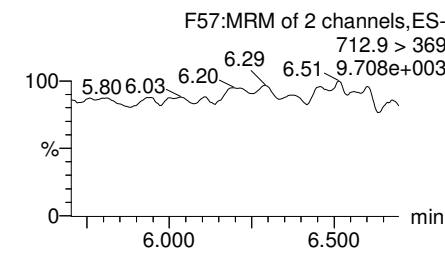
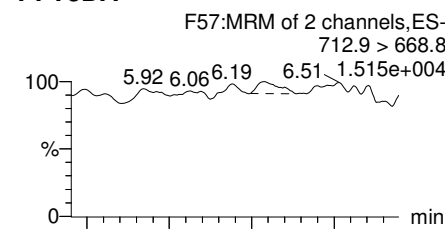
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Name: 171223M1_20, Date: 23-Dec-2017, Time: 16:29:28, ID: 1701882-03 WI-A06-EB01-120517 0.11513, Description: WI-A06-EB01-120517

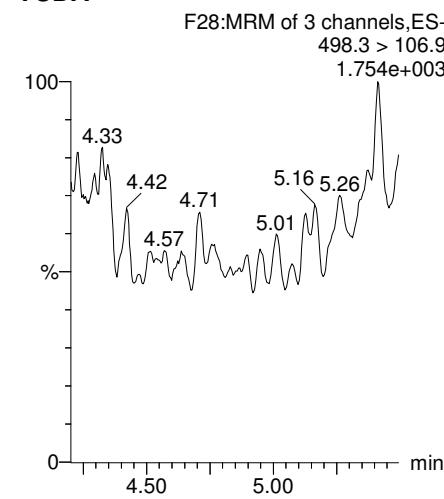
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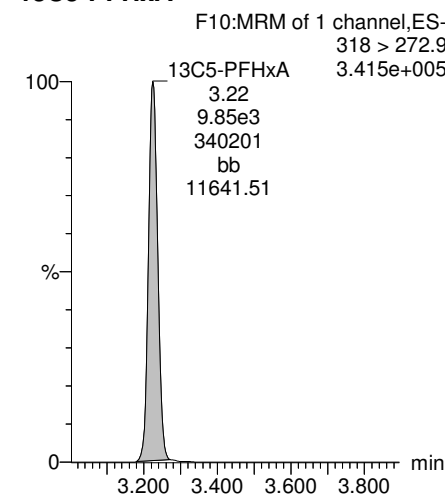
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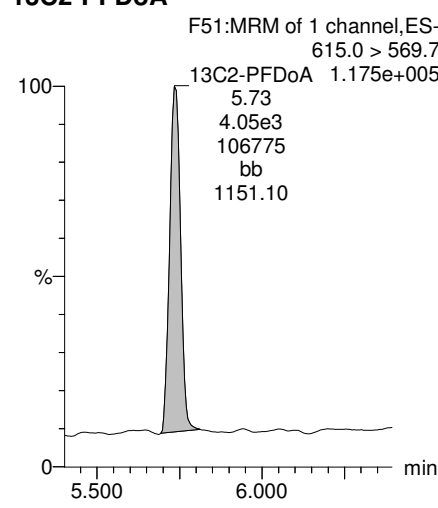
TCDA



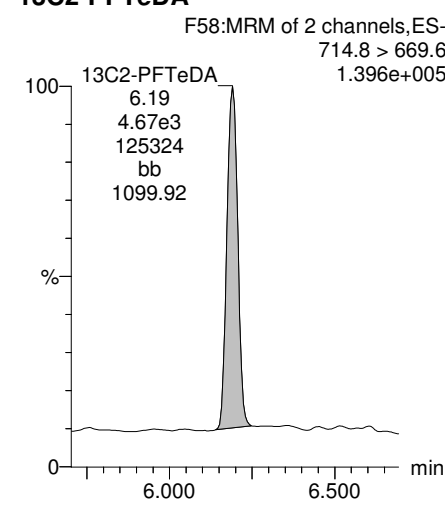
13C5-PFHxA



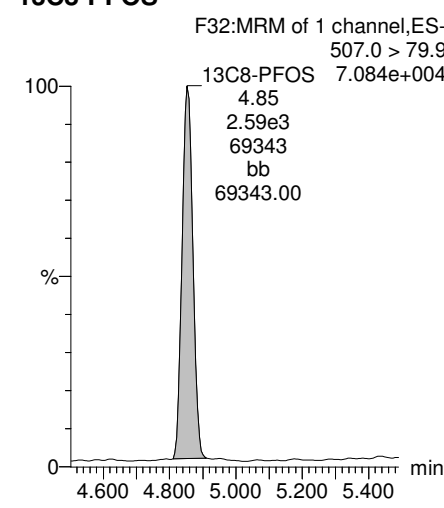
13C2-PFDoA



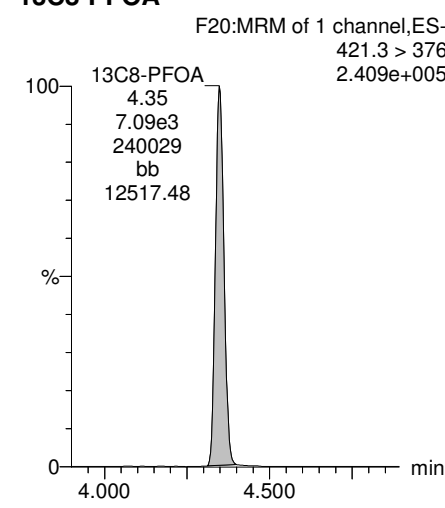
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

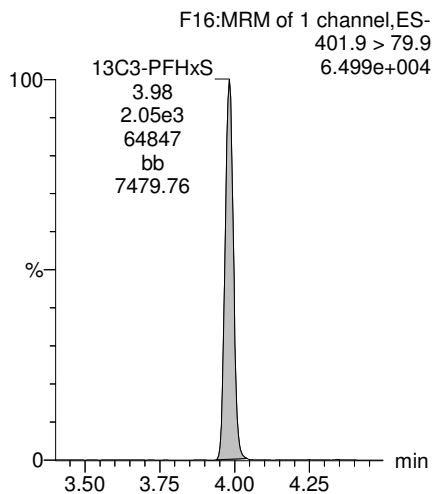


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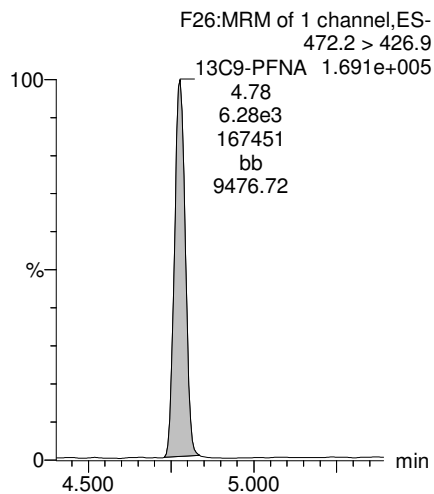
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Name: 171223M1_20, Date: 23-Dec-2017, Time: 16:29:28, ID: 1701882-03 WI-A06-EB01-120517 0.11513, Description: WI-A06-EB01-120517

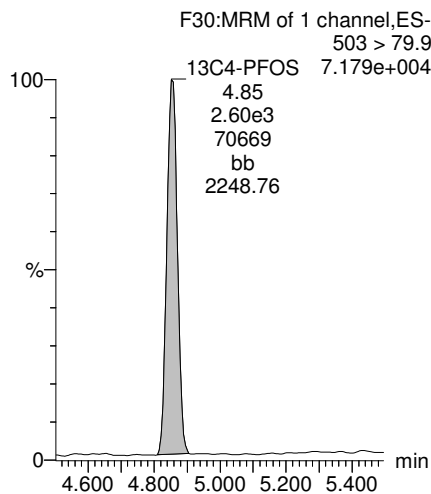
13C3-PFHxS



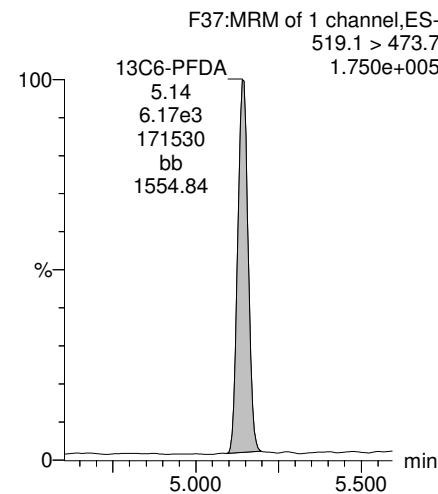
13C9-PFNA



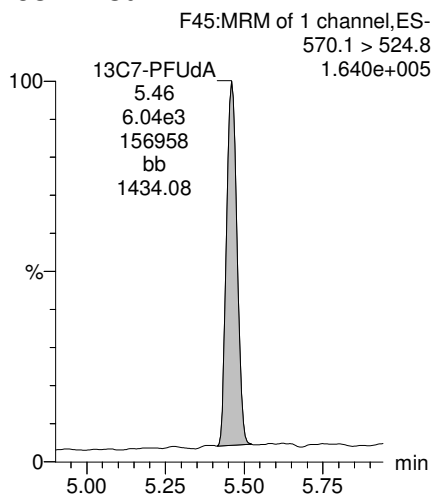
13C4-PFOS



13C6-PFDA



13C7-PFudA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-21.qld

Last Altered: Tuesday, December 26, 2017 16:28:09 Pacific Standard Time

Printed: Tuesday, December 26, 2017 16:28:38 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_21, Date: 23-Dec-2017, Time: 16:40:39, ID: 1701882-05 WI-A06-EB02-120517 0.11852, Description: WI-A06-EB02-120517

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		1.18e3	0.119		2.70				
2	4	PFHxA	313.2 > 268.9		3.06e3	0.119		3.20				
3	5	PFHpA	363.0 > 318.9		6.15e3	0.119		3.80				
4	6	L-PFHxS	398.9 > 79.6		8.87e2	0.119		3.95				
5	9	L-PFOA	413 > 368.7	1.58e2	8.65e3	0.119		4.32	4.35	0.228	0.336	
6	12	PFNA	463.0 > 418.8		6.80e3	0.119		4.75				
7	14	L-PFOS	499 > 79.9		2.46e3	0.119		4.83				
8	16	PFDA	513 > 468.8		7.42e3	0.119		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.44e3	0.119		5.26				
10	19	N-EtFOSAA	584.2 > 419		3.59e3	0.119		5.42				
11	20	PFUdA	563.0 > 518.9		6.77e3	0.119		5.43				
12	22	PFDoA	612.9 > 569.0		3.93e3	0.119		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-21.qld

Last Altered: Tuesday, December 26, 2017 16:28:09 Pacific Standard Time

Printed: Tuesday, December 26, 2017 16:28:50 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_21, Date: 23-Dec-2017, Time: 16:40:39, ID: 1701882-05 WI-A06-EB02-120517 0.11852, Description: WI-A06-EB02-120517

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.39e3	0.119		5.95				
2	25 PFTeDA	712.9 > 668.8		4.39e3	0.119		6.16				
3	33 13C3-PFBS	302. > 98.8	1.18e3	9.50e3	0.119	0.106	2.70	2.74	1.55	123.382	117.0
4	34 13C2-PFHxA	315 > 269.8	3.06e3	9.50e3	0.119	0.743	3.20	3.23	4.03	45.753	108.5
5	35 13C4-PFHpA	367.2 > 321.8	6.15e3	9.50e3	0.119	0.557	3.80	3.84	8.09	122.591	116.2
6	36 18O2-PFHxS	403.0 > 102.6	8.87e2	1.88e3	0.119	0.433	3.95	3.99	5.91	115.338	109.4
7	37 13C2-6:2 FTS	429.1 > 408.9	1.86e3	6.65e3	0.119	0.275	4.26	4.29	3.49	107.324	101.8
8	38 13C2-PFOA	414.9 > 369.7	8.65e3	6.65e3	0.119	1.141	4.32	4.35	16.3	120.209	114.0
9	39 13C5-PFNA	468.2 > 422.9	6.80e3	7.59e3	0.119	0.963	4.75	4.78	11.2	98.221	93.1
10	40 13C8-PFOSA	506.1 > 77.7	2.51e3	8.50e3	0.119	0.373	4.81	4.84	3.69	83.397	79.1
11	41 13C8-PFOS	507.0 > 79.9	2.46e3	2.56e3	0.119	1.075	4.83	4.86	12.0	94.103	89.2
12	42 13C2-PFDA	515.1 > 469.9	7.42e3	6.59e3	0.119	1.213	5.11	5.15	14.1	97.835	92.8
13	43 13C2-8:2 FTS	529.1 > 508.7	1.25e3	9.50e3	0.119	0.109	5.09	5.12	1.65	127.386	120.8
14	44 d3-N-MeFOSAA	573.3 > 419	2.44e3	8.50e3	0.119	0.405	5.26	5.29	3.58	74.601	70.7
15	45 d5-N-EtFOSAA	589.3 > 419	3.59e3	8.50e3	0.119	0.490	5.42	5.44	5.27	90.750	86.0
16	46 13C2-PFUdA	565 > 519.8	6.77e3	8.50e3	0.119	1.154	5.43	5.46	9.95	72.741	69.0
17	47 13C2-PFDoA	615.0 > 569.7	3.93e3	8.50e3	0.119	0.623	5.70	5.73	5.78	78.370	74.3
18	49 13C2-PFTeDA	714.8 > 669.6	4.39e3	8.50e3	0.119	0.706	6.16	6.19	6.45	77.145	73.1
19	55 13C5-PFHxA	318 > 272.9	9.50e3	9.50e3	0.119	1.000	3.20	3.22	12.5	105.467	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.88e3	1.88e3	0.119	1.000	3.95	3.99	12.5	105.467	100.0
21	57 13C8-PFOA	421.3 > 376	6.65e3	6.65e3	0.119	1.000	4.32	4.35	12.5	105.467	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.59e3	7.59e3	0.119	1.000	4.75	4.78	12.5	105.467	100.0
23	59 13C4-PFOS	503 > 79.9	2.56e3	2.56e3	0.119	1.000	4.83	4.86	12.5	105.467	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.59e3	6.59e3	0.119	1.000	5.11	5.14	12.5	105.467	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.50e3	8.50e3	0.119	1.000	5.43	5.46	12.5	105.467	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	8.87e2	0.119		4.00		0.000		
27	63 Total PFOA	413 > 368.7	1.58e2	8.65e3	0.119		4.30		0.228	0.336	
28	64 Total PFOS	499 > 79.9	0.00e0	2.46e3	0.119		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.44e3	0.119		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.59e3	0.119		5.40		0.000		

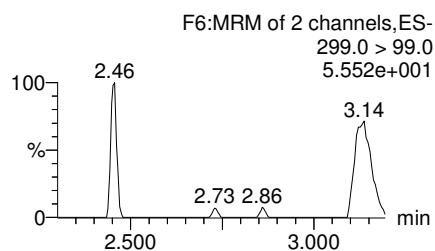
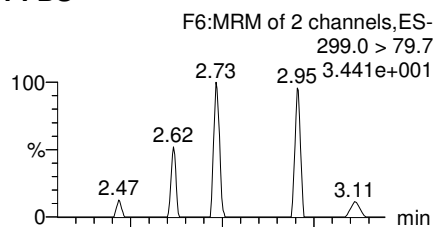
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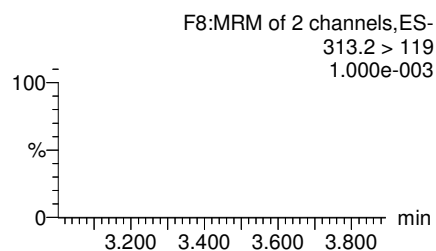
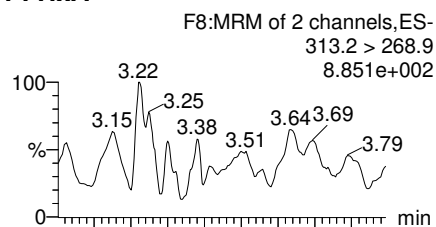
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Name: 171223M1_21, Date: 23-Dec-2017, Time: 16:40:39, ID: 1701882-05 WI-A06-EB02-120517 0.11852, Description: WI-A06-EB02-120517

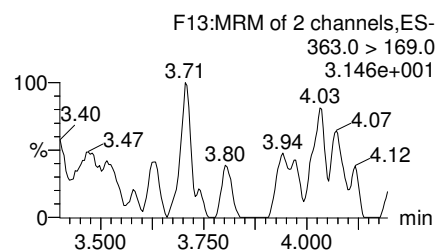
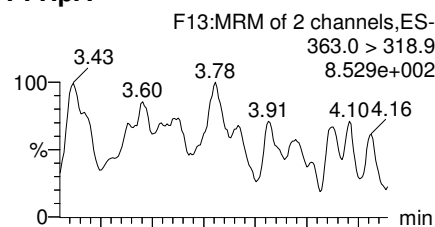
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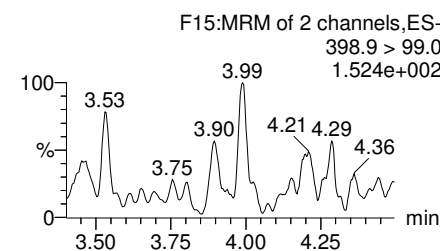
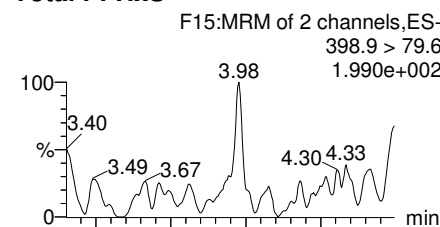
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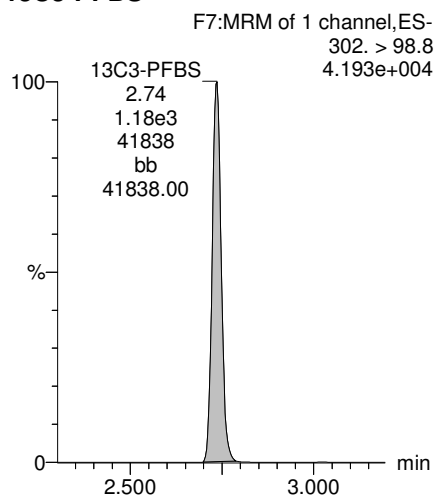
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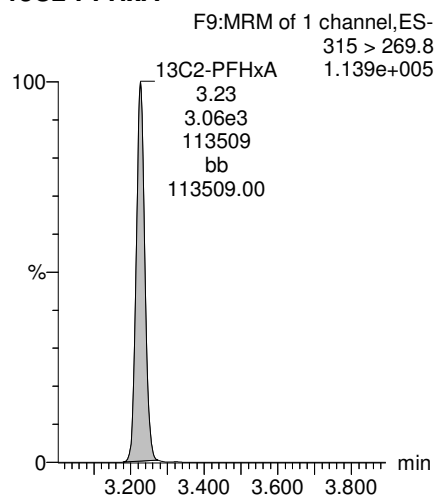
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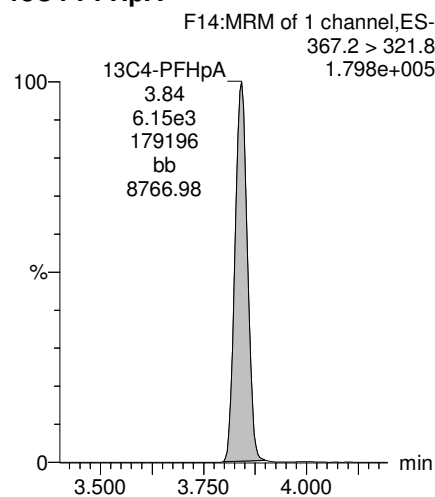
13C3-PFBS



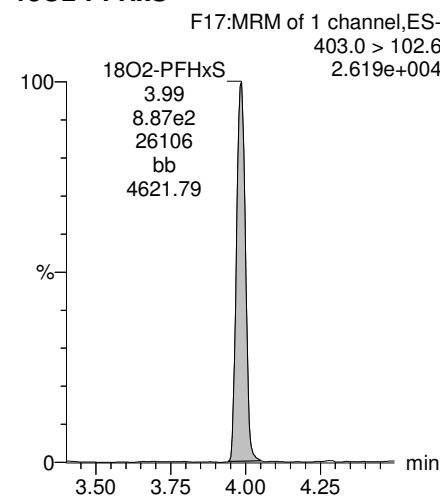
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

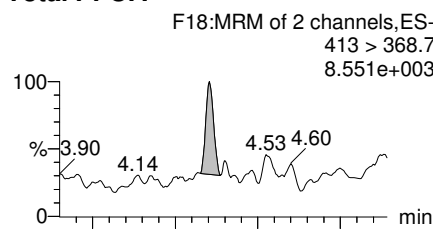


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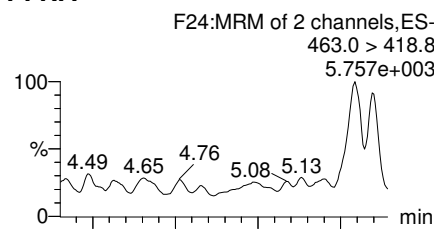
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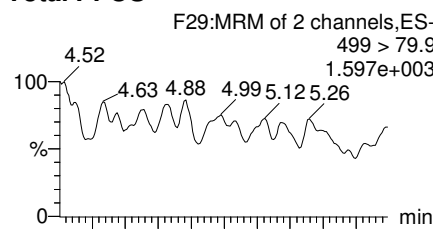
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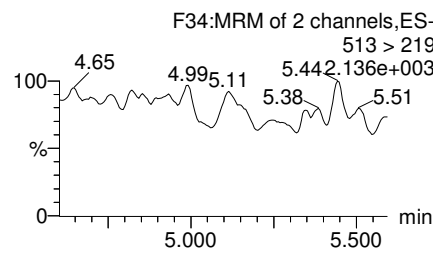
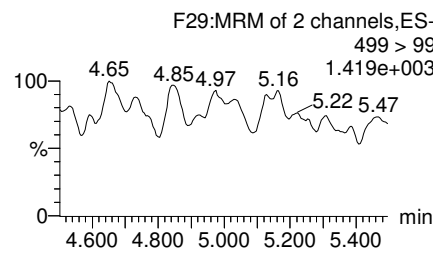
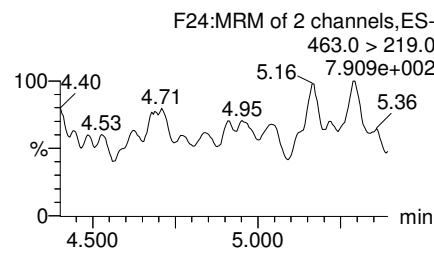
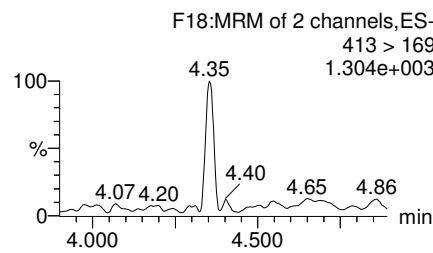
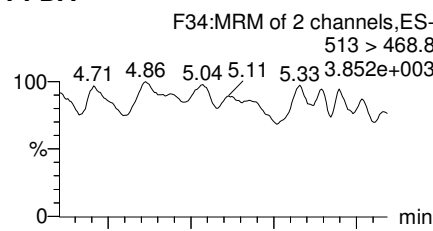
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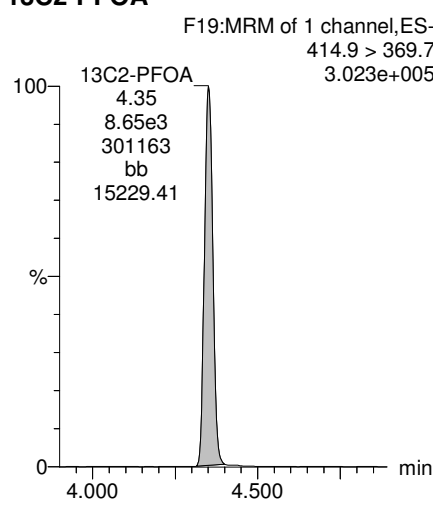
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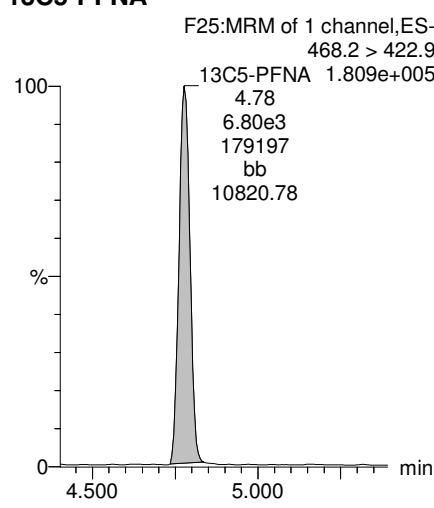
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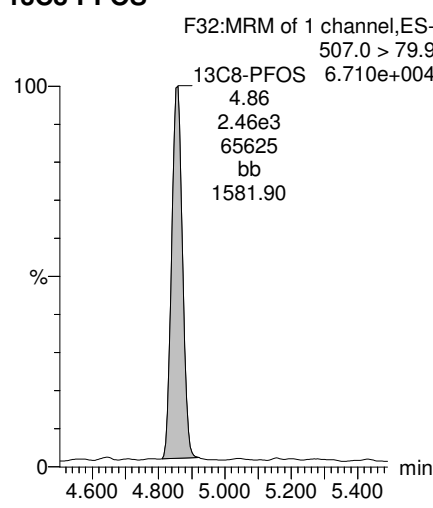
13C2-PFOA



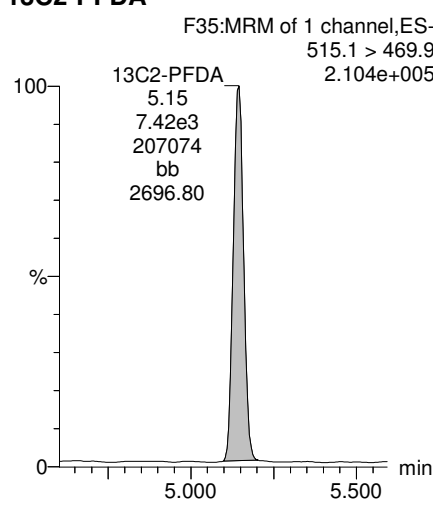
13C5-PFNA



13C8-PFOS



13C2-PFDA

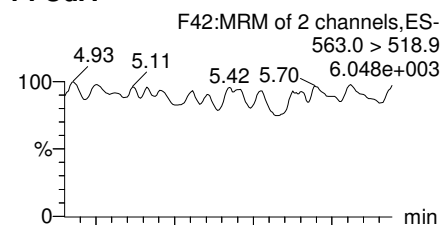


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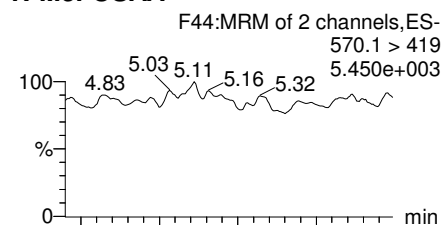
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Printed: Tuesday, December 26, 2017 16:28:50 Pacific Standard Time

Name: 171223M1_21, Date: 23-Dec-2017, Time: 16:40:39, ID: 1701882-05 WI-A06-EB02-120517 0.11852, Description: WI-A06-EB02-120517

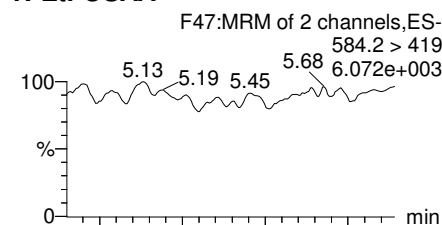
PFUdA



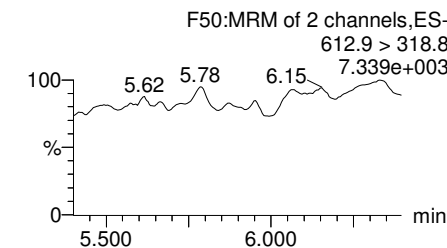
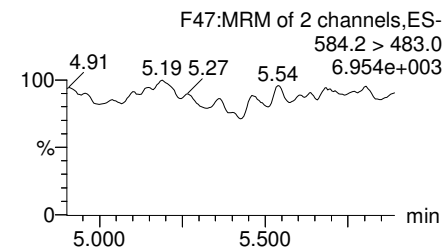
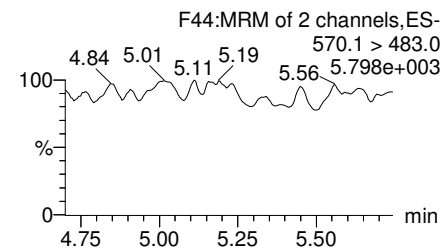
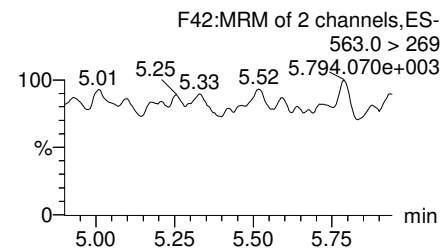
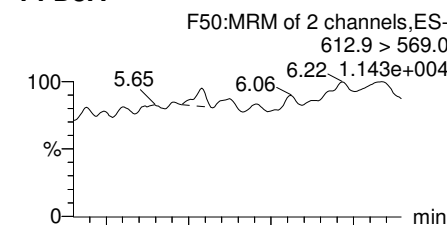
N-MeFOSAA



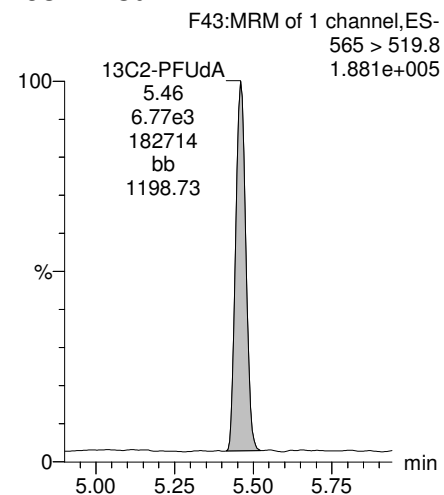
N-EtFOSAA



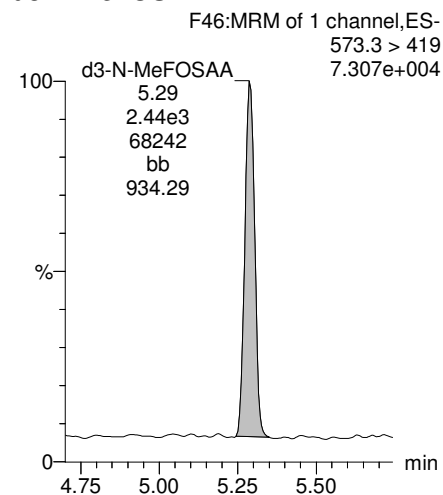
PFDoA



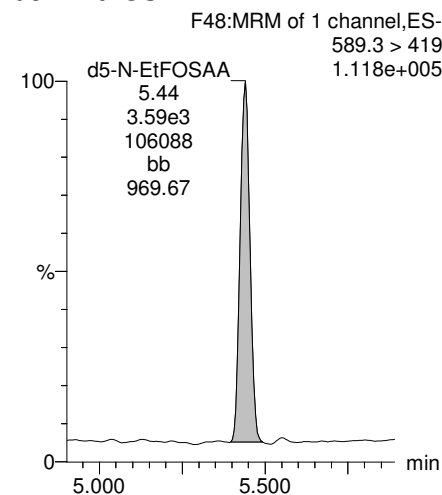
13C2-PFUdA



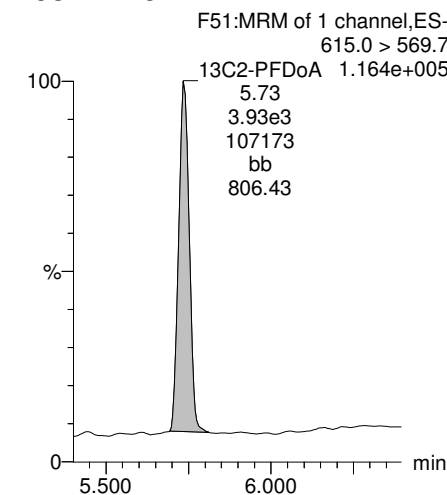
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA

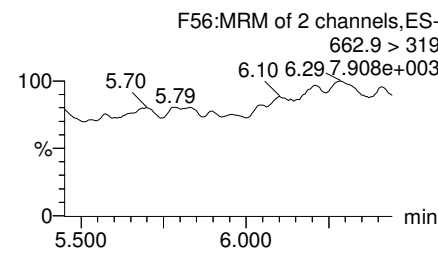
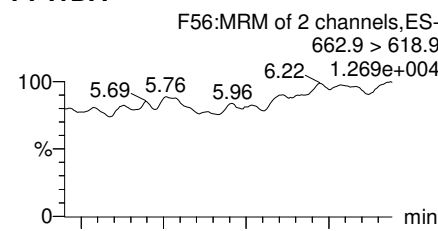


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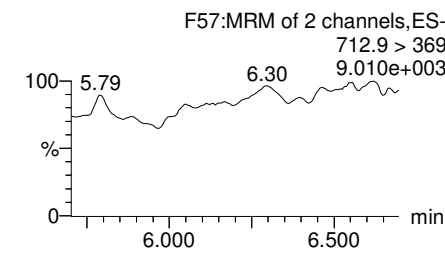
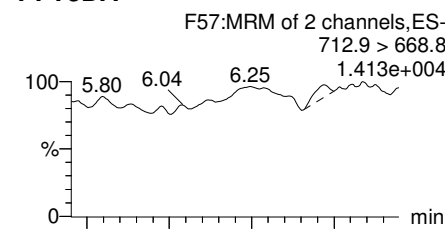
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Name: 171223M1_21, Date: 23-Dec-2017, Time: 16:40:39, ID: 1701882-05 WI-A06-EB02-120517 0.11852, Description: WI-A06-EB02-120517

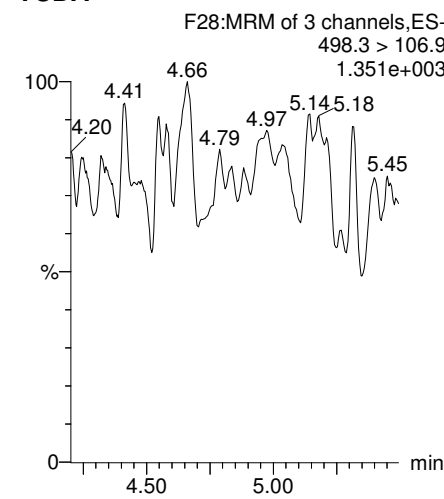
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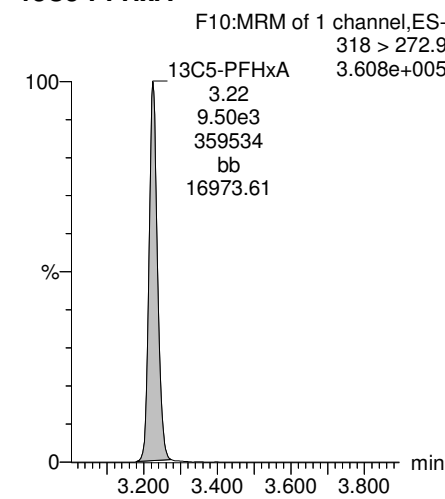
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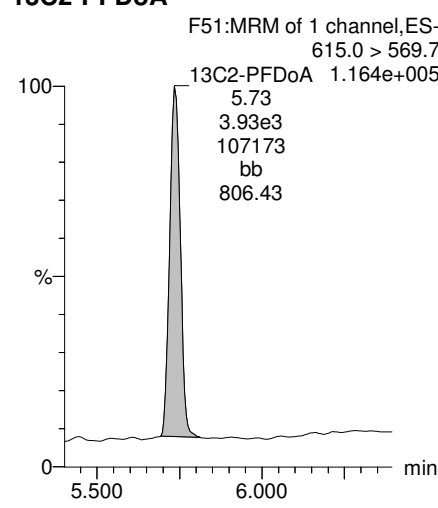
TCDA



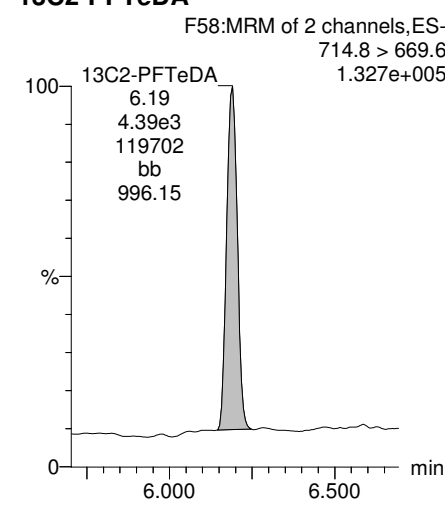
13C5-PFHxA



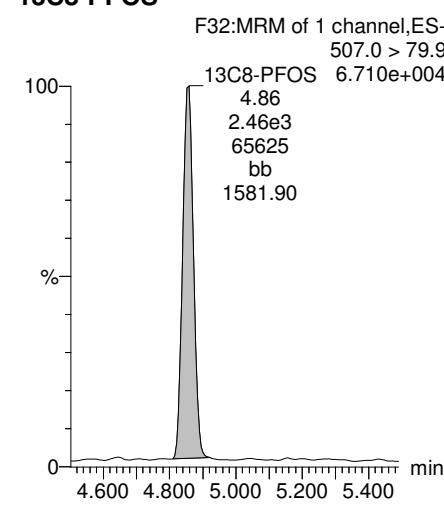
13C2-PFDoA



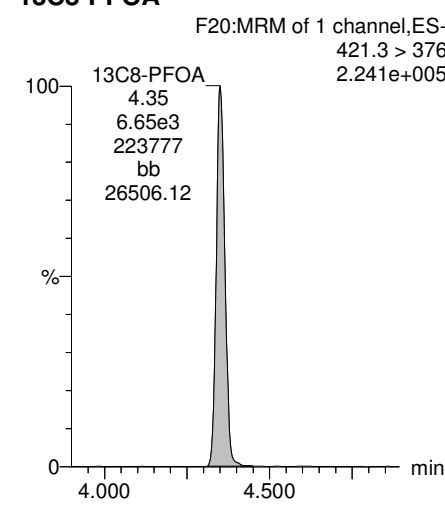
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

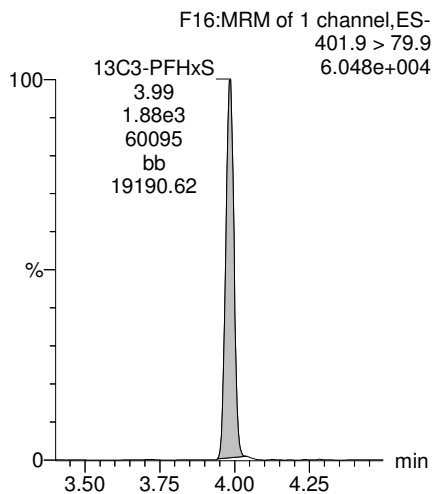


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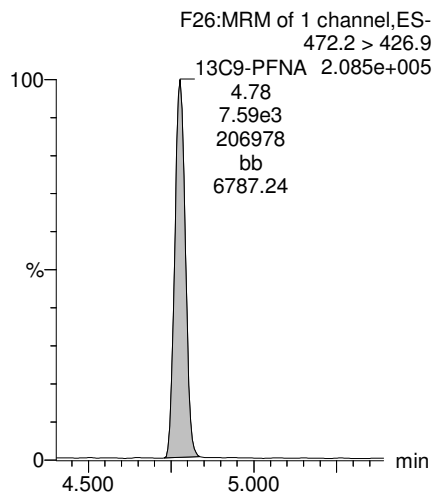
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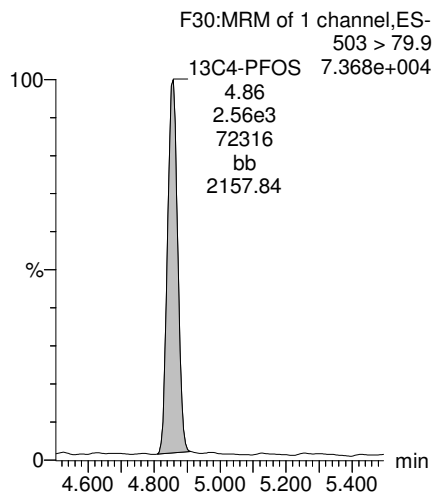
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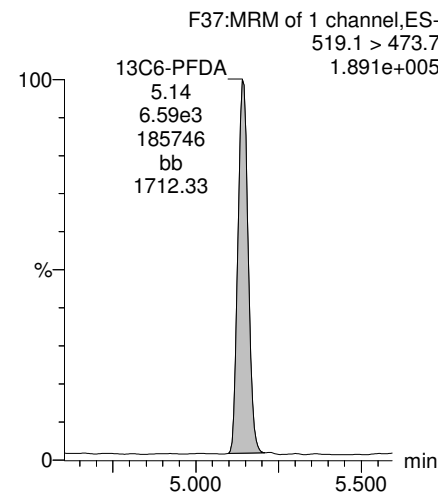
13C9-PFNA



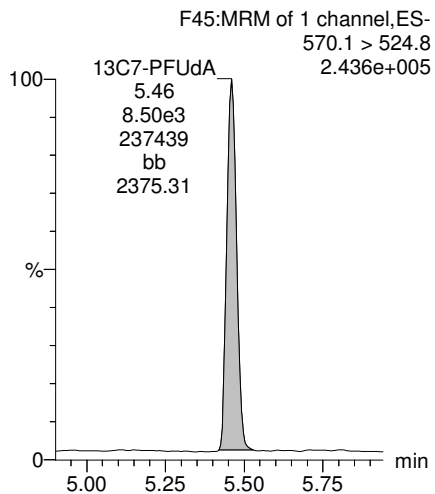
13C4-PFOS



13C6-PFDA



13C7-PFudA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-22.qld

Last Altered: Wednesday, December 27, 2017 08:05:34 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:06:44 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_22, Date: 23-Dec-2017, Time: 16:51:50, ID: 1701882-07 WI-A06-EFF01-1217 0.11544, Description: WI-A06-EFF01-1217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.07e2	1.01e3	0.115		2.70	2.73	2.57	10.543	
2	4	PFHxA	313.2 > 268.9	3.94e3	2.84e3	0.115		3.20	3.22	6.93	40.660	
3	5	PFHpA	363.0 > 318.9	8.49e2	5.34e3	0.115		3.80	3.84	1.99	11.846	
4	6	L-PFHxS	398.9 > 79.6	7.08e2	9.92e2	0.115		3.95	3.99	8.92	42.960	
5	9	L-PFOA	413 > 368.7	2.51e3	8.16e3	0.115		4.32	4.35	3.84	30.984	
6	12	PFNA	463.0 > 418.8		5.60e3	0.115		4.75				
7	14	L-PFOS	499 > 79.9		2.25e3	0.115		4.83				
8	16	PFDA	513 > 468.8		6.98e3	0.115		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.71e3	0.115		5.26				
10	19	N-EtFOSAA	584.2 > 419		3.33e3	0.115		5.42				
11	20	PFUdA	563.0 > 518.9		7.06e3	0.115		5.43				
12	22	PFDoA	612.9 > 569.0		4.72e3	0.115		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-22.qld

Last Altered: Wednesday, December 27, 2017 08:05:34 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:07:06 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_22, Date: 23-Dec-2017, Time: 16:51:50, ID: 1701882-07 WI-A06-EFF01-1217 0.11544, Description: WI-A06-EFF01-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.22e3	0.115		5.95				
2	25 PFTeDA	712.9 > 668.8		4.22e3	0.115		6.16				
3	33 13C3-PFBS	302. > 98.8	1.01e3	9.70e3	0.115	0.106	2.70	2.73	1.30	106.340	98.2
4	34 13C2-PFHxA	315 > 269.8	2.84e3	9.70e3	0.115	0.743	3.20	3.22	3.67	42.725	98.6
5	35 13C4-PFHpA	367.2 > 321.8	5.34e3	9.70e3	0.115	0.557	3.80	3.84	6.88	107.059	98.9
6	36 18O2-PFHxS	403.0 > 102.6	9.92e2	1.89e3	0.115	0.433	3.95	3.98	6.55	131.229	121.2
7	37 13C2-6:2 FTS	429.1 > 408.9	1.84e3	6.59e3	0.115	0.275	4.26	4.30	3.48	109.796	101.4
8	38 13C2-PFOA	414.9 > 369.7	8.16e3	6.59e3	0.115	1.141	4.32	4.35	15.5	117.461	108.5
9	39 13C5-PFNA	468.2 > 422.9	5.60e3	5.67e3	0.115	0.963	4.75	4.78	12.3	110.950	102.5
10	40 13C8-PFOSA	506.1 > 77.7	2.32e3	6.60e3	0.115	0.373	4.81	4.84	4.39	101.904	94.1
11	41 13C8-PFOS	507.0 > 79.9	2.25e3	2.00e3	0.115	1.075	4.83	4.86	14.1	113.225	104.6
12	42 13C2-PFDA	515.1 > 469.9	6.98e3	6.23e3	0.115	1.213	5.11	5.15	14.0	99.874	92.2
13	43 13C2-8:2 FTS	529.1 > 508.7	1.06e3	9.70e3	0.115	0.109	5.09	5.11	1.37	108.726	100.4
14	44 d3-N-MeFOSAA	573.3 > 419	2.71e3	6.60e3	0.115	0.405	5.26	5.29	5.13	109.654	101.3
15	45 d5-N-EtFOSAA	589.3 > 419	3.33e3	6.60e3	0.115	0.490	5.42	5.44	6.31	111.516	103.0
16	46 13C2-PFUdA	565 > 519.8	7.06e3	6.60e3	0.115	1.154	5.43	5.46	13.4	100.210	92.5
17	47 13C2-PFDoA	615.0 > 569.7	4.72e3	6.60e3	0.115	0.623	5.70	5.73	8.93	124.266	114.8
18	49 13C2-PFTeDA	714.8 > 669.6	4.22e3	6.60e3	0.115	0.706	6.16	6.19	7.98	97.935	90.4
19	55 13C5-PFHxA	318 > 272.9	9.70e3	9.70e3	0.115	1.000	3.20	3.22	12.5	108.281	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.89e3	1.89e3	0.115	1.000	3.95	3.98	12.5	108.281	100.0
21	57 13C8-PFOA	421.3 > 376	6.59e3	6.59e3	0.115	1.000	4.32	4.35	12.5	108.281	100.0
22	58 13C9-PFNA	472.2 > 426.9	5.67e3	5.67e3	0.115	1.000	4.75	4.78	12.5	108.281	100.0
23	59 13C4-PFOS	503 > 79.9	2.00e3	2.00e3	0.115	1.000	4.83	4.85	12.5	108.281	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.23e3	6.23e3	0.115	1.000	5.11	5.15	12.5	108.281	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.60e3	6.60e3	0.115	1.000	5.43	5.46	12.5	108.281	100.0
26	62 Total PFHxS	398.9 > 79.6	7.08e2	9.92e2	0.115		4.00		8.92	42.960	
27	63 Total PFOA	413 > 368.7	3.00e3	8.16e3	0.115		4.30		4.60	35.802	
28	64 Total PFOS	499 > 79.9	0.00e0	2.25e3	0.115		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.71e3	0.115		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.33e3	0.115		5.40		0.000		

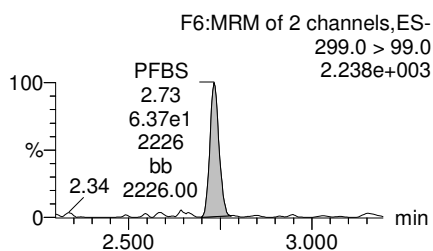
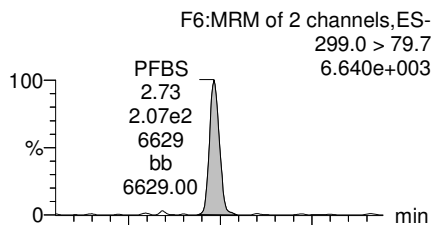
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Printed: Wednesday, December 27, 2017 08:07:06 Pacific Standard Time

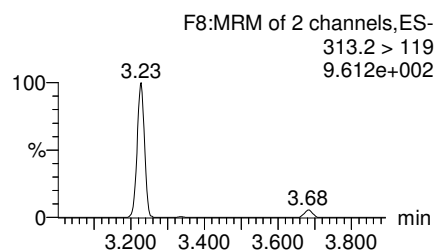
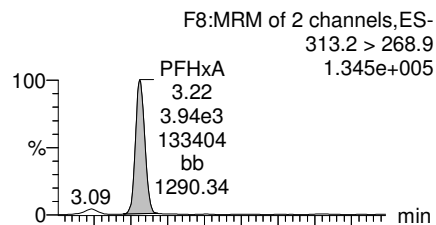
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Name: 171223M1_22, Date: 23-Dec-2017, Time: 16:51:50, ID: 1701882-07 WI-A06-EFF01-1217 0.11544, Description: WI-A06-EFF01-1217

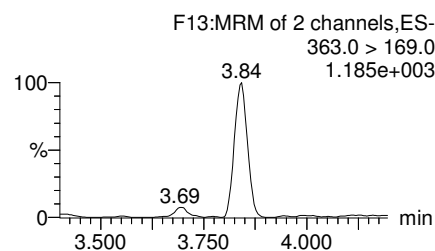
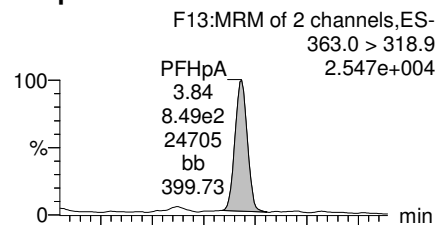
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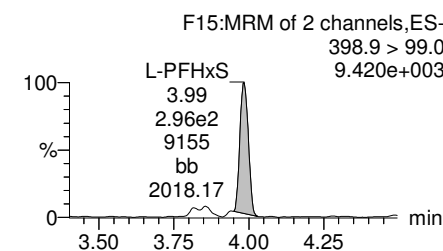
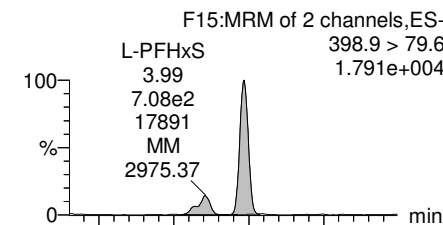
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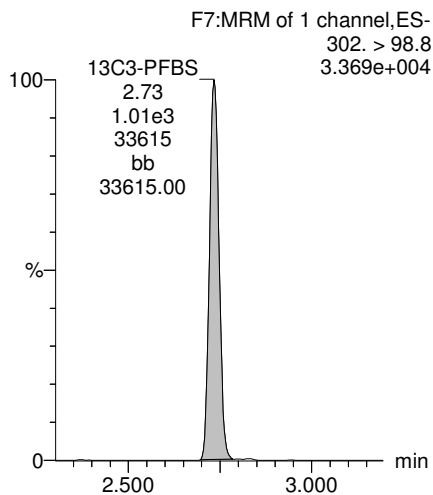
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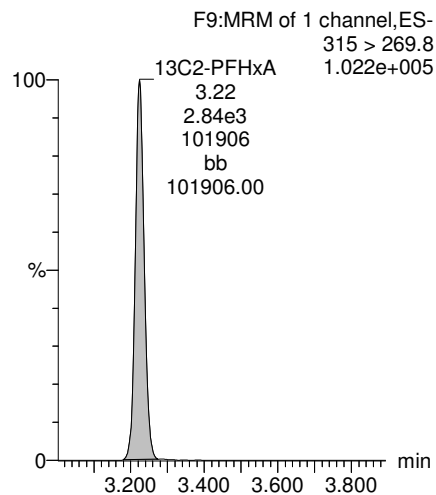
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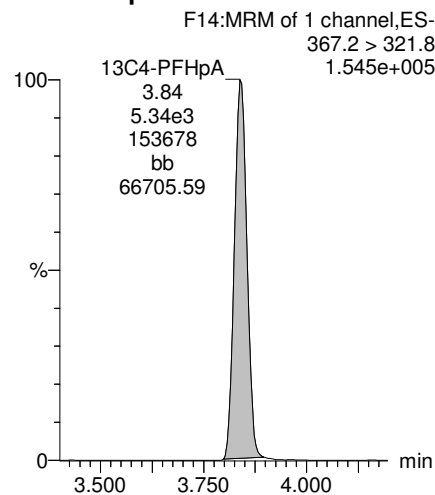
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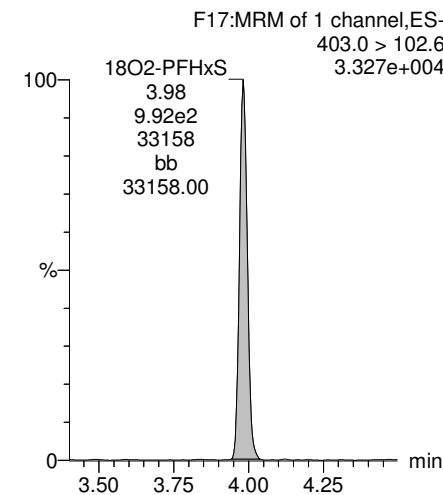
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

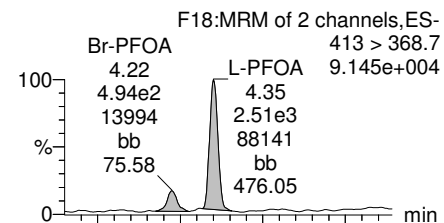


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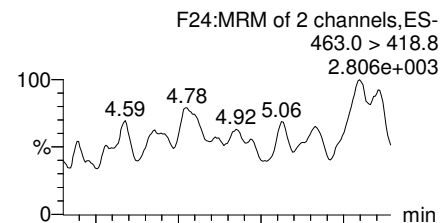
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Printed: Wednesday, December 27, 2017 08:07:06 Pacific Standard Time

Name: 171223M1_22, Date: 23-Dec-2017, Time: 16:51:50, ID: 1701882-07 WI-A06-EFF01-1217 0.11544, Description: WI-A06-EFF01-1217

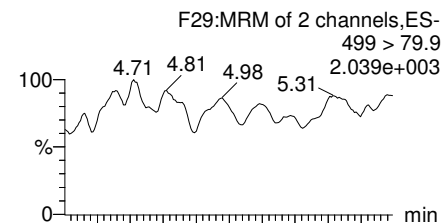
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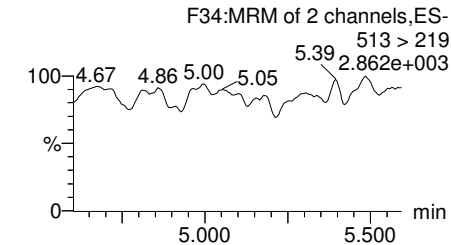
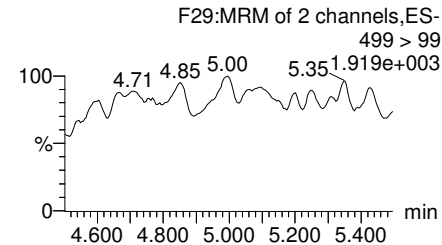
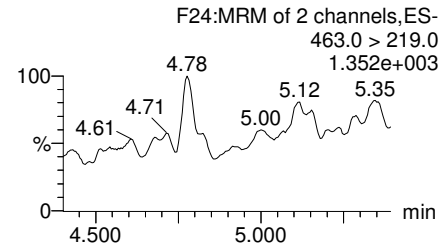
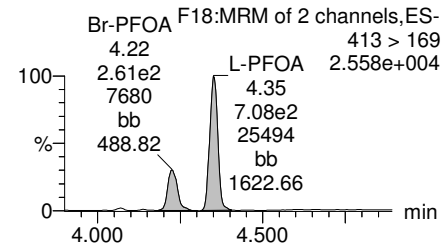
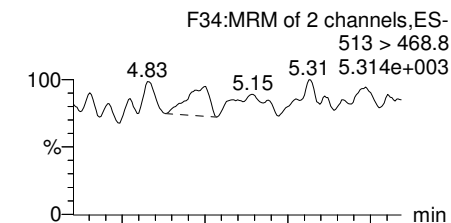
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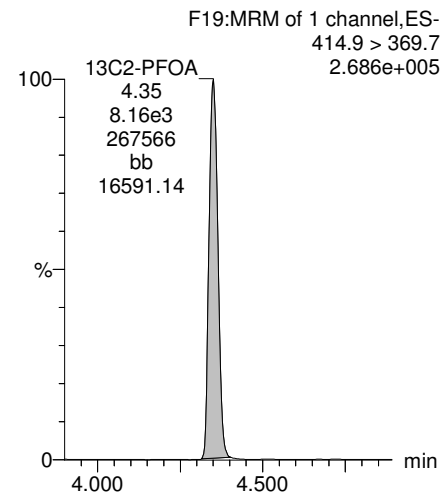
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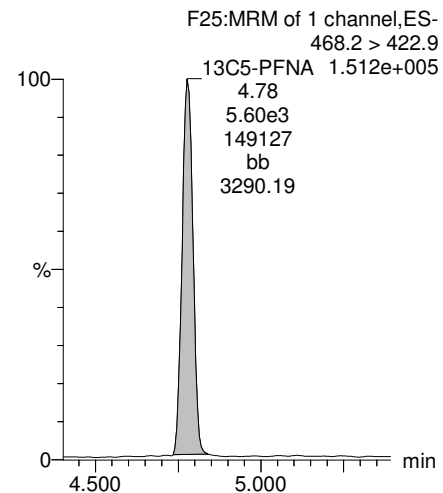
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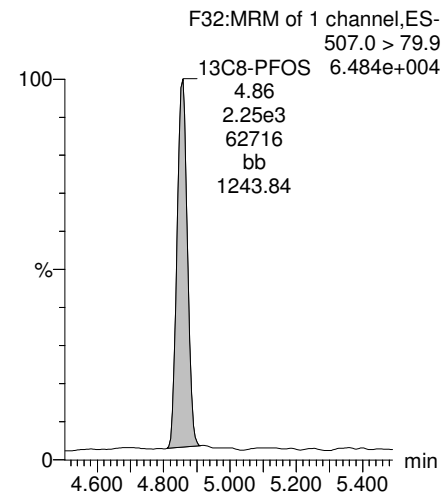
13C2-PFOA



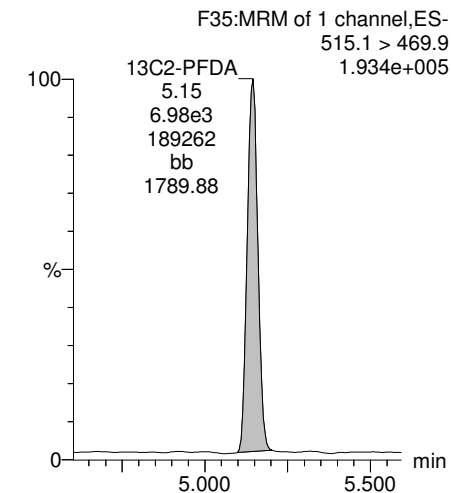
13C5-PFNA



13C8-PFOS



13C2-PFDA

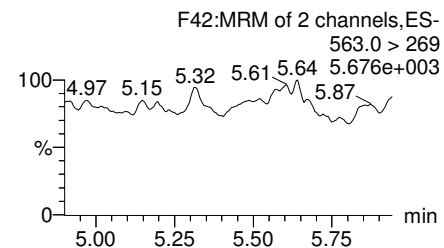
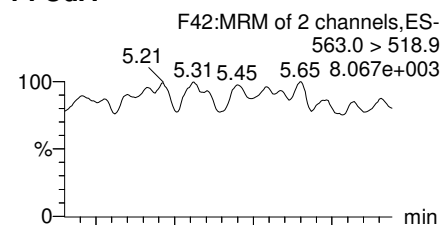


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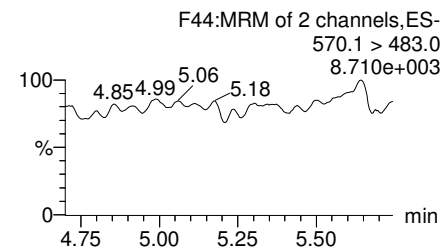
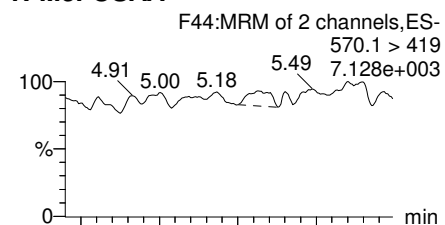
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Printed: Wednesday, December 27, 2017 08:07:06 Pacific Standard Time

Name: 171223M1_22, Date: 23-Dec-2017, Time: 16:51:50, ID: 1701882-07 WI-A06-EFF01-1217 0.11544, Description: WI-A06-EFF01-1217

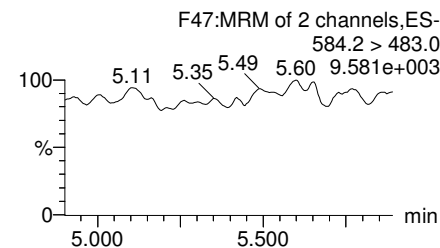
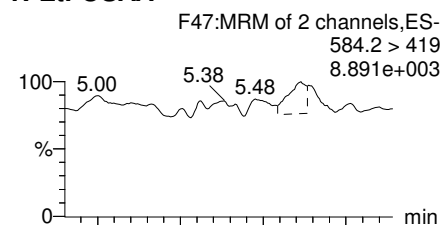
PFUdA



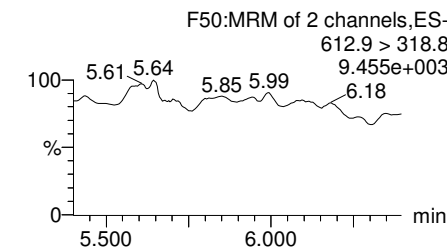
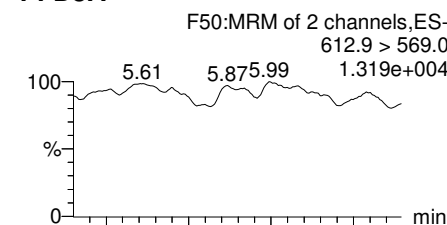
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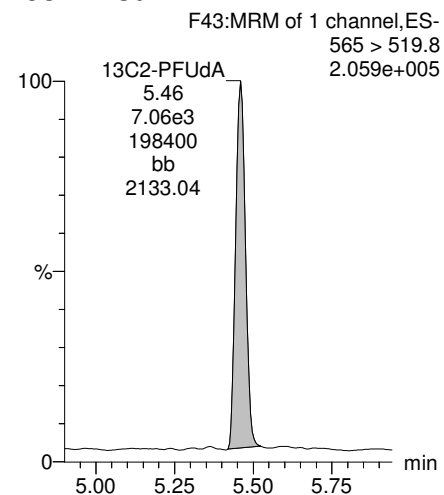
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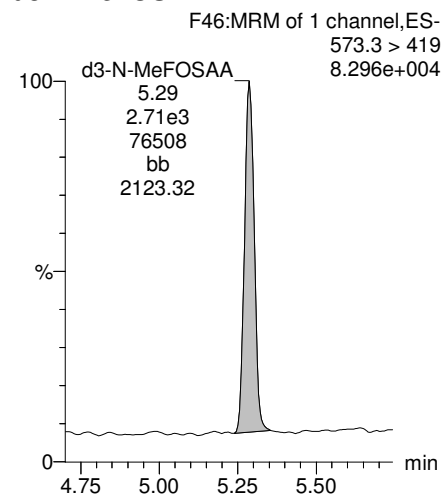
PFDoA



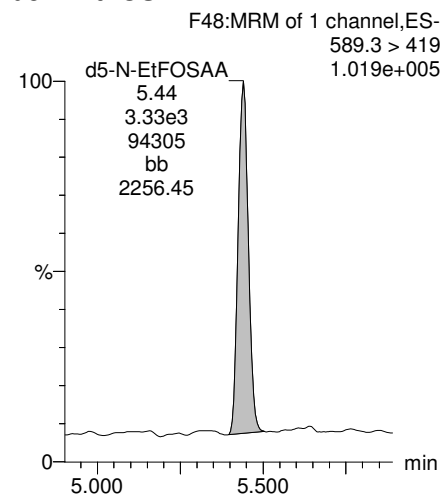
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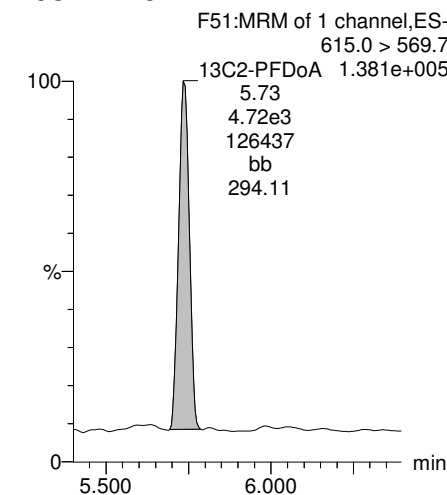
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d5-N-EtFOSAA



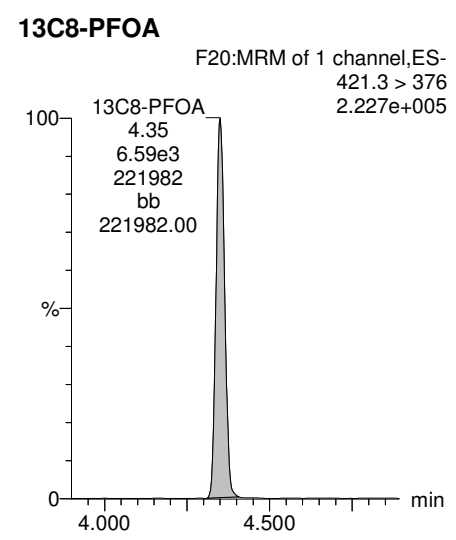
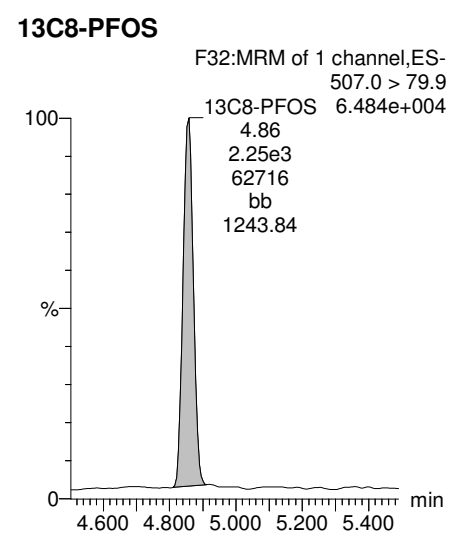
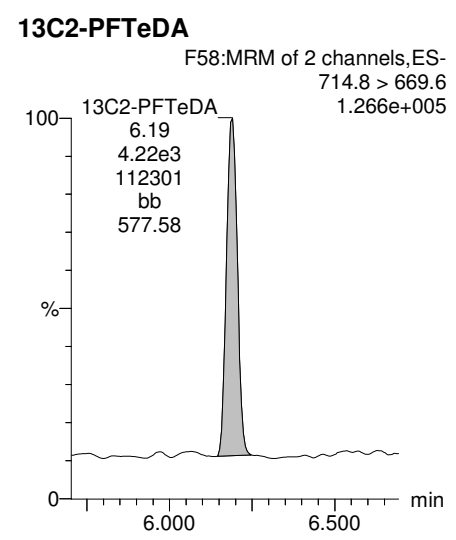
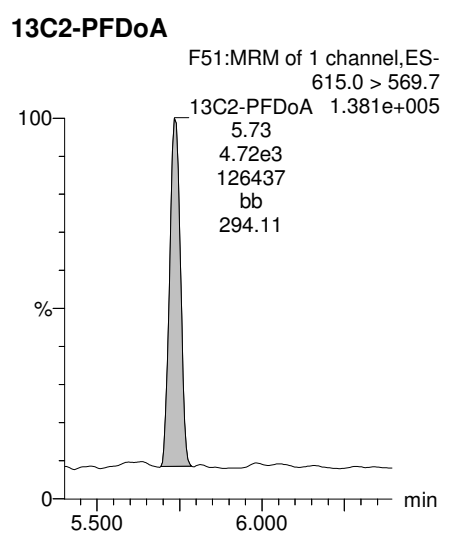
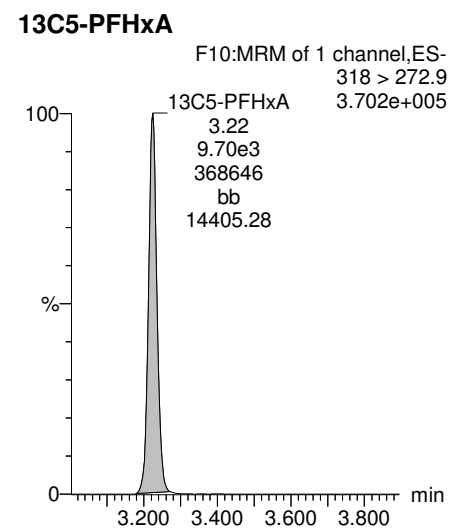
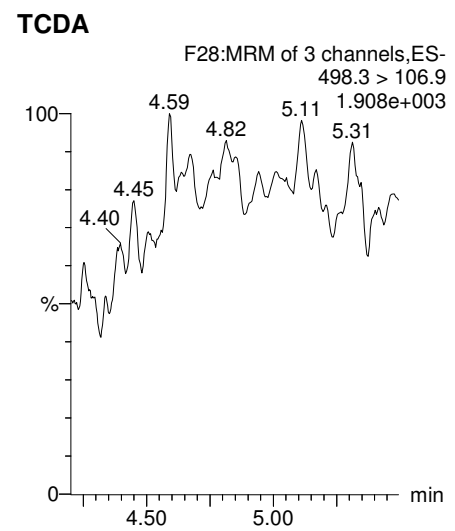
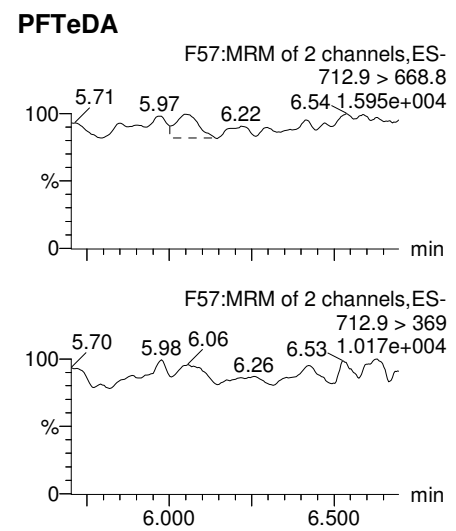
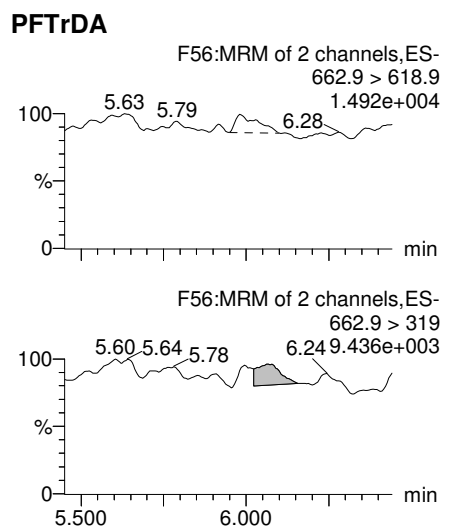
13C2-PFDoA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-22.qld

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Printed: Wednesday, December 27, 2017 08:07:06 Pacific Standard Time

Name: 171223M1_22, Date: 23-Dec-2017, Time: 16:51:50, ID: 1701882-07 WI-A06-EFF01-1217 0.11544, Description: WI-A06-EFF01-1217

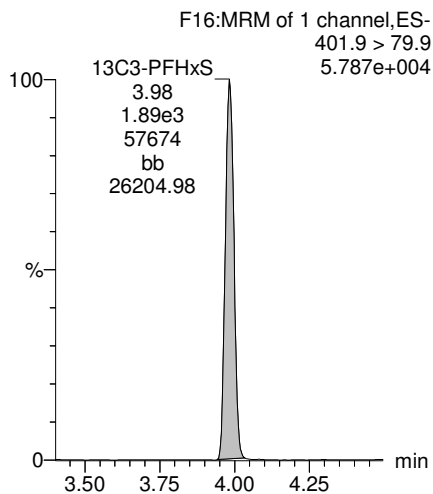


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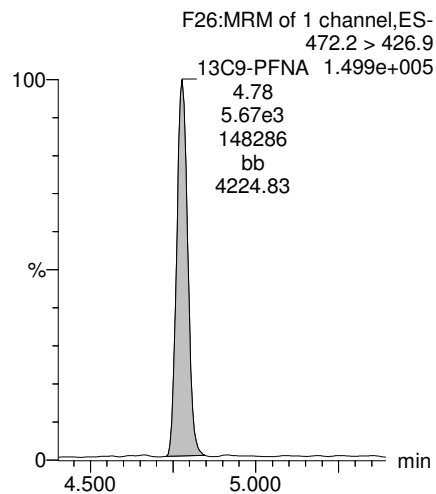
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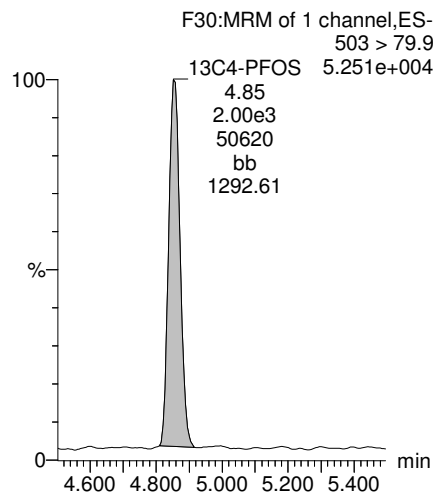
13C3-PFHxS



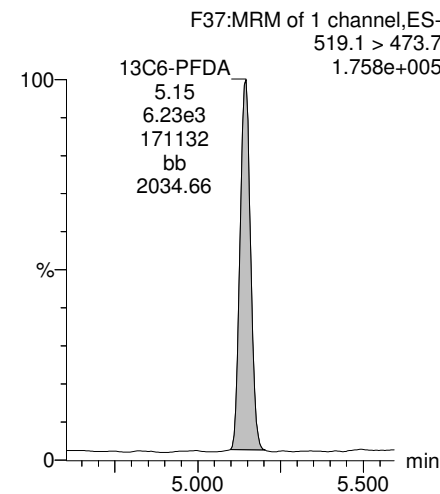
13C9-PFNA



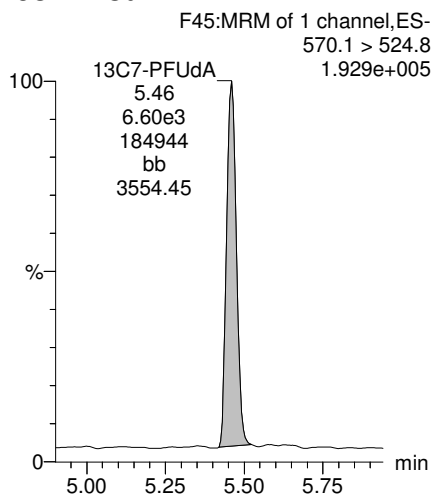
13C4-PFOS



13C6-PFDA



13C7-PFudA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-23.qld

Last Altered: Wednesday, December 27, 2017 08:13:13 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:13:37 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_23, Date: 23-Dec-2017, Time: 17:03:00, ID: 1701882-09 WI-A06-EFF01P-1217 0.11592, Description: WI-A06-EFF01P-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	1.94e2	9.97e2	0.116		2.70	2.73	2.44	9.997	
2	4 PFHxA	313.2 > 268.9	4.01e3	3.14e3	0.116		3.20	3.22	6.40	37.379	
3	5 PFHpA	363.0 > 318.9	8.02e2	5.29e3	0.116		3.80	3.84	1.89	11.280	
4	6 L-PFHxS	398.9 > 79.6	7.00e2	8.57e2	0.116		3.95	3.98	10.2	49.200	
5	9 L-PFOA	413 > 368.7	2.43e3	9.50e3	0.116		4.32	4.35	3.20	25.406	
6	12 PFNA	463.0 > 418.8		6.91e3	0.116		4.75				
7	14 L-PFOS	499 > 79.9		2.16e3	0.116		4.83				
8	16 PFDA	513 > 468.8		6.76e3	0.116		5.11				
9	18 N-MeFOSAA	570.1 > 419		2.75e3	0.116		5.26				
10	19 N-EtFOSAA	584.2 > 419		3.15e3	0.116		5.42				
11	20 PFUdA	563.0 > 518.9		8.39e3	0.116		5.43				
12	22 PFDoA	612.9 > 569.0		5.15e3	0.116		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-23.qld

Last Altered: Wednesday, December 27, 2017 08:13:13 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:13:52 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_23, Date: 23-Dec-2017, Time: 17:03:00, ID: 1701882-09 WI-A06-EFF01P-1217 0.11592, Description: WI-A06-EFF01P-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		5.38e3	0.116		5.95				
2	25 PFTeDA	712.9 > 668.8		5.38e3	0.116		6.16				
3	33 13C3-PFBS	302. > 98.8	9.97e2	1.02e4	0.116	0.106	2.70	2.73	1.22	99.595	92.4
4	34 13C2-PFHxA	315 > 269.8	3.14e3	1.02e4	0.116	0.743	3.20	3.22	3.85	44.687	103.6
5	35 13C4-PFHpA	367.2 > 321.8	5.29e3	1.02e4	0.116	0.557	3.80	3.84	6.50	100.687	93.4
6	36 18O2-PFHxS	403.0 > 102.6	8.57e2	1.94e3	0.116	0.433	3.95	3.98	5.51	109.908	101.9
7	37 13C2-6:2 FTS	429.1 > 408.9	2.00e3	6.40e3	0.116	0.275	4.26	4.30	3.90	122.595	113.7
8	38 13C2-PFOA	414.9 > 369.7	9.50e3	6.40e3	0.116	1.141	4.32	4.35	18.6	140.277	130.1
9	39 13C5-PFNA	468.2 > 422.9	6.91e3	8.12e3	0.116	0.963	4.75	4.78	10.6	95.335	88.4
10	40 13C8-PFOA	506.1 > 77.7	2.46e3	6.59e3	0.116	0.373	4.81	4.83	4.66	107.750	99.9
11	41 13C8-PFOS	507.0 > 79.9	2.16e3	2.13e3	0.116	1.075	4.83	4.85	12.7	101.626	94.2
12	42 13C2-PFDA	515.1 > 469.9	6.76e3	7.22e3	0.116	1.213	5.11	5.15	11.7	83.157	77.1
13	43 13C2-8:2 FTS	529.1 > 508.7	9.04e2	1.02e4	0.116	0.109	5.09	5.11	1.11	87.622	81.3
14	44 d3-N-MeFOSAA	573.3 > 419	2.75e3	6.59e3	0.116	0.405	5.26	5.29	5.21	110.808	102.8
15	45 d5-N-EtFOSAA	589.3 > 419	3.15e3	6.59e3	0.116	0.490	5.42	5.44	5.97	105.048	97.4
16	46 13C2-PFUdA	565 > 519.8	8.39e3	6.59e3	0.116	1.154	5.43	5.46	15.9	118.971	110.3
17	47 13C2-PFDoA	615.0 > 569.7	5.15e3	6.59e3	0.116	0.623	5.70	5.73	9.77	135.392	125.6
18	49 13C2-PFTeDA	714.8 > 669.6	5.38e3	6.59e3	0.116	0.706	6.16	6.19	10.2	124.772	115.7
19	55 13C5-PFHxA	318 > 272.9	1.02e4	1.02e4	0.116	1.000	3.20	3.22	12.5	107.833	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.94e3	1.94e3	0.116	1.000	3.95	3.98	12.5	107.833	100.0
21	57 13C8-PFOA	421.3 > 376	6.40e3	6.40e3	0.116	1.000	4.32	4.35	12.5	107.833	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.12e3	8.12e3	0.116	1.000	4.75	4.78	12.5	107.833	100.0
23	59 13C4-PFOS	503 > 79.9	2.13e3	2.13e3	0.116	1.000	4.83	4.86	12.5	107.833	100.0
24	60 13C6-PFDA	519.1 > 473.7	7.22e3	7.22e3	0.116	1.000	5.11	5.14	12.5	107.833	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.59e3	6.59e3	0.116	1.000	5.43	5.46	12.5	107.833	100.0
26	62 Total PFHxS	398.9 > 79.6	7.00e2	8.57e2	0.116		4.00		10.2	49.200	
27	63 Total PFOA	413 > 368.7	2.86e3	9.50e3	0.116		4.30		3.76	28.565	
28	64 Total PFOS	499 > 79.9	0.00e0	2.16e3	0.116		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.75e3	0.116		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	7.29e1	3.15e3	0.116		5.40		0.290	2.750	

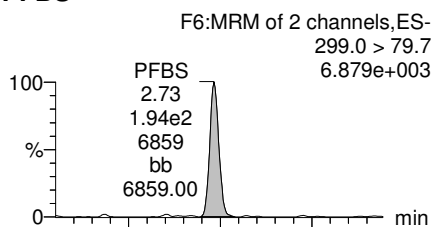
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Printed: Wednesday, December 27, 2017 08:13:52 Pacific Standard Time

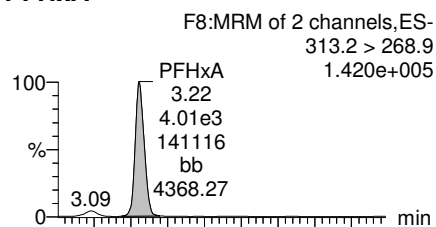
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Name: 171223M1_23, Date: 23-Dec-2017, Time: 17:03:00, ID: 1701882-09 WI-A06-EFF01P-1217 0.11592, Description: WI-A06-EFF01P-1217

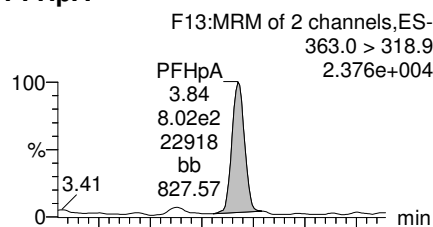
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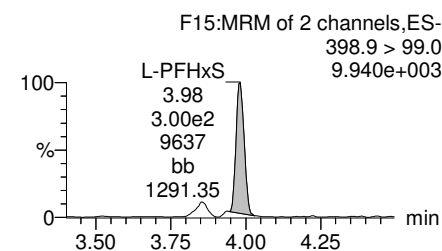
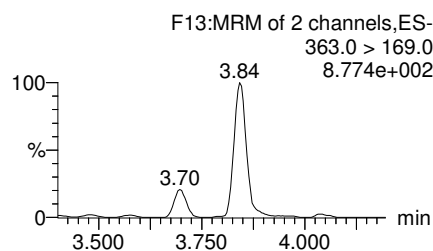
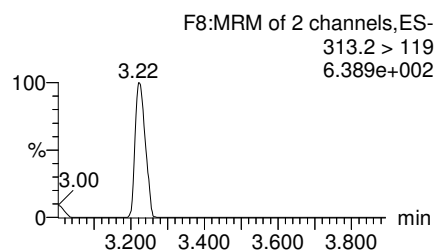
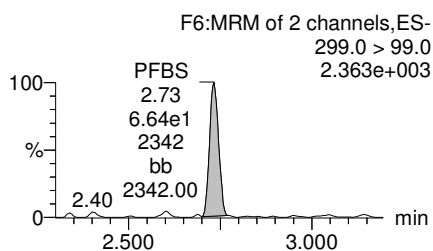
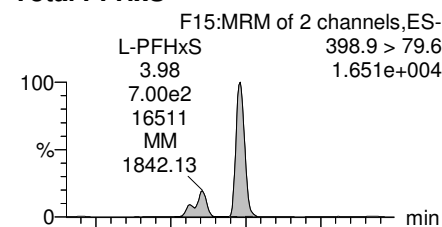
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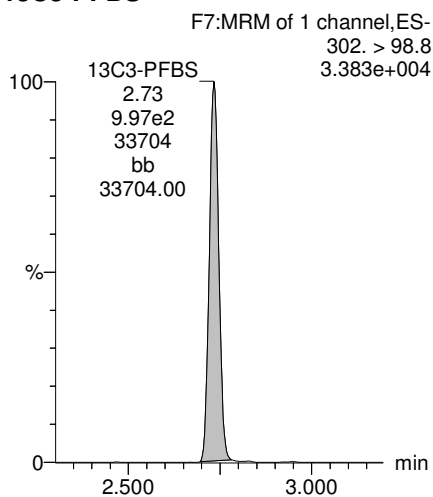
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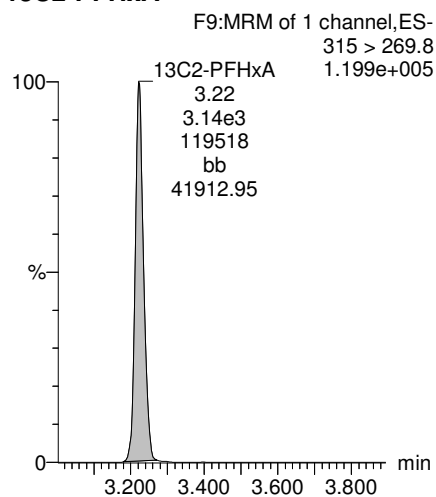
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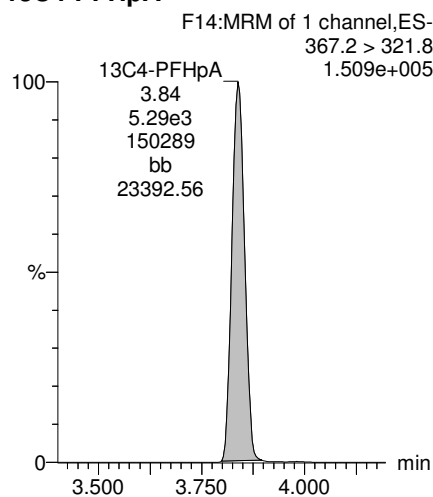
13C3-PFBS



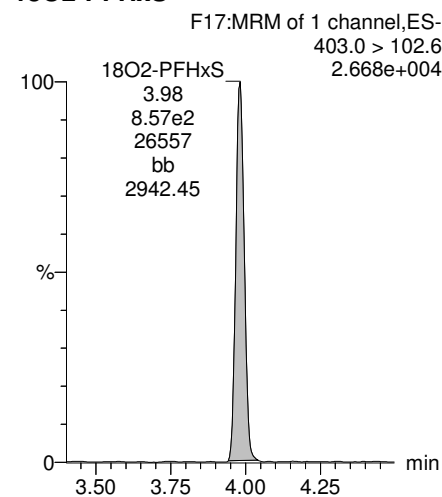
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

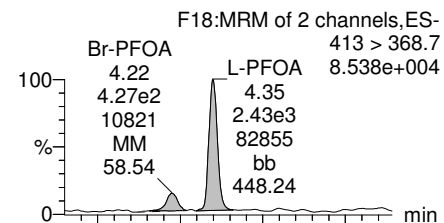


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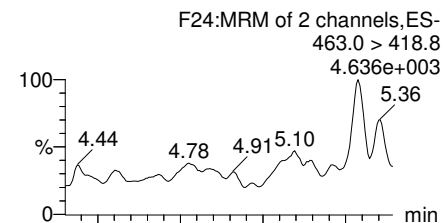
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Printed: Wednesday, December 27, 2017 08:13:52 Pacific Standard Time

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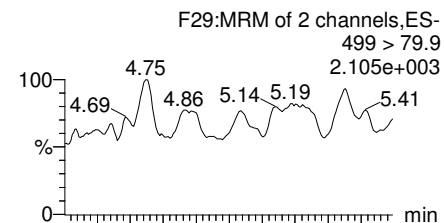
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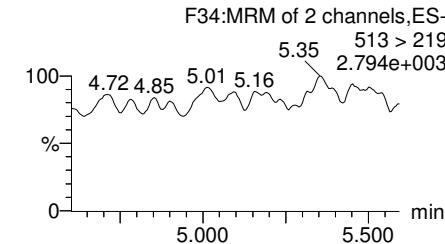
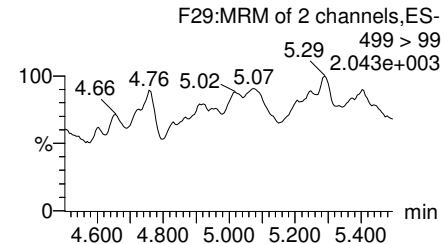
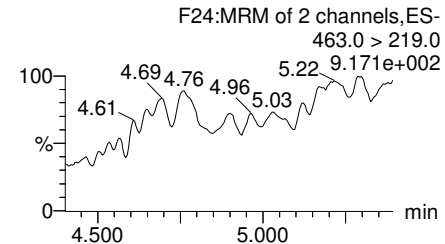
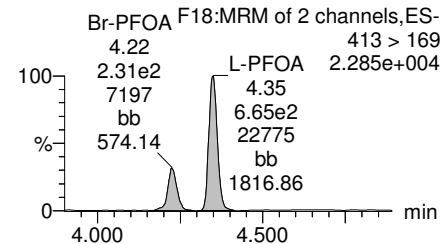
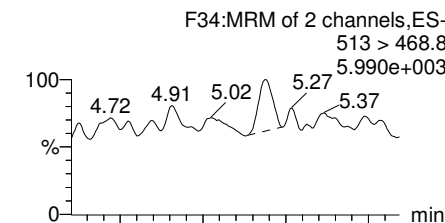
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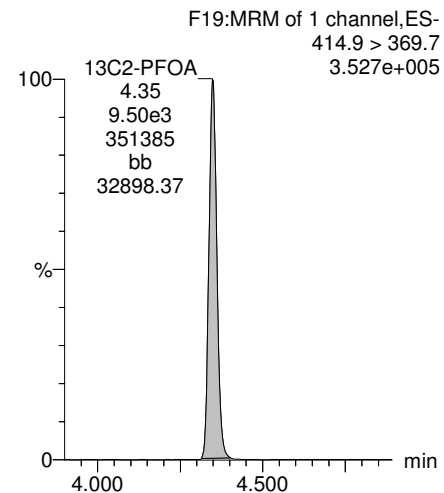
Total PFOS



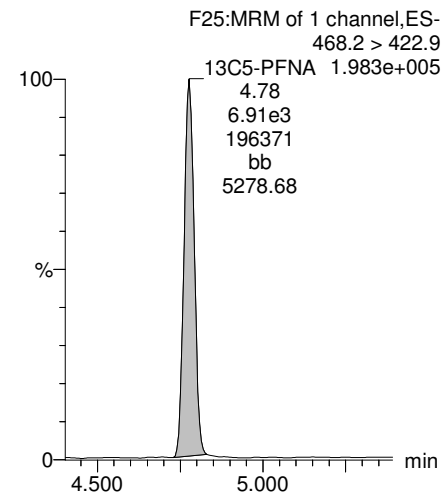
PFDA



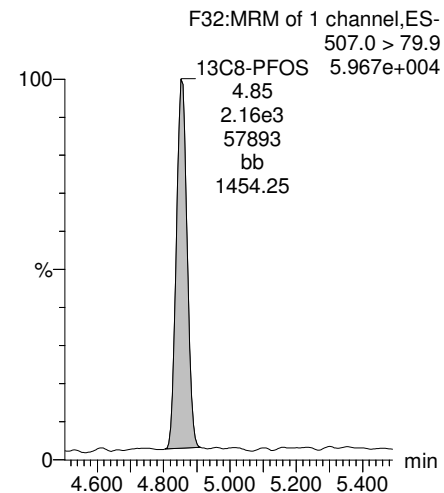
13C2-PFOA



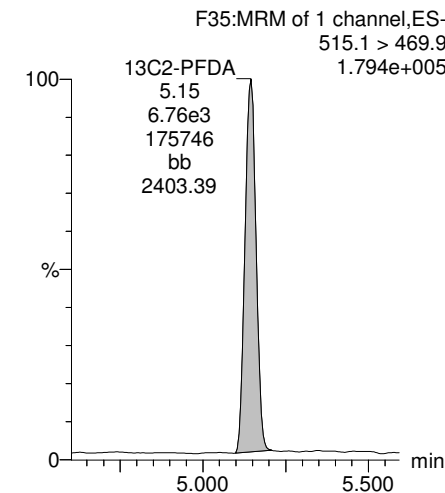
13C5-PFNA



13C8-PFOS



13C2-PFDA

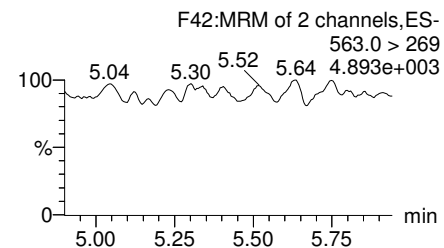
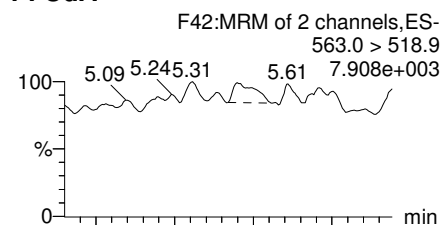


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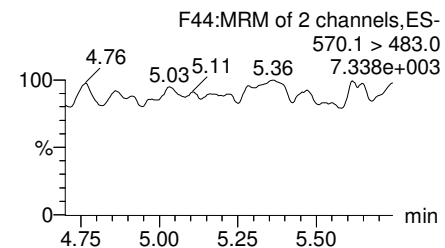
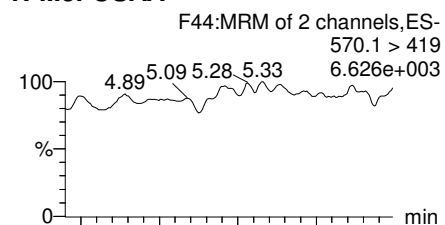
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Printed: Wednesday, December 27, 2017 08:13:52 Pacific Standard Time

Name: 171223M1_23, Date: 23-Dec-2017, Time: 17:03:00, ID: 1701882-09 WI-A06-EFF01P-1217 0.11592, Description: WI-A06-EFF01P-1217

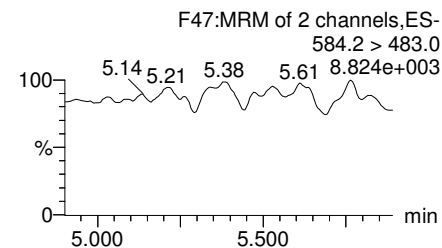
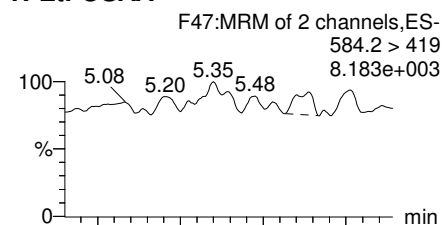
PFUdA



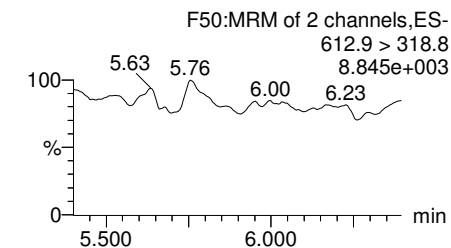
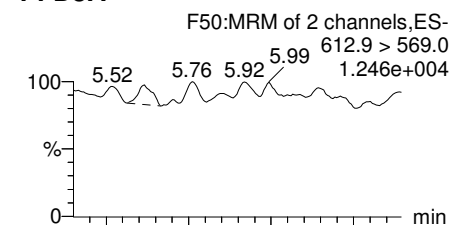
N-MeFOSAA



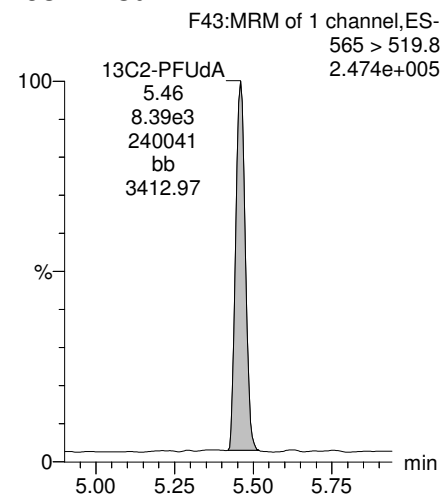
N-EtFOSAA



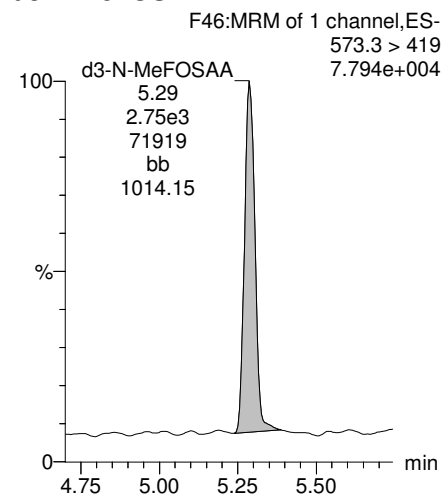
PFDaA



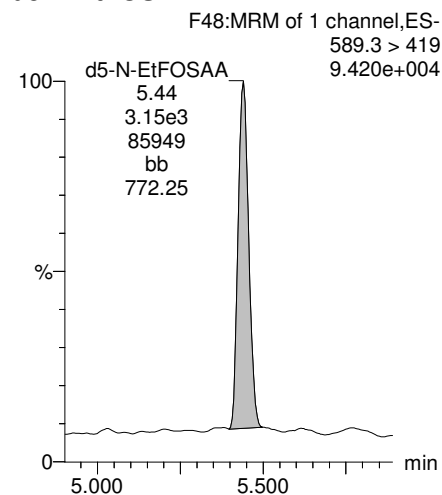
13C2-PFUdA



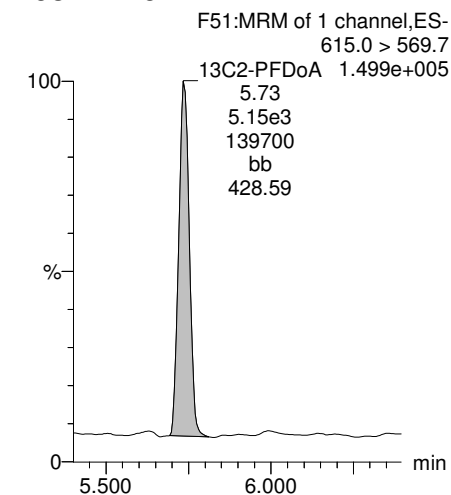
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d5-N-EtFOSAA



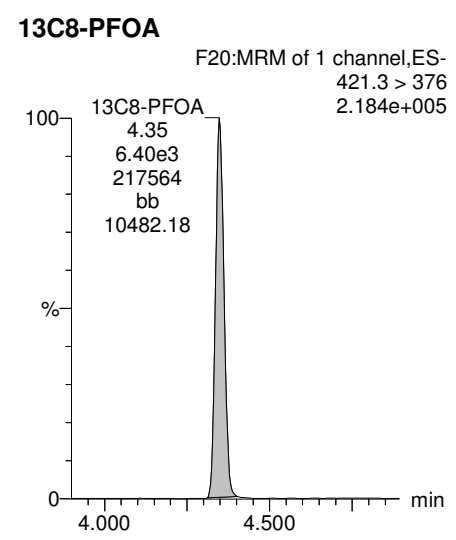
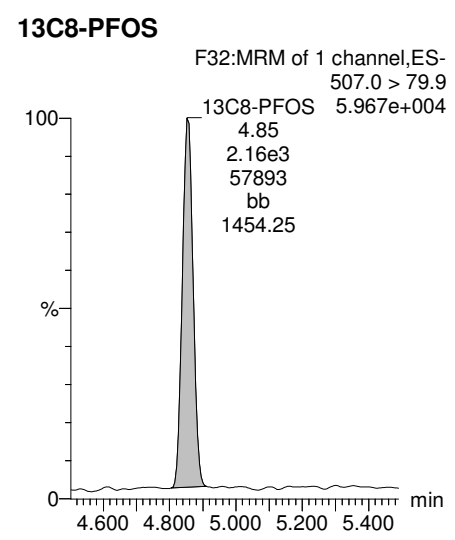
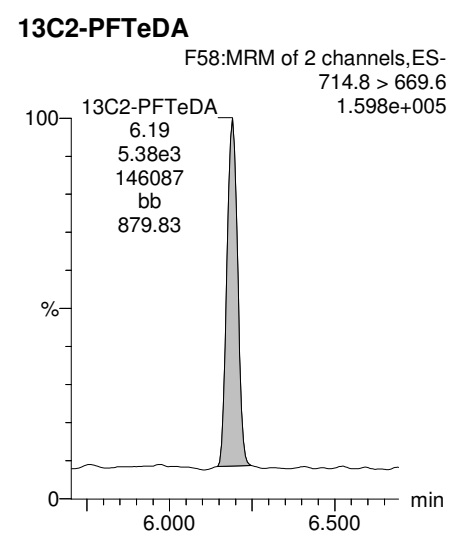
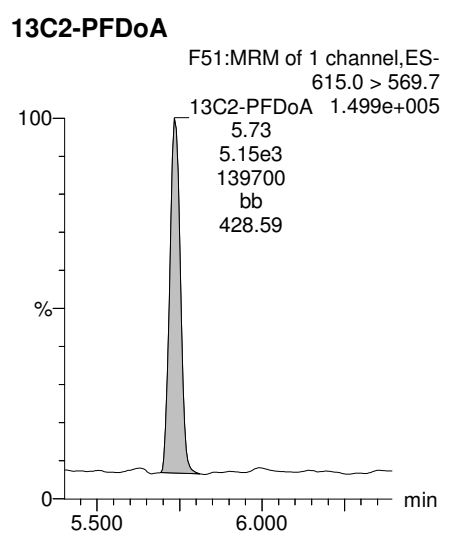
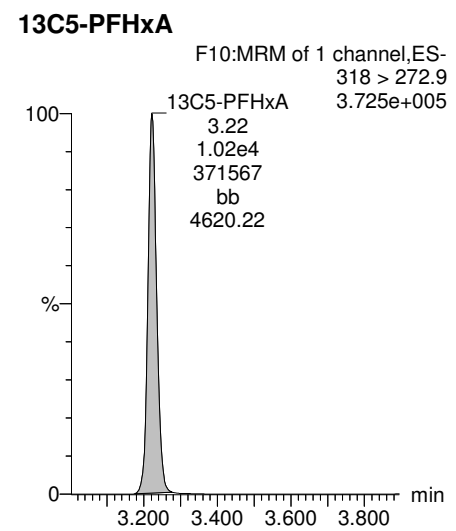
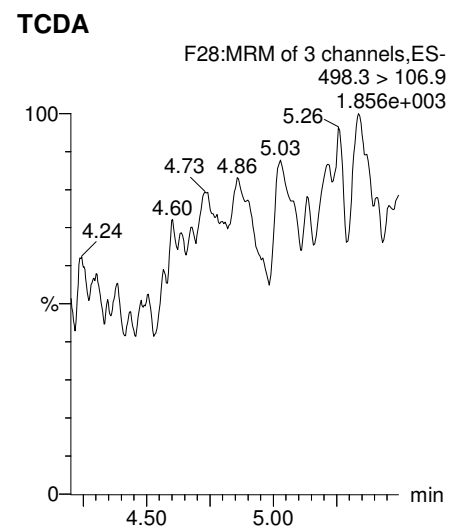
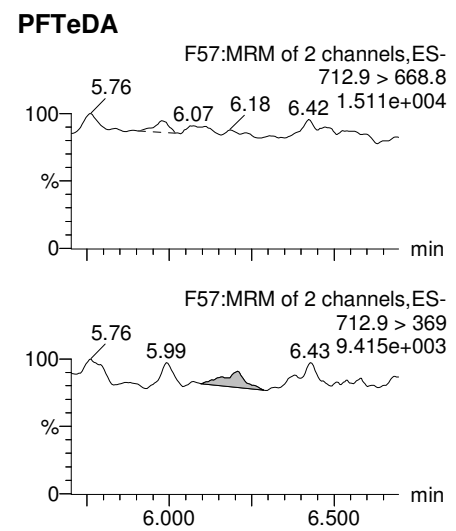
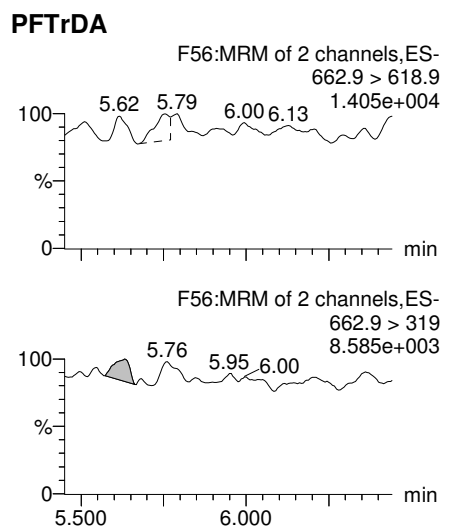
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Dataset: U:\Q4.PRO\results\171223M1\171223M1-23.qld

Last Altered: Wednesday, December 27, 2017 08:13:13 Pacific Standard Time
Printed: Wednesday, December 27, 2017 08:13:52 Pacific Standard Time

Name: 171223M1_23, Date: 23-Dec-2017, Time: 17:03:00, ID: 1701882-09 WI-A06-EFF01P-1217 0.11592, Description: WI-A06-EFF01P-1217

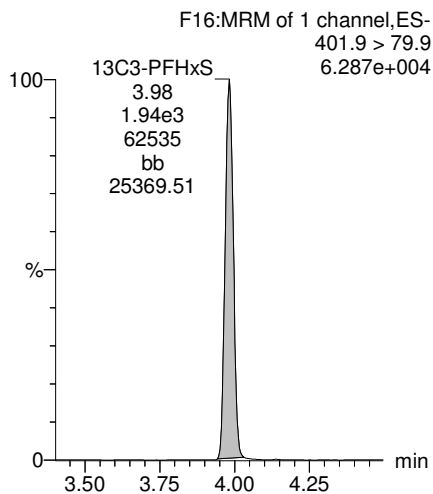


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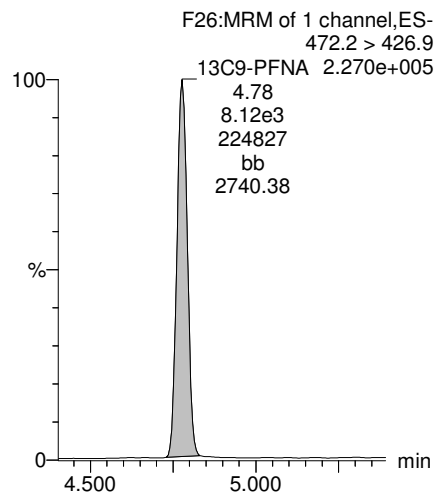
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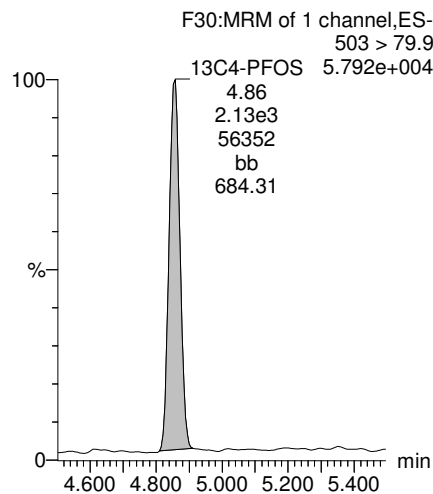
13C3-PFHxS



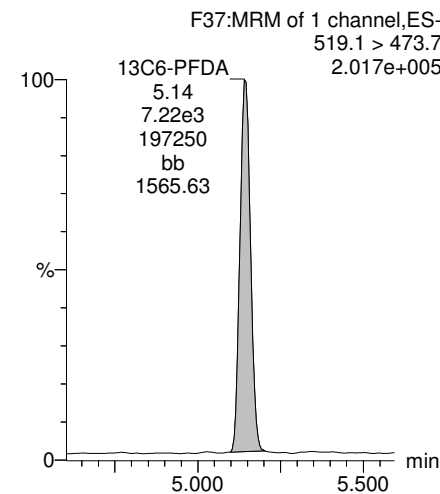
13C9-PFNA



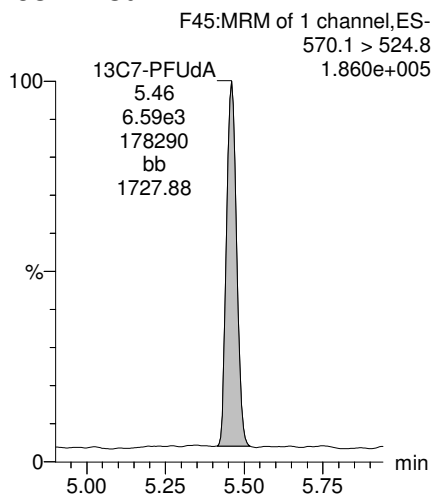
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-24.qld

Last Altered: Wednesday, December 27, 2017 08:18:37 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:19:08 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_24, Date: 23-Dec-2017, Time: 17:14:11, ID: 1701882-11 WI-A06-INF01-1217 0.1146, Description: WI-A06-INF01-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	2.10e2	1.03e3	0.115		2.70	2.74	2.56	10.600	
2	4 PFHxA	313.2 > 268.9	3.91e3	2.92e3	0.115		3.20	3.23	6.69	39.540	
3	5 PFHpA	363.0 > 318.9	8.84e2	5.91e3	0.115		3.80	3.84	1.87	11.273	
4	6 L-PFHxS	398.9 > 79.6	7.03e2	9.35e2	0.115		3.95	3.98	9.40	45.693	
5	9 L-PFOA	413 > 368.7	2.36e3	7.93e3	0.115		4.32	4.35	3.71	30.112	
6	12 PFNA	463.0 > 418.8		6.35e3	0.115		4.75				
7	14 L-PFOS	499 > 79.9		2.20e3	0.115		4.83				
8	16 PFDA	513 > 468.8		6.14e3	0.115		5.11				
9	18 N-MeFOSAA	570.1 > 419		2.46e3	0.115		5.26				
10	19 N-EtFOSAA	584.2 > 419		2.81e3	0.115		5.42				
11	20 PFUdA	563.0 > 518.9		8.38e3	0.115		5.43				
12	22 PFDoA	612.9 > 569.0		4.43e3	0.115		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-24.qld

Last Altered: Wednesday, December 27, 2017 08:18:37 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:19:25 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_24, Date: 23-Dec-2017, Time: 17:14:11, ID: 1701882-11 WI-A06-INF01-1217 0.1146, Description: WI-A06-INF01-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.43e3	0.115		5.95				
2	25 PFTeDA	712.9 > 668.8		5.13e3	0.115		6.16				
3	33 13C3-PFBS	302. > 98.8	1.03e3	9.51e3	0.115	0.106	2.70	2.73	1.35	111.226	102.0
4	34 13C2-PFHxA	315 > 269.8	2.92e3	9.51e3	0.115	0.743	3.20	3.23	3.84	45.074	103.3
5	35 13C4-PFHpA	367.2 > 321.8	5.91e3	9.51e3	0.115	0.557	3.80	3.84	7.77	121.783	111.7
6	36 18O2-PFHxS	403.0 > 102.6	9.35e2	1.94e3	0.115	0.433	3.95	3.98	6.03	121.708	111.6
7	37 13C2-6:2 FTS	429.1 > 408.9	2.41e3	6.66e3	0.115	0.275	4.26	4.29	4.53	143.939	132.0
8	38 13C2-PFOA	414.9 > 369.7	7.93e3	6.66e3	0.115	1.141	4.32	4.35	14.9	113.709	104.2
9	39 13C5-PFNA	468.2 > 422.9	6.35e3	7.98e3	0.115	0.963	4.75	4.78	9.95	90.199	82.7
10	40 13C8-PFOSA	506.1 > 77.7	2.38e3	6.33e3	0.115	0.373	4.81	4.83	4.70	109.875	100.7
11	41 13C8-PFOS	507.0 > 79.9	2.20e3	2.23e3	0.115	1.075	4.83	4.85	12.3	99.949	91.6
12	42 13C2-PFDA	515.1 > 469.9	6.14e3	4.85e3	0.115	1.213	5.11	5.14	15.8	113.809	104.3
13	43 13C2-8:2 FTS	529.1 > 508.7	1.14e3	9.51e3	0.115	0.109	5.09	5.11	1.50	119.596	109.6
14	44 d3-N-MeFOSAA	573.3 > 419	2.46e3	6.33e3	0.115	0.405	5.26	5.29	4.87	104.718	96.0
15	45 d5-N-EtFOSAA	589.3 > 419	2.81e3	6.33e3	0.115	0.490	5.42	5.44	5.56	98.942	90.7
16	46 13C2-PFUdA	565 > 519.8	8.38e3	6.33e3	0.115	1.154	5.43	5.46	16.6	125.176	114.8
17	47 13C2-PFDoA	615.0 > 569.7	4.43e3	6.33e3	0.115	0.623	5.70	5.73	8.75	122.686	112.5
18	49 13C2-PFTeDA	714.8 > 669.6	5.13e3	6.33e3	0.115	0.706	6.16	6.18	10.1	125.168	114.8
19	55 13C5-PFHxA	318 > 272.9	9.51e3	9.51e3	0.115	1.000	3.20	3.22	12.5	109.075	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.94e3	1.94e3	0.115	1.000	3.95	3.98	12.5	109.075	100.0
21	57 13C8-PFOA	421.3 > 376	6.66e3	6.66e3	0.115	1.000	4.32	4.35	12.5	109.075	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.98e3	7.98e3	0.115	1.000	4.75	4.78	12.5	109.075	100.0
23	59 13C4-PFOS	503 > 79.9	2.23e3	2.23e3	0.115	1.000	4.83	4.85	12.5	109.075	100.0
24	60 13C6-PFDA	519.1 > 473.7	4.85e3	4.85e3	0.115	1.000	5.11	5.14	12.5	109.075	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.33e3	6.33e3	0.115	1.000	5.43	5.46	12.5	109.075	100.0
26	62 Total PFHxS	398.9 > 79.6	7.03e2	9.35e2	0.115		4.00		9.40	45.693	
27	63 Total PFOA	413 > 368.7	2.85e3	7.93e3	0.115		4.30		4.49	35.107	
28	64 Total PFOS	499 > 79.9	0.00e0	2.20e3	0.115		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.46e3	0.115		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.81e3	0.115		5.40		0.000		

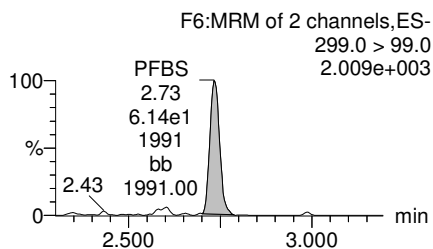
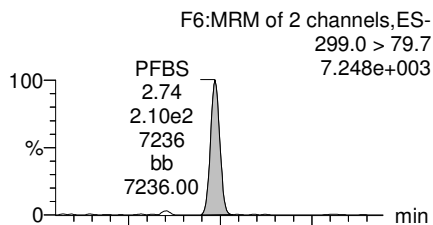
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Printed: Wednesday, December 27, 2017 08:19:25 Pacific Standard Time

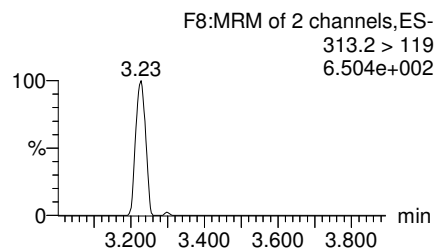
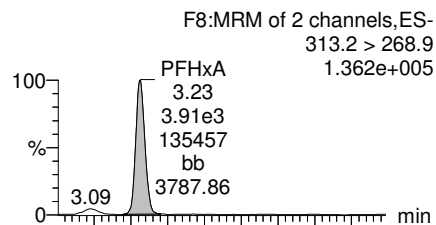
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Name: 171223M1_24, Date: 23-Dec-2017, Time: 17:14:11, ID: 1701882-11 WI-A06-INF01-1217 0.1146, Description: WI-A06-INF01-1217

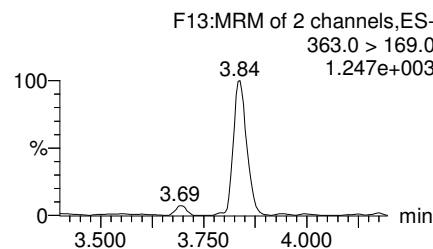
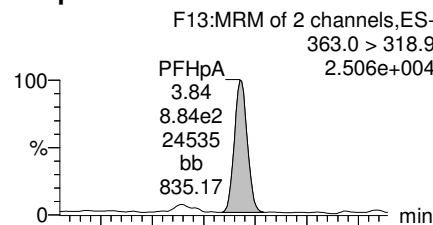
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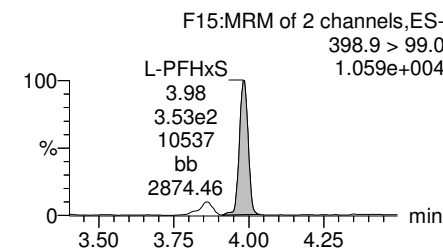
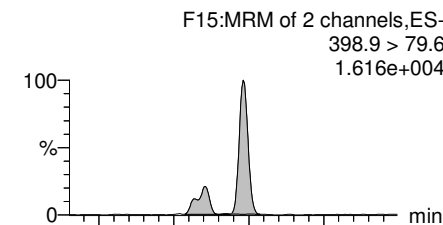
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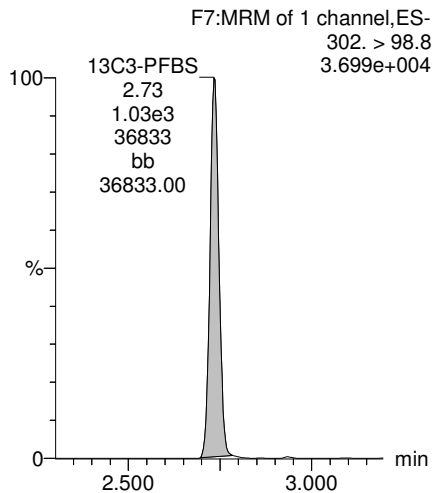
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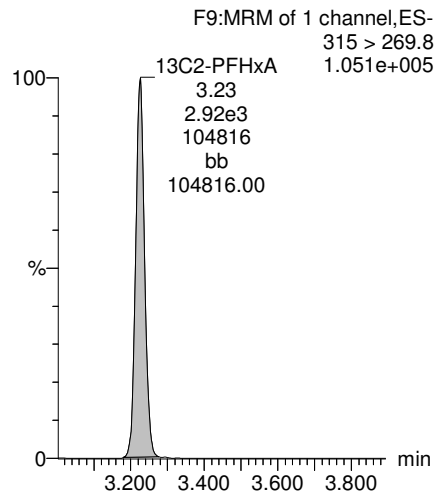
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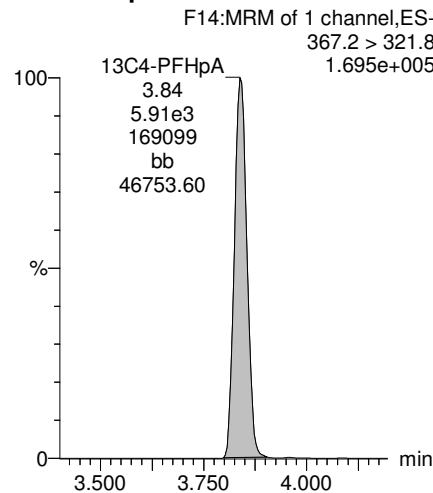
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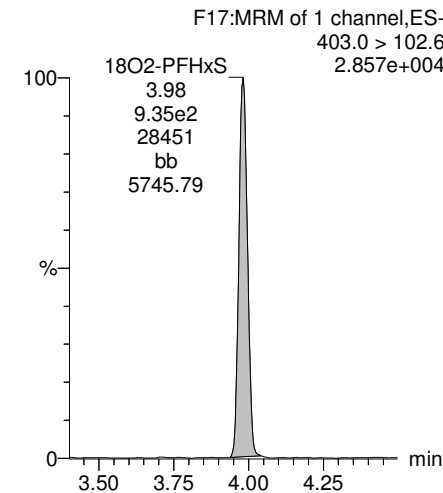
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

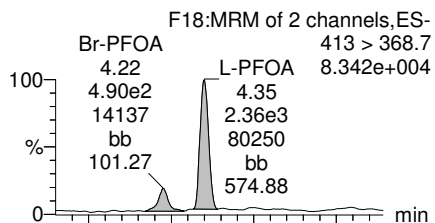


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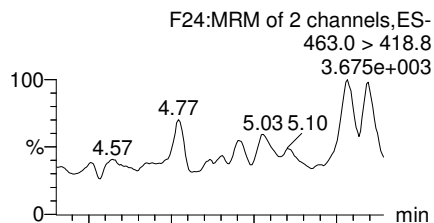
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Name: 171223M1_24, Date: 23-Dec-2017, Time: 17:14:11, ID: 1701882-11 WI-A06-INF01-1217 0.1146, Description: WI-A06-INF01-1217

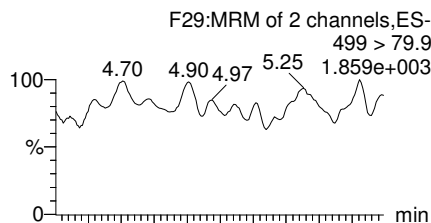
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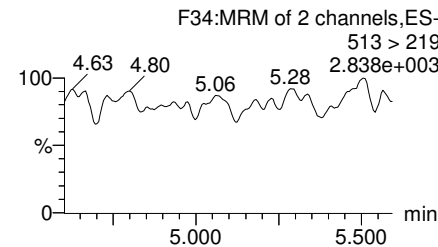
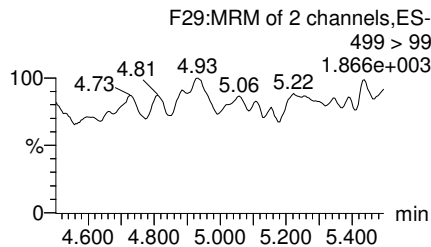
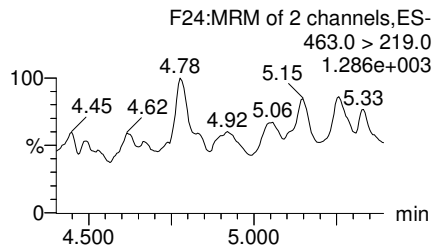
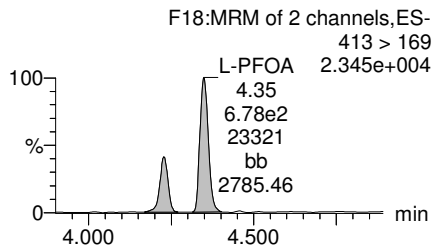
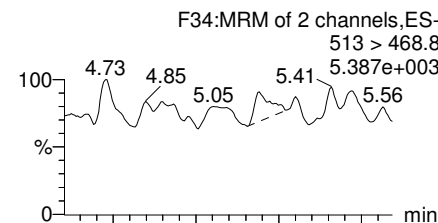
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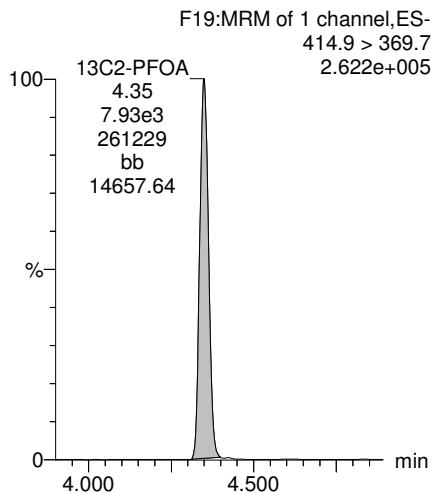
Total PFOS



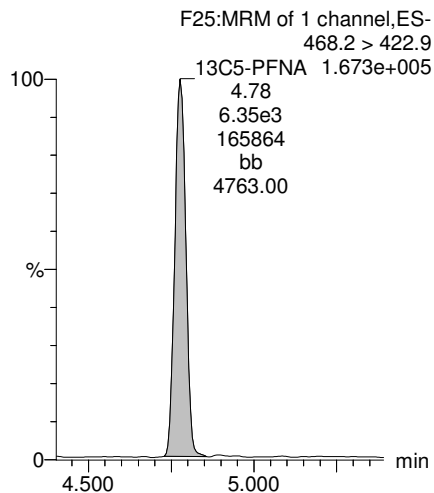
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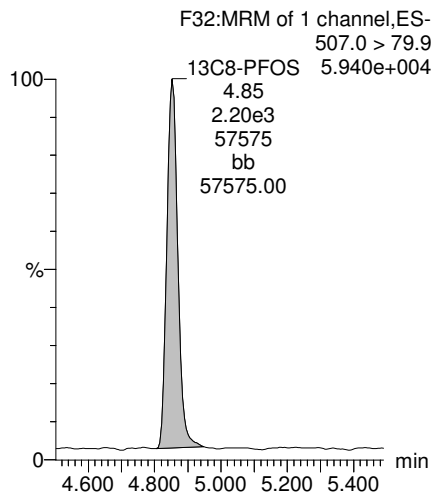
13C2-PFOA



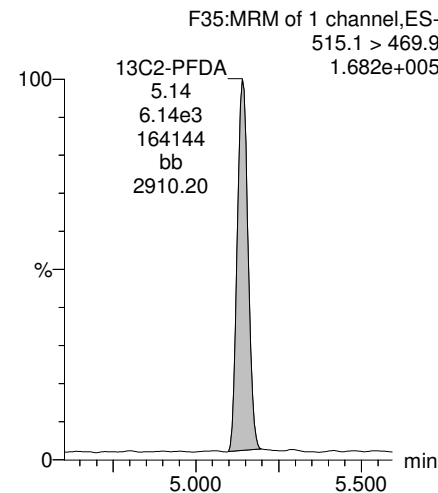
13C5-PFNA



13C8-PFOS



13C2-PFDA

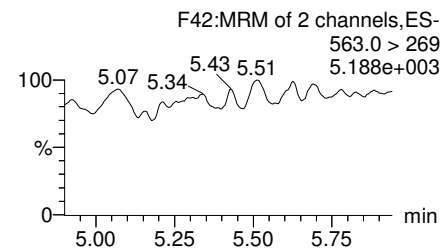
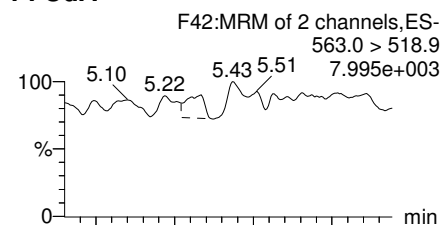


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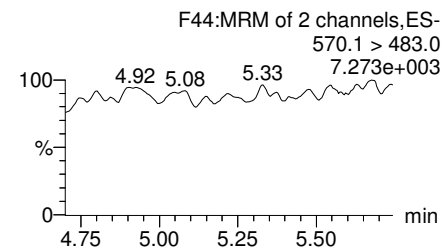
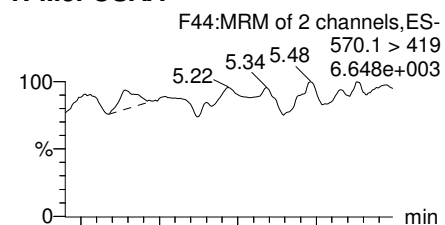
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Name: 171223M1_24, Date: 23-Dec-2017, Time: 17:14:11, ID: 1701882-11 WI-A06-INF01-1217 0.1146, Description: WI-A06-INF01-1217

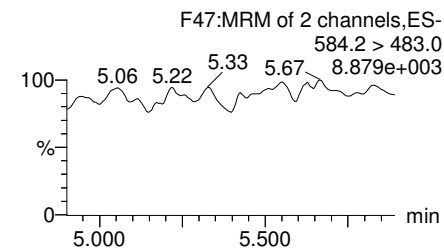
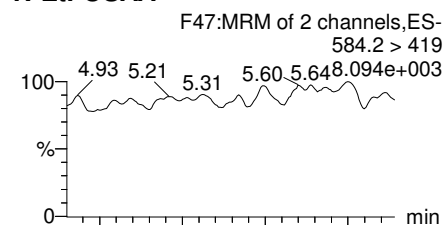
PFUdA



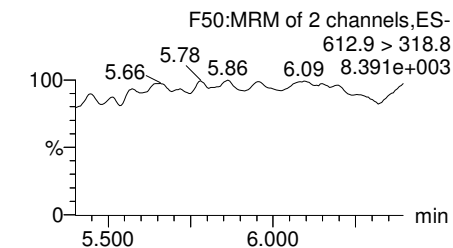
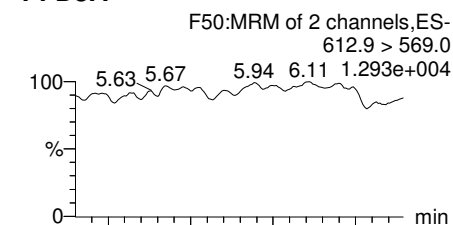
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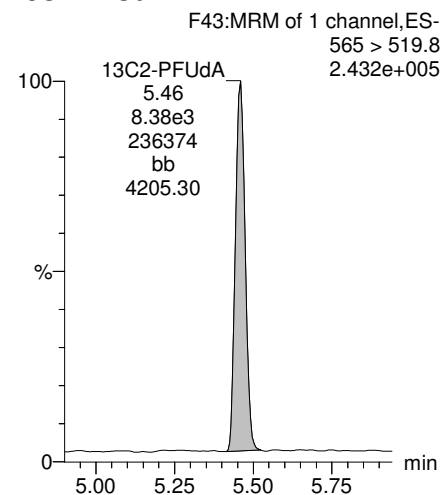
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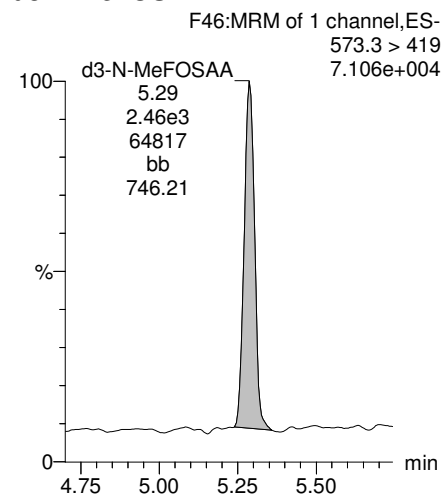
PFDoA



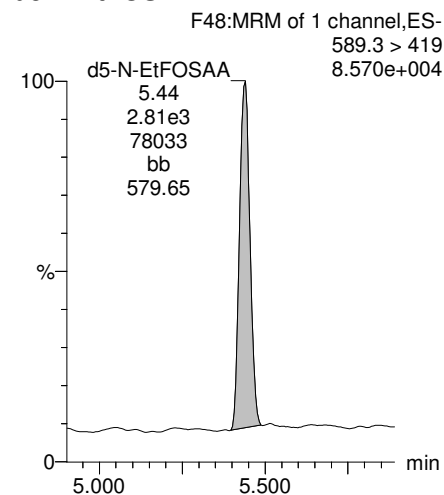
13C2-PFUdA



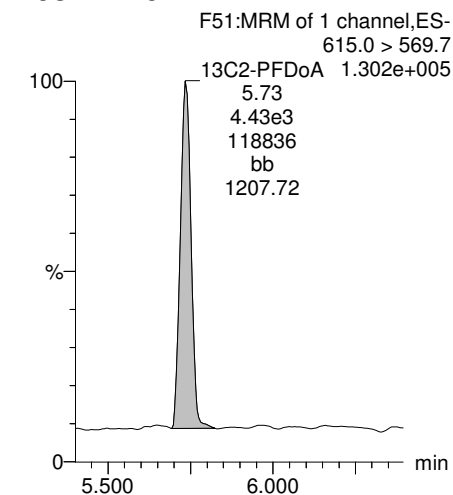
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d5-N-EtFOSAA



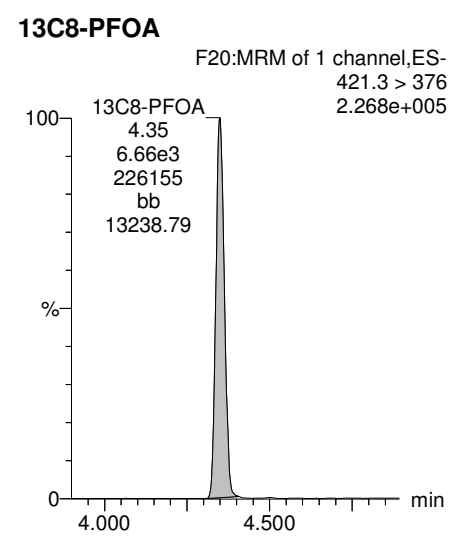
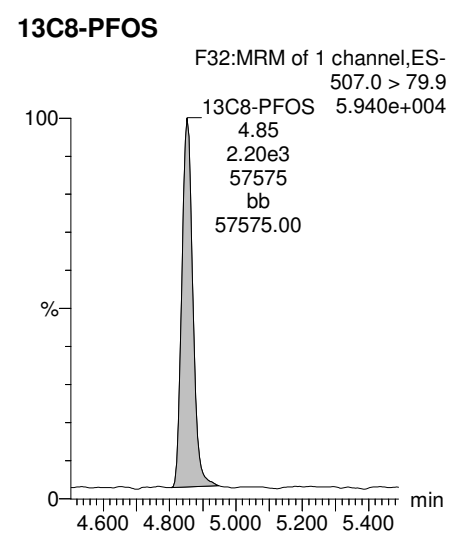
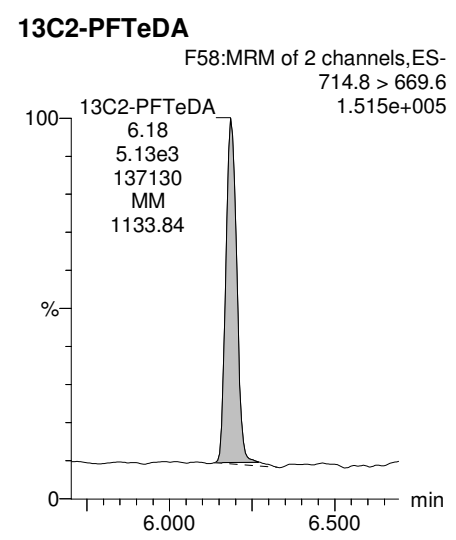
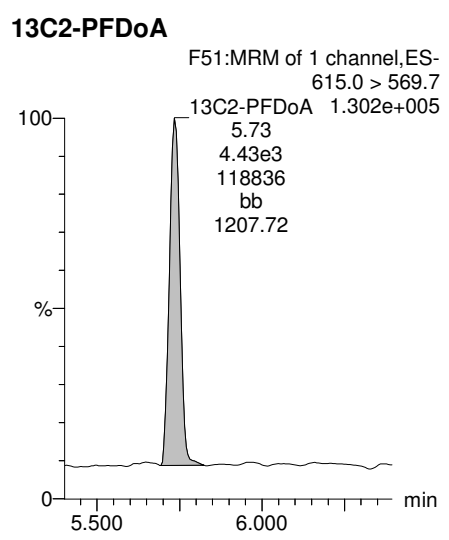
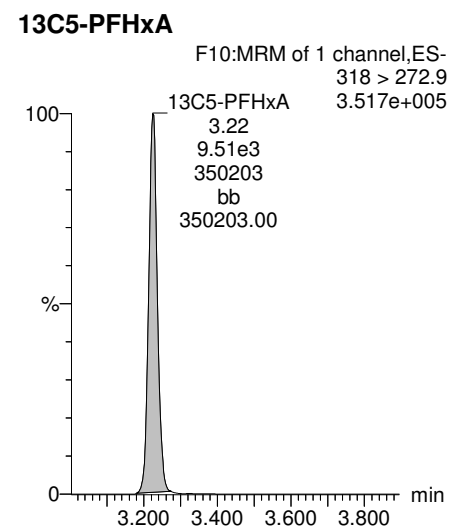
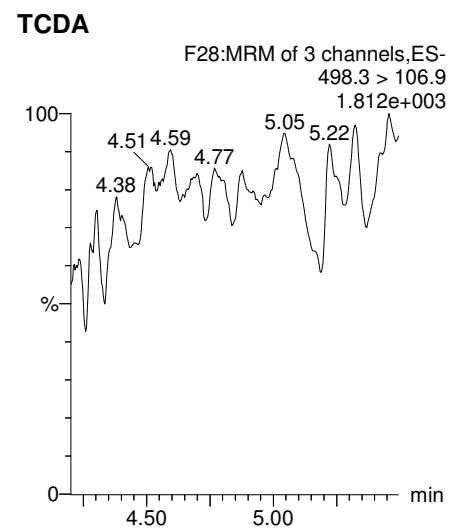
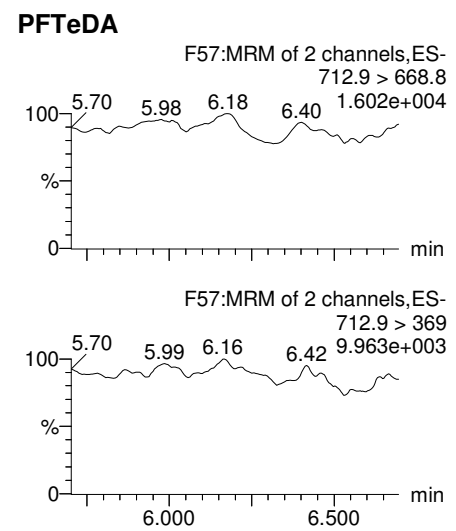
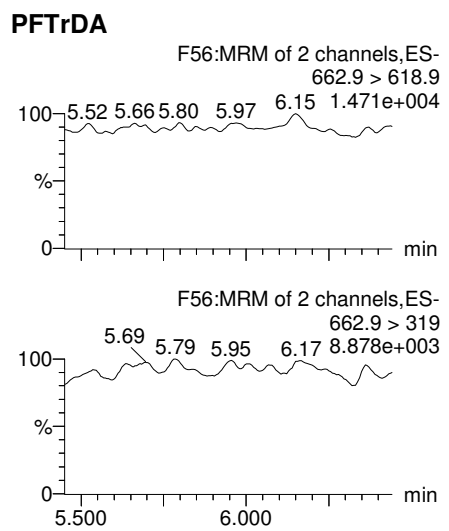
13C2-PFDoA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-24.qld

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Printed: Wednesday, December 27, 2017 08:19:25 Pacific Standard Time

Name: 171223M1_24, Date: 23-Dec-2017, Time: 17:14:11, ID: 1701882-11 WI-A06-INF01-1217 0.1146, Description: WI-A06-INF01-1217

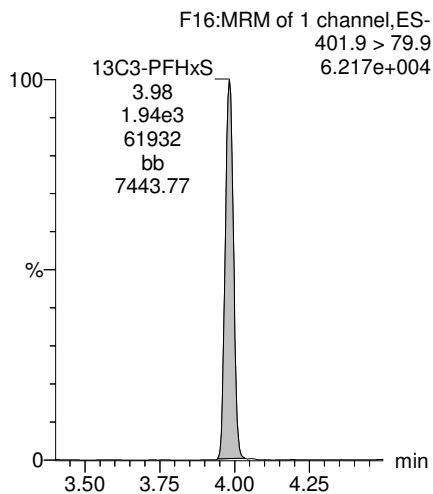


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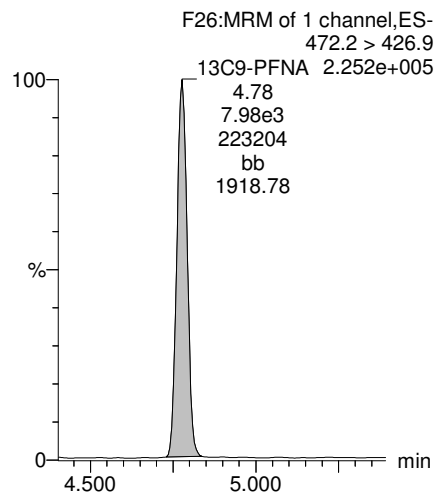
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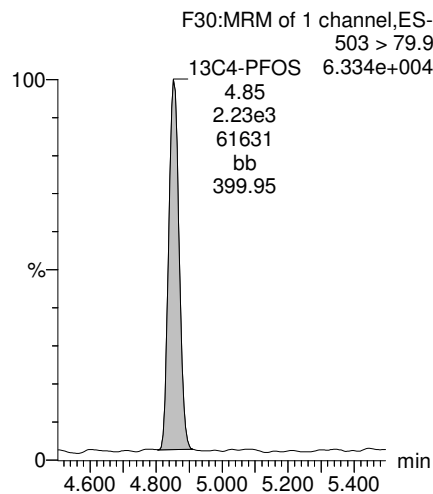
13C3-PFHxS



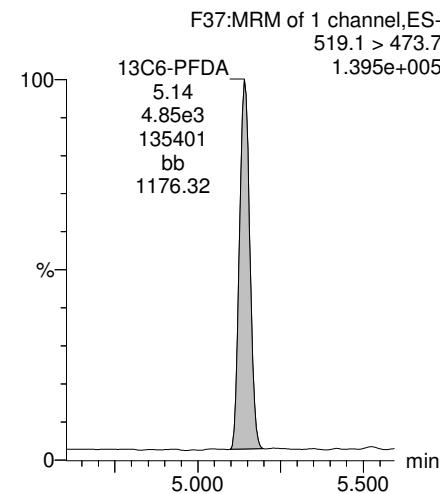
13C9-PFNA



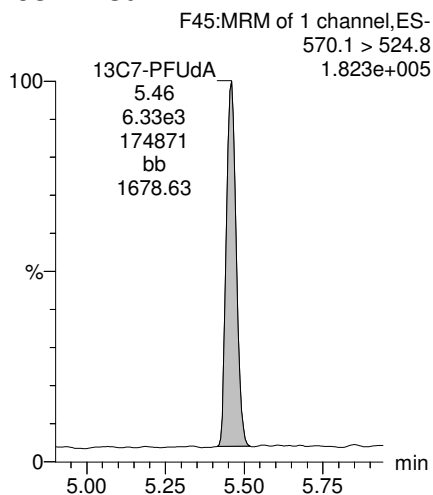
13C4-PFOS



13C6-PFDA



13C7-PFudA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-25.qld

Last Altered: Wednesday, December 27, 2017 08:23:47 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:25:00 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_25, Date: 23-Dec-2017, Time: 17:25:22, ID: 1701882-13 WI-A06-P-4-1217 0.1188, Description: WI-A06-P-4-1217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	1.97e2	1.01e3	0.119		2.70	2.74	2.43	9.726	
2	4	PFHxA	313.2 > 268.9	3.55e3	2.94e3	0.119		3.20	3.22	6.02	34.339	
3	5	PFHpA	363.0 > 318.9	8.29e2	5.00e3	0.119		3.80	3.84	2.07	11.944	
4	6	L-PFHxS	398.9 > 79.6	5.45e2	9.03e2	0.119		3.95	3.98	7.54	35.015	
5	9	L-PFOA	413 > 368.7	3.66e3	7.30e3	0.119		4.32	4.35	6.27	50.127	
6	12	PFNA	463.0 > 418.8	3.60e2	6.34e3	0.119		4.75	4.78	0.710	1.488	
7	14	L-PFOS	499 > 79.9		2.40e3	0.119		4.83				
8	16	PFDA	513 > 468.8		7.56e3	0.119		5.11				
9	18	N-MeFOSAA	570.1 > 419		3.01e3	0.119		5.26				
10	19	N-EtFOSAA	584.2 > 419		3.37e3	0.119		5.42				
11	20	PFUdA	563.0 > 518.9		6.59e3	0.119		5.43				
12	22	PFDoA	612.9 > 569.0		4.52e3	0.119		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-25.qld

Last Altered: Wednesday, December 27, 2017 08:23:47 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:27:11 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_25, Date: 23-Dec-2017, Time: 17:25:22, ID: 1701882-13 WI-A06-P-4-1217 0.1188, Description: WI-A06-P-4-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.52e3	0.119		5.95				
2	25 PFTeDA	712.9 > 668.8		4.61e3	0.119		6.16				
3	33 13C3-PFBS	302. > 98.8	1.01e3	8.90e3	0.119	0.106	2.70	2.73	1.42	113.021	107.4
4	34 13C2-PFHxA	315 > 269.8	2.94e3	8.90e3	0.119	0.743	3.20	3.22	4.13	46.794	111.2
5	35 13C4-PFHpA	367.2 > 321.8	5.00e3	8.90e3	0.119	0.557	3.80	3.84	7.02	106.226	101.0
6	36 18O2-PFHxS	403.0 > 102.6	9.03e2	1.92e3	0.119	0.433	3.95	3.98	5.89	114.612	108.9
7	37 13C2-6:2 FTS	429.1 > 408.9	1.62e3	5.74e3	0.119	0.275	4.26	4.29	3.53	108.196	102.8
8	38 13C2-PFOA	414.9 > 369.7	7.30e3	5.74e3	0.119	1.141	4.32	4.35	15.9	117.179	111.4
9	39 13C5-PFNA	468.2 > 422.9	6.34e3	7.34e3	0.119	0.963	4.75	4.78	10.8	94.390	89.7
10	40 13C8-PFOSA	506.1 > 77.7	2.60e3	7.61e3	0.119	0.373	4.81	4.83	4.27	96.230	91.5
11	41 13C8-PFOS	507.0 > 79.9	2.40e3	1.90e3	0.119	1.075	4.83	4.85	15.8	123.631	117.5
12	42 13C2-PFDA	515.1 > 469.9	7.56e3	4.90e3	0.119	1.213	5.11	5.15	19.3	133.807	127.2
13	43 13C2-8:2 FTS	529.1 > 508.7	9.43e2	8.90e3	0.119	0.109	5.09	5.11	1.32	101.879	96.8
14	44 d3-N-MeFOSAA	573.3 > 419	3.01e3	7.61e3	0.119	0.405	5.26	5.29	4.94	102.512	97.4
15	45 d5-N-EtFOSAA	589.3 > 419	3.37e3	7.61e3	0.119	0.490	5.42	5.44	5.54	95.140	90.4
16	46 13C2-PFUdA	565 > 519.8	6.59e3	7.61e3	0.119	1.154	5.43	5.46	10.8	78.922	75.0
17	47 13C2-PFDoA	615.0 > 569.7	4.52e3	7.61e3	0.119	0.623	5.70	5.73	7.43	100.479	95.5
18	49 13C2-PFTeDA	714.8 > 669.6	4.61e3	7.61e3	0.119	0.706	6.16	6.19	7.57	90.253	85.8
19	55 13C5-PFHxA	318 > 272.9	8.90e3	8.90e3	0.119	1.000	3.20	3.22	12.5	105.219	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.92e3	1.92e3	0.119	1.000	3.95	3.98	12.5	105.219	100.0
21	57 13C8-PFOA	421.3 > 376	5.74e3	5.74e3	0.119	1.000	4.32	4.35	12.5	105.219	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.34e3	7.34e3	0.119	1.000	4.75	4.78	12.5	105.219	100.0
23	59 13C4-PFOS	503 > 79.9	1.90e3	1.90e3	0.119	1.000	4.83	4.85	12.5	105.219	100.0
24	60 13C6-PFDA	519.1 > 473.7	4.90e3	4.90e3	0.119	1.000	5.11	5.15	12.5	105.219	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.61e3	7.61e3	0.119	1.000	5.43	5.46	12.5	105.219	100.0
26	62 Total PFHxS	398.9 > 79.6	5.45e2	9.03e2	0.119		4.00		7.54	35.015	
27	63 Total PFOA	413 > 368.7	4.35e3	7.30e3	0.119		4.30		7.44	58.214	
28	64 Total PFOS	499 > 79.9	0.00e0	2.40e3	0.119		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	3.01e3	0.119		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.37e3	0.119		5.40		0.000		

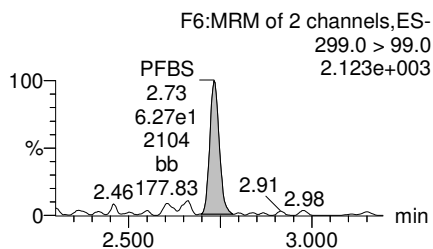
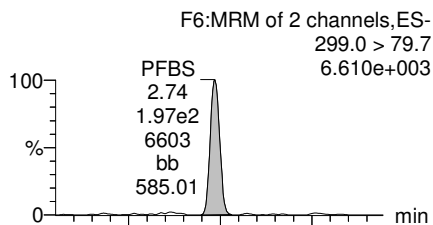
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Printed: Wednesday, December 27, 2017 08:27:11 Pacific Standard Time

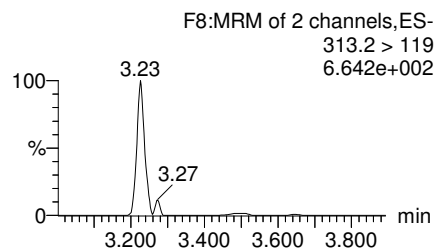
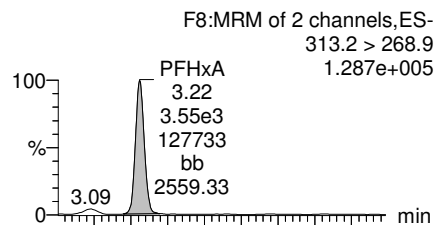
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Name: 171223M1_25, Date: 23-Dec-2017, Time: 17:25:22, ID: 1701882-13 WI-A06-P-4-1217 0.1188, Description: WI-A06-P-4-1217

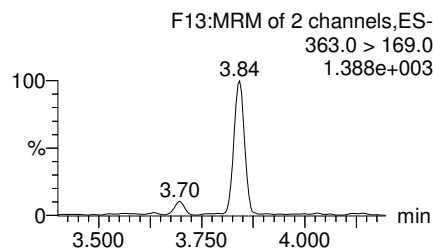
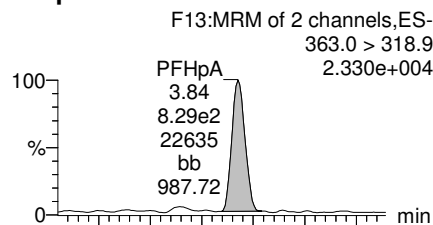
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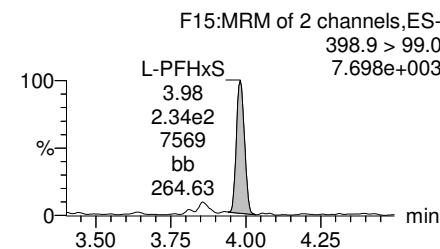
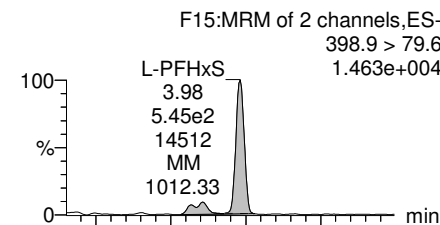
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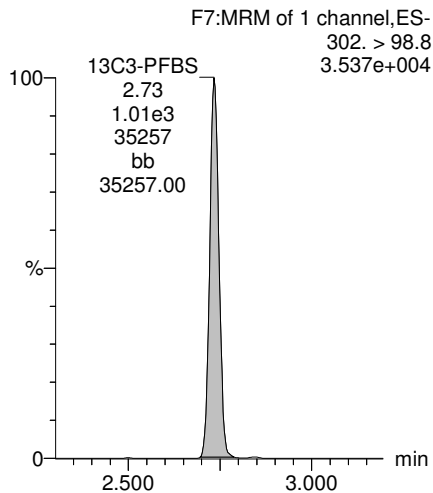
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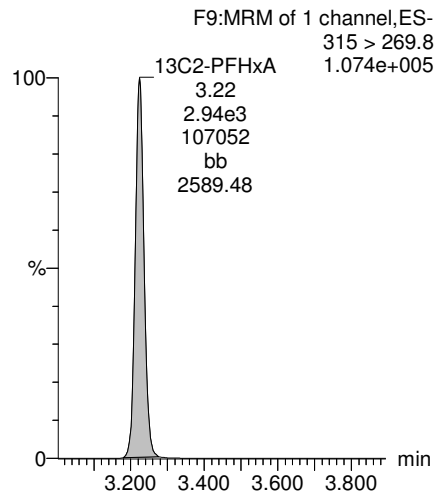
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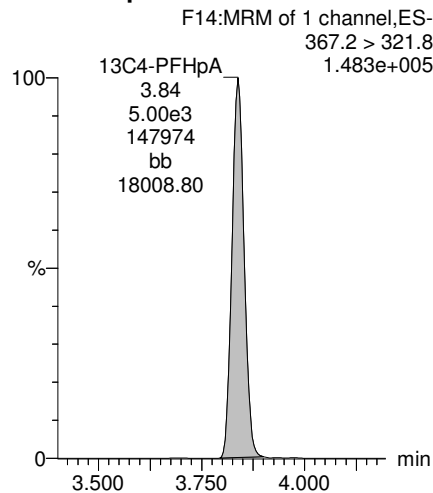
13C3-PFBS



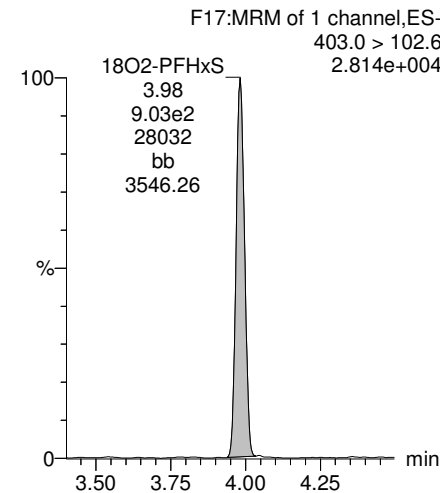
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

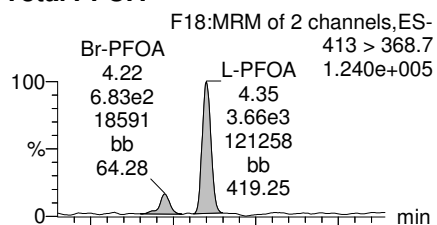


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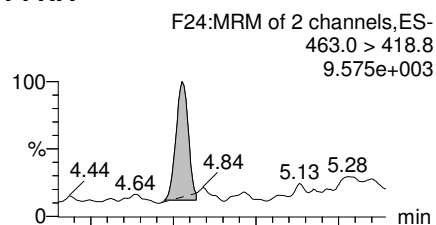
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Printed: Wednesday, December 27, 2017 08:27:11 Pacific Standard Time

Name: 171223M1_25, Date: 23-Dec-2017, Time: 17:25:22, ID: 1701882-13 WI-A06-P-4-1217 0.1188, Description: WI-A06-P-4-1217

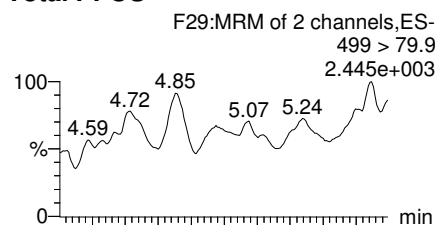
Total PFOA



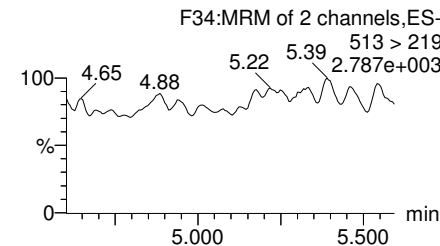
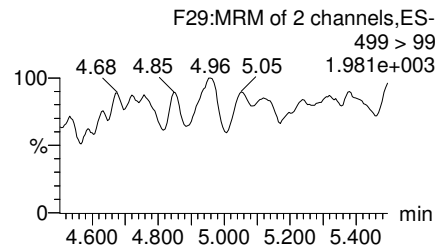
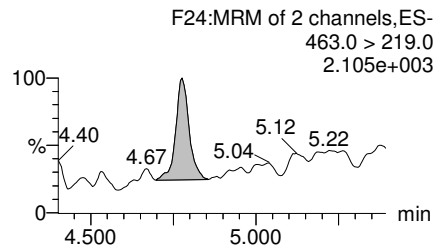
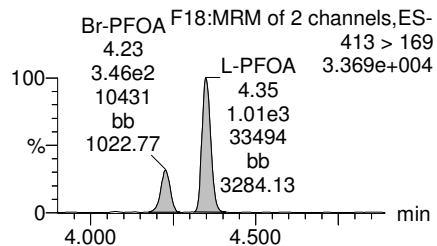
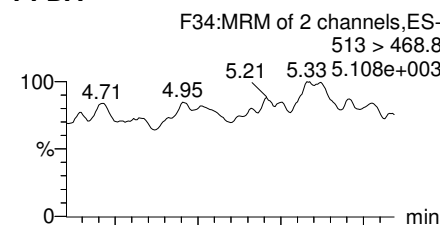
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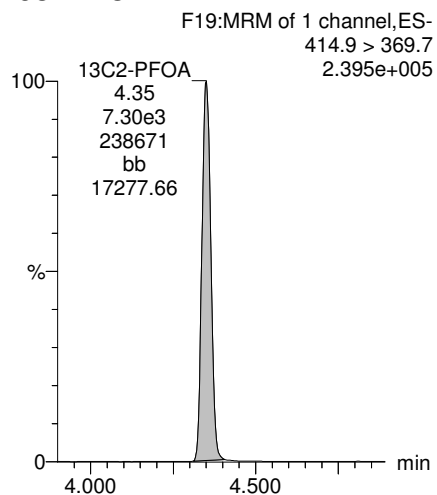
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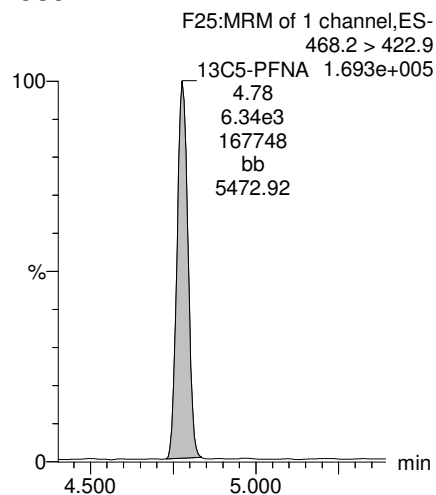
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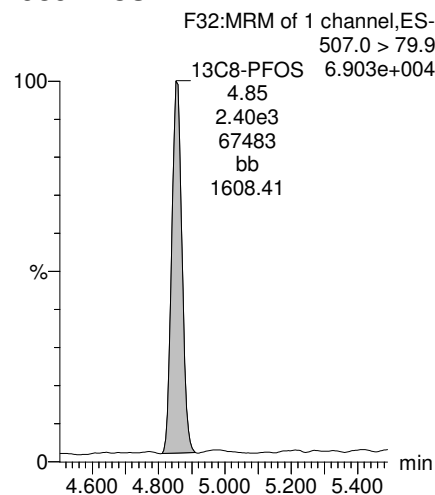
13C2-PFOA



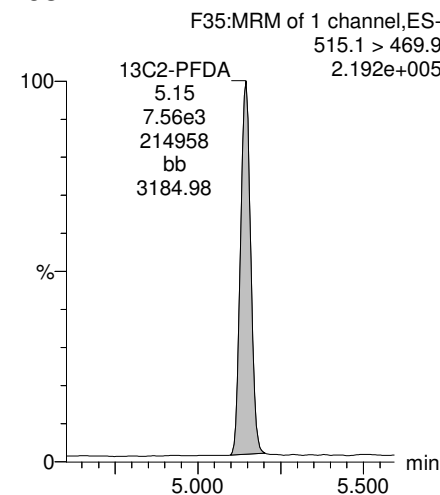
13C5-PFNA



13C8-PFOS



13C2-PFDA

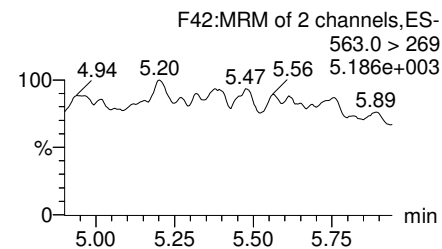
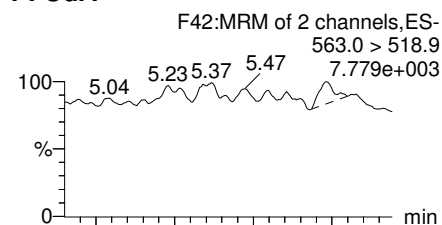


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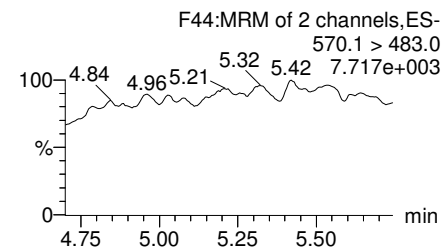
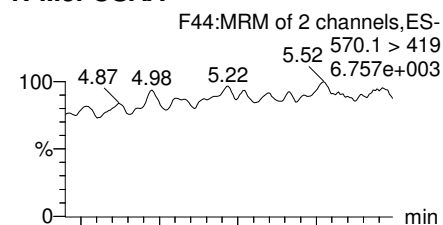
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Name: 171223M1_25, Date: 23-Dec-2017, Time: 17:25:22, ID: 1701882-13 WI-A06-P-4-1217 0.1188, Description: WI-A06-P-4-1217

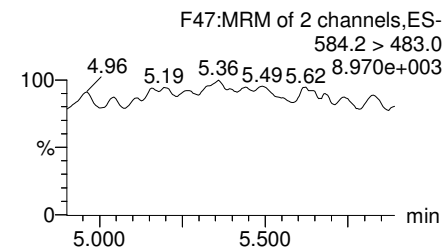
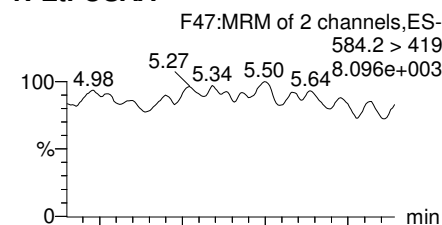
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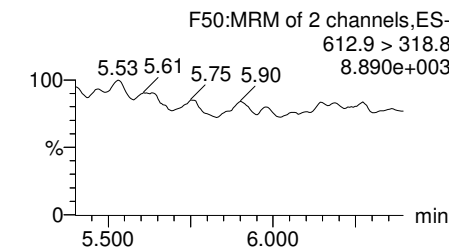
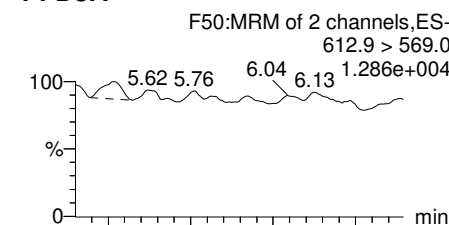
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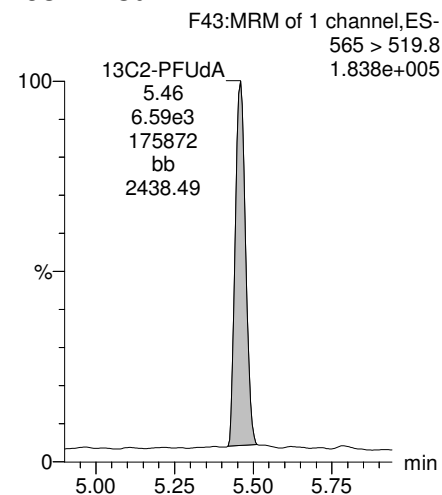
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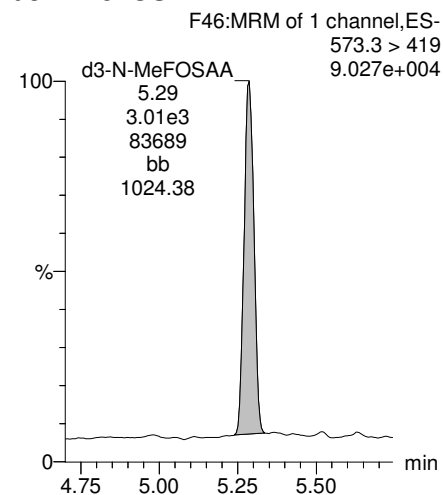
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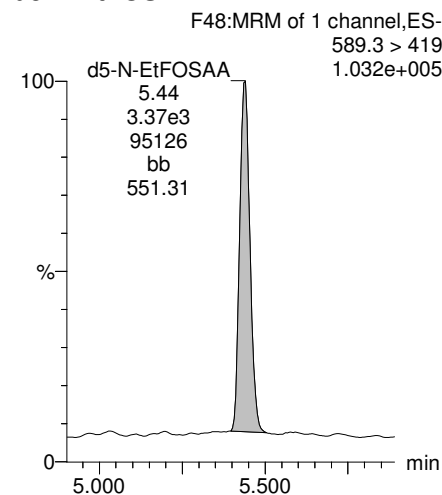
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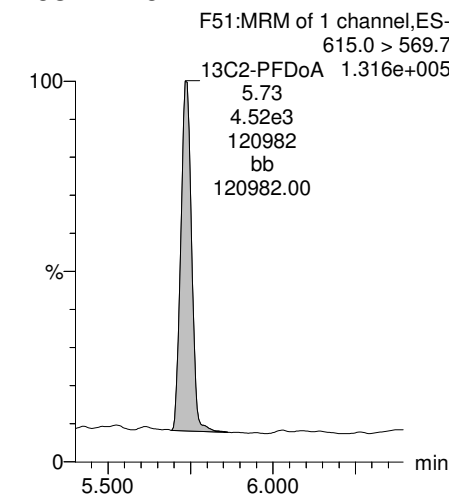
d3-N-MeFOSAA



d5-N-EtFOSAA



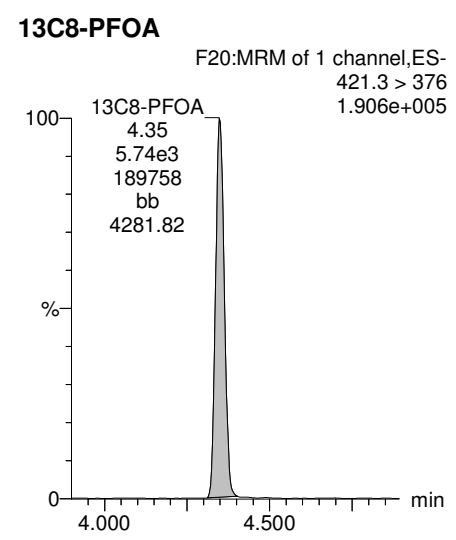
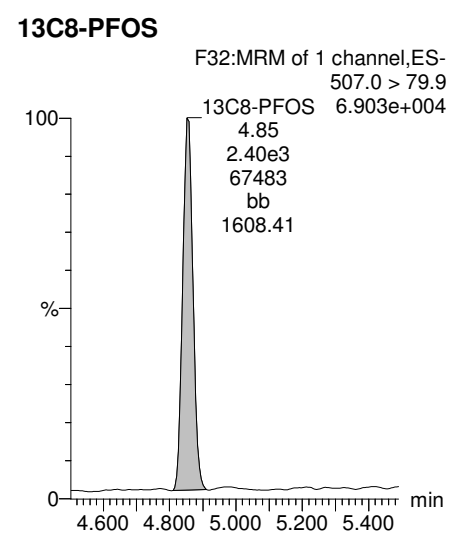
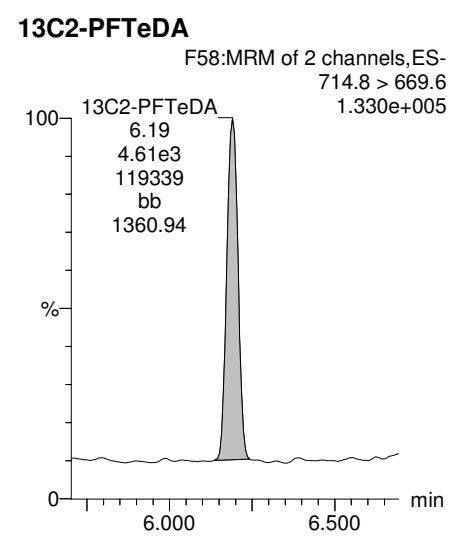
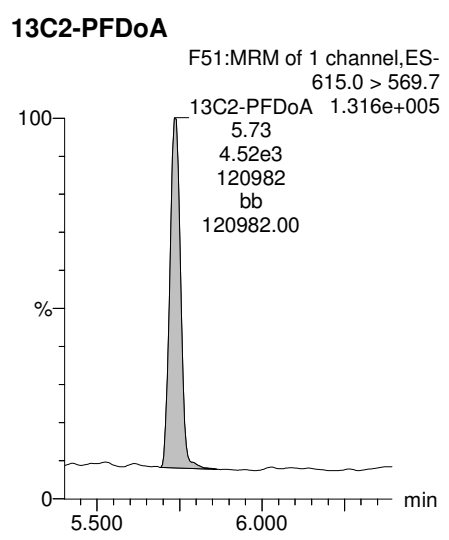
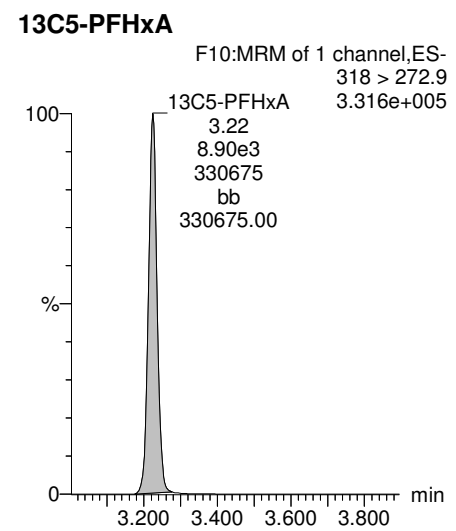
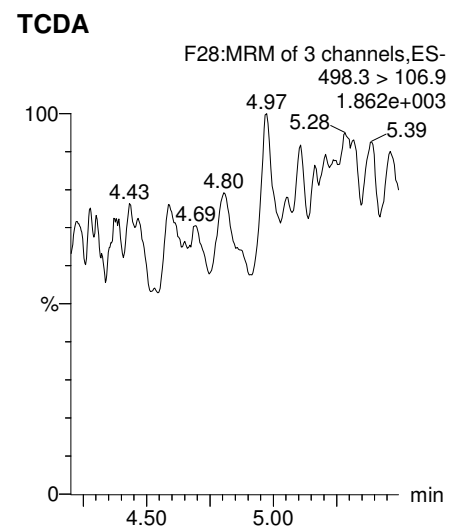
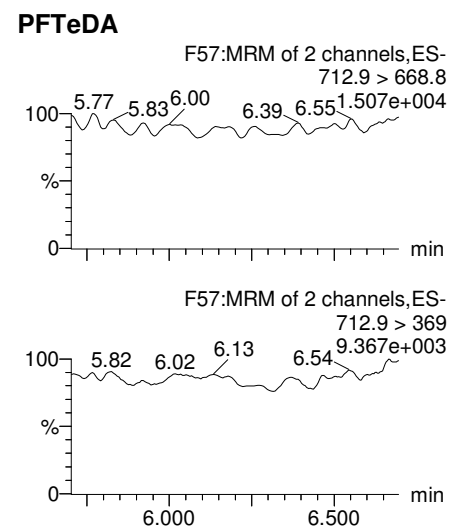
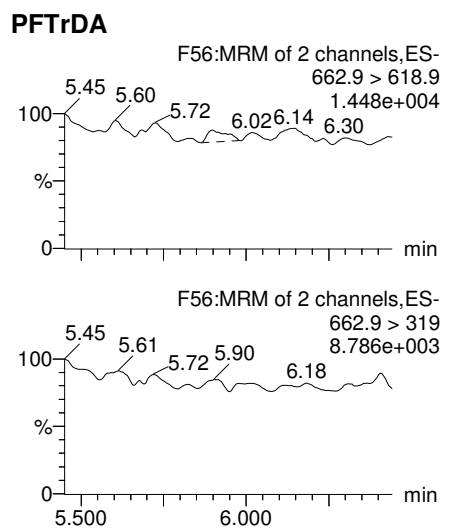
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Printed: Wednesday, December 27, 2017 08:27:11 Pacific Standard Time

Name: 171223M1_25, Date: 23-Dec-2017, Time: 17:25:22, ID: 1701882-13 WI-A06-P-4-1217 0.1188, Description: WI-A06-P-4-1217

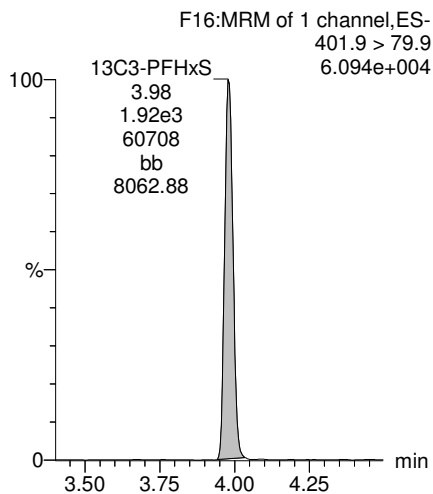


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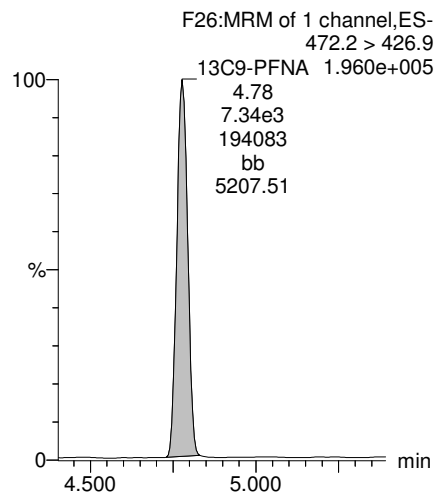
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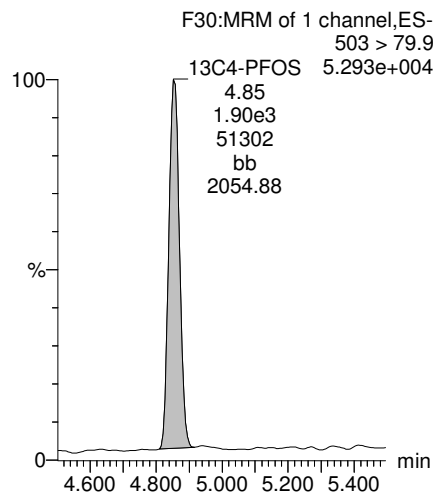
13C3-PFHxS



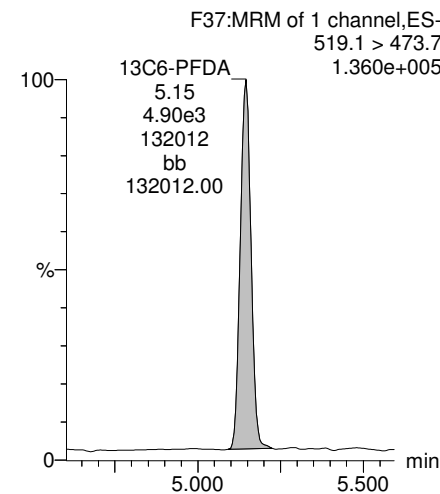
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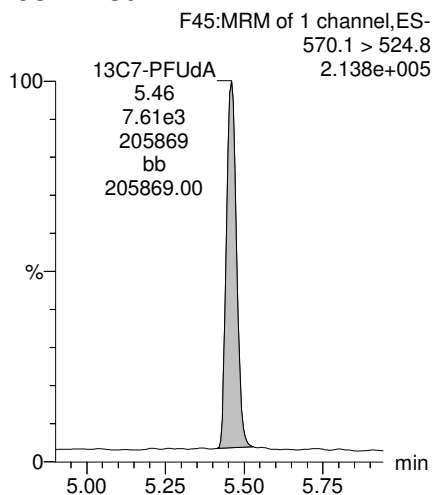
13C4-PFOS



13C6-PFDA



13C7-PFudA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-26.qld

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Printed: Wednesday, December 27, 2017 08:29:45 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 27 Dec 2017 08:24:24

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		1.01e3	0.110		2.70				
2	4	PFHxA	313.2 > 268.9		2.67e3	0.110		3.20				
3	5	PFHpA	363.0 > 318.9		4.95e3	0.110		3.80				
4	6	L-PFHxS	398.9 > 79.6		1.06e3	0.110		3.95				
5	9	L-PFOA	413 > 368.7		7.62e3	0.110		4.32				
6	12	PFNA	463.0 > 418.8		5.27e3	0.110		4.75				
7	14	L-PFOS	499 > 79.9		2.14e3	0.110		4.83				
8	16	PFDA	513 > 468.8		6.05e3	0.110		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.93e3	0.110		5.26				
10	19	N-EtFOSAA	584.2 > 419		2.94e3	0.110		5.42				
11	20	PFUdA	563.0 > 518.9		6.60e3	0.110		5.43				
12	22	PFDoA	612.9 > 569.0		3.35e3	0.110		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-26.qld

Last Altered: Wednesday, December 27, 2017 08:29:10 Pacific Standard Time

Printed: Wednesday, December 27, 2017 08:30:01 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 27 Dec 2017 08:24:24

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.35e3	0.110		5.95				
2	25 PFTeDA	712.9 > 668.8		4.24e3	0.110		6.16				
3	33 13C3-PFBS	302. > 98.8	1.01e3	9.10e3	0.110	0.106	2.70	2.74	1.39	119.538	105.0
4	34 13C2-PFHxA	315 > 269.8	2.67e3	9.10e3	0.110	0.743	3.20	3.23	3.67	44.956	98.7
5	35 13C4-PFHpA	367.2 > 321.8	4.95e3	9.10e3	0.110	0.557	3.80	3.84	6.81	111.430	97.8
6	36 18O2-PFHxS	403.0 > 102.6	1.06e3	1.85e3	0.110	0.433	3.95	3.99	7.16	150.741	132.4
7	37 13C2-6:2 FTS	429.1 > 408.9	1.65e3	6.58e3	0.110	0.275	4.26	4.30	3.13	103.894	91.2
8	38 13C2-PFOA	414.9 > 369.7	7.62e3	6.58e3	0.110	1.141	4.32	4.35	14.5	115.606	101.5
9	39 13C5-PFNA	468.2 > 422.9	5.27e3	6.38e3	0.110	0.963	4.75	4.78	10.3	97.718	85.8
10	40 13C8-PFOSA	506.1 > 77.7	2.10e3	7.14e3	0.110	0.373	4.81	4.84	3.67	89.495	78.6
11	41 13C8-PFOS	507.0 > 79.9	2.14e3	1.74e3	0.110	1.075	4.83	4.85	15.3	129.910	114.1
12	42 13C2-PFDA	515.1 > 469.9	6.05e3	5.11e3	0.110	1.213	5.11	5.15	14.8	111.148	97.6
13	43 13C2-8:2 FTS	529.1 > 508.7	8.57e2	9.10e3	0.110	0.109	5.09	5.11	1.18	98.099	86.1
14	44 d3-N-MeFOSAA	573.3 > 419	2.93e3	7.14e3	0.110	0.405	5.26	5.29	5.13	115.370	101.3
15	45 d5-N-EtFOSAA	589.3 > 419	2.94e3	7.14e3	0.110	0.490	5.42	5.44	5.15	95.676	84.0
16	46 13C2-PFUdA	565 > 519.8	6.60e3	7.14e3	0.110	1.154	5.43	5.46	11.5	91.127	80.0
17	47 13C2-PFDoA	615.0 > 569.7	3.35e3	7.14e3	0.110	0.623	5.70	5.74	5.86	85.735	75.3
18	49 13C2-PFTeDA	714.8 > 669.6	4.24e3	7.14e3	0.110	0.706	6.16	6.19	7.42	95.711	84.0
19	55 13C5-PFHxA	318 > 272.9	9.10e3	9.10e3	0.110	1.000	3.20	3.23	12.5	113.885	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.85e3	1.85e3	0.110	1.000	3.95	3.99	12.5	113.885	100.0
21	57 13C8-PFOA	421.3 > 376	6.58e3	6.58e3	0.110	1.000	4.32	4.35	12.5	113.885	100.0
22	58 13C9-PFNA	472.2 > 426.9	6.38e3	6.38e3	0.110	1.000	4.75	4.78	12.5	113.885	100.0
23	59 13C4-PFOS	503 > 79.9	1.74e3	1.74e3	0.110	1.000	4.83	4.86	12.5	113.885	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.11e3	5.11e3	0.110	1.000	5.11	5.15	12.5	113.885	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.14e3	7.14e3	0.110	1.000	5.43	5.46	12.5	113.885	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	1.06e3	0.110		4.00		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	7.62e3	0.110		4.30		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	2.14e3	0.110		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.93e3	0.110		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.94e3	0.110		5.40		0.000		

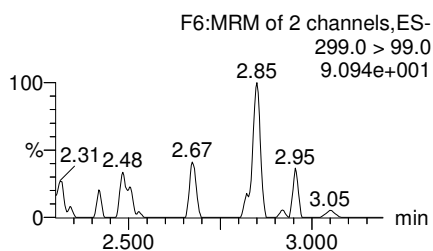
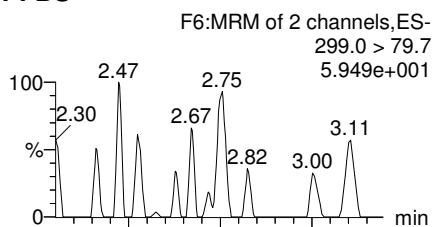
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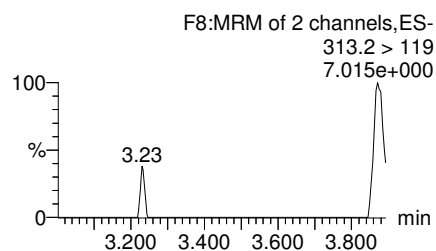
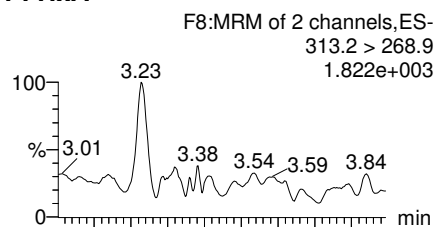
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Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

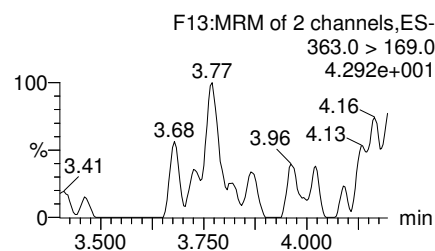
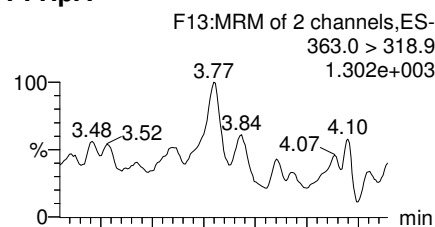
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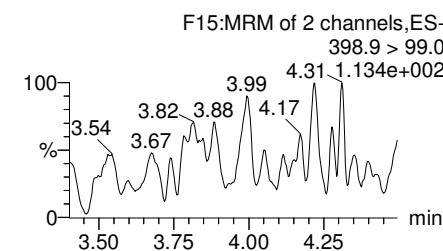
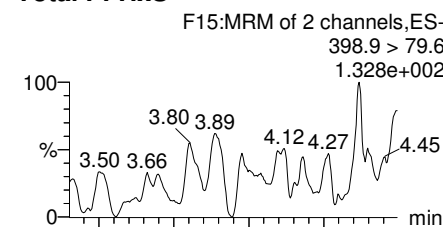
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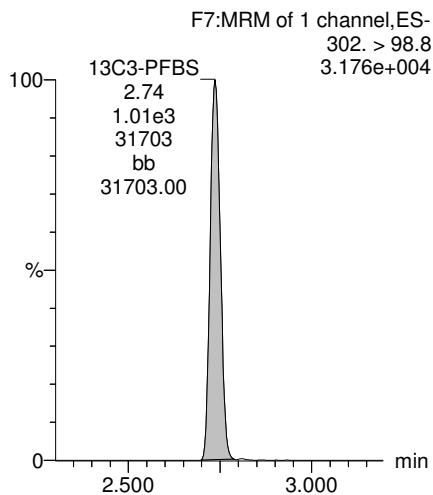
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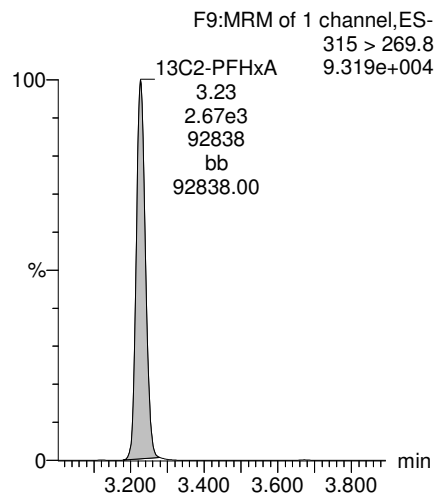
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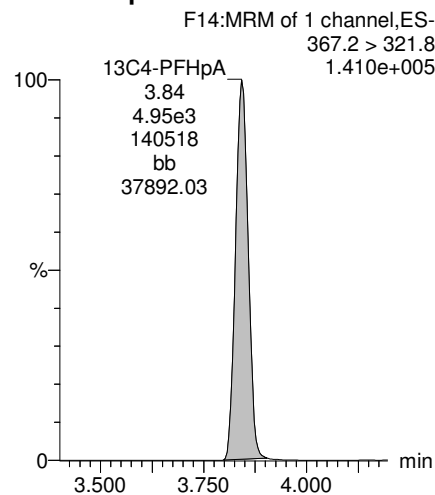
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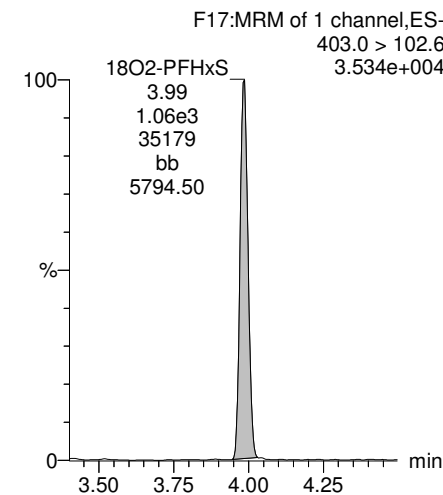
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13C4-PFHpA



18O2-PFHxS

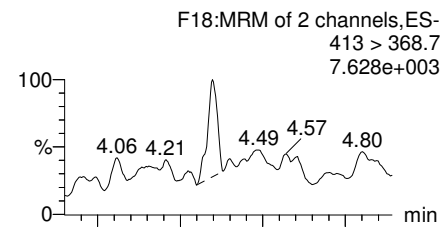


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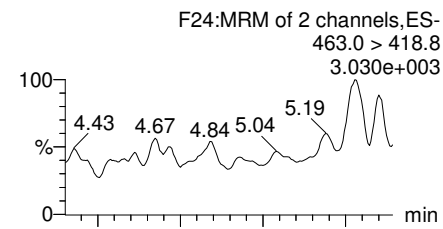
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Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

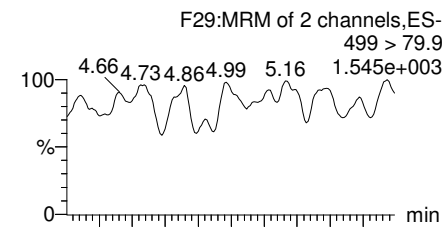
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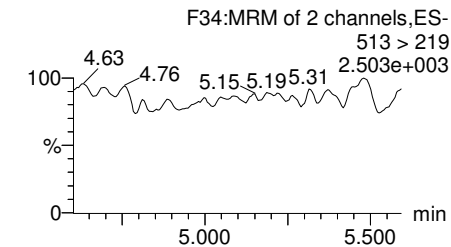
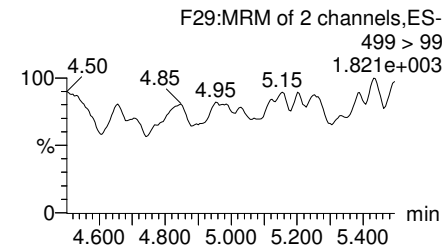
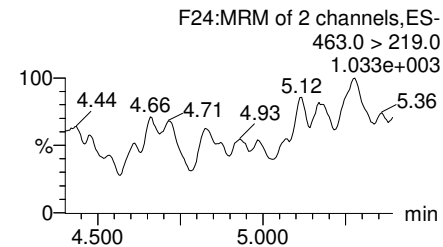
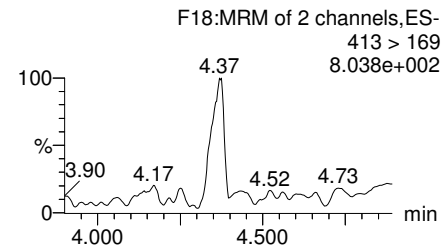
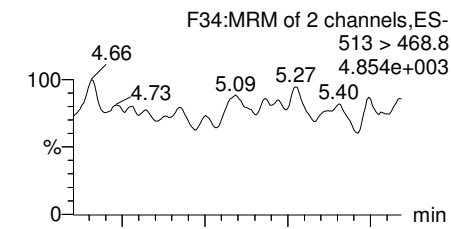
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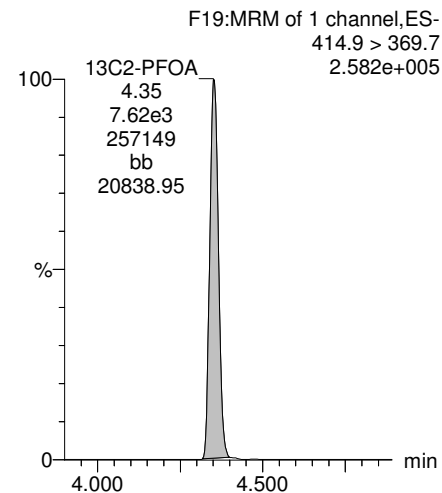
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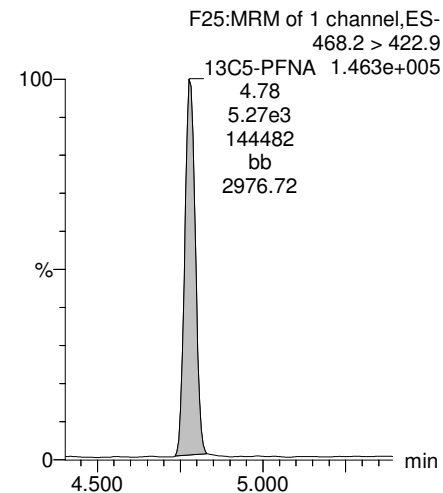
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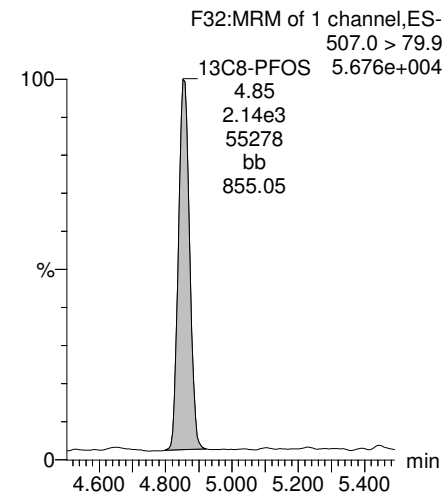
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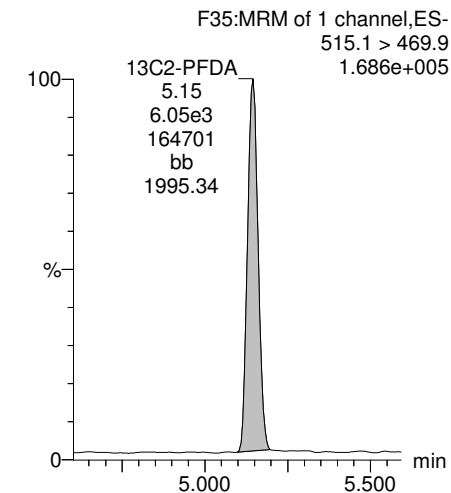
13C5-PFNA



13C8-PFOS



13C2-PFDA

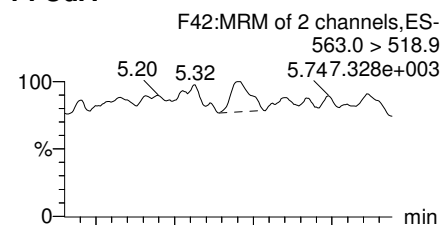


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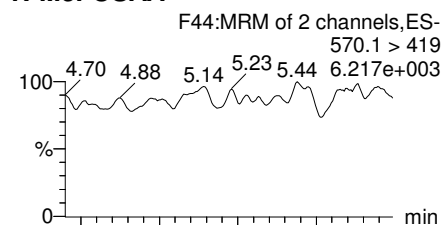
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Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

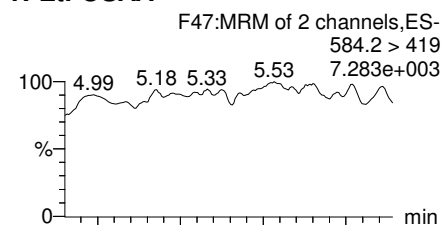
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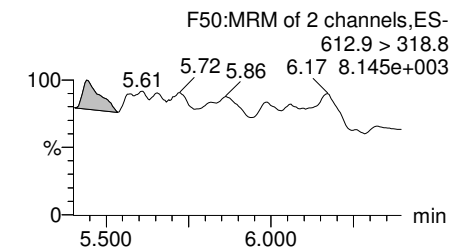
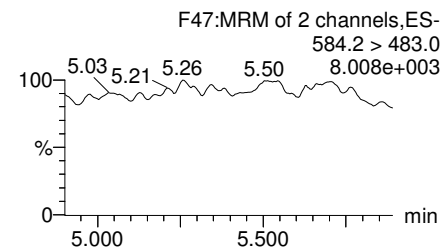
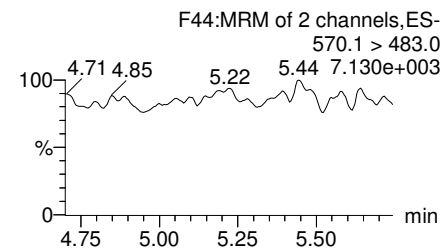
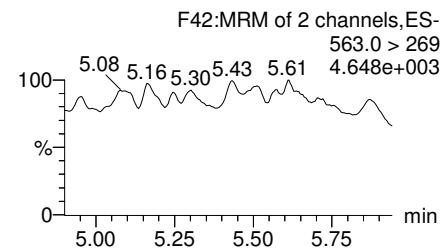
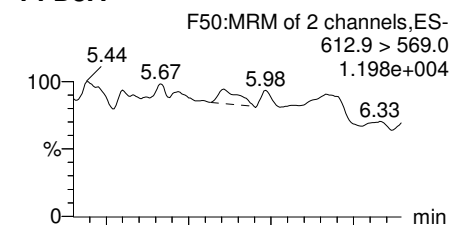
N-MeFOSAA



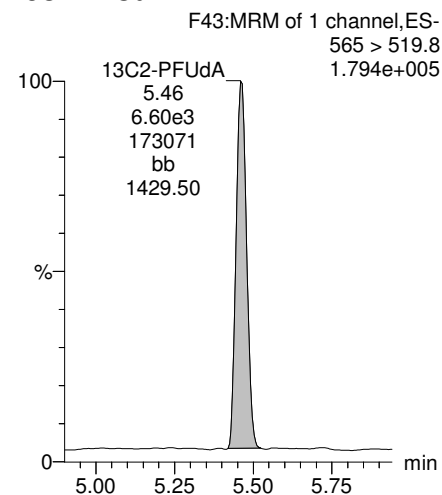
N-EtFOSAA



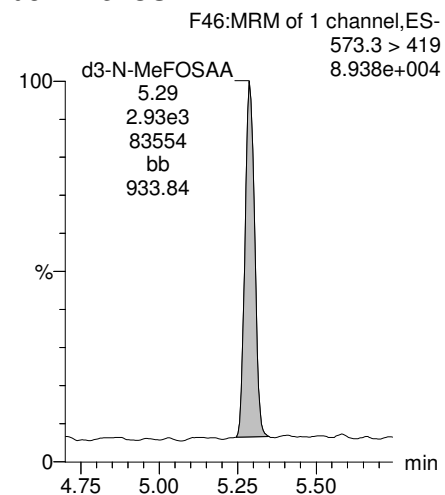
PFDoA



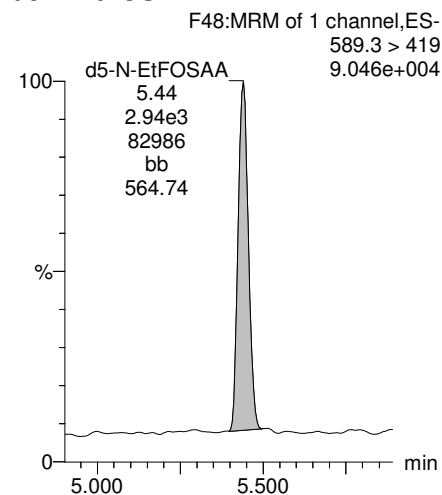
13C2-PFUdA



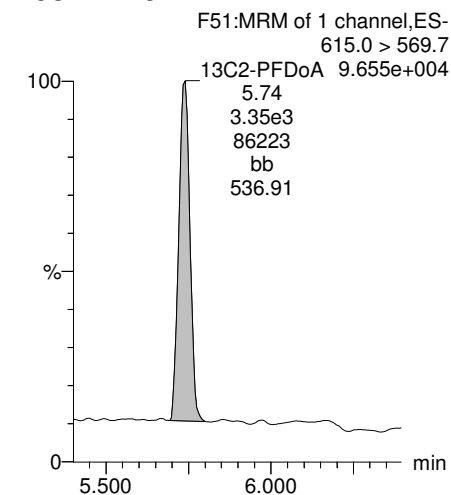
d3-N-MeFOSAA



d5-N-EtFOSAA



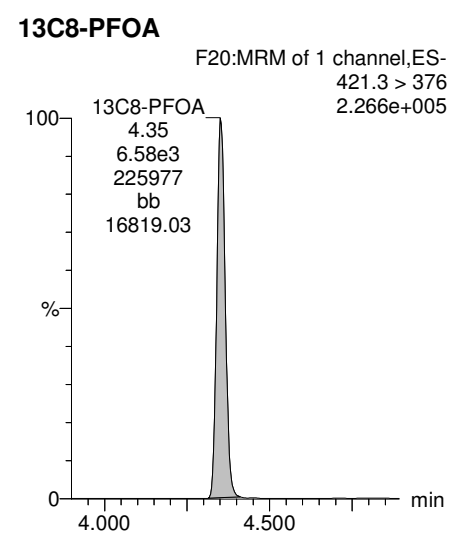
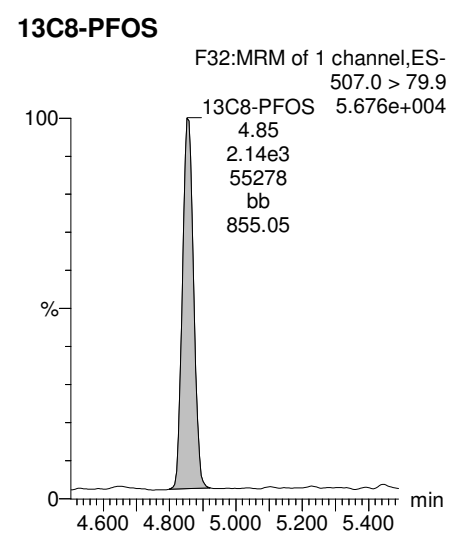
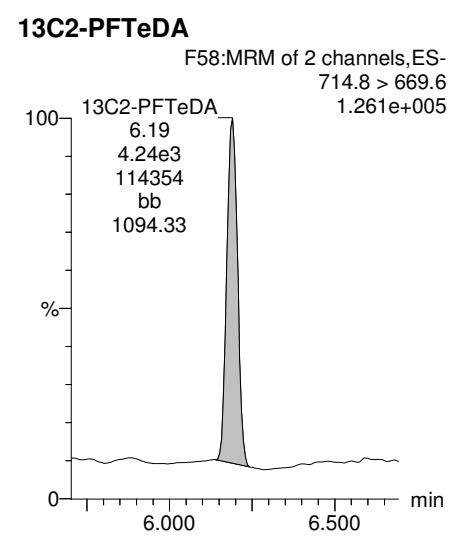
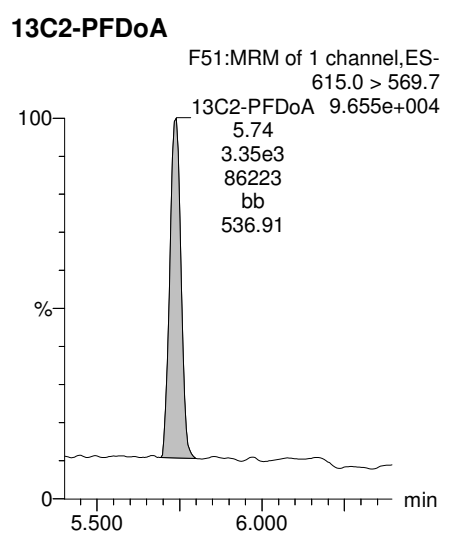
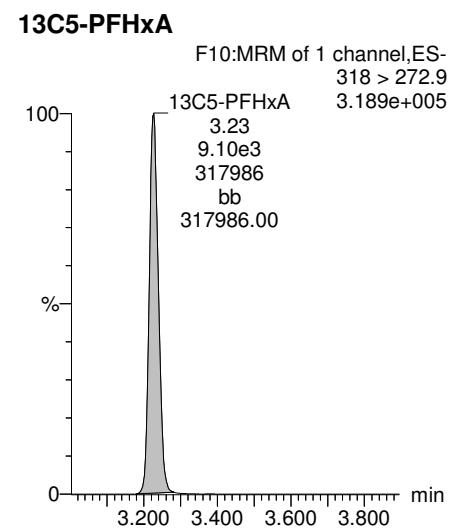
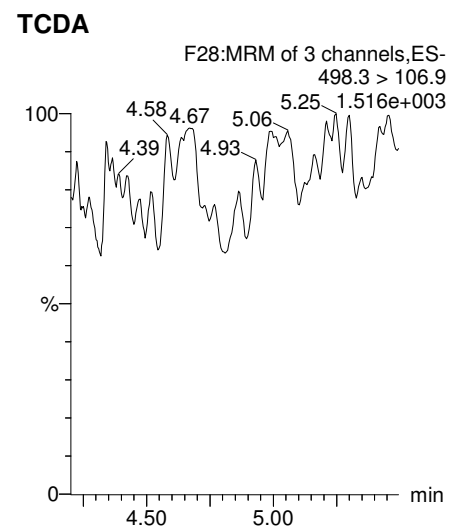
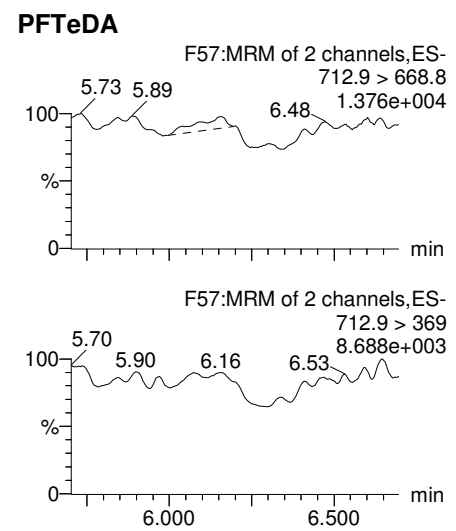
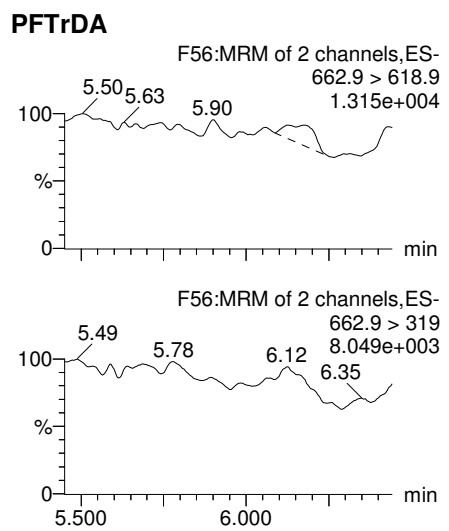
13C2-PFDoA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-26.qld

Last Altered: Wednesday, December 27, 2017 08:29:10 Pacific Standard Time
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Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

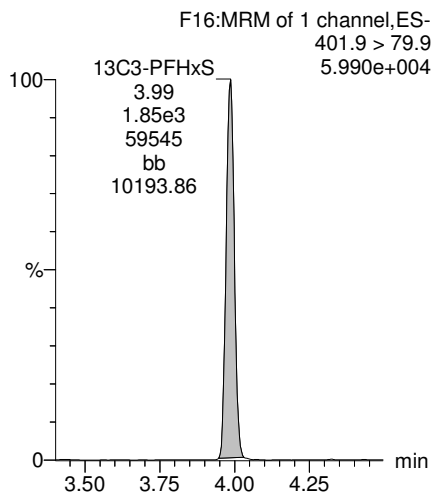


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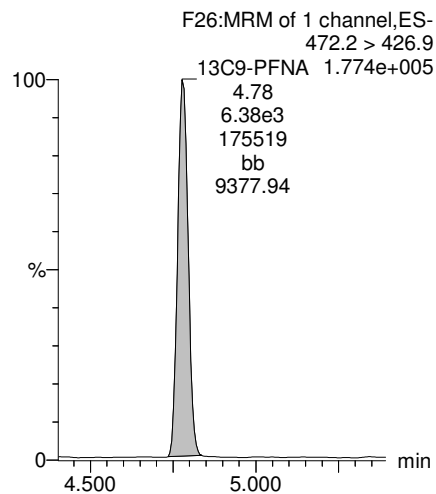
Last Altered: Wednesday, December 27, 2017 08:29:10 Pacific Standard Time
Printed: Wednesday, December 27, 2017 08:30:01 Pacific Standard Time

Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

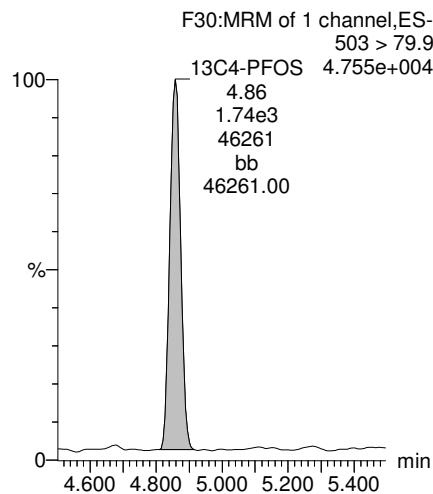
13C3-PFHxS



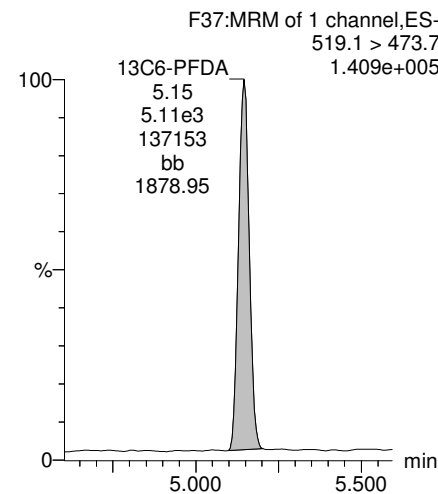
13C9-PFNA



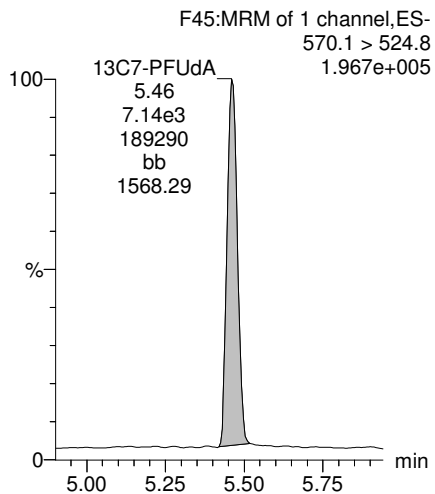
13C4-PFOS



13C6-PFDA



13C7-PFUDa



**INJECTION INTERNAL STANDARD (IIS) AREAS,
INSTRUMENT BLANKS (IB)
AND
CONTINUING CALIBRATION VERIFICATIONS (CCV)**

Dataset: U:\Q4.PRO\results\171223M1\171223M1-IIS AREAS.qld

Last Altered: Tuesday, December 26, 2017 14:04:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:18:40 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_RS-12-21-17.mdb 21 Dec 2017 14:40:41

Calibration: 26 Dec 2017 14:04:27

Name: 171223M1_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171223M1-6 PFC CS3 17L1207	9.34e3	100.0	NO
2	2 13C5-PFHxA	ST171223M1-6 PFC CS3 17L1207	1.31e4	100.0	NO
3	3 13C3-PFHxS	ST171223M1-6 PFC CS3 17L1207	2.54e3	100.0	NO
4	4 13C8-PFOA	ST171223M1-6 PFC CS3 17L1207	1.15e4	100.0	NO
5	5 13C9-PFNA	ST171223M1-6 PFC CS3 17L1207	1.10e4	100.0	NO
6	6 13C4-PFOS	ST171223M1-6 PFC CS3 17L1207	3.10e3	100.0	NO
7	7 13C6-PFDA	ST171223M1-6 PFC CS3 17L1207	7.32e3	100.0	NO
8	8 13C7-PFUDa	ST171223M1-6 PFC CS3 17L1207	9.85e3	100.0	NO

Name: 171223M1_15, Date: 23-Dec-2017, Time: 15:33:35, ID: B7L0138-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0138-BS1 OPR 0.125	7.41e3	79.4	NO
2	2 13C5-PFHxA	B7L0138-BS1 OPR 0.125	1.00e4	76.5	NO
3	3 13C3-PFHxS	B7L0138-BS1 OPR 0.125	2.27e3	89.2	NO
4	4 13C8-PFOA	B7L0138-BS1 OPR 0.125	8.23e3	71.8	NO
5	5 13C9-PFNA	B7L0138-BS1 OPR 0.125	7.38e3	67.3	NO
6	6 13C4-PFOS	B7L0138-BS1 OPR 0.125	1.97e3	63.6	NO
7	7 13C6-PFDA	B7L0138-BS1 OPR 0.125	5.16e3	70.5	NO
8	8 13C7-PFUDa	B7L0138-BS1 OPR 0.125	7.26e3	73.7	NO

Name: 171223M1_16, Date: 23-Dec-2017, Time: 15:44:45, ID: B7L0138-BSD1 LCSD 0.125, Description: LCSD

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0138-BSD1 LCSD 0.125	7.58e3	81.1	NO
2	2 13C5-PFHxA	B7L0138-BSD1 LCSD 0.125	1.01e4	77.0	NO
3	3 13C3-PFHxS	B7L0138-BSD1 LCSD 0.125	2.46e3	96.9	NO
4	4 13C8-PFOA	B7L0138-BSD1 LCSD 0.125	7.60e3	66.2	NO
5	5 13C9-PFNA	B7L0138-BSD1 LCSD 0.125	7.32e3	66.8	NO
6	6 13C4-PFOS	B7L0138-BSD1 LCSD 0.125	2.46e3	79.3	NO
7	7 13C6-PFDA	B7L0138-BSD1 LCSD 0.125	6.37e3	87.0	NO
8	8 13C7-PFUDa	B7L0138-BSD1 LCSD 0.125	7.56e3	76.8	NO

Name: 171223M1_17, Date: 23-Dec-2017, Time: 15:55:56, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	2.71e1	0.2	NO
6	6 13C4-PFOS	IPA	2.19e1	0.7	NO
7	7 13C6-PFDA	IPA	5.27e1	0.7	NO
8	8 13C7-PFUDa	IPA	8.34e1	0.8	NO

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Name: 171223M1_18, Date: 23-Dec-2017, Time: 16:07:07, ID: B7L0138-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0138-BLK1 Method Blank 0.125	8.07e3	86.4	NO
2	2 13C5-PFHxA	B7L0138-BLK1 Method Blank 0.125	1.15e4	88.0	NO
3	3 13C3-PFHxS	B7L0138-BLK1 Method Blank 0.125	2.47e3	97.2	NO
4	4 13C8-PFOA	B7L0138-BLK1 Method Blank 0.125	8.19e3	71.4	NO
5	5 13C9-PFNA	B7L0138-BLK1 Method Blank 0.125	8.76e3	79.8	NO
6	6 13C4-PFOS	B7L0138-BLK1 Method Blank 0.125	2.40e3	77.5	NO
7	7 13C6-PFDA	B7L0138-BLK1 Method Blank 0.125	6.11e3	83.5	NO
8	8 13C7-PFUdA	B7L0138-BLK1 Method Blank 0.125	8.07e3	81.9	NO

Name: 171223M1_19, Date: 23-Dec-2017, Time: 16:18:17, ID: 1701882-01 WI-A06-6-I-01-1217 0.11568, Description: WI-A06-6-I-01-1217

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701882-01 WI-A06-6-I-01-1217 0.11568	7.24e3	77.5	NO
2	2 13C5-PFHxA	1701882-01 WI-A06-6-I-01-1217 0.11568	9.32e3	71.1	NO
3	3 13C3-PFHxS	1701882-01 WI-A06-6-I-01-1217 0.11568	2.45e3	96.3	NO
4	4 13C8-PFOA	1701882-01 WI-A06-6-I-01-1217 0.11568	6.80e3	59.3	NO
5	5 13C9-PFNA	1701882-01 WI-A06-6-I-01-1217 0.11568	7.97e3	72.6	NO
6	6 13C4-PFOS	1701882-01 WI-A06-6-I-01-1217 0.11568	2.30e3	74.1	NO
7	7 13C6-PFDA	1701882-01 WI-A06-6-I-01-1217 0.11568	5.53e3	75.6	NO
8	8 13C7-PFUdA	1701882-01 WI-A06-6-I-01-1217 0.11568	6.36e3	64.6	NO

Name: 171223M1_20, Date: 23-Dec-2017, Time: 16:29:28, ID: 1701882-03 WI-A06-EB01-120517 0.11513, Description: WI-A06-EB01-120517

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701882-03 WI-A06-EB01-120517 0.11...	6.85e3	73.3	NO
2	2 13C5-PFHxA	1701882-03 WI-A06-EB01-120517 0.11...	9.85e3	75.1	NO
3	3 13C3-PFHxS	1701882-03 WI-A06-EB01-120517 0.11...	2.05e3	80.6	NO
4	4 13C8-PFOA	1701882-03 WI-A06-EB01-120517 0.11...	7.09e3	61.9	NO
5	5 13C9-PFNA	1701882-03 WI-A06-EB01-120517 0.11...	6.28e3	57.2	NO
6	6 13C4-PFOS	1701882-03 WI-A06-EB01-120517 0.11...	2.60e3	83.7	NO
7	7 13C6-PFDA	1701882-03 WI-A06-EB01-120517 0.11...	6.17e3	84.4	NO
8	8 13C7-PFUdA	1701882-03 WI-A06-EB01-120517 0.11...	6.04e3	61.3	NO

Name: 171223M1_21, Date: 23-Dec-2017, Time: 16:40:39, ID: 1701882-05 WI-A06-EB02-120517 0.11852, Description: WI-A06-EB02-120517

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701882-05 WI-A06-EB02-120517 0.11...	7.19e3	77.0	NO
2	2 13C5-PFHxA	1701882-05 WI-A06-EB02-120517 0.11...	9.50e3	72.5	NO
3	3 13C3-PFHxS	1701882-05 WI-A06-EB02-120517 0.11...	1.90e3	74.6	NO
4	4 13C8-PFOA	1701882-05 WI-A06-EB02-120517 0.11...	6.62e3	57.7	NO
5	5 13C9-PFNA	1701882-05 WI-A06-EB02-120517 0.11...	7.59e3	69.2	NO
6	6 13C4-PFOS	1701882-05 WI-A06-EB02-120517 0.11...	2.56e3	82.6	NO
7	7 13C6-PFDA	1701882-05 WI-A06-EB02-120517 0.11...	6.64e3	90.7	NO
8	8 13C7-PFUdA	1701882-05 WI-A06-EB02-120517 0.11...	8.50e3	86.3	NO

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Name: 171223M1_22, Date: 23-Dec-2017, Time: 16:51:50, ID: 1701882-07 WI-A06-EFF01-1217 0.11544,
Description: WI-A06-EFF01-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-07 WI-A06-EFF01-1217 0.115...	6.80e3	72.8	NO
2	2	13C5-PFHxA	1701882-07 WI-A06-EFF01-1217 0.115...	9.70e3	74.0	NO
3	3	13C3-PFHxS	1701882-07 WI-A06-EFF01-1217 0.115...	1.89e3	74.4	NO
4	4	13C8-PFOA	1701882-07 WI-A06-EFF01-1217 0.115...	6.59e3	57.5	NO
5	5	13C9-PFNA	1701882-07 WI-A06-EFF01-1217 0.115...	5.67e3	51.7	NO
6	6	13C4-PFOS	1701882-07 WI-A06-EFF01-1217 0.115...	2.00e3	64.5	NO
7	7	13C6-PFDA	1701882-07 WI-A06-EFF01-1217 0.115...	6.23e3	85.2	NO
8	8	13C7-PFUdA	1701882-07 WI-A06-EFF01-1217 0.115...	6.60e3	67.1	NO

Name: 171223M1_23, Date: 23-Dec-2017, Time: 17:03:00, ID: 1701882-09 WI-A06-EFF01P-1217 0.11592,
Description: WI-A06-EFF01P-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-09 WI-A06-EFF01P-1217 0.11...	6.85e3	73.3	NO
2	2	13C5-PFHxA	1701882-09 WI-A06-EFF01P-1217 0.11...	1.02e4	77.6	NO
3	3	13C3-PFHxS	1701882-09 WI-A06-EFF01P-1217 0.11...	1.94e3	76.4	NO
4	4	13C8-PFOA	1701882-09 WI-A06-EFF01P-1217 0.11...	6.40e3	55.8	NO
5	5	13C9-PFNA	1701882-09 WI-A06-EFF01P-1217 0.11...	8.12e3	74.0	NO
6	6	13C4-PFOS	1701882-09 WI-A06-EFF01P-1217 0.11...	2.13e3	68.8	NO
7	7	13C6-PFDA	1701882-09 WI-A06-EFF01P-1217 0.11...	7.22e3	98.7	NO
8	8	13C7-PFUdA	1701882-09 WI-A06-EFF01P-1217 0.11...	6.59e3	66.9	NO

Name: 171223M1_24, Date: 23-Dec-2017, Time: 17:14:11, ID: 1701882-11 WI-A06-INF01-1217 0.1146,
Description: WI-A06-INF01-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-11 WI-A06-INF01-1217 0.1146	6.47e3	69.3	NO
2	2	13C5-PFHxA	1701882-11 WI-A06-INF01-1217 0.1146	9.51e3	72.5	NO
3	3	13C3-PFHxS	1701882-11 WI-A06-INF01-1217 0.1146	1.94e3	76.1	NO
4	4	13C8-PFOA	1701882-11 WI-A06-INF01-1217 0.1146	6.66e3	58.1	NO
5	5	13C9-PFNA	1701882-11 WI-A06-INF01-1217 0.1146	7.98e3	72.8	NO
6	6	13C4-PFOS	1701882-11 WI-A06-INF01-1217 0.1146	2.23e3	72.0	NO
7	7	13C6-PFDA	1701882-11 WI-A06-INF01-1217 0.1146	4.85e3	66.3	NO
8	8	13C7-PFUdA	1701882-11 WI-A06-INF01-1217 0.1146	6.33e3	64.3	NO

Name: 171223M1_25, Date: 23-Dec-2017, Time: 17:25:22, ID: 1701882-13 WI-A06-P-4-1217 0.1188, Description: WI-A06-P-4-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-13 WI-A06-P-4-1217 0.1188	6.53e3	69.9	NO
2	2	13C5-PFHxA	1701882-13 WI-A06-P-4-1217 0.1188	8.90e3	67.9	NO
3	3	13C3-PFHxS	1701882-13 WI-A06-P-4-1217 0.1188	1.92e3	75.3	NO
4	4	13C8-PFOA	1701882-13 WI-A06-P-4-1217 0.1188	5.74e3	50.1	NO
5	5	13C9-PFNA	1701882-13 WI-A06-P-4-1217 0.1188	7.34e3	66.9	NO
6	6	13C4-PFOS	1701882-13 WI-A06-P-4-1217 0.1188	1.92e3	61.8	NO
7	7	13C6-PFDA	1701882-13 WI-A06-P-4-1217 0.1188	4.90e3	67.0	NO
8	8	13C7-PFUdA	1701882-13 WI-A06-P-4-1217 0.1188	7.61e3	77.3	NO

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Name: 171223M1_26, Date: 23-Dec-2017, Time: 17:36:32, ID: 1701882-15 WI-A06-6-I-03-1217 0.10976, Description: WI-A06-6-I-03-1217

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701882-15 WI-A06-6-I-03-1217 0.10976	6.43e3	68.8	NO
2	2 13C5-PFHxA	1701882-15 WI-A06-6-I-03-1217 0.10976	9.10e3	69.4	NO
3	3 13C3-PFHxS	1701882-15 WI-A06-6-I-03-1217 0.10976	1.85e3	72.7	NO
4	4 13C8-PFOA	1701882-15 WI-A06-6-I-03-1217 0.10976	6.58e3	57.4	NO
5	5 13C9-PFNA	1701882-15 WI-A06-6-I-03-1217 0.10976	6.38e3	58.2	NO
6	6 13C4-PFOS	1701882-15 WI-A06-6-I-03-1217 0.10976	1.74e3	56.3	NO
7	7 13C6-PFDA	1701882-15 WI-A06-6-I-03-1217 0.10976	5.11e3	69.9	NO
8	8 13C7-PFUdA	1701882-15 WI-A06-6-I-03-1217 0.10976	7.14e3	72.5	NO

Name: 171223M1_27, Date: 23-Dec-2017, Time: 17:47:43, ID: 1701819-10RE1 REEPDW017FRB 0.11771, Description: REEPDW017FRB

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701819-10RE1 REEPDW017FRB 0.1...	8.47e3	90.7	NO
2	2 13C5-PFHxA	1701819-10RE1 REEPDW017FRB 0.1...	1.17e4	89.5	NO
3	3 13C3-PFHxS	1701819-10RE1 REEPDW017FRB 0.1...	2.69e3	105.8	NO
4	4 13C8-PFOA	1701819-10RE1 REEPDW017FRB 0.1...	7.56e3	65.9	NO
5	5 13C9-PFNA	1701819-10RE1 REEPDW017FRB 0.1...	1.01e4	91.9	NO
6	6 13C4-PFOS	1701819-10RE1 REEPDW017FRB 0.1...	2.80e3	90.5	NO
7	7 13C6-PFDA	1701819-10RE1 REEPDW017FRB 0.1...	8.31e3	113.6	NO
8	8 13C7-PFUdA	1701819-10RE1 REEPDW017FRB 0.1...	7.80e3	79.2	NO

Name: 171223M1_28, Date: 23-Dec-2017, Time: 17:58:54, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	3.08e1	0.3	NO
6	6 13C4-PFOS	IPA	2.15e1	0.7	NO
7	7 13C6-PFDA	IPA	1.33e1	0.2	NO
8	8 13C7-PFUdA	IPA	7.00e1	0.7	NO

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171223M1-11 PFC CS3 17L1207	1.03e4	109.8	NO
2	2 13C5-PFHxA	ST171223M1-11 PFC CS3 17L1207	1.46e4	111.4	NO
3	3 13C3-PFHxS	ST171223M1-11 PFC CS3 17L1207	3.02e3	118.6	NO
4	4 13C8-PFOA	ST171223M1-11 PFC CS3 17L1207	1.06e4	92.4	NO
5	5 13C9-PFNA	ST171223M1-11 PFC CS3 17L1207	1.14e4	104.2	NO
6	6 13C4-PFOS	ST171223M1-11 PFC CS3 17L1207	3.24e3	104.7	NO
7	7 13C6-PFDA	ST171223M1-11 PFC CS3 17L1207	9.68e3	132.3	NO
8	8 13C7-PFUdA	ST171223M1-11 PFC CS3 17L1207	1.26e4	127.9	NO

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Name: 171223M1_30, Date: 23-Dec-2017, Time: 18:21:15, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA	1.77e1	0.6	NO
7	7 13C6-PFDA	IPA	3.52e1	0.5	NO
8	8 13C7-PFUdA	IPA			NO

Name: 171223M1_31, Date: 23-Dec-2017, Time: 18:32:26, ID: B7L0075-BS1 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0075-BS1 OPR 0.125	7.27e3	77.9	NO
2	2 13C5-PFHxA	B7L0075-BS1 OPR 0.125	1.17e4	89.0	NO
3	3 13C3-PFHxS	B7L0075-BS1 OPR 0.125	2.48e3	97.5	NO
4	4 13C8-PFOA	B7L0075-BS1 OPR 0.125	7.96e3	69.4	NO
5	5 13C9-PFNA	B7L0075-BS1 OPR 0.125	9.74e3	88.8	NO
6	6 13C4-PFOS	B7L0075-BS1 OPR 0.125	2.64e3	85.1	NO
7	7 13C6-PFDA	B7L0075-BS1 OPR 0.125	7.58e3	103.6	NO
8	8 13C7-PFUdA	B7L0075-BS1 OPR 0.125	7.58e3	77.0	NO

Name: 171223M1_32, Date: 23-Dec-2017, Time: 18:43:36, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	8.17e0	0.1	YES
6	6 13C4-PFOS	IPA	5.21e1	1.7	YES
7	7 13C6-PFDA	IPA	3.36e1	0.5	YES
8	8 13C7-PFUdA	IPA	3.20e1	0.3	YES

Name: 171223M1_33, Date: 23-Dec-2017, Time: 18:54:48, ID: B7L0075-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0075-BLK1 Method Blank 0.125	8.62e3	92.3	NO
2	2 13C5-PFHxA	B7L0075-BLK1 Method Blank 0.125	1.17e4	88.9	NO
3	3 13C3-PFHxS	B7L0075-BLK1 Method Blank 0.125	2.40e3	94.3	NO
4	4 13C8-PFOA	B7L0075-BLK1 Method Blank 0.125	8.49e3	74.0	NO
5	5 13C9-PFNA	B7L0075-BLK1 Method Blank 0.125	1.14e4	104.0	NO
6	6 13C4-PFOS	B7L0075-BLK1 Method Blank 0.125	3.10e3	99.9	NO
7	7 13C6-PFDA	B7L0075-BLK1 Method Blank 0.125	7.71e3	105.3	NO
8	8 13C7-PFUdA	B7L0075-BLK1 Method Blank 0.125	9.87e3	100.3	NO

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Name: 171223M1_34, Date: 23-Dec-2017, Time: 19:05:58, ID: 1701821-01 WT1711291630MK 0.052, Description: WT1711291630MK

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-01 WT1711291630MK 0.052	6.98e3	74.7	NO
2	2 13C5-PFHxA	1701821-01 WT1711291630MK 0.052	1.02e4	78.1	NO
3	3 13C3-PFHxS	1701821-01 WT1711291630MK 0.052	2.61e3	102.7	NO
4	4 13C8-PFOA	1701821-01 WT1711291630MK 0.052	7.44e3	64.9	NO
5	5 13C9-PFNA	1701821-01 WT1711291630MK 0.052	9.22e3	84.0	NO
6	6 13C4-PFOS	1701821-01 WT1711291630MK 0.052	2.95e3	95.1	NO
7	7 13C6-PFDA	1701821-01 WT1711291630MK 0.052	9.11e3	124.6	NO
8	8 13C7-PFUdA	1701821-01 WT1711291630MK 0.052	8.91e3	90.5	NO

Name: 171223M1_35, Date: 23-Dec-2017, Time: 19:17:09, ID: 1701821-02 WT1711291655MK 0.05223, Description: WT1711291655MK

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-02 WT1711291655MK 0.05223	7.01e3	75.1	NO
2	2 13C5-PFHxA	1701821-02 WT1711291655MK 0.05223	1.10e4	83.6	NO
3	3 13C3-PFHxS	1701821-02 WT1711291655MK 0.05223	2.84e3	111.7	NO
4	4 13C8-PFOA	1701821-02 WT1711291655MK 0.05223	7.77e3	67.8	NO
5	5 13C9-PFNA	1701821-02 WT1711291655MK 0.05223	8.18e3	74.6	NO
6	6 13C4-PFOS	1701821-02 WT1711291655MK 0.05223	2.89e3	93.1	NO
7	7 13C6-PFDA	1701821-02 WT1711291655MK 0.05223	7.19e3	98.3	NO
8	8 13C7-PFUdA	1701821-02 WT1711291655MK 0.05223	8.38e3	85.1	NO

Name: 171223M1_36, Date: 23-Dec-2017, Time: 19:28:20, ID: 1701821-03 WT1711291735MK 0.0543, Description: WT1711291735MK

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-03 WT1711291735MK 0.0543	8.29e3	88.7	NO
2	2 13C5-PFHxA	1701821-03 WT1711291735MK 0.0543	1.23e4	93.9	NO
3	3 13C3-PFHxS	1701821-03 WT1711291735MK 0.0543	2.62e3	103.2	NO
4	4 13C8-PFOA	1701821-03 WT1711291735MK 0.0543	9.00e3	78.5	NO
5	5 13C9-PFNA	1701821-03 WT1711291735MK 0.0543	1.12e4	102.2	NO
6	6 13C4-PFOS	1701821-03 WT1711291735MK 0.0543	3.29e3	106.1	NO
7	7 13C6-PFDA	1701821-03 WT1711291735MK 0.0543	7.63e3	104.2	NO
8	8 13C7-PFUdA	1701821-03 WT1711291735MK 0.0543	7.34e3	74.5	NO

Name: 171223M1_37, Date: 23-Dec-2017, Time: 19:39:30, ID: 1701821-04 WT1711291825MK 0.05373, Description: WT1711291825MK

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-04 WT1711291825MK 0.05373	7.44e3	79.7	NO
2	2 13C5-PFHxA	1701821-04 WT1711291825MK 0.05373	1.13e4	85.8	NO
3	3 13C3-PFHxS	1701821-04 WT1711291825MK 0.05373	2.55e3	100.4	NO
4	4 13C8-PFOA	1701821-04 WT1711291825MK 0.05373	8.02e3	69.9	NO
5	5 13C9-PFNA	1701821-04 WT1711291825MK 0.05373	8.45e3	77.1	NO
6	6 13C4-PFOS	1701821-04 WT1711291825MK 0.05373	3.00e3	96.7	NO
7	7 13C6-PFDA	1701821-04 WT1711291825MK 0.05373	7.84e3	107.2	NO
8	8 13C7-PFUdA	1701821-04 WT1711291825MK 0.05373	8.55e3	86.8	NO

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Name: 171223M1_38, Date: 23-Dec-2017, Time: 19:50:41, ID: 1701821-05 WT1711300810MK 0.05263, Description: WT1711300810MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-05 WT1711300810MK 0.05263	8.22e3	88.0	NO
2	2 13C5-PFHxA	1701821-05 WT1711300810MK 0.05263	1.26e4	96.4	NO
3	3 13C3-PFHxS	1701821-05 WT1711300810MK 0.05263	2.74e3	107.9	NO
4	4 13C8-PFOA	1701821-05 WT1711300810MK 0.05263	8.55e3	74.5	NO
5	5 13C9-PFNA	1701821-05 WT1711300810MK 0.05263	8.65e3	78.9	NO
6	6 13C4-PFOS	1701821-05 WT1711300810MK 0.05263	2.96e3	95.5	NO
7	7 13C6-PFDA	1701821-05 WT1711300810MK 0.05263	7.51e3	102.7	NO
8	8 13C7-PFUDa	1701821-05 WT1711300810MK 0.05263	1.18e4	119.6	NO

Name: 171223M1_39, Date: 23-Dec-2017, Time: 20:01:51, ID: 1701821-06 WT1711300835MK 0.05051, Description: WT1711300835MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-06 WT1711300835MK 0.05051	8.10e3	86.7	NO
2	2 13C5-PFHxA	1701821-06 WT1711300835MK 0.05051	1.13e4	85.8	NO
3	3 13C3-PFHxS	1701821-06 WT1711300835MK 0.05051	2.83e3	111.3	NO
4	4 13C8-PFOA	1701821-06 WT1711300835MK 0.05051	7.84e3	68.4	NO
5	5 13C9-PFNA	1701821-06 WT1711300835MK 0.05051	8.95e3	81.6	NO
6	6 13C4-PFOS	1701821-06 WT1711300835MK 0.05051	3.48e3	112.3	NO
7	7 13C6-PFDA	1701821-06 WT1711300835MK 0.05051	8.44e3	115.3	NO
8	8 13C7-PFUDa	1701821-06 WT1711300835MK 0.05051	9.53e3	96.8	NO

Name: 171223M1_40, Date: 23-Dec-2017, Time: 20:13:02, ID: 1701821-07 WT1711300905MK 0.05189, Description: WT1711300905MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-07 WT1711300905MK 0.05189	7.75e3	82.9	NO
2	2 13C5-PFHxA	1701821-07 WT1711300905MK 0.05189	1.16e4	88.7	NO
3	3 13C3-PFHxS	1701821-07 WT1711300905MK 0.05189	2.48e3	97.4	NO
4	4 13C8-PFOA	1701821-07 WT1711300905MK 0.05189	7.28e3	63.5	NO
5	5 13C9-PFNA	1701821-07 WT1711300905MK 0.05189	7.79e3	71.0	NO
6	6 13C4-PFOS	1701821-07 WT1711300905MK 0.05189	2.80e3	90.3	NO
7	7 13C6-PFDA	1701821-07 WT1711300905MK 0.05189	8.57e3	117.1	NO
8	8 13C7-PFUDa	1701821-07 WT1711300905MK 0.05189	8.78e3	89.2	NO

Name: 171223M1_41, Date: 23-Dec-2017, Time: 20:24:13, ID: 1701821-08 WT1711300925MK 0.05317, Description: WT1711300925MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-08 WT1711300925MK 0.05317	8.59e3	91.9	NO
2	2 13C5-PFHxA	1701821-08 WT1711300925MK 0.05317	1.21e4	92.0	NO
3	3 13C3-PFHxS	1701821-08 WT1711300925MK 0.05317	2.51e3	98.5	NO
4	4 13C8-PFOA	1701821-08 WT1711300925MK 0.05317	8.22e3	71.7	NO
5	5 13C9-PFNA	1701821-08 WT1711300925MK 0.05317	8.77e3	80.0	NO
6	6 13C4-PFOS	1701821-08 WT1711300925MK 0.05317	2.41e3	77.8	NO
7	7 13C6-PFDA	1701821-08 WT1711300925MK 0.05317	7.36e3	100.6	NO
8	8 13C7-PFUDa	1701821-08 WT1711300925MK 0.05317	9.08e3	92.2	NO

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Name: 171223M1_42, Date: 23-Dec-2017, Time: 20:35:24, ID: 1701821-09 WT1711300940MK 0.05397, Description: WT1711300940MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-09 WT1711300940MK 0.05397	8.70e3	93.2	NO
2	2 13C5-PFHxA	1701821-09 WT1711300940MK 0.05397	1.22e4	92.7	NO
3	3 13C3-PFHxS	1701821-09 WT1711300940MK 0.05397	2.31e3	91.0	NO
4	4 13C8-PFOA	1701821-09 WT1711300940MK 0.05397	8.77e3	76.5	NO
5	5 13C9-PFNA	1701821-09 WT1711300940MK 0.05397	8.39e3	76.5	NO
6	6 13C4-PFOS	1701821-09 WT1711300940MK 0.05397	2.84e3	91.7	NO
7	7 13C6-PFDA	1701821-09 WT1711300940MK 0.05397	9.18e3	125.5	NO
8	8 13C7-PFUdA	1701821-09 WT1711300940MK 0.05397	7.51e3	76.2	NO

Name: 171223M1_43, Date: 23-Dec-2017, Time: 20:46:34, ID: 1701821-10 WT1711300955MK 0.05336, Description: WT1711300955MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-10 WT1711300955MK 0.05336	8.82e3	94.4	NO
2	2 13C5-PFHxA	1701821-10 WT1711300955MK 0.05336	1.24e4	94.5	NO
3	3 13C3-PFHxS	1701821-10 WT1711300955MK 0.05336	2.57e3	100.9	NO
4	4 13C8-PFOA	1701821-10 WT1711300955MK 0.05336	8.13e3	70.9	NO
5	5 13C9-PFNA	1701821-10 WT1711300955MK 0.05336	8.88e3	80.9	NO
6	6 13C4-PFOS	1701821-10 WT1711300955MK 0.05336	2.74e3	88.4	NO
7	7 13C6-PFDA	1701821-10 WT1711300955MK 0.05336	8.18e3	111.8	NO
8	8 13C7-PFUdA	1701821-10 WT1711300955MK 0.05336	9.36e3	95.0	NO

Name: 171223M1_44, Date: 23-Dec-2017, Time: 20:57:45, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	2.17e1	0.2	NO
6	6 13C4-PFOS	IPA	2.63e1	0.8	NO
7	7 13C6-PFDA	IPA	1.92e1	0.3	NO
8	8 13C7-PFUdA	IPA	8.42e1	0.9	NO

Name: 171223M1_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171223M1-12 PFC CS3 17L1207	1.10e4	117.4	NO
2	2 13C5-PFHxA	ST171223M1-12 PFC CS3 17L1207	1.68e4	128.2	NO
3	3 13C3-PFHxS	ST171223M1-12 PFC CS3 17L1207	2.98e3	117.2	NO
4	4 13C8-PFOA	ST171223M1-12 PFC CS3 17L1207	1.14e4	99.2	NO
5	5 13C9-PFNA	ST171223M1-12 PFC CS3 17L1207	1.18e4	107.6	NO
6	6 13C4-PFOS	ST171223M1-12 PFC CS3 17L1207	3.20e3	103.2	NO
7	7 13C6-PFDA	ST171223M1-12 PFC CS3 17L1207	1.03e4	141.4	NO
8	8 13C7-PFUdA	ST171223M1-12 PFC CS3 17L1207	9.88e3	100.3	NO

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Name: 171223M1_46, Date: 23-Dec-2017, Time: 21:20:06, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	1.82e1	0.2	NO
6	6 13C4-PFOS	IPA	7.12e1	2.3	NO
7	7 13C6-PFDA	IPA	4.00e1	0.5	NO
8	8 13C7-PFUdA	IPA	9.07e1	0.9	NO

Name: 171223M1_47, Date: 23-Dec-2017, Time: 21:31:17, ID: 1701821-11 WT1711301020MK 0.05401, Description: WT1711301020MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-11 WT1711301020MK 0.05401	9.63e3	103.1	NO
2	2 13C5-PFHxA	1701821-11 WT1711301020MK 0.05401	1.45e4	110.8	NO
3	3 13C3-PFHxS	1701821-11 WT1711301020MK 0.05401	3.01e3	118.2	NO
4	4 13C8-PFOA	1701821-11 WT1711301020MK 0.05401	1.05e4	91.3	NO
5	5 13C9-PFNA	1701821-11 WT1711301020MK 0.05401	9.18e3	83.7	NO
6	6 13C4-PFOS	1701821-11 WT1711301020MK 0.05401	2.91e3	94.0	NO
7	7 13C6-PFDA	1701821-11 WT1711301020MK 0.05401	7.40e3	101.1	NO
8	8 13C7-PFUdA	1701821-11 WT1711301020MK 0.05401	9.81e3	99.6	NO

Name: 171223M1_48, Date: 23-Dec-2017, Time: 21:42:28, ID: 1701821-12 WT1711301035MK 0.05248, Description: WT1711301035MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-12 WT1711301035MK 0.05248	1.01e4	107.6	NO
2	2 13C5-PFHxA	1701821-12 WT1711301035MK 0.05248	1.37e4	104.4	NO
3	3 13C3-PFHxS	1701821-12 WT1711301035MK 0.05248	3.34e3	131.5	NO
4	4 13C8-PFOA	1701821-12 WT1711301035MK 0.05248	1.03e4	90.2	NO
5	5 13C9-PFNA	1701821-12 WT1711301035MK 0.05248	1.33e4	121.3	NO
6	6 13C4-PFOS	1701821-12 WT1711301035MK 0.05248	2.88e3	93.1	NO
7	7 13C6-PFDA	1701821-12 WT1711301035MK 0.05248	9.71e3	132.7	NO
8	8 13C7-PFUdA	1701821-12 WT1711301035MK 0.05248	1.01e4	102.7	NO

Name: 171223M1_49, Date: 23-Dec-2017, Time: 21:53:38, ID: 1701821-13 WT1711301055MK 0.05226, Description: WT1711301055MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-13 WT1711301055MK 0.05226	8.48e3	90.8	NO
2	2 13C5-PFHxA	1701821-13 WT1711301055MK 0.05226	1.25e4	95.1	NO
3	3 13C3-PFHxS	1701821-13 WT1711301055MK 0.05226	2.47e3	97.2	NO
4	4 13C8-PFOA	1701821-13 WT1711301055MK 0.05226	8.63e3	75.3	NO
5	5 13C9-PFNA	1701821-13 WT1711301055MK 0.05226	9.35e3	85.3	NO
6	6 13C4-PFOS	1701821-13 WT1711301055MK 0.05226	2.49e3	80.2	NO
7	7 13C6-PFDA	1701821-13 WT1711301055MK 0.05226	8.46e3	115.6	NO
8	8 13C7-PFUdA	1701821-13 WT1711301055MK 0.05226	7.77e3	78.9	NO

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Name: 171223M1_50, Date: 23-Dec-2017, Time: 22:04:49, ID: 1701821-14 WT1711301105MK 0.04991, Description: WT1711301105MK

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701821-14 WT1711301105MK 0.04991	9.35e3	100.1	NO
2	2 13C5-PFHxA	1701821-14 WT1711301105MK 0.04991	1.38e4	105.4	NO
3	3 13C3-PFHxS	1701821-14 WT1711301105MK 0.04991	2.86e3	112.4	NO
4	4 13C8-PFOA	1701821-14 WT1711301105MK 0.04991	8.68e3	75.7	NO
5	5 13C9-PFNA	1701821-14 WT1711301105MK 0.04991	9.96e3	90.8	NO
6	6 13C4-PFOS	1701821-14 WT1711301105MK 0.04991	3.89e3	125.5	NO
7	7 13C6-PFDA	1701821-14 WT1711301105MK 0.04991	7.71e3	105.4	NO
8	8 13C7-PFUDa	1701821-14 WT1711301105MK 0.04991	1.15e4	117.1	NO

Name: 171223M1_51, Date: 23-Dec-2017, Time: 22:16:00, ID: 1701839-01 STWRT-GW-MW113 0.11527, Description: STWRT-GW-MW113

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701839-01 STWRT-GW-MW113 0.11...	7.60e3	81.4	NO
2	2 13C5-PFHxA	1701839-01 STWRT-GW-MW113 0.11...	1.02e4	77.5	NO
3	3 13C3-PFHxS	1701839-01 STWRT-GW-MW113 0.11...	2.19e3	86.1	NO
4	4 13C8-PFOA	1701839-01 STWRT-GW-MW113 0.11...	7.84e3	68.4	NO
5	5 13C9-PFNA	1701839-01 STWRT-GW-MW113 0.11...	8.92e3	81.3	NO
6	6 13C4-PFOS	1701839-01 STWRT-GW-MW113 0.11...	2.02e3	65.3	NO
7	7 13C6-PFDA	1701839-01 STWRT-GW-MW113 0.11...	6.75e3	92.3	NO
8	8 13C7-PFUDa	1701839-01 STWRT-GW-MW113 0.11...	5.47e3	55.6	NO

Name: 171223M1_52, Date: 23-Dec-2017, Time: 22:27:11, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	5.74e0	0.1	YES
5	5 13C9-PFNA	IPA	5.10e0	0.0	YES
6	6 13C4-PFOS	IPA	1.99e1	0.6	YES
7	7 13C6-PFDA	IPA	6.02e1	0.8	YES
8	8 13C7-PFUDa	IPA	4.32e1	0.4	YES

Name: 171223M1_53, Date: 23-Dec-2017, Time: 22:38:22, ID: 1701839-01@5X STWRT-GW-MW113 0.11527, Description: STWRT-GW-MW113

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701839-01@5X STWRT-GW-MW113 ...	1.71e3	18.3	YES
2	2 13C5-PFHxA	1701839-01@5X STWRT-GW-MW113 ...	2.52e3	19.2	YES
3	3 13C3-PFHxS	1701839-01@5X STWRT-GW-MW113 ...	4.93e2	19.4	YES
4	4 13C8-PFOA	1701839-01@5X STWRT-GW-MW113 ...	1.62e3	14.1	YES
5	5 13C9-PFNA	1701839-01@5X STWRT-GW-MW113 ...	1.78e3	16.3	YES
6	6 13C4-PFOS	1701839-01@5X STWRT-GW-MW113 ...	5.17e2	16.7	YES
7	7 13C6-PFDA	1701839-01@5X STWRT-GW-MW113 ...	1.47e3	20.1	YES
8	8 13C7-PFUDa	1701839-01@5X STWRT-GW-MW113 ...	1.60e3	16.2	YES

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Name: 171223M1_54, Date: 23-Dec-2017, Time: 22:49:32, ID: 1701839-12 STWRT-LW-MW02 0.11638, Description: STWRT-LW-MW02

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701839-12 STWRT-LW-MW02 0.11638	4.95e3	53.0	NO
2	2 13C5-PFHxA	1701839-12 STWRT-LW-MW02 0.11638	6.89e3	52.6	NO
3	3 13C3-PFHxS	1701839-12 STWRT-LW-MW02 0.11638	1.56e3	61.2	NO
4	4 13C8-PFOA	1701839-12 STWRT-LW-MW02 0.11638	5.19e3	45.3	YES
5	5 13C9-PFNA	1701839-12 STWRT-LW-MW02 0.11638	4.88e3	44.5	YES
6	6 13C4-PFOS	1701839-12 STWRT-LW-MW02 0.11638	1.65e3	53.3	NO
7	7 13C6-PFDA	1701839-12 STWRT-LW-MW02 0.11638	3.55e3	48.5	YES
8	8 13C7-PFUdA	1701839-12 STWRT-LW-MW02 0.11638	2.97e3	30.2	YES

Name: 171223M1_55, Date: 23-Dec-2017, Time: 23:00:43, ID: 1701761-13 GENBM-10-SB03-14.5-15-111717 1.25, Description: GENBM-10-SB03-14.5-15-111717

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701761-13 GENBM-10-SB03-14.5-15-...	8.76e3	93.8	NO
2	2 13C5-PFHxA	1701761-13 GENBM-10-SB03-14.5-15-...	1.21e4	92.1	NO
3	3 13C3-PFHxS	1701761-13 GENBM-10-SB03-14.5-15-...	2.73e3	107.2	NO
4	4 13C8-PFOA	1701761-13 GENBM-10-SB03-14.5-15-...	8.91e3	77.7	NO
5	5 13C9-PFNA	1701761-13 GENBM-10-SB03-14.5-15-...	8.79e3	80.1	NO
6	6 13C4-PFOS	1701761-13 GENBM-10-SB03-14.5-15-...	1.70e3	54.7	NO
7	7 13C6-PFDA	1701761-13 GENBM-10-SB03-14.5-15-...	4.57e3	62.4	NO
8	8 13C7-PFUdA	1701761-13 GENBM-10-SB03-14.5-15-...	3.91e3	39.7	YES

Name: 171223M1_56, Date: 23-Dec-2017, Time: 23:11:54, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	6.00e0	0.1	YES
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA	6.03e0	0.2	YES
7	7 13C6-PFDA	IPA	6.28e1	0.9	YES
8	8 13C7-PFUdA	IPA	5.54e1	0.6	YES

Name: 171223M1_57, Date: 23-Dec-2017, Time: 23:23:04, ID: B7L0145-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0145-BS1 OPR 0.125	7.74e3	82.9	NO
2	2 13C5-PFHxA	B7L0145-BS1 OPR 0.125	1.11e4	84.7	NO
3	3 13C3-PFHxS	B7L0145-BS1 OPR 0.125	1.81e3	71.2	NO
4	4 13C8-PFOA	B7L0145-BS1 OPR 0.125	8.04e3	70.1	NO
5	5 13C9-PFNA	B7L0145-BS1 OPR 0.125	1.15e4	104.7	NO
6	6 13C4-PFOS	B7L0145-BS1 OPR 0.125	2.09e3	67.6	NO
7	7 13C6-PFDA	B7L0145-BS1 OPR 0.125	7.21e3	98.6	NO
8	8 13C7-PFUdA	B7L0145-BS1 OPR 0.125	8.34e3	84.7	NO

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Name: 171223M1_58, Date: 23-Dec-2017, Time: 23:34:15, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	8.19e0	0.1	YES
6	6 13C4-PFOS	IPA	2.61e1	0.8	YES
7	7 13C6-PFDA	IPA	2.29e1	0.3	YES
8	8 13C7-PFUdA	IPA	4.54e1	0.5	YES

Name: 171223M1_59, Date: 23-Dec-2017, Time: 23:45:25, ID: B7L0145-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0145-BLK1 Method Blank 0.125	8.23e3	88.2	NO
2	2 13C5-PFHxA	B7L0145-BLK1 Method Blank 0.125	1.23e4	93.7	NO
3	3 13C3-PFHxS	B7L0145-BLK1 Method Blank 0.125	2.35e3	92.6	NO
4	4 13C8-PFOA	B7L0145-BLK1 Method Blank 0.125	9.16e3	79.9	NO
5	5 13C9-PFNA	B7L0145-BLK1 Method Blank 0.125	8.59e3	78.4	NO
6	6 13C4-PFOS	B7L0145-BLK1 Method Blank 0.125	2.63e3	85.0	NO
7	7 13C6-PFDA	B7L0145-BLK1 Method Blank 0.125	7.63e3	104.2	NO
8	8 13C7-PFUdA	B7L0145-BLK1 Method Blank 0.125	1.02e4	104.0	NO

Name: 171223M1_60, Date: 23-Dec-2017, Time: 23:56:36, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0145-MS1 Matrix Spike 0.11652	7.63e3	81.7	NO
2	2 13C5-PFHxA	B7L0145-MS1 Matrix Spike 0.11652	1.14e4	87.2	NO
3	3 13C3-PFHxS	B7L0145-MS1 Matrix Spike 0.11652	2.55e3	100.2	NO
4	4 13C8-PFOA	B7L0145-MS1 Matrix Spike 0.11652	8.26e3	72.0	NO
5	5 13C9-PFNA	B7L0145-MS1 Matrix Spike 0.11652	8.23e3	75.1	NO
6	6 13C4-PFOS	B7L0145-MS1 Matrix Spike 0.11652	2.31e3	74.6	NO
7	7 13C6-PFDA	B7L0145-MS1 Matrix Spike 0.11652	6.27e3	85.7	NO
8	8 13C7-PFUdA	B7L0145-MS1 Matrix Spike 0.11652	8.65e3	87.9	NO

Name: 171223M1_61, Date: 24-Dec-2017, Time: 00:07:47, ID: B7L0145-MSD1 Matrix Spike Dup 0.11629, Description: Matrix Spike Dup

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0145-MSD1 Matrix Spike Dup 0.116...	6.79e3	72.7	NO
2	2 13C5-PFHxA	B7L0145-MSD1 Matrix Spike Dup 0.116...	9.07e3	69.1	NO
3	3 13C3-PFHxS	B7L0145-MSD1 Matrix Spike Dup 0.116...	1.96e3	77.2	NO
4	4 13C8-PFOA	B7L0145-MSD1 Matrix Spike Dup 0.116...	6.31e3	55.0	NO
5	5 13C9-PFNA	B7L0145-MSD1 Matrix Spike Dup 0.116...	7.00e3	63.9	NO
6	6 13C4-PFOS	B7L0145-MSD1 Matrix Spike Dup 0.116...	2.49e3	80.3	NO
7	7 13C6-PFDA	B7L0145-MSD1 Matrix Spike Dup 0.116...	5.69e3	77.8	NO
8	8 13C7-PFUdA	B7L0145-MSD1 Matrix Spike Dup 0.116...	7.61e3	77.3	NO

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Name: 171223M1_62, Date: 24-Dec-2017, Time: 00:18:58, ID: 1701911-01 WI-A06-6-S-17-1217 0.11914, Description: WI-A06-6-S-17-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-01 WI-A06-6-S-17-1217 0.119...	7.50e3	80.3	NO
2	2	13C5-PFHxA	1701911-01 WI-A06-6-S-17-1217 0.119...	1.09e4	83.3	NO
3	3	13C3-PFHxS	1701911-01 WI-A06-6-S-17-1217 0.119...	2.30e3	90.4	NO
4	4	13C8-PFOA	1701911-01 WI-A06-6-S-17-1217 0.119...	8.24e3	71.9	NO
5	5	13C9-PFNA	1701911-01 WI-A06-6-S-17-1217 0.119...	9.33e3	85.1	NO
6	6	13C4-PFOS	1701911-01 WI-A06-6-S-17-1217 0.119...	2.55e3	82.4	NO
7	7	13C6-PFDA	1701911-01 WI-A06-6-S-17-1217 0.119...	5.98e3	81.8	NO
8	8	13C7-PFUdA	1701911-01 WI-A06-6-S-17-1217 0.119...	5.48e3	55.6	NO

Name: 171223M1_63, Date: 24-Dec-2017, Time: 00:30:08, ID: 1701911-03 WI-A06-EB03-120617 0.11706, Description: WI-A06-EB03-120617

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-03 WI-A06-EB03-120617 0.11...	6.96e3	74.6	NO
2	2	13C5-PFHxA	1701911-03 WI-A06-EB03-120617 0.11...	1.02e4	77.8	NO
3	3	13C3-PFHxS	1701911-03 WI-A06-EB03-120617 0.11...	2.21e3	86.7	NO
4	4	13C8-PFOA	1701911-03 WI-A06-EB03-120617 0.11...	6.62e3	57.7	NO
5	5	13C9-PFNA	1701911-03 WI-A06-EB03-120617 0.11...	8.22e3	75.0	NO
6	6	13C4-PFOS	1701911-03 WI-A06-EB03-120617 0.11...	2.67e3	86.2	NO
7	7	13C6-PFDA	1701911-03 WI-A06-EB03-120617 0.11...	7.47e3	102.1	NO
8	8	13C7-PFUdA	1701911-03 WI-A06-EB03-120617 0.11...	7.11e3	72.2	NO

Name: 171223M1_64, Date: 24-Dec-2017, Time: 00:41:19, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA	6.66e0	0.1	NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA	3.37e1	1.1	NO
7	7	13C6-PFDA	IPA	1.78e1	0.2	NO
8	8	13C7-PFUdA	IPA	1.60e1	0.2	NO

Name: 171223M1_65, Date: 24-Dec-2017, Time: 00:52:30, ID: ST171223M1-13 PFC CS0 17L1204, Description: PFC CS0 17L1204

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171223M1-13 PFC CS0 17L1204	1.11e4	118.3	NO
2	2	13C5-PFHxA	ST171223M1-13 PFC CS0 17L1204	1.71e4	130.3	NO
3	3	13C3-PFHxS	ST171223M1-13 PFC CS0 17L1204	3.20e3	125.9	NO
4	4	13C8-PFOA	ST171223M1-13 PFC CS0 17L1204	1.09e4	94.7	NO
5	5	13C9-PFNA	ST171223M1-13 PFC CS0 17L1204	1.20e4	109.0	NO
6	6	13C4-PFOS	ST171223M1-13 PFC CS0 17L1204	3.46e3	111.7	NO
7	7	13C6-PFDA	ST171223M1-13 PFC CS0 17L1204	9.80e3	133.9	NO
8	8	13C7-PFUdA	ST171223M1-13 PFC CS0 17L1204	1.26e4	127.7	NO

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Name: 171223M1_66, Date: 24-Dec-2017, Time: 01:03:41, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA	6.08e0	0.0	NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA	1.79e1	0.2	NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA	3.80e1	0.5	NO
8	8	13C7-PFUDa	IPA	4.35e1	0.4	NO

Name: 171223M1_67, Date: 24-Dec-2017, Time: 01:14:51, ID: 1701911-05 WI-A06-6-S-07-1217 0.11644, Description: WI-A06-6-S-07-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-05 WI-A06-6-S-07-1217 0.116...	7.19e3	77.0	NO
2	2	13C5-PFHxA	1701911-05 WI-A06-6-S-07-1217 0.116...	1.08e4	82.6	NO
3	3	13C3-PFHxS	1701911-05 WI-A06-6-S-07-1217 0.116...	2.21e3	86.8	NO
4	4	13C8-PFOA	1701911-05 WI-A06-6-S-07-1217 0.116...	7.42e3	64.7	NO
5	5	13C9-PFNA	1701911-05 WI-A06-6-S-07-1217 0.116...	8.08e3	73.6	NO
6	6	13C4-PFOS	1701911-05 WI-A06-6-S-07-1217 0.116...	2.13e3	68.7	NO
7	7	13C6-PFDA	1701911-05 WI-A06-6-S-07-1217 0.116...	7.36e3	100.6	NO
8	8	13C7-PFUDa	1701911-05 WI-A06-6-S-07-1217 0.116...	7.23e3	73.4	NO

Name: 171223M1_68, Date: 24-Dec-2017, Time: 01:26:02, ID: 1701911-07 WI-A06-6-S-26-1217 0.11998, Description: WI-A06-6-S-26-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-07 WI-A06-6-S-26-1217 0.119...	7.93e3	84.9	NO
2	2	13C5-PFHxA	1701911-07 WI-A06-6-S-26-1217 0.119...	1.10e4	83.8	NO
3	3	13C3-PFHxS	1701911-07 WI-A06-6-S-26-1217 0.119...	2.31e3	90.9	NO
4	4	13C8-PFOA	1701911-07 WI-A06-6-S-26-1217 0.119...	7.69e3	67.1	NO
5	5	13C9-PFNA	1701911-07 WI-A06-6-S-26-1217 0.119...	7.51e3	68.5	NO
6	6	13C4-PFOS	1701911-07 WI-A06-6-S-26-1217 0.119...	2.87e3	92.6	NO
7	7	13C6-PFDA	1701911-07 WI-A06-6-S-26-1217 0.119...	9.30e3	127.1	NO
8	8	13C7-PFUDa	1701911-07 WI-A06-6-S-26-1217 0.119...	1.04e4	105.7	NO

Name: 171223M1_69, Date: 24-Dec-2017, Time: 01:37:12, ID: 1701911-09 WI-A06-EB04-120717 0.11441, Description: WI-A06-EB04-120717

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-09 WI-A06-EB04-120717 0.11...	7.45e3	79.8	NO
2	2	13C5-PFHxA	1701911-09 WI-A06-EB04-120717 0.11...	9.91e3	75.5	NO
3	3	13C3-PFHxS	1701911-09 WI-A06-EB04-120717 0.11...	2.23e3	87.6	NO
4	4	13C8-PFOA	1701911-09 WI-A06-EB04-120717 0.11...	7.51e3	65.5	NO
5	5	13C9-PFNA	1701911-09 WI-A06-EB04-120717 0.11...	9.01e3	82.2	NO
6	6	13C4-PFOS	1701911-09 WI-A06-EB04-120717 0.11...	2.46e3	79.2	NO
7	7	13C6-PFDA	1701911-09 WI-A06-EB04-120717 0.11...	9.11e3	124.6	NO
8	8	13C7-PFUDa	1701911-09 WI-A06-EB04-120717 0.11...	6.57e3	66.8	NO

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Name: 171223M1_70, Date: 24-Dec-2017, Time: 01:48:24, ID: 1701911-11 WI-A06-EB05-120717 0.12078,
Description: WI-A06-EB05-120717

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-11 WI-A06-EB05-120717 0.12...	7.29e3	78.0	NO
2	2	13C5-PFHxA	1701911-11 WI-A06-EB05-120717 0.12...	1.06e4	81.0	NO
3	3	13C3-PFHxS	1701911-11 WI-A06-EB05-120717 0.12...	2.13e3	83.6	NO
4	4	13C8-PFOA	1701911-11 WI-A06-EB05-120717 0.12...	8.43e3	73.6	NO
5	5	13C9-PFNA	1701911-11 WI-A06-EB05-120717 0.12...	8.89e3	81.0	NO
6	6	13C4-PFOS	1701911-11 WI-A06-EB05-120717 0.12...	2.38e3	76.9	NO
7	7	13C6-PFDA	1701911-11 WI-A06-EB05-120717 0.12...	7.51e3	102.7	NO
8	8	13C7-PFUDa	1701911-11 WI-A06-EB05-120717 0.12...	9.38e3	95.2	NO

Name: 171223M1_71, Date: 24-Dec-2017, Time: 01:59:34, ID: 1701911-13 WI-A06-FB01-120717 0.11922,
Description: WI-A06-FB01-120717

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-13 WI-A06-FB01-120717 0.11...	7.24e3	77.5	NO
2	2	13C5-PFHxA	1701911-13 WI-A06-FB01-120717 0.11...	1.05e4	79.9	NO
3	3	13C3-PFHxS	1701911-13 WI-A06-FB01-120717 0.11...	1.95e3	76.5	NO
4	4	13C8-PFOA	1701911-13 WI-A06-FB01-120717 0.11...	7.90e3	68.9	NO
5	5	13C9-PFNA	1701911-13 WI-A06-FB01-120717 0.11...	7.98e3	72.7	NO
6	6	13C4-PFOS	1701911-13 WI-A06-FB01-120717 0.11...	2.58e3	83.3	NO
7	7	13C6-PFDA	1701911-13 WI-A06-FB01-120717 0.11...	7.21e3	98.6	NO
8	8	13C7-PFUDa	1701911-13 WI-A06-FB01-120717 0.11...	6.80e3	69.1	NO

Name: 171223M1_72, Date: 24-Dec-2017, Time: 02:10:45, ID: 1701911-15 WI-A06-MW-10-1217 0.11211,
Description: WI-A06-MW-10-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-15 WI-A06-MW-10-1217 0.11...	7.88e3	84.4	NO
2	2	13C5-PFHxA	1701911-15 WI-A06-MW-10-1217 0.11...	1.14e4	87.2	NO
3	3	13C3-PFHxS	1701911-15 WI-A06-MW-10-1217 0.11...	2.54e3	99.8	NO
4	4	13C8-PFOA	1701911-15 WI-A06-MW-10-1217 0.11...	7.93e3	69.1	NO
5	5	13C9-PFNA	1701911-15 WI-A06-MW-10-1217 0.11...	9.03e3	82.3	NO
6	6	13C4-PFOS	1701911-15 WI-A06-MW-10-1217 0.11...	2.65e3	85.6	NO
7	7	13C6-PFDA	1701911-15 WI-A06-MW-10-1217 0.11...	6.97e3	95.3	NO
8	8	13C7-PFUDa	1701911-15 WI-A06-MW-10-1217 0.11...	7.80e3	79.2	NO

Name: 171223M1_73, Date: 24-Dec-2017, Time: 02:21:55, ID: 1701911-17 WI-A06-6-S-14-1217 0.11887,
Description: WI-A06-6-S-14-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-17 WI-A06-6-S-14-1217 0.118...	7.16e3	76.6	NO
2	2	13C5-PFHxA	1701911-17 WI-A06-6-S-14-1217 0.118...	1.14e4	87.1	NO
3	3	13C3-PFHxS	1701911-17 WI-A06-6-S-14-1217 0.118...	2.10e3	82.4	NO
4	4	13C8-PFOA	1701911-17 WI-A06-6-S-14-1217 0.118...	6.72e3	58.6	NO
5	5	13C9-PFNA	1701911-17 WI-A06-6-S-14-1217 0.118...	7.81e3	71.2	NO
6	6	13C4-PFOS	1701911-17 WI-A06-6-S-14-1217 0.118...	2.42e3	78.0	NO
7	7	13C6-PFDA	1701911-17 WI-A06-6-S-14-1217 0.118...	5.98e3	81.8	NO
8	8	13C7-PFUDa	1701911-17 WI-A06-6-S-14-1217 0.118...	6.73e3	68.3	NO

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Name: 171223M1_74, Date: 24-Dec-2017, Time: 02:33:06, ID: 1701911-19 WI-A06-6-S-44-1217 0.12131, Description: WI-A06-6-S-44-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-19 WI-A06-6-S-44-1217 0.121...	6.65e3	71.2	NO
2	2	13C5-PFHxA	1701911-19 WI-A06-6-S-44-1217 0.121...	1.02e4	77.9	NO
3	3	13C3-PFHxS	1701911-19 WI-A06-6-S-44-1217 0.121...	1.97e3	77.4	NO
4	4	13C8-PFOA	1701911-19 WI-A06-6-S-44-1217 0.121...	7.23e3	63.1	NO
5	5	13C9-PFNA	1701911-19 WI-A06-6-S-44-1217 0.121...	6.77e3	61.8	NO
6	6	13C4-PFOS	1701911-19 WI-A06-6-S-44-1217 0.121...	2.23e3	71.9	NO
7	7	13C6-PFDA	1701911-19 WI-A06-6-S-44-1217 0.121...	6.55e3	89.5	NO
8	8	13C7-PFUdA	1701911-19 WI-A06-6-S-44-1217 0.121...	6.99e3	71.0	NO

Name: 171223M1_75, Date: 24-Dec-2017, Time: 02:44:17, ID: 1701911-21 WI-A06-EB06-120817 0.11952, Description: WI-A06-EB06-120817

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701911-21 WI-A06-EB06-120817 0.11...	6.96e3	74.5	NO
2	2	13C5-PFHxA	1701911-21 WI-A06-EB06-120817 0.11...	1.01e4	76.8	NO
3	3	13C3-PFHxS	1701911-21 WI-A06-EB06-120817 0.11...	2.39e3	94.1	NO
4	4	13C8-PFOA	1701911-21 WI-A06-EB06-120817 0.11...	7.57e3	66.0	NO
5	5	13C9-PFNA	1701911-21 WI-A06-EB06-120817 0.11...	7.10e3	64.7	NO
6	6	13C4-PFOS	1701911-21 WI-A06-EB06-120817 0.11...	2.20e3	71.0	NO
7	7	13C6-PFDA	1701911-21 WI-A06-EB06-120817 0.11...	7.43e3	101.6	NO
8	8	13C7-PFUdA	1701911-21 WI-A06-EB06-120817 0.11...	7.93e3	80.5	NO

Name: 171223M1_76, Date: 24-Dec-2017, Time: 02:55:27, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA	5.50e0	0.0	NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA	2.52e1	0.2	NO
6	6	13C4-PFOS	IPA	4.38e1	1.4	NO
7	7	13C6-PFDA	IPA	2.41e1	0.3	NO
8	8	13C7-PFUdA	IPA	4.43e1	0.5	NO

Name: 171223M1_77, Date: 24-Dec-2017, Time: 03:06:38, ID: ST171223M41-14 PFC CS3 17K2810, Description: PFC CS3 17K2810

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171223M41-14 PFC CS3 17K2810	1.14e4	121.7	NO
2	2	13C5-PFHxA	ST171223M41-14 PFC CS3 17K2810	1.61e4	122.4	NO
3	3	13C3-PFHxS	ST171223M41-14 PFC CS3 17K2810	3.57e3	140.5	NO
4	4	13C8-PFOA	ST171223M41-14 PFC CS3 17K2810	1.36e4	118.9	NO
5	5	13C9-PFNA	ST171223M41-14 PFC CS3 17K2810	1.22e4	111.2	NO
6	6	13C4-PFOS	ST171223M41-14 PFC CS3 17K2810	3.21e3	103.7	NO
7	7	13C6-PFDA	ST171223M41-14 PFC CS3 17K2810	9.86e3	134.8	NO
8	8	13C7-PFUdA	ST171223M41-14 PFC CS3 17K2810	1.21e4	123.3	NO

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Name: 171223M1_78, Date: 24-Dec-2017, Time: 03:17:52, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	1.43e1	0.1	NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA	1.01e1	0.3	NO
7	7 13C6-PFDA	IPA	2.99e1	0.4	NO
8	8 13C7-PFUdA	IPA	6.93e1	0.7	NO

Name: 171223M1_79, Date: 24-Dec-2017, Time: 03:29:00, ID: B7L0088-BS1 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0088-BS1 OPR 0.125	8.59e3	92.0	NO
2	2 13C5-PFHxA	B7L0088-BS1 OPR 0.125	1.20e4	91.2	NO
3	3 13C3-PFHxS	B7L0088-BS1 OPR 0.125	2.76e3	108.6	NO
4	4 13C8-PFOA	B7L0088-BS1 OPR 0.125	9.63e3	84.0	NO
5	5 13C9-PFNA	B7L0088-BS1 OPR 0.125	8.95e3	81.6	NO
6	6 13C4-PFOS	B7L0088-BS1 OPR 0.125	2.46e3	79.3	NO
7	7 13C6-PFDA	B7L0088-BS1 OPR 0.125	9.16e3	125.2	NO
8	8 13C7-PFUdA	B7L0088-BS1 OPR 0.125	9.82e3	99.7	NO

Name: 171223M1_80, Date: 24-Dec-2017, Time: 03:40:10, ID: B7L0088-BLK1 Method Blank 0.125, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0088-BLK1 Method Blank 0.125	9.10e3	97.4	NO
2	2 13C5-PFHxA	B7L0088-BLK1 Method Blank 0.125	1.34e4	102.5	NO
3	3 13C3-PFHxS	B7L0088-BLK1 Method Blank 0.125	2.35e3	92.5	NO
4	4 13C8-PFOA	B7L0088-BLK1 Method Blank 0.125	9.26e3	80.7	NO
5	5 13C9-PFNA	B7L0088-BLK1 Method Blank 0.125	9.96e3	90.8	NO
6	6 13C4-PFOS	B7L0088-BLK1 Method Blank 0.125	3.25e3	104.9	NO
7	7 13C6-PFDA	B7L0088-BLK1 Method Blank 0.125	7.79e3	106.5	NO
8	8 13C7-PFUdA	B7L0088-BLK1 Method Blank 0.125	9.32e3	94.6	NO

Name: 171223M1_81, Date: 24-Dec-2017, Time: 03:51:22, ID: B7L0088-MS1 Matrix Spike 0.25868, Description: Matrix Spike

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0088-MS1 Matrix Spike 0.25868	6.74e3	72.1	NO
2	2 13C5-PFHxA	B7L0088-MS1 Matrix Spike 0.25868	1.07e4	81.3	NO
3	3 13C3-PFHxS	B7L0088-MS1 Matrix Spike 0.25868	2.06e3	81.0	NO
4	4 13C8-PFOA	B7L0088-MS1 Matrix Spike 0.25868	6.91e3	60.3	NO
5	5 13C9-PFNA	B7L0088-MS1 Matrix Spike 0.25868	7.78e3	71.0	NO
6	6 13C4-PFOS	B7L0088-MS1 Matrix Spike 0.25868	2.30e3	74.1	NO
7	7 13C6-PFDA	B7L0088-MS1 Matrix Spike 0.25868	7.42e3	101.4	NO
8	8 13C7-PFUdA	B7L0088-MS1 Matrix Spike 0.25868	8.01e3	81.4	NO

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Name: 171223M1_82, Date: 24-Dec-2017, Time: 04:02:32, ID: B7L0088-MSD1 Matrix Spike Dup 0.2594, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0088-MSD1 Matrix Spike Dup 0.2594	7.23e3	77.4	NO
2	2 13C5-PFHxA	B7L0088-MSD1 Matrix Spike Dup 0.2594	1.03e4	78.3	NO
3	3 13C3-PFHxS	B7L0088-MSD1 Matrix Spike Dup 0.2594	2.35e3	92.2	NO
4	4 13C8-PFOA	B7L0088-MSD1 Matrix Spike Dup 0.2594	7.52e3	65.6	NO
5	5 13C9-PFNA	B7L0088-MSD1 Matrix Spike Dup 0.2594	8.33e3	75.9	NO
6	6 13C4-PFOS	B7L0088-MSD1 Matrix Spike Dup 0.2594	2.69e3	86.9	NO
7	7 13C6-PFDA	B7L0088-MSD1 Matrix Spike Dup 0.2594	6.75e3	92.2	NO
8	8 13C7-PFUDa	B7L0088-MSD1 Matrix Spike Dup 0.2594	7.56e3	76.8	NO

Name: 171223M1_83, Date: 24-Dec-2017, Time: 04:13:43, ID: 1701832-01 FT-SW10-20171201 0.24901, Description: FT-SW10-20171201

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701832-01 FT-SW10-20171201 0.249...	8.39e3	89.8	NO
2	2 13C5-PFHxA	1701832-01 FT-SW10-20171201 0.249...	1.24e4	94.5	NO
3	3 13C3-PFHxS	1701832-01 FT-SW10-20171201 0.249...	3.05e3	120.0	NO
4	4 13C8-PFOA	1701832-01 FT-SW10-20171201 0.249...	1.02e4	89.2	NO
5	5 13C9-PFNA	1701832-01 FT-SW10-20171201 0.249...	1.04e4	94.5	NO
6	6 13C4-PFOS	1701832-01 FT-SW10-20171201 0.249...	2.84e3	91.6	NO
7	7 13C6-PFDA	1701832-01 FT-SW10-20171201 0.249...	1.01e4	138.4	NO
8	8 13C7-PFUDa	1701832-01 FT-SW10-20171201 0.249...	9.63e3	97.8	NO

Name: 171223M1_84, Date: 24-Dec-2017, Time: 04:24:56, ID: 1701832-02 FT-DUP04-20171201 0.25912, Description: FT-DUP04-20171201

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701832-02 FT-DUP04-20171201 0.25...	7.15e3	76.6	NO
2	2 13C5-PFHxA	1701832-02 FT-DUP04-20171201 0.25...	1.02e4	77.5	NO
3	3 13C3-PFHxS	1701832-02 FT-DUP04-20171201 0.25...	2.25e3	88.6	NO
4	4 13C8-PFOA	1701832-02 FT-DUP04-20171201 0.25...	7.95e3	69.3	NO
5	5 13C9-PFNA	1701832-02 FT-DUP04-20171201 0.25...	7.66e3	69.8	NO
6	6 13C4-PFOS	1701832-02 FT-DUP04-20171201 0.25...	2.71e3	87.5	NO
7	7 13C6-PFDA	1701832-02 FT-DUP04-20171201 0.25...	6.28e3	85.8	NO
8	8 13C7-PFUDa	1701832-02 FT-DUP04-20171201 0.25...	8.76e3	88.9	NO

Name: 171223M1_85, Date: 24-Dec-2017, Time: 04:36:08, ID: 1701832-03 FT-SW13-20171201 0.25163, Description: FT-SW13-20171201

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701832-03 FT-SW13-20171201 0.251...	7.95e3	85.1	NO
2	2 13C5-PFHxA	1701832-03 FT-SW13-20171201 0.251...	1.15e4	87.8	NO
3	3 13C3-PFHxS	1701832-03 FT-SW13-20171201 0.251...	2.67e3	104.8	NO
4	4 13C8-PFOA	1701832-03 FT-SW13-20171201 0.251...	9.36e3	81.6	NO
5	5 13C9-PFNA	1701832-03 FT-SW13-20171201 0.251...	1.12e4	102.2	NO
6	6 13C4-PFOS	1701832-03 FT-SW13-20171201 0.251...	2.54e3	82.0	NO
7	7 13C6-PFDA	1701832-03 FT-SW13-20171201 0.251...	7.49e3	102.4	NO
8	8 13C7-PFUDa	1701832-03 FT-SW13-20171201 0.251...	7.61e3	77.2	NO

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Name: 171223M1_86, Date: 24-Dec-2017, Time: 04:47:17, ID: 1701832-04 FT-SW12-20171201 0.25479,
Description: FT-SW12-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-04 FT-SW12-20171201 0.254...	6.34e3	67.9	NO
2	2	13C5-PFHxA	1701832-04 FT-SW12-20171201 0.254...	9.87e3	75.3	NO
3	3	13C3-PFHxS	1701832-04 FT-SW12-20171201 0.254...	2.00e3	78.7	NO
4	4	13C8-PFOA	1701832-04 FT-SW12-20171201 0.254...	6.61e3	57.6	NO
5	5	13C9-PFNA	1701832-04 FT-SW12-20171201 0.254...	6.25e3	57.0	NO
6	6	13C4-PFOS	1701832-04 FT-SW12-20171201 0.254...	2.37e3	76.5	NO
7	7	13C6-PFDA	1701832-04 FT-SW12-20171201 0.254...	6.93e3	94.7	NO
8	8	13C7-PFUDa	1701832-04 FT-SW12-20171201 0.254...	9.96e3	101.1	NO

Name: 171223M1_87, Date: 24-Dec-2017, Time: 04:58:28, ID: 1701832-05 SA-SW125-20171201 0.26063,
Description: SA-SW125-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-05 SA-SW125-20171201 0.26...	6.93e3	74.2	NO
2	2	13C5-PFHxA	1701832-05 SA-SW125-20171201 0.26...	9.82e3	74.9	NO
3	3	13C3-PFHxS	1701832-05 SA-SW125-20171201 0.26...	2.34e3	92.1	NO
4	4	13C8-PFOA	1701832-05 SA-SW125-20171201 0.26...	7.53e3	65.6	NO
5	5	13C9-PFNA	1701832-05 SA-SW125-20171201 0.26...	8.51e3	77.6	NO
6	6	13C4-PFOS	1701832-05 SA-SW125-20171201 0.26...	2.67e3	86.1	NO
7	7	13C6-PFDA	1701832-05 SA-SW125-20171201 0.26...	7.33e3	100.2	NO
8	8	13C7-PFUDa	1701832-05 SA-SW125-20171201 0.26...	7.78e3	79.0	NO

Name: 171223M1_88, Date: 24-Dec-2017, Time: 05:09:39, ID: 1701832-06 SA-SW124-20171201 0.24606,
Description: SA-SW124-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-06 SA-SW124-20171201 0.24...	6.98e3	74.7	NO
2	2	13C5-PFHxA	1701832-06 SA-SW124-20171201 0.24...	9.66e3	73.7	NO
3	3	13C3-PFHxS	1701832-06 SA-SW124-20171201 0.24...	2.14e3	84.3	NO
4	4	13C8-PFOA	1701832-06 SA-SW124-20171201 0.24...	6.60e3	57.6	NO
5	5	13C9-PFNA	1701832-06 SA-SW124-20171201 0.24...	7.58e3	69.1	NO
6	6	13C4-PFOS	1701832-06 SA-SW124-20171201 0.24...	1.73e3	55.8	NO
7	7	13C6-PFDA	1701832-06 SA-SW124-20171201 0.24...	6.85e3	93.7	NO
8	8	13C7-PFUDa	1701832-06 SA-SW124-20171201 0.24...	7.98e3	81.0	NO

Name: 171223M1_89, Date: 24-Dec-2017, Time: 05:20:50, ID: 1701832-07 SA-PZ124-20171201 0.22152,
Description: SA-PZ124-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-07 SA-PZ124-20171201 0.22...	7.78e3	83.2	NO
2	2	13C5-PFHxA	1701832-07 SA-PZ124-20171201 0.22...	1.05e4	80.2	NO
3	3	13C3-PFHxS	1701832-07 SA-PZ124-20171201 0.22...	2.39e3	93.8	NO
4	4	13C8-PFOA	1701832-07 SA-PZ124-20171201 0.22...	7.98e3	69.6	NO
5	5	13C9-PFNA	1701832-07 SA-PZ124-20171201 0.22...	6.91e3	63.0	NO
6	6	13C4-PFOS	1701832-07 SA-PZ124-20171201 0.22...	2.75e3	88.9	NO
7	7	13C6-PFDA	1701832-07 SA-PZ124-20171201 0.22...	6.85e3	93.6	NO
8	8	13C7-PFUDa	1701832-07 SA-PZ124-20171201 0.22...	8.94e3	90.7	NO

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Name: 171223M1_90, Date: 24-Dec-2017, Time: 05:32:00, ID: 1701832-08 SA-DUP05-20171201 0.23726, Description: SA-DUP05-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-08 SA-DUP05-20171201 0.23...	6.93e3	74.2	NO
2	2	13C5-PFHxA	1701832-08 SA-DUP05-20171201 0.23...	1.01e4	77.2	NO
3	3	13C3-PFHxS	1701832-08 SA-DUP05-20171201 0.23...	2.63e3	103.5	NO
4	4	13C8-PFOA	1701832-08 SA-DUP05-20171201 0.23...	7.10e3	61.9	NO
5	5	13C9-PFNA	1701832-08 SA-DUP05-20171201 0.23...	6.78e3	61.8	NO
6	6	13C4-PFOS	1701832-08 SA-DUP05-20171201 0.23...	1.95e3	62.9	NO
7	7	13C6-PFDA	1701832-08 SA-DUP05-20171201 0.23...	7.35e3	100.5	NO
8	8	13C7-PFUdA	1701832-08 SA-DUP05-20171201 0.23...	7.66e3	77.7	NO

Name: 171223M1_91, Date: 24-Dec-2017, Time: 05:43:10, ID: 1701832-09 SA-PZ147-20171201 0.25163, Description: SA-PZ147-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-09 SA-PZ147-20171201 0.25...	7.12e3	76.3	NO
2	2	13C5-PFHxA	1701832-09 SA-PZ147-20171201 0.25...	1.09e4	83.3	NO
3	3	13C3-PFHxS	1701832-09 SA-PZ147-20171201 0.25...	2.40e3	94.3	NO
4	4	13C8-PFOA	1701832-09 SA-PZ147-20171201 0.25...	7.60e3	66.3	NO
5	5	13C9-PFNA	1701832-09 SA-PZ147-20171201 0.25...	8.96e3	81.7	NO
6	6	13C4-PFOS	1701832-09 SA-PZ147-20171201 0.25...	2.44e3	78.7	NO
7	7	13C6-PFDA	1701832-09 SA-PZ147-20171201 0.25...	7.46e3	102.0	NO
8	8	13C7-PFUdA	1701832-09 SA-PZ147-20171201 0.25...	7.89e3	80.1	NO

Name: 171223M1_92, Date: 24-Dec-2017, Time: 05:54:22, ID: 1701832-10 SA-SW201-20171201 0.24837, Description: SA-SW201-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-10 SA-SW201-20171201 0.24...	7.68e3	82.2	NO
2	2	13C5-PFHxA	1701832-10 SA-SW201-20171201 0.24...	1.18e4	90.1	NO
3	3	13C3-PFHxS	1701832-10 SA-SW201-20171201 0.24...	2.54e3	99.9	NO
4	4	13C8-PFOA	1701832-10 SA-SW201-20171201 0.24...	9.31e3	81.2	NO
5	5	13C9-PFNA	1701832-10 SA-SW201-20171201 0.24...	8.41e3	76.7	NO
6	6	13C4-PFOS	1701832-10 SA-SW201-20171201 0.24...	3.16e3	101.8	NO
7	7	13C6-PFDA	1701832-10 SA-SW201-20171201 0.24...	7.03e3	96.0	NO
8	8	13C7-PFUdA	1701832-10 SA-SW201-20171201 0.24...	9.40e3	95.4	NO

Name: 171223M1_93, Date: 24-Dec-2017, Time: 06:05:32, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA	1.99e1	0.2	NO
6	6	13C4-PFOS	IPA	5.02e0	0.2	NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUdA	IPA	5.77e1	0.6	NO

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Name: 171223M1_94, Date: 24-Dec-2017, Time: 06:16:43, ID: ST171223M41-15 PFC CS3 17K2810, Description: PFC CS3 17K2810

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171223M41-15 PFC CS3 17K2810	1.16e4	124.4	NO
2	2 13C5-PFHxA	ST171223M41-15 PFC CS3 17K2810	1.54e4	117.8	NO
3	3 13C3-PFHxS	ST171223M41-15 PFC CS3 17K2810	3.24e3	127.2	NO
4	4 13C8-PFOA	ST171223M41-15 PFC CS3 17K2810	1.20e4	105.0	NO
5	5 13C9-PFNA	ST171223M41-15 PFC CS3 17K2810	1.26e4	114.9	NO
6	6 13C4-PFOS	ST171223M41-15 PFC CS3 17K2810	3.71e3	119.7	NO
7	7 13C6-PFDA	ST171223M41-15 PFC CS3 17K2810	9.39e3	128.3	NO
8	8 13C7-PFUdA	ST171223M41-15 PFC CS3 17K2810	1.05e4	106.3	NO

Name: 171223M1_95, Date: 24-Dec-2017, Time: 06:27:54, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	6.73e0	0.1	NO
5	5 13C9-PFNA	IPA	1.19e1	0.1	NO
6	6 13C4-PFOS	IPA	2.65e1	0.9	NO
7	7 13C6-PFDA	IPA	7.31e1	1.0	NO
8	8 13C7-PFUdA	IPA	1.08e1	0.1	NO

Name: 171223M1_96, Date: 24-Dec-2017, Time: 06:39:04, ID: 1701832-11 SW-DP01-20171201 0.26032, Description: SW-DP01-20171201

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701832-11 SW-DP01-20171201 0.260...	6.28e3	67.2	NO
2	2 13C5-PFHxA	1701832-11 SW-DP01-20171201 0.260...	9.42e3	71.8	NO
3	3 13C3-PFHxS	1701832-11 SW-DP01-20171201 0.260...	2.18e3	85.9	NO
4	4 13C8-PFOA	1701832-11 SW-DP01-20171201 0.260...	6.17e3	53.8	NO
5	5 13C9-PFNA	1701832-11 SW-DP01-20171201 0.260...	6.42e3	58.6	NO
6	6 13C4-PFOS	1701832-11 SW-DP01-20171201 0.260...	2.01e3	64.8	NO
7	7 13C6-PFDA	1701832-11 SW-DP01-20171201 0.260...	5.69e3	77.8	NO
8	8 13C7-PFUdA	1701832-11 SW-DP01-20171201 0.260...	7.36e3	74.8	NO

Name: 171223M1_97, Date: 24-Dec-2017, Time: 06:50:15, ID: 1701832-12 SA-SW204-20171201 0.25842, Description: SA-SW204-20171201

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701832-12 SA-SW204-20171201 0.25...	8.40e3	89.9	NO
2	2 13C5-PFHxA	1701832-12 SA-SW204-20171201 0.25...	1.21e4	92.5	NO
3	3 13C3-PFHxS	1701832-12 SA-SW204-20171201 0.25...	2.67e3	105.0	NO
4	4 13C8-PFOA	1701832-12 SA-SW204-20171201 0.25...	8.08e3	70.5	NO
5	5 13C9-PFNA	1701832-12 SA-SW204-20171201 0.25...	9.36e3	85.4	NO
6	6 13C4-PFOS	1701832-12 SA-SW204-20171201 0.25...	2.68e3	86.4	NO
7	7 13C6-PFDA	1701832-12 SA-SW204-20171201 0.25...	5.90e3	80.6	NO
8	8 13C7-PFUdA	1701832-12 SA-SW204-20171201 0.25...	7.89e3	80.1	NO

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Name: 171223M1_98, Date: 24-Dec-2017, Time: 07:01:25, ID: 1701832-13 SA-SW204-FRB-20171201 0.25939, Description: SA-SW204-FRB-20171201

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701832-13 SA-SW204-FRB-20171201...	6.79e3	72.7	NO
2	2	13C5-PFHxA	1701832-13 SA-SW204-FRB-20171201...	1.03e4	78.8	NO
3	3	13C3-PFHxS	1701832-13 SA-SW204-FRB-20171201...	2.33e3	91.7	NO
4	4	13C8-PFOA	1701832-13 SA-SW204-FRB-20171201...	7.72e3	67.3	NO
5	5	13C9-PFNA	1701832-13 SA-SW204-FRB-20171201...	7.02e3	64.0	NO
6	6	13C4-PFOS	1701832-13 SA-SW204-FRB-20171201...	2.45e3	78.9	NO
7	7	13C6-PFDA	1701832-13 SA-SW204-FRB-20171201...	8.75e3	119.7	NO
8	8	13C7-PFUdA	1701832-13 SA-SW204-FRB-20171201...	8.65e3	87.9	NO

Name: 171223M1_99, Date: 24-Dec-2017, Time: 07:12:36, ID: 1701841-06 OF-FB-120117 0.11813, Description: OF-FB-120117

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701841-06 OF-FB-120117 0.11813	8.95e3	95.8	NO
2	2	13C5-PFHxA	1701841-06 OF-FB-120117 0.11813	1.32e4	100.7	NO
3	3	13C3-PFHxS	1701841-06 OF-FB-120117 0.11813	2.42e3	95.2	NO
4	4	13C8-PFOA	1701841-06 OF-FB-120117 0.11813	8.72e3	76.1	NO
5	5	13C9-PFNA	1701841-06 OF-FB-120117 0.11813	1.03e4	93.6	NO
6	6	13C4-PFOS	1701841-06 OF-FB-120117 0.11813	2.76e3	89.1	NO
7	7	13C6-PFDA	1701841-06 OF-FB-120117 0.11813	1.14e4	155.8	YES
8	8	13C7-PFUdA	1701841-06 OF-FB-120117 0.11813	1.01e4	102.9	NO

Name: 171223M1_100, Date: 24-Dec-2017, Time: 07:23:47, ID: 1701841-07 OF-EB-120117 0.12048, Description: OF-EB-120117

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701841-07 OF-EB-120117 0.12048	8.22e3	88.0	NO
2	2	13C5-PFHxA	1701841-07 OF-EB-120117 0.12048	1.13e4	86.0	NO
3	3	13C3-PFHxS	1701841-07 OF-EB-120117 0.12048	2.49e3	97.9	NO
4	4	13C8-PFOA	1701841-07 OF-EB-120117 0.12048	9.35e3	81.6	NO
5	5	13C9-PFNA	1701841-07 OF-EB-120117 0.12048	1.01e4	91.9	NO
6	6	13C4-PFOS	1701841-07 OF-EB-120117 0.12048	2.41e3	77.7	NO
7	7	13C6-PFDA	1701841-07 OF-EB-120117 0.12048	9.06e3	123.8	NO
8	8	13C7-PFUdA	1701841-07 OF-EB-120117 0.12048	8.74e3	88.7	NO

Name: 171223M1_101, Date: 24-Dec-2017, Time: 07:34:58, ID: B7L0153-BS1 OPR 1, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7L0153-BS1 OPR 1	9.77e3	104.6	NO
2	2	13C5-PFHxA	B7L0153-BS1 OPR 1	1.25e4	95.4	NO
3	3	13C3-PFHxS	B7L0153-BS1 OPR 1	2.64e3	103.7	NO
4	4	13C8-PFOA	B7L0153-BS1 OPR 1	8.83e3	77.0	NO
5	5	13C9-PFNA	B7L0153-BS1 OPR 1	8.08e3	73.7	NO
6	6	13C4-PFOS	B7L0153-BS1 OPR 1	2.02e3	65.2	NO
7	7	13C6-PFDA	B7L0153-BS1 OPR 1	5.45e3	74.5	NO
8	8	13C7-PFUdA	B7L0153-BS1 OPR 1	3.13e3	31.8	YES

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Name: 171223M1_102, Date: 24-Dec-2017, Time: 07:46:09, ID: B7L0153-BLK1 Method Blank 1, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0153-BLK1 Method Blank 1	9.72e3	104.0	NO
2	2 13C5-PFHxA	B7L0153-BLK1 Method Blank 1	1.30e4	99.5	NO
3	3 13C3-PFHxS	B7L0153-BLK1 Method Blank 1	2.76e3	108.5	NO
4	4 13C8-PFOA	B7L0153-BLK1 Method Blank 1	1.05e4	91.8	NO
5	5 13C9-PFNA	B7L0153-BLK1 Method Blank 1	9.76e3	89.0	NO
6	6 13C4-PFOS	B7L0153-BLK1 Method Blank 1	2.46e3	79.3	NO
7	7 13C6-PFDA	B7L0153-BLK1 Method Blank 1	6.58e3	89.9	NO
8	8 13C7-PFUdA	B7L0153-BLK1 Method Blank 1	6.12e3	62.1	NO

Name: 171223M1_103, Date: 24-Dec-2017, Time: 07:57:19, ID: B7L0153-MS1 Matrix Spike 1, Description: Matrix Spike

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0153-MS1 Matrix Spike 1	9.66e3	103.4	NO
2	2 13C5-PFHxA	B7L0153-MS1 Matrix Spike 1	1.45e4	110.6	NO
3	3 13C3-PFHxS	B7L0153-MS1 Matrix Spike 1	2.97e3	116.6	NO
4	4 13C8-PFOA	B7L0153-MS1 Matrix Spike 1	9.58e3	83.6	NO
5	5 13C9-PFNA	B7L0153-MS1 Matrix Spike 1	9.33e3	85.1	NO
6	6 13C4-PFOS	B7L0153-MS1 Matrix Spike 1	2.27e3	73.4	NO
7	7 13C6-PFDA	B7L0153-MS1 Matrix Spike 1	5.65e3	77.2	NO
8	8 13C7-PFUdA	B7L0153-MS1 Matrix Spike 1	4.76e3	48.4	YES

Name: 171223M1_104, Date: 24-Dec-2017, Time: 08:08:30, ID: B7L0153-MSD1 Matrix Spike Dup 1, Description: Matrix Spike Dup

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0153-MSD1 Matrix Spike Dup 1	9.01e3	96.4	NO
2	2 13C5-PFHxA	B7L0153-MSD1 Matrix Spike Dup 1	1.30e4	99.1	NO
3	3 13C3-PFHxS	B7L0153-MSD1 Matrix Spike Dup 1	2.55e3	100.4	NO
4	4 13C8-PFOA	B7L0153-MSD1 Matrix Spike Dup 1	9.31e3	81.2	NO
5	5 13C9-PFNA	B7L0153-MSD1 Matrix Spike Dup 1	8.21e3	74.9	NO
6	6 13C4-PFOS	B7L0153-MSD1 Matrix Spike Dup 1	2.06e3	66.5	NO
7	7 13C6-PFDA	B7L0153-MSD1 Matrix Spike Dup 1	4.94e3	67.5	NO
8	8 13C7-PFUdA	B7L0153-MSD1 Matrix Spike Dup 1	3.56e3	36.1	YES

Name: 171223M1_105, Date: 24-Dec-2017, Time: 08:19:40, ID: 1701837-01 MARTN-03-SB01-2-4 1, Description: MARTN-03-SB01-2-4

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-01 MARTN-03-SB01-2-4 1	9.54e3	102.1	NO
2	2 13C5-PFHxA	1701837-01 MARTN-03-SB01-2-4 1	1.33e4	101.5	NO
3	3 13C3-PFHxS	1701837-01 MARTN-03-SB01-2-4 1	2.80e3	109.9	NO
4	4 13C8-PFOA	1701837-01 MARTN-03-SB01-2-4 1	1.06e4	92.7	NO
5	5 13C9-PFNA	1701837-01 MARTN-03-SB01-2-4 1	8.86e3	80.8	NO
6	6 13C4-PFOS	1701837-01 MARTN-03-SB01-2-4 1	2.58e3	83.3	NO
7	7 13C6-PFDA	1701837-01 MARTN-03-SB01-2-4 1	8.04e3	109.9	NO
8	8 13C7-PFUdA	1701837-01 MARTN-03-SB01-2-4 1	8.46e3	85.9	NO

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Name: 171223M1_106, Date: 24-Dec-2017, Time: 08:30:51, ID: 1701837-02 MARTN-03-SB01-5-7 1, Description: MARTN-03-SB01-5-7

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701837-02 MARTN-03-SB01-5-7 1	9.95e3	106.5	NO
2	2	13C5-PFHxA	1701837-02 MARTN-03-SB01-5-7 1	1.41e4	107.4	NO
3	3	13C3-PFHxS	1701837-02 MARTN-03-SB01-5-7 1	2.81e3	110.5	NO
4	4	13C8-PFOA	1701837-02 MARTN-03-SB01-5-7 1	1.04e4	90.6	NO
5	5	13C9-PFNA	1701837-02 MARTN-03-SB01-5-7 1	9.92e3	90.4	NO
6	6	13C4-PFOS	1701837-02 MARTN-03-SB01-5-7 1	2.56e3	82.5	NO
7	7	13C6-PFDA	1701837-02 MARTN-03-SB01-5-7 1	5.38e3	73.5	NO
8	8	13C7-PFUdA	1701837-02 MARTN-03-SB01-5-7 1	4.82e3	48.9	YES

Name: 171223M1_107, Date: 24-Dec-2017, Time: 08:42:02, ID: 1701837-03 MARTN-03-SB02-1-3 1, Description: MARTN-03-SB02-1-3

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701837-03 MARTN-03-SB02-1-3 1	8.61e3	92.2	NO
2	2	13C5-PFHxA	1701837-03 MARTN-03-SB02-1-3 1	1.19e4	91.0	NO
3	3	13C3-PFHxS	1701837-03 MARTN-03-SB02-1-3 1	2.78e3	109.3	NO
4	4	13C8-PFOA	1701837-03 MARTN-03-SB02-1-3 1	8.46e3	73.8	NO
5	5	13C9-PFNA	1701837-03 MARTN-03-SB02-1-3 1	9.72e3	88.6	NO
6	6	13C4-PFOS	1701837-03 MARTN-03-SB02-1-3 1	2.82e3	91.0	NO
7	7	13C6-PFDA	1701837-03 MARTN-03-SB02-1-3 1	6.58e3	89.9	NO
8	8	13C7-PFUdA	1701837-03 MARTN-03-SB02-1-3 1	6.69e3	67.9	NO

Name: 171223M1_108, Date: 24-Dec-2017, Time: 08:53:12, ID: 1701837-04 MARTN-03-SB02-4-6 1, Description: MARTN-03-SB02-4-6

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701837-04 MARTN-03-SB02-4-6 1	9.53e3	102.0	NO
2	2	13C5-PFHxA	1701837-04 MARTN-03-SB02-4-6 1	1.40e4	107.1	NO
3	3	13C3-PFHxS	1701837-04 MARTN-03-SB02-4-6 1	2.38e3	93.5	NO
4	4	13C8-PFOA	1701837-04 MARTN-03-SB02-4-6 1	1.05e4	91.2	NO
5	5	13C9-PFNA	1701837-04 MARTN-03-SB02-4-6 1	9.60e3	87.5	NO
6	6	13C4-PFOS	1701837-04 MARTN-03-SB02-4-6 1	1.94e3	62.5	NO
7	7	13C6-PFDA	1701837-04 MARTN-03-SB02-4-6 1	5.11e3	69.9	NO
8	8	13C7-PFUdA	1701837-04 MARTN-03-SB02-4-6 1	3.03e3	30.7	YES

Name: 171223M1_109, Date: 24-Dec-2017, Time: 09:04:23, ID: 1701837-05 MARTN-03-SB03-0-2 1, Description: MARTN-03-SB03-0-2

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701837-05 MARTN-03-SB03-0-2 1	1.01e4	107.8	NO
2	2	13C5-PFHxA	1701837-05 MARTN-03-SB03-0-2 1	1.38e4	105.2	NO
3	3	13C3-PFHxS	1701837-05 MARTN-03-SB03-0-2 1	2.98e3	117.2	NO
4	4	13C8-PFOA	1701837-05 MARTN-03-SB03-0-2 1	1.07e4	93.0	NO
5	5	13C9-PFNA	1701837-05 MARTN-03-SB03-0-2 1	1.10e4	100.4	NO
6	6	13C4-PFOS	1701837-05 MARTN-03-SB03-0-2 1	2.95e3	95.2	NO
7	7	13C6-PFDA	1701837-05 MARTN-03-SB03-0-2 1	7.63e3	104.3	NO
8	8	13C7-PFUdA	1701837-05 MARTN-03-SB03-0-2 1	7.20e3	73.1	NO

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Name: 171223M1_110, Date: 24-Dec-2017, Time: 09:15:34, ID: 1701837-06 MARTN-03-SB03-6-8 1, Description: MARTN-03-SB03-6-8

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-06 MARTN-03-SB03-6-8 1	8.63e3	92.4	NO
2	2 13C5-PFHxA	1701837-06 MARTN-03-SB03-6-8 1	1.23e4	93.8	NO
3	3 13C3-PFHxS	1701837-06 MARTN-03-SB03-6-8 1	2.87e3	113.0	NO
4	4 13C8-PFOA	1701837-06 MARTN-03-SB03-6-8 1	9.09e3	79.2	NO
5	5 13C9-PFNA	1701837-06 MARTN-03-SB03-6-8 1	9.12e3	83.1	NO
6	6 13C4-PFOS	1701837-06 MARTN-03-SB03-6-8 1	2.31e3	74.5	NO
7	7 13C6-PFDA	1701837-06 MARTN-03-SB03-6-8 1	7.30e3	99.8	NO
8	8 13C7-PFUdA	1701837-06 MARTN-03-SB03-6-8 1	6.63e3	67.3	NO

Name: 171223M1_111, Date: 24-Dec-2017, Time: 09:26:45, ID: 1701837-07 MARTN-06-SB03-2-4 1, Description: MARTN-06-SB03-2-4

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-07 MARTN-06-SB03-2-4 1	9.24e3	98.9	NO
2	2 13C5-PFHxA	1701837-07 MARTN-06-SB03-2-4 1	1.31e4	100.0	NO
3	3 13C3-PFHxS	1701837-07 MARTN-06-SB03-2-4 1	2.51e3	98.6	NO
4	4 13C8-PFOA	1701837-07 MARTN-06-SB03-2-4 1	9.38e3	81.8	NO
5	5 13C9-PFNA	1701837-07 MARTN-06-SB03-2-4 1	9.89e3	90.2	NO
6	6 13C4-PFOS	1701837-07 MARTN-06-SB03-2-4 1	2.93e3	94.5	NO
7	7 13C6-PFDA	1701837-07 MARTN-06-SB03-2-4 1	6.54e3	89.4	NO
8	8 13C7-PFUdA	1701837-07 MARTN-06-SB03-2-4 1	5.96e3	60.5	NO

Name: 171223M1_112, Date: 24-Dec-2017, Time: 09:37:55, ID: 1701837-08 MARTN-06-SB03-6-8 1, Description: MARTN-06-SB03-6-8

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-08 MARTN-06-SB03-6-8 1	9.21e3	98.6	NO
2	2 13C5-PFHxA	1701837-08 MARTN-06-SB03-6-8 1	1.27e4	97.0	NO
3	3 13C3-PFHxS	1701837-08 MARTN-06-SB03-6-8 1	2.76e3	108.6	NO
4	4 13C8-PFOA	1701837-08 MARTN-06-SB03-6-8 1	9.79e3	85.4	NO
5	5 13C9-PFNA	1701837-08 MARTN-06-SB03-6-8 1	9.85e3	89.8	NO
6	6 13C4-PFOS	1701837-08 MARTN-06-SB03-6-8 1	2.49e3	80.4	NO
7	7 13C6-PFDA	1701837-08 MARTN-06-SB03-6-8 1	6.04e3	82.6	NO
8	8 13C7-PFUdA	1701837-08 MARTN-06-SB03-6-8 1	5.75e3	58.4	NO

Name: 171223M1_113, Date: 24-Dec-2017, Time: 09:49:06, ID: 1701837-09 MARTN-06-SB04-0-2 1, Description: MARTN-06-SB04-0-2

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-09 MARTN-06-SB04-0-2 1	8.47e3	90.7	NO
2	2 13C5-PFHxA	1701837-09 MARTN-06-SB04-0-2 1	1.20e4	91.4	NO
3	3 13C3-PFHxS	1701837-09 MARTN-06-SB04-0-2 1	2.43e3	95.5	NO
4	4 13C8-PFOA	1701837-09 MARTN-06-SB04-0-2 1	8.50e3	74.1	NO
5	5 13C9-PFNA	1701837-09 MARTN-06-SB04-0-2 1	9.40e3	85.7	NO
6	6 13C4-PFOS	1701837-09 MARTN-06-SB04-0-2 1	2.50e3	80.5	NO
7	7 13C6-PFDA	1701837-09 MARTN-06-SB04-0-2 1	6.11e3	83.5	NO
8	8 13C7-PFUdA	1701837-09 MARTN-06-SB04-0-2 1	4.42e3	44.9	YES

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Name: 171223M1_114, Date: 24-Dec-2017, Time: 10:00:17, ID: 1701837-10 MARTN-08-SB04-10-12 1, Description: MARTN-08-SB04-10-12

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-10 MARTN-08-SB04-10-12 1	7.39e3	79.1	NO
2	2 13C5-PFHxA	1701837-10 MARTN-08-SB04-10-12 1	1.09e4	82.7	NO
3	3 13C3-PFHxS	1701837-10 MARTN-08-SB04-10-12 1	2.10e3	82.5	NO
4	4 13C8-PFOA	1701837-10 MARTN-08-SB04-10-12 1	7.73e3	67.4	NO
5	5 13C9-PFNA	1701837-10 MARTN-08-SB04-10-12 1	8.17e3	74.5	NO
6	6 13C4-PFOS	1701837-10 MARTN-08-SB04-10-12 1	2.51e3	80.9	NO
7	7 13C6-PFDA	1701837-10 MARTN-08-SB04-10-12 1	6.37e3	87.1	NO
8	8 13C7-PFUdA	1701837-10 MARTN-08-SB04-10-12 1	7.18e3	72.9	NO

Name: 171223M1_115, Date: 24-Dec-2017, Time: 10:11:27, ID: 1701837-11 MARTN-08-SB04-2-4 1, Description: MARTN-08-SB04-2-4

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-11 MARTN-08-SB04-2-4 1	8.13e3	87.1	NO
2	2 13C5-PFHxA	1701837-11 MARTN-08-SB04-2-4 1	1.18e4	90.1	NO
3	3 13C3-PFHxS	1701837-11 MARTN-08-SB04-2-4 1	2.14e3	84.0	NO
4	4 13C8-PFOA	1701837-11 MARTN-08-SB04-2-4 1	7.87e3	68.6	NO
5	5 13C9-PFNA	1701837-11 MARTN-08-SB04-2-4 1	1.04e4	95.1	NO
6	6 13C4-PFOS	1701837-11 MARTN-08-SB04-2-4 1	2.54e3	81.9	NO
7	7 13C6-PFDA	1701837-11 MARTN-08-SB04-2-4 1	7.10e3	97.0	NO
8	8 13C7-PFUdA	1701837-11 MARTN-08-SB04-2-4 1	1.14e4	116.1	NO

Name: 171223M1_116, Date: 24-Dec-2017, Time: 10:22:38, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	5.04e0	0.0	NO
5	5 13C9-PFNA	IPA	3.07e1	0.3	NO
6	6 13C4-PFOS	IPA	1.82e1	0.6	NO
7	7 13C6-PFDA	IPA	5.54e1	0.8	NO
8	8 13C7-PFUdA	IPA	2.01e1	0.2	NO

Name: 171223M1_117, Date: 24-Dec-2017, Time: 10:33:49, ID: ST171223M1-16 PFC CS3 17K2810, Description: PFC CS3 17K2810

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171223M1-16 PFC CS3 17K2810	1.20e4	128.0	NO
2	2 13C5-PFHxA	ST171223M1-16 PFC CS3 17K2810	1.74e4	133.0	NO
3	3 13C3-PFHxS	ST171223M1-16 PFC CS3 17K2810	3.72e3	146.4	NO
4	4 13C8-PFOA	ST171223M1-16 PFC CS3 17K2810	1.34e4	116.6	NO
5	5 13C9-PFNA	ST171223M1-16 PFC CS3 17K2810	1.39e4	126.8	NO
6	6 13C4-PFOS	ST171223M1-16 PFC CS3 17K2810	3.91e3	126.1	NO
7	7 13C6-PFDA	ST171223M1-16 PFC CS3 17K2810	9.66e3	132.0	NO
8	8 13C7-PFUdA	ST171223M1-16 PFC CS3 17K2810	1.43e4	145.3	NO

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Name: 171223M1_118, Date: 24-Dec-2017, Time: 10:45:00, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	5.98e0	0.1	NO
5	5 13C9-PFNA	IPA	1.21e1	0.1	NO
6	6 13C4-PFOS	IPA	1.25e1	0.4	NO
7	7 13C6-PFDA	IPA	6.07e0	0.1	NO
8	8 13C7-PFUdA	IPA	3.84e1	0.4	NO

Name: 171223M1_119, Date: 24-Dec-2017, Time: 10:56:10, ID: 1701837-08 MARTN-06-SB03-6-8 1, Description: MARTN-06-SB03-6-8

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-08 MARTN-06-SB03-6-8 1	9.26e3	99.2	NO
2	2 13C5-PFHxA	1701837-08 MARTN-06-SB03-6-8 1	1.32e4	100.4	NO
3	3 13C3-PFHxS	1701837-08 MARTN-06-SB03-6-8 1	2.93e3	115.3	NO
4	4 13C8-PFOA	1701837-08 MARTN-06-SB03-6-8 1	9.05e3	78.9	NO
5	5 13C9-PFNA	1701837-08 MARTN-06-SB03-6-8 1	9.43e3	86.0	NO
6	6 13C4-PFOS	1701837-08 MARTN-06-SB03-6-8 1	2.32e3	75.0	NO
7	7 13C6-PFDA	1701837-08 MARTN-06-SB03-6-8 1	7.62e3	104.1	NO
8	8 13C7-PFUdA	1701837-08 MARTN-06-SB03-6-8 1	4.92e3	49.9	NO

Name: 171223M1_120, Date: 24-Dec-2017, Time: 11:07:21, ID: 1701837-09 MARTN-06-SB04-0-2 1, Description: MARTN-06-SB04-0-2

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-09 MARTN-06-SB04-0-2 1	9.16e3	98.0	NO
2	2 13C5-PFHxA	1701837-09 MARTN-06-SB04-0-2 1	1.23e4	93.5	NO
3	3 13C3-PFHxS	1701837-09 MARTN-06-SB04-0-2 1	3.06e3	120.2	NO
4	4 13C8-PFOA	1701837-09 MARTN-06-SB04-0-2 1	1.03e4	89.5	NO
5	5 13C9-PFNA	1701837-09 MARTN-06-SB04-0-2 1	9.12e3	83.2	NO
6	6 13C4-PFOS	1701837-09 MARTN-06-SB04-0-2 1	2.41e3	77.9	NO
7	7 13C6-PFDA	1701837-09 MARTN-06-SB04-0-2 1	7.98e3	109.1	NO
8	8 13C7-PFUdA	1701837-09 MARTN-06-SB04-0-2 1	5.63e3	57.2	NO

Name: 171223M1_121, Date: 24-Dec-2017, Time: 11:18:32, ID: 1701837-10 MARTN-08-SB04-10-12 1, Description: MARTN-08-SB04-10-12

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701837-10 MARTN-08-SB04-10-12 1	9.70e3	103.8	NO
2	2 13C5-PFHxA	1701837-10 MARTN-08-SB04-10-12 1	1.35e4	102.8	NO
3	3 13C3-PFHxS	1701837-10 MARTN-08-SB04-10-12 1	2.82e3	110.7	NO
4	4 13C8-PFOA	1701837-10 MARTN-08-SB04-10-12 1	1.00e4	87.3	NO
5	5 13C9-PFNA	1701837-10 MARTN-08-SB04-10-12 1	1.03e4	93.9	NO
6	6 13C4-PFOS	1701837-10 MARTN-08-SB04-10-12 1	3.51e3	113.3	NO
7	7 13C6-PFDA	1701837-10 MARTN-08-SB04-10-12 1	7.90e3	108.0	NO
8	8 13C7-PFUdA	1701837-10 MARTN-08-SB04-10-12 1	6.48e3	65.7	NO

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Name: 171223M1_122, Date: 24-Dec-2017, Time: 11:29:42, ID: 1701837-11 MARTN-08-SB04-2-4 1, Description: MARTN-08-SB04-2-4

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701837-11 MARTN-08-SB04-2-4 1	1.11e4	118.3	NO
2	2	13C5-PFHxA	1701837-11 MARTN-08-SB04-2-4 1	1.51e4	115.1	NO
3	3	13C3-PFHxS	1701837-11 MARTN-08-SB04-2-4 1	2.83e3	111.2	NO
4	4	13C8-PFOA	1701837-11 MARTN-08-SB04-2-4 1	9.95e3	86.8	NO
5	5	13C9-PFNA	1701837-11 MARTN-08-SB04-2-4 1	1.22e4	111.4	NO
6	6	13C4-PFOS	1701837-11 MARTN-08-SB04-2-4 1	3.08e3	99.2	NO
7	7	13C6-PFDA	1701837-11 MARTN-08-SB04-2-4 1	8.08e3	110.5	NO
8	8	13C7-PFUdA	1701837-11 MARTN-08-SB04-2-4 1	5.94e3	60.3	NO

Name: 171223M1_123, Date: 24-Dec-2017, Time: 11:40:53, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA	3.87e1	0.4	NO
6	6	13C4-PFOS	IPA	2.95e1	1.0	NO
7	7	13C6-PFDA	IPA	2.73e1	0.4	NO
8	8	13C7-PFUdA	IPA	4.85e1	0.5	NO

Name: 171223M1_124, Date: 24-Dec-2017, Time: 11:52:04, ID: ST171223M1-17 PFC CS0 17L1204, Description: PFC CS0 17L1204

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171223M1-17 PFC CS0 17L1204	1.17e4	125.0	NO
2	2	13C5-PFHxA	ST171223M1-17 PFC CS0 17L1204	1.64e4	124.8	NO
3	3	13C3-PFHxS	ST171223M1-17 PFC CS0 17L1204	3.63e3	142.7	NO
4	4	13C8-PFOA	ST171223M1-17 PFC CS0 17L1204	1.16e4	101.4	NO
5	5	13C9-PFNA	ST171223M1-17 PFC CS0 17L1204	1.14e4	104.1	NO
6	6	13C4-PFOS	ST171223M1-17 PFC CS0 17L1204	3.79e3	122.4	NO
7	7	13C6-PFDA	ST171223M1-17 PFC CS0 17L1204	8.80e3	120.3	NO
8	8	13C7-PFUdA	ST171223M1-17 PFC CS0 17L1204	1.07e4	108.2	NO

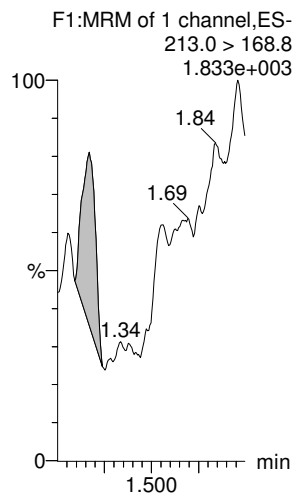
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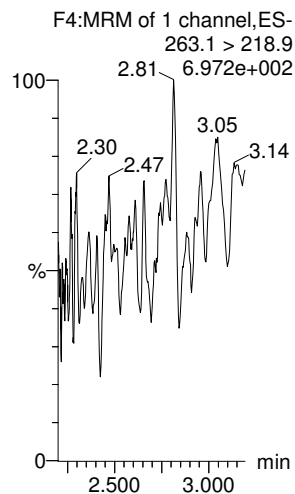
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Name: 171223M1_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

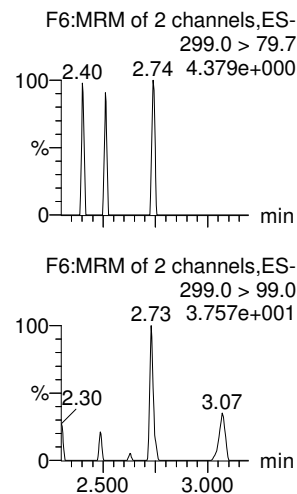
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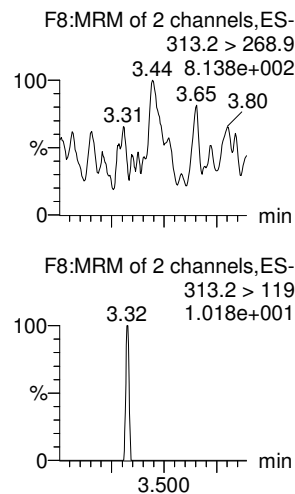
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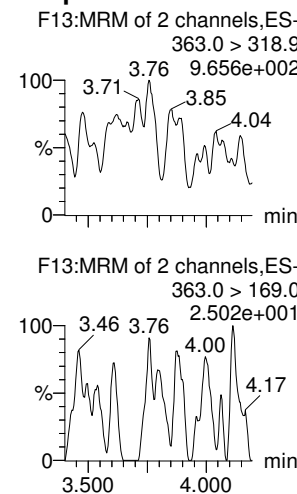
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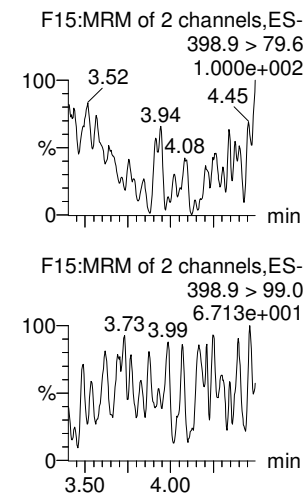
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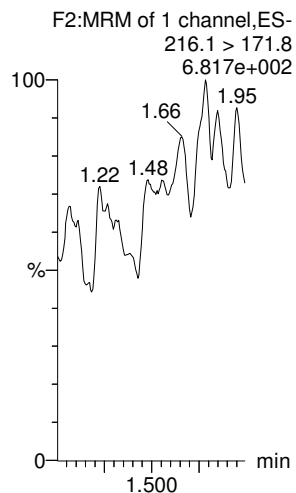
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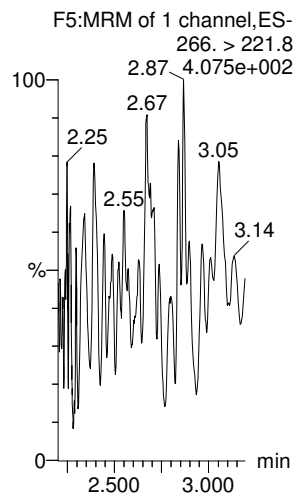
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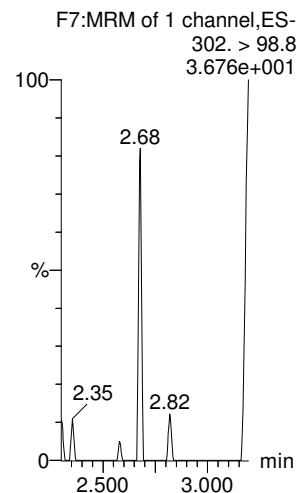
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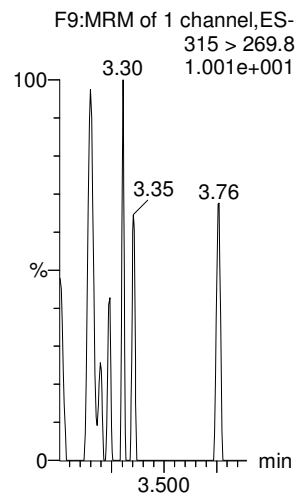
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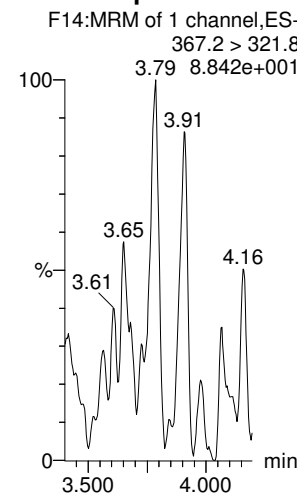
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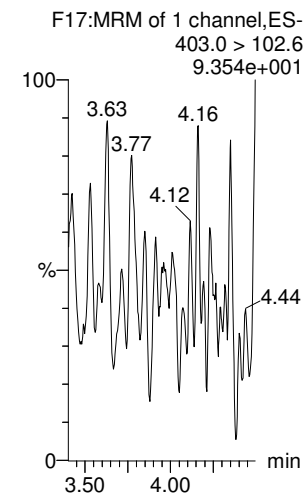
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13C4-PFHpA



18O2-PFHxS



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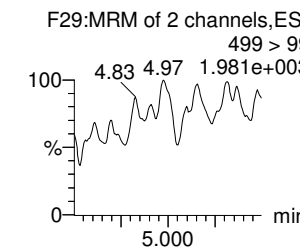
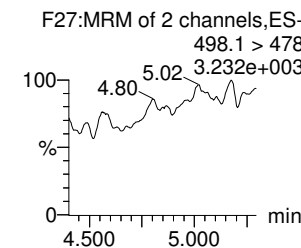
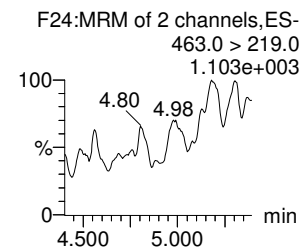
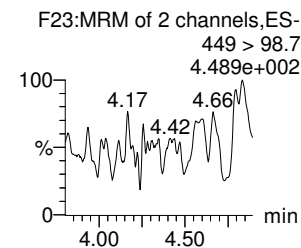
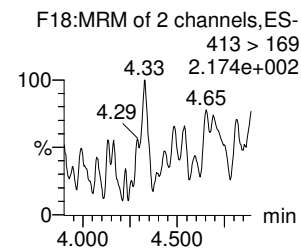
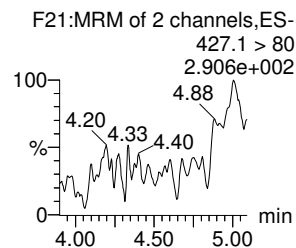
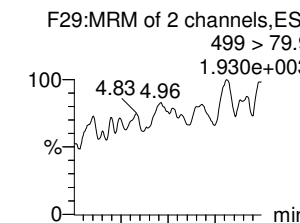
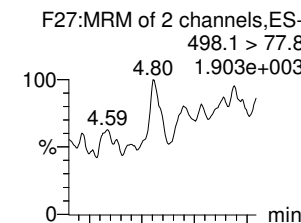
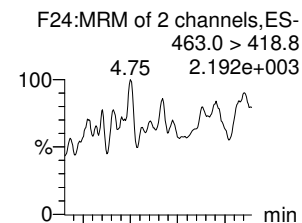
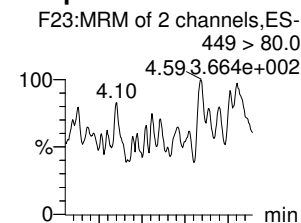
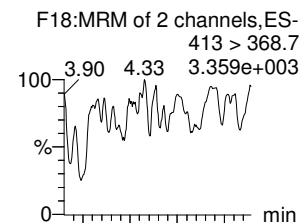
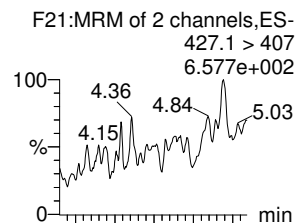
L-PFOA

PFHpS

PFNA

PFOSA

L-PFOS



13C2-6:2 FTS

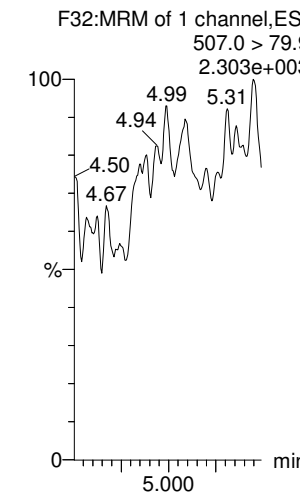
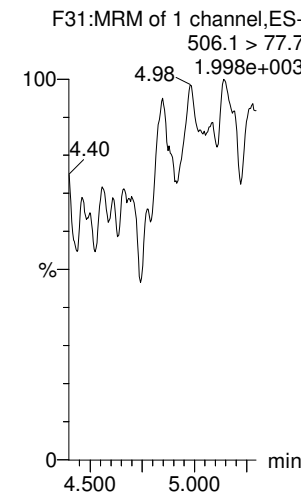
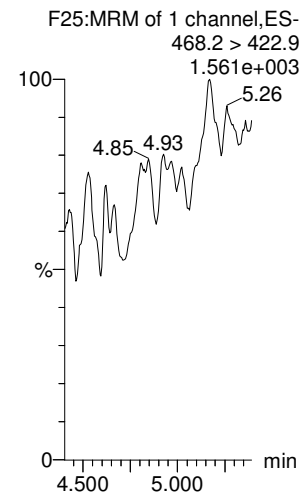
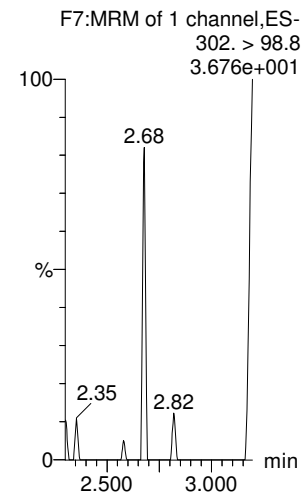
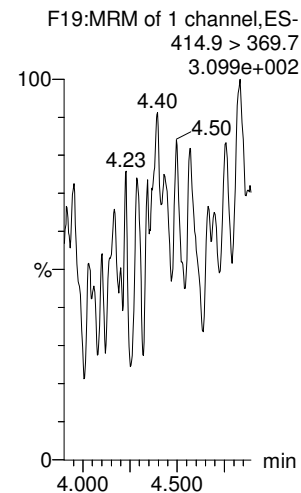
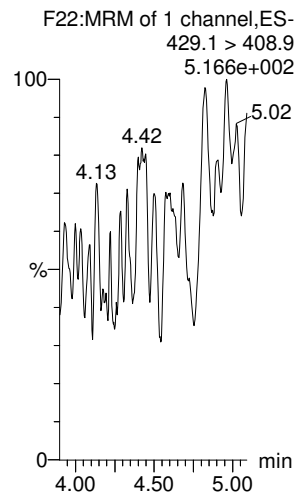
13C2-PFOA

13C3-PFBS

13C5-PFNA

13C8-PFOA

13C8-PFOS



Dataset: U:\Q4.PRO\results\171223M1\171223M1-12.qld

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PFDA

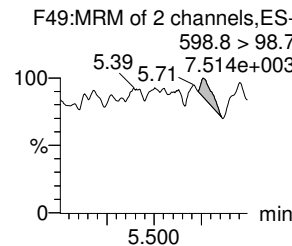
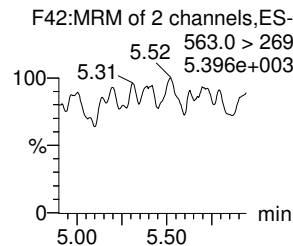
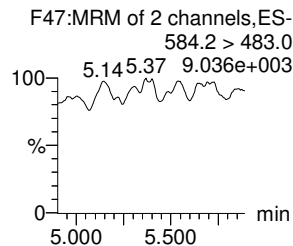
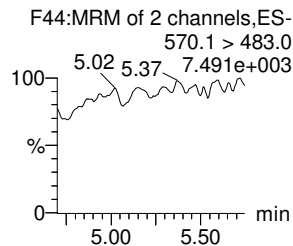
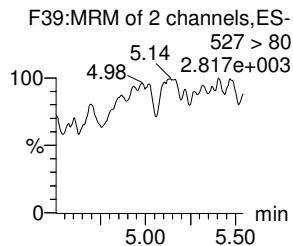
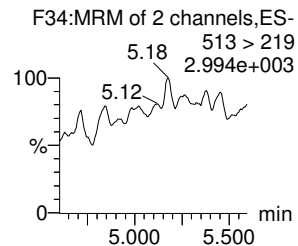
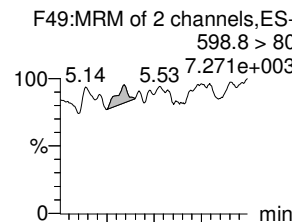
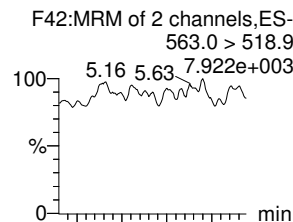
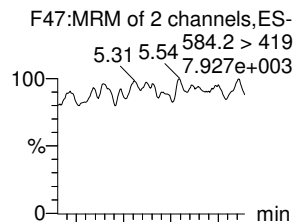
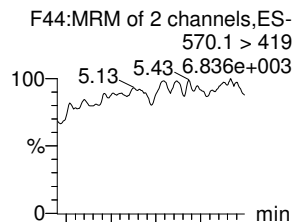
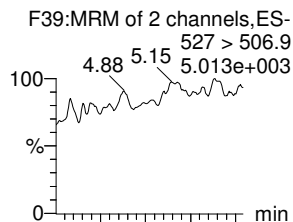
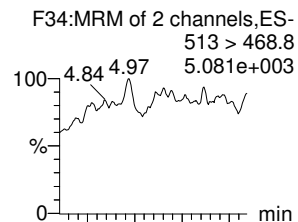
8:2 FTS

N-MeFOSAA

N-EtFOSAA

PFUdA

PFDS



13C2-PFDA

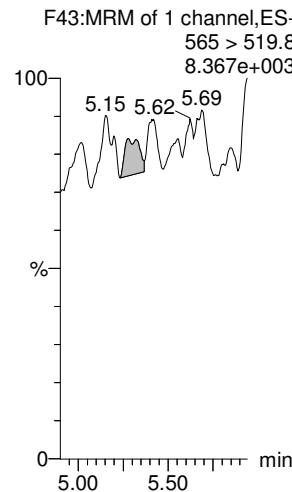
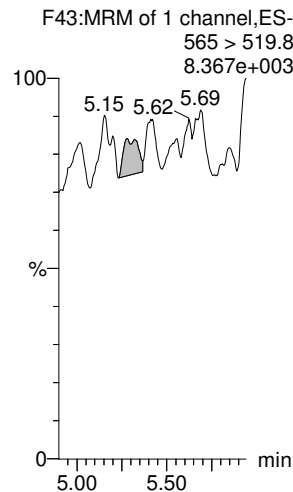
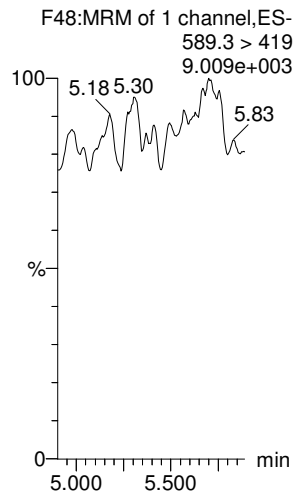
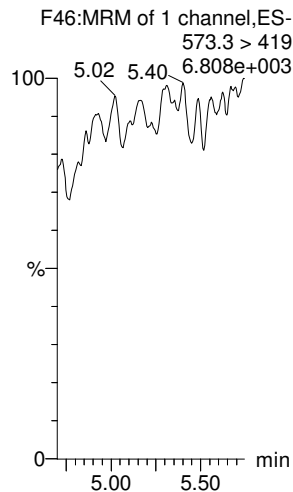
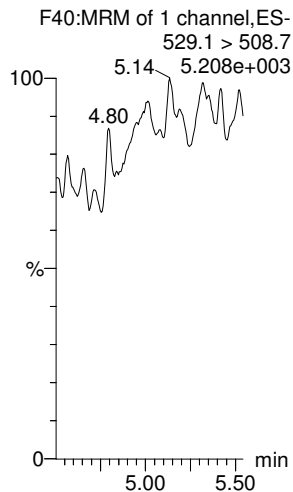
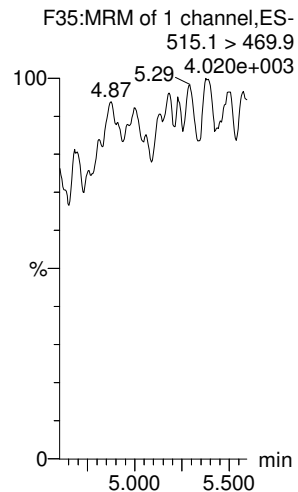
13C2-8:2 FTS

d3-N-MeFOSAA

d5-N-EtFOSAA

13C2-PFUdA

13C2-PFUdA



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Name: 171223M1_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

PFDoA

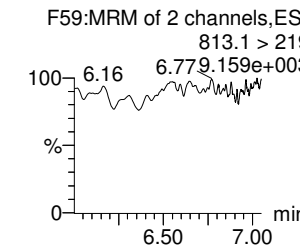
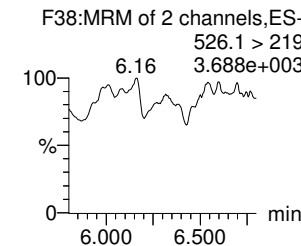
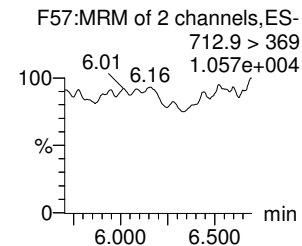
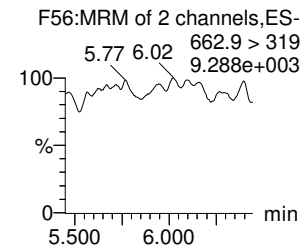
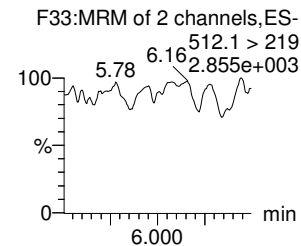
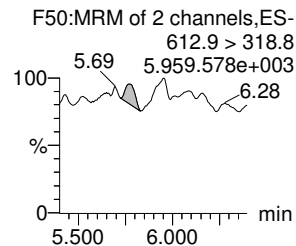
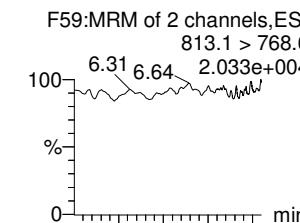
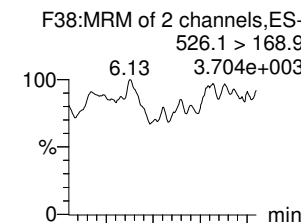
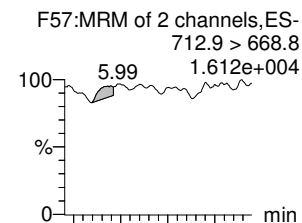
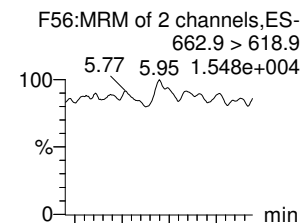
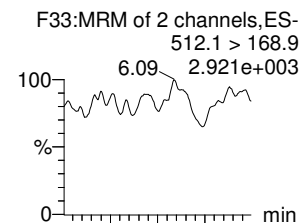
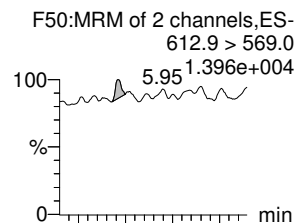
N-MeFOSA

PFTrDA

PFTeDA

N-EtFOSA

PFHxDA



13C2-PFDoA

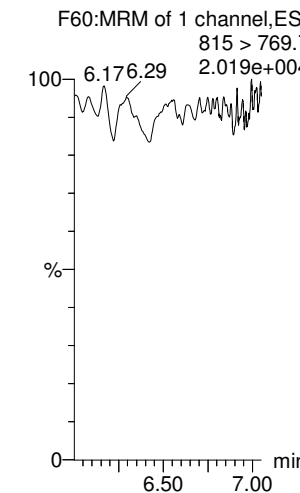
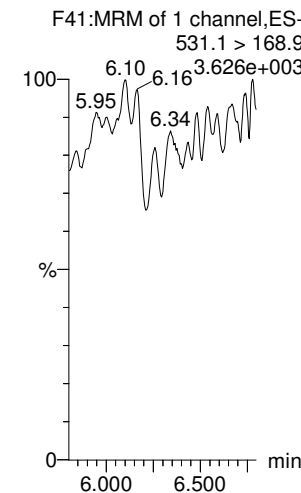
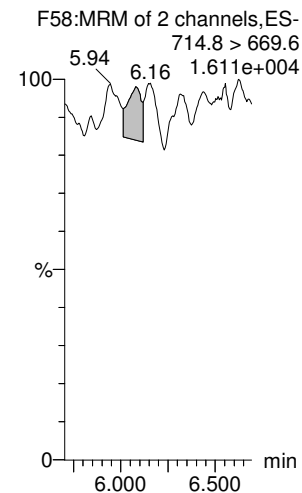
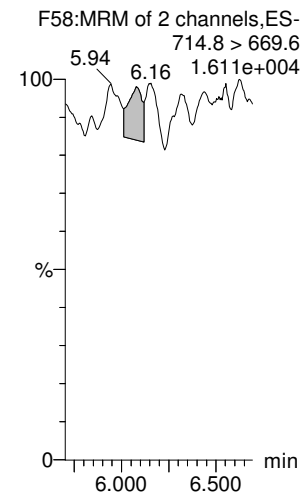
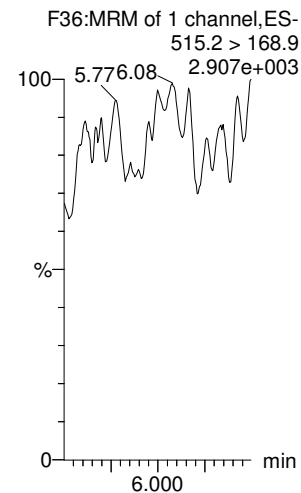
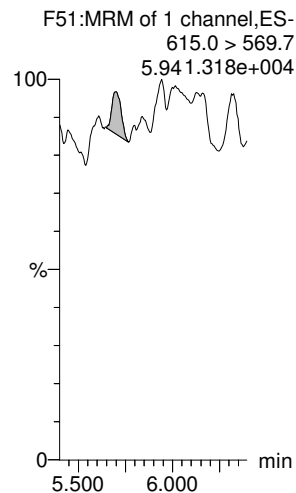
d3-N-MeFOSA

13C2-PFTeDA

13C2-PFTeDA

d5-N-ETFOSA

13C2-PFHxDA

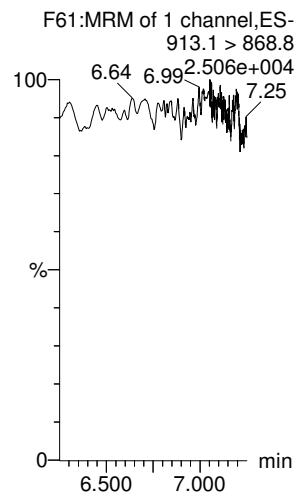


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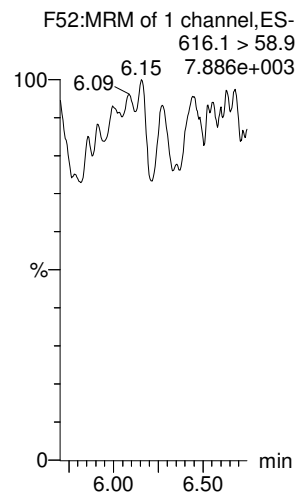
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Name: 171223M1_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

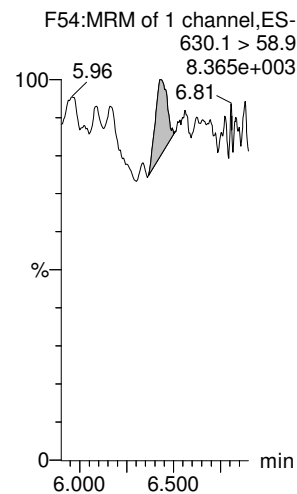
PFODA



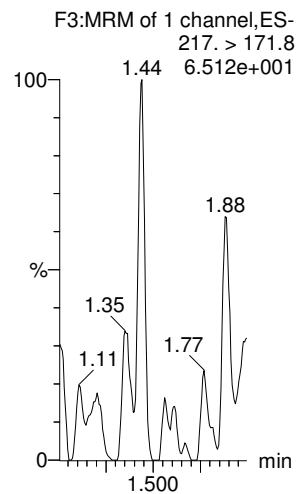
N-MeFOSE



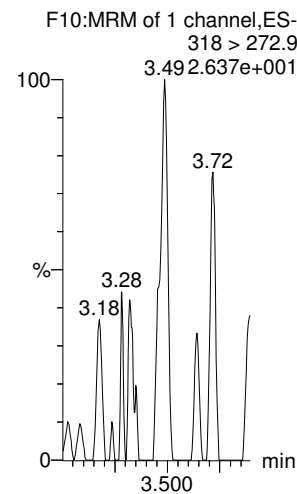
N-EtFOSE



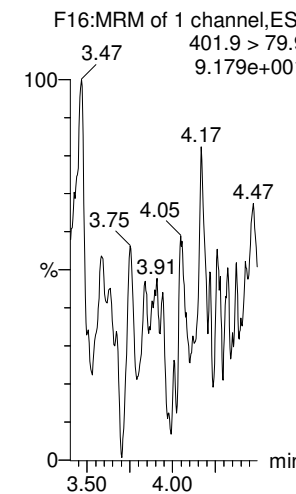
13C4-PFBA



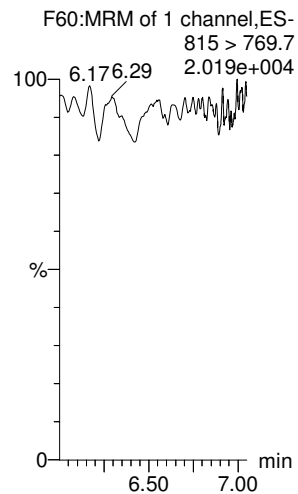
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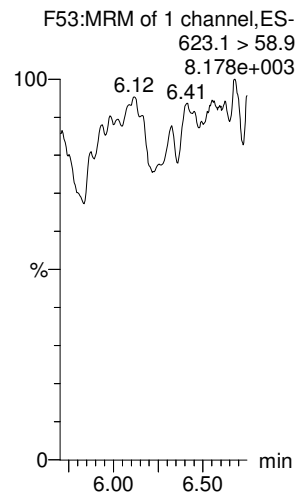
13C3-PFHxS



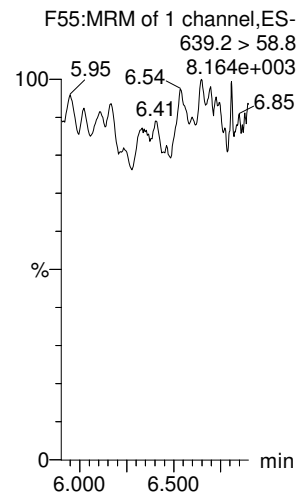
13C2-PFHxDA



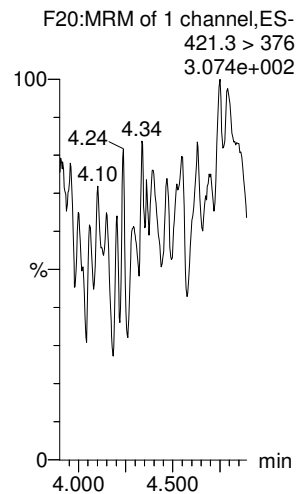
d7-N-MeFOSE



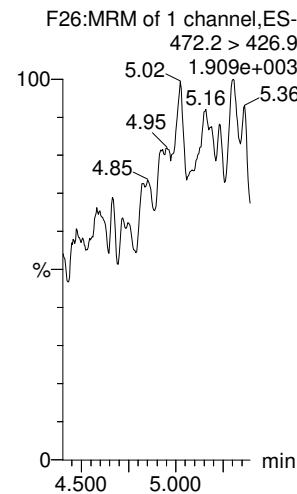
d9-N-EtFOSE



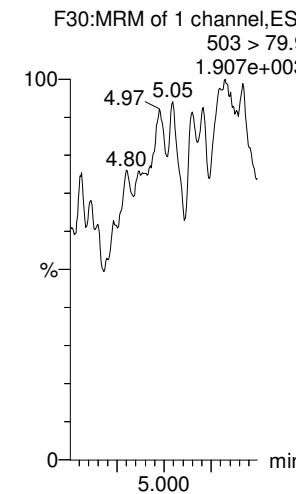
13C8-PFOA



13C9-PFNA



13C4-PFOS



Dataset: U:\Q4.PRO\results\171223M1\171223M1-12.qld

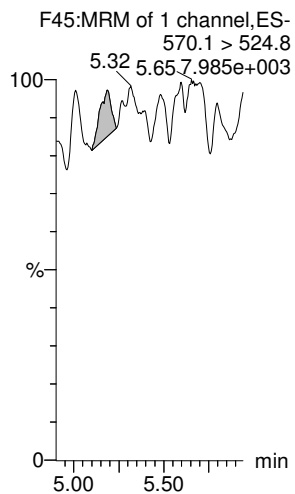
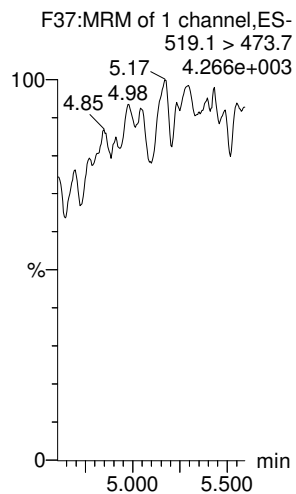
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13C6-PFDA

13C7-PFUdA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-29.qld

Last Altered: Tuesday, December 26, 2017 13:11:31 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

AC
12/26/17

JJA
12/26/2017

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.29e3	9.51e3	1.0000		1.47	1.50	12.2	9.982	99.8
2	2 PFPeA	263.1 > 218.9	1.03e4	1.29e4	1.0000		2.44	2.46	9.96	9.271	92.7
3	3 PFBS	299.0 > 79.7	2.51e3	1.60e3	1.0000		2.70	2.73	19.7	9.071	90.7
4	4 PFHxA	313.2 > 268.9	1.33e4	4.18e3	1.0000		3.20	3.22	16.0	10.818	108.2
5	5 PFHpA	363.0 > 318.9	1.04e4	8.87e3	1.0000		3.80	3.84	14.6	9.387	93.9
6	6 L-PFHxS	398.9 > 79.6	1.93e3	1.35e3	1.0000		3.95	3.98	17.9	10.084	100.8
7	8 6:2 FTS	427.1 > 407	2.75e3	3.37e3	1.0000		4.26	4.30	10.2	9.164	91.6
8	9 L-PFOA	413 > 368.7	1.04e4	1.37e4	1.0000		4.32	4.35	9.49	9.103	91.0
9	11 PFHpS	449 > 80.0	2.97e3	1.37e4	1.0000		4.43	4.45	2.70	10.415	104.2
10	12 PFNA	463.0 > 418.8	1.45e4	1.10e4	1.0000		4.75	4.78	16.5	12.205	122.0
11	13 PFOSA	498.1 > 77.8	3.46e3	4.00e3	1.0000		4.81	4.84	10.8	12.038	120.4
12	14 L-PFOS	499 > 79.9	2.50e3	3.90e3	1.0000		4.83	4.86	8.03	7.328	73.3
13	16 PFDA	513 > 468.8	1.22e4	1.22e4	1.0000		5.11	5.14	12.5	7.316	73.2
14	17 8:2 FTS	527 > 506.9	2.89e3	1.85e3	1.0000		5.09	5.11	19.5	9.850	98.5
15	18 N-MeFOSAA	570.1 > 419	6.74e3	4.40e3	1.0000		5.26	5.29	19.2	9.051	90.5
16	19 N-EtFOSAA	584.2 > 419	4.64e3	4.57e3	1.0000		5.42	5.44	12.7	9.772	97.7
17	20 PFUdA	563.0 > 518.9	1.18e4	1.20e4	1.0000		5.43	5.46	12.3	10.007	100.1
18	21 PFDS	598.8 > 80	3.17e3	1.20e4	1.0000		5.50	5.50	3.30	9.810	98.1
19	22 PFDoA	612.9 > 569.0	1.20e4	7.55e3	1.0000		5.70	5.74	19.9	8.113	81.1
20	23 N-MeFOSA	512.1 > 168.9	7.15e3	1.75e4	1.0000		5.77	5.79	61.4	53.325	106.6
21	24 PFTTrDA	662.9 > 618.9	1.05e4	7.03e3	1.0000		5.95	5.97	18.6	7.064	70.6
22	25 PFTeDA	712.9 > 668.8	1.07e4	7.03e3	1.0000		6.16	6.19	19.1	11.899	119.0
23	26 N-EtFOSA	526.1 > 168.9	9.72e3	2.93e4	1.0000		6.15	6.18	49.8	52.210	104.4
24	27 PFHxDA	813.1 > 768.6	4.96e3	3.73e3	1.0000		6.48	6.50	6.66	9.142	91.4
25	28 PFODA	913.1 > 868.8	6.14e3	3.73e3	1.0000		6.70	6.72	8.23	10.646	106.5
26	29 N-MeFOSE	616.1 > 58.9	9.34e3	2.60e4	1.0000		6.30	6.31	53.9	52.029	104.1
27	30 N-EtFOSE	630.1 > 58.9	1.27e4	3.26e4	1.0000		6.42	6.46	58.6	51.193	102.4
28	31 13C3-PFBA	216.1 > 171.8	9.51e3	1.03e4	1.0000	0.880	1.47	1.50	11.6	13.179	105.4
29	32 13C3-PFPeA	266. > 221.8	1.29e4	1.46e4	1.0000	0.826	2.44	2.46	11.1	13.414	107.3
30	33 13C3-PFBS	302. > 98.8	1.60e3	1.46e4	1.0000	0.106	2.70	2.73	1.37	12.900	103.2
31	34 13C2-PFHxA	315 > 269.8	4.18e3	1.46e4	1.0000	0.743	3.20	3.22	3.57	4.809	96.2

70-130
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 50-150
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Dataset: U:\Q4.PRO\results\171223M1\171223M1-29.qld

Last Altered: Tuesday, December 26, 2017 13:11:31 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec	
32	35	13C4-PFHpA	367.2 > 321.8	8.87e3	1.46e4	1.0000	0.557	3.80	3.84	7.59	13.635	109.1
33	36	18O2-PFHxS	403.0 > 102.6	1.35e3	3.02e3	1.0000	0.433	3.95	3.98	5.59	12.922	103.4
34	37	13C2-6:2 FTS	429.1 > 408.9	3.37e3	1.06e4	1.0000	0.275	4.26	4.30	3.98	14.489	115.9
35	38	13C2-PFOA	414.9 > 369.7	1.37e4	1.06e4	1.0000	1.141	4.32	4.35	16.2	14.192	113.5
36	39	13C5-PFNA	468.2 > 422.9	1.10e4	1.14e4	1.0000	0.963	4.75	4.78	12.0	12.516	100.1
37	40	13C8-PFOSA	506.1 > 77.7	4.00e3	1.26e4	1.0000	0.373	4.81	4.83	3.97	10.633	85.1
38	41	13C8-PFOS	507.0 > 79.9	3.90e3	3.24e3	1.0000	1.075	4.83	4.85	15.0	13.978	111.8
39	42	13C2-PFDA	515.1 > 469.9	1.22e4	9.68e3	1.0000	1.213	5.11	5.15	15.7	12.945	103.6
40	43	13C2-8:2 FTS	529.1 > 508.7	1.85e3	1.46e4	1.0000	0.109	5.09	5.11	1.58	14.472	115.8
41	44	d3-N-MeFOSAA	573.3 > 419	4.40e3	1.26e4	1.0000	0.405	5.26	5.29	4.36	10.764	86.1
42	45	d5-N-EtFOSAA	589.3 > 419	4.57e3	1.26e4	1.0000	0.490	5.42	5.44	4.53	9.245	74.0
43	46	13C2-PFUdA	565 > 519.8	1.20e4	1.26e4	1.0000	1.154	5.43	5.46	11.9	10.320	82.6
44	47	13C2-PFDoA	615.0 > 569.7	7.55e3	1.26e4	1.0000	0.623	5.70	5.73	7.49	12.030	96.2
45	48	d3-N-MeFOSA	515.2 > 168.9	1.75e4	1.26e4	1.0000	0.146	5.80	5.81	17.3	118.944	79.3
46	49	13C2-PFTeDA	714.8 > 669.6	7.03e3	1.26e4	1.0000	0.706	6.16	6.19	6.98	9.889	79.1
47	50	d5-N-ETFOSA	531.1 > 168.9	2.93e4	1.26e4	1.0000	0.227	6.16	6.19	29.1	127.870	85.2
48	51	13C2-PFHxDA	815 > 769.7	3.73e3	1.26e4	1.0000	0.909	6.48	6.50	3.70	4.068	81.4
49	52	d7-N-MeFOSE	623.1 > 58.9	2.60e4	1.26e4	1.0000	0.213	6.30	6.30	25.8	120.931	80.6
50	53	d9-N-EtFOSE	639.2 > 58.8	3.26e4	1.26e4	1.0000	0.225	6.42	6.45	32.4	143.523	95.7
51	54	13C4-PFBA	217. > 171.8	1.03e4	1.03e4	1.0000	1.000	1.47	1.50	12.5	12.500	100.0
52	55	13C5-PFHxA	318 > 272.9	1.46e4	1.46e4	1.0000	1.000	3.20	3.22	12.5	12.500	100.0
53	56	13C3-PFHxS	401.9 > 79.9	3.02e3	3.02e3	1.0000	1.000	3.95	3.98	12.5	12.500	100.0
54	57	13C8-PFOA	421.3 > 376	1.06e4	1.06e4	1.0000	1.000	4.32	4.35	12.5	12.500	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.14e4	1.14e4	1.0000	1.000	4.75	4.78	12.5	12.500	100.0
56	59	13C4-PFOS	503 > 79.9	3.24e3	3.24e3	1.0000	1.000	4.83	4.85	12.5	12.500	100.0
57	60	13C6-PFDA	519.1 > 473.7	9.68e3	9.68e3	1.0000	1.000	5.11	5.14	12.5	12.500	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.26e4	1.26e4	1.0000	1.000	5.43	5.46	12.5	12.500	100.0

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Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 26, 2017 14:28:59 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:31:05 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Compound name: PFBA

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1	171223M1_1	IPA	23-Dec-17	12:56:57
2	171223M1_2	ST171223M1-1 PFC CS-2 17L1202	23-Dec-17	13:08:15
3	171223M1_3	ST171223M1-2 PFC CS-1 17L1203	23-Dec-17	13:19:26
4	171223M1_4	ST171223M1-3 PFC CS0 17L1204	23-Dec-17	13:30:37
5	171223M1_5	ST171223M1-4 PFC CS1 17L1205	23-Dec-17	13:41:47
6	171223M1_6	ST171223M1-5 PFC CS2 17L1802	23-Dec-17	13:52:58
7	171223M1_7	ST171223M1-6 PFC CS3 17L1207	23-Dec-17	14:04:09
8	171223M1_8	ST171223M1-7 PFC CS4 17L1208	23-Dec-17	14:15:20
9	171223M1_9	ST171223M1-8 PFC CS5 17L1209	23-Dec-17	14:26:30
10	171223M1_10	ST171223M1-9 PFC CS6 17L1803	23-Dec-17	14:37:41
11	171223M1_11	ST171223M1-10 PFC CS7 17L1804	23-Dec-17	14:48:52
12	171223M1_12	IPA	23-Dec-17	15:00:03
13	171223M1_13	ICV171223M1-1 PFC ICV 17L1201	23-Dec-17	15:11:13
14	171223M1_14	IPA	23-Dec-17	15:22:24
15	171223M1_15	B7L0138-BS1 OPR 0.125	23-Dec-17	15:33:35
16	171223M1_16	B7L0138-BSD1 LCSD 0.125	23-Dec-17	15:44:45
17	171223M1_17	IPA	23-Dec-17	15:55:56
18	171223M1_18	B7L0138-BLK1 Method Blank 0.125	23-Dec-17	16:07:07
19	171223M1_19	1701882-01 WI-A06-6-I-01-1217 0.11568	23-Dec-17	16:18:17
20	171223M1_20	1701882-03 WI-A06-EB01-120517 0.11513	23-Dec-17	16:29:28
21	171223M1_21	1701882-05 WI-A06-EB02-120517 0.11852	23-Dec-17	16:40:39
22	171223M1_22	1701882-07 WI-A06-EFF01-1217 0.11544	23-Dec-17	16:51:50
23	171223M1_23	1701882-09 WI-A06-EFF01P-1217 0.11592	23-Dec-17	17:03:00
24	171223M1_24	1701882-11 WI-A06-INF01-1217 0.1146	23-Dec-17	17:14:11
25	171223M1_25	1701882-13 WI-A06-P-4-1217 0.1188	23-Dec-17	17:25:22
26	171223M1_26	1701882-15 WI-A06-6-I-03-1217 0.10976	23-Dec-17	17:36:32
27	171223M1_27	1701819-10RE1 REEPDW017FRB 0.11771	23-Dec-17	17:47:43
28	171223M1_28	IPA	23-Dec-17	17:58:54
29	171223M1_29	ST171223M1-11 PFC CS3 17L1207	23-Dec-17	18:10:05
30	171223M1_30	IPA	23-Dec-17	18:21:15
31	171223M1_31	B7L0075-BS1 OPR 0.125	23-Dec-17	18:32:26

Dataset: Untitled

Last Altered: Tuesday, December 26, 2017 14:28:59 Pacific Standard Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	171223M1_32	IPA	23-Dec-17	18:43:36
33	171223M1_33	B7L0075-BLK1 Method Blank 0.125	23-Dec-17	18:54:48
34	171223M1_34	1701821-01 WT1711291630MK 0.052	23-Dec-17	19:05:58
35	171223M1_35	1701821-02 WT1711291655MK 0.05223	23-Dec-17	19:17:09
36	171223M1_36	1701821-03 WT1711291735MK 0.0543	23-Dec-17	19:28:20
37	171223M1_37	1701821-04 WT1711291825MK 0.05373	23-Dec-17	19:39:30
38	171223M1_38	1701821-05 WT1711300810MK 0.05263	23-Dec-17	19:50:41
39	171223M1_39	1701821-06 WT1711300835MK 0.05051	23-Dec-17	20:01:51
40	171223M1_40	1701821-07 WT1711300905MK 0.05189	23-Dec-17	20:13:02
41	171223M1_41	1701821-08 WT1711300925MK 0.05317	23-Dec-17	20:24:13
42	171223M1_42	1701821-09 WT1711300940MK 0.05397	23-Dec-17	20:35:24
43	171223M1_43	1701821-10 WT1711300955MK 0.05336	23-Dec-17	20:46:34
44	171223M1_44	IPA	23-Dec-17	20:57:45
45	171223M1_45	ST171223M1-12 PFC CS3 17L1207	23-Dec-17	21:08:56
46	171223M1_46	IPA	23-Dec-17	21:20:06
47	171223M1_47	1701821-11 WT1711301020MK 0.05401	23-Dec-17	21:31:17
48	171223M1_48	1701821-12 WT1711301035MK 0.05248	23-Dec-17	21:42:28
49	171223M1_49	1701821-13 WT1711301055MK 0.05226	23-Dec-17	21:53:38
50	171223M1_50	1701821-14 WT1711301105MK 0.04991	23-Dec-17	22:04:49
51	171223M1_51	1701839-01 STWRT-GW-MW113 0.11527	23-Dec-17	22:16:00
52	171223M1_52	IPA	23-Dec-17	22:27:11
53	171223M1_53	1701839-01@5X STWRT-GW-MW113 0.11527	23-Dec-17	22:38:22
54	171223M1_54	1701839-12 STWRT-LW-MW02 0.11638	23-Dec-17	22:49:32
55	171223M1_55	1701761-13 GENBM-10-SB03-14.5-15-11171...	23-Dec-17	23:00:43
56	171223M1_56	IPA	23-Dec-17	23:11:54
57	171223M1_57	B7L0145-BS1 OPR 0.125	23-Dec-17	23:23:04
58	171223M1_58	IPA	23-Dec-17	23:34:15
59	171223M1_59	B7L0145-BLK1 Method Blank 0.125	23-Dec-17	23:45:25
60	171223M1_60	B7L0145-MS1 Matrix Spike 0.11652	23-Dec-17	23:56:36
61	171223M1_61	B7L0145-MSD1 Matrix Spike Dup 0.11629	24-Dec-17	00:07:47
62	171223M1_62	1701911-01 WI-A06-6-S-17-1217 0.11914	24-Dec-17	00:18:58
63	171223M1_63	1701911-03 WI-A06-EB03-120617 0.11706	24-Dec-17	00:30:08
64	171223M1_64	IPA	24-Dec-17	00:41:19
65	171223M1_65	ST171223M1-13 PFC CS0 17L1204	24-Dec-17	00:52:30

Dataset: Untitled

Last Altered: Tuesday, December 26, 2017 14:28:59 Pacific Standard Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	171223M1_66	IPA	24-Dec-17	01:03:41
67	171223M1_67	1701911-05 WI-A06-6-S-07-1217 0.11644	24-Dec-17	01:14:51
68	171223M1_68	1701911-07 WI-A06-6-S-26-1217 0.11998	24-Dec-17	01:26:02
69	171223M1_69	1701911-09 WI-A06-EB04-120717 0.11441	24-Dec-17	01:37:12
70	171223M1_70	1701911-11 WI-A06-EB05-120717 0.12078	24-Dec-17	01:48:24
71	171223M1_71	1701911-13 WI-A06-FB01-120717 0.11922	24-Dec-17	01:59:34
72	171223M1_72	1701911-15 WI-A06-MW-10-1217 0.11211	24-Dec-17	02:10:45
73	171223M1_73	1701911-17 WI-A06-6-S-14-1217 0.11887	24-Dec-17	02:21:55
74	171223M1_74	1701911-19 WI-A06-6-S-44-1217 0.12131	24-Dec-17	02:33:06
75	171223M1_75	1701911-21 WI-A06-EB06-120817 0.11952	24-Dec-17	02:44:17
76	171223M1_76	IPA	24-Dec-17	02:55:27
77	171223M1_77	ST171223M1-14 PFC CS3 17K2810	24-Dec-17	03:06:38
78	171223M1_78	IPA	24-Dec-17	03:17:52
79	171223M1_79	B7L0088-BS1 OPR 0.125	24-Dec-17	03:29:00
80	171223M1_80	B7L0088-BLK1 Method Blank 0.125	24-Dec-17	03:40:10
81	171223M1_81	B7L0088-MS1 Matrix Spike 0.25868	24-Dec-17	03:51:22
82	171223M1_82	B7L0088-MSD1 Matrix Spike Dup 0.2594	24-Dec-17	04:02:32
83	171223M1_83	1701832-01 FT-SW10-20171201 0.24901	24-Dec-17	04:13:43
84	171223M1_84	1701832-02 FT-DUP04-20171201 0.25912	24-Dec-17	04:24:56
85	171223M1_85	1701832-03 FT-SW13-20171201 0.25163	24-Dec-17	04:36:08
86	171223M1_86	1701832-04 FT-SW12-20171201 0.25479	24-Dec-17	04:47:17
87	171223M1_87	1701832-05 SA-SW125-20171201 0.26063	24-Dec-17	04:58:28
88	171223M1_88	1701832-06 SA-SW124-20171201 0.24606	24-Dec-17	05:09:39
89	171223M1_89	1701832-07 SA-PZ124-20171201 0.22152	24-Dec-17	05:20:50
90	171223M1_90	1701832-08 SA-DUP05-20171201 0.23726	24-Dec-17	05:32:00
91	171223M1_91	1701832-09 SA-PZ147-20171201 0.25163	24-Dec-17	05:43:10
92	171223M1_92	1701832-10 SA-SW201-20171201 0.24837	24-Dec-17	05:54:22
93	171223M1_93	IPA	24-Dec-17	06:05:32
94	171223M1_94	ST171223M1-15 PFC CS3 17K2810	24-Dec-17	06:16:43
95	171223M1_95	IPA	24-Dec-17	06:27:54
96	171223M1_96	1701832-11 SW-DP01-20171201 0.26032	24-Dec-17	06:39:04
97	171223M1_97	1701832-12 SA-SW204-20171201 0.25842	24-Dec-17	06:50:15
98	171223M1_98	1701832-13 SA-SW204-FRB-20171201 0.259...	24-Dec-17	07:01:25
99	171223M1_99	1701841-06 OF-FB-120117 0.11813	24-Dec-17	07:12:36

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Last Altered: Tuesday, December 26, 2017 14:28:59 Pacific Standard Time

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Compound name: PFBA

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101	171223M1_101	B7L0153-BS1 OPR 1	24-Dec-17	07:34:58
102	171223M1_102	B7L0153-BLK1 Method Blank 1	24-Dec-17	07:46:09
103	171223M1_103	B7L0153-MS1 Matrix Spike 1	24-Dec-17	07:57:19
104	171223M1_104	B7L0153-MSD1 Matrix Spike Dup 1	24-Dec-17	08:08:30
105	171223M1_105	1701837-01 MARTN-03-SB01-2-4 1	24-Dec-17	08:19:40
106	171223M1_106	1701837-02 MARTN-03-SB01-5-7 1	24-Dec-17	08:30:51
107	171223M1_107	1701837-03 MARTN-03-SB02-1-3 1	24-Dec-17	08:42:02
108	171223M1_108	1701837-04 MARTN-03-SB02-4-6 1	24-Dec-17	08:53:12
109	171223M1_109	1701837-05 MARTN-03-SB03-0-2 1	24-Dec-17	09:04:23
110	171223M1_110	1701837-06 MARTN-03-SB03-6-8 1	24-Dec-17	09:15:34
111	171223M1_111	1701837-07 MARTN-06-SB03-2-4 1	24-Dec-17	09:26:45
112	171223M1_112	1701837-08 MARTN-06-SB03-6-8 1	24-Dec-17	09:37:55
113	171223M1_113	1701837-09 MARTN-06-SB04-0-2-1	24-Dec-17	09:49:06
114	171223M1_114	1701837-10 MARTN-08-SB04-10-12 1	24-Dec-17	10:00:17
115	171223M1_115	1701837-11 MARTN-06-SB04-2-4 1	24-Dec-17	10:11:27
116	171223M1_116	IPA	24-Dec-17	10:22:38
117	171223M1_117	ST171223M1-16 PFC CS3 17K2810	24-Dec-17	10:33:49
118	171223M1_118	IPA	24-Dec-17	10:45:00
119	171223M1_119	1701837-08 MARTN-06-SB03-6-8 1	24-Dec-17	10:56:10
120	171223M1_120	1701837-09 MARTN-06-SB04-0-2 1	24-Dec-17	11:07:21
121	171223M1_121	1701837-10 MARTN-08-SB04-10-12 1	24-Dec-17	11:18:32
122	171223M1_122	1701837-11 MARTN-08-SB04-2-4 1	24-Dec-17	11:29:42
123	171223M1_123	IPA	24-Dec-17	11:40:53
124	171223M1_124	ST171223M1-17 PFC CS0 17L1204	24-Dec-17	11:52:04
125	171223M1_125	IPA	24-Dec-17	12:03:15
126	171223M1_126	ST171223M1-18 PFC CS3 17K2810	24-Dec-17	12:14:28

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Last Altered: Tuesday, December 26, 2017 13:11:31 Pacific Standard Time

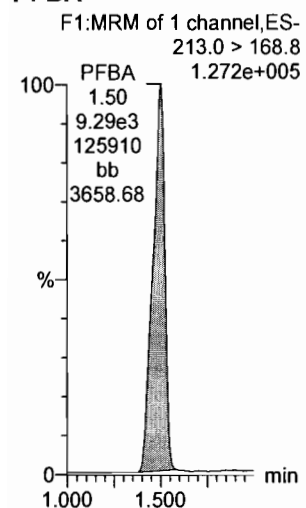
Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317B.mdb 26 Dec 2017 13:06:55

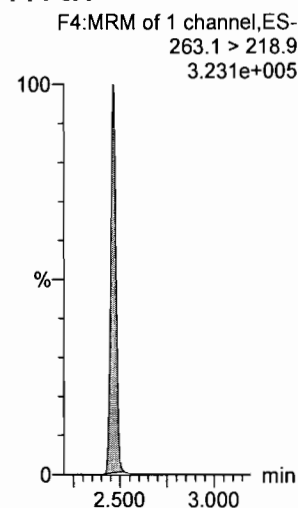
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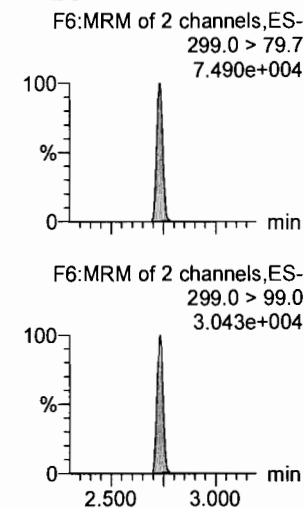
PFBA



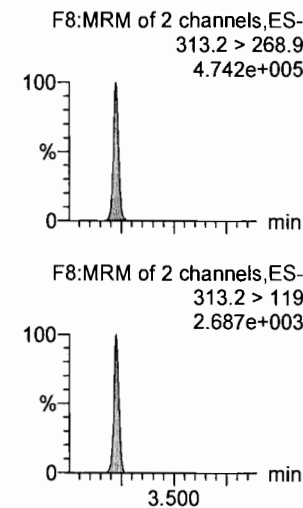
PFPeA



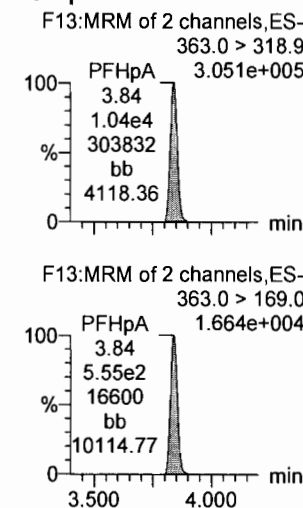
PFBS



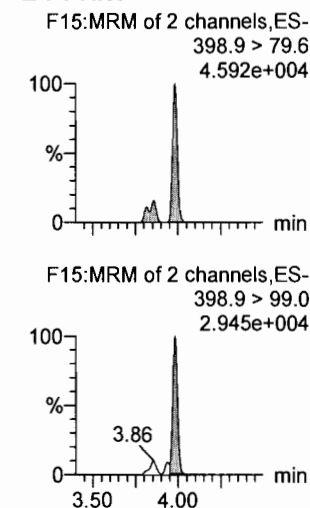
PFHxA



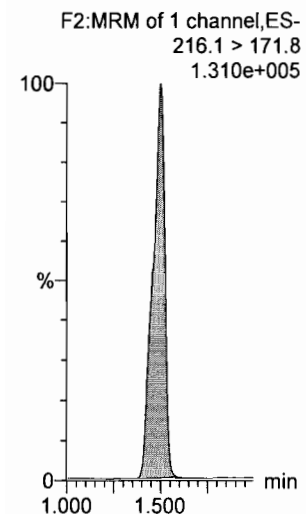
PFHpA



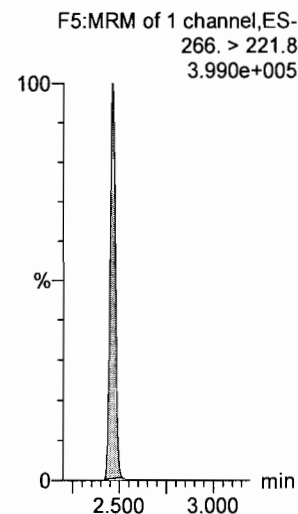
L-PFHxS



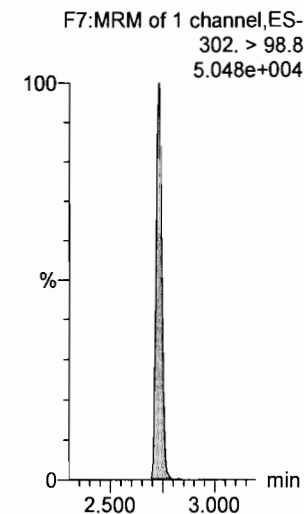
13C3-PFBA



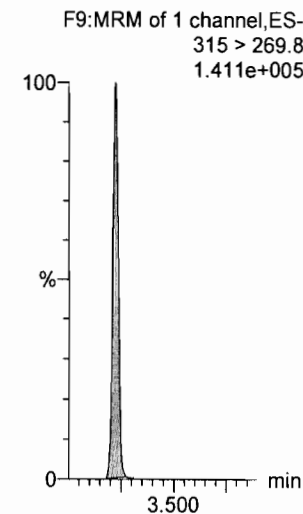
13C3-PFPeA



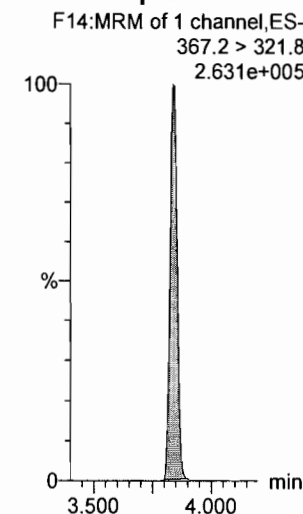
13C3-PFBS



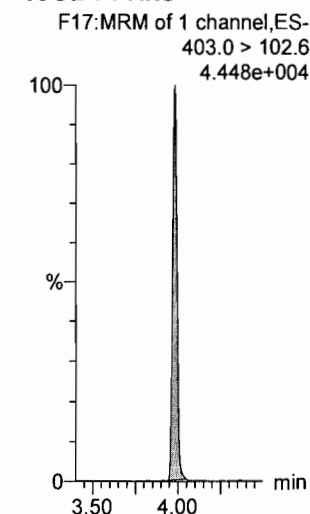
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\171223M1\171223M1-29.qld

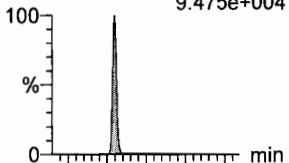
Last Altered: Tuesday, December 26, 2017 13:11:31 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

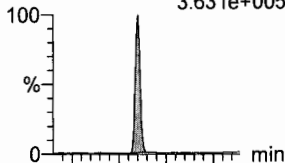
6:2 FTS

F21:MRM of 2 channels,ES-
427.1 > 407
9.475e+004



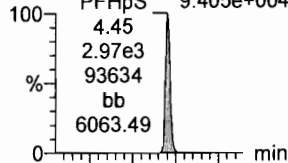
L-PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
3.631e+005



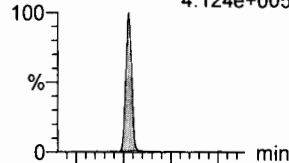
PFHpS

F23:MRM of 2 channels,ES-
449 > 80.0
9.405e+004



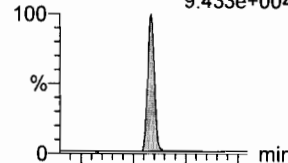
PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
4.124e+005



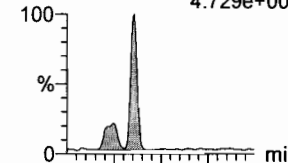
PFOSA

F27:MRM of 2 channels,ES-
498.1 > 77.8
9.433e+004

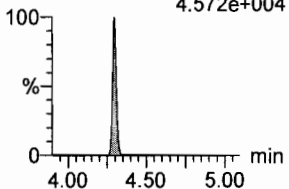


L-PFOS

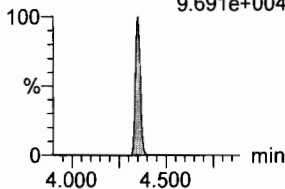
F29:MRM of 2 channels,ES-
499 > 79.9
4.729e+004



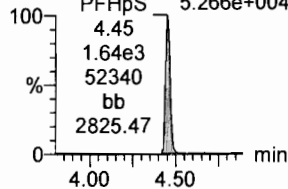
F21:MRM of 2 channels,ES-
427.1 > 80
4.572e+004



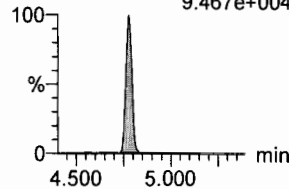
F18:MRM of 2 channels,ES-
413 > 169
9.691e+004



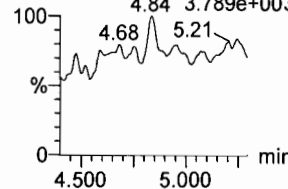
F23:MRM of 2 channels,ES-
449 > 98.7
5.266e+004



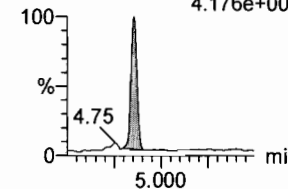
F24:MRM of 2 channels,ES-
463.0 > 219.0
9.467e+004



F27:MRM of 2 channels,ES-
498.1 > 478
3.789e+003

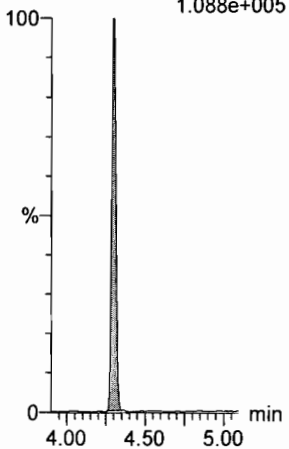


F29:MRM of 2 channels,ES-
499 > 99
4.176e+004



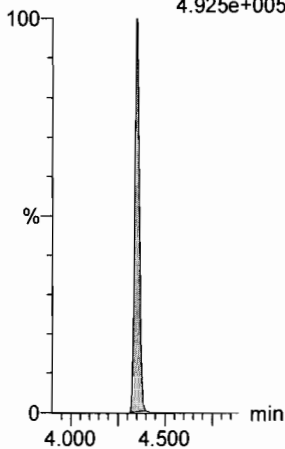
13C2-6:2 FTS

F22:MRM of 1 channel,ES-
429.1 > 408.9
1.088e+005



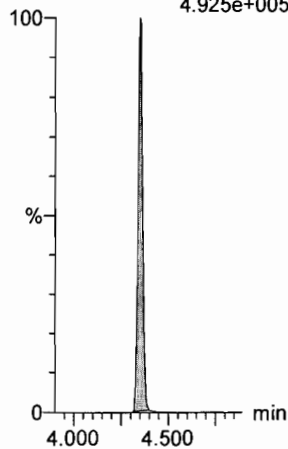
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
4.925e+005



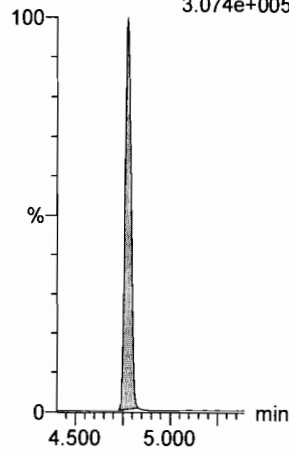
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
4.925e+005



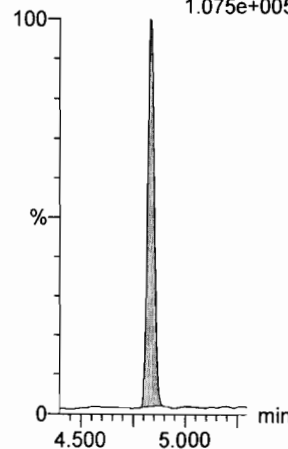
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
3.074e+005



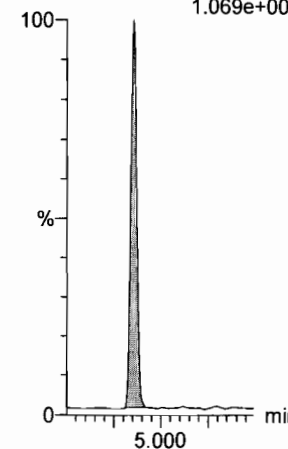
13C8-PFOSA

F31:MRM of 1 channel,ES-
506.1 > 77.7
1.075e+005



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
1.069e+005



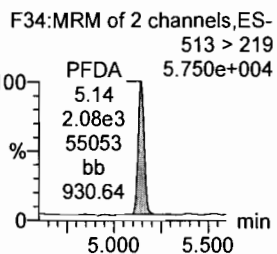
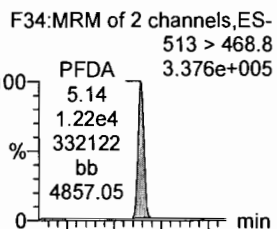
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Last Altered: Tuesday, December 26, 2017 13:11:31 Pacific Standard Time

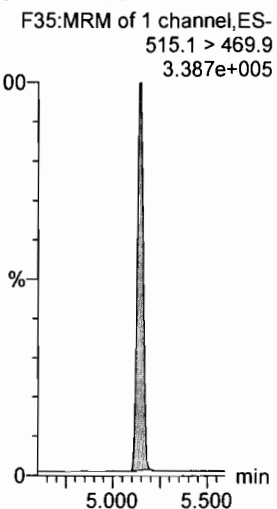
Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

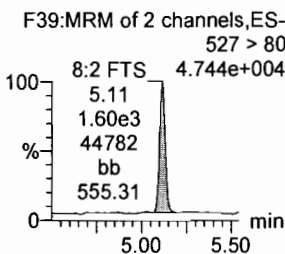
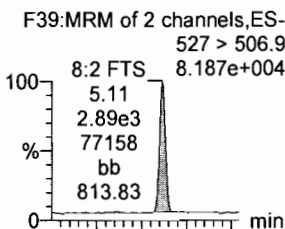
PFDA



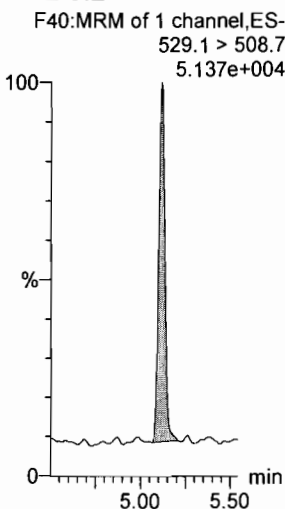
13C2-PFDA



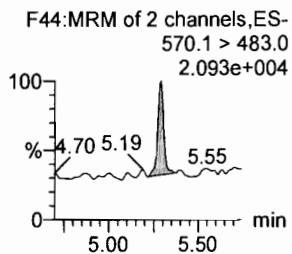
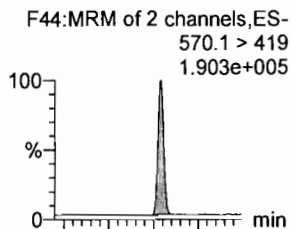
8:2 FTS



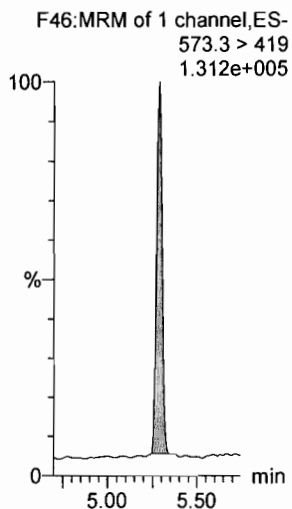
13C2-8:2 FTS



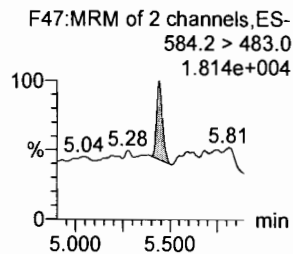
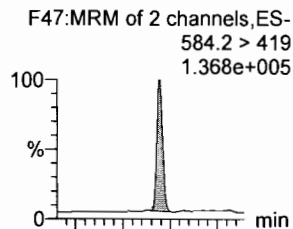
N-MeFOSAA



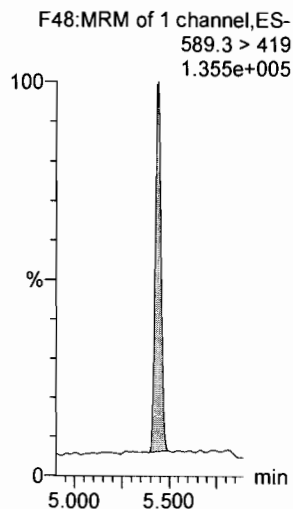
d3-N-MeFOSAA



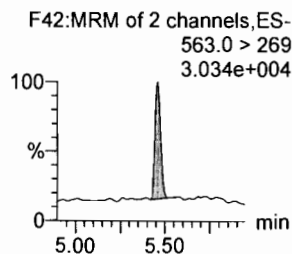
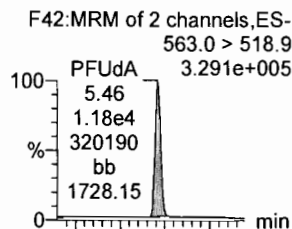
N-EtFOSAA



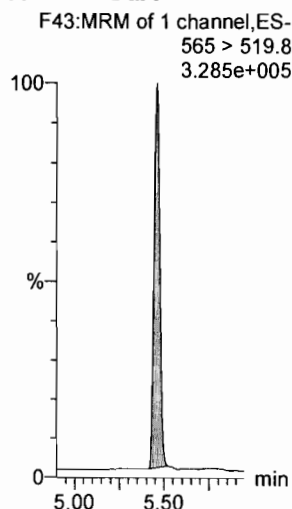
d5-N-EtFOSAA



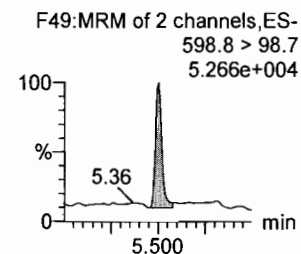
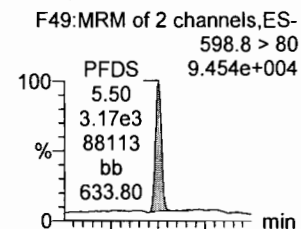
PFUdA



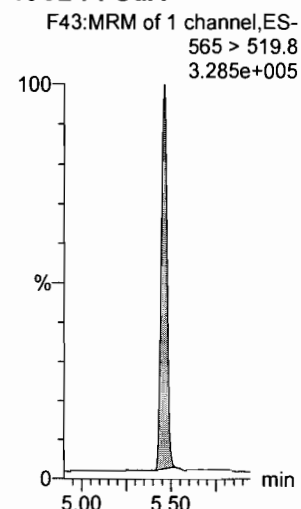
13C2-PFUdA



PFDS



13C2-PFUdA



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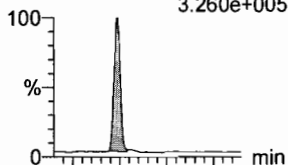
Last Altered: Tuesday, December 26, 2017 13:11:31 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

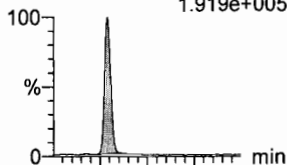
PFDoA

F50:MRM of 2 channels,ES-
612.9 > 569.0
3.260e+005



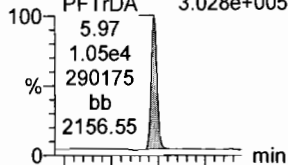
N-MeFOSA

F33:MRM of 2 channels,ES-
512.1 > 168.9
1.919e+005



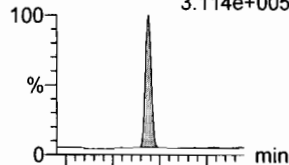
PFTrDA

F56:MRM of 2 channels,ES-
662.9 > 618.9
3.028e+005



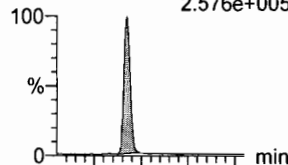
PFTeDA

F57:MRM of 2 channels,ES-
712.9 > 668.8
3.114e+005



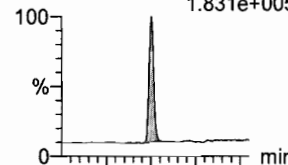
N-EtFOSA

F38:MRM of 2 channels,ES-
526.1 > 168.9
2.576e+005

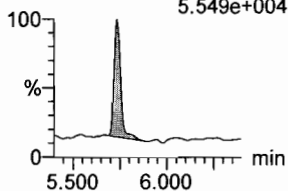


PFHxDA

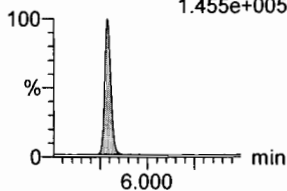
F59:MRM of 2 channels,ES-
813.1 > 768.6
1.831e+005



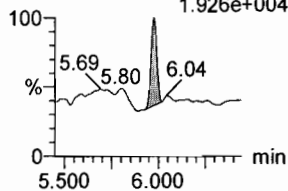
F50:MRM of 2 channels,ES-
612.9 > 318.8
5.549e+004



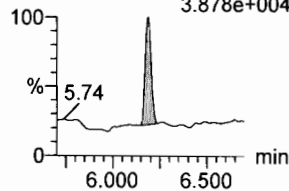
F33:MRM of 2 channels,ES-
512.1 > 219
1.455e+005



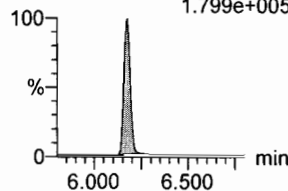
F56:MRM of 2 channels,ES-
662.9 > 319
1.926e+004



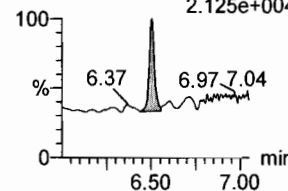
F57:MRM of 2 channels,ES-
712.9 > 369
3.878e+004



F38:MRM of 2 channels,ES-
526.1 > 219
1.799e+005

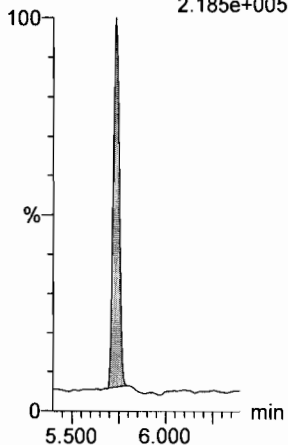


F59:MRM of 2 channels,ES-
813.1 > 219
2.125e+004



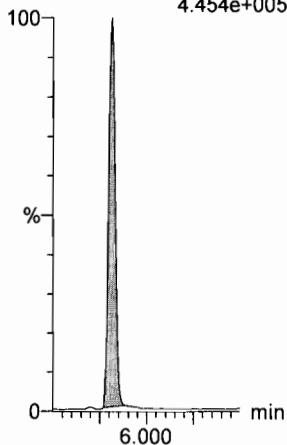
13C2-PFDoA

F51:MRM of 1 channel,ES-
615.0 > 569.7
2.185e+005



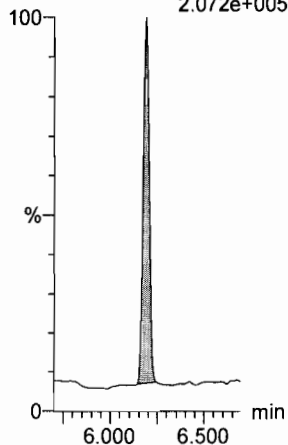
d3-N-MeFOSA

F36:MRM of 1 channel,ES-
515.2 > 168.9
4.454e+005



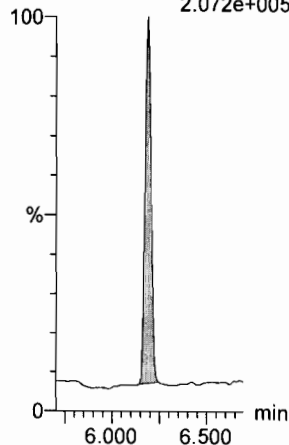
13C2-PFTeDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
2.072e+005



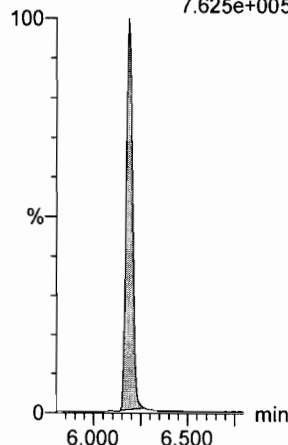
13C2-PFTeDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
2.072e+005



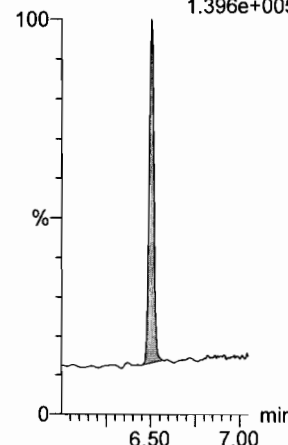
d5-N-ETFOSA

F41:MRM of 1 channel,ES-
531.1 > 168.9
7.625e+005



13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.396e+005



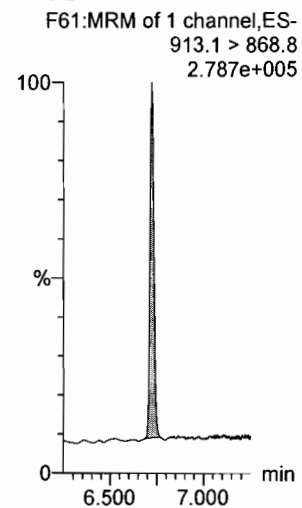
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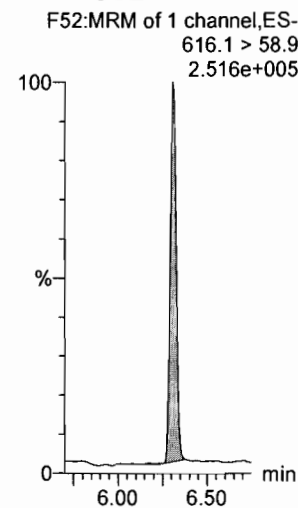
Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

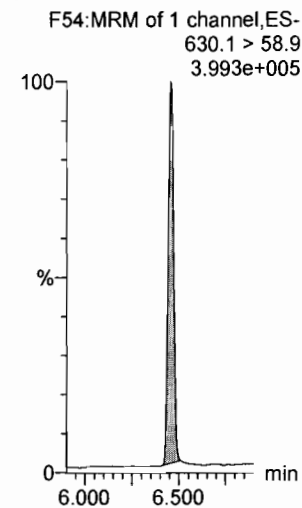
PFODA



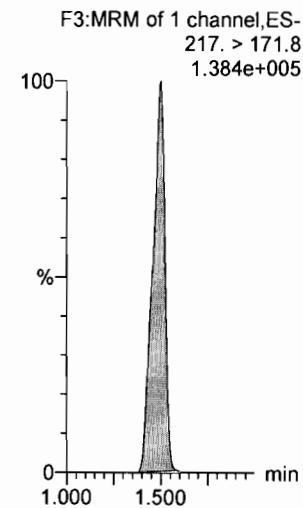
N-MeFOSE



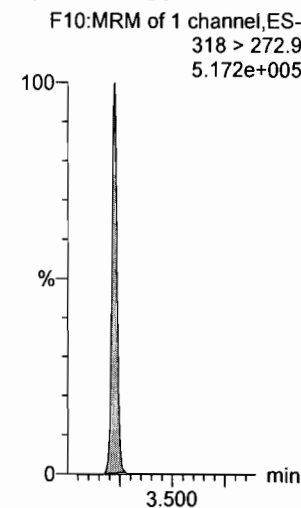
N-EtFOSE



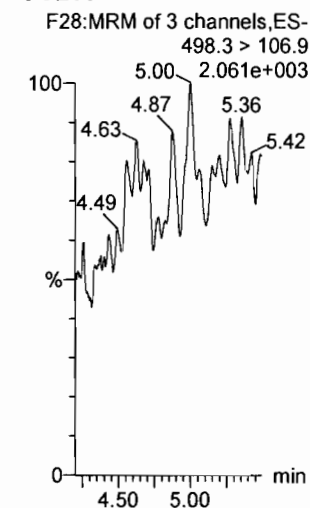
13C4-PFBA



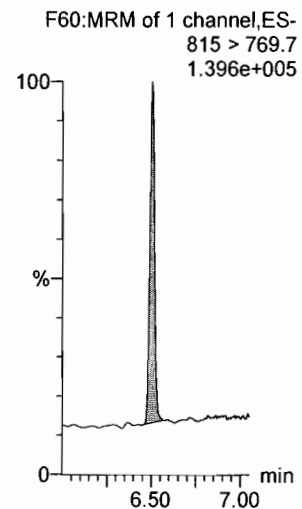
13C5-PFHxA



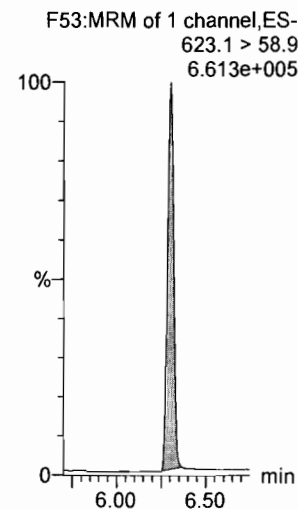
TCDA



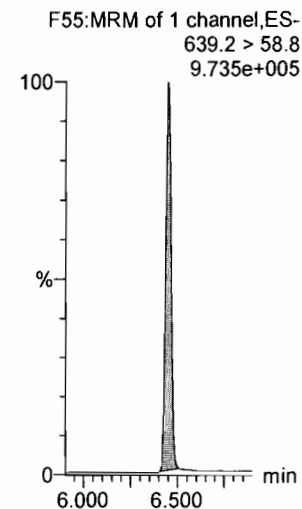
13C2-PFHxDA



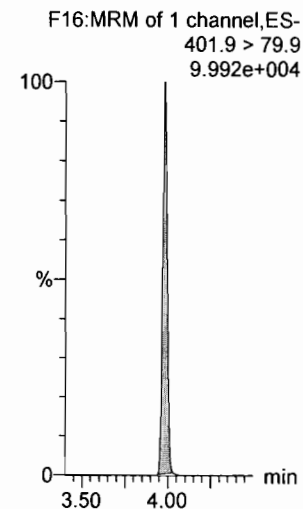
d7-N-MeFOSE



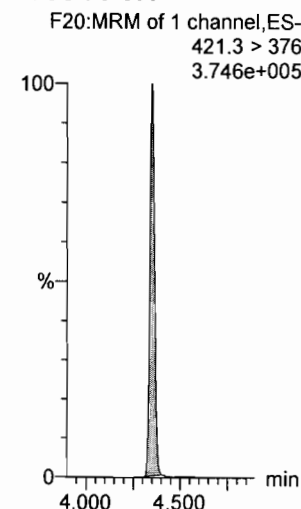
d9-N-EtFOSE



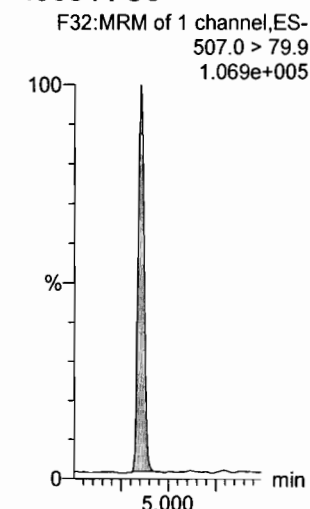
13C3-PFHxS



13C8-PFOA



13C8-PFOS



Dataset: U:\Q4.PRO\results\171223M1\171223M1-29.qld

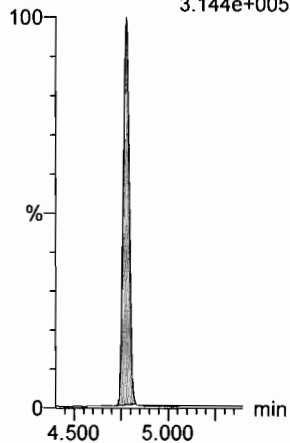
Last Altered: Tuesday, December 26, 2017 13:11:31 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:12:04 Pacific Standard Time

Name: 171223M1_29, Date: 23-Dec-2017, Time: 18:10:05, ID: ST171223M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

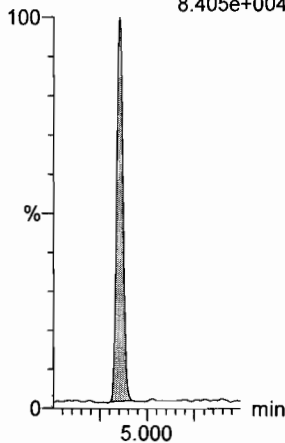
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.144e+005



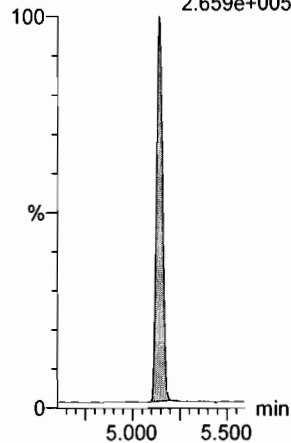
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
8.405e+004



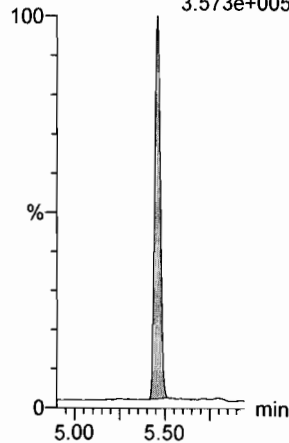
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.659e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
3.573e+005



INITIAL CALIBRATION (ICAL)
INCLUDING ASSOCIATED
INITIAL CALIBRATION VERIFICATION (ICV) AND INSTRUMENT BLANK (IB)

NO CS-2.

Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:59:16 Pacific Standard Time
 Printed: Tuesday, December 26, 2017 12:00:41 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317.mdb 26 Dec 2017 10:53:30
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

AC
 12/26/17
 JHA
 12/26/2017

Compound name: PFBA

Correlation coefficient: $r = 0.999741$, $r^2 = 0.999481$

Calibration curve: $1.22681 * x + -0.0376677$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	0.500	1.52	847.949	17994.318	0.589	0.5	2.2	NO	0.999	NO	bb
2	171223M1_4	Standard	1.000	1.52	736.780	7812.783	1.179	1.0	-0.8	NO	0.999	NO	bb
3	171223M1_5	Standard	2.000	1.52	1487.484	8334.820	2.231	1.8	-7.5	NO	0.999	NO	bb
4	171223M1_6	Standard	5.000	1.53	3666.674	7322.210	6.260	5.1	2.7	NO	0.999	NO	bb
5	171223M1_7	Standard	10.000	1.50	8138.953	8198.792	12.409	10.1	1.5	NO	0.999	NO	bb
6	171223M1_8	Standard	50.000	1.50	38831.055	8147.266	59.577	48.6	-2.8	NO	0.999	NO	bb
7	171223M1_9	Standard	100.000	1.50	76769.531	8057.050	119.103	97.1	-2.9	NO	0.999	NO	bb
8	171223M1_10	Standard	250.000	1.50	213881.188	8575.222	311.772	254.2	1.7	NO	0.999	NO	bb

Compound name: PFPeA

Correlation coefficient: $r = 0.999585$, $r^2 = 0.999171$

Calibration curve: $1.08211 * x + -0.0757797$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	0.500	2.49	1027.915	23789.955	0.540	0.6	13.8	NO	0.999	NO	bb
2	171223M1_4	Standard	1.000	2.49	843.148	10682.894	0.987	1.0	-1.8	NO	0.999	NO	bb
3	171223M1_5	Standard	2.000	2.50	1714.000	10941.800	1.958	1.9	-6.0	NO	0.999	NO	bb
4	171223M1_6	Standard	5.000	2.50	4131.124	9841.218	5.247	4.9	-1.6	NO	0.999	NO	bb
5	171223M1_7	Standard	10.000	2.47	9206.621	10734.116	10.721	10.0	-0.2	NO	0.999	NO	bb
6	171223M1_8	Standard	50.000	2.47	43219.059	10760.758	50.204	46.5	-7.1	NO	0.999	NO	bb
7	171223M1_9	Standard	100.000	2.46	91819.453	10363.562	110.748	102.4	2.4	NO	0.999	NO	bb
8	171223M1_10	Standard	250.000	2.46	236291.594	10864.921	271.851	251.3	0.5	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:59:16 Pacific Standard Time
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Compound name: PFBS

Correlation coefficient: $r = 0.999231$, $r^2 = 0.998463$

Calibration curve: $2.17657 * x + -0.0833936$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	2.76	275.700	2998.479	1.149	0.6	13.3	NO	0.998	NO	bb
2	2 171223M1_4	Standard	1.000	2.76	226.183	1395.058	2.027	1.0	-3.1	NO	0.998	NO	bb
3	3 171223M1_5	Standard	2.000	2.77	457.398	1385.118	4.128	1.9	-3.3	NO	0.998	NO	bb
4	4 171223M1_6	Standard	5.000	2.76	1131.863	1333.521	10.610	4.9	-1.7	NO	0.998	NO	bb
5	5 171223M1_7	Standard	10.000	2.74	2417.713	1406.038	21.494	9.9	-0.9	NO	0.998	NO	bb
6	6 171223M1_8	Standard	50.000	2.74	11157.333	1408.391	99.026	45.5	-8.9	NO	0.998	NO	bb
7	7 171223M1_9	Standard	100.000	2.73	22641.914	1244.414	227.436	104.5	4.5	NO	0.998	NO	bb
8	8 171223M1_10	Standard	250.000	2.73	59612.781	1368.872	544.360	250.1	0.1	NO	0.998	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999920$, $r^2 = 0.999840$

Calibration curve: $1.47592 * x + 0.00298164$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	3.26	1374.484	8694.609	0.790	0.5	6.7	NO	1.000	NO	bb
2	2 171223M1_4	Standard	1.000	3.26	1019.045	3570.562	1.427	1.0	-3.5	NO	1.000	NO	bb
3	3 171223M1_5	Standard	2.000	3.26	2226.071	3942.462	2.823	1.9	-4.5	NO	1.000	NO	bb
4	4 171223M1_6	Standard	5.000	3.26	5246.238	3590.858	7.305	4.9	-1.1	NO	1.000	NO	bb
5	5 171223M1_7	Standard	10.000	3.23	11904.539	3947.164	15.080	10.2	2.2	NO	1.000	NO	bb
6	6 171223M1_8	Standard	50.000	3.23	57533.371	3945.012	72.919	49.4	-1.2	NO	1.000	NO	bb
7	7 171223M1_9	Standard	100.000	3.22	113777.875	3781.823	150.427	101.9	1.9	NO	1.000	NO	bb
8	8 171223M1_10	Standard	250.000	3.22	285917.094	3896.129	366.925	248.6	-0.6	NO	1.000	NO	bb

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Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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Compound name: PFHpA

Correlation coefficient: $r = 0.997525$, $r^2 = 0.995057$

Calibration curve: $1.57627 * x + -0.166333$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	3.87	1018.582	16901.430	0.753	0.6	16.7	NO	0.995	NO	bb
2	2 171223M1_4	Standard	1.000	3.87	793.013	7616.221	1.302	0.9	-6.9	NO	0.995	NO	bb
3	3 171223M1_5	Standard	2.000	3.87	1755.081	7863.394	2.790	1.9	-6.2	NO	0.995	NO	bb
4	4 171223M1_6	Standard	5.000	3.87	3767.594	6048.709	7.786	5.0	0.9	NO	0.995	NO	bb
5	5 171223M1_7	Standard	10.000	3.85	9469.161	7136.541	16.586	10.6	6.3	NO	0.995	NO	bb
6	6 171223M1_8	Standard	50.000	3.84	42679.914	7150.720	74.608	47.4	-5.1	NO	0.995	NO	bb
7	7 171223M1_9	Standard	100.000	3.84	80612.570	7169.270	140.552	89.3	-10.7	NO	0.995	NO	bb
8	8 171223M1_10	Standard	250.000	3.84	222856.484	6729.385	413.961	262.7	5.1	NO	0.995	NO	bb

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.998968$

Calibration curve: $0.00268117 * x^2 + 1.7082 * x + 0.386487$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	4.02	226.175	2745.585	1.030	0.4	-24.7	NO	0.999	NO	MM
2	2 171223M1_4	Standard	1.000	4.02	193.140	1242.145	1.944	0.9	-9.0	NO	0.999	NO	MM
3	3 171223M1_5	Standard	2.000	4.02	371.599	1094.748	4.243	2.2	12.5	NO	0.999	NO	MM
4	4 171223M1_6	Standard	5.000	4.02	894.132	1179.045	9.479	5.3	5.6	NO	0.999	NO	MM
5	5 171223M1_7	Standard	10.000	3.99	1996.354	1207.269	20.670	11.7	16.6	NO	0.999	NO	MM
6	6 171223M1_8	Standard	50.000	3.99	8985.023	1183.342	94.912	51.2	2.4	NO	0.999	NO	MM
7	7 171223M1_9	Standard	100.000	3.99	16777.992	1108.397	189.215	96.1	-3.9	NO	0.999	NO	MM
8	8 171223M1_10	Standard	250.000	3.98	49521.055	1035.276	597.921	251.0	0.4	NO	0.999	NO	MM

Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.994035$

Calibration curve: $-0.00362685 * x^2 + 1.16626 * x + -0.189191$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	4.33	226.671	5437.702	0.521	0.6	22.0	NO	0.994	NO	bb
2	2 171223M1_4	Standard	1.000	4.33	155.849	2406.816	0.809	0.9	-14.1	NO	0.994	NO	bb
3	3 171223M1_5	Standard	2.000	4.33	470.115	2362.012	2.488	2.3	15.6	NO	0.994	NO	bb
4	4 171223M1_6	Standard	5.000	4.33	858.243	2383.614	4.501	4.1	-18.5	NO	0.994	NO	bb
5	5 171223M1_7	Standard	10.000	4.31	2353.778	2951.821	9.967	9.0	-10.4	NO	0.994	NO	bb
6	6 171223M1_8	Standard	50.000	4.30	12248.059	2917.458	52.477	54.3	8.7	NO	0.994	NO	bb
7	7 171223M1_9	Standard	100.000	4.30	22123.820	3517.560	78.619	96.6	-3.4	NO	0.994	NO	bb
8	8 171223M1_10	Standard	250.000	4.30	53586.000	4911.835	136.370			NO	0.994	NO	bbXI

Compound name: L-PFOA

Correlation coefficient: $r = 0.999054$, $r^2 = 0.998110$

Calibration curve: $1.02207 * x + 0.187333$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	4.38	1626.293	29070.084	0.699	0.5	0.2	NO	0.998	NO	bb
2	2 171223M1_4	Standard	1.000	4.38	1112.228	11628.936	1.196	1.0	-1.4	NO	0.998	NO	bb
3	3 171223M1_5	Standard	2.000	4.38	1962.915	11299.322	2.171	1.9	-2.9	NO	0.998	NO	bb
4	4 171223M1_6	Standard	5.000	4.38	4329.695	10632.304	5.090	4.8	-4.1	NO	0.998	NO	bb
5	5 171223M1_7	Standard	10.000	4.36	10077.515	11618.473	10.842	10.4	4.2	NO	0.998	NO	bb
6	6 171223M1_8	Standard	50.000	4.35	46207.969	10319.918	55.969	54.6	9.2	NO	0.998	NO	bb
7	7 171223M1_9	Standard	100.000	4.35	81450.563	10529.178	96.696	94.4	-5.6	NO	0.998	NO	bb
8	8 171223M1_10	Standard	250.000	4.35	224675.688	10946.136	256.570	250.8	0.3	NO	0.998	NO	bb

Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.997237$

Calibration curve: $0.000201701 * x^2 + 0.262646 * x + -0.055596$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	4.49	204.335	29070.084	0.088	0.5	9.2	NO	0.997	NO	bb
2	2 171223M1_4	Standard	1.000	4.49	199.468	11628.936	0.214	1.0	2.7	NO	0.997	NO	bb
3	3 171223M1_5	Standard	2.000	4.49	482.388	11299.322	0.534	2.2	12.0	NO	0.997	NO	bb
4	4 171223M1_6	Standard	5.000	4.49	769.562	10632.304	0.905	3.6	-27.1	NO	0.997	NO	bb
5	5 171223M1_7	Standard	10.000	4.46	2417.975	11618.473	2.601	10.0	0.4	NO	0.997	NO	bb
6	6 171223M1_8	Standard	50.000	4.46	11624.617	10319.918	14.080	51.8	3.5	NO	0.997	NO	bb
7	7 171223M1_9	Standard	100.000	4.46	23578.439	10529.178	27.992	99.2	-0.8	NO	0.997	NO	bb
8	8 171223M1_10	Standard	250.000	4.46	50987.738	10946.136	58.226	193.2	-22.7	NO	0.997	NO	bbX

Compound name: PFNA

Coefficient of Determination: $R^2 = 0.999053$

Calibration curve: $0.000799864 * x^2 + 1.29901 * x + 0.480274$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	4.81	1138.411	21497.289	0.662	0.1	-72.0	NO	0.999	NO	bbX
2	2 171223M1_4	Standard	1.000	4.81	1001.375	8353.565	1.498	0.8	-21.7	NO	0.999	NO	bb
3	3 171223M1_5	Standard	2.000	4.81	2132.441	7206.182	3.699	2.5	23.7	NO	0.999	NO	bb
4	4 171223M1_6	Standard	5.000	4.81	4868.435	9205.159	6.611	4.7	-5.9	NO	0.999	NO	bb
5	5 171223M1_7	Standard	10.000	4.79	10935.817	9453.199	14.460	10.7	6.9	NO	0.999	NO	bb
6	6 171223M1_8	Standard	50.000	4.78	54603.641	10707.614	63.744	47.3	-5.4	NO	0.999	NO	bb
7	7 171223M1_9	Standard	100.000	4.78	100732.844	8872.727	141.914	102.4	2.4	NO	0.999	NO	bb
8	8 171223M1_10	Standard	250.000	4.78	292830.531	9773.636	374.516	249.6	-0.2	NO	0.999	NO	bb

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Compound name: PFOSA

Coefficient of Determination: $R^2 = 0.996420$

Calibration curve: $0.000924781 * x^2 + 0.875169 * x + 0.132952$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	4.87	320.266	6800.062	0.589	0.5	4.1	NO	0.996	NO	bb
2	2 171223M1_4	Standard	1.000	4.87	201.368	3342.281	0.753	0.7	-29.2	NO	0.996	NO	bb
3	3 171223M1_5	Standard	2.000	4.87	507.916	3709.799	1.711	1.8	-10.0	NO	0.996	NO	bb
4	4 171223M1_6	Standard	5.000	4.87	1273.372	3151.682	5.050	5.6	11.7	NO	0.996	NO	bb
5	5 171223M1_7	Standard	10.000	4.84	3471.246	3944.223	11.001	12.3	22.6	NO	0.996	NO	bb
6	6 171223M1_8	Standard	50.000	4.84	14646.904	3659.101	50.036	53.9	7.9	NO	0.996	NO	bb
7	7 171223M1_9	Standard	100.000	4.84	26381.838	3730.979	88.388	91.9	-8.1	NO	0.996	NO	bb
8	8 171223M1_10	Standard	250.000	4.84	70085.148	3136.953	279.272	251.9	0.8	NO	0.996	NO	bb

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.996035$

Calibration curve: $0.000304558 * x^2 + 1.09449 * x + -0.0102225$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	4.89	279.634	6933.729	0.504	0.5	-6.0	NO	0.996	NO	MM
2	2 171223M1_4	Standard	1.000	4.89	302.342	3075.166	1.229	1.1	13.2	NO	0.996	NO	MM
3	3 171223M1_5	Standard	2.000	4.89	423.327	2979.508	1.776	1.6	-18.4	NO	0.996	NO	MM
4	4 171223M1_6	Standard	5.000	4.88	1279.078	2373.349	6.737	6.2	23.1	NO	0.996	NO	MM
5	5 171223M1_7	Standard	10.000	4.86	2786.544	3488.088	9.986	9.1	-8.9	NO	0.996	NO	MM
6	6 171223M1_8	Standard	50.000	4.86	11851.856	3026.746	48.946	44.2	-11.6	NO	0.996	NO	MM
7	7 171223M1_9	Standard	100.000	4.86	27737.725	2861.426	121.171	107.5	7.5	NO	0.996	NO	MM
8	8 171223M1_10	Standard	250.000	4.86	61014.703	2625.461	290.495	248.3	-0.7	NO	0.996	NO	MM

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Compound name: PFDA

Coefficient of Determination: R^2 = 0.994627

Calibration curve: $-0.0124233 * x^2 + 1.85696 * x + -0.421126$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	5.18	973.234	21981.609	0.553	0.5	5.3	NO	0.995	NO	MM
2	2 171223M1_4	Standard	1.000	5.18	952.525	8008.281	1.487	1.0	3.5	NO	0.995	NO	MM
3	3 171223M1_5	Standard	2.000	5.18	2074.627	8184.718	3.168	2.0	-2.1	NO	0.995	NO	bb
4	4 171223M1_6	Standard	5.000	5.18	5393.337	9334.163	7.223	4.2	-15.3	NO	0.995	NO	bb
5	5 171223M1_7	Standard	10.000	5.15	12407.007	8449.764	18.354	10.9	9.1	NO	0.995	NO	bb
6	6 171223M1_8	Standard	50.000	5.15	51447.313	10505.740	61.213	49.7	-0.5	NO	0.995	NO	bb
7	7 171223M1_9	Standard	100.000	5.14	116729.477	10775.385	135.412			NO	0.995	NO	bbXI
8	8 171223M1_10	Standard	250.000	5.14	288077.156	10215.163	352.512			NO	0.995	NO	bbXI

Compound name: 8:2 FTS

Coefficient of Determination: R^2 = 0.995170

Calibration curve: $-0.0100044 * x^2 + 2.09864 * x + -0.164321$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	5.15	217.334	3165.819	0.858	0.5	-2.3	NO	0.995	NO	bb
2	2 171223M1_4	Standard	1.000	5.15	226.636	1357.299	2.087	1.1	7.8	NO	0.995	NO	MM
3	3 171223M1_5	Standard	2.000	5.15	322.594	1429.227	2.821	1.4	-28.4	NO	0.995	NO	bb
4	4 171223M1_6	Standard	5.000	5.15	914.032	1105.108	10.339	5.1	2.6	NO	0.995	NO	bb
5	5 171223M1_7	Standard	10.000	5.12	2667.782	1605.892	20.766	10.5	5.0	NO	0.995	NO	bb
6	6 171223M1_8	Standard	50.000	5.12	10409.070	1634.889	79.585	49.8	-0.3	NO	0.995	NO	bb
7	7 171223M1_9	Standard	100.000	5.12	19415.432	2004.146	121.095			NO	0.995	NO	bbXI
8	8 171223M1_10	Standard	250.000	5.12	54208.488	2644.382	256.244			NO	0.995	NO	bbXI

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.991914$

Calibration curve: $-0.00289647 * x^2 + 2.15686 * x + -0.133628$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	5.33	689.026	7901.586	1.090	0.6	13.6	NO	0.992	NO	bb
2	2 171223M1_4	Standard	1.000	5.33	545.708	3731.108	1.828	0.9	-8.9	NO	0.992	NO	bb
3	3 171223M1_5	Standard	2.000	5.33	1095.547	3679.171	3.722	1.8	-10.4	NO	0.992	NO	bb
4	4 171223M1_6	Standard	5.000	5.32	2535.062	3278.825	9.665	4.6	-8.6	NO	0.992	NO	bb
5	5 171223M1_7	Standard	10.000	5.30	7352.569	3970.306	23.149	11.0	9.6	NO	0.992	NO	bb
6	6 171223M1_8	Standard	50.000	5.30	30833.047	3361.045	114.671	57.7	15.4	NO	0.992	NO	bb
7	7 171223M1_9	Standard	100.000	5.29	54663.176	4097.629	166.752	87.7	-12.3	NO	0.992	NO	bb
8	8 171223M1_10	Standard	250.000	5.29	126787.734	4364.913	363.088	257.3	2.9	NO	0.992	NO	bb

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.991296$

Calibration curve: $-0.00398643 * x^2 + 1.35225 * x + -0.140973$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	5.48	534.903	13758.916	0.486	0.5	-7.1	NO	0.991	NO	bb
2	2 171223M1_4	Standard	1.000	5.48	540.848	4454.182	1.518	1.2	23.1	NO	0.991	NO	bb
3	3 171223M1_5	Standard	2.000	5.48	665.624	4030.460	2.064	1.6	-18.1	NO	0.991	NO	bb
4	4 171223M1_6	Standard	5.000	5.48	1830.262	3835.197	5.965	4.6	-8.5	NO	0.991	NO	bb
5	5 171223M1_7	Standard	10.000	5.45	4274.259	5003.810	10.678	8.2	-18.0	NO	0.991	NO	bb
6	6 171223M1_8	Standard	50.000	5.45	20479.182	4054.409	63.139	56.1	12.1	NO	0.991	NO	bb
7	7 171223M1_9	Standard	100.000	5.44	36005.805	4856.795	92.669	95.5	-4.5	NO	0.991	NO	bb
8	8 171223M1_10	Standard	250.000	5.44	91568.766	4323.479	264.743			NO	0.991	NO	bbXI

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Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.998895$
 Calibration curve: $-0.000802257 * x^2 + 1.25313 * x + -0.188737$
 Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	0.500	5.49	1237.245	25040.082	0.618	0.6	28.7	NO	0.999	NO	bb
2	171223M1_4	Standard	1.000	5.49	924.499	10648.675	1.085	1.0	1.7	NO	0.999	NO	bb
3	171223M1_5	Standard	2.000	5.49	1838.132	11404.919	2.015	1.8	-12.0	NO	0.999	NO	bb
4	171223M1_6	Standard	5.000	5.49	3981.477	10729.511	4.638	3.9	-22.8	NO	0.999	NO	bb
5	171223M1_7	Standard	10.000	5.47	8762.164	8739.428	12.533	10.2	2.2	NO	0.999	NO	bb
6	171223M1_8	Standard	50.000	5.46	53799.727	10950.285	61.414	50.8	1.6	NO	0.999	NO	bb
7	171223M1_9	Standard	100.000	5.46	86745.195	9198.628	117.878	100.7	0.7	NO	0.999	NO	bb
8	171223M1_10	Standard	250.000	5.46	253647.531	12079.747	262.472	249.4	-0.2	NO	0.999	NO	bb

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.991442$
 Calibration curve: $-0.000320388 * x^2 + 0.336547 * x + 0.0338867$
 Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	0.500	5.54	316.125	25040.082	0.158	0.4	-26.3	NO	0.991	NO	bb
2	171223M1_4	Standard	1.000	5.53	366.027	10648.675	0.430	1.2	17.7	NO	0.991	NO	bb
3	171223M1_5	Standard	2.000	5.54	666.963	11404.919	0.731	2.1	3.8	NO	0.991	NO	db
4	171223M1_6	Standard	5.000	5.53	1239.260	10729.511	1.444	4.2	-15.9	NO	0.991	NO	bb
5	171223M1_7	Standard	10.000	5.51	3043.436	8739.428	4.353	13.0	29.9	NO	0.991	NO	bb
6	171223M1_8	Standard	50.000	5.51	11995.016	10950.285	13.693	42.3	-15.4	NO	0.991	NO	bb
7	171223M1_9	Standard	100.000	5.50	23865.021	9198.628	32.430	107.2	7.2	NO	0.991	NO	bb
8	171223M1_10	Standard	250.000	5.50	61662.207	12079.747	63.807	248.1	-0.8	NO	0.991	NO	bb

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.998265$
 Calibration curve: $-0.00628568 * x^2 + 2.53768 * x + -0.304606$
 Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	5.76	1408.742	14191.256	1.241	0.6	22.0	NO	0.998	NO	bd
2	2 171223M1_4	Standard	1.000	5.77	849.747	6636.054	1.601	0.8	-24.8	NO	0.998	NO	bd
3	3 171223M1_5	Standard	2.000	5.77	2045.583	5925.608	4.315	1.8	-8.6	NO	0.998	NO	bb
4	4 171223M1_6	Standard	5.000	5.76	4827.284	4396.446	13.725	5.6	12.1	NO	0.998	NO	bb
5	5 171223M1_7	Standard	10.000	5.74	11605.277	5915.494	24.523	10.0	0.3	NO	0.998	NO	bd
6	6 171223M1_8	Standard	50.000	5.74	51206.258	5850.524	109.405	49.2	-1.5	NO	0.998	NO	bb
7	7 171223M1_9	Standard	100.000	5.73	95071.055	6213.241	191.267	100.5	0.5	NO	0.998	NO	bb
8	8 171223M1_10	Standard	250.000	5.74	245470.469	8066.911	380.366			NO	0.998	NO	bbXI

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999830$, $r^2 = 0.999660$
 Calibration curve: $1.14654 * x + 0.235567$
 Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
 Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	2.500	5.84	804.750	36394.730	3.317	2.7	7.5	NO	1.000	NO	bb
2	2 171223M1_4	Standard	5.000	5.84	599.699	15451.596	5.822	4.9	-2.6	NO	1.000	NO	bb
3	3 171223M1_5	Standard	10.000	5.84	1168.146	16321.259	10.736	9.2	-8.4	NO	1.000	NO	bb
4	4 171223M1_6	Standard	25.000	5.83	3080.109	15603.787	29.609	25.6	2.5	NO	1.000	NO	bb
5	5 171223M1_7	Standard	50.000	5.80	6787.827	16502.787	61.697	53.6	7.2	NO	1.000	NO	bb
6	6 171223M1_8	Standard	250.000	5.79	31728.467	16099.470	295.617	257.6	3.1	NO	1.000	NO	bb
7	7 171223M1_9	Standard	500.000	5.79	62033.461	16267.501	572.001	498.7	-0.3	NO	1.000	NO	bb
8	8 171223M1_10	Standard	1250.000	5.79	160003.156	16875.320	1422.223	1240.2	-0.8	NO	1.000	NO	bb

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Compound name: PFTrDA

Coefficient of Determination: $R^2 = 0.995712$
 Calibration curve: $-0.00450981 * x^2 + 2.72534 * x + -0.43903$
 Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	6.01	1305.877	14191.256	1.150	0.6	16.7	NO	0.996	NO	bb
2	2 171223M1_4	Standard	1.000	6.01	1308.684	6636.054	2.465	1.1	6.7	NO	0.996	NO	bb
3	3 171223M1_5	Standard	2.000	6.01	1748.608	5925.608	3.689	1.5	-24.1	NO	0.996	NO	bb
4	4 171223M1_6	Standard	5.000	6.01	5479.906	4396.446	15.580	5.9	18.7	NO	0.996	NO	bb
5	5 171223M1_7	Standard	10.000	5.99	10125.318	5915.494	21.396	8.1	-18.8	NO	0.996	NO	bb
6	6 171223M1_8	Standard	50.000	5.98	56185.363	5850.524	120.043	48.0	-4.0	NO	0.996	NO	bb
7	7 171223M1_9	Standard	100.000	5.98	118468.906	6213.241	238.340	106.3	6.3	NO	0.996	NO	bb
8	8 171223M1_10	Standard	250.000	5.98	255272.078	8066.911	395.554	243.1	-2.8	NO	0.996	NO	bb

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.996182$
 Calibration curve: $-0.000734763 * x^2 + 1.59588 * x + 0.17553$
 Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	6.22	917.095	14943.047	0.767	0.4	-25.8	NO	0.996	NO	bb
2	2 171223M1_4	Standard	1.000	6.22	1140.127	7268.592	1.961	1.1	11.9	NO	0.996	NO	bb
3	3 171223M1_5	Standard	2.000	6.22	1475.448	5748.335	3.208	1.9	-4.9	NO	0.996	NO	bb
4	4 171223M1_6	Standard	5.000	6.22	4832.885	6809.618	8.871	5.5	9.3	NO	0.996	NO	bb
5	5 171223M1_7	Standard	10.000	6.20	8769.701	5953.291	18.414	11.5	14.9	NO	0.996	NO	bb
6	6 171223M1_8	Standard	50.000	6.19	40185.074	6896.045	72.841	46.5	-6.9	NO	0.996	NO	bb
7	7 171223M1_9	Standard	100.000	6.19	69586.188	5619.342	154.792	101.6	1.6	NO	0.996	NO	db
8	8 171223M1_10	Standard	250.000	6.19	220191.625	6846.076	402.040	290.7	16.3	NO	0.996	NO	dbX

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.999970$

Calibration curve: $8.81956e-006 * x^2 + 0.950508 * x + 0.113159$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	2.500	6.21	905.395	57705.047	2.354	2.4	-5.7	NO	1.000	NO	bb
2	2 171223M1_4	Standard	5.000	6.21	848.075	25150.836	5.058	5.2	4.0	NO	1.000	NO	bb
3	3 171223M1_5	Standard	10.000	6.21	1633.323	25447.867	9.627	10.0	0.1	NO	1.000	NO	bb
4	4 171223M1_6	Standard	25.000	6.21	3891.015	24479.740	23.842	25.0	-0.2	NO	1.000	NO	bb
5	5 171223M1_7	Standard	50.000	6.18	8879.992	27453.338	48.519	50.9	1.8	NO	1.000	NO	bb
6	6 171223M1_8	Standard	250.000	6.18	41785.070	26168.393	239.516	251.3	0.5	NO	1.000	NO	bb
7	7 171223M1_9	Standard	500.000	6.18	76789.164	24273.590	474.523	496.8	-0.6	NO	1.000	NO	bb
8	8 171223M1_10	Standard	1250.000	6.18	187875.375	23426.467	1202.969	1251.0	0.1	NO	1.000	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.995600$

Calibration curve: $-0.00231275 * x^2 + 0.750107 * x + -0.00105247$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	6.53	594.110	8299.851	0.358	0.5	-4.2	NO	0.996	NO	MM
2	2 171223M1_4	Standard	1.000	6.53	569.094	3518.905	0.809	1.1	8.3	NO	0.996	NO	db
3	3 171223M1_5	Standard	2.000	6.53	1047.552	2988.276	1.753	2.4	17.8	NO	0.996	NO	db
4	4 171223M1_6	Standard	5.000	6.53	1915.231	3122.260	3.067	4.1	-17.1	NO	0.996	NO	bb
5	5 171223M1_7	Standard	10.000	6.51	4486.362	3385.608	6.626	9.1	-9.1	NO	0.996	NO	bb
6	6 171223M1_8	Standard	50.000	6.51	20059.938	2997.604	33.460	53.4	6.8	NO	0.996	NO	bb
7	7 171223M1_9	Standard	100.000	6.51	33035.906	3232.275	51.103	97.3	-2.7	NO	0.996	NO	bb
8	8 171223M1_10	Standard	250.000	6.50	98232.742	3902.680	125.853			NO	0.996	NO	bbXI

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.999426$

Calibration curve: $-0.000328739 * x^2 + 0.775583 * x + 0.0149239$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	0.500	6.75	717.340	8299.851	0.432	0.5	7.6	NO	0.999	NO	bb
2	2 171223M1_4	Standard	1.000	6.75	491.115	3518.905	0.698	0.9	-11.9	NO	0.999	NO	bb
3	3 171223M1_5	Standard	2.000	6.75	1133.253	2988.276	1.896	2.4	21.4	NO	0.999	NO	bb
4	4 171223M1_6	Standard	5.000	6.75	2126.503	3122.260	3.405	4.4	-12.4	NO	0.999	NO	bb
5	5 171223M1_7	Standard	10.000	6.73	5131.232	3385.608	7.578	9.8	-2.1	NO	0.999	NO	bb
6	6 171223M1_8	Standard	50.000	6.73	23085.486	2997.604	38.507	50.7	1.4	NO	0.999	NO	bb
7	7 171223M1_9	Standard	100.000	6.73	47946.430	3232.275	74.168	99.8	-0.2	NO	0.999	NO	bb
8	8 171223M1_10	Standard	250.000	6.72	135281.141	3902.680	173.318	249.9	-0.0	NO	0.999	NO	bb

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.999593$, $r^2 = 0.999185$

Calibration curve: $1.0422 * x + -0.306552$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	2.500	6.34	976.680	53012.395	2.764	2.9	17.8	NO	0.999	NO	bb
2	2 171223M1_4	Standard	5.000	6.34	739.117	24790.992	4.472	4.6	-8.3	NO	0.999	NO	bb
3	3 171223M1_5	Standard	10.000	6.34	1385.363	22636.541	9.180	9.1	-9.0	NO	0.999	NO	bb
4	4 171223M1_6	Standard	25.000	6.33	3648.799	20380.311	26.855	26.1	4.2	NO	0.999	NO	bb
5	5 171223M1_7	Standard	50.000	6.31	7988.569	25599.375	46.809	45.2	-9.6	NO	0.999	NO	bb
6	6 171223M1_8	Standard	250.000	6.31	42311.734	23580.313	269.155	258.5	3.4	NO	0.999	NO	bb
7	7 171223M1_9	Standard	500.000	6.31	81989.672	22972.889	535.346	514.0	2.8	NO	0.999	NO	bb
8	8 171223M1_10	Standard	1250.000	6.31	219996.125	25704.908	1283.779	1232.1	-1.4	NO	0.999	NO	bd

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.999312$, $r^2 = 0.998625$

Calibration curve: $1.13816 * x + 0.320191$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	2.500	6.48	1232.020	56132.879	3.292	2.6	4.5	NO	0.999	NO	bb
2	2 171223M1_4	Standard	5.000	6.48	1035.684	21524.912	7.217	6.1	21.2	NO	0.999	NO	bb
3	3 171223M1_5	Standard	10.000	6.48	1807.129	24069.666	11.262	9.6	-3.9	NO	0.999	NO	bb
4	4 171223M1_6	Standard	25.000	6.48	4372.563	25678.174	25.542	22.2	-11.4	NO	0.999	NO	bb
5	5 171223M1_7	Standard	50.000	6.46	9350.293	26113.703	53.709	46.9	-6.2	NO	0.999	NO	bb
6	6 171223M1_8	Standard	250.000	6.46	48660.109	26288.988	277.645	243.7	-2.5	NO	0.999	NO	bb
7	7 171223M1_9	Standard	500.000	6.46	100809.938	27771.098	544.505	478.1	-4.4	NO	0.999	NO	bb
8	8 171223M1_10	Standard	1250.000	6.46	235231.281	24151.182	1460.992	1283.4	2.7	NO	0.999	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.879561

RRF SD: 0.0181349, Relative SD: 2.06182

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	1.52	17994.318	20700.430	10.866	12.4	-1.2	NO		NO	bb
2	2 171223M1_4	Standard	12.500	1.52	7812.783	8608.725	11.344	12.9	3.2	NO		NO	bb
3	3 171223M1_5	Standard	12.500	1.52	8334.820	9297.639	11.206	12.7	1.9	NO		NO	bb
4	4 171223M1_6	Standard	12.500	1.52	7322.210	8200.240	11.162	12.7	1.5	NO		NO	bb
5	5 171223M1_7	Standard	12.500	1.50	8198.792	9341.166	10.971	12.5	-0.2	NO		NO	bb
6	6 171223M1_8	Standard	12.500	1.50	8147.266	9314.574	10.933	12.4	-0.6	NO		NO	bb
7	7 171223M1_9	Standard	12.500	1.50	8057.050	9314.273	10.813	12.3	-1.7	NO		NO	bb
8	8 171223M1_10	Standard	12.500	1.50	8575.222	10054.229	10.661	12.1	-3.0	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.82572
 RRF SD: 0.0483703, Relative SD: 5.85795
 Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	2.49	23789.955	32411.273	9.175	11.1	-11.1	NO		NO	bb
2	2 171223M1_4	Standard	12.500	2.49	10682.894	12018.077	11.111	13.5	7.7	NO		NO	bb
3	3 171223M1_5	Standard	12.500	2.50	10941.800	13867.993	9.862	11.9	-4.4	NO		NO	bb
4	4 171223M1_6	Standard	12.500	2.50	9841.218	11617.561	10.589	12.8	2.6	NO		NO	bb
5	5 171223M1_7	Standard	12.500	2.47	10734.116	13113.093	10.232	12.4	-0.9	NO		NO	bb
6	6 171223M1_8	Standard	12.500	2.47	10760.758	13110.816	10.259	12.4	-0.6	NO		NO	bb
7	7 171223M1_9	Standard	12.500	2.47	10363.562	11913.254	10.874	13.2	5.4	NO		NO	bb
8	8 171223M1_10	Standard	12.500	2.46	10864.921	12972.948	10.469	12.7	1.4	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.105985
 RRF SD: 0.00759955, Relative SD: 7.17042
 Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	2.76	2998.479	32411.273	1.156	10.9	-12.7	NO		NO	bb
2	2 171223M1_4	Standard	12.500	2.76	1395.058	12018.077	1.451	13.7	9.5	NO		NO	bb
3	3 171223M1_5	Standard	12.500	2.76	1385.118	13867.993	1.248	11.8	-5.8	NO		NO	bb
4	4 171223M1_6	Standard	12.500	2.76	1333.521	11617.561	1.435	13.5	8.3	NO		NO	bb
5	5 171223M1_7	Standard	12.500	2.74	1406.038	13113.093	1.340	12.6	1.2	NO		NO	bb
6	6 171223M1_8	Standard	12.500	2.74	1408.391	13110.816	1.343	12.7	1.4	NO		NO	bb
7	7 171223M1_9	Standard	12.500	2.73	1244.414	11913.254	1.306	12.3	-1.4	NO		NO	bb
8	8 171223M1_10	Standard	12.500	2.73	1368.872	12972.948	1.319	12.4	-0.4	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.743254

RRF SD: 0.0377202, Relative SD: 5.07501

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	5.000	3.25	8694.609	32411.273	3.353	4.5	-9.8	NO		NO	bb
2	2 171223M1_4	Standard	5.000	3.26	3570.562	12018.077	3.714	5.0	-0.1	NO		NO	bb
3	3 171223M1_5	Standard	5.000	3.26	3942.462	13867.993	3.554	4.8	-4.4	NO		NO	bb
4	4 171223M1_6	Standard	5.000	3.26	3590.858	11617.561	3.864	5.2	4.0	NO		NO	bb
5	5 171223M1_7	Standard	5.000	3.23	3947.164	13113.093	3.763	5.1	1.2	NO		NO	bb
6	6 171223M1_8	Standard	5.000	3.23	3945.012	13110.816	3.761	5.1	1.2	NO		NO	bb
7	7 171223M1_9	Standard	5.000	3.22	3781.823	11913.254	3.968	5.3	6.8	NO		NO	bb
8	8 171223M1_10	Standard	5.000	3.22	3896.129	12972.948	3.754	5.1	1.0	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.556627

RRF SD: 0.0419849, Relative SD: 7.54272

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	3.87	16901.430	32411.273	6.518	11.7	-6.3	NO		NO	bb
2	2 171223M1_4	Standard	12.500	3.87	7616.221	12018.077	7.922	14.2	13.9	NO		NO	bb
3	3 171223M1_5	Standard	12.500	3.87	7863.394	13867.993	7.088	12.7	1.9	NO		NO	bb
4	4 171223M1_6	Standard	12.500	3.87	6048.709	11617.561	6.508	11.7	-6.5	NO		NO	bb
5	5 171223M1_7	Standard	12.500	3.85	7136.541	13113.093	6.803	12.2	-2.2	NO		NO	bb
6	6 171223M1_8	Standard	12.500	3.84	7150.720	13110.816	6.818	12.2	-2.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	3.84	7169.270	11913.254	7.522	13.5	8.1	NO		NO	bb
8	8 171223M1_10	Standard	12.500	3.84	6729.385	12972.948	6.484	11.6	-6.8	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.432597
 RRF SD: 0.0377202, Relative SD: 8.71947
 Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.02	2745.585	6163.749	5.568	12.9	3.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.01	1242.145	2731.157	5.685	13.1	5.1	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.02	1094.748	2843.742	4.812	11.1	-11.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.01	1179.045	2563.640	5.749	13.3	6.3	NO		NO	bb
5	5 171223M1_7	Standard	12.500	3.99	1207.269	2543.486	5.933	13.7	9.7	NO		NO	bb
6	6 171223M1_8	Standard	12.500	3.99	1183.342	2789.959	5.302	12.3	-2.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	3.98	1108.397	2469.040	5.611	13.0	3.8	NO		NO	bb
8	8 171223M1_10	Standard	12.500	3.98	1035.276	2813.706	4.599	10.6	-14.9	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.274591
 RRF SD: 0.0476965, Relative SD: 17.37
 Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.33	5437.702	20890.900	3.254	11.8	-5.2	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.33	2406.816	9991.110	3.011	11.0	-12.3	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.33	2362.012	11285.347	2.616	9.5	-23.8	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.33	2383.614	7987.584	3.730	13.6	8.7	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.30	2951.821	11467.875	3.217	11.7	-6.3	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.30	2917.458	9706.333	3.757	13.7	9.5	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.30	3517.560	9901.174	4.441	16.2	29.4	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.30	4911.835	9911.295	6.195	22.6	80.5	NO		NO	bbX

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Compound name: 13C2-PFOA

Response Factor: 1.1415

RRF SD: 0.145756, Relative SD: 12.7688

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.38	29070.084	20890.900	17.394	15.2	21.9	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.38	11628.936	9991.110	14.549	12.7	2.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.38	11299.322	11285.347	12.515	11.0	-12.3	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.38	10632.304	7987.584	16.639	14.6	16.6	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.36	11618.473	11467.875	12.664	11.1	-11.2	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.35	10319.918	9706.333	13.290	11.6	-6.9	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.35	10529.178	9901.174	13.293	11.6	-6.8	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.35	10946.136	9911.295	13.805	12.1	-3.2	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.96252

RRF SD: 0.0996273, Relative SD: 10.3507

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.81	21497.289	21767.432	12.345	12.8	2.6	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.81	8353.565	10056.452	10.383	10.8	-13.7	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.81	7206.182	8511.316	10.583	11.0	-12.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.81	9205.159	8822.080	13.043	13.6	8.4	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.78	9453.199	10966.982	10.775	11.2	-10.4	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.78	10707.614	10596.000	12.632	13.1	5.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.78	8872.727	8454.560	13.118	13.6	9.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.78	9773.636	9135.427	13.373	13.9	11.2	NO		NO	bb

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Compound name: 13C8-PFOSA

Response Factor: 0.373424

RRF SD: 0.0440022, Relative SD: 11.7834

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.87	6800.062	24640.541	3.450	9.2	-26.1	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.87	3342.281	8453.983	4.942	13.2	5.9	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.87	3709.799	9797.519	4.733	12.7	1.4	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.87	3151.682	7830.849	5.031	13.5	7.8	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.84	3944.223	9848.424	5.006	13.4	7.2	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.84	3659.101	8961.140	5.104	13.7	9.3	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.84	3730.979	10762.859	4.333	11.6	-7.2	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.83	3136.953	8266.538	4.743	12.7	1.6	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 1.07525

RRF SD: 0.11037, Relative SD: 10.2646

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.88	6933.729	6858.785	12.637	11.8	-6.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.89	3075.166	2928.854	13.124	12.2	-2.4	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.89	2979.508	2581.514	14.427	13.4	7.3	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.88	2373.349	2231.384	13.295	12.4	-1.1	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.86	3488.088	3099.291	14.068	13.1	4.7	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.86	3026.746	2357.406	16.049	14.9	19.4	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.86	2861.426	3010.748	11.880	11.0	-11.6	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.86	2625.461	2724.768	12.044	11.2	-10.4	NO		NO	bb

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Compound name: 13C2-PFDA

Response Factor: 1.21348

RRF SD: 0.137214, Relative SD: 11.3074

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	5.18	21981.609	19435.410	14.138	11.7	-6.8	NO		NO	MM
2	2 171223M1_4	Standard	12.500	5.18	8008.281	7462.450	13.414	11.1	-11.6	NO		NO	bb
3	3 171223M1_5	Standard	12.500	5.18	8184.718	7366.780	13.888	11.4	-8.4	NO		NO	bb
4	4 171223M1_6	Standard	12.500	5.18	9334.163	6794.054	17.173	14.2	13.2	NO		NO	bb
5	5 171223M1_7	Standard	12.500	5.15	8449.764	7316.019	14.437	11.9	-4.8	NO		NO	bb
6	6 171223M1_8	Standard	12.500	5.15	10505.740	7810.179	16.814	13.9	10.8	NO		NO	bb
7	7 171223M1_9	Standard	12.500	5.15	10775.385	7653.704	17.598	14.5	16.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	5.15	10215.163	9195.845	13.886	11.4	-8.5	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.109327

RRF SD: 0.0126384, Relative SD: 11.5602

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	5.15	3165.819	32411.273	1.221	11.2	-10.7	NO		NO	bb
2	2 171223M1_4	Standard	12.500	5.15	1357.299	12018.077	1.412	12.9	3.3	NO		NO	bb
3	3 171223M1_5	Standard	12.500	5.15	1429.227	13867.993	1.288	11.8	-5.7	NO		NO	bb
4	4 171223M1_6	Standard	12.500	5.15	1105.108	11617.561	1.189	10.9	-13.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	5.13	1605.892	13113.093	1.531	14.0	12.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	5.12	1634.889	13110.816	1.559	14.3	14.1	NO		NO	bb
7	7 171223M1_9	Standard	12.500	5.11	2004.146	11913.254	2.103	19.2	53.9	NO		NO	bbX
8	8 171223M1_10	Standard	12.500	5.12	2644.382	12972.948	2.548	23.3	86.4	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.405399

RRF SD: 0.0610744, Relative SD: 15.0652

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	5.32	7901.586	24640.541	4.008	9.9	-20.9	NO		NO	bb
2	2 171223M1_4	Standard	12.500	5.32	3731.108	8453.983	5.517	13.6	8.9	NO		NO	bb
3	3 171223M1_5	Standard	12.500	5.32	3679.171	9797.519	4.694	11.6	-7.4	NO		NO	bb
4	4 171223M1_6	Standard	12.500	5.32	3278.825	7830.849	5.234	12.9	3.3	NO		NO	bb
5	5 171223M1_7	Standard	12.500	5.30	3970.306	9848.424	5.039	12.4	-0.6	NO		NO	bb
6	6 171223M1_8	Standard	12.500	5.29	3361.045	8961.140	4.688	11.6	-7.5	NO		NO	bb
7	7 171223M1_9	Standard	12.500	5.29	4097.629	10762.859	4.759	11.7	-6.1	NO		NO	bb
8	8 171223M1_10	Standard	12.500	5.29	4364.913	8266.538	6.600	16.3	30.2	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.490148

RRF SD: 0.0486183, Relative SD: 9.91912

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	5.47	13758.916	24640.541	6.980	14.2	13.9	NO		NO	bb
2	2 171223M1_4	Standard	12.500	5.48	4454.182	8453.983	6.586	13.4	7.5	NO		NO	bb
3	3 171223M1_5	Standard	12.500	5.47	4030.460	9797.519	5.142	10.5	-16.1	NO		NO	bb
4	4 171223M1_6	Standard	12.500	5.47	3835.197	7830.849	6.122	12.5	-0.1	NO		NO	bb
5	5 171223M1_7	Standard	12.500	5.44	5003.810	9848.424	6.351	13.0	3.7	NO		NO	bb
6	6 171223M1_8	Standard	12.500	5.44	4054.409	8961.140	5.656	11.5	-7.7	NO		NO	bb
7	7 171223M1_9	Standard	12.500	5.44	4856.795	10762.859	5.641	11.5	-7.9	NO		NO	bd
8	8 171223M1_10	Standard	12.500	5.44	4323.479	8266.538	6.538	13.3	6.7	NO		NO	bb

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Compound name: 13C2-PFUdA

Response Factor: 1.15442
 RRF SD: 0.219313, Relative SD: 18.9976
 Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	12.500	5.49	25040.082	24640.541	12.703	11.0	-12.0	NO		NO	bb
2	171223M1_4	Standard	12.500	5.49	10648.675	8453.983	15.745	13.6	9.1	NO		NO	bb
3	171223M1_5	Standard	12.500	5.49	11404.919	9797.519	14.551	12.6	0.8	NO		NO	bb
4	171223M1_6	Standard	12.500	5.49	10729.511	7830.849	17.127	14.8	18.7	NO		NO	bb
5	171223M1_7	Standard	12.500	5.46	8739.428	9848.424	11.092	9.6	-23.1	NO		NO	MM
6	171223M1_8	Standard	12.500	5.46	10950.285	8961.140	15.275	13.2	5.9	NO		NO	bb
7	171223M1_9	Standard	12.500	5.46	9198.628	10762.859	10.683	9.3	-26.0	NO		NO	bb
8	171223M1_10	Standard	12.500	5.46	12079.747	8266.538	18.266	15.8	26.6	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.622563
 RRF SD: 0.0775133, Relative SD: 12.4507
 Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	12.500	5.77	14191.256	24640.541	7.199	11.6	-7.5	NO		NO	bb
2	171223M1_4	Standard	12.500	5.77	6636.054	8453.983	9.812	15.8	26.1	NO		NO	bb
3	171223M1_5	Standard	12.500	5.77	5925.608	9797.519	7.560	12.1	-2.9	NO		NO	bb
4	171223M1_6	Standard	12.500	5.77	4396.446	7830.849	7.018	11.3	-9.8	NO		NO	bb
5	171223M1_7	Standard	12.500	5.75	5915.494	9848.424	7.508	12.1	-3.5	NO		NO	bb
6	171223M1_8	Standard	12.500	5.74	5850.524	8961.140	8.161	13.1	4.9	NO		NO	bb
7	171223M1_9	Standard	12.500	5.73	6213.241	10762.859	7.216	11.6	-7.3	NO		NO	bb
8	171223M1_10	Standard	12.500	5.73	8066.911	8266.538	12.198	19.6	56.7	NO		NO	bbX

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Compound name: d3-N-MeFOSA

Response Factor: 0.145712

RRF SD: 0.017136, Relative SD: 11.7602

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	150.000	5.86	36394.730	24640.541	18.463	126.7	-15.5	NO		NO	bb
2	2 171223M1_4	Standard	150.000	5.86	15451.596	8453.983	22.847	156.8	4.5	NO		NO	bb
3	3 171223M1_5	Standard	150.000	5.86	16321.259	9797.519	20.823	142.9	-4.7	NO		NO	bb
4	4 171223M1_6	Standard	150.000	5.85	15603.787	7830.849	24.908	170.9	14.0	NO		NO	bb
5	5 171223M1_7	Standard	150.000	5.82	16502.787	9848.424	20.946	143.7	-4.2	NO		NO	bb
6	6 171223M1_8	Standard	150.000	5.81	16099.470	8961.140	22.457	154.1	2.7	NO		NO	bb
7	7 171223M1_9	Standard	150.000	5.81	16267.501	10762.859	18.893	129.7	-13.6	NO		NO	bb
8	8 171223M1_10	Standard	150.000	5.81	16875.320	8266.538	25.518	175.1	16.7	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.705855

RRF SD: 0.140222, Relative SD: 19.8656

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	6.22	14943.047	24640.541	7.581	10.7	-14.1	NO		NO	bb
2	2 171223M1_4	Standard	12.500	6.22	7268.592	8453.983	10.747	15.2	21.8	NO		NO	bb
3	3 171223M1_5	Standard	12.500	6.22	5748.335	9797.519	7.334	10.4	-16.9	NO		NO	bb
4	4 171223M1_6	Standard	12.500	6.22	6809.618	7830.849	10.870	15.4	23.2	NO		NO	bb
5	5 171223M1_7	Standard	12.500	6.20	5953.291	9848.424	7.556	10.7	-14.4	NO		NO	bb
6	6 171223M1_8	Standard	12.500	6.19	6896.045	8961.140	9.619	13.6	9.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	6.19	5619.342	10762.859	6.526	9.2	-26.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	6.19	6846.076	8266.538	10.352	14.7	17.3	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.227472

RRF SD: 0.0256029, Relative SD: 11.2554

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	150.000	6.23	57705.047	24640.541	29.273	128.7	-14.2	NO		NO	bb
2	171223M1_4	Standard	150.000	6.23	25150.836	8453.983	37.188	163.5	9.0	NO		NO	bb
3	171223M1_5	Standard	150.000	6.23	25447.867	9797.519	32.467	142.7	-4.8	NO		NO	bb
4	171223M1_6	Standard	150.000	6.22	24479.740	7830.849	39.076	171.8	14.5	NO		NO	bb
5	171223M1_7	Standard	150.000	6.19	27453.338	9848.424	34.845	153.2	2.1	NO		NO	bb
6	171223M1_8	Standard	150.000	6.19	26168.393	8961.140	36.503	160.5	7.0	NO		NO	bb
7	171223M1_9	Standard	150.000	6.19	24273.590	10762.859	28.191	123.9	-17.4	NO		NO	bb
8	171223M1_10	Standard	150.000	6.19	23426.467	8266.538	35.424	155.7	3.8	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.908594

RRF SD: 0.149914, Relative SD: 16.4996

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171223M1_3	Standard	5.000	6.53	8299.851	24640.541	4.210	4.6	-7.3	NO		NO	bb
2	171223M1_4	Standard	5.000	6.53	3518.905	8453.983	5.203	5.7	14.5	NO		NO	bb
3	171223M1_5	Standard	5.000	6.53	2988.276	9797.519	3.813	4.2	-16.1	NO		NO	bb
4	171223M1_6	Standard	5.000	6.53	3122.260	7830.849	4.984	5.5	9.7	NO		NO	bb
5	171223M1_7	Standard	5.000	6.51	3385.608	9848.424	4.297	4.7	-5.4	NO		NO	bb
6	171223M1_8	Standard	5.000	6.51	2997.604	8961.140	4.181	4.6	-8.0	NO		NO	bb
7	171223M1_9	Standard	5.000	6.51	3232.275	10762.859	3.754	4.1	-17.4	NO		NO	bb
8	171223M1_10	Standard	5.000	6.50	3902.680	8266.538	5.901	6.5	29.9	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.213246

RRF SD: 0.0291996, Relative SD: 13.6929

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	150.000	6.33	53012.395	24640.541	26.893	126.1	-15.9	NO		NO	bd
2	2 171223M1_4	Standard	150.000	6.33	24790.992	8453.983	36.656	171.9	14.6	NO		NO	bb
3	3 171223M1_5	Standard	150.000	6.33	22636.541	9797.519	28.880	135.4	-9.7	NO		NO	bb
4	4 171223M1_6	Standard	150.000	6.32	20380.311	7830.849	32.532	152.6	1.7	NO		NO	bb
5	5 171223M1_7	Standard	150.000	6.31	25599.375	9848.424	32.492	152.4	1.6	NO		NO	bb
6	6 171223M1_8	Standard	150.000	6.30	23580.313	8961.140	32.892	154.2	2.8	NO		NO	bb
7	7 171223M1_9	Standard	150.000	6.30	22972.889	10762.859	26.681	125.1	-16.6	NO		NO	bb
8	8 171223M1_10	Standard	150.000	6.30	25704.908	8266.538	38.869	182.3	21.5	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.22549

RRF SD: 0.0266582, Relative SD: 11.8223

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	150.000	6.47	56132.879	24640.541	28.476	126.3	-15.8	NO		NO	bb
2	2 171223M1_4	Standard	150.000	6.47	21524.912	8453.983	31.827	141.1	-5.9	NO		NO	bb
3	3 171223M1_5	Standard	150.000	6.47	24069.666	9797.519	30.709	136.2	-9.2	NO		NO	bb
4	4 171223M1_6	Standard	150.000	6.47	25678.174	7830.849	40.989	181.8	21.2	NO		NO	bb
5	5 171223M1_7	Standard	150.000	6.45	26113.703	9848.424	33.145	147.0	-2.0	NO		NO	bb
6	6 171223M1_8	Standard	150.000	6.45	26288.988	8961.140	36.671	162.6	8.4	NO		NO	bb
7	7 171223M1_9	Standard	150.000	6.45	27771.098	10762.859	32.253	143.0	-4.6	NO		NO	bb
8	8 171223M1_10	Standard	150.000	6.45	24151.182	8266.538	36.519	162.0	8.0	NO		NO	bb

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 8.3925e-017, Relative SD: 8.3925e-015

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	1.52	20700.430	20700.430	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	1.52	8608.725	8608.725	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	1.52	9297.639	9297.639	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	1.52	8200.240	8200.240	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	1.50	9341.166	9341.166	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	1.49	9314.574	9314.574	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	1.50	9314.273	9314.273	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	1.49	10054.229	10054.229	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	3.26	32411.273	32411.273	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	3.26	12018.077	12018.077	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	3.26	13867.993	13867.993	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	3.26	11617.561	11617.561	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	3.23	13113.093	13113.093	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	3.23	13110.816	13110.816	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	3.22	11913.254	11913.254	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	3.22	12972.948	12972.948	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.02	6163.749	6163.749	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.02	2731.157	2731.157	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.02	2843.742	2843.742	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.01	2563.640	2563.640	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	3.99	2543.486	2543.486	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	3.99	2789.959	2789.959	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	3.98	2469.040	2469.040	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	3.98	2813.706	2813.706	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.38	20890.900	20890.900	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.38	9991.110	9991.110	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.38	11285.347	11285.347	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.38	7987.584	7987.584	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.36	11467.875	11467.875	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.35	9706.333	9706.333	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.35	9901.174	9901.174	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.35	9911.295	9911.295	12.500	12.5	0.0	NO		NO	bb

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.81	21767.432	21767.432	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.81	10056.452	10056.452	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.81	8511.316	8511.316	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.81	8822.080	8822.080	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.79	10966.982	10966.982	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.78	10596.000	10596.000	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.78	8454.560	8454.560	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.78	9135.427	9135.427	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	4.89	6858.785	6858.785	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	4.88	2928.854	2928.854	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	4.89	2581.514	2581.514	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	4.88	2231.384	2231.384	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	4.86	3099.291	3099.291	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	4.86	2357.406	2357.406	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	4.86	3010.748	3010.748	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	4.86	2724.768	2724.768	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 1.18688e-016, Relative SD: 1.18688e-014

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	5.18	19435.410	19435.410	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	5.18	7462.450	7462.450	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	5.18	7366.780	7366.780	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	5.18	6794.054	6794.054	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	5.15	7316.019	7316.019	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	5.15	7810.179	7810.179	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	5.15	7653.704	7653.704	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	5.15	9195.845	9195.845	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUdA

Response Factor: 1

RRF SD: 8.3925e-017, Relative SD: 8.3925e-015

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171223M1_3	Standard	12.500	5.49	24640.541	24640.541	12.500	12.5	0.0	NO		NO	bb
2	2 171223M1_4	Standard	12.500	5.49	8453.983	8453.983	12.500	12.5	0.0	NO		NO	bb
3	3 171223M1_5	Standard	12.500	5.49	9797.519	9797.519	12.500	12.5	0.0	NO		NO	bb
4	4 171223M1_6	Standard	12.500	5.49	7830.849	7830.849	12.500	12.5	0.0	NO		NO	bb
5	5 171223M1_7	Standard	12.500	5.46	9848.424	9848.424	12.500	12.5	0.0	NO		NO	bb
6	6 171223M1_8	Standard	12.500	5.46	8961.140	8961.140	12.500	12.5	0.0	NO		NO	bb
7	7 171223M1_9	Standard	12.500	5.46	10762.859	10762.859	12.500	12.5	0.0	NO		NO	bb
8	8 171223M1_10	Standard	12.500	5.46	8266.538	8266.538	12.500	12.5	0.0	NO		NO	bb

Dataset: Untitled

Last Altered: Tuesday, December 26, 2017 12:11:41 Pacific Standard Time

Printed: Tuesday, December 26, 2017 12:13:33 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317.mdb 26 Dec 2017 12:02:01

Calibration: U:\Q4.PRO\CurveDB\IC18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171223M1_1	IPA	23-Dec-17	12:56:57
2	171223M1_2	ST171223M1-1 PFC CS-2 17L1202	23-Dec-17	13:08:15
3	171223M1_3	ST171223M1-2 PFC CS-1 17L1203	23-Dec-17	13:19:26
4	171223M1_4	ST171223M1-3 PFC CS0 17L1204	23-Dec-17	13:30:37
5	171223M1_5	ST171223M1-4 PFC CS1 17L1205	23-Dec-17	13:41:47
6	171223M1_6	ST171223M1-5 PFC CS2 17L1802	23-Dec-17	13:52:58
7	171223M1_7	ST171223M1-6 PFC CS3 17L1207	23-Dec-17	14:04:09
8	171223M1_8	ST171223M1-7 PFC CS4 17L1208	23-Dec-17	14:15:20
9	171223M1_9	ST171223M1-8 PFC CS5 17L1209	23-Dec-17	14:26:30
10	171223M1_10	ST171223M1-9 PFC CS6 17L1803	23-Dec-17	14:37:41
11	171223M1_11	ST171223M1-10 PFC CS7 17L1804	23-Dec-17	14:48:52
12	171223M1_12	IPA	23-Dec-17	15:00:03
13	171223M1_13	ICV171223M1-1 PFC ICV 17L1201	23-Dec-17	15:11:13
14	171223M1_14	IPA	23-Dec-17	15:22:24

Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317.mdb 26 Dec 2017 10:53:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:50:00

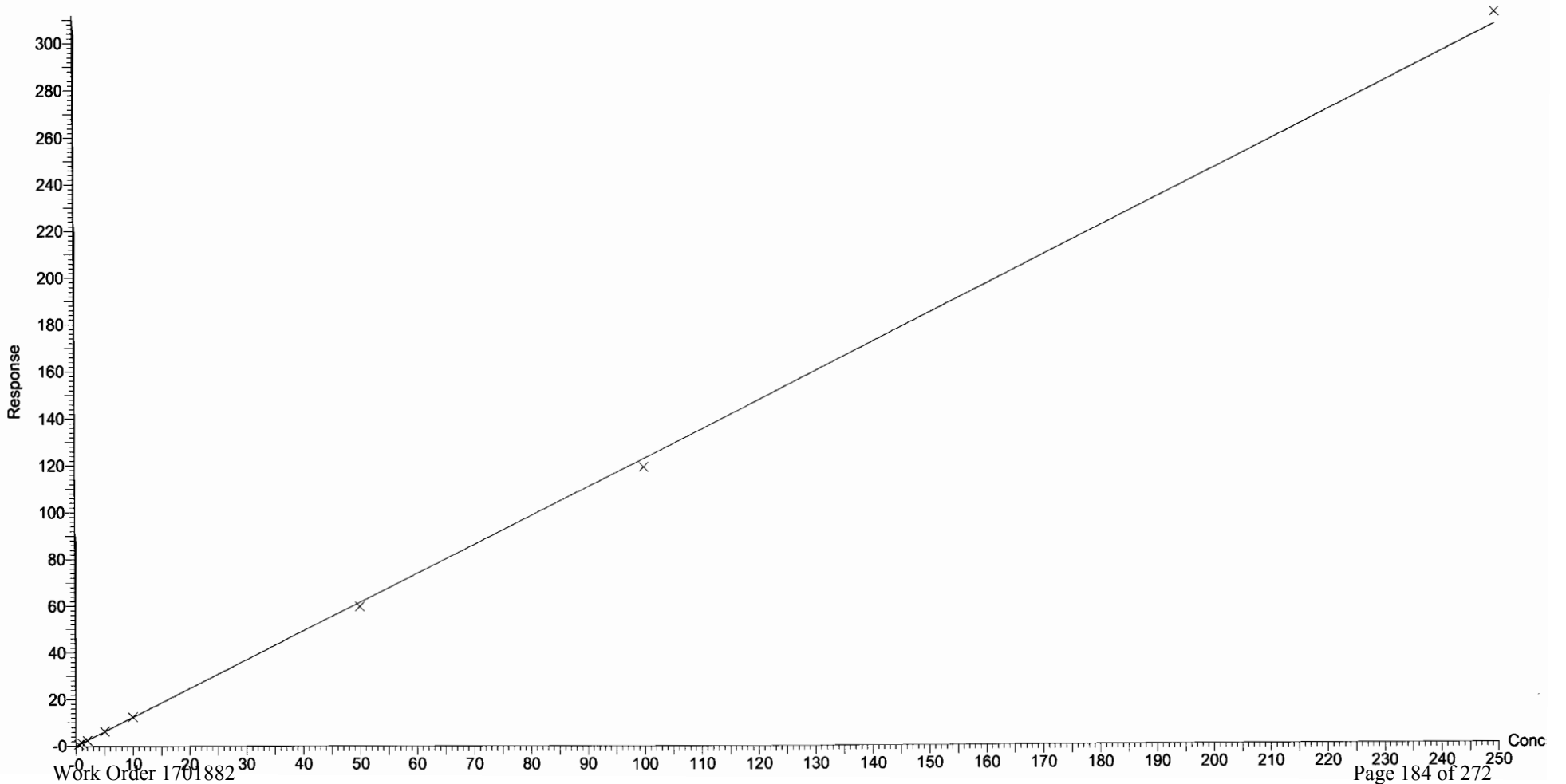
Compound name: PFBA

Correlation coefficient: $r = 0.999741$, $r^2 = 0.999481$

Calibration curve: $1.22681 * x + -0.0376677$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

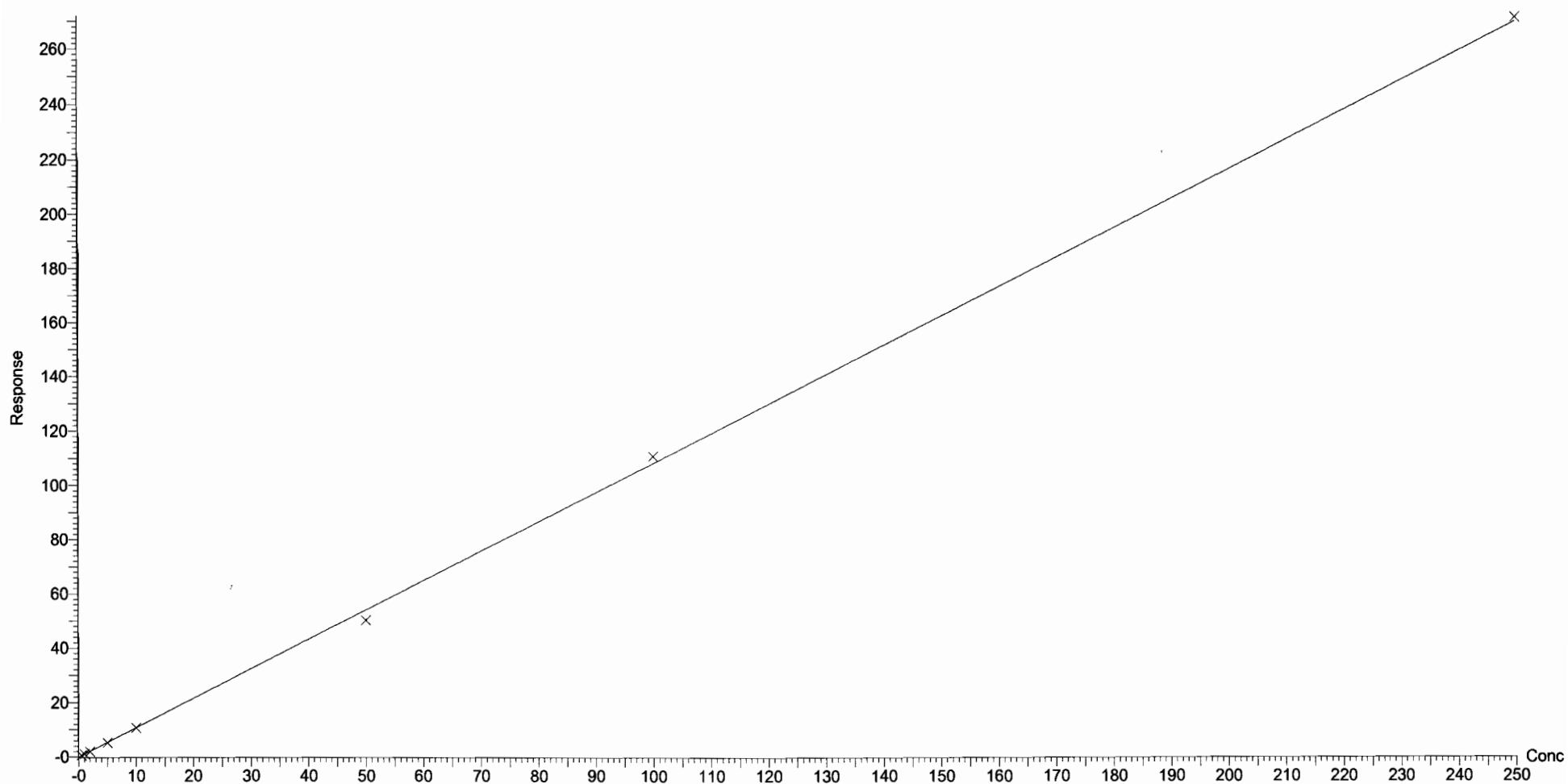
Compound name: PFPeA

Correlation coefficient: $r = 0.999585$, $r^2 = 0.999171$

Calibration curve: $1.08211 * x + -0.0757797$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

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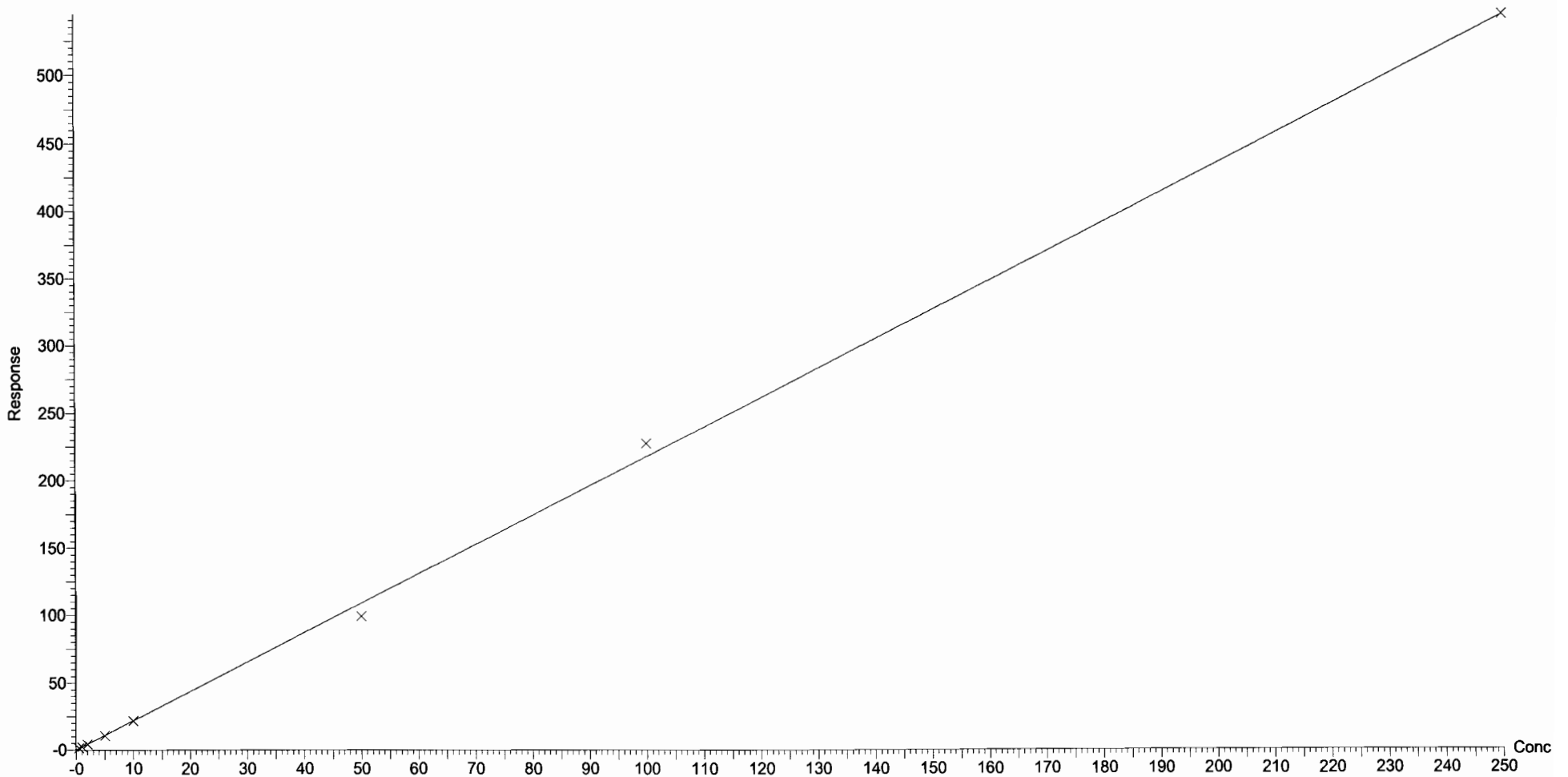
Compound name: PFBS

Correlation coefficient: $r = 0.999231$, $r^2 = 0.998463$

Calibration curve: $2.17657 * x + -0.0833936$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

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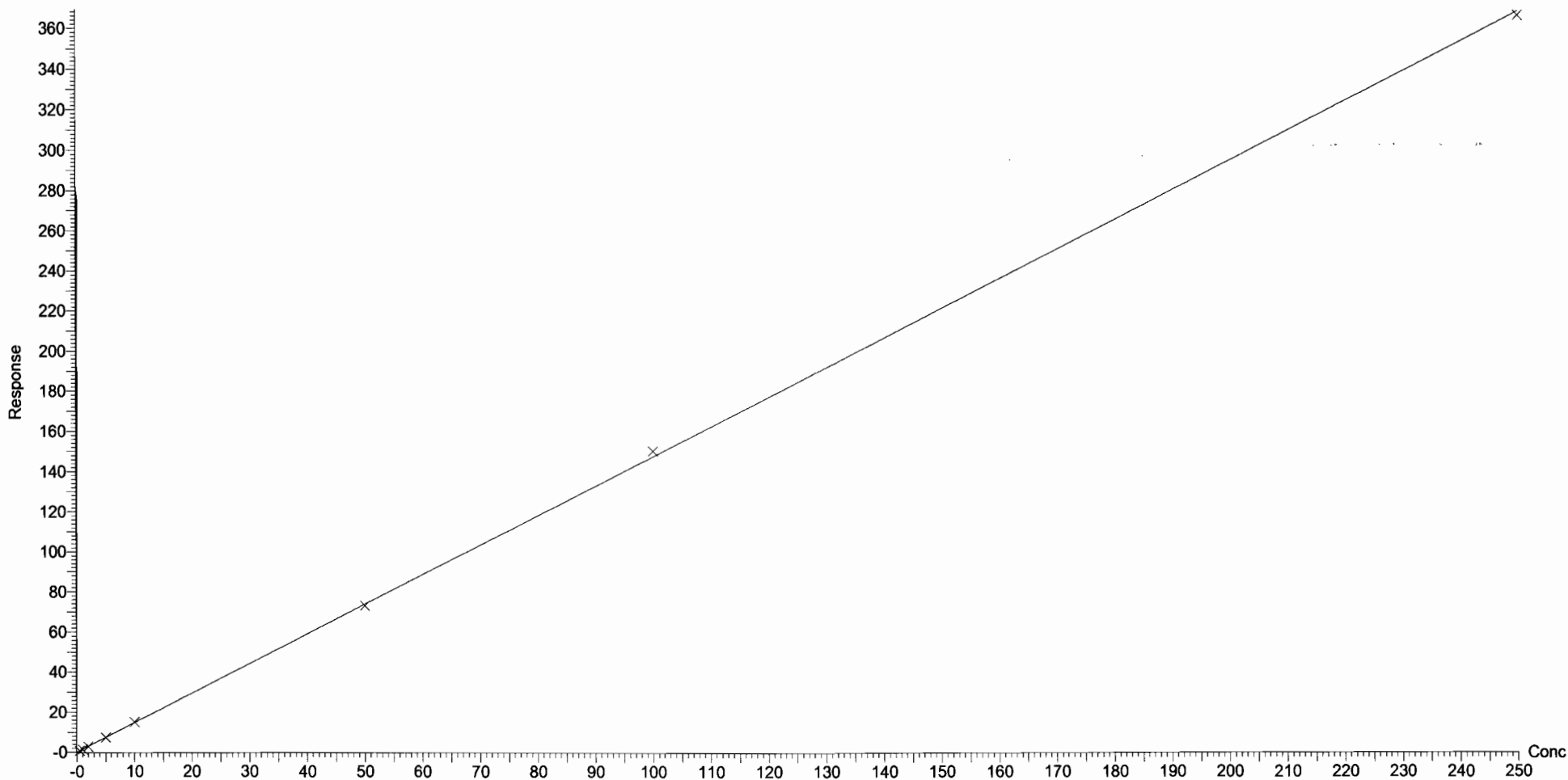
Compound name: PFHxA

Correlation coefficient: $r = 0.999920$, $r^2 = 0.999840$

Calibration curve: $1.47592 * x + 0.00298164$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

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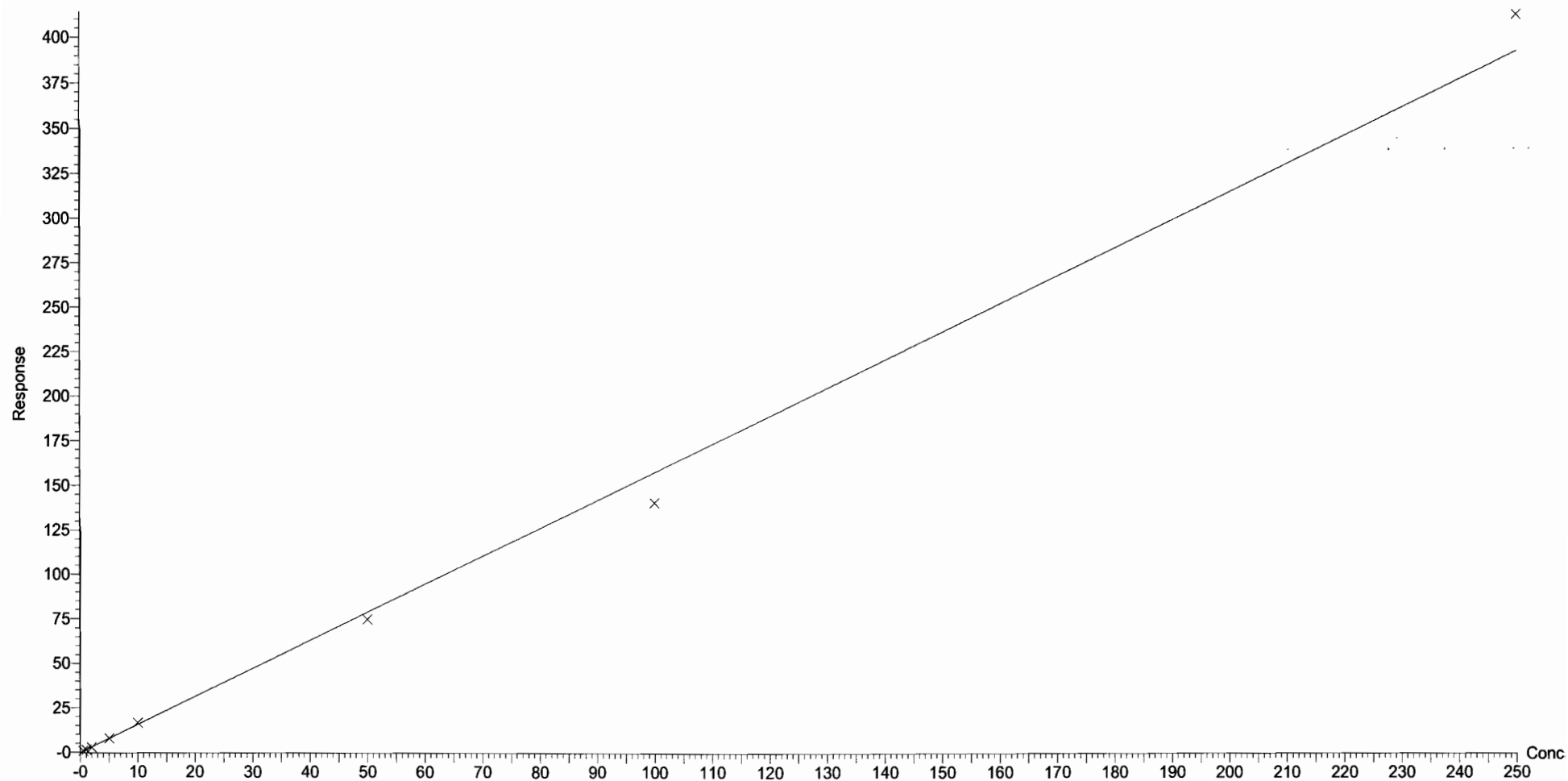
Compound name: PFHpA

Correlation coefficient: $r = 0.997525$, $r^2 = 0.995057$

Calibration curve: $1.57627 * x + -0.166333$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

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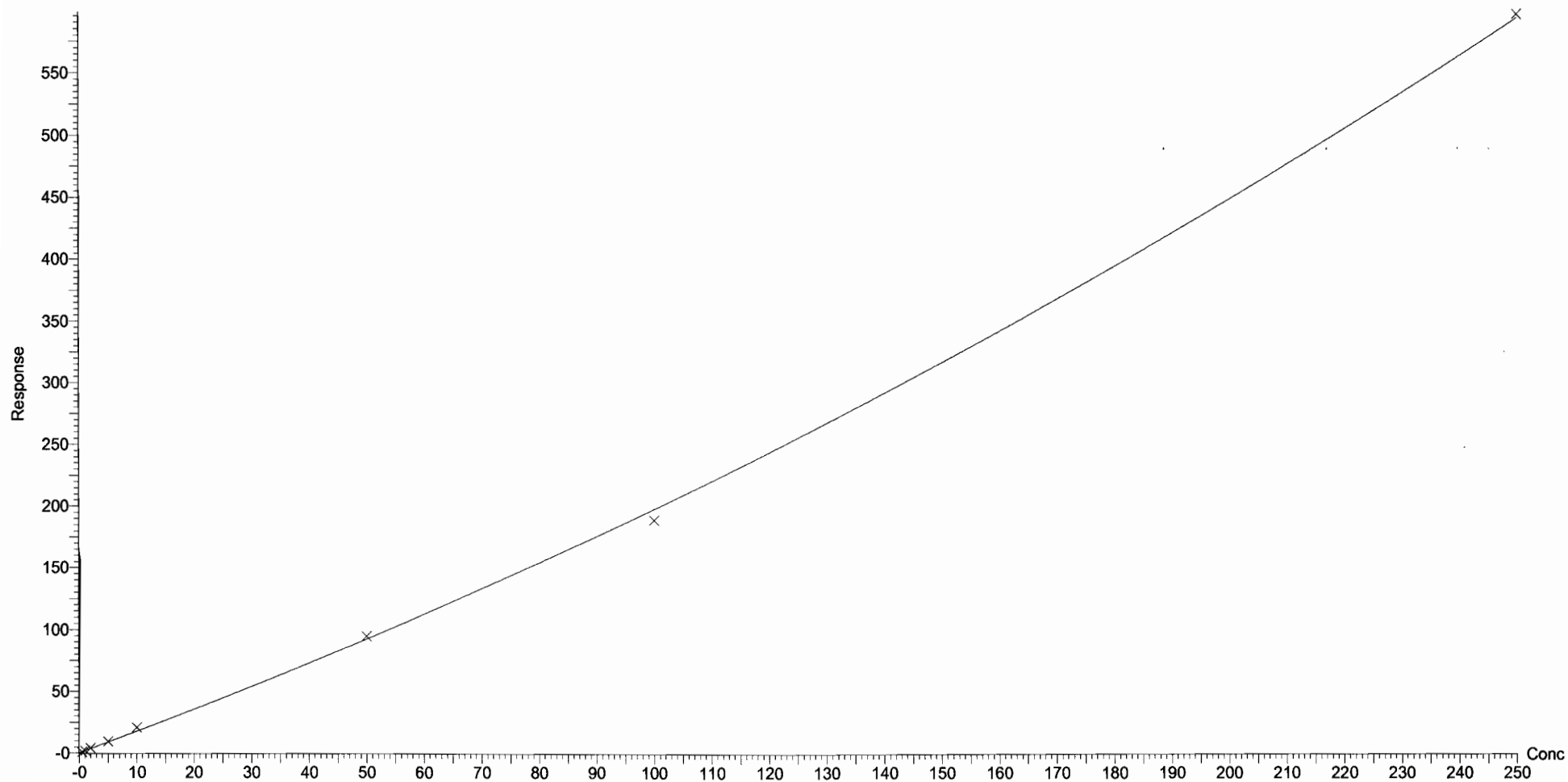
Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.998968$

Calibration curve: $0.00268117 * x^2 + 1.7082 * x + 0.386487$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

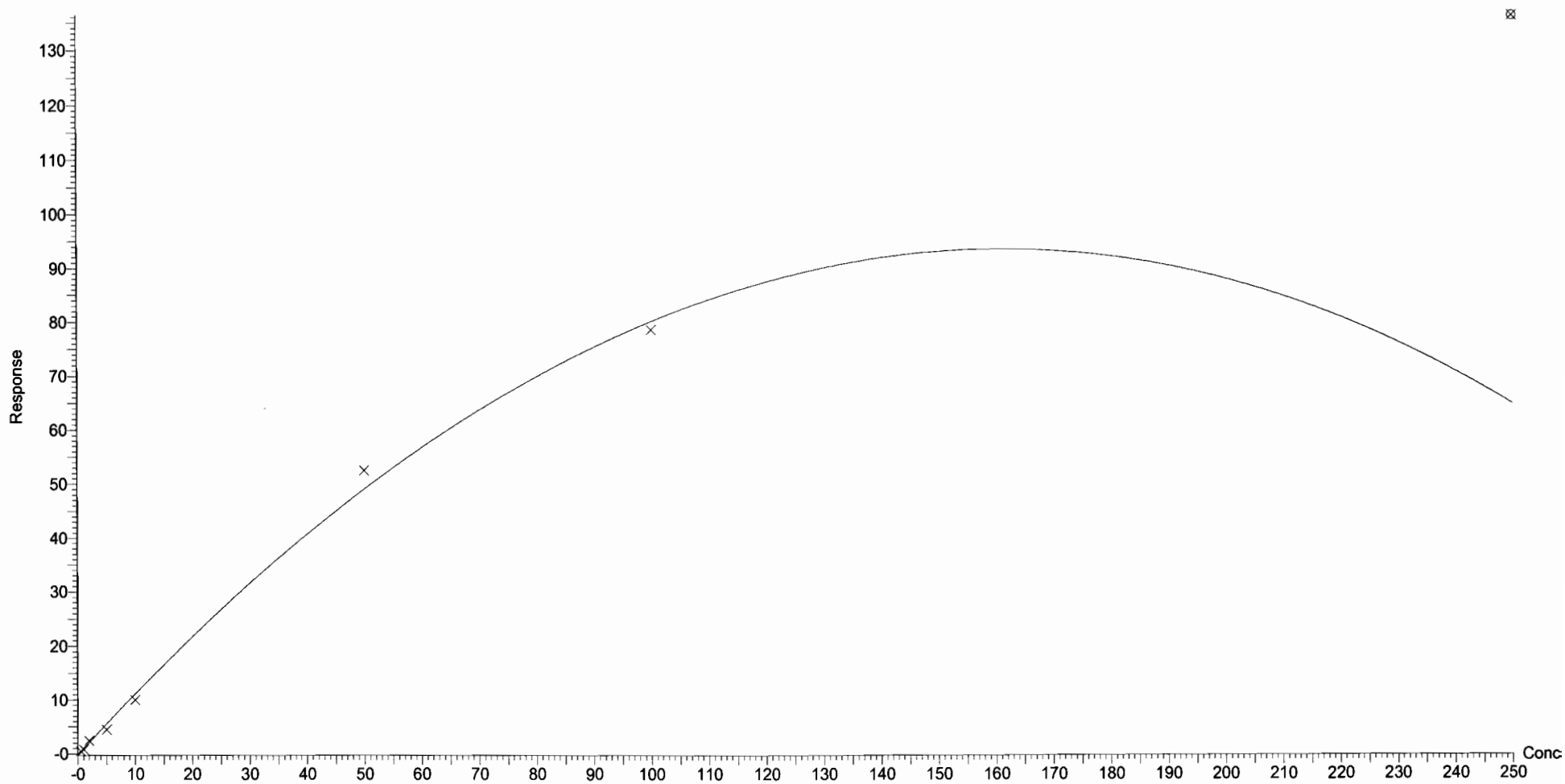
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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Compound name: 6:2 FTS
Coefficient of Determination: $R^2 = 0.994035$
Calibration curve: $-0.00362685 * x^2 + 1.16626 * x + -0.189191$
Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

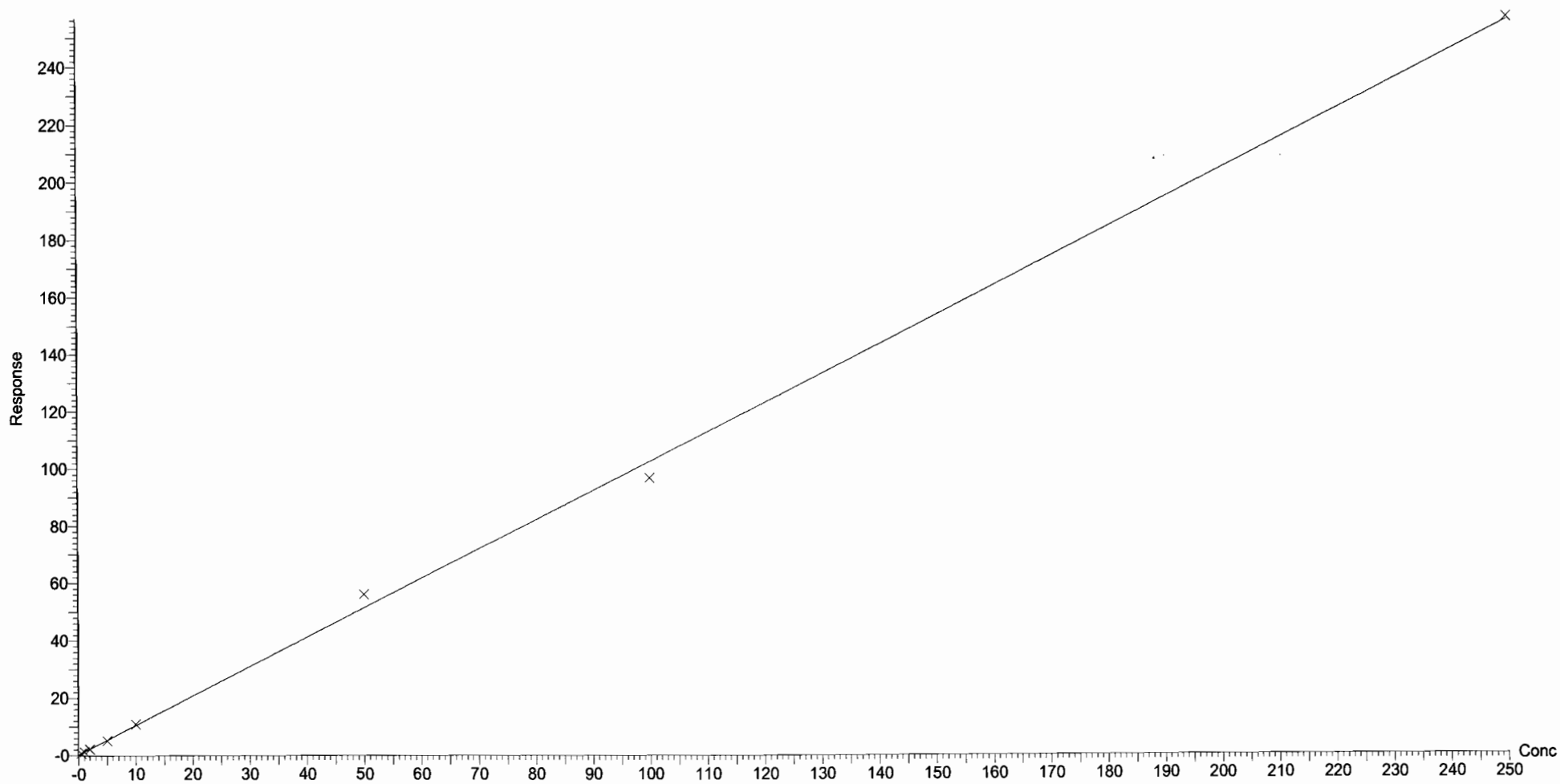
Compound name: L-PFOA

Correlation coefficient: $r = 0.999054$, $r^2 = 0.998110$

Calibration curve: $1.02207 * x + 0.187333$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

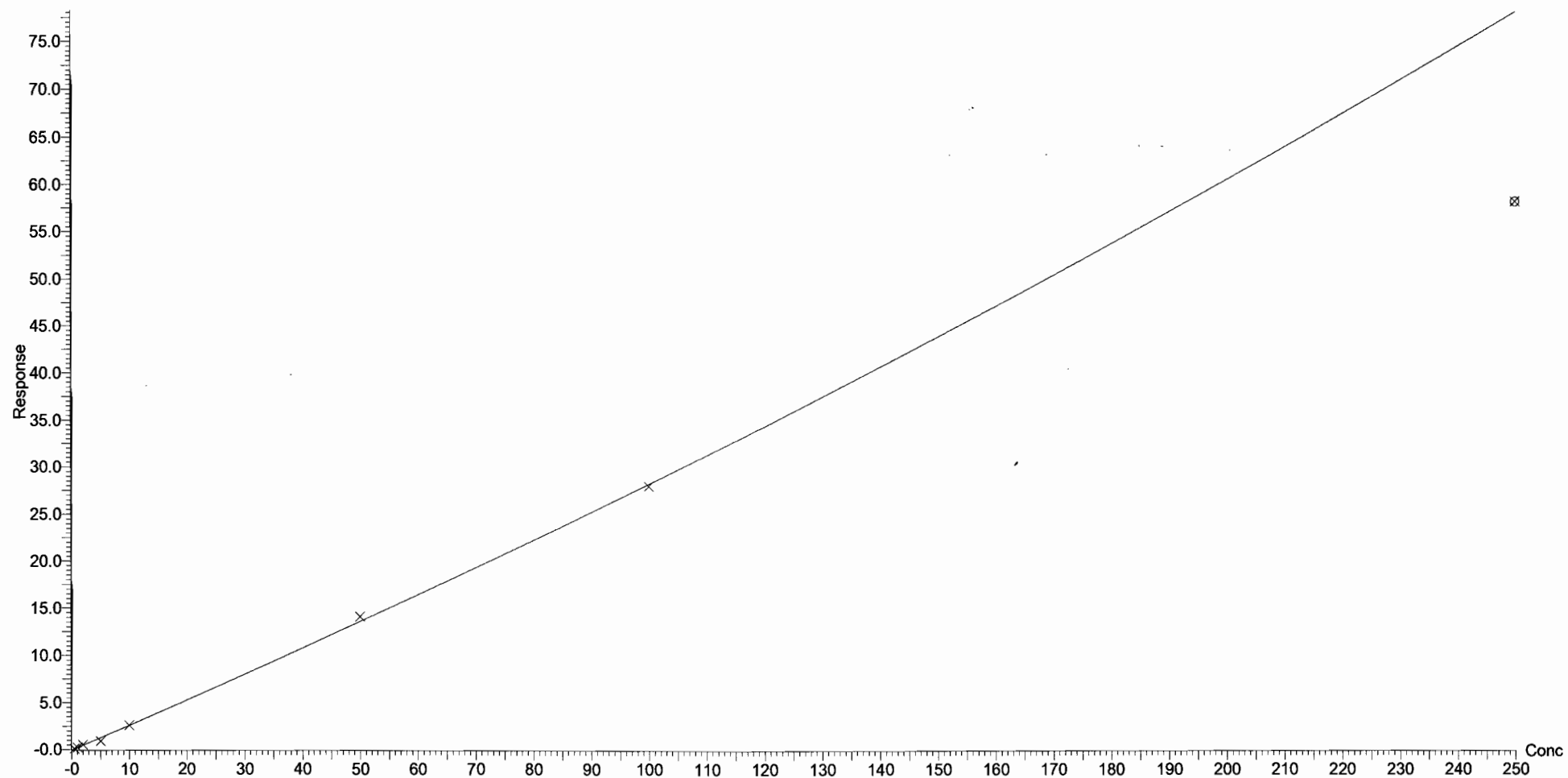
Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.997237$

Calibration curve: $0.000201701 * x^2 + 0.262646 * x + -0.055596$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

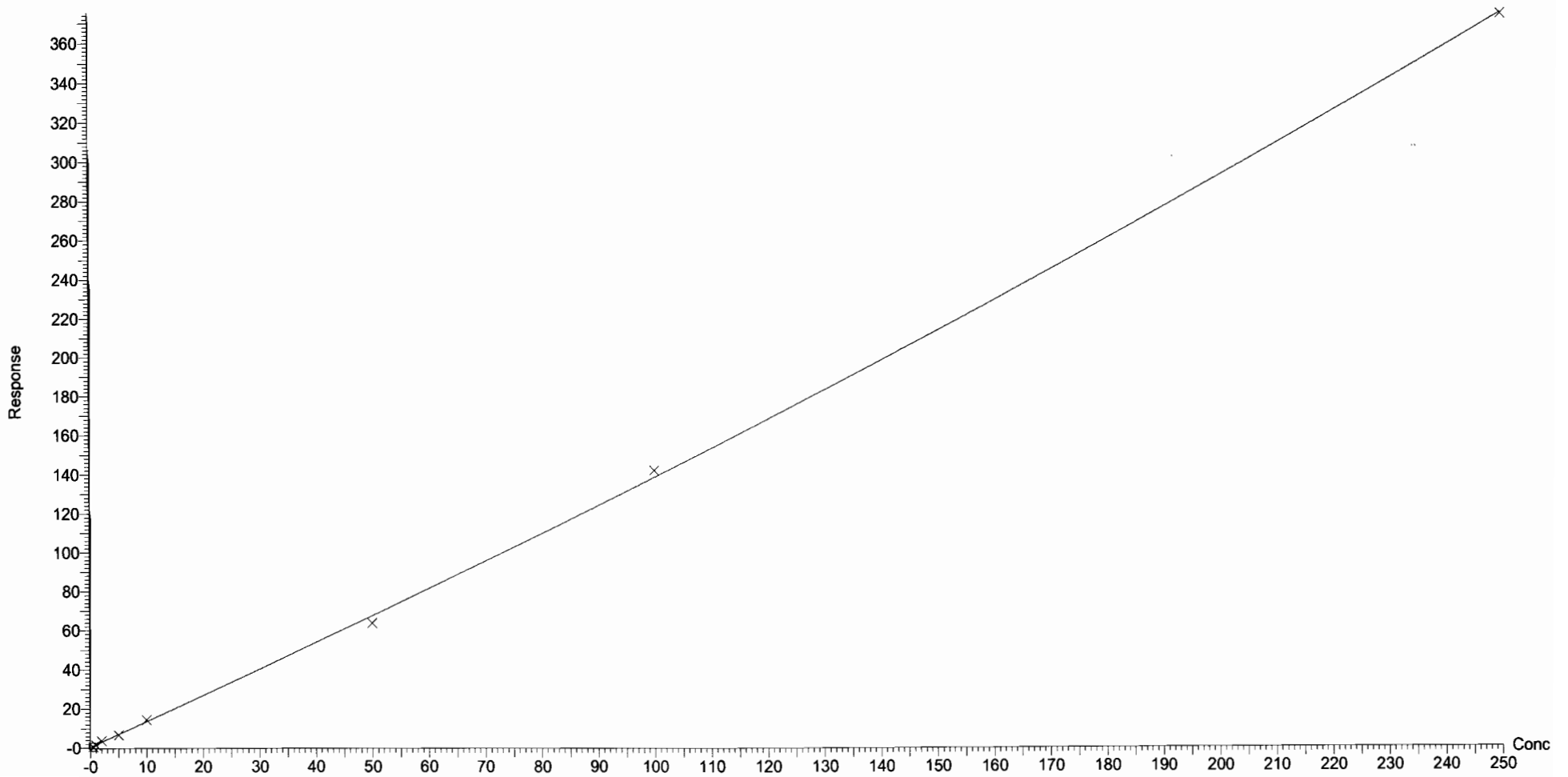
Compound name: PFNA

Coefficient of Determination: $R^2 = 0.999053$

Calibration curve: $0.000799864 * x^2 + 1.29901 * x + 0.480274$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

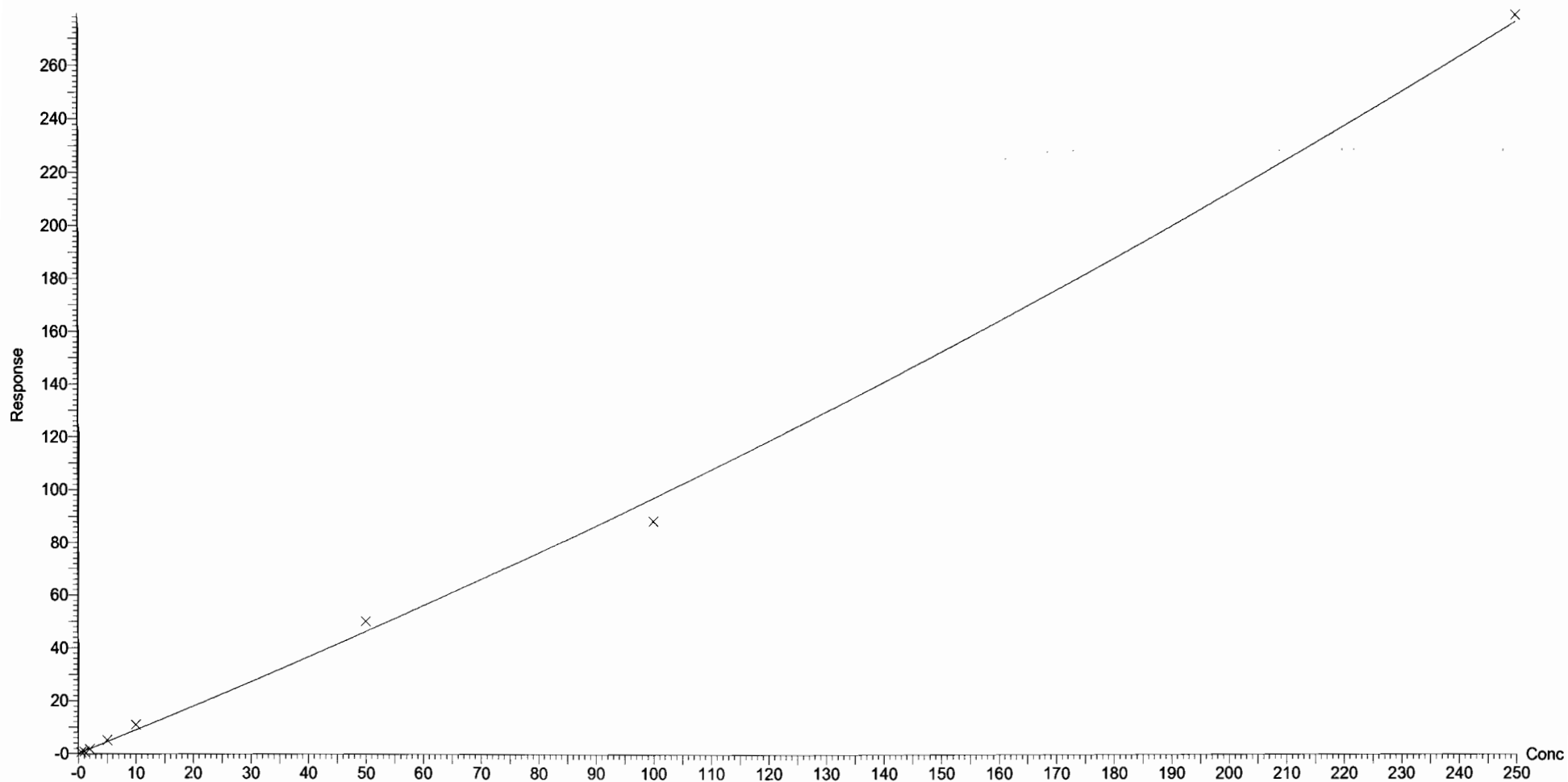
Compound name: PFOSA

Coefficient of Determination: $R^2 = 0.996420$

Calibration curve: $0.000924781 * x^2 + 0.875169 * x + 0.132952$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

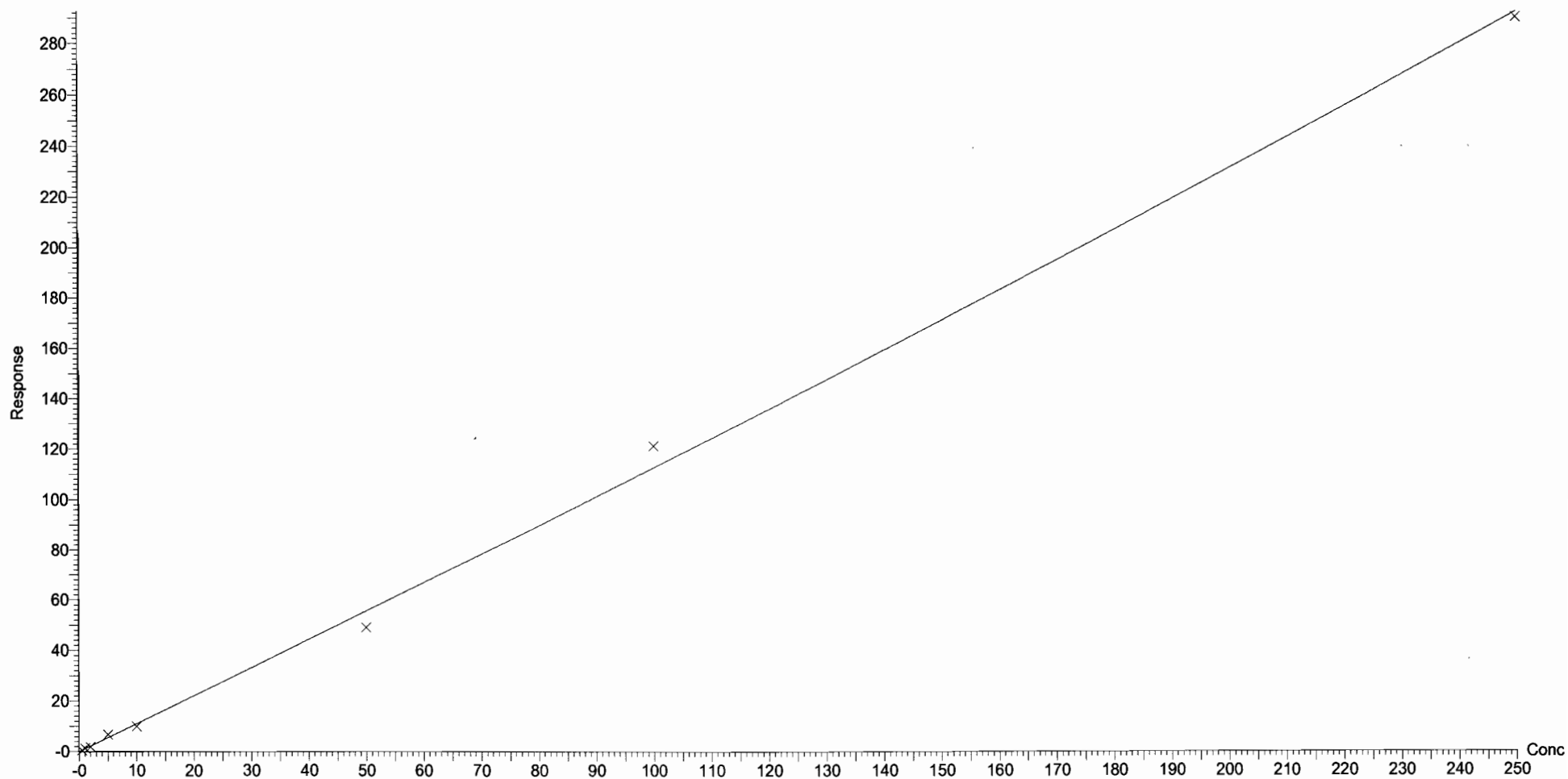
Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.996035$

Calibration curve: $0.000304558 * x^2 + 1.09449 * x + -0.0102225$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

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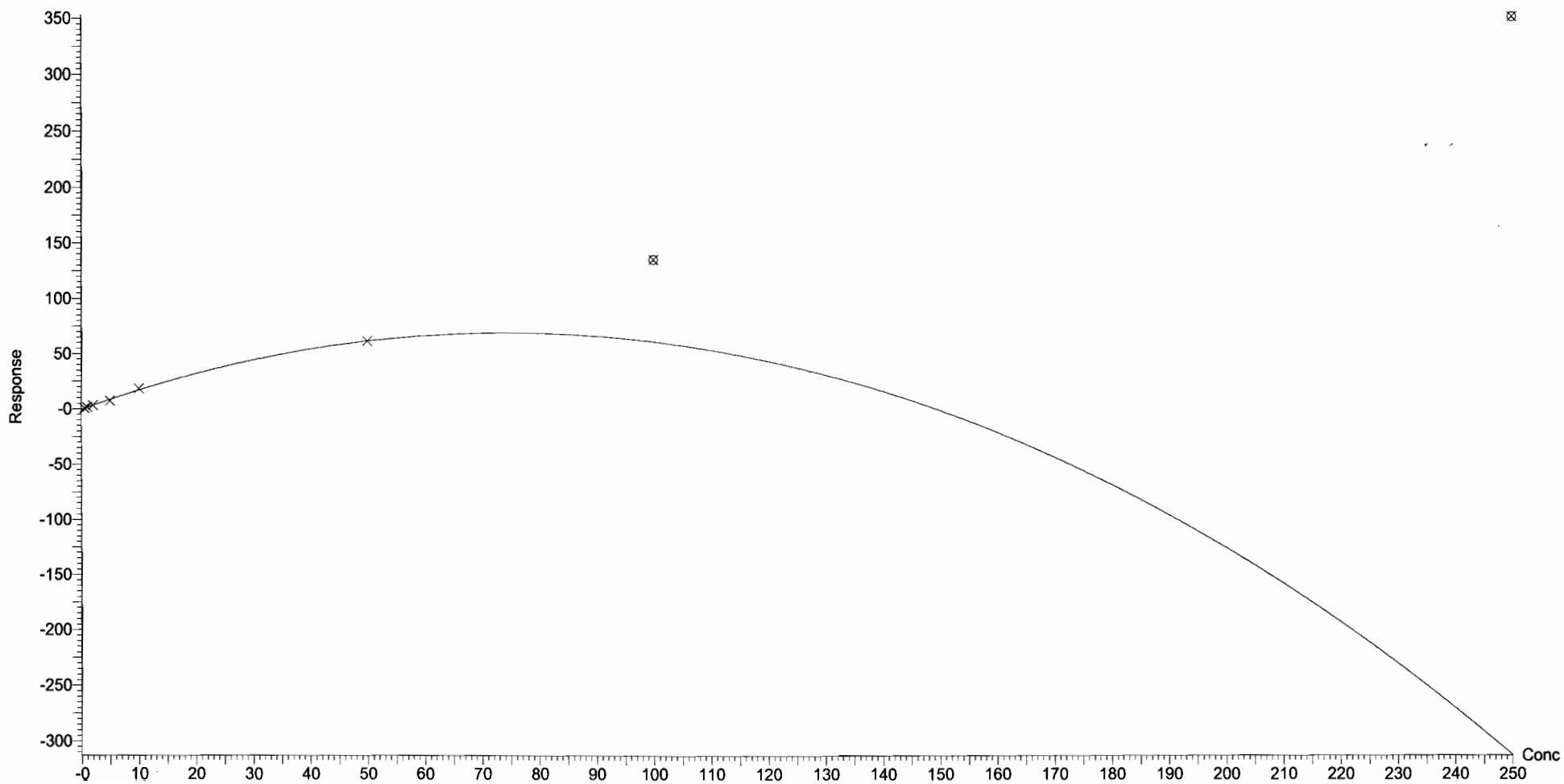
Compound name: PFDA

Coefficient of Determination: $R^2 = 0.994627$

Calibration curve: $-0.0124233 * x^2 + 1.85696 * x + -0.421126$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:59:16 Pacific Standard Time

Printed: Tuesday, December 26, 2017 12:04:42 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317.mdb 26 Dec 2017 10:53:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

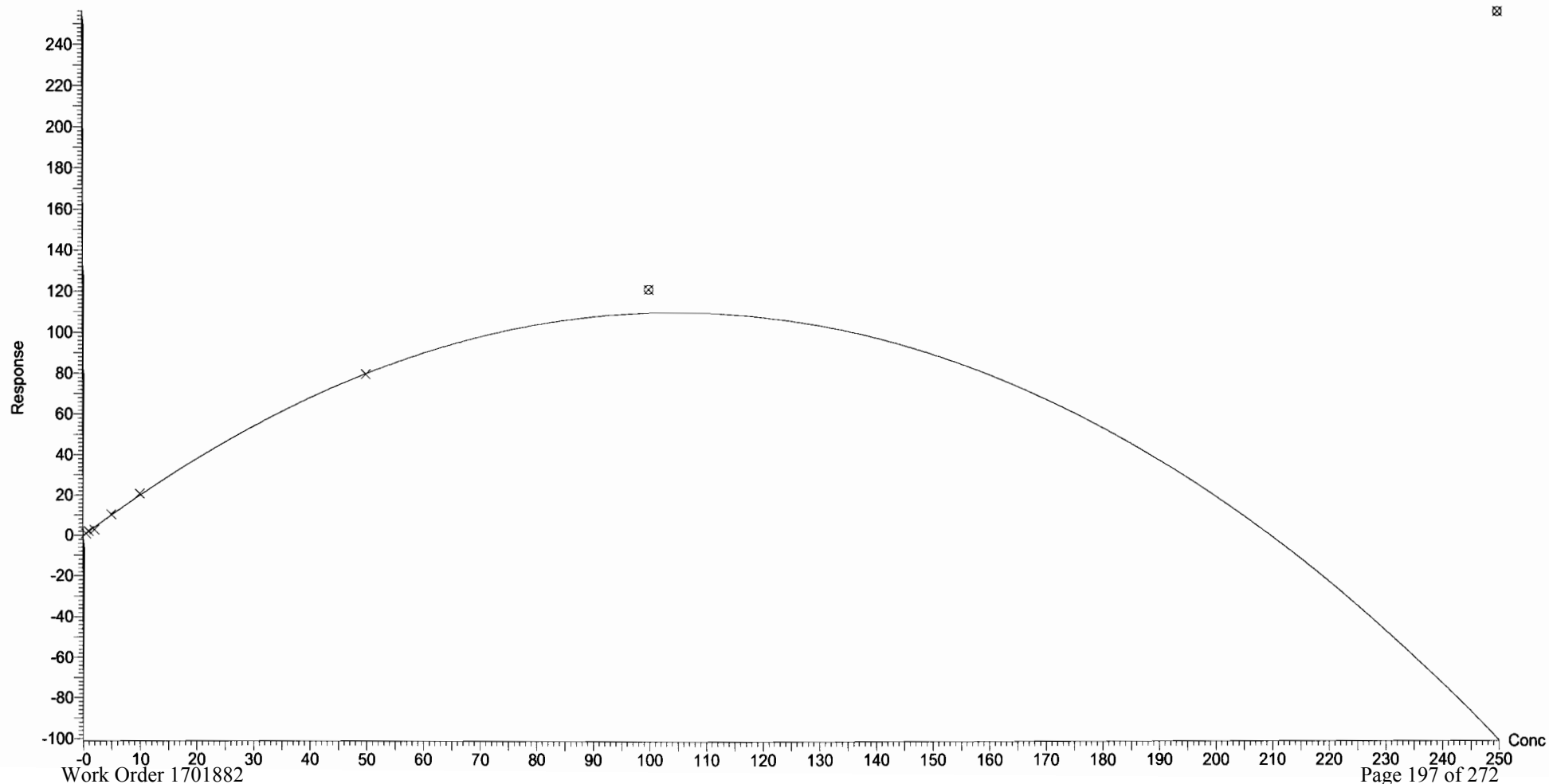
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.995170$

Calibration curve: $-0.0100044 * x^2 + 2.09864 * x + -0.164321$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

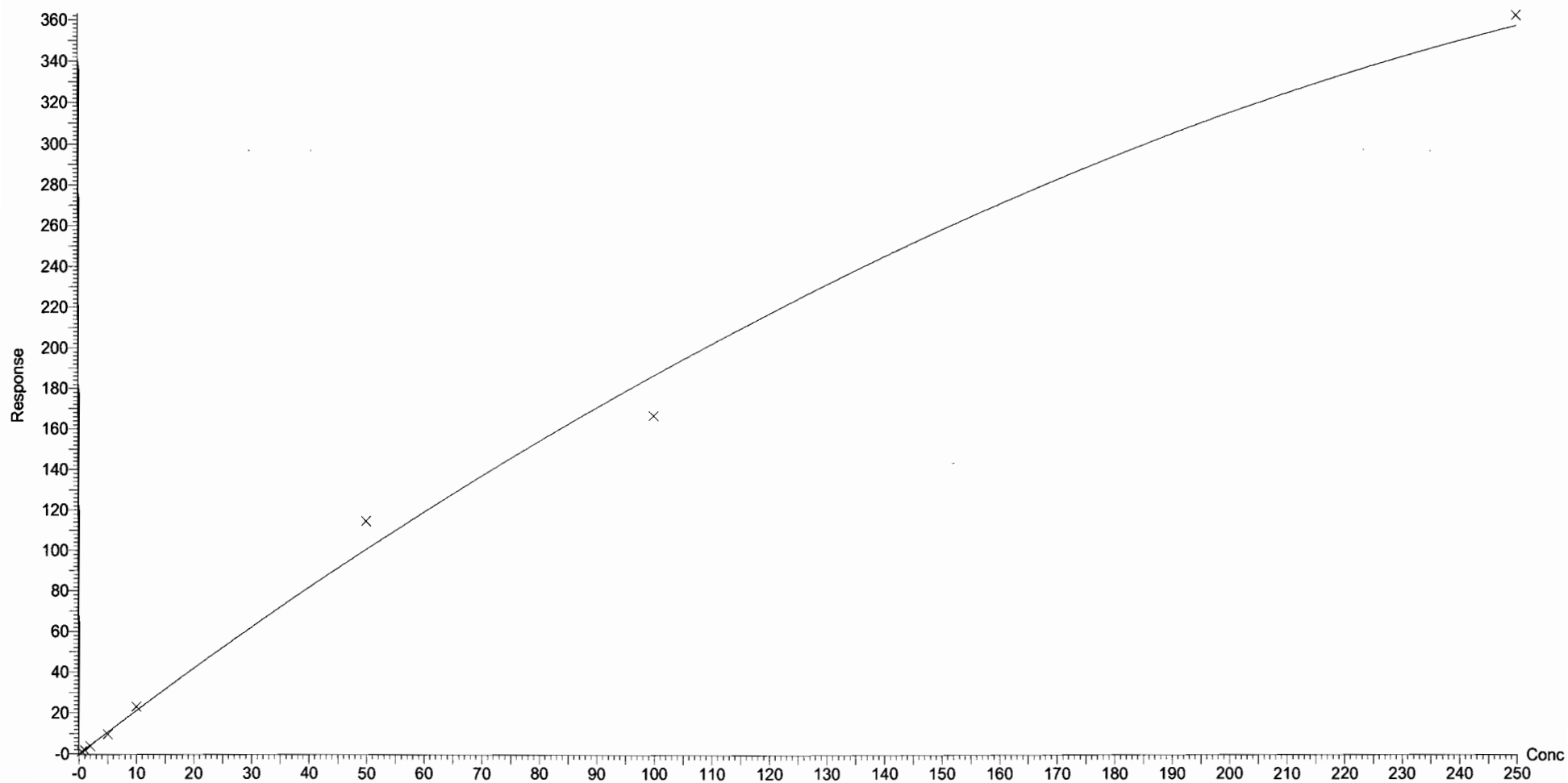
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.991914$

Calibration curve: $-0.00289647 * x^2 + 2.15686 * x + -0.133628$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

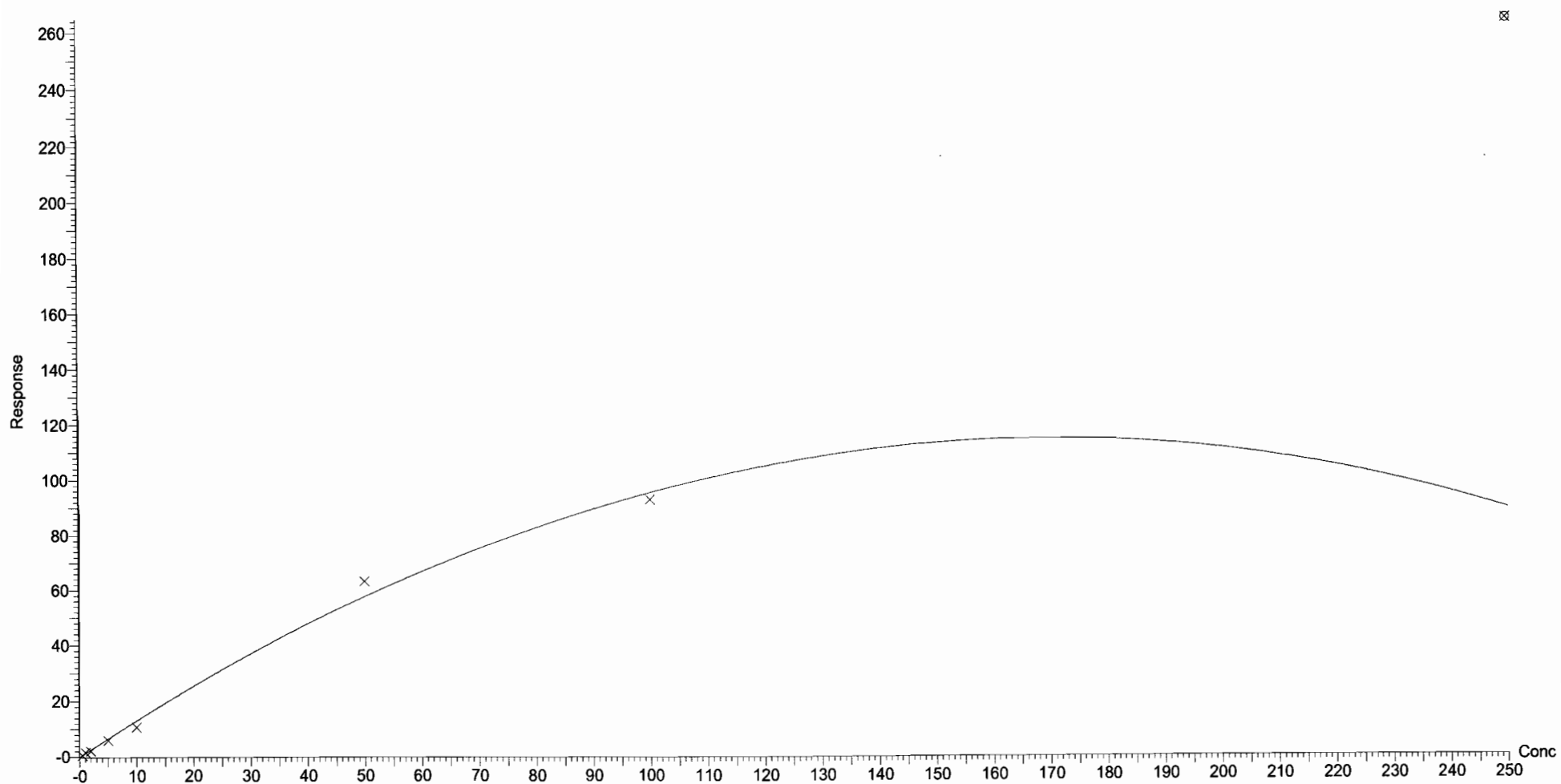


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

Compound name: N-EtFOSAA
Coefficient of Determination: $R^2 = 0.991296$
Calibration curve: $-0.00398643 * x^2 + 1.35225 * x + -0.140973$
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

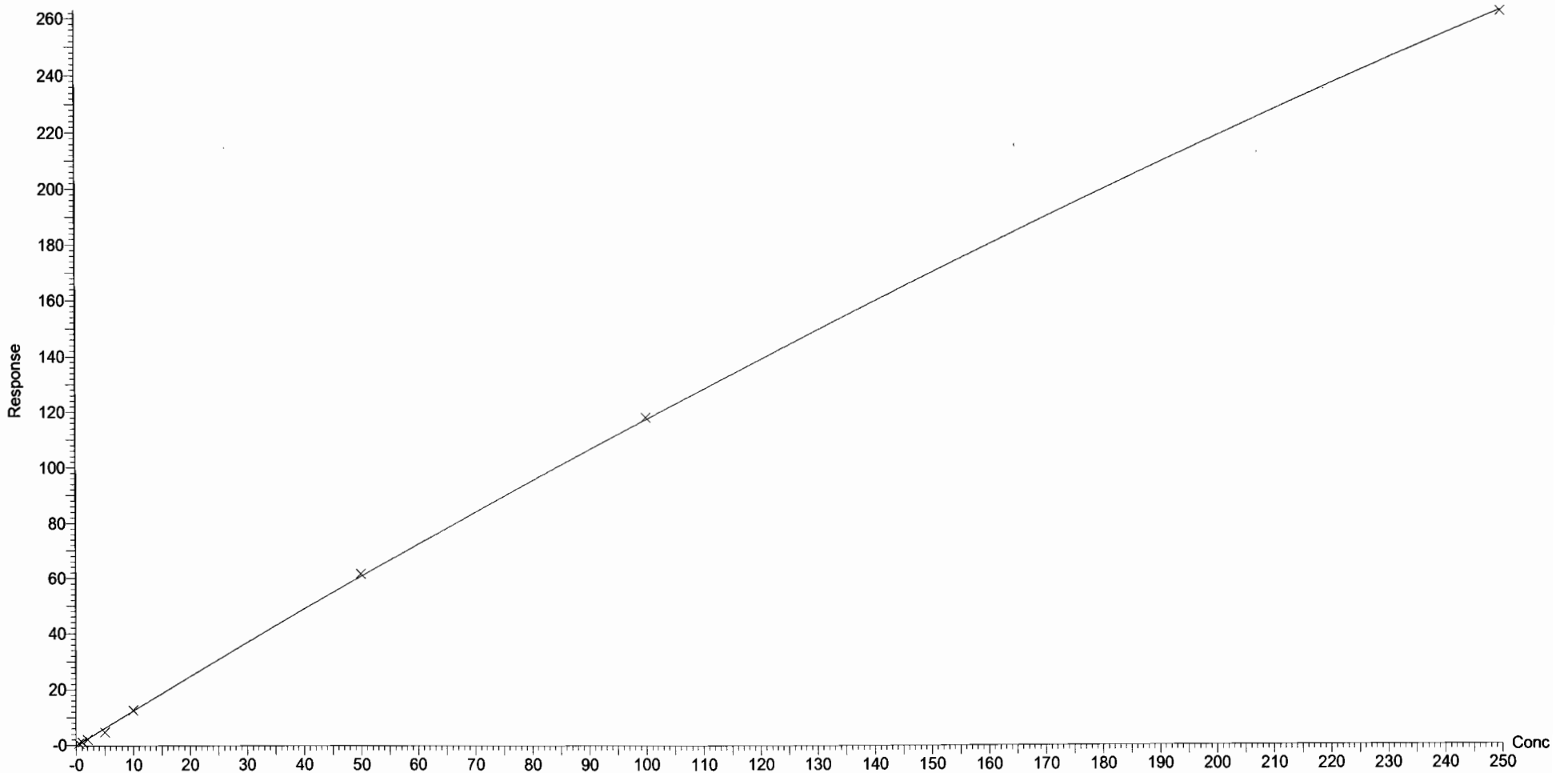
Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.998895$

Calibration curve: $-0.000802257 * x^2 + 1.25313 * x + -0.188737$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

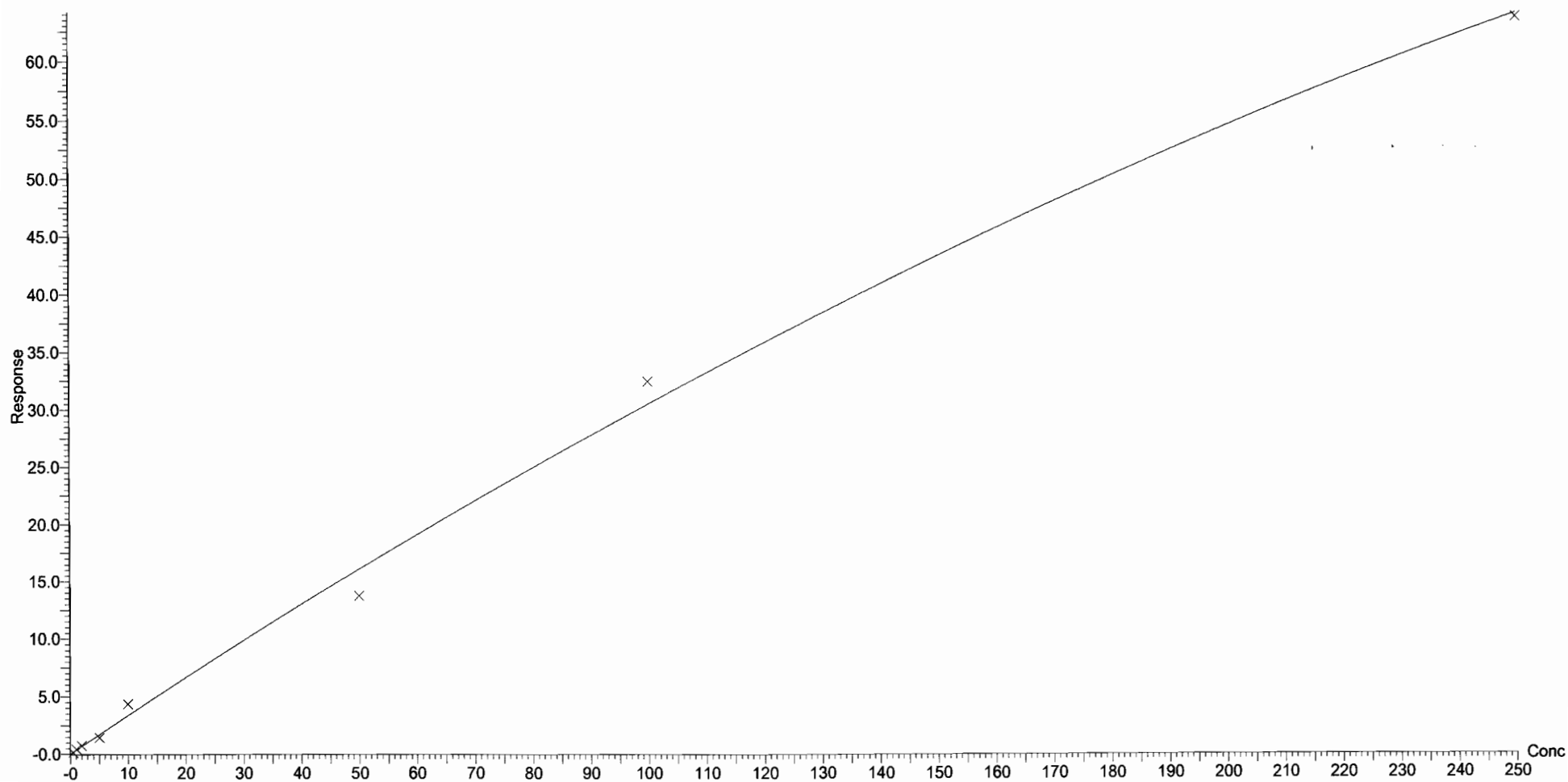
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.991442$

Calibration curve: $-0.000320388 * x^2 + 0.336547 * x + 0.0338867$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

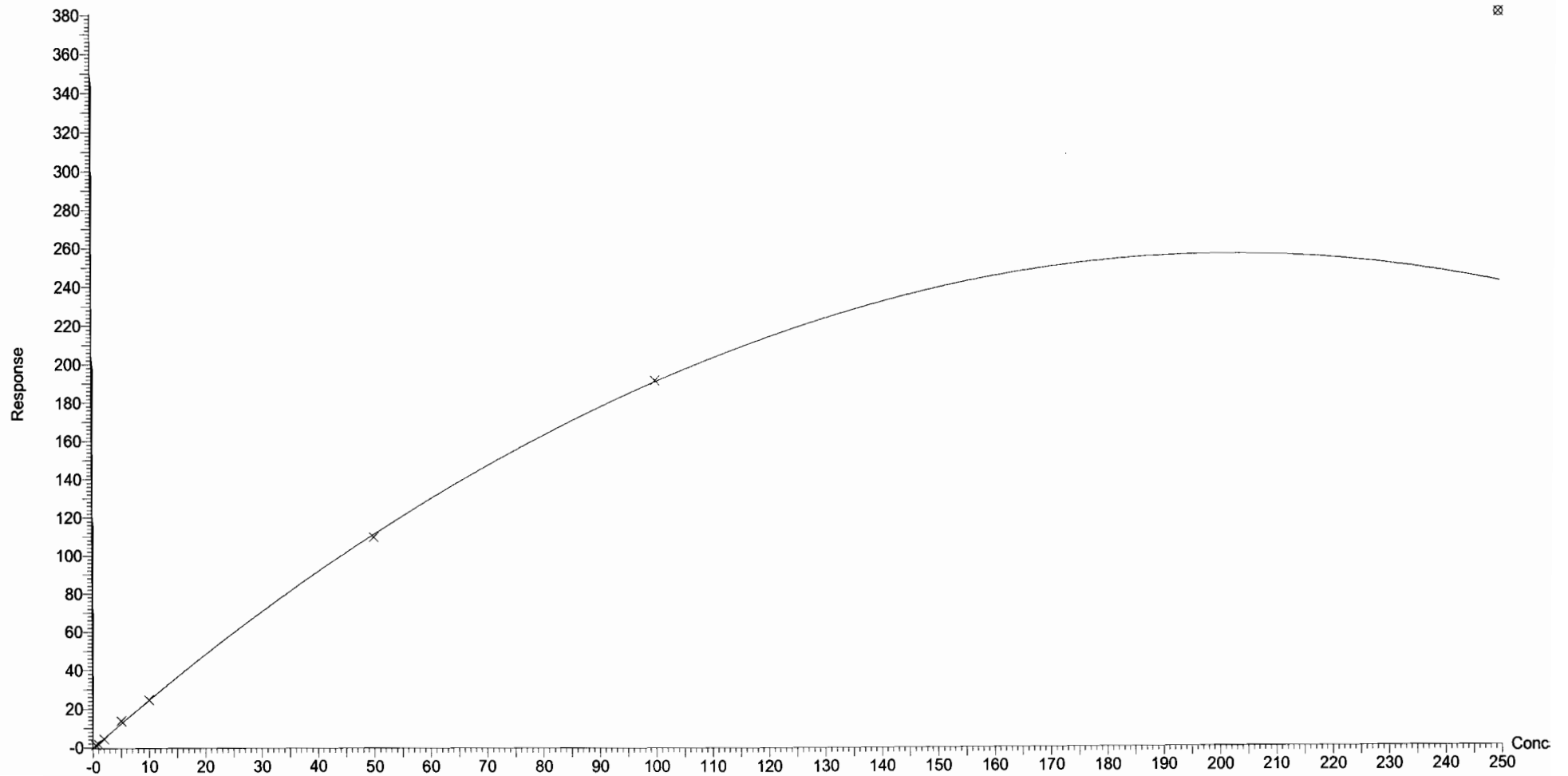


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

Compound name: PFDoA
Coefficient of Determination: $R^2 = 0.998265$
Calibration curve: $-0.00628568 * x^2 + 2.53768 * x + -0.304606$
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

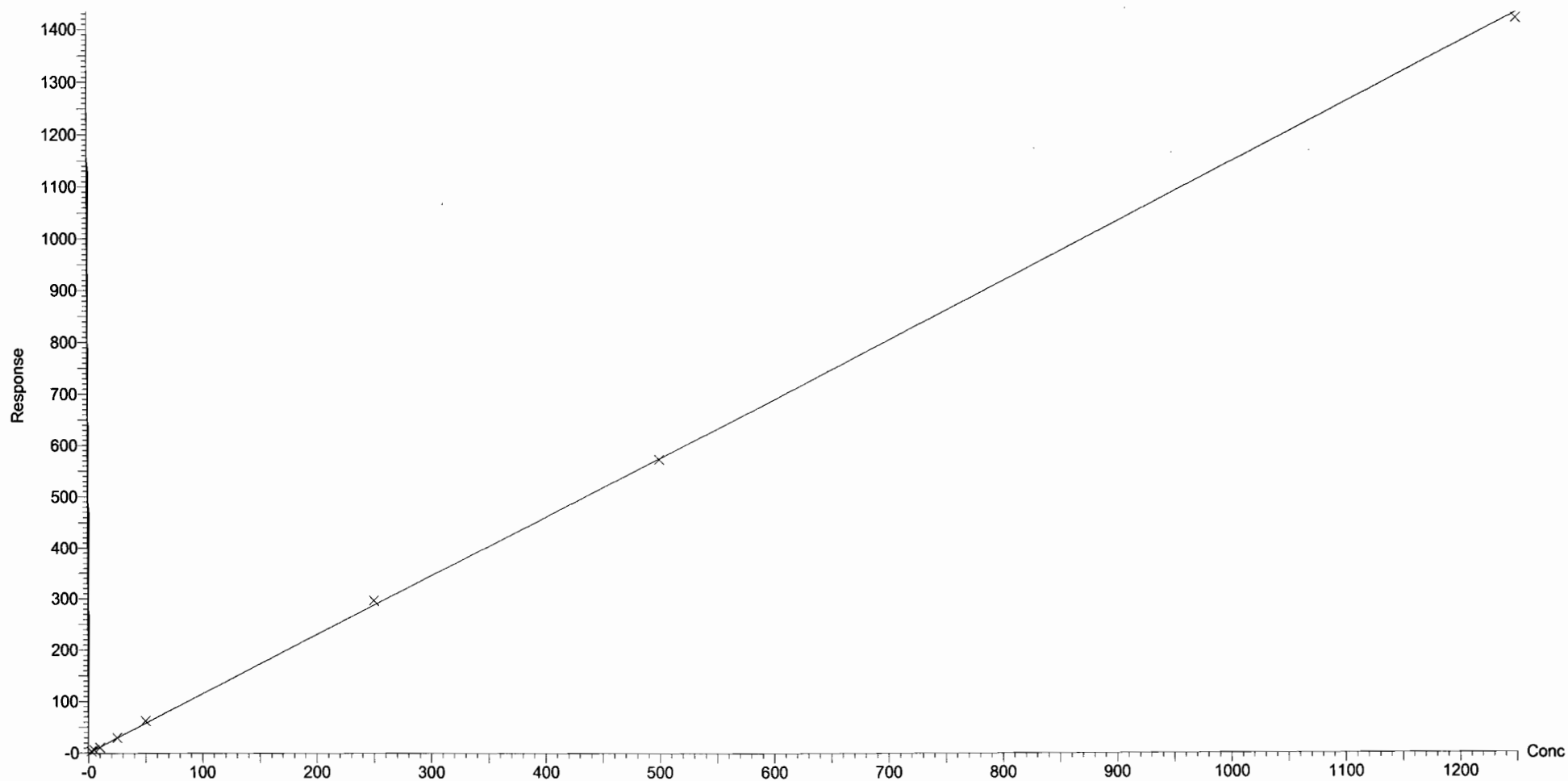
Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999830$, $r^2 = 0.999660$

Calibration curve: $1.14654 * x + 0.235567$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

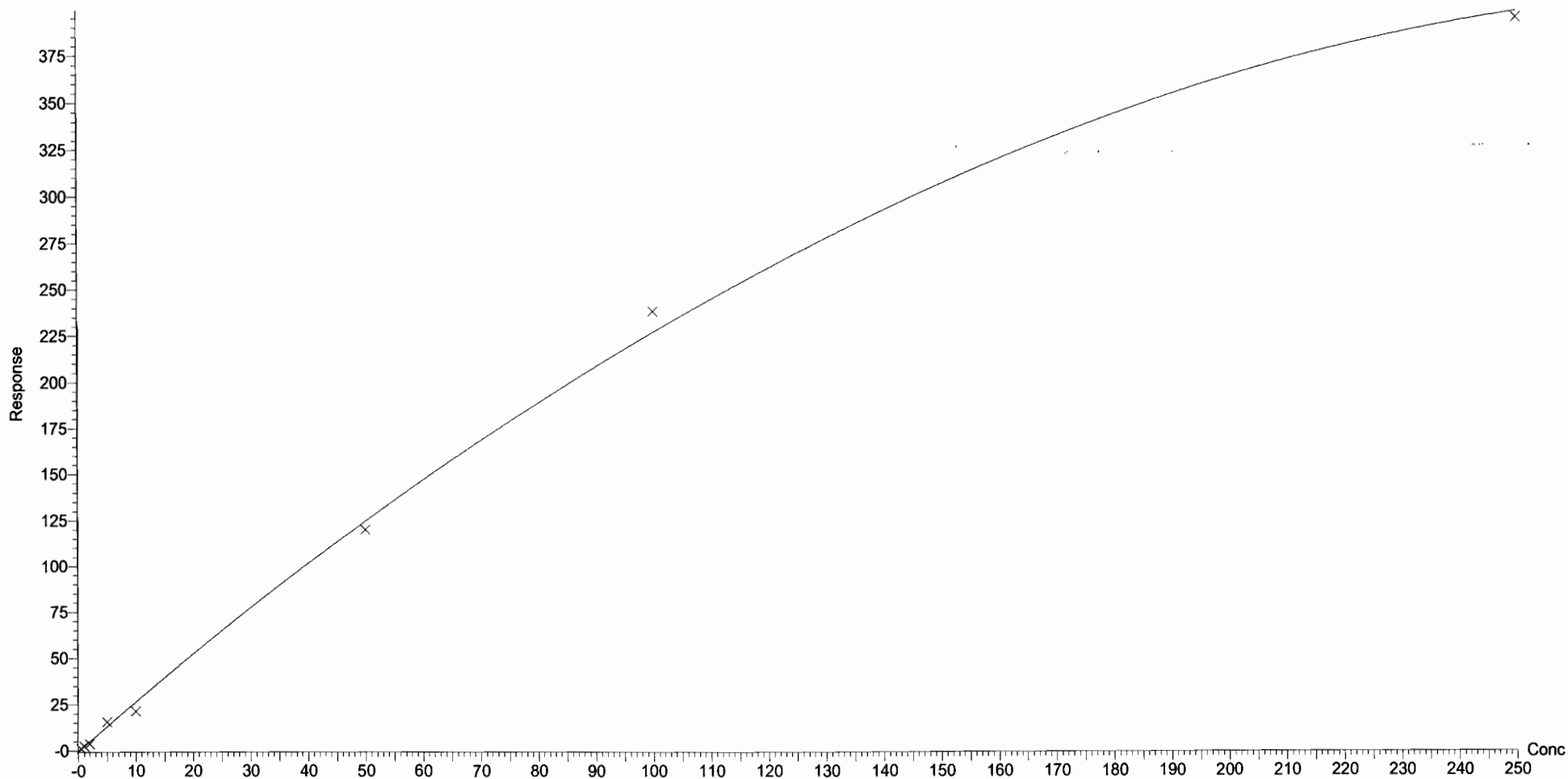
Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.995712$

Calibration curve: $-0.00450981 * x^2 + 2.72534 * x + -0.43903$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

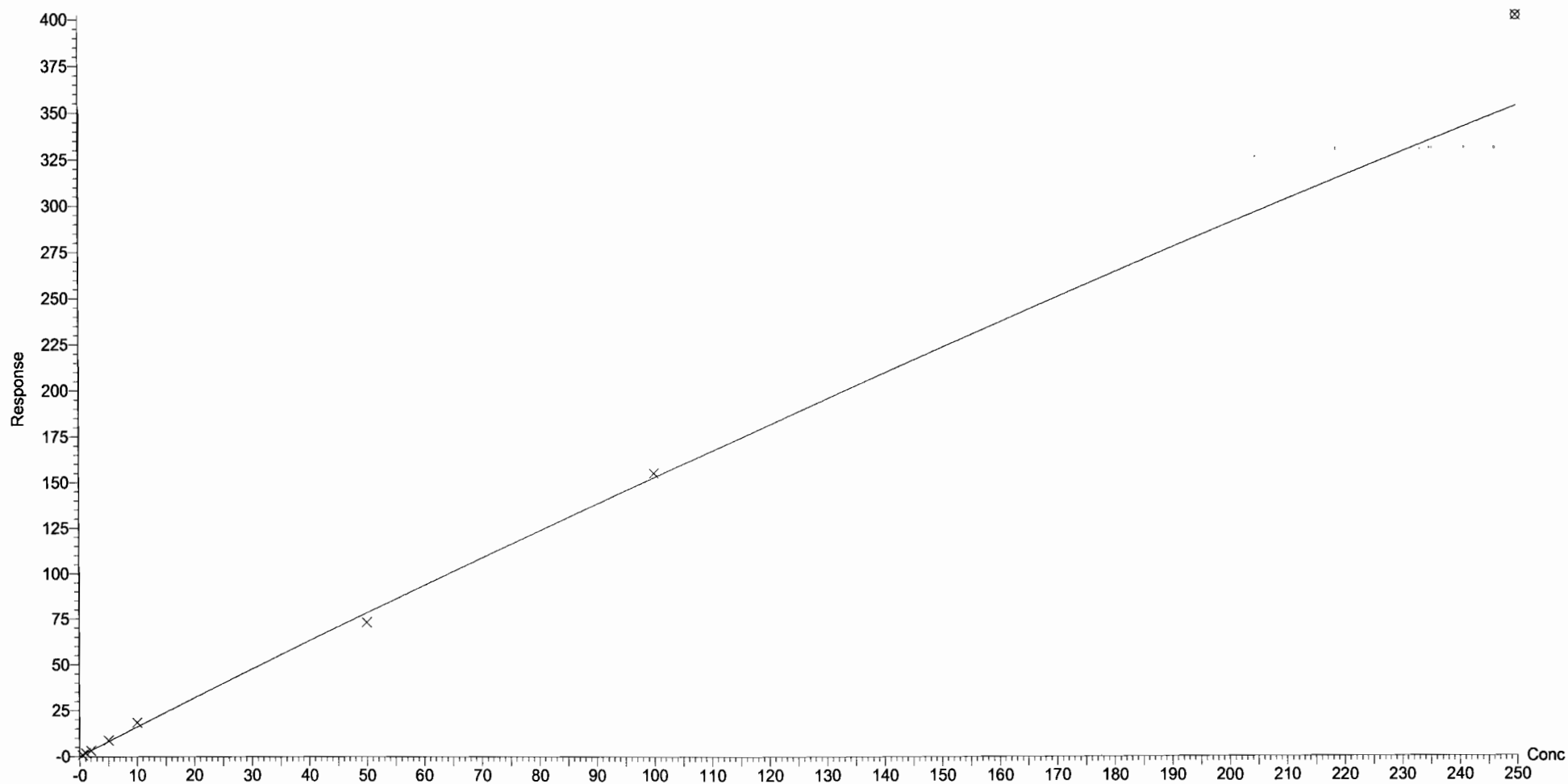
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.996182$

Calibration curve: $-0.000734763 * x^2 + 1.59588 * x + 0.17553$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

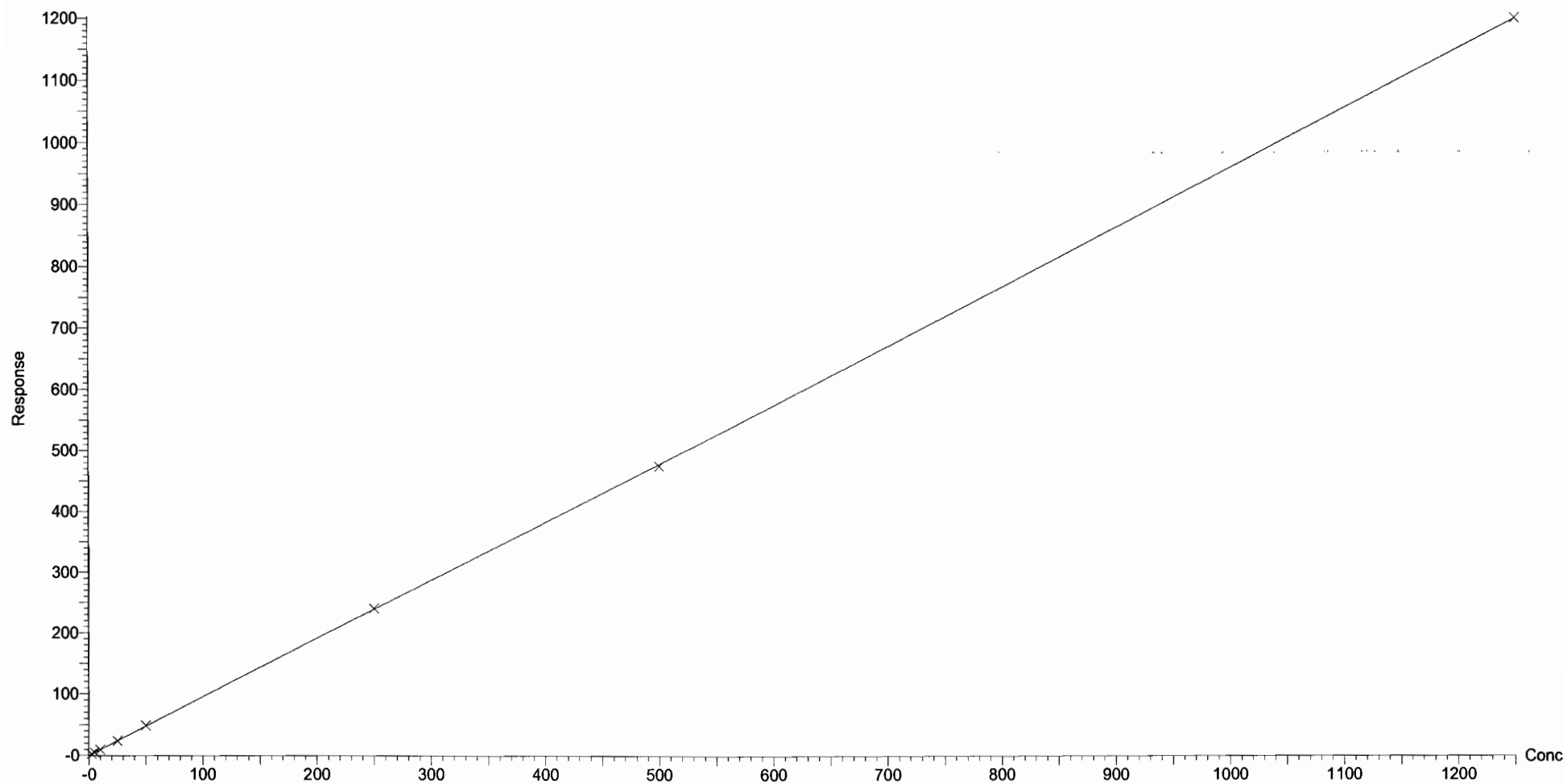
Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.999970$

Calibration curve: $8.81956e-006 * x^2 + 0.950508 * x + 0.113159$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

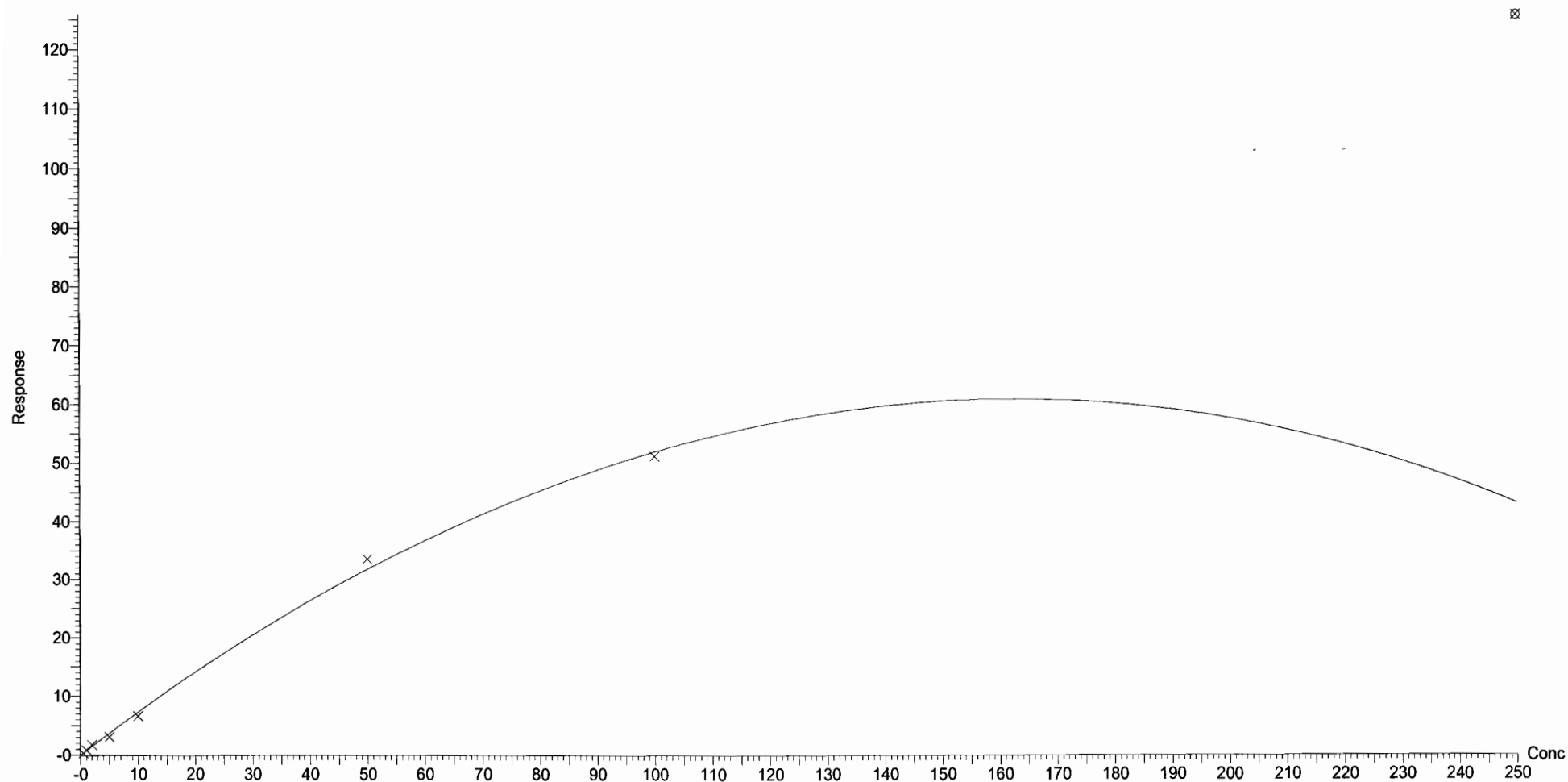
Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.995600$

Calibration curve: $-0.00231275 * x^2 + 0.750107 * x + -0.00105247$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

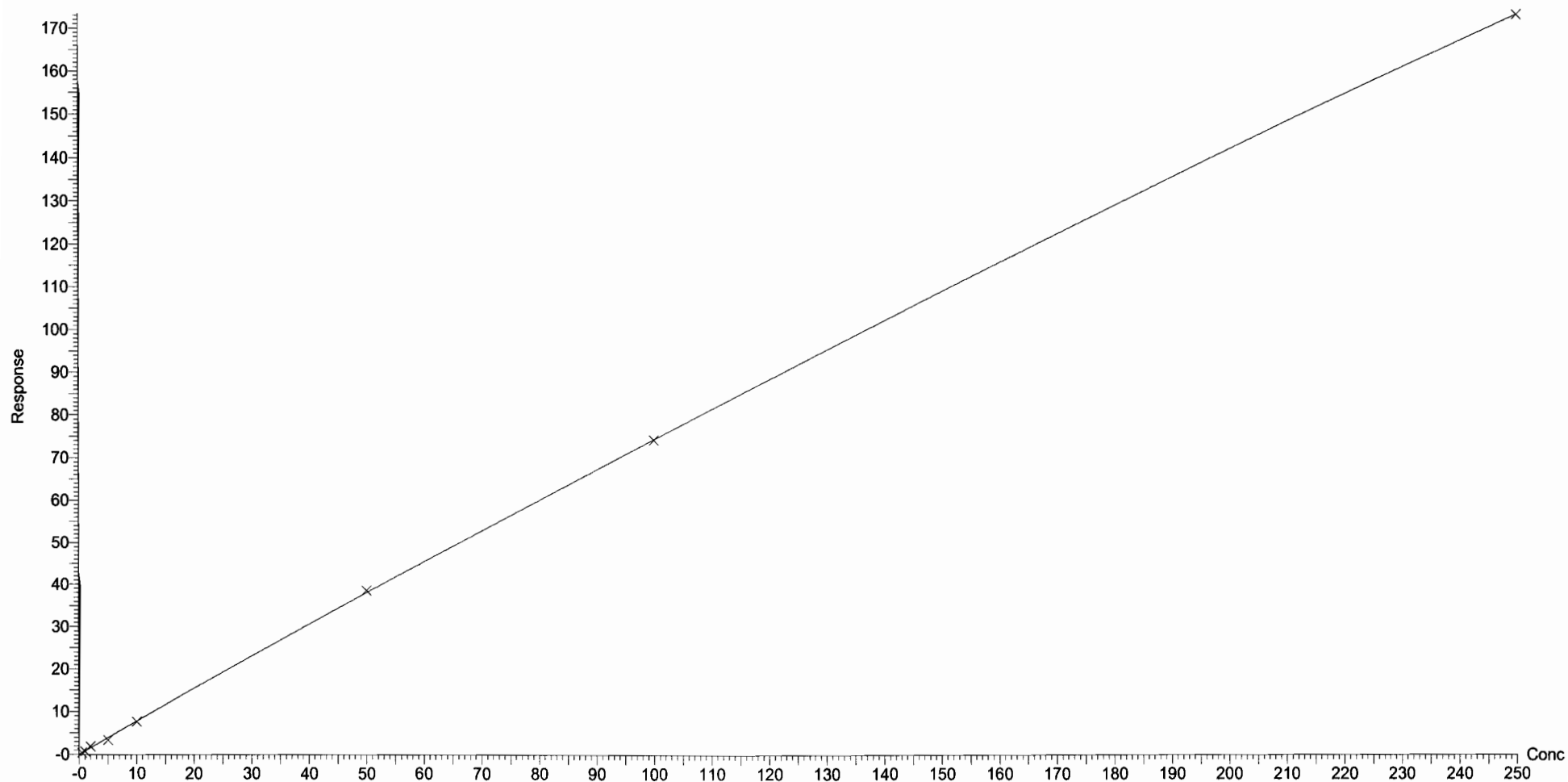
Compound name: PFODA

Coefficient of Determination: $R^2 = 0.999426$

Calibration curve: $-0.000328739 * x^2 + 0.775583 * x + 0.0149239$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

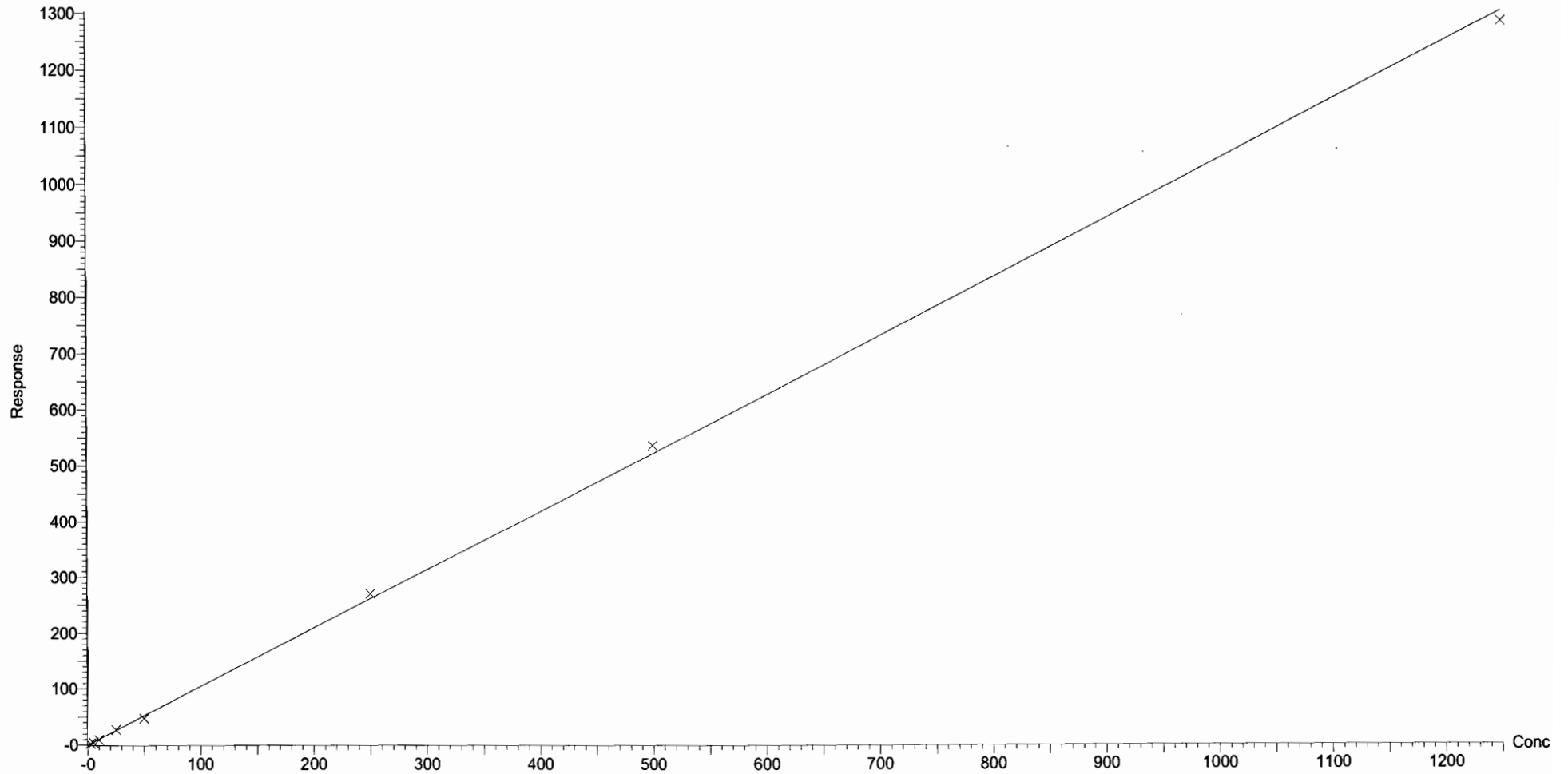
Compound name: N-MeFOSE

Correlation coefficient: $r = 0.999593$, $r^2 = 0.999185$

Calibration curve: $1.0422 * x + -0.306552$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

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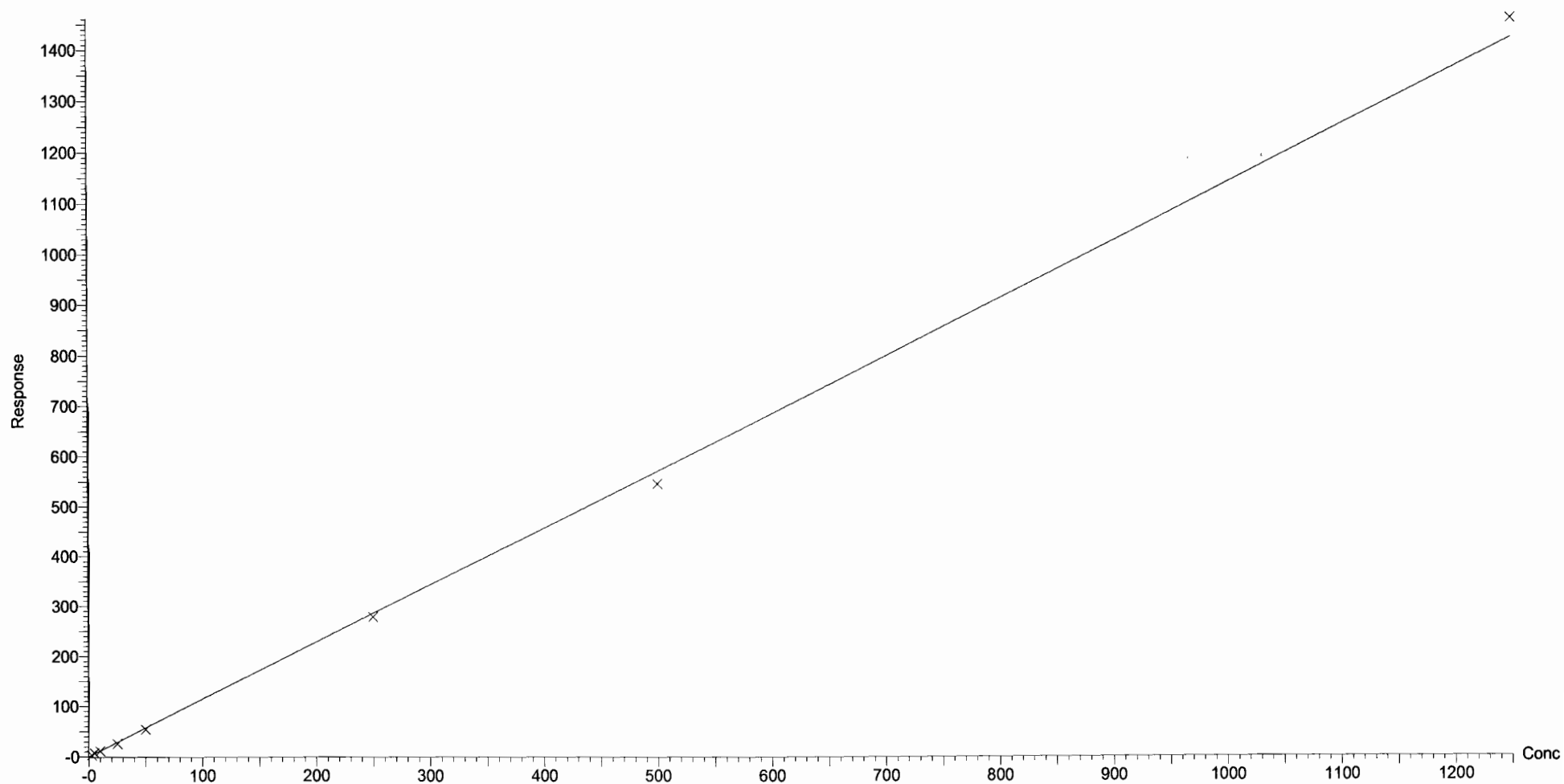
Compound name: N-EtFOSE

Correlation coefficient: $r = 0.999312$, $r^2 = 0.998625$

Calibration curve: $1.13816 * x + 0.320191$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

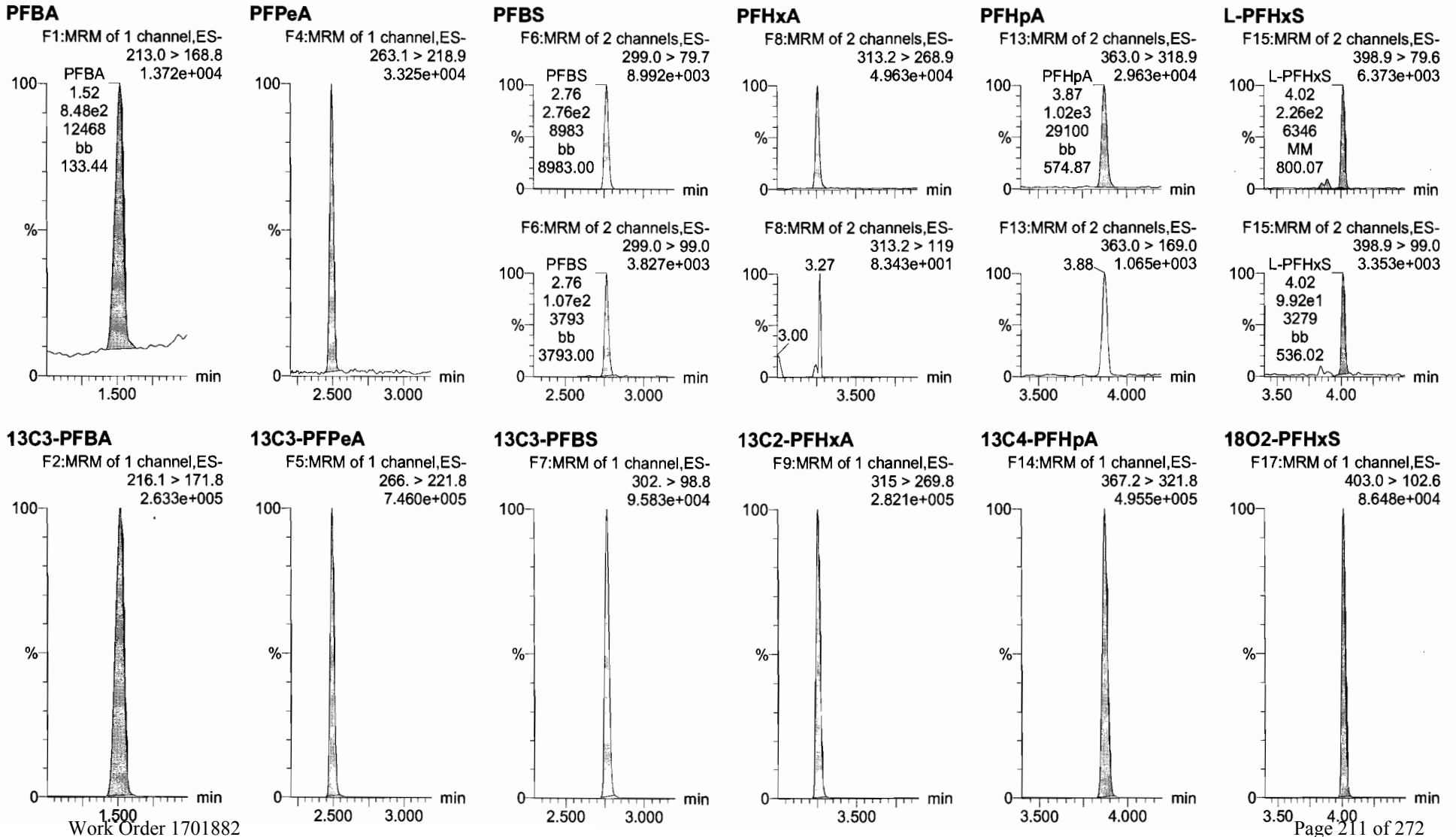


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317.mdb 26 Dec 2017 10:53:30
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:31:17

Name: 171223M1_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

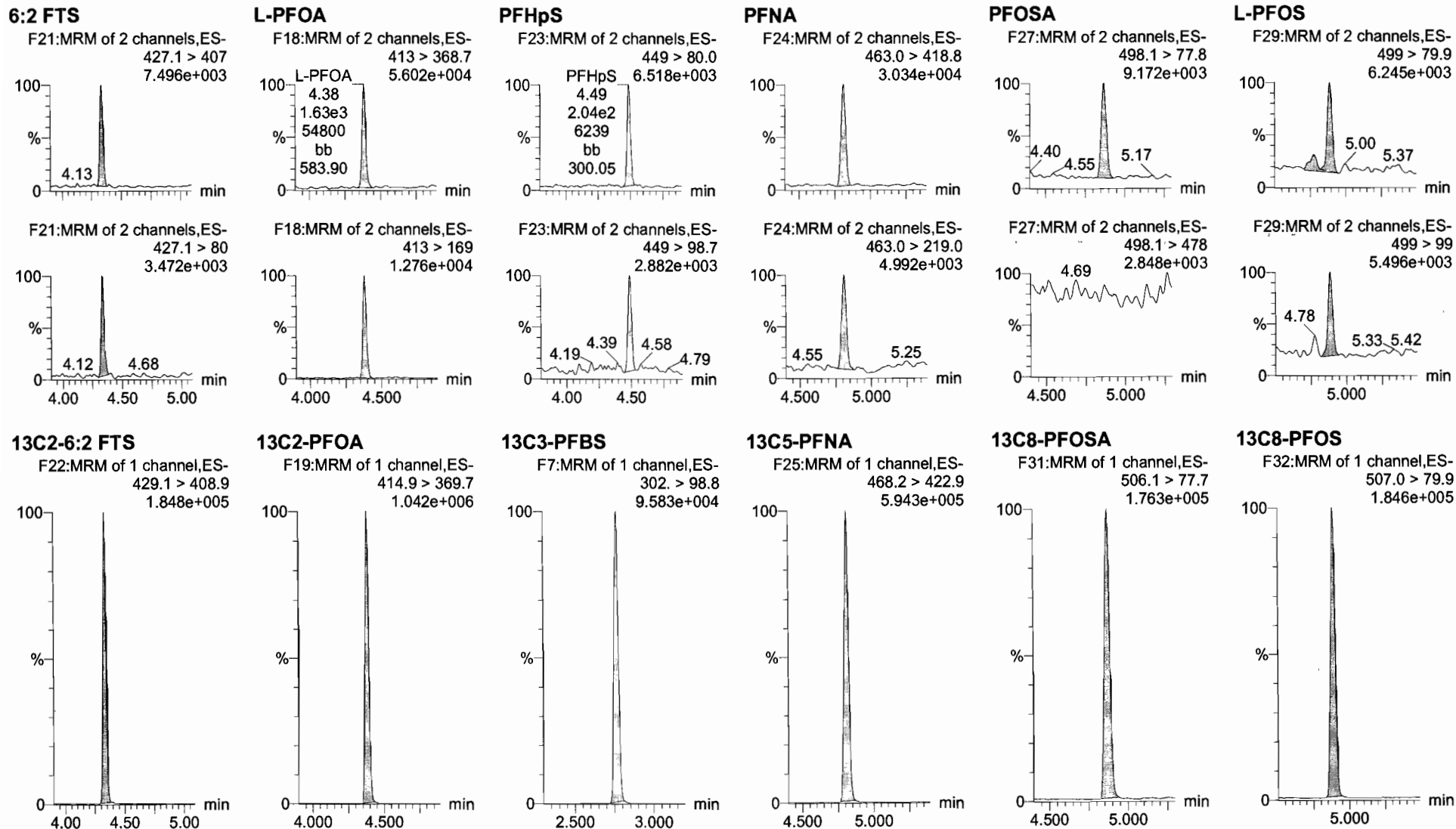


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203



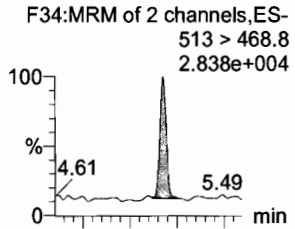
Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

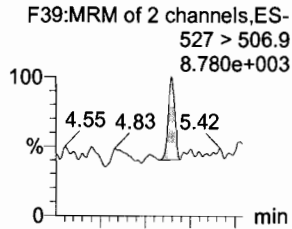
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

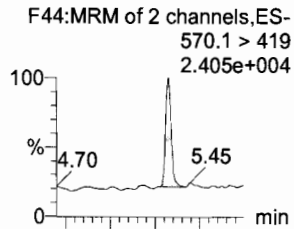
PFDA



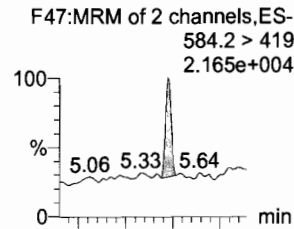
8:2 FTS



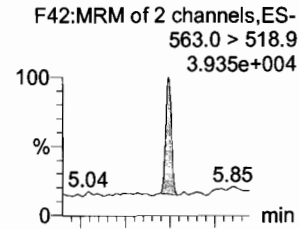
N-MeFOSAA



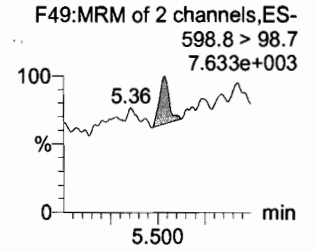
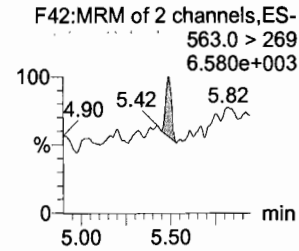
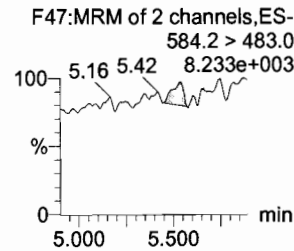
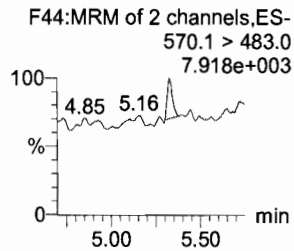
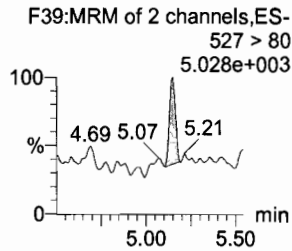
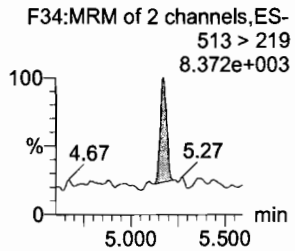
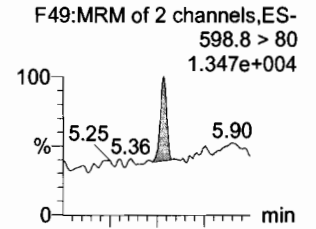
N-EtFOSAA



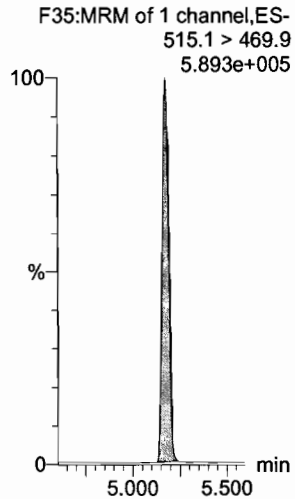
PFUdA



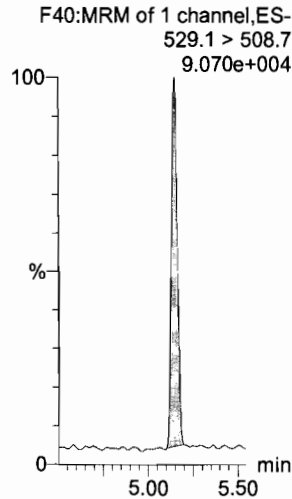
PFDS



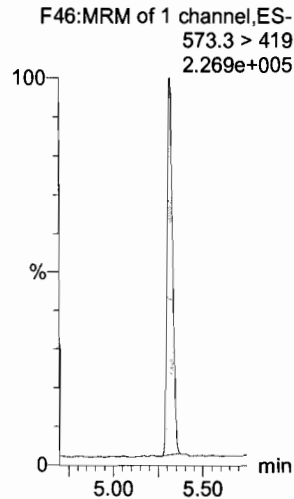
13C2-PFDA



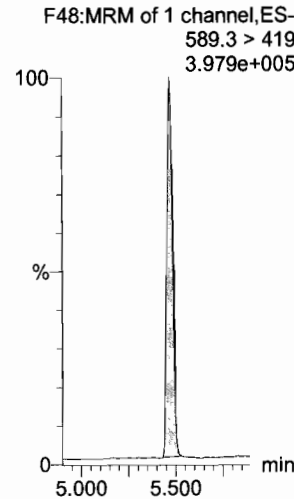
13C2-8:2 FTS



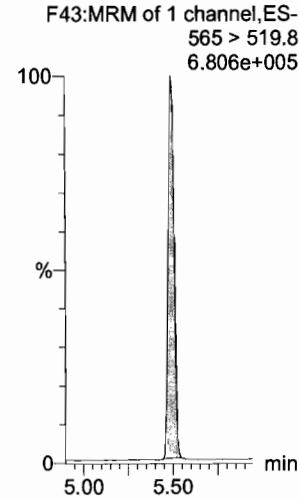
d3-N-MeFOSAA



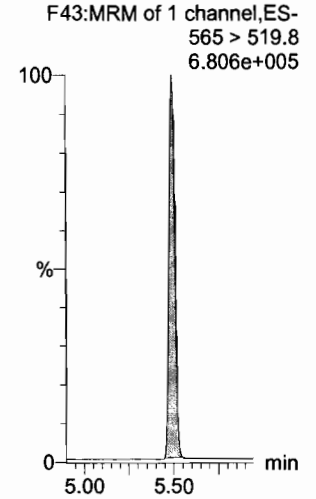
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



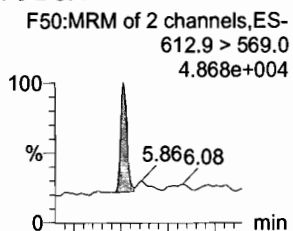
Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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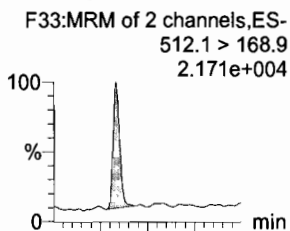
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

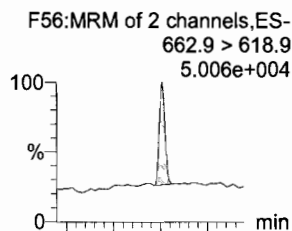
PFD_oA



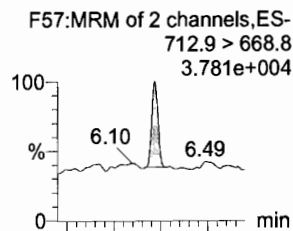
N-MeFOSA



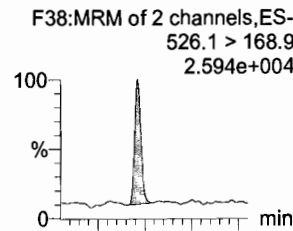
PFT_rDA



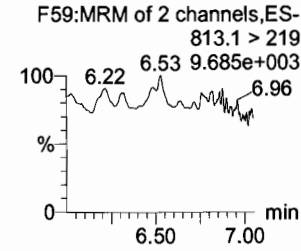
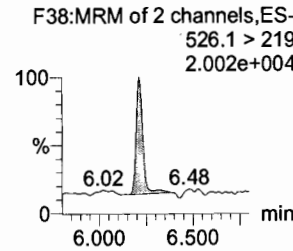
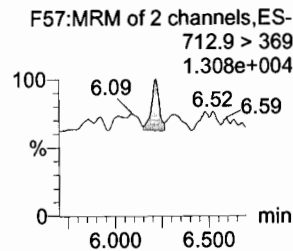
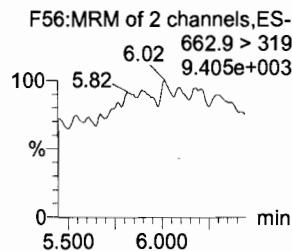
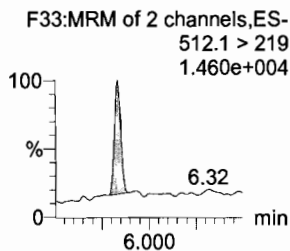
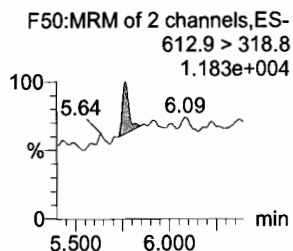
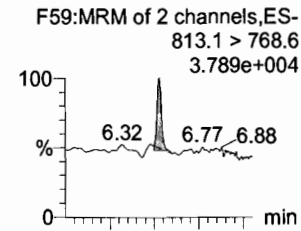
PFT_eDA



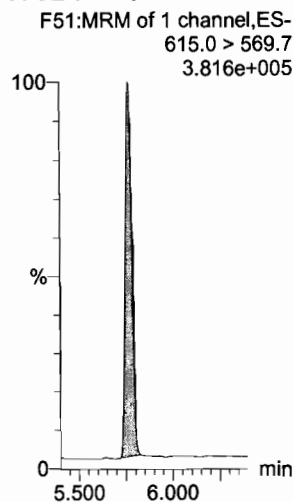
N-EtFOSA



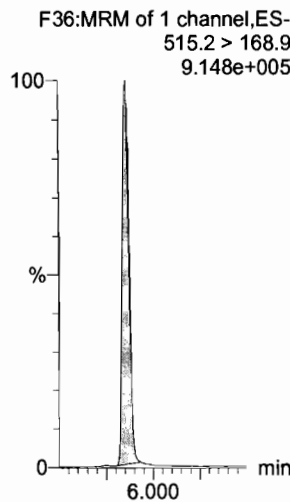
PFH_xDA



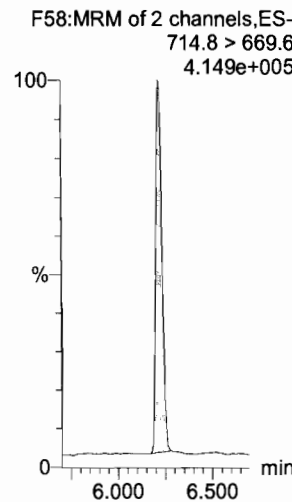
13C2-PFD_oA



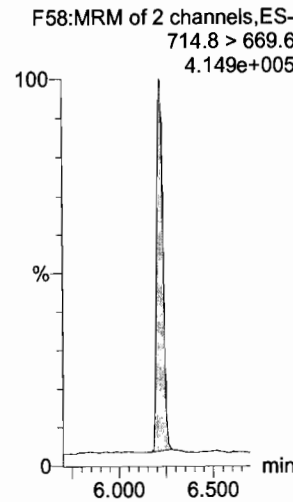
d3-N-MeFOSA



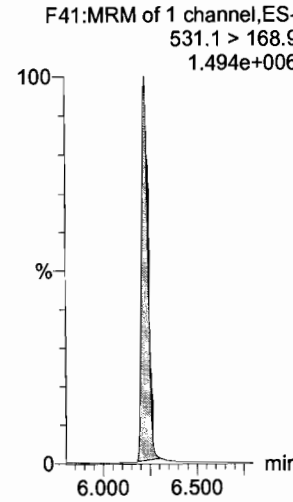
13C2-PFT_eDA



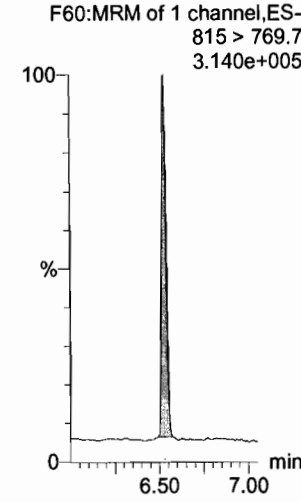
13C2-PFT_eDA



d5-N-ETFOSA



13C2-PFH_xDA



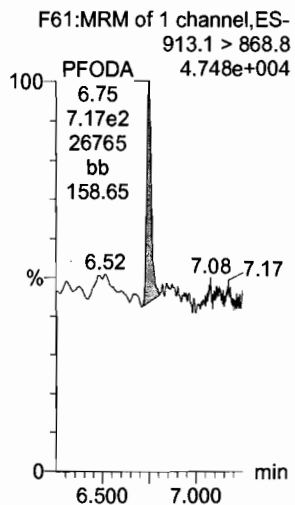
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

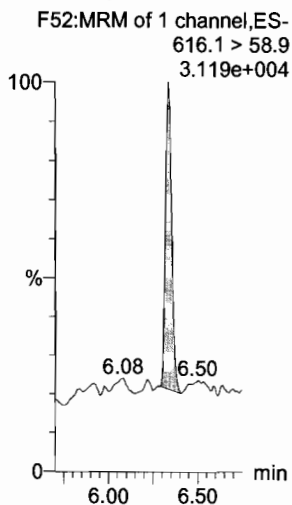
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Name: 171223M1_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

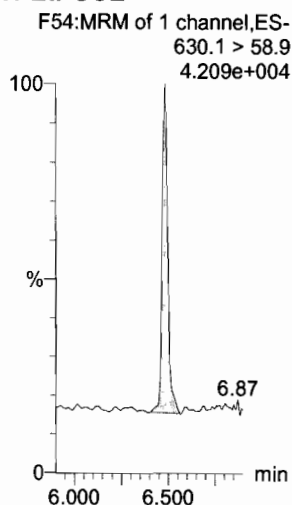
PFODA



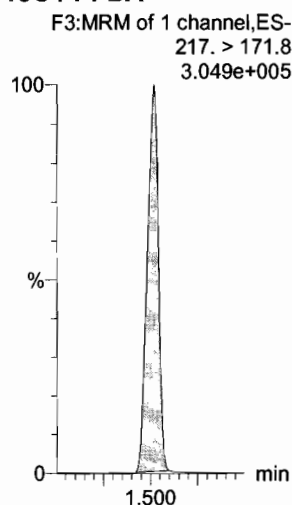
N-MeFOSE



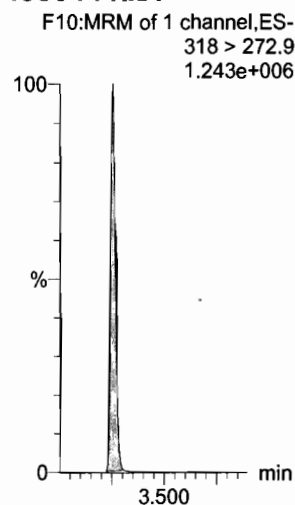
N-EtFOSE



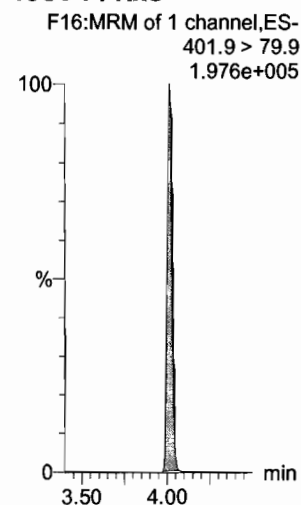
13C4-PFBA



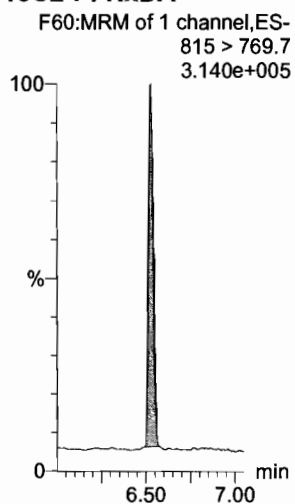
13C5-PFHxA



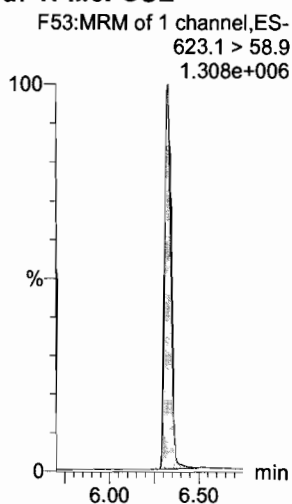
13C3-PFHxS



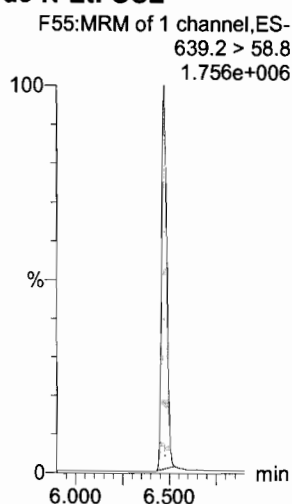
13C2-PFHxDA



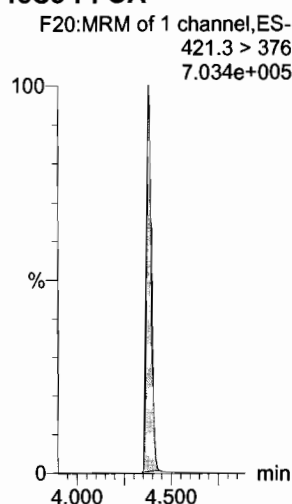
d7-N-MeFOSE



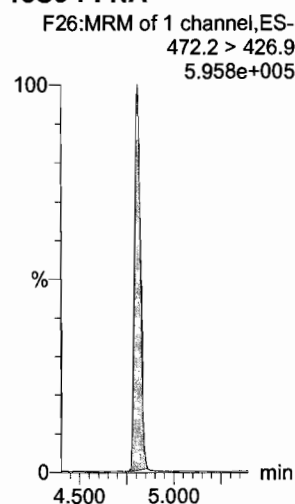
d9-N-EtFOSE



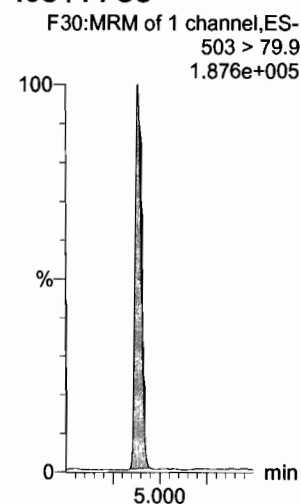
13C8-PFOA



13C9-PFNA



13C4-PFOS



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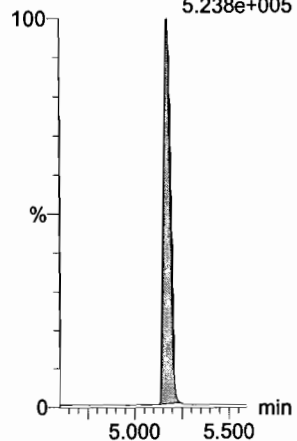
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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

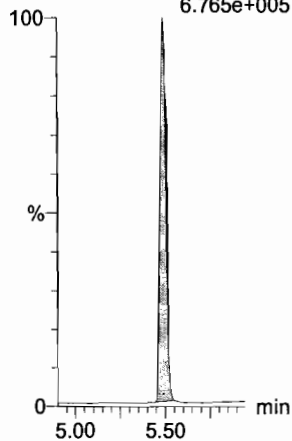
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
5.238e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
6.765e+005



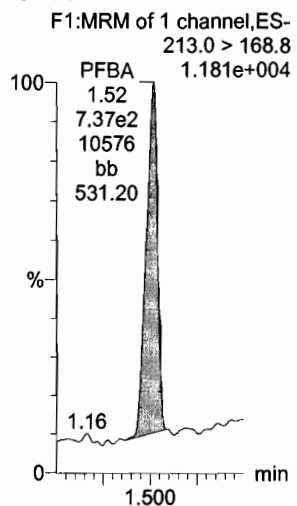
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

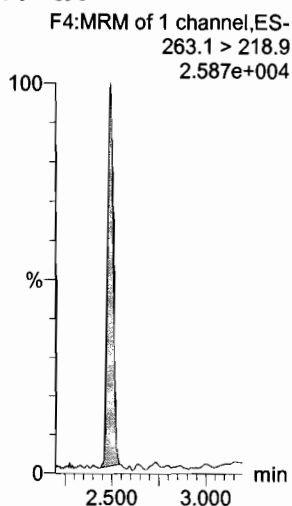
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Name: 171223M1_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

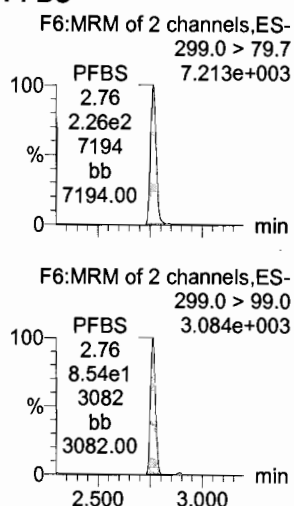
PFBA



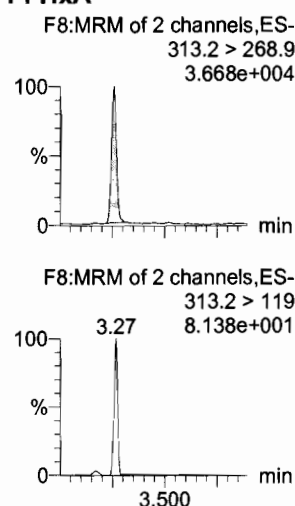
PFPeA



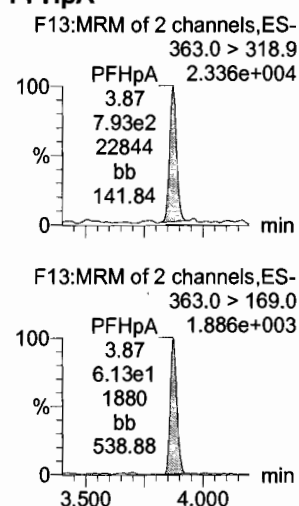
PFBS



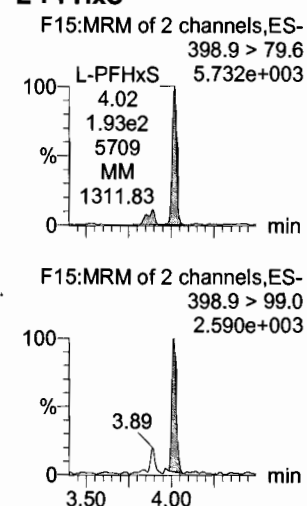
PFHxA



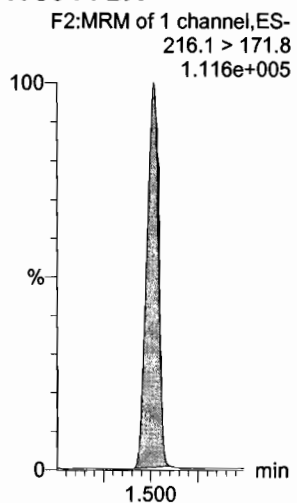
PFHpA



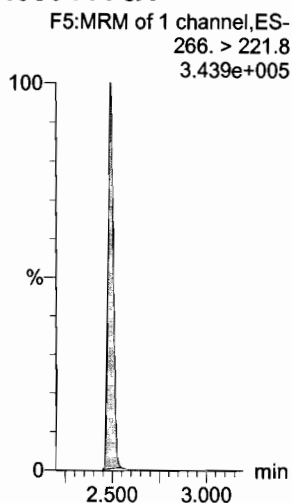
L-PFHxS



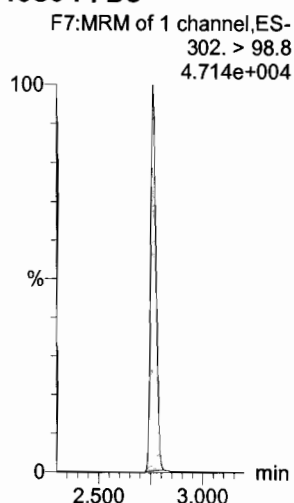
13C3-PFBA



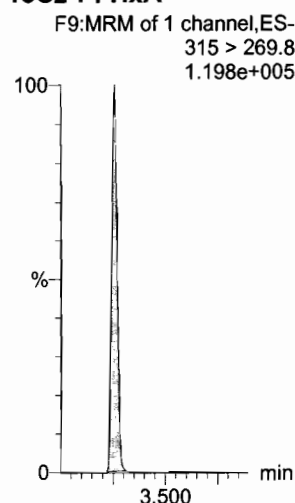
13C3-PFPeA



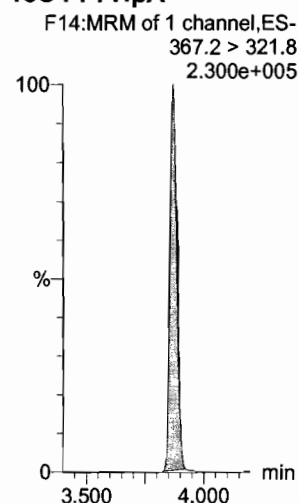
13C3-PFBS



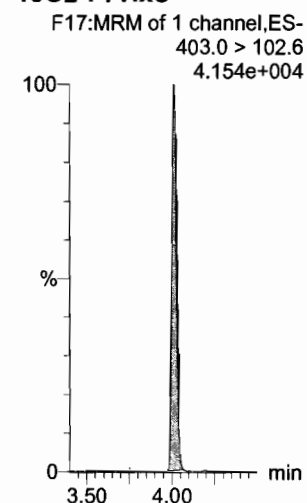
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

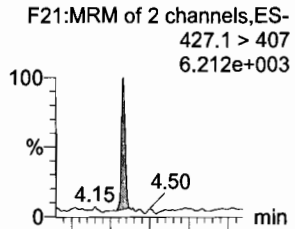


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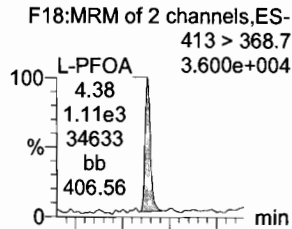
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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

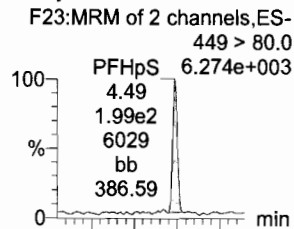
6:2 FTS



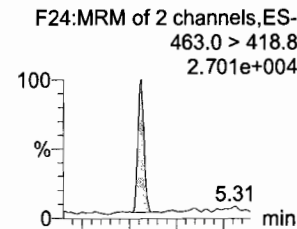
L-PFOA



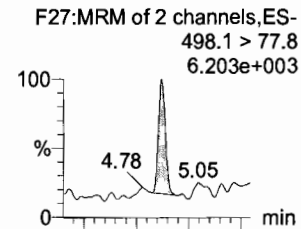
PFHpS



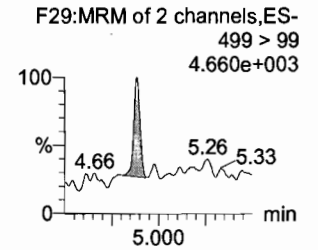
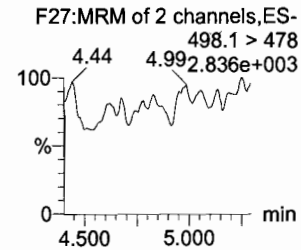
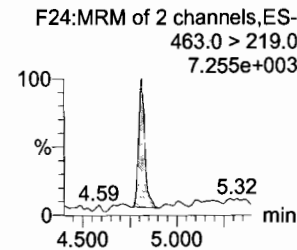
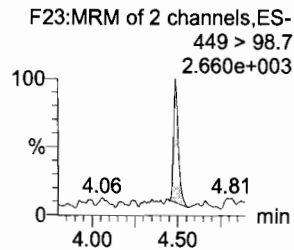
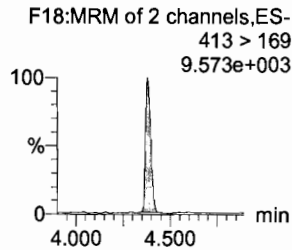
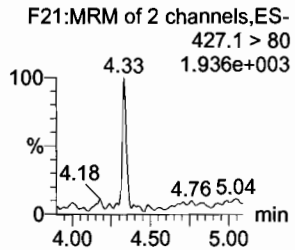
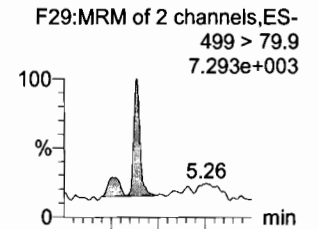
PFNA



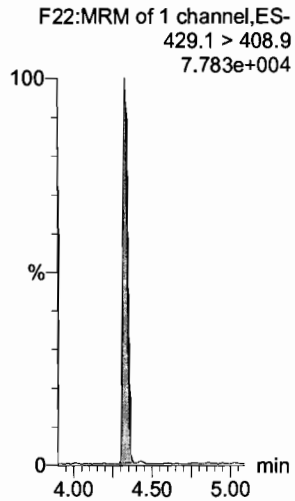
PFOSA



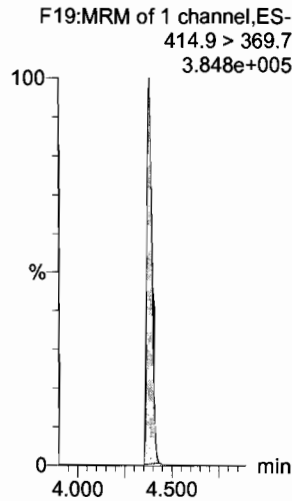
L-PFOS



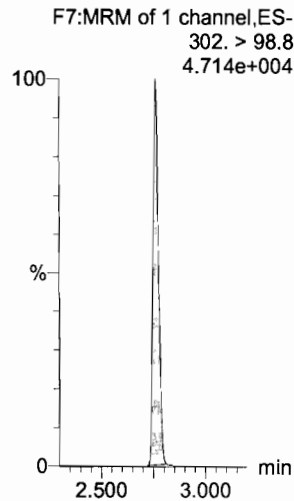
13C2-6:2 FTS



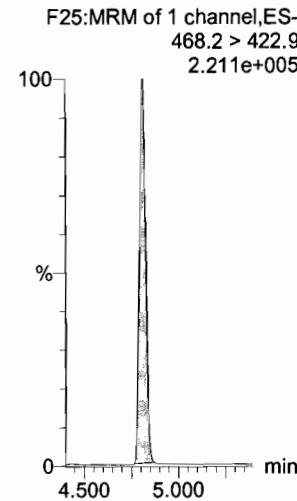
13C2-PFOA



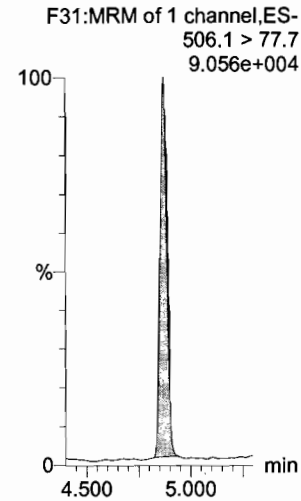
13C3-PFBS



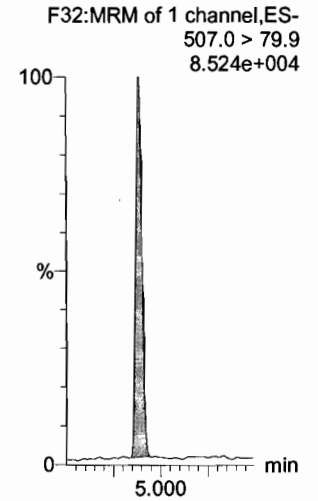
13C5-PFNA



13C8-PFOSA



13C8-PFOS



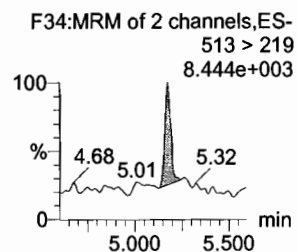
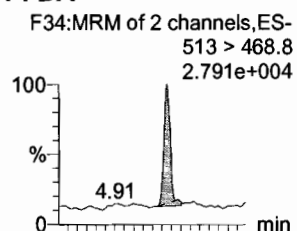
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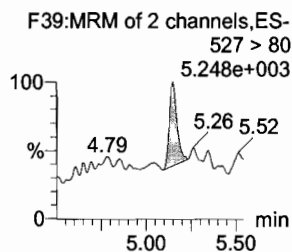
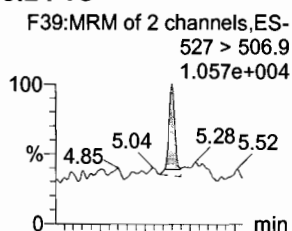
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Name: 171223M1_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

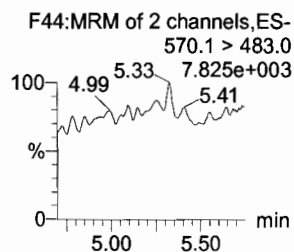
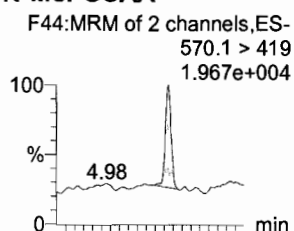
PFDA



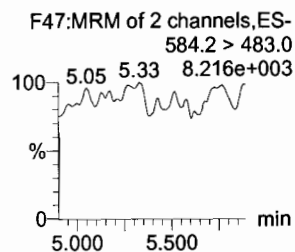
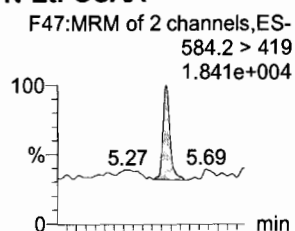
8:2 FTS



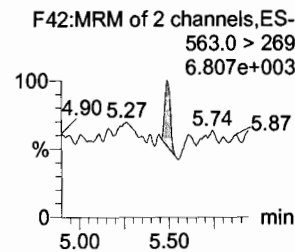
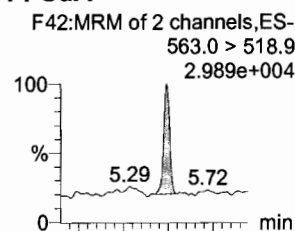
N-MeFOSAA



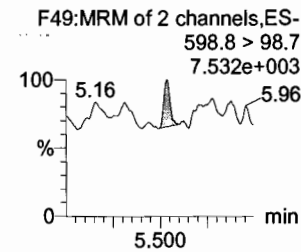
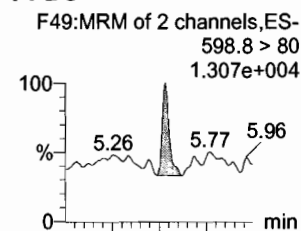
N-EtFOSAA



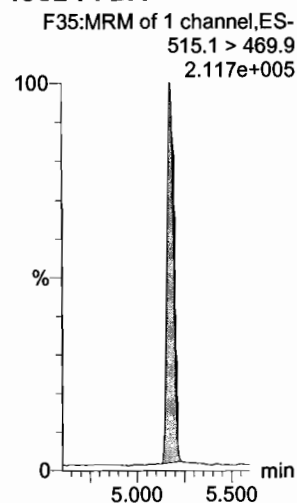
PFUdA



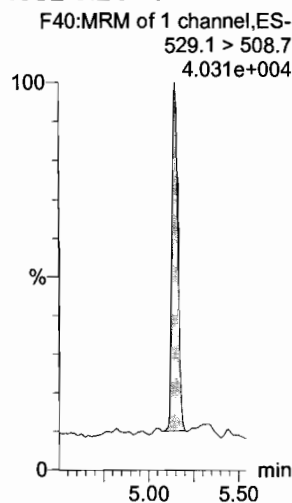
PFDS



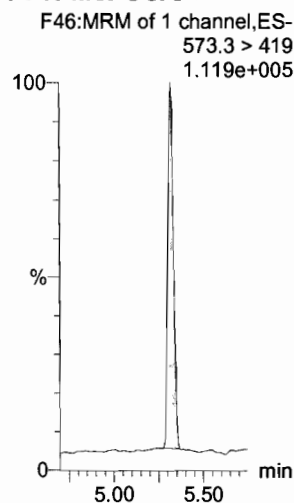
13C2-PFDA



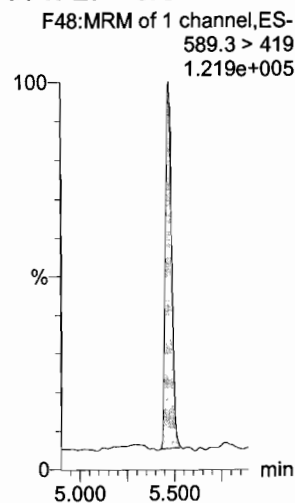
13C2-8:2 FTS



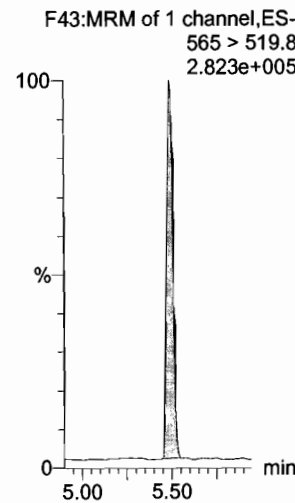
d3-N-MeFOSAA



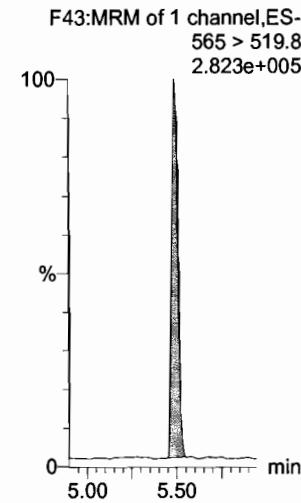
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



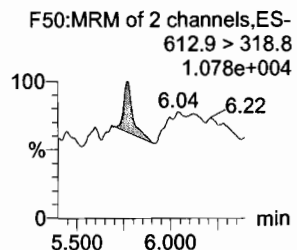
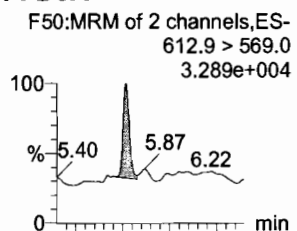
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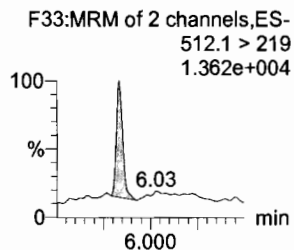
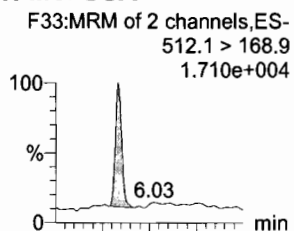
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Name: 171223M1_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

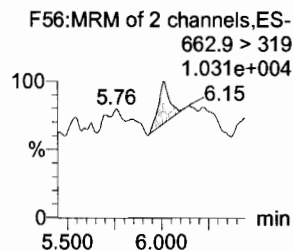
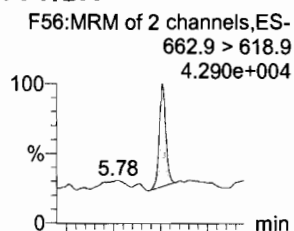
PFD_oA



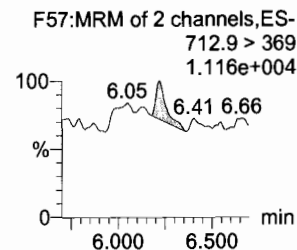
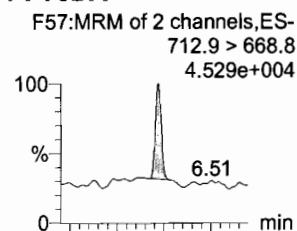
N-MeFOSA



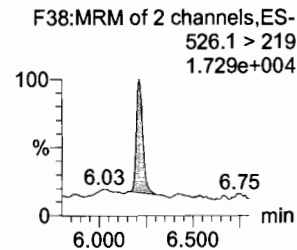
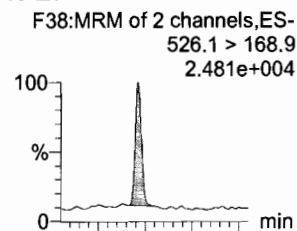
PFT_rDA



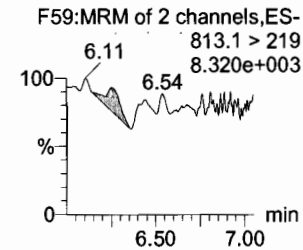
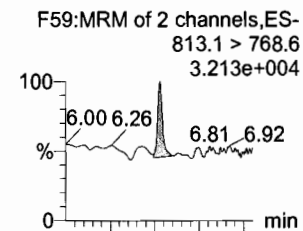
PFT_eDA



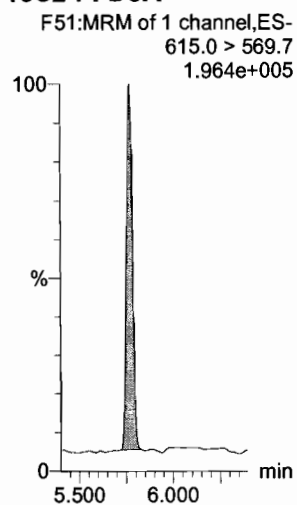
N-EtFOSA



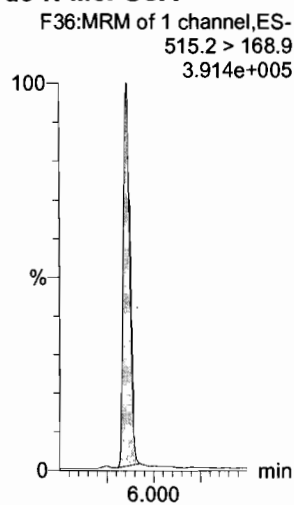
PFH_xDA



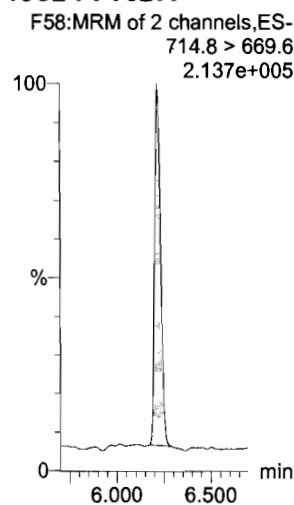
13C₂-PFD_oA



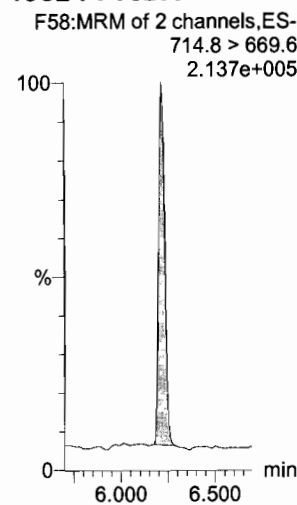
d3-N-MeFOSA



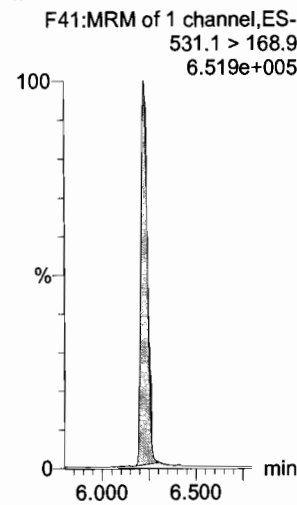
13C₂-PFT_eDA



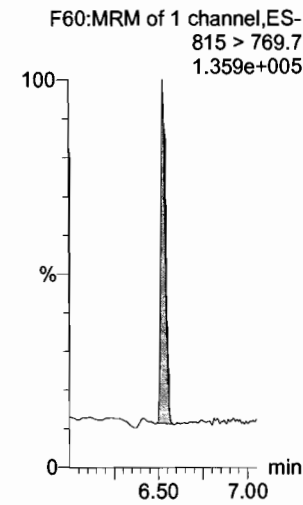
13C₂-PFT_rDA



d5-N-ETFOSA



13C₂-PFH_xDA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

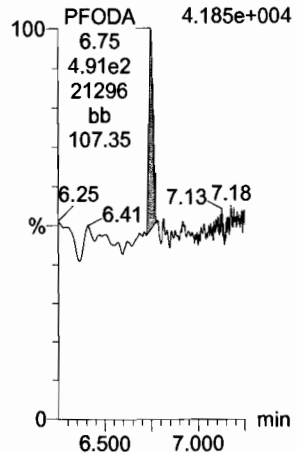
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

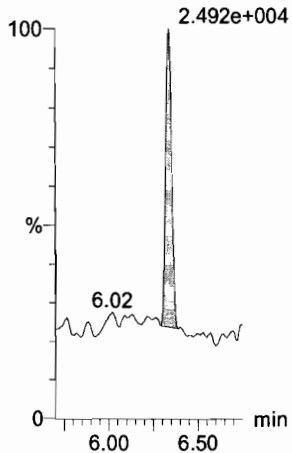
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
4.185e+004



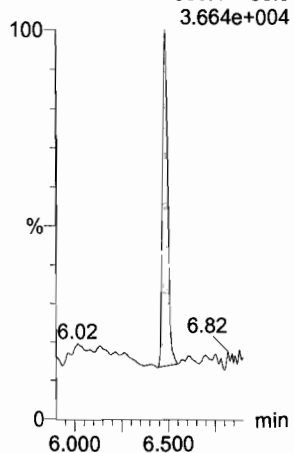
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
2.492e+004



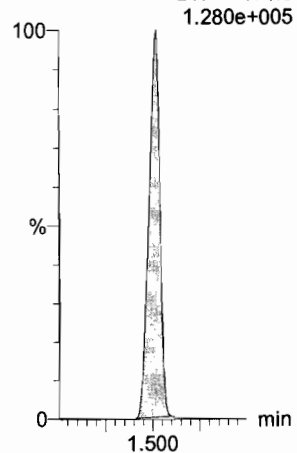
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
3.664e+004



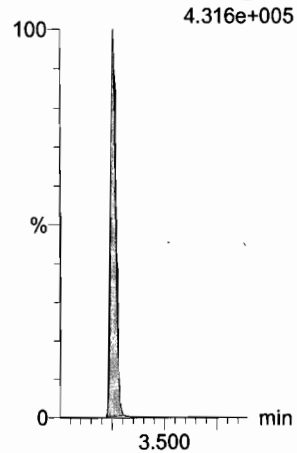
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.280e+005



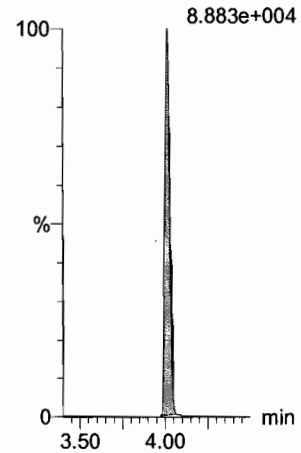
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.316e+005



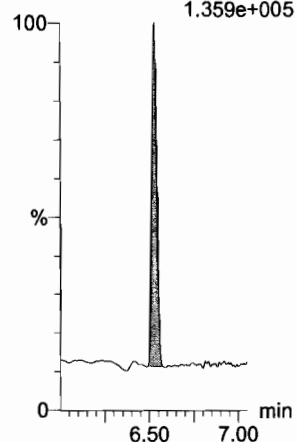
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
8.883e+004



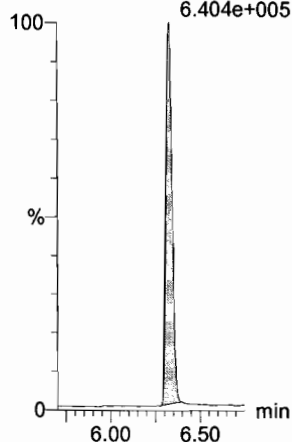
13C2-PFHxD

F60:MRM of 1 channel,ES-
815 > 769.7
1.359e+005



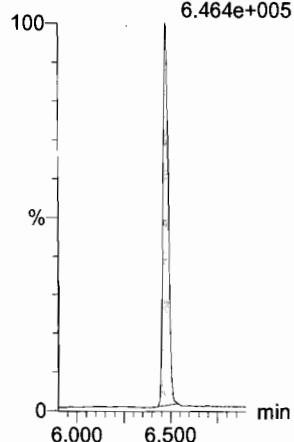
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
6.404e+005



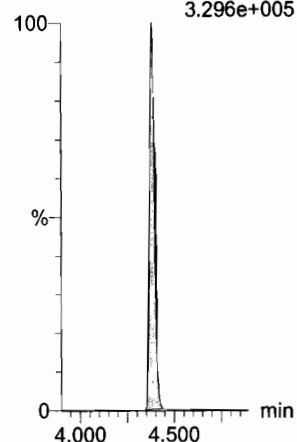
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
6.464e+005



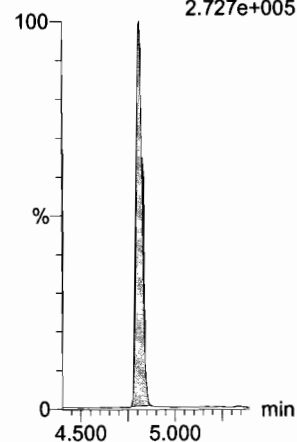
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.296e+005



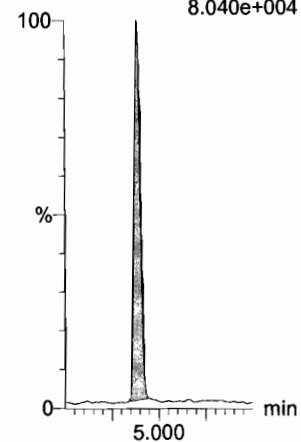
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.727e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
8.040e+004



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

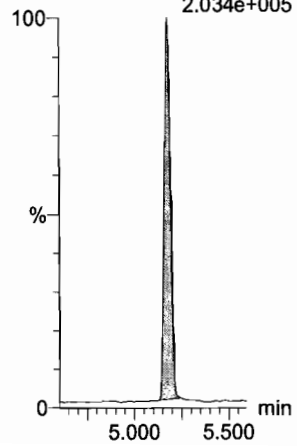
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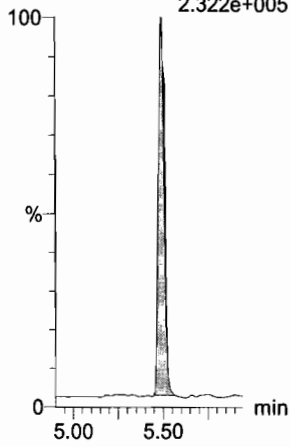
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.034e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.322e+005

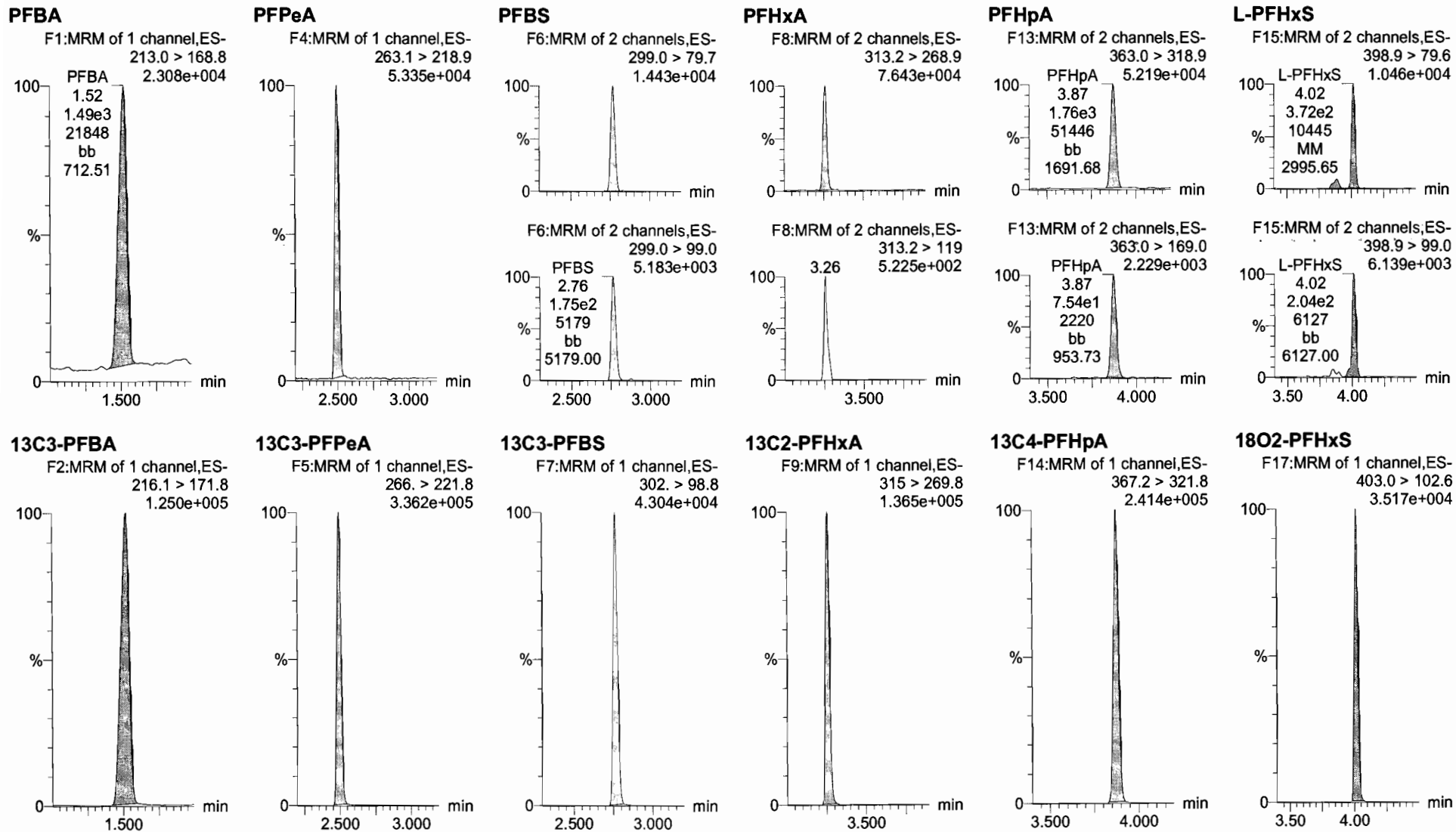


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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_5, Date: 23-Dec-2017, Time: 13:41:47, ID: ST171223M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205



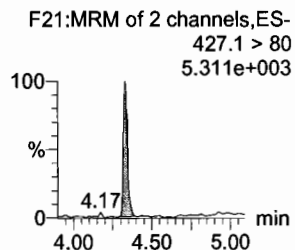
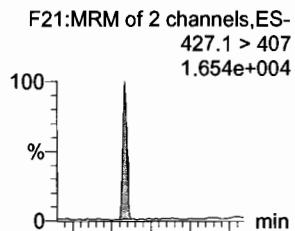
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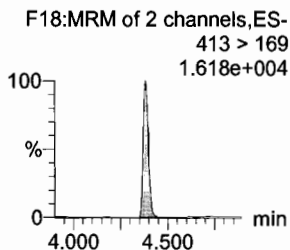
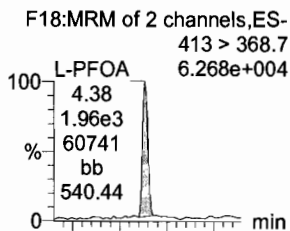
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Name: 171223M1_5, Date: 23-Dec-2017, Time: 13:41:47, ID: ST171223M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

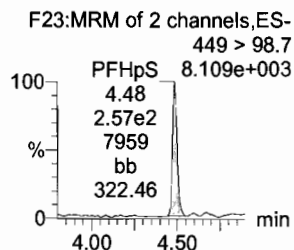
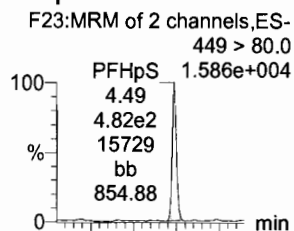
6:2 FTS



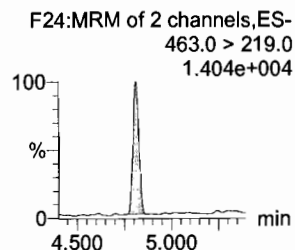
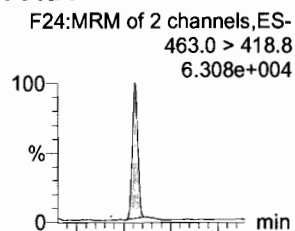
L-PFOA



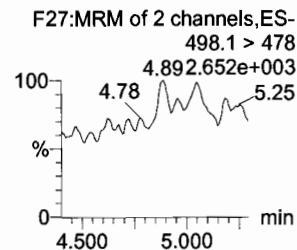
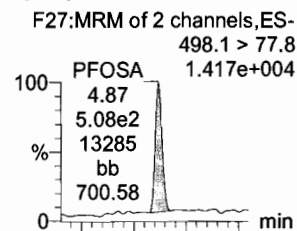
PFHpS



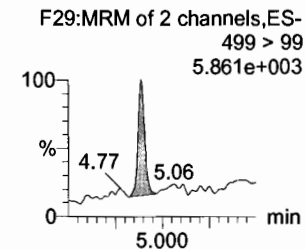
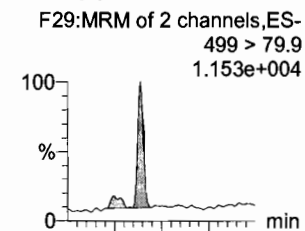
PFNA



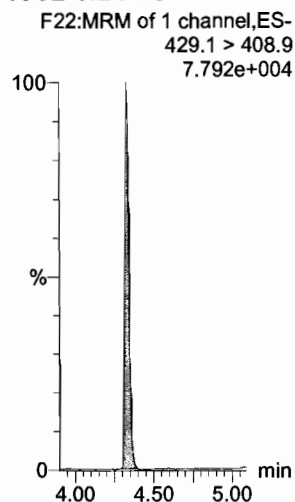
PFOSA



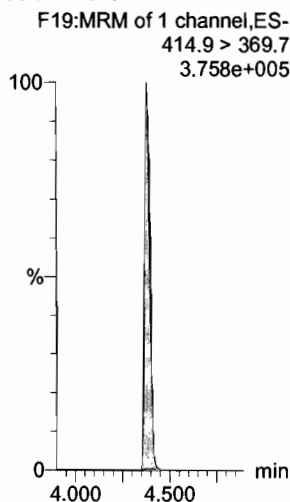
L-PFOS



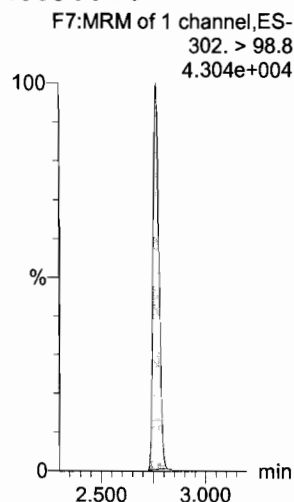
13C2-6:2 FTS



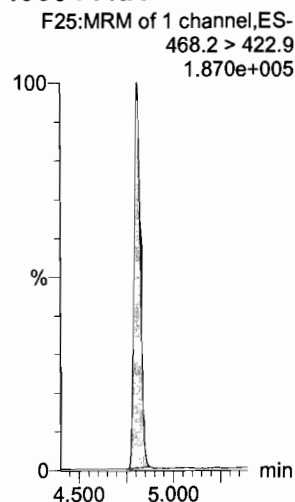
13C2-PFOA



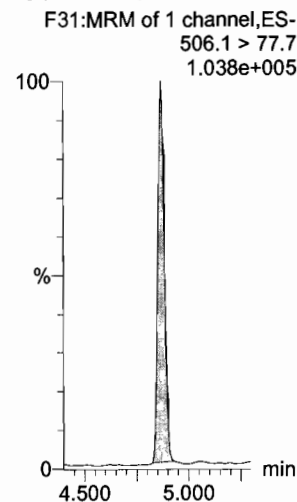
13C3-PFBS



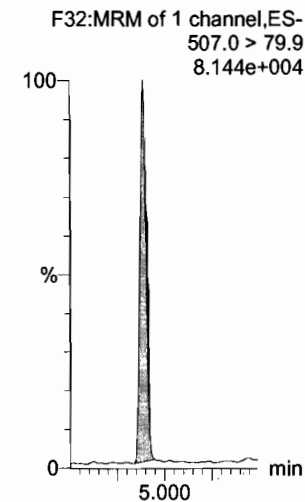
13C5-PFNA



13C8-PFOSA



13C8-PFOS

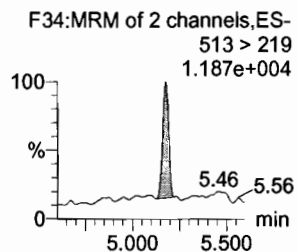
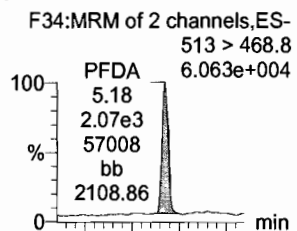


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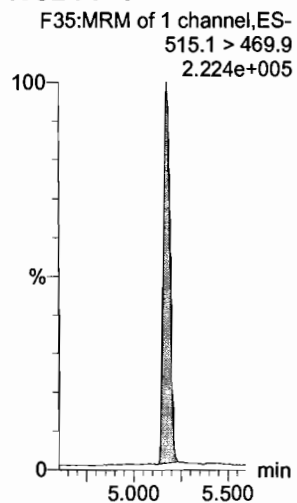
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Name: 171223M1_5, Date: 23-Dec-2017, Time: 13:41:47, ID: ST171223M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

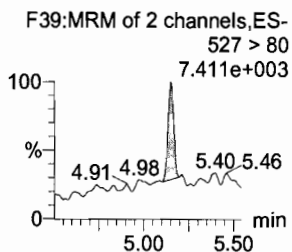
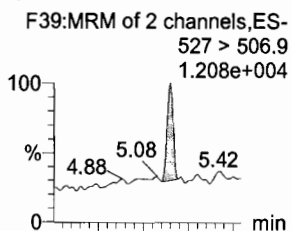
PFDA



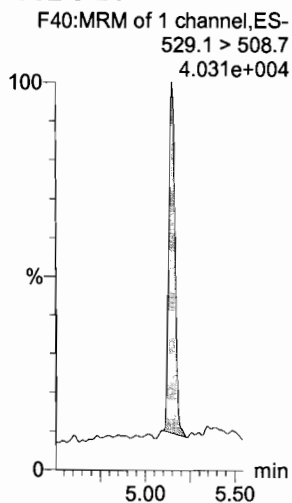
13C2-PFDA



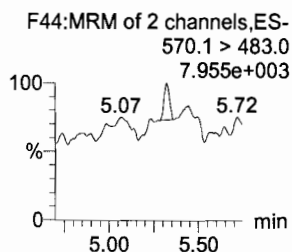
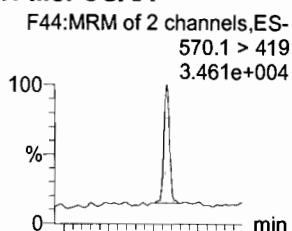
8:2 FTS



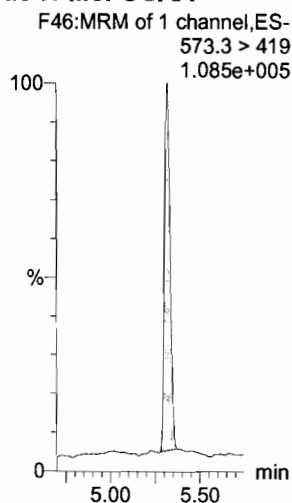
13C2-8:2 FTS



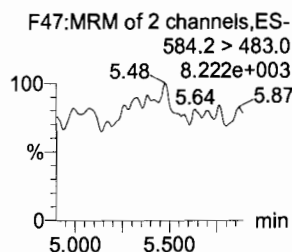
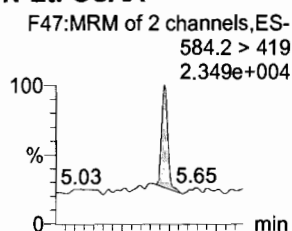
N-MeFOSAA



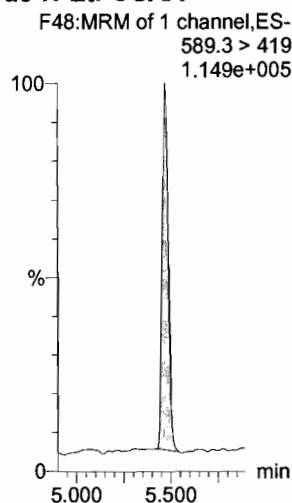
d3-N-MeFOSAA



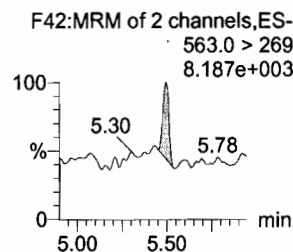
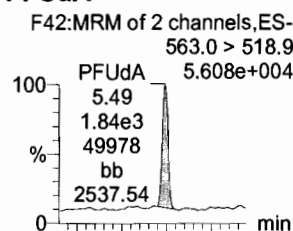
N-EtFOSAA



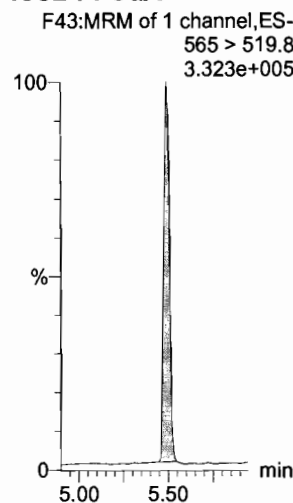
d5-N-EtFOSAA



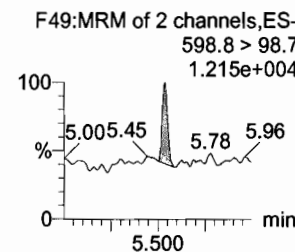
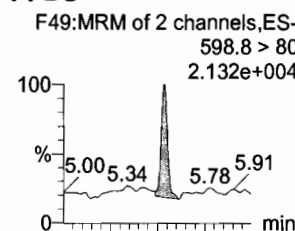
PFUdA



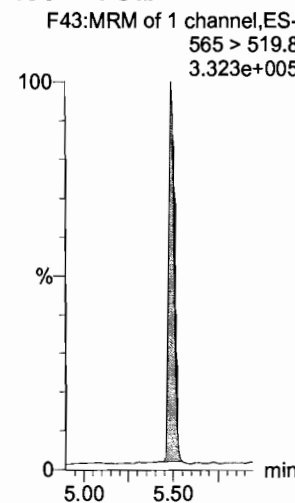
13C2-PFUdA



PFDS



13C2-PFUdA



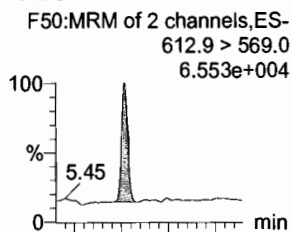
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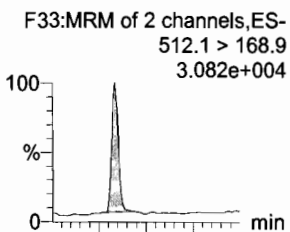
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Name: 171223M1_5, Date: 23-Dec-2017, Time: 13:41:47, ID: ST171223M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

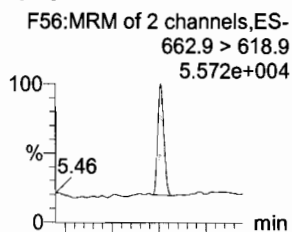
PFD_oA



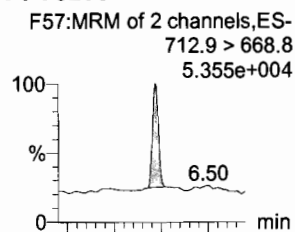
N-MeFOSA



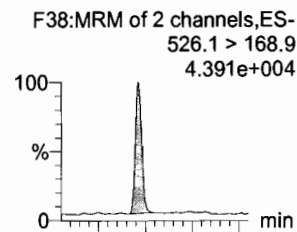
PFT_rDA



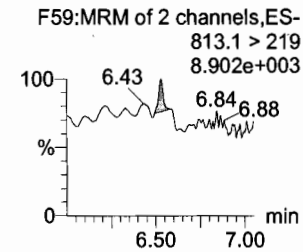
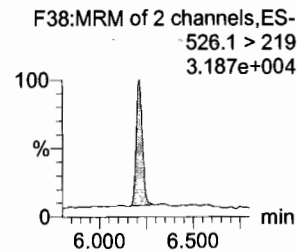
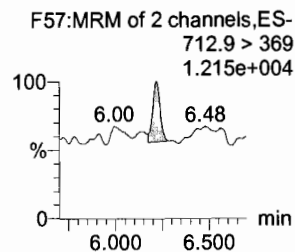
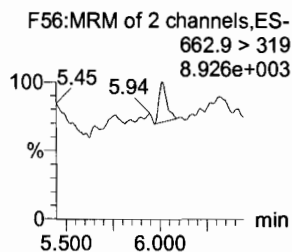
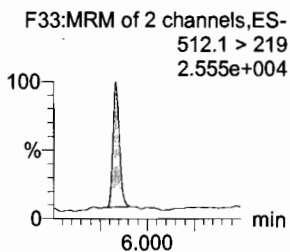
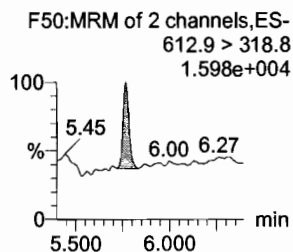
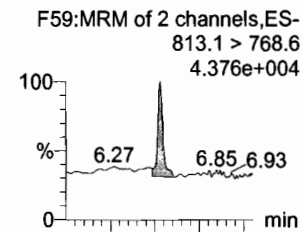
PFT_eDA



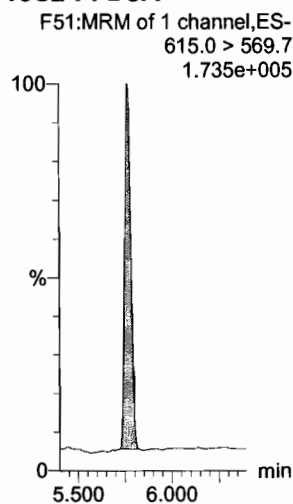
N-EtFOSA



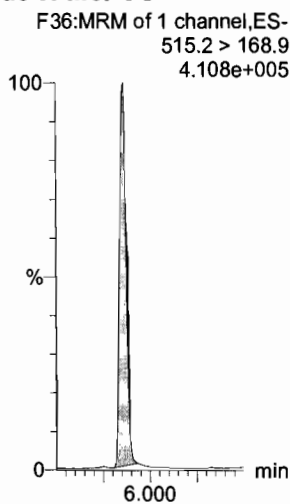
PFH_xDA



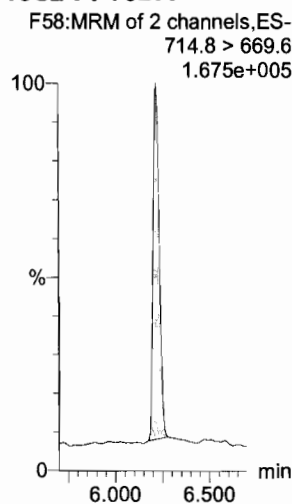
13C2-PFD_oA



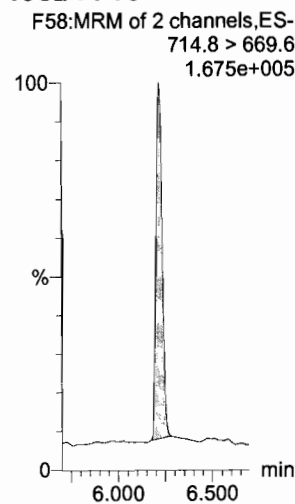
d3-N-MeFOSA



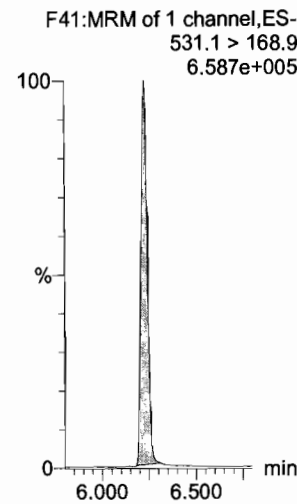
13C2-PFT_eDA



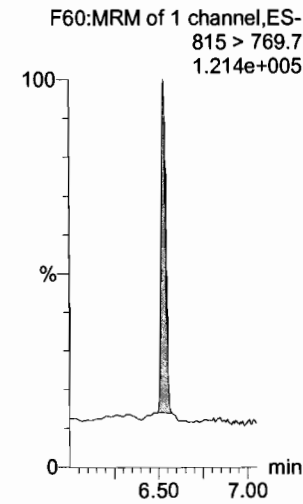
13C2-PFT_rDA



d5-N-ETFOSA



13C2-PFH_xDA



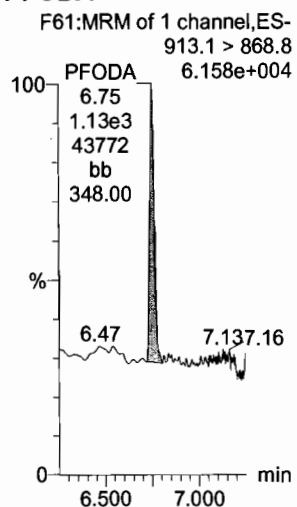
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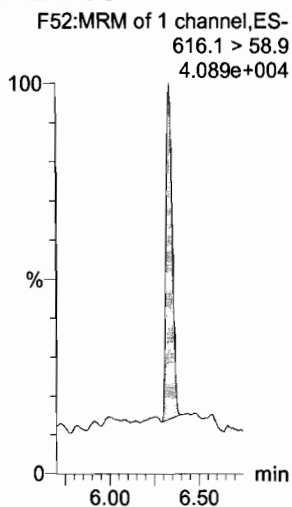
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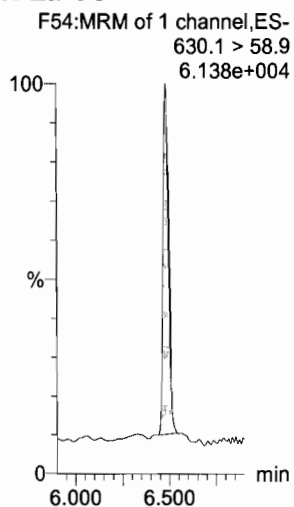
PFODA



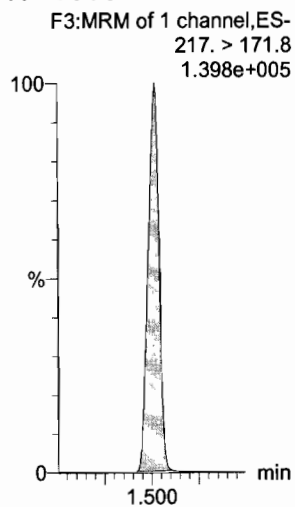
N-MeFOSE



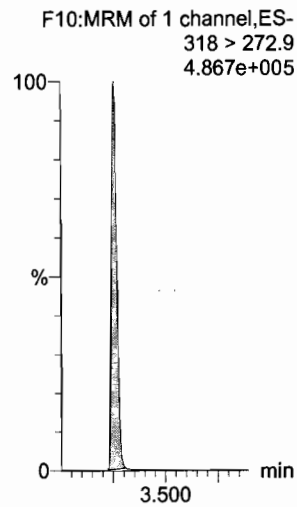
N-EtFOSE



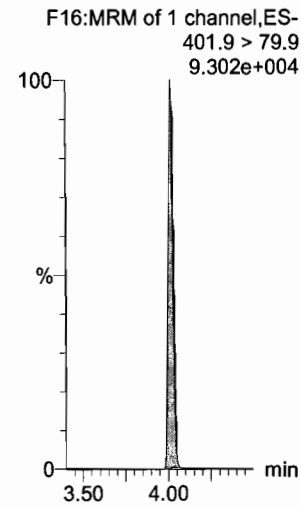
13C4-PFBA



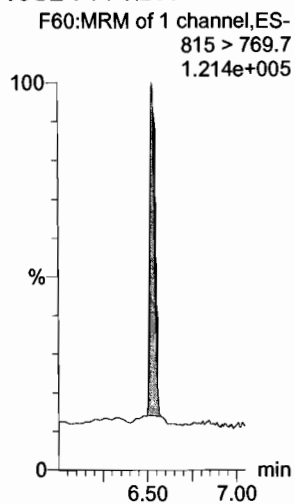
13C5-PFHxA



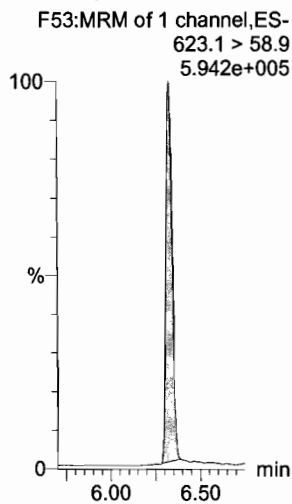
13C3-PFHxS



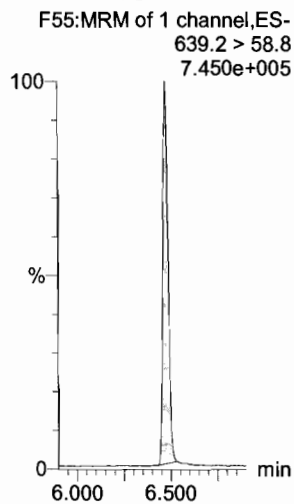
13C2-PFHxDA



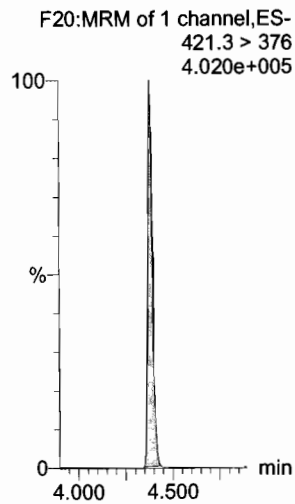
d7-N-MeFOSE



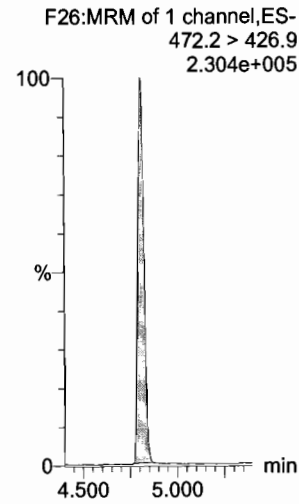
d9-N-EtFOSE



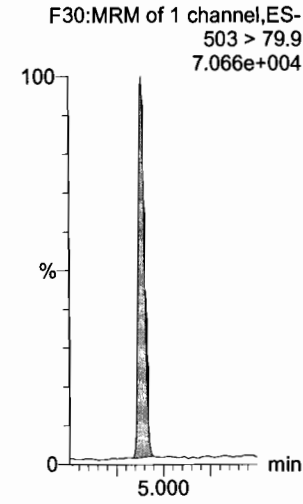
13C8-PFOA



13C9-PFNA



13C4-PFOS



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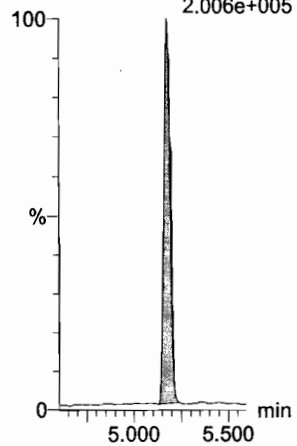
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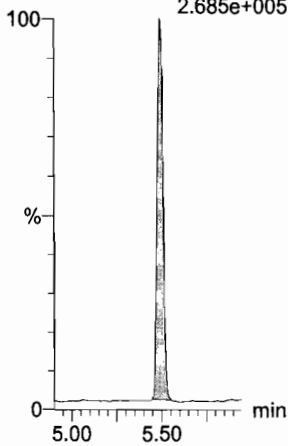
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.006e+005



13C7-PFUdA

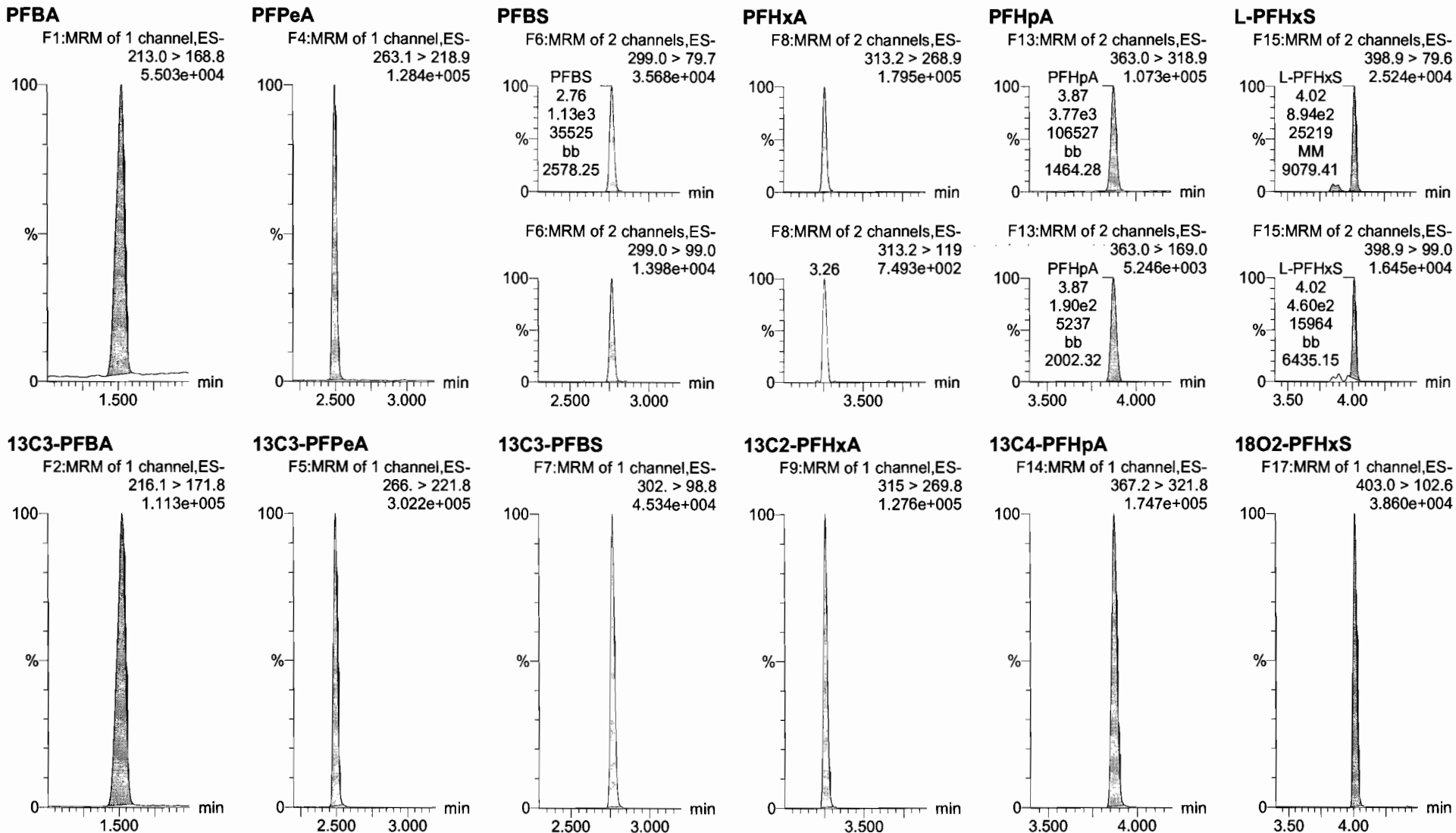
F45:MRM of 1 channel,ES-
570.1 > 524.8
2.685e+005



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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time
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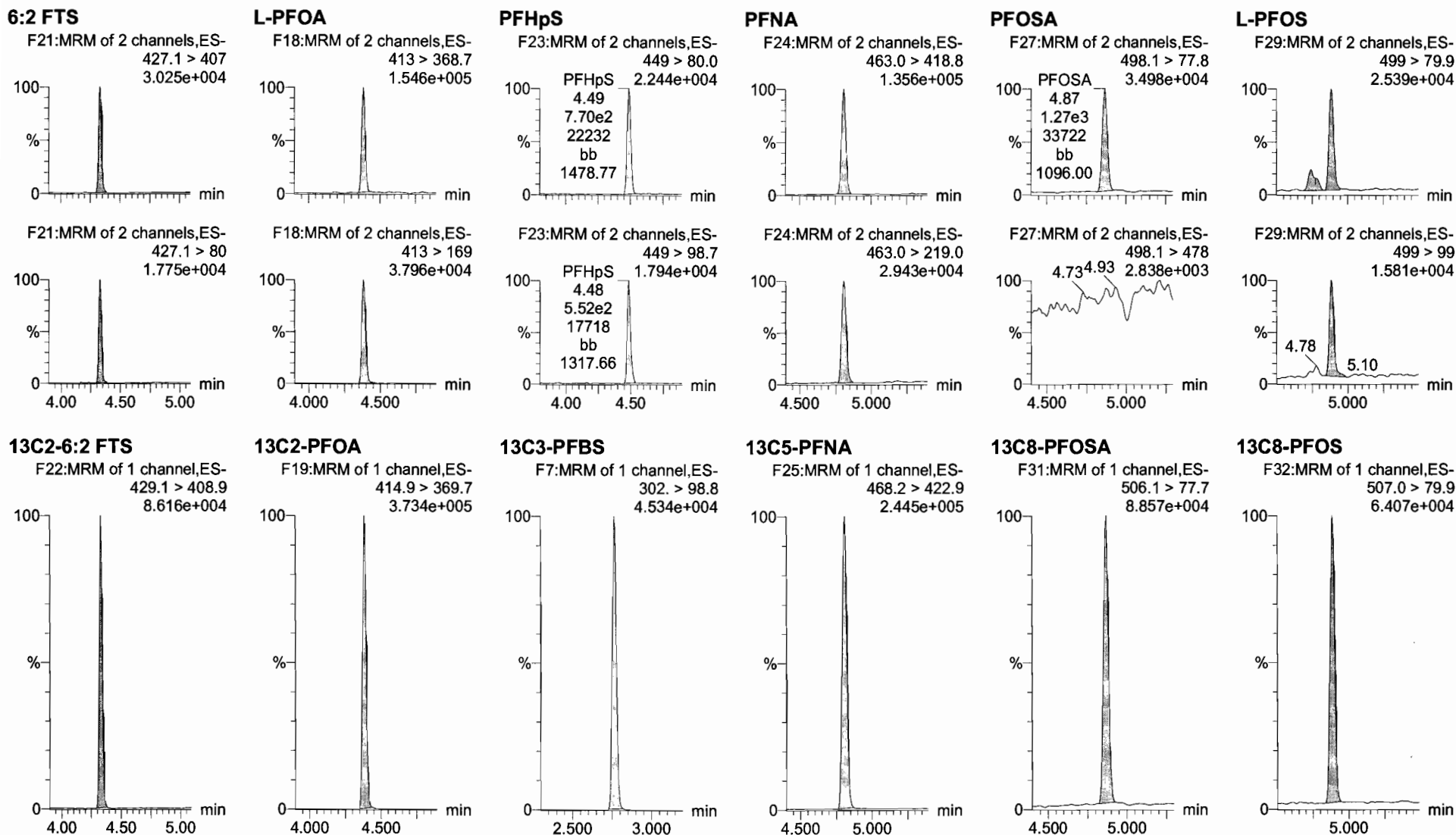


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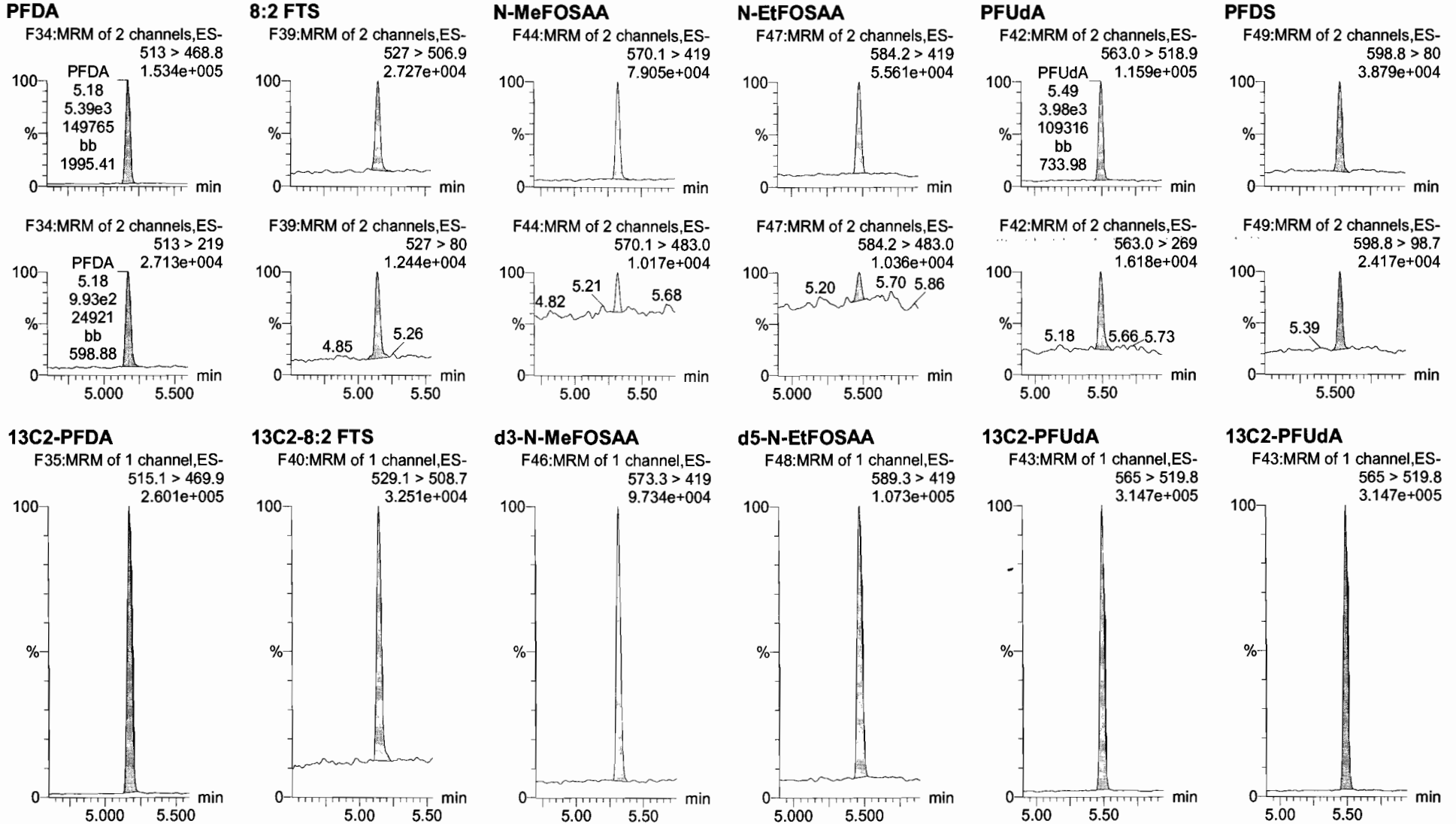
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time
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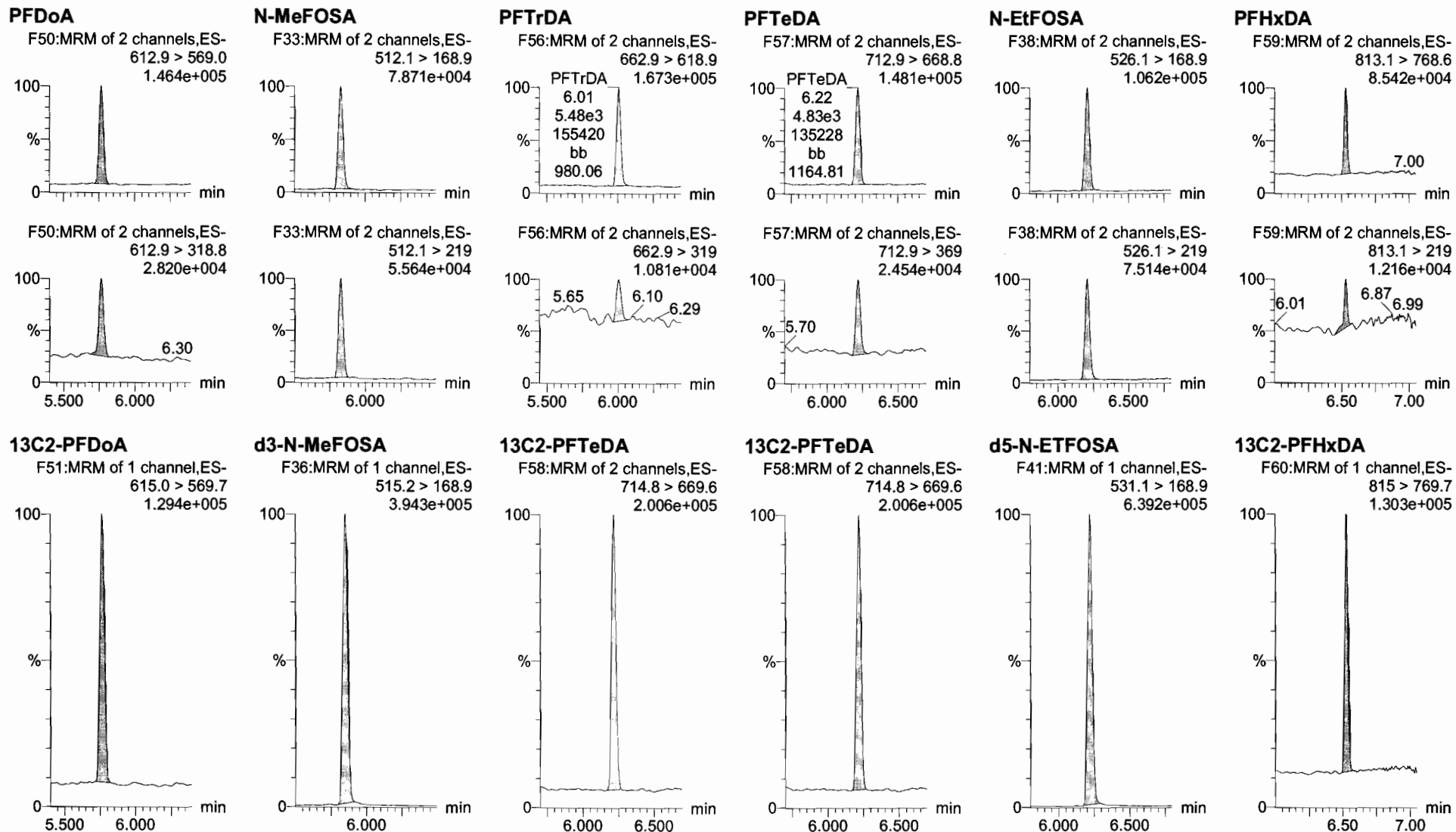
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

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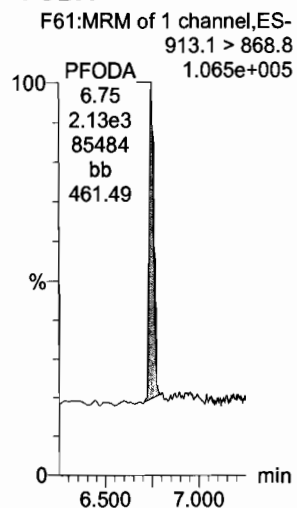
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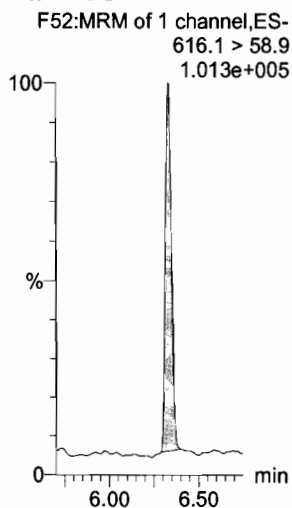
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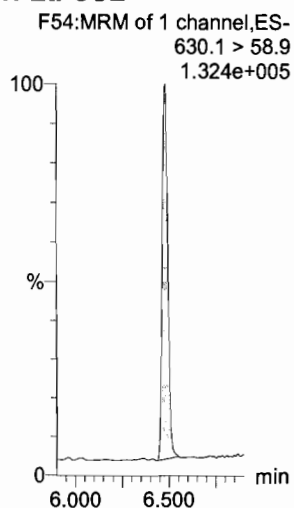
PFODA



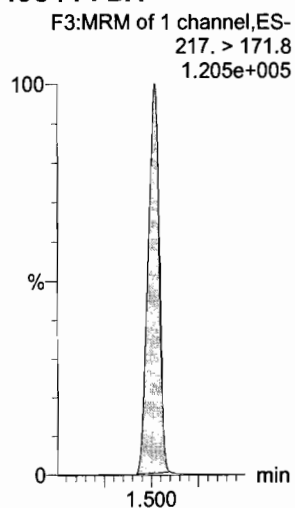
N-MeFOSE



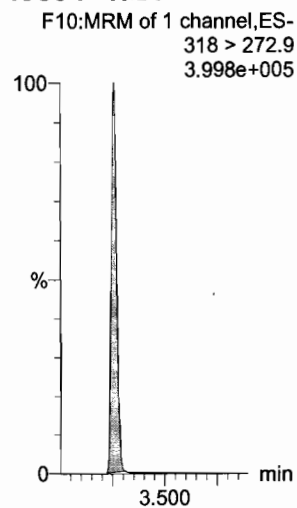
N-EtFOSE



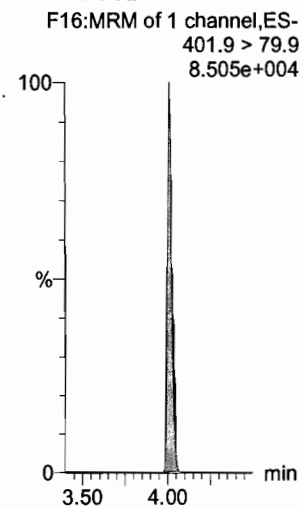
13C4-PFBA



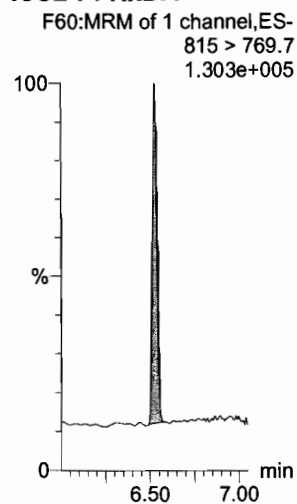
13C5-PFHxA



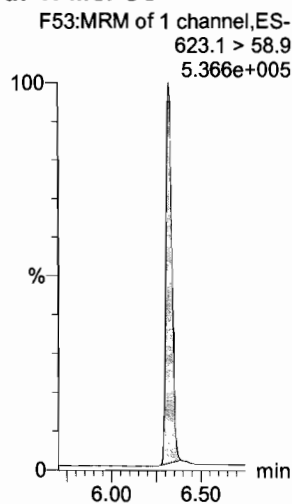
13C3-PFHxS



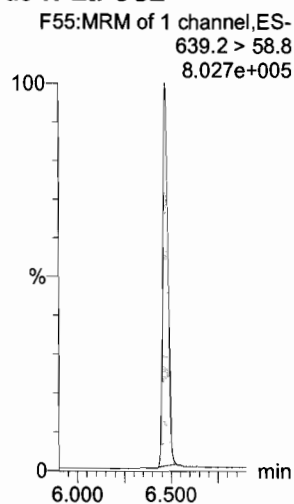
13C2-PFHxDa



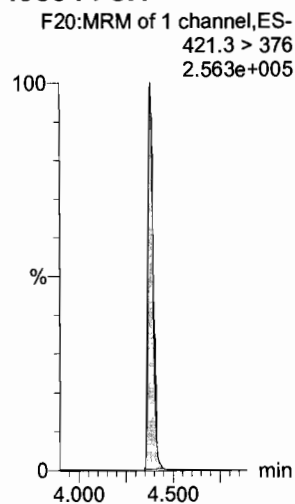
d7-N-MeFOSE



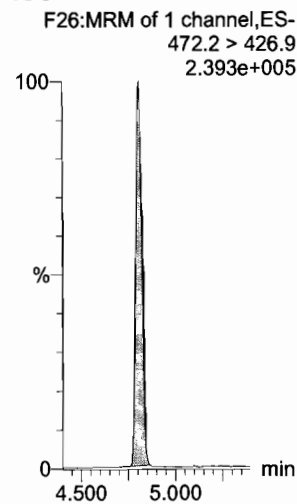
d9-N-EtFOSE



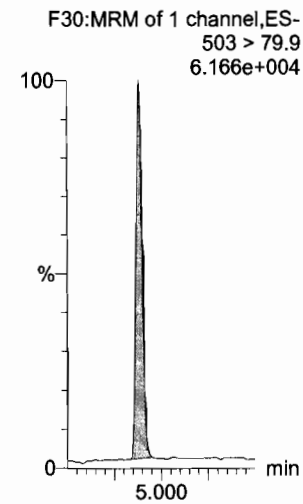
13C8-PFOA



13C9-PFNA



13C4-PFOS



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

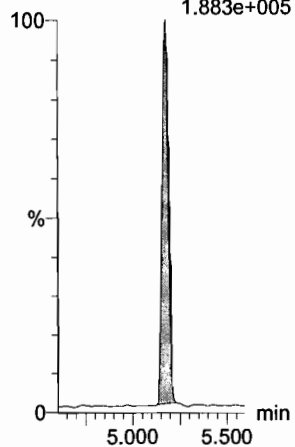
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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

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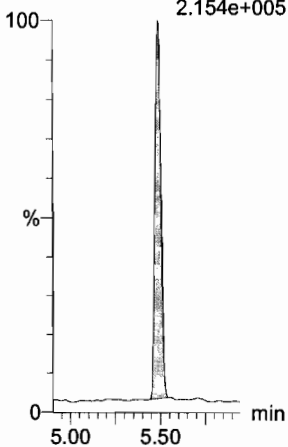
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.883e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.154e+005

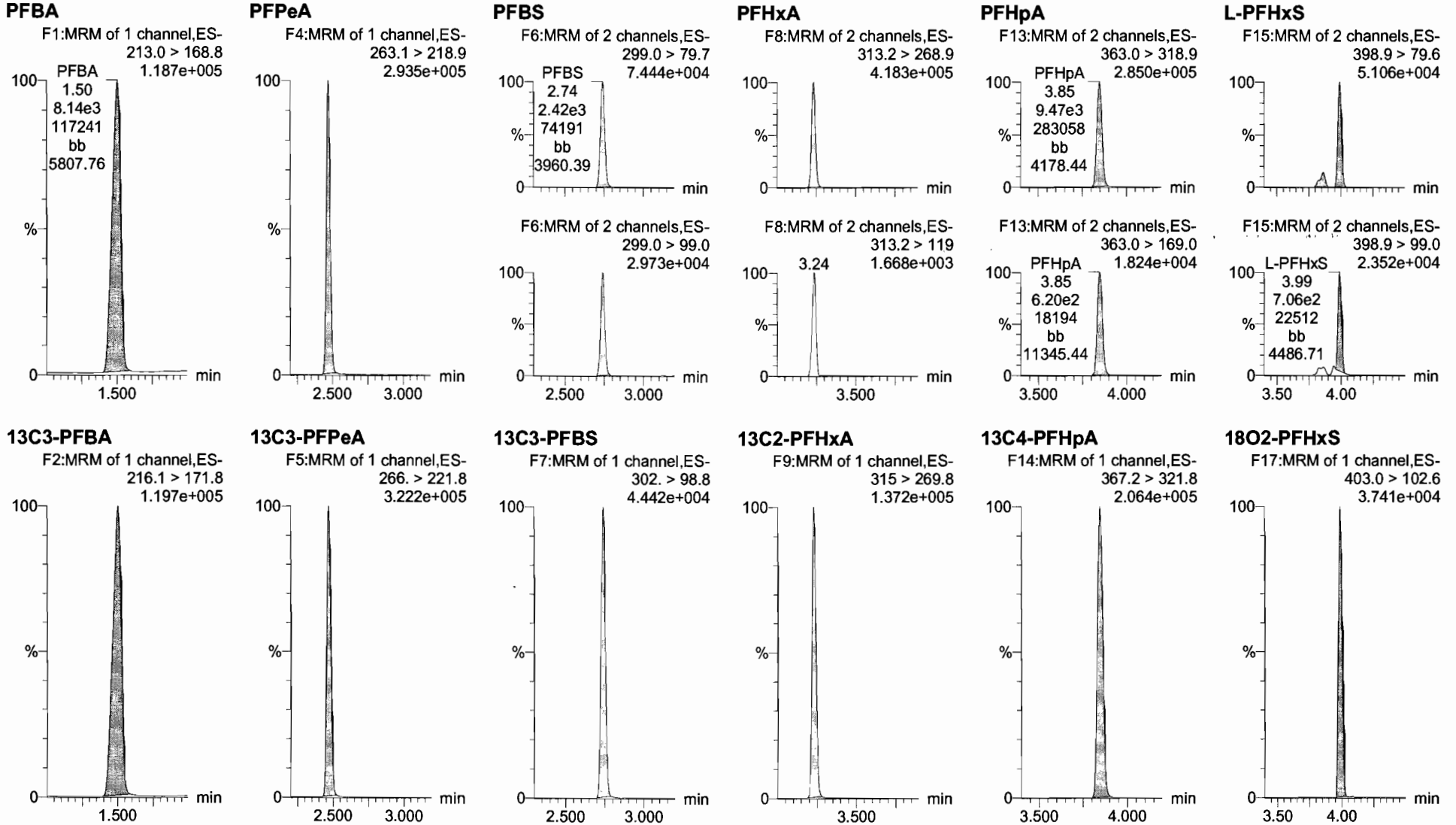


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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

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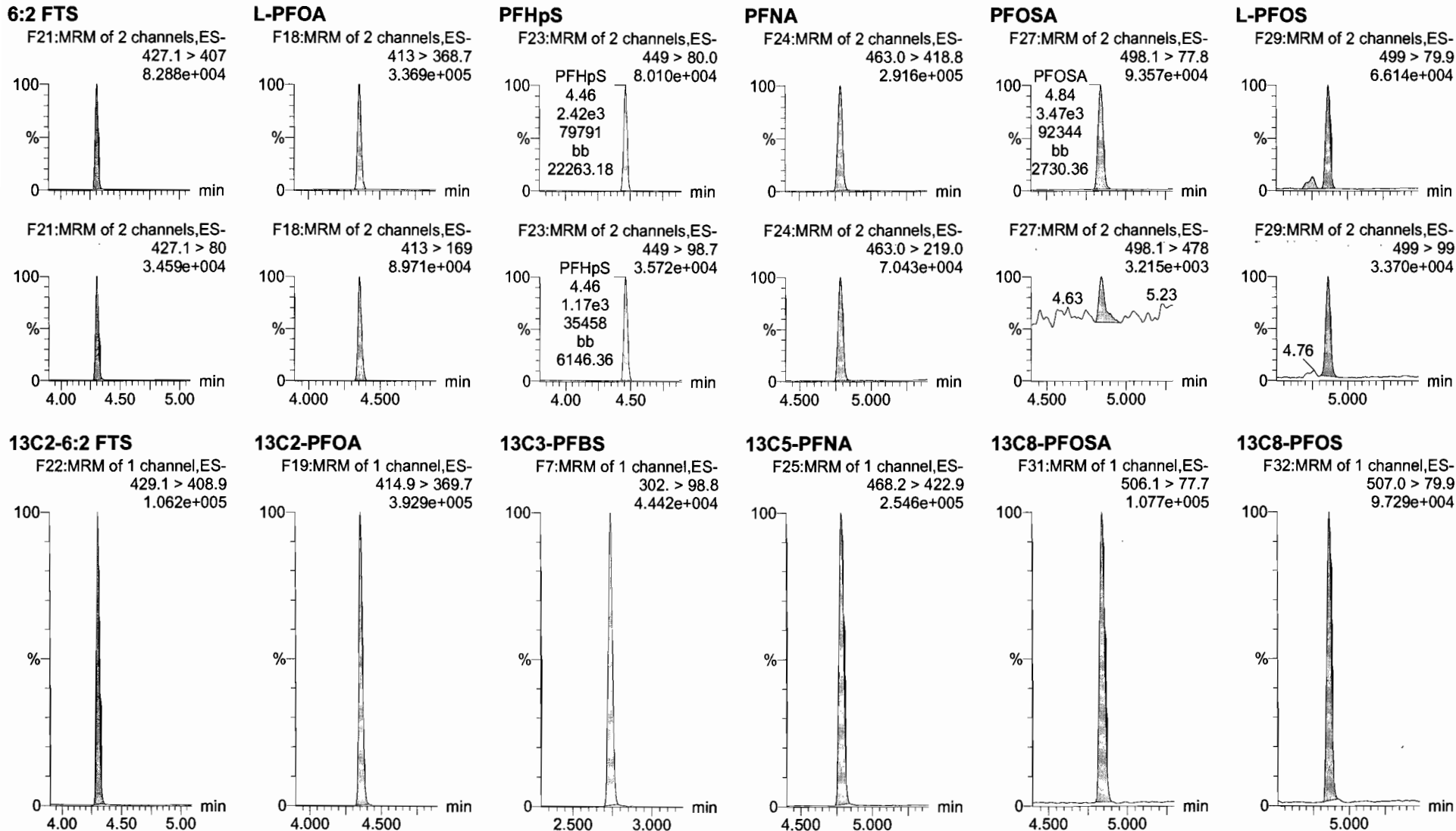


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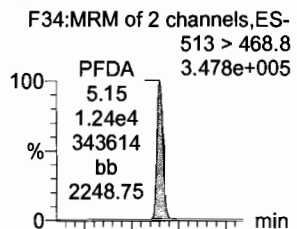


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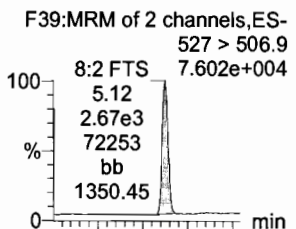
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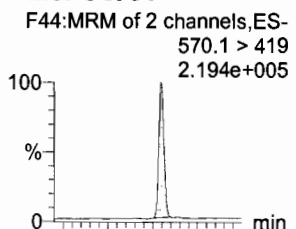
PFDA



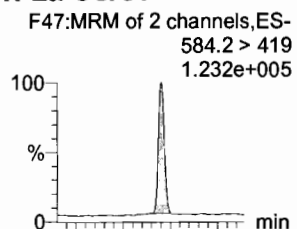
8:2 FTS



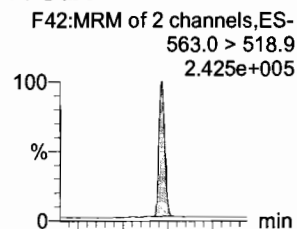
N-MeFOSAA



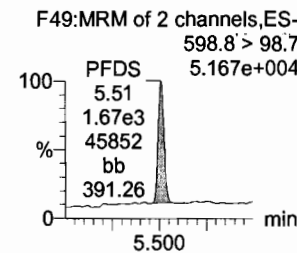
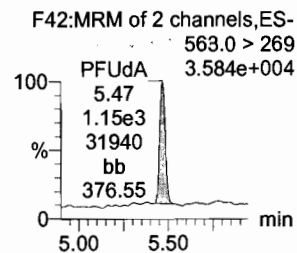
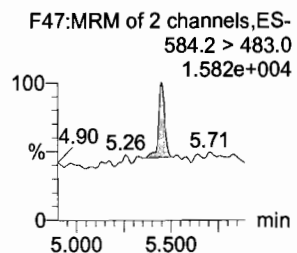
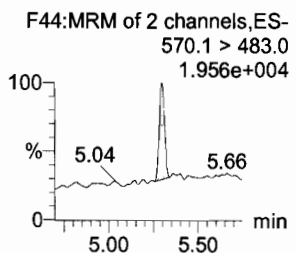
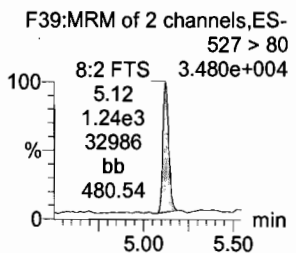
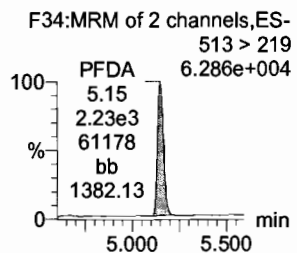
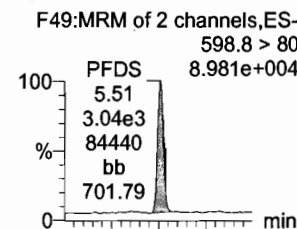
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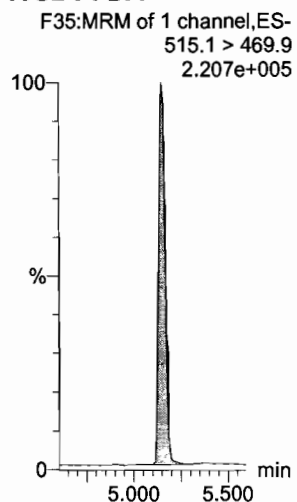
PFUdA



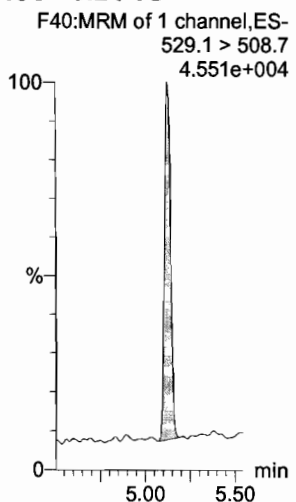
PFDS



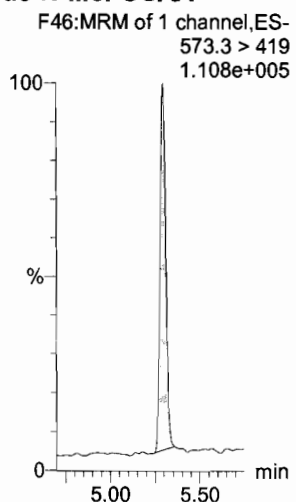
13C2-PFDA



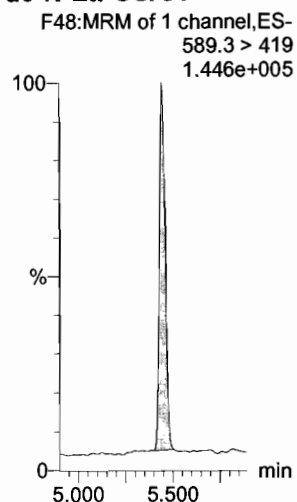
13C2-8:2 FTS



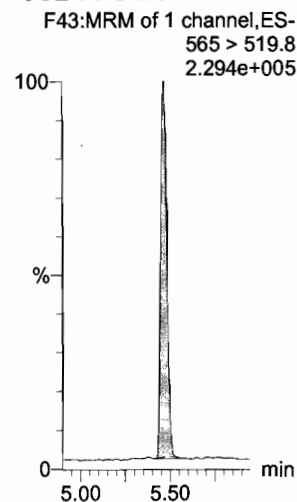
d3-N-MeFOSAA



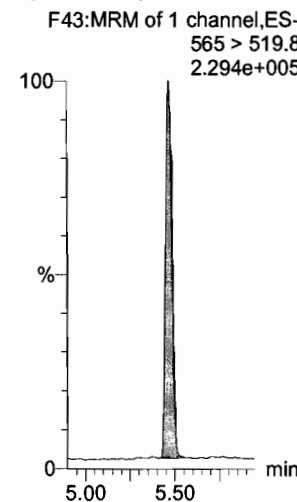
d5-N-EtFOSAA



13C2-PFUdA



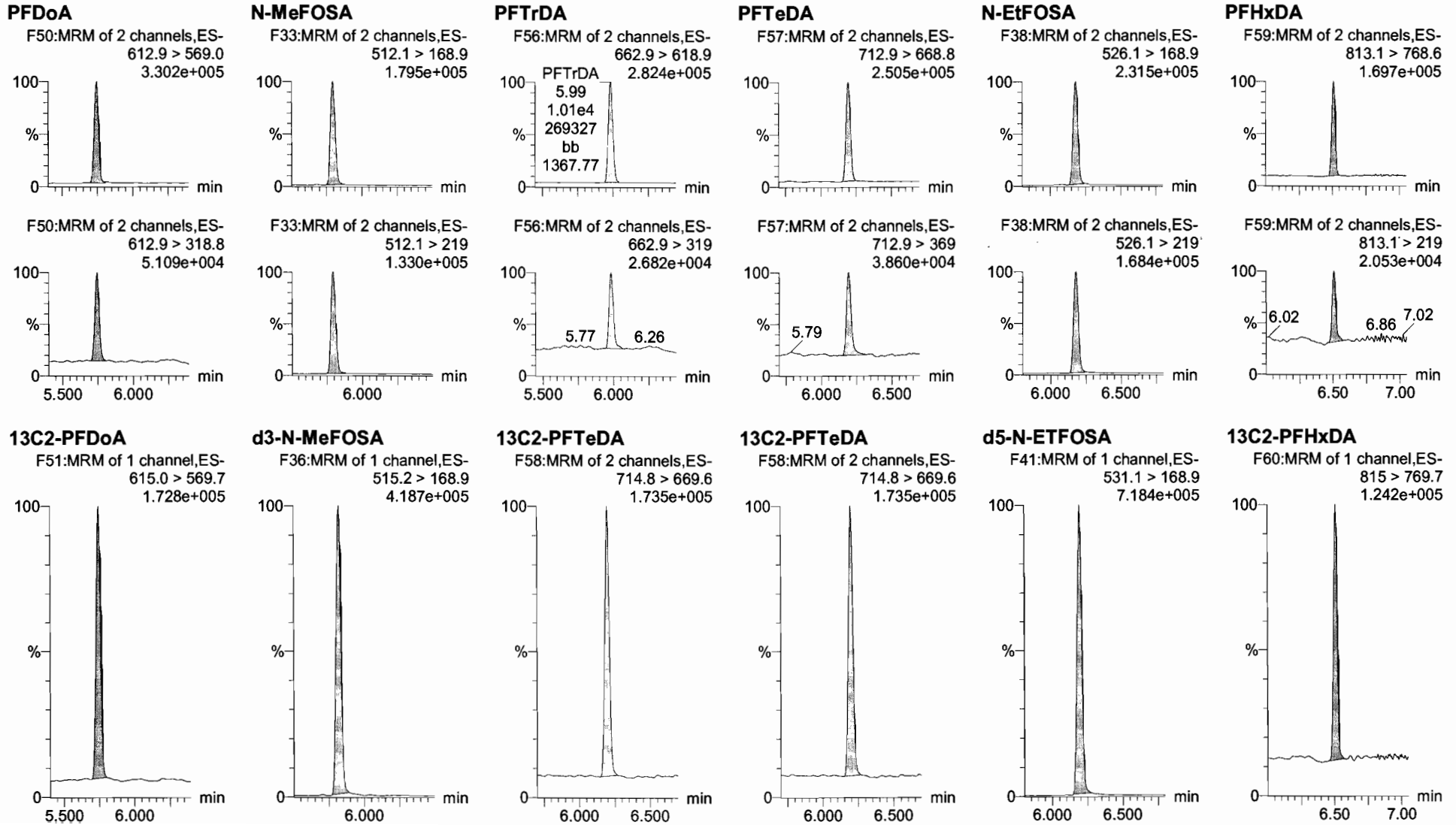
13C2-PFUdA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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Name: 171223M1_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207



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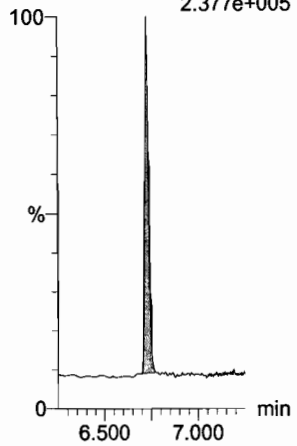
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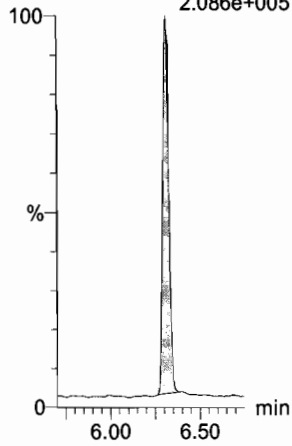
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.377e+005



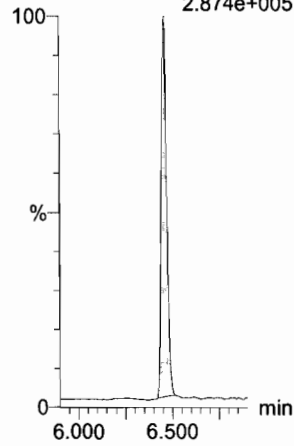
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
2.086e+005



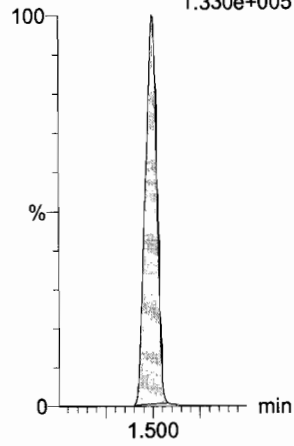
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
2.874e+005



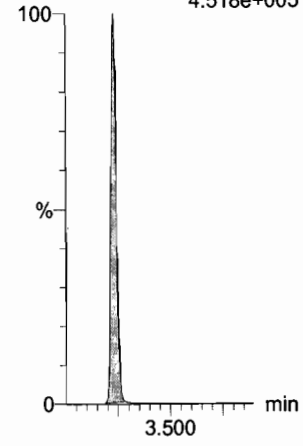
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.330e+005



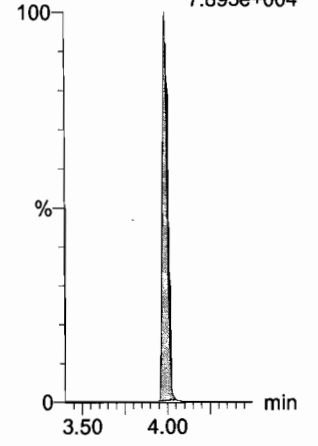
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.518e+005



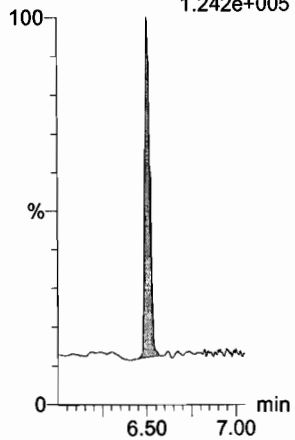
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.893e+004



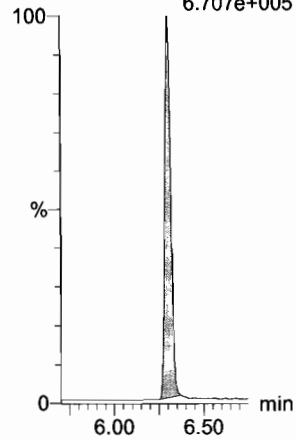
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.242e+005



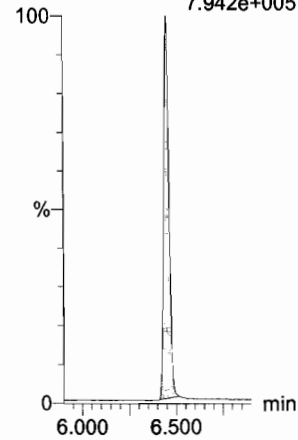
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
6.707e+005



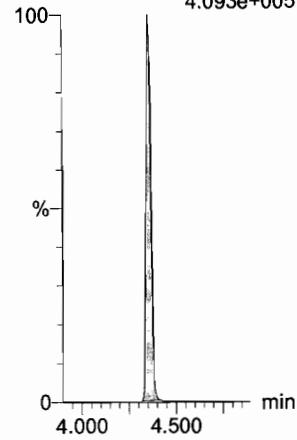
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
7.942e+005



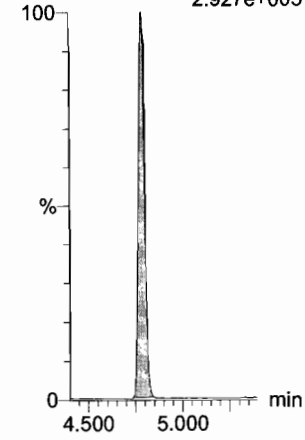
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
4.093e+005



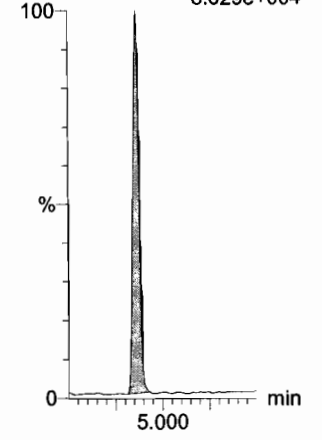
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.927e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
8.629e+004



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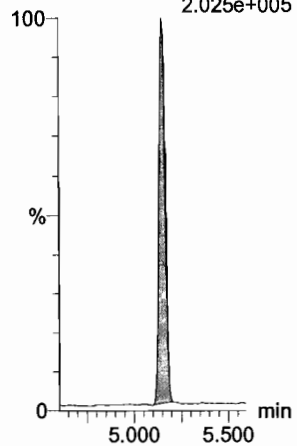
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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

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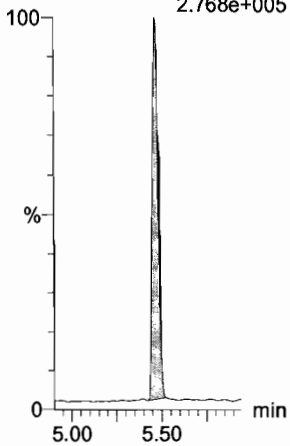
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.025e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.768e+005



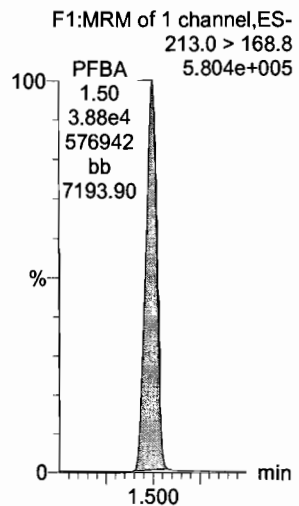
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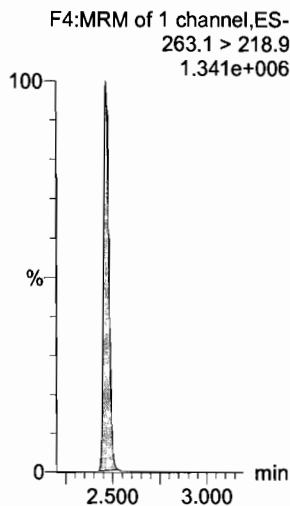
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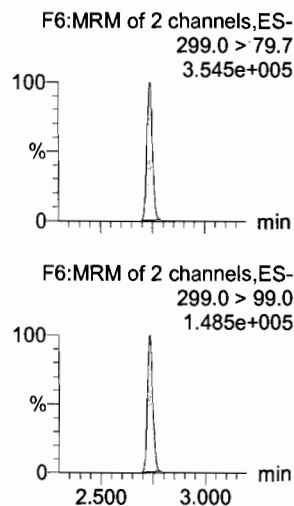
PFBA



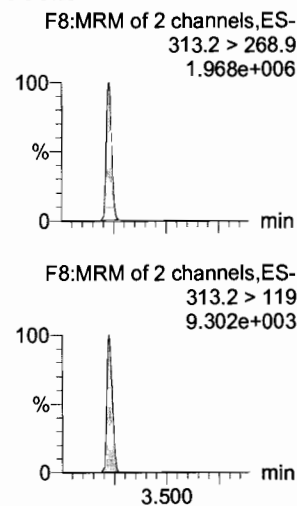
PFPeA



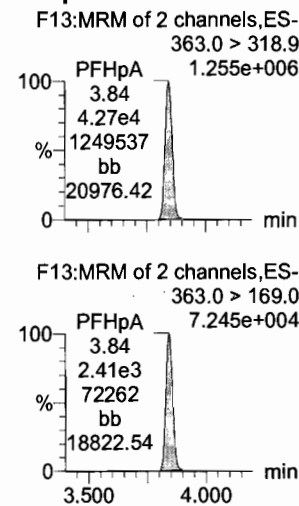
PFBS



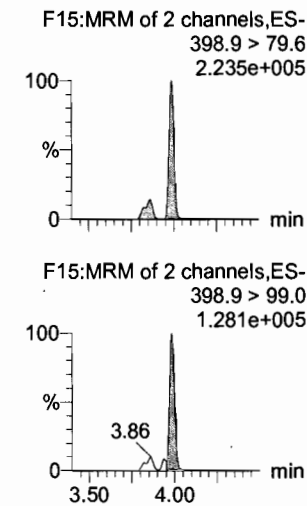
PFHxA



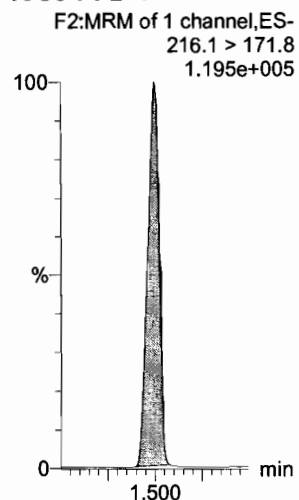
PFHpA



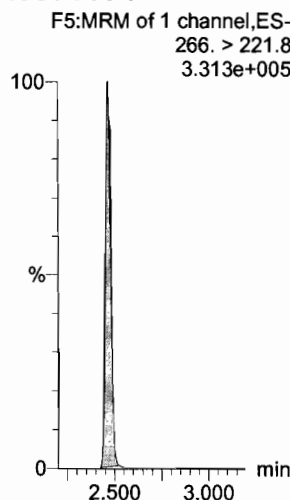
L-PFHxS



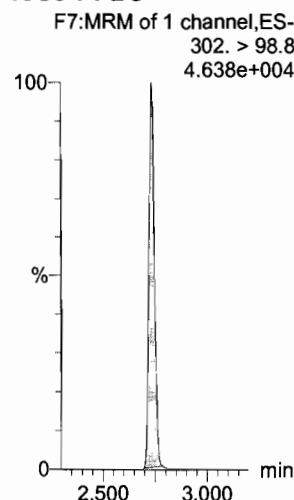
13C3-PFBA



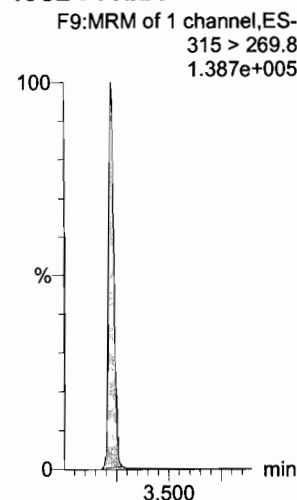
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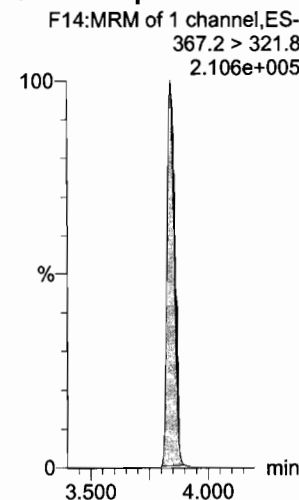
13C3-PFBS



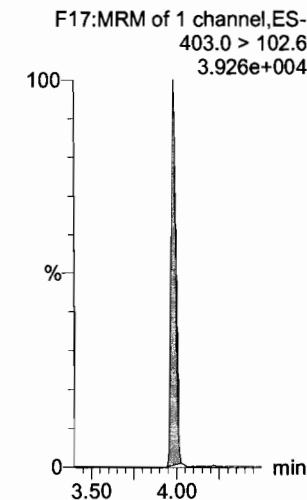
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

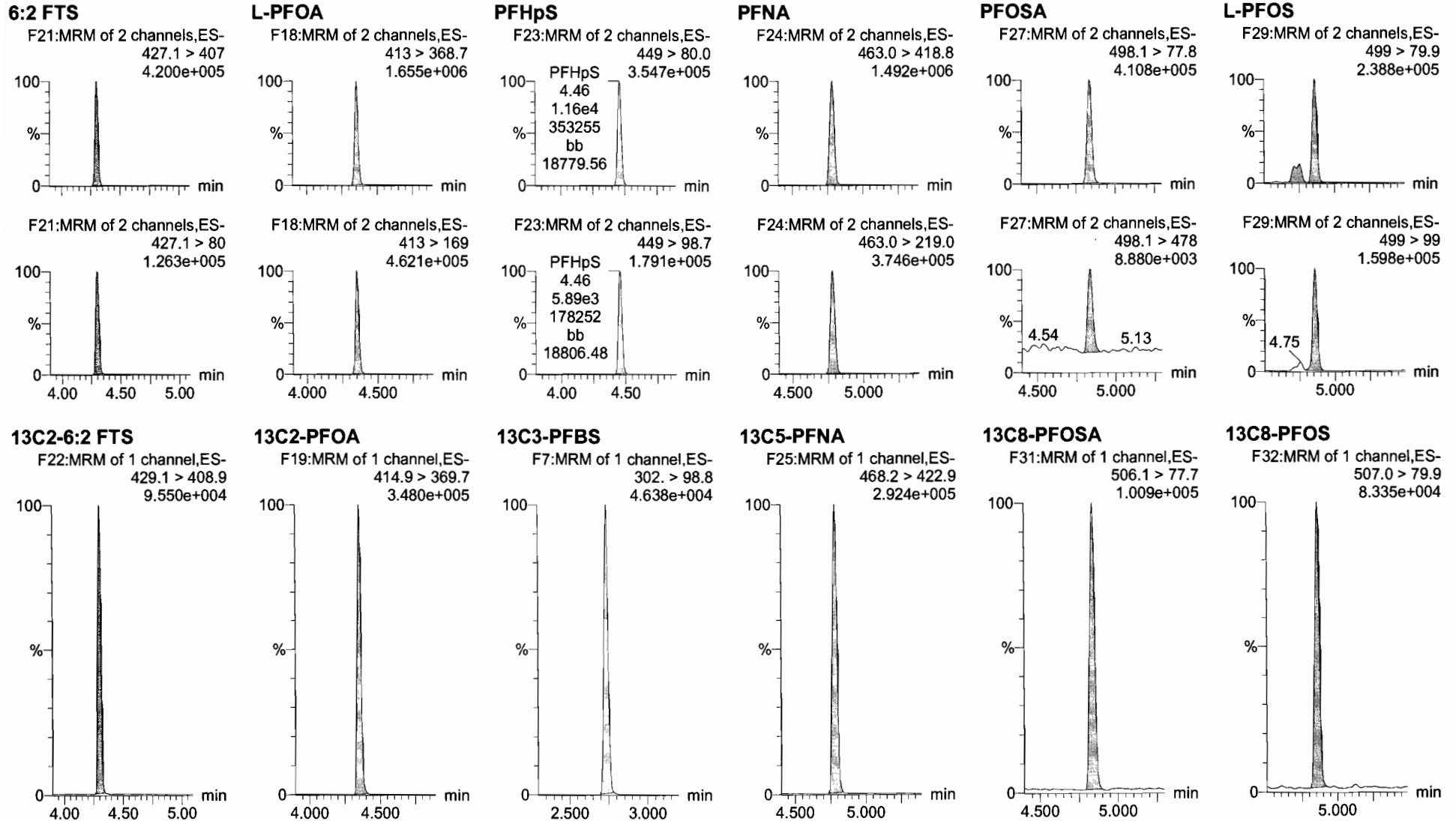


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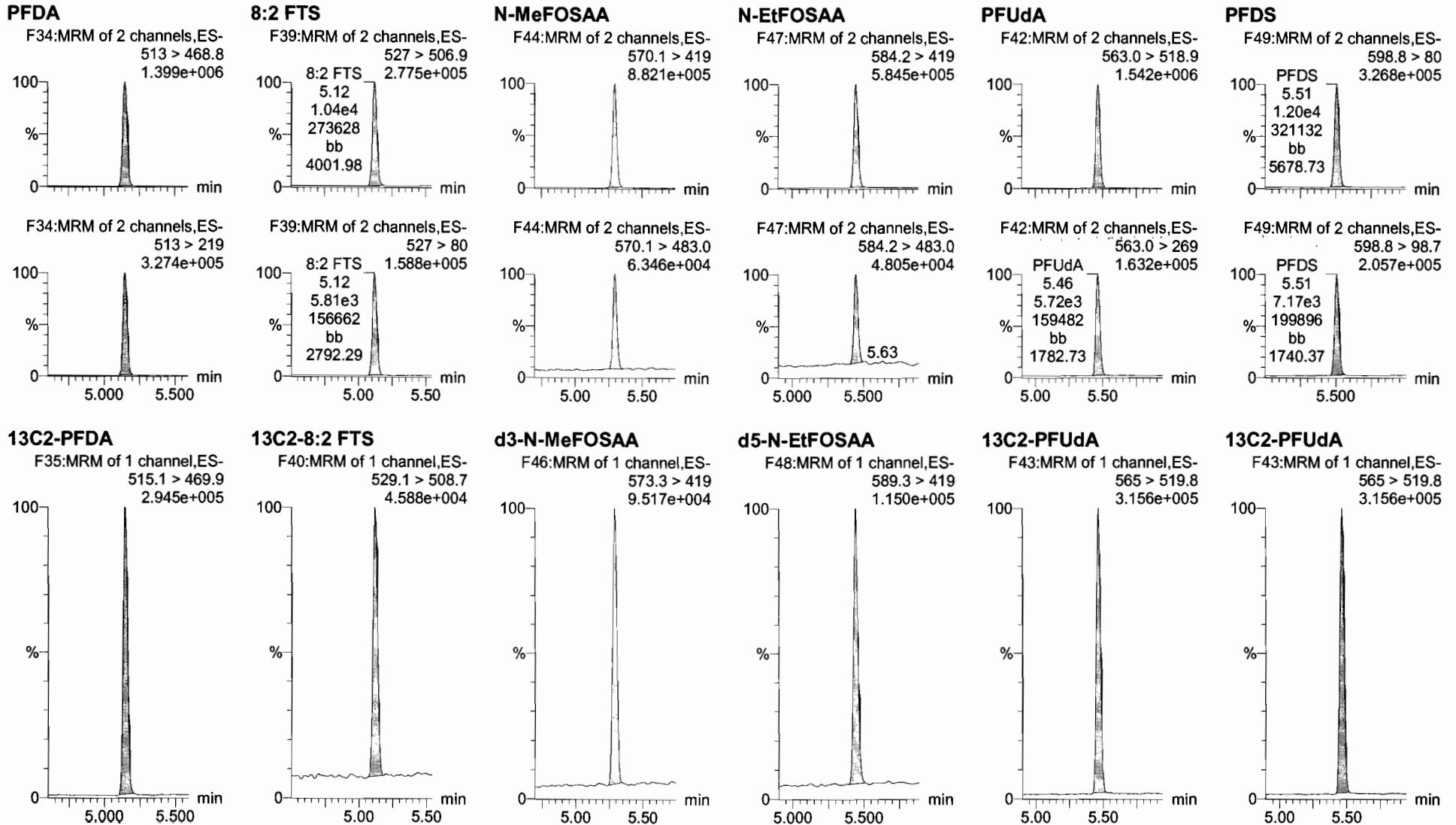


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Name: 171223M1_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208



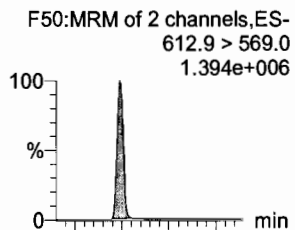
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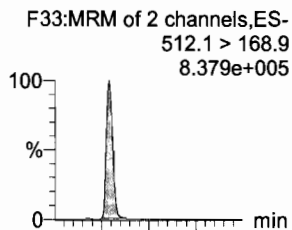
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Name: 171223M1_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

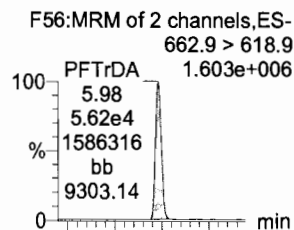
PFDoA



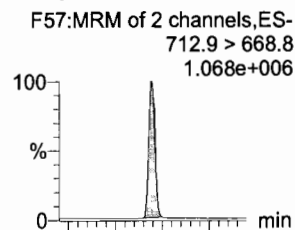
N-MeFOSA



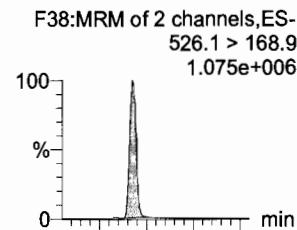
PFTrDA



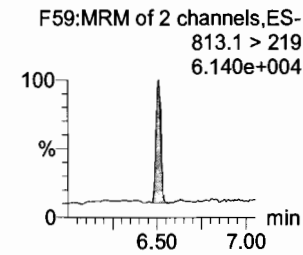
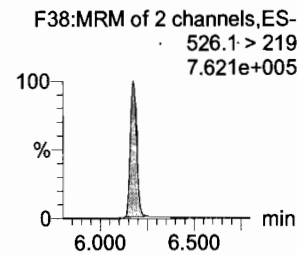
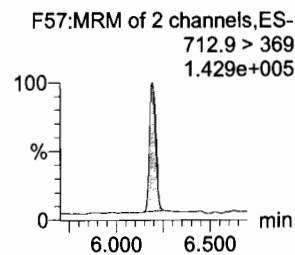
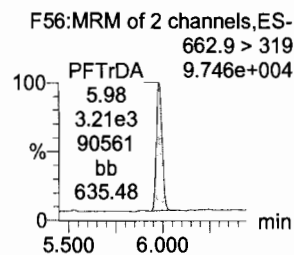
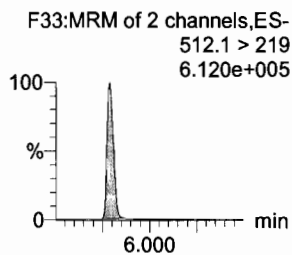
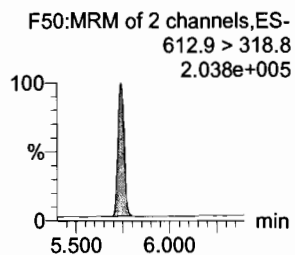
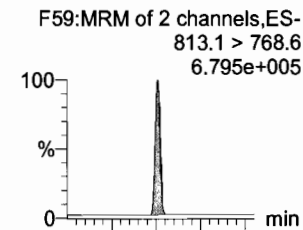
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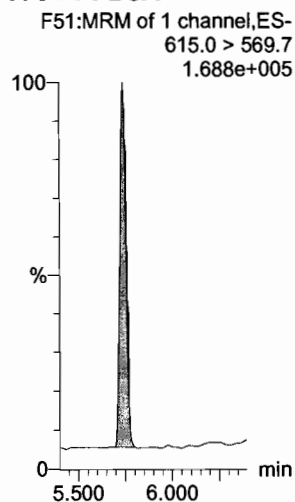
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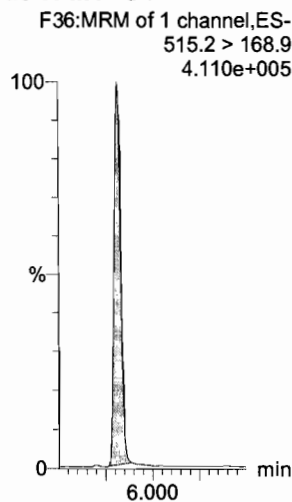
PFHxDA



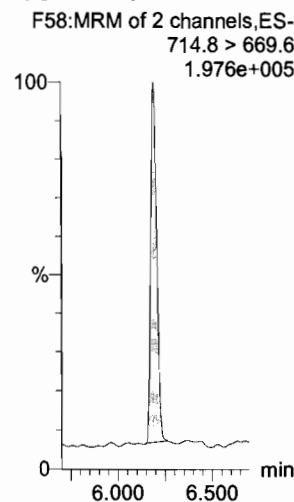
13C2-PFDoA



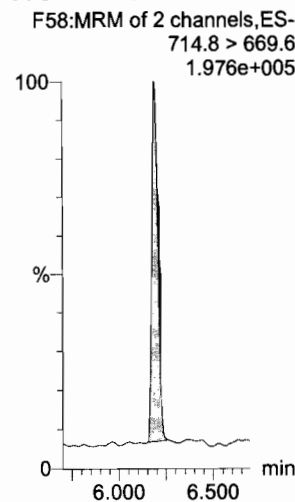
d3-N-MeFOSA



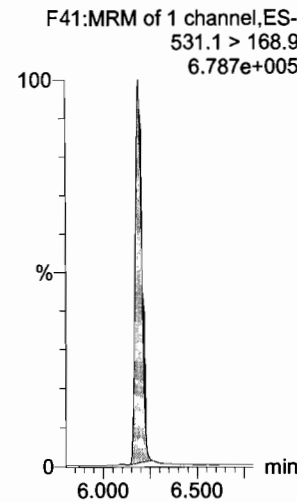
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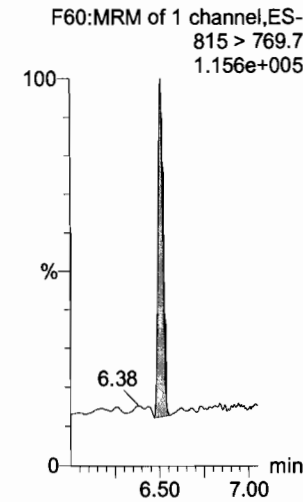
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



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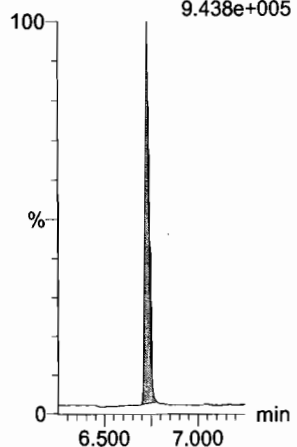
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Name: 171223M1_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

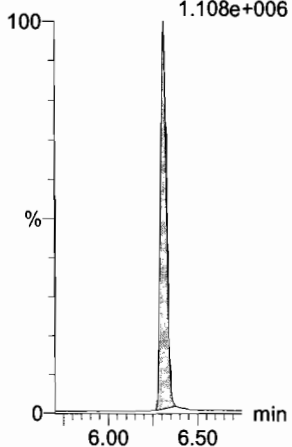
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F61:MRM of 1 channel,ES-
913.1 > 868.8
9.438e+005



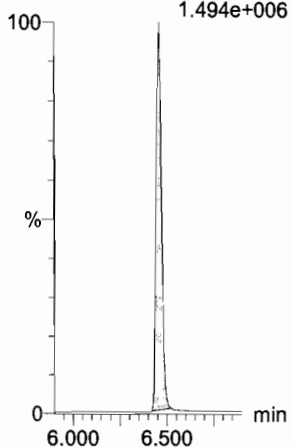
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
1.108e+006



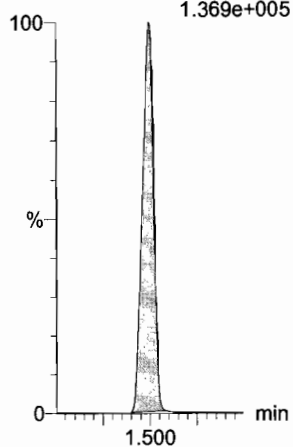
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
1.494e+006



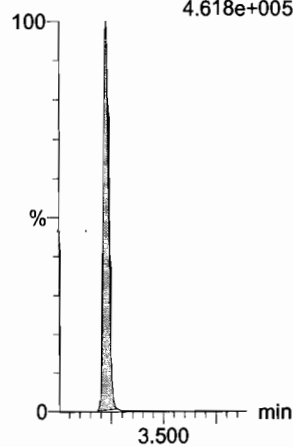
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.369e+005



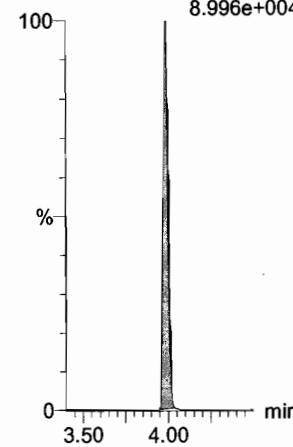
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.618e+005



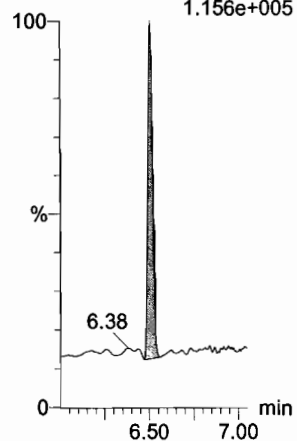
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
8.996e+004



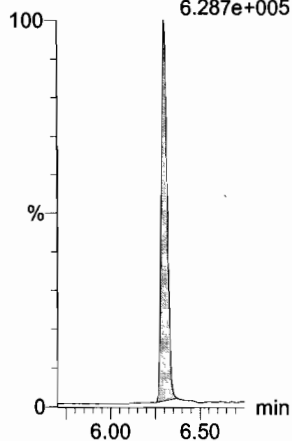
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.156e+005



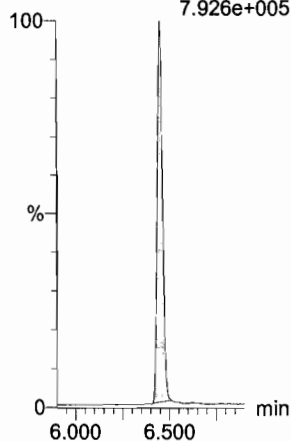
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
6.287e+005



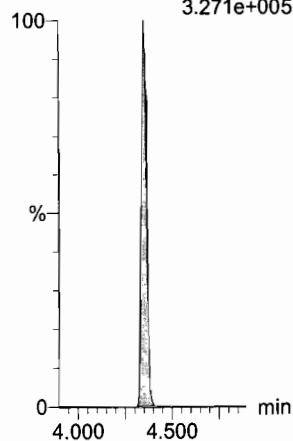
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
7.926e+005



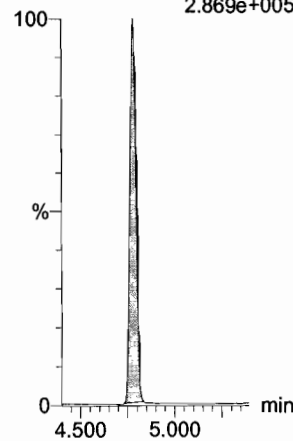
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.271e+005



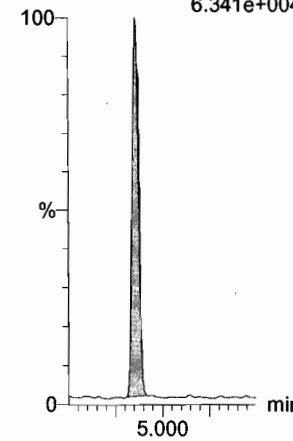
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.869e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.341e+004



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

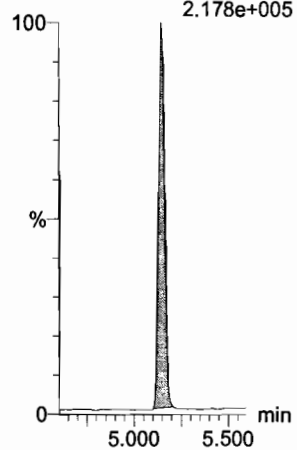
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Name: 171223M1_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

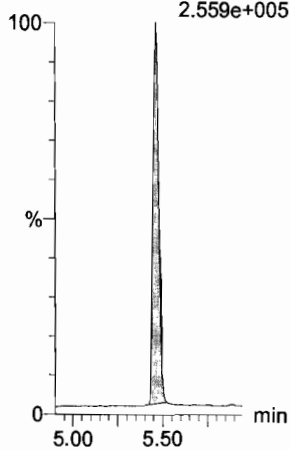
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.178e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.559e+005



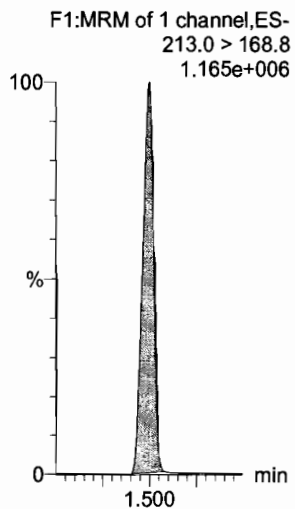
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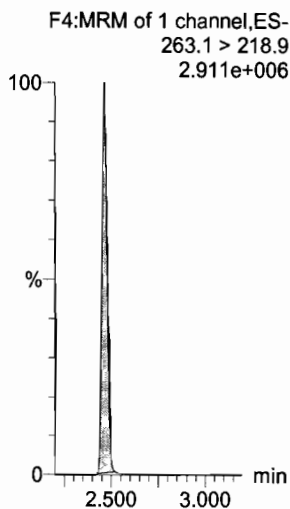
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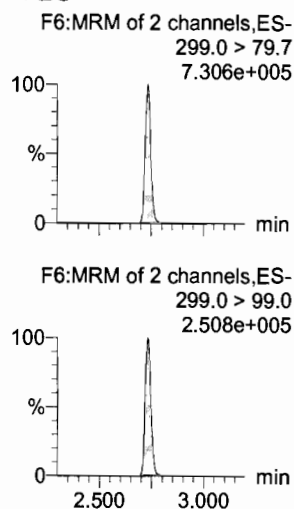
PFBA



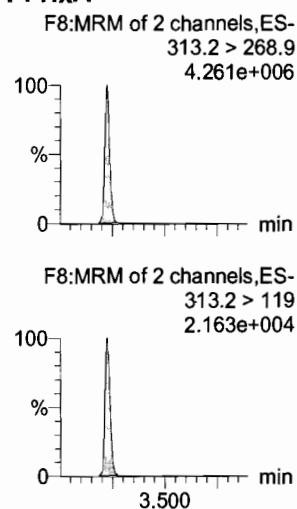
PFPeA



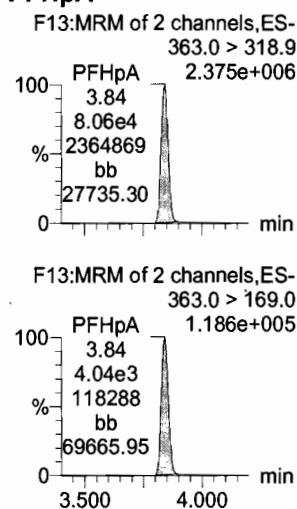
PFBS



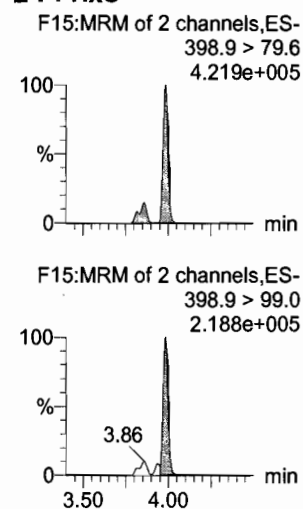
PFHxA



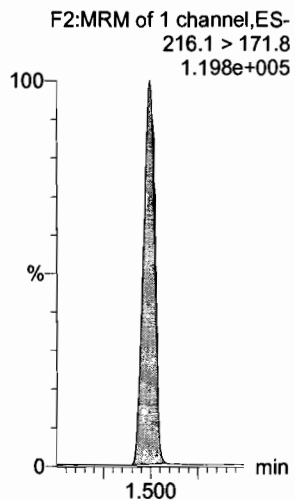
PFHpA



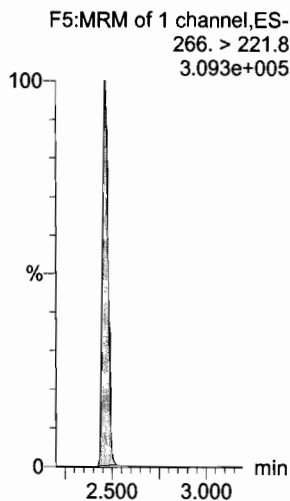
L-PFHxS



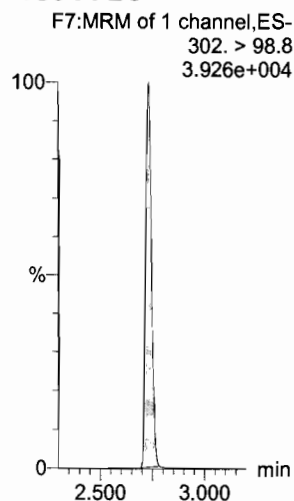
13C3-PFBA



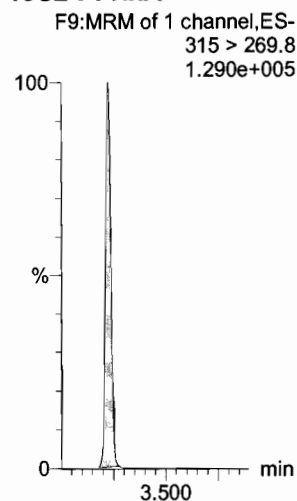
13C3-PFPeA



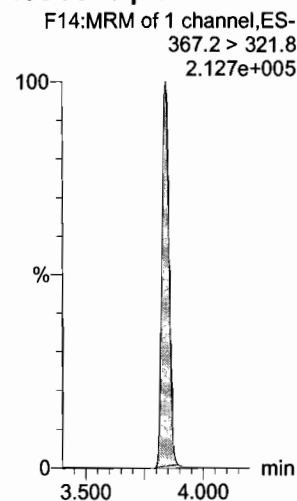
13C3-PFBS



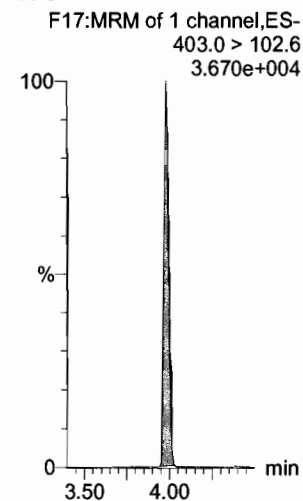
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

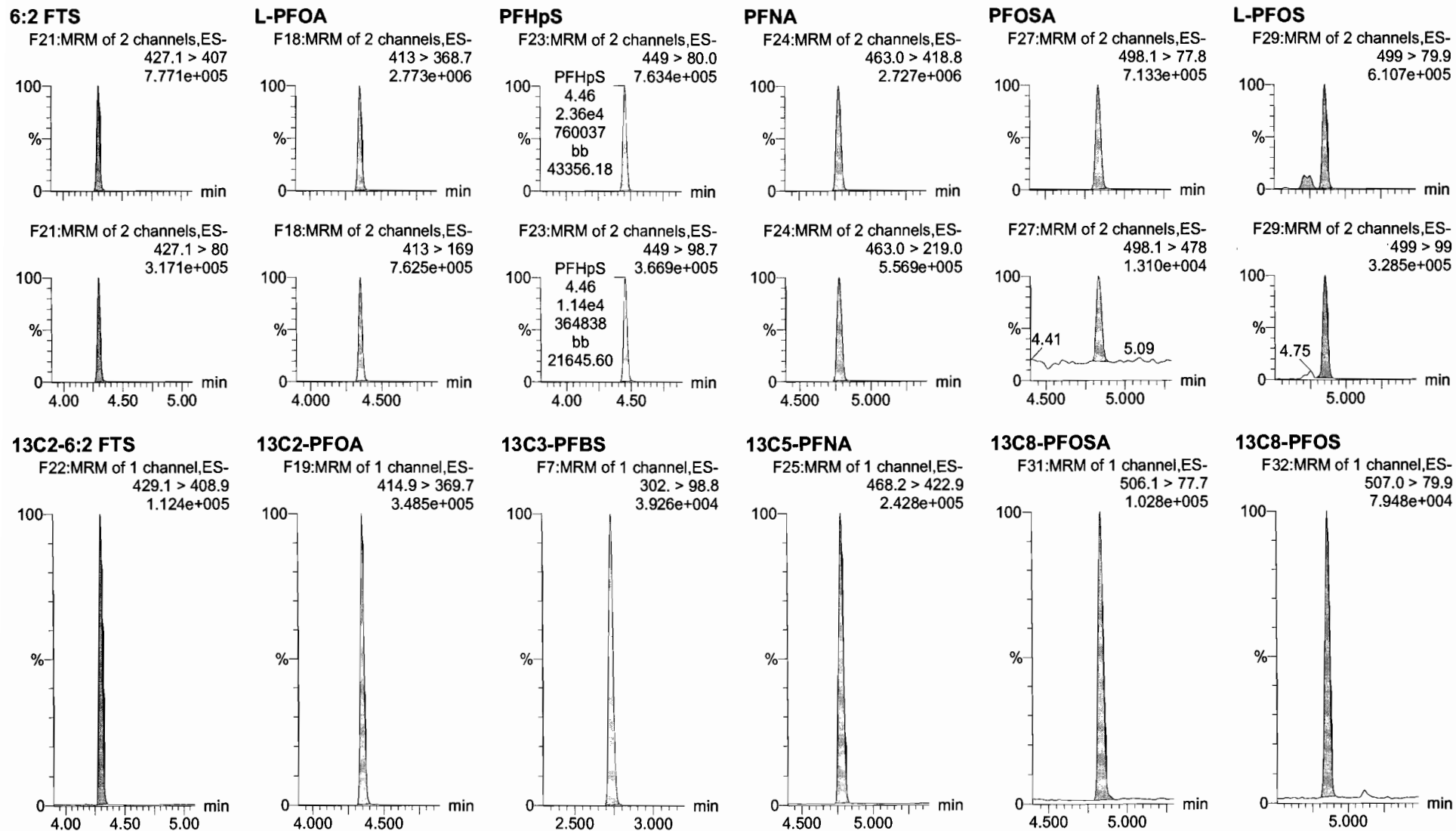


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Name: 171223M1_9, Date: 23-Dec-2017, Time: 14:26:30, ID: ST171223M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209



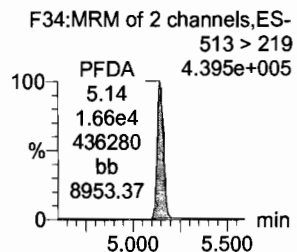
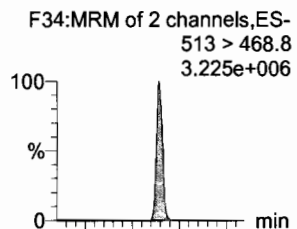
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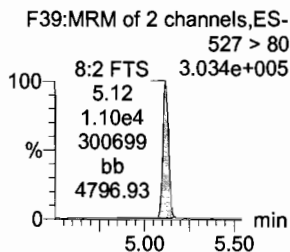
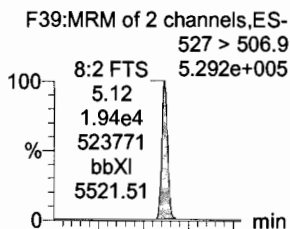
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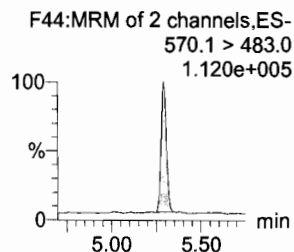
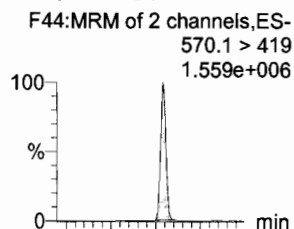
PFDA



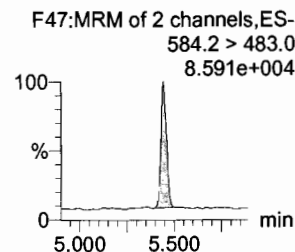
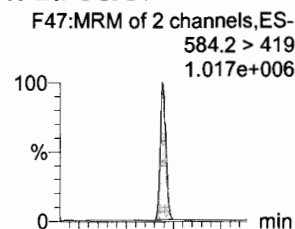
8:2 FTS



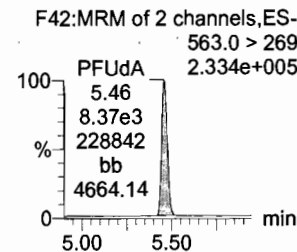
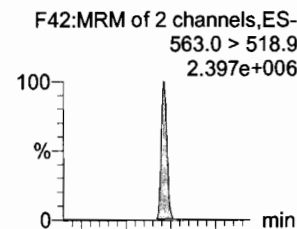
N-MeFOSAA



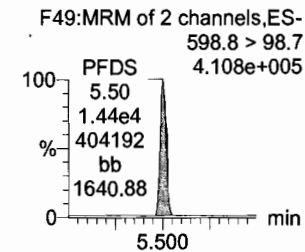
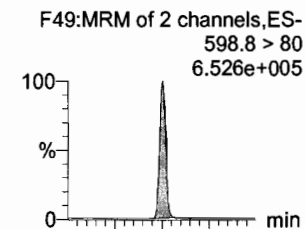
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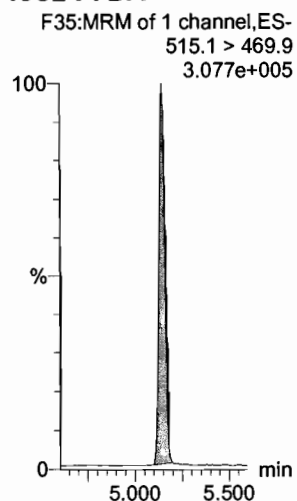
PFUdA



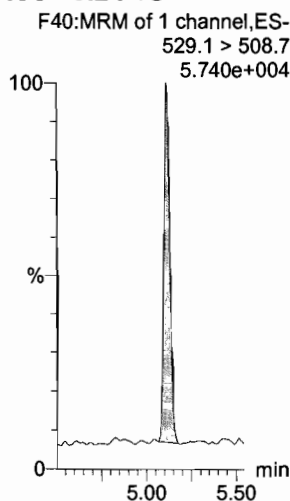
PFDS



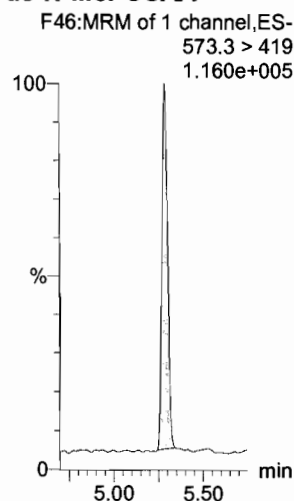
13C2-PFDA



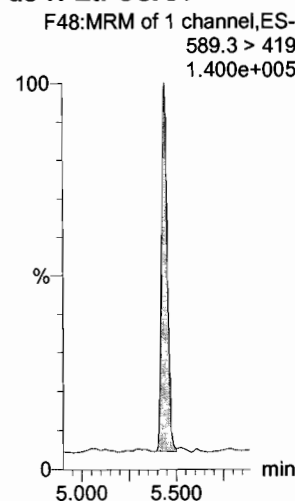
13C2-8:2 FTS



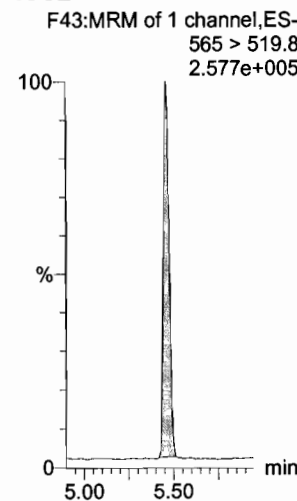
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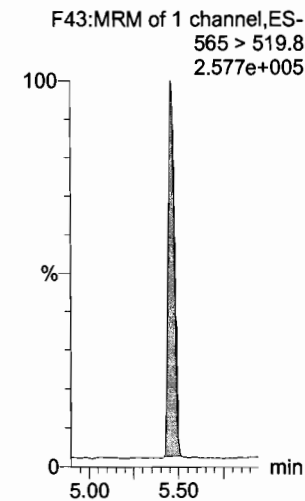
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13C2-PFUdA



13C2-PFUdA



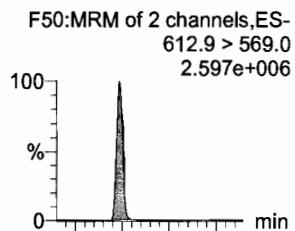
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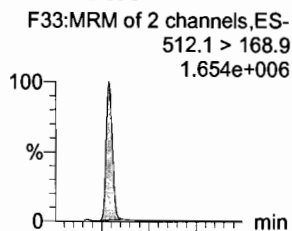
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Name: 171223M1_9, Date: 23-Dec-2017, Time: 14:26:30, ID: ST171223M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

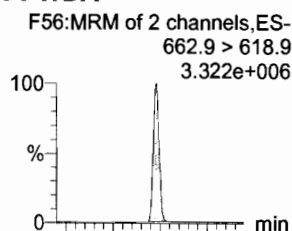
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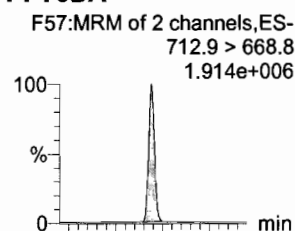
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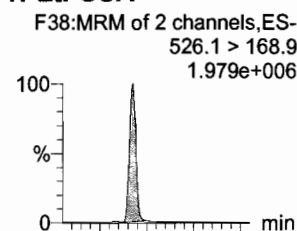
PFTrDA



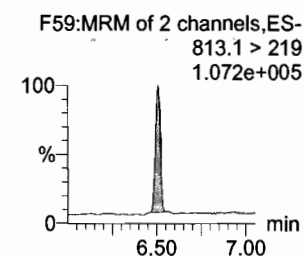
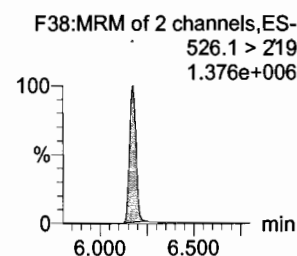
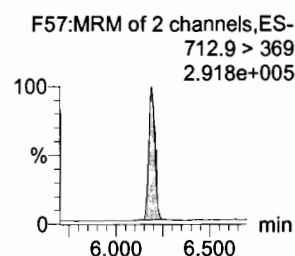
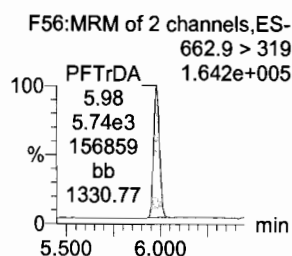
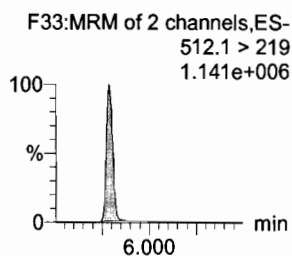
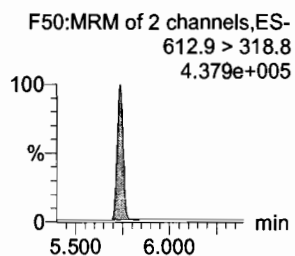
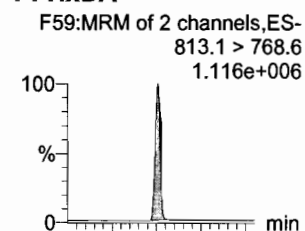
PFTeDA



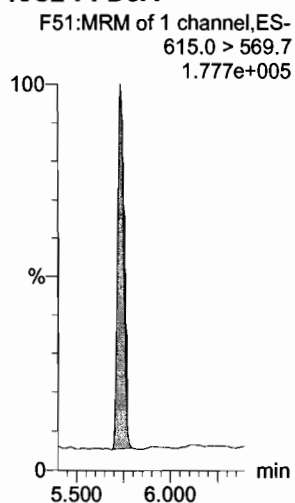
N-EtFOSA



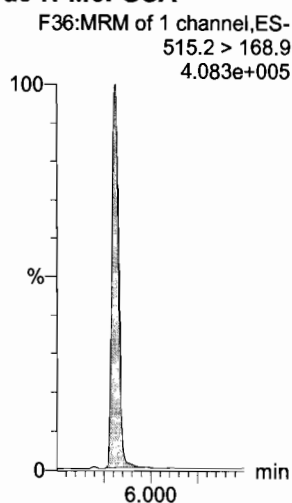
PFHxDA



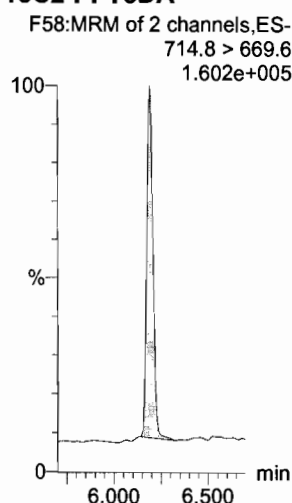
13C2-PFDoA



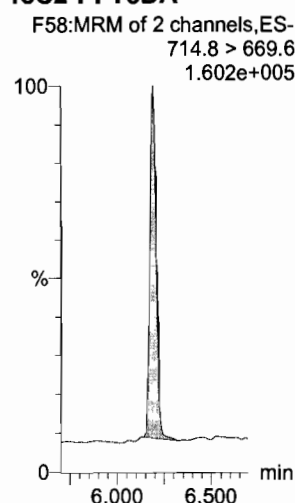
d3-N-MeFOSA



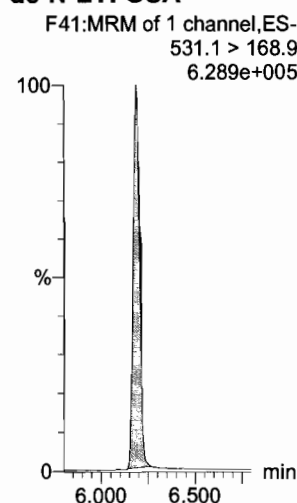
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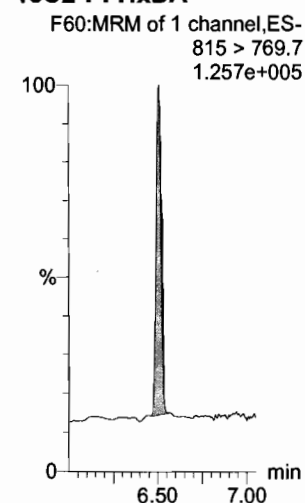
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d5-N-ETFOSA



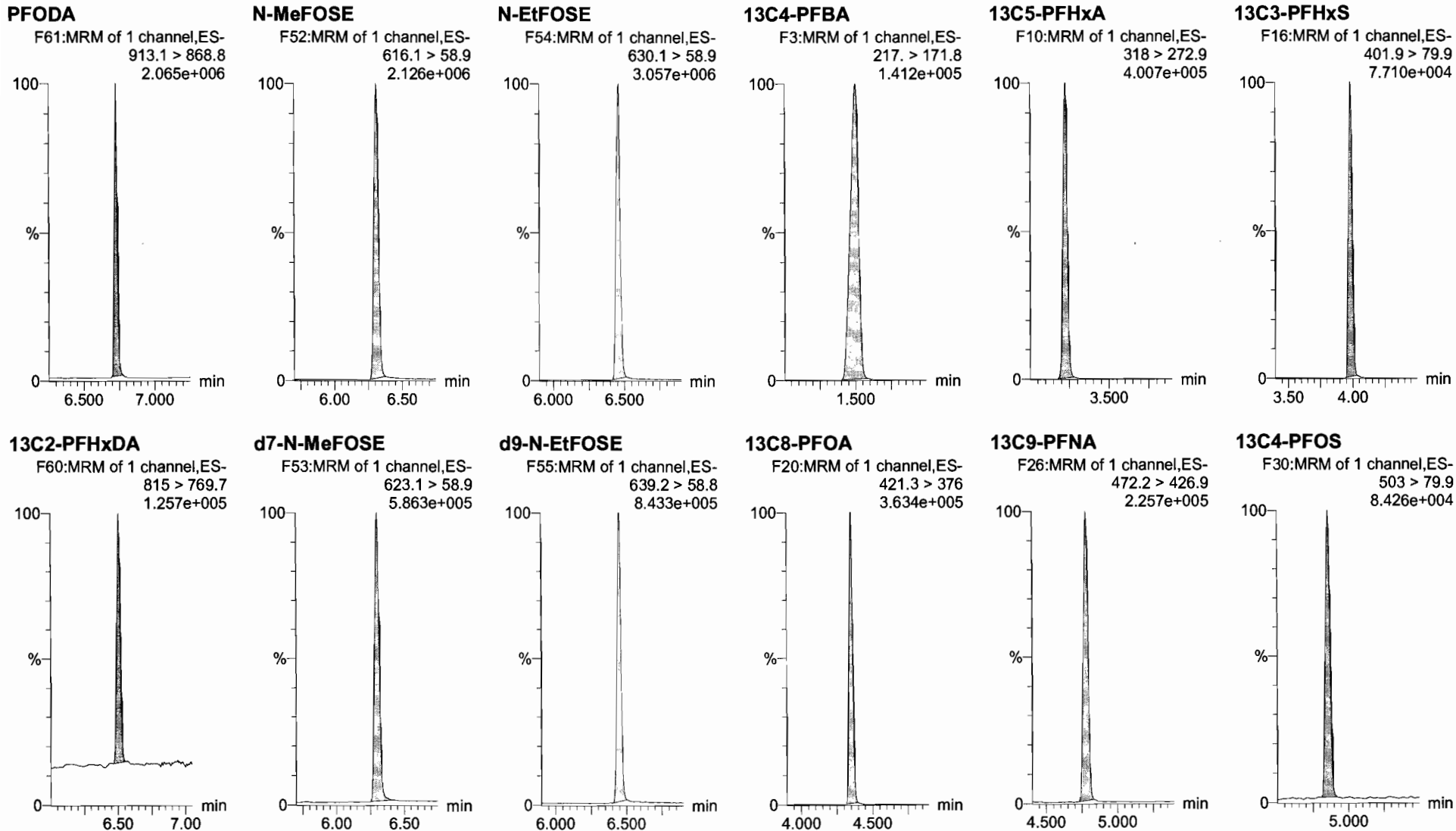
13C2-PFHxDA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_9, Date: 23-Dec-2017, Time: 14:26:30, ID: ST171223M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

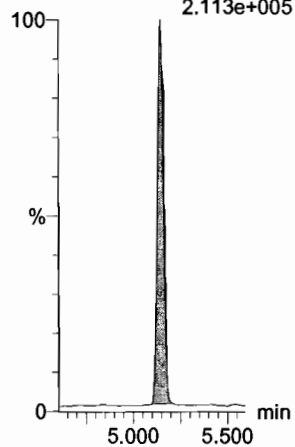
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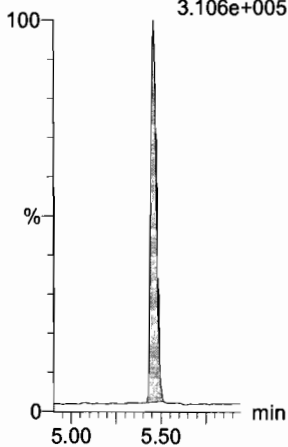
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.113e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
3.106e+005

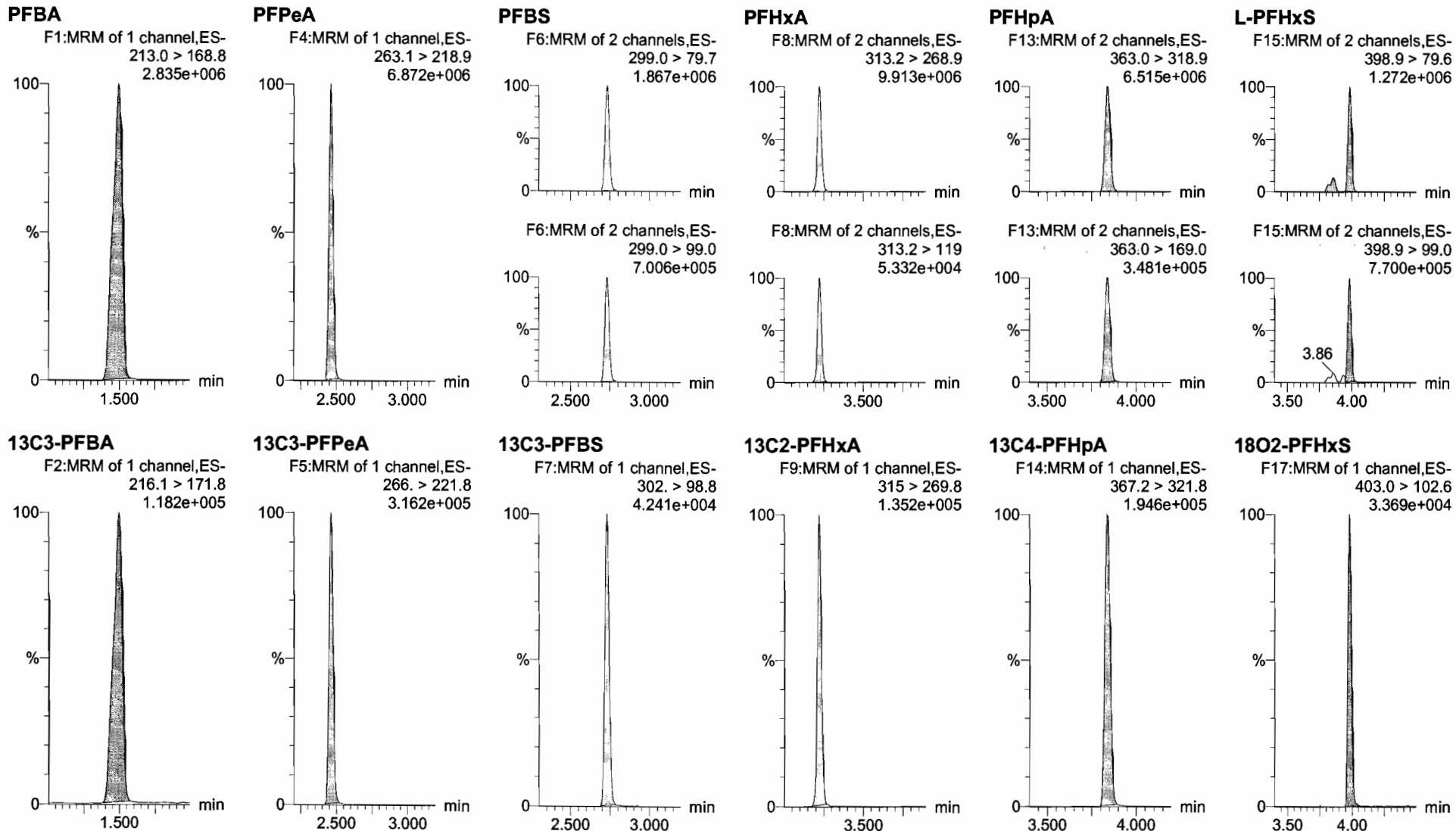


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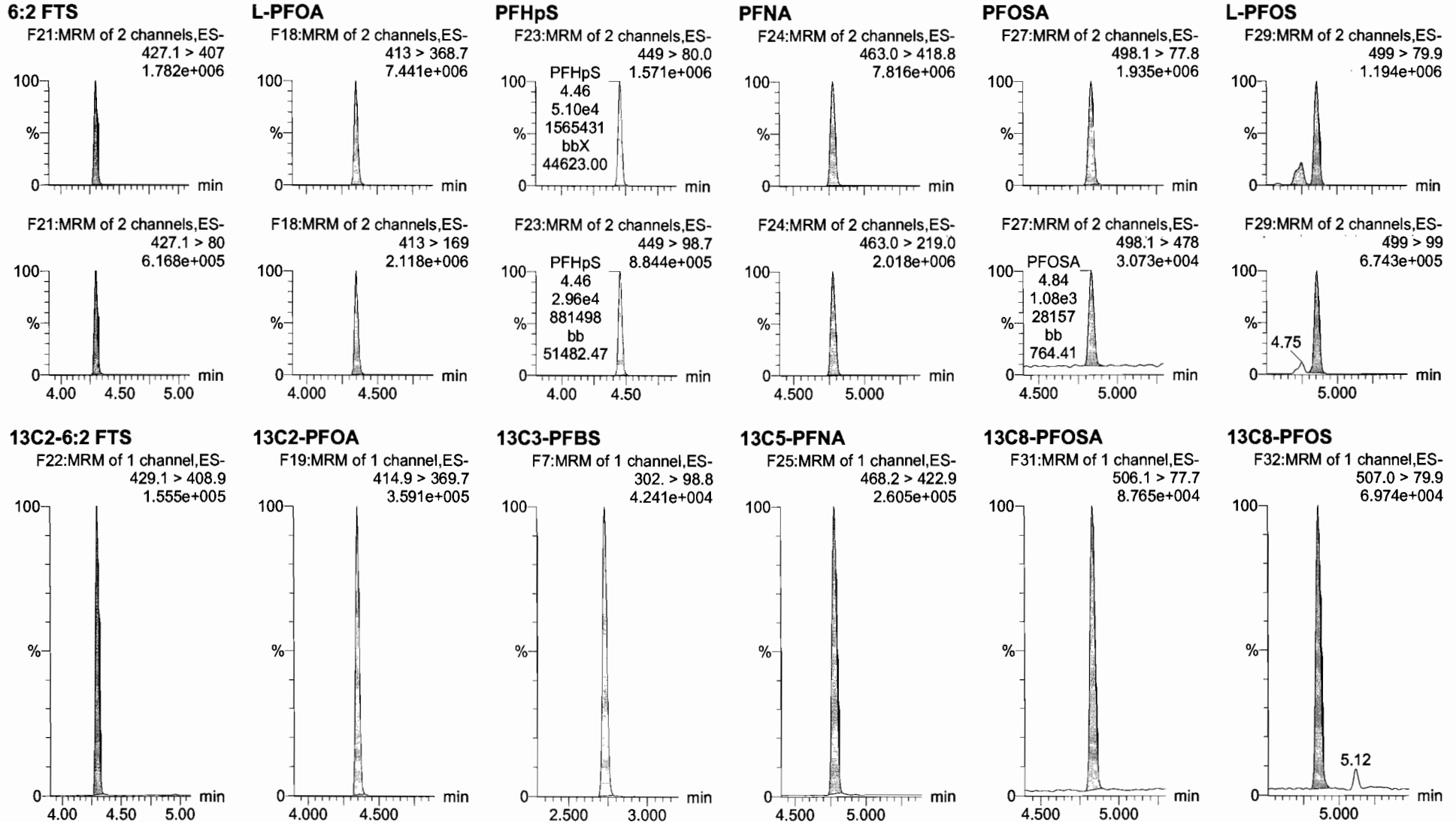
Name: 171223M1_10, Date: 23-Dec-2017, Time: 14:37:41, ID: ST171223M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_10, Date: 23-Dec-2017, Time: 14:37:41, ID: ST171223M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803

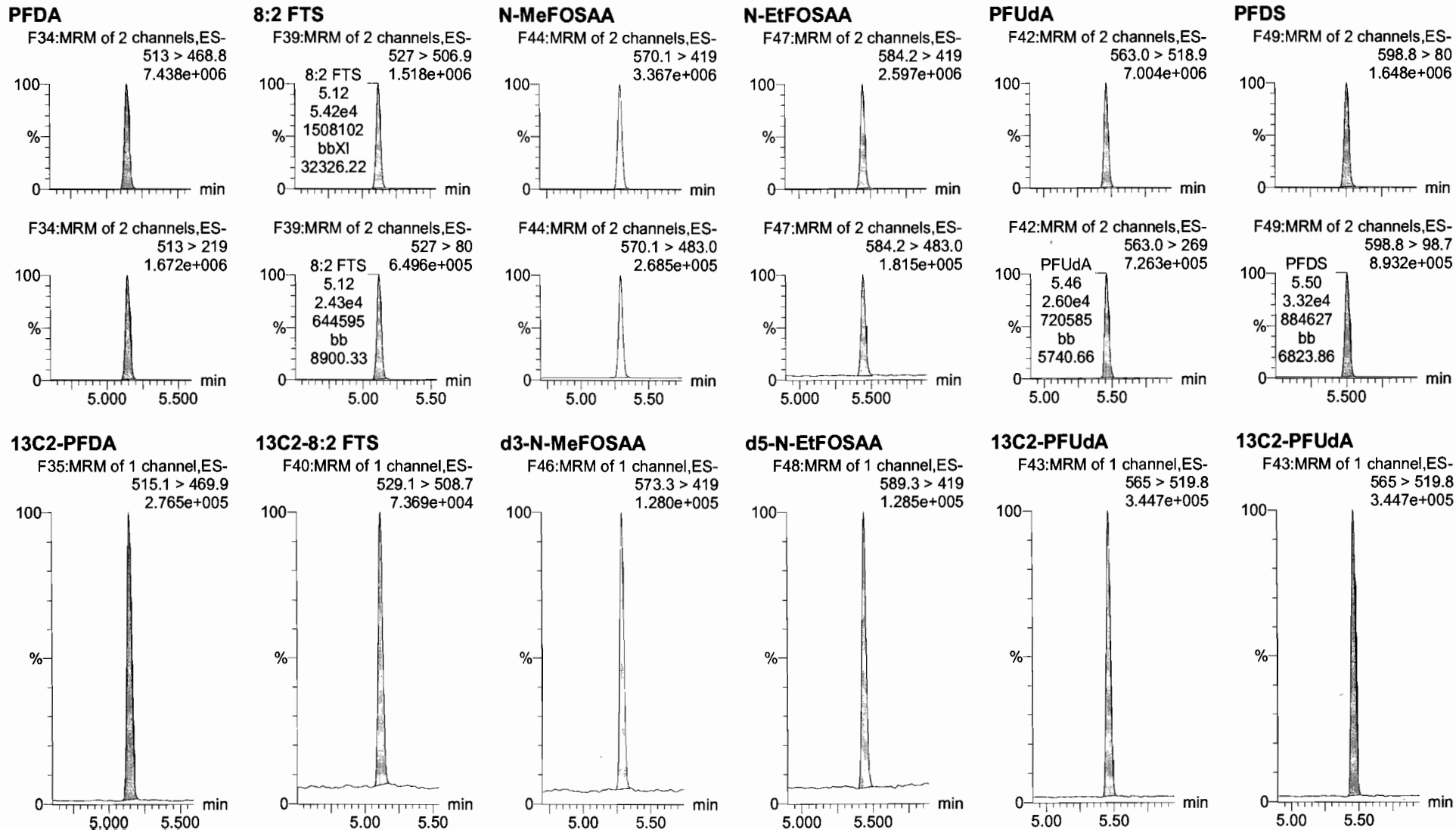


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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_10, Date: 23-Dec-2017, Time: 14:37:41, ID: ST171223M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803



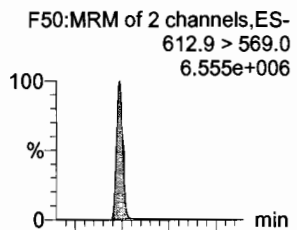
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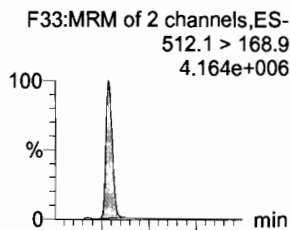
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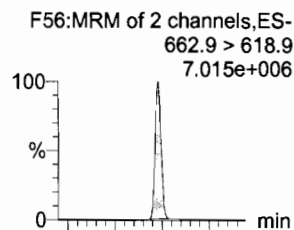
PFDoA



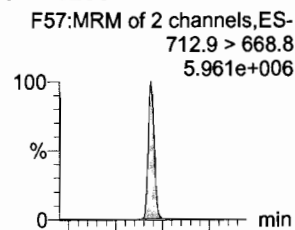
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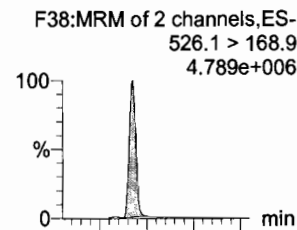
PFTrDA



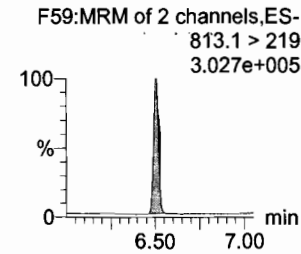
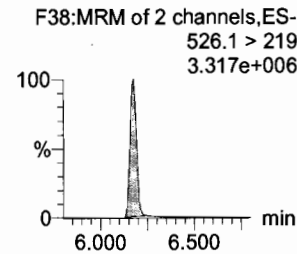
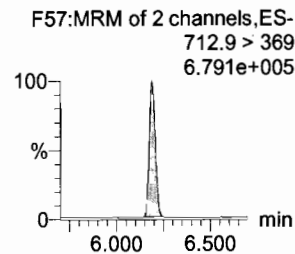
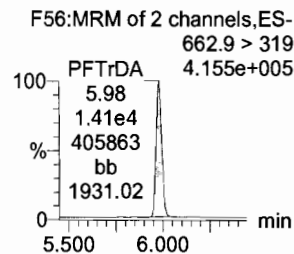
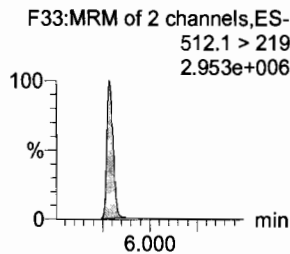
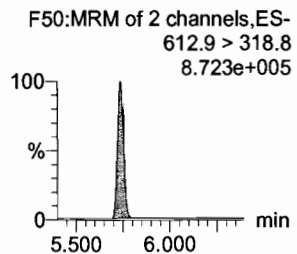
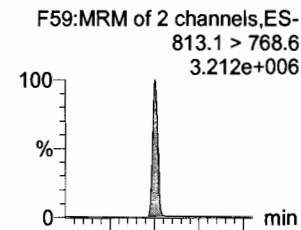
PFTeDA



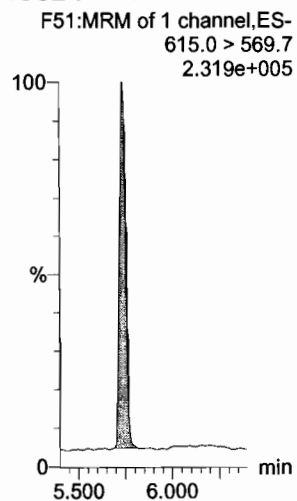
N-EtFOSA



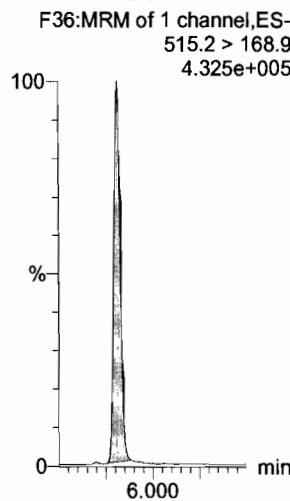
PFHxDA



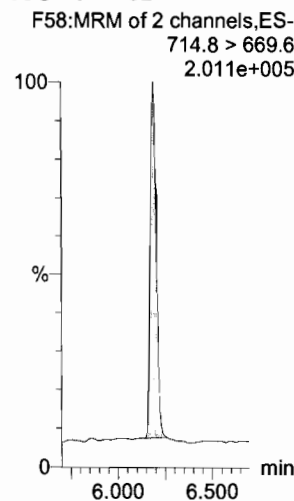
13C2-PFDoA



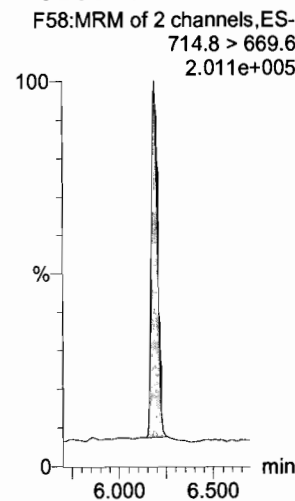
d3-N-MeFOSA



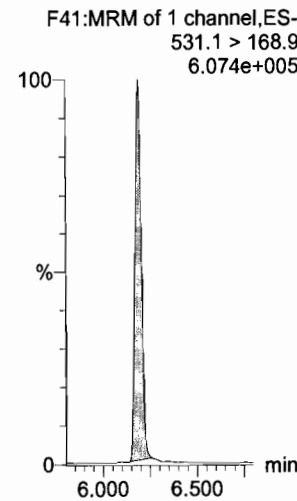
13C2-PFTeDA



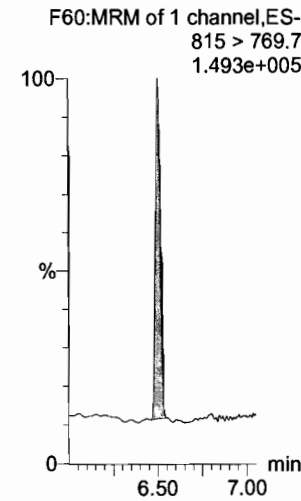
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA

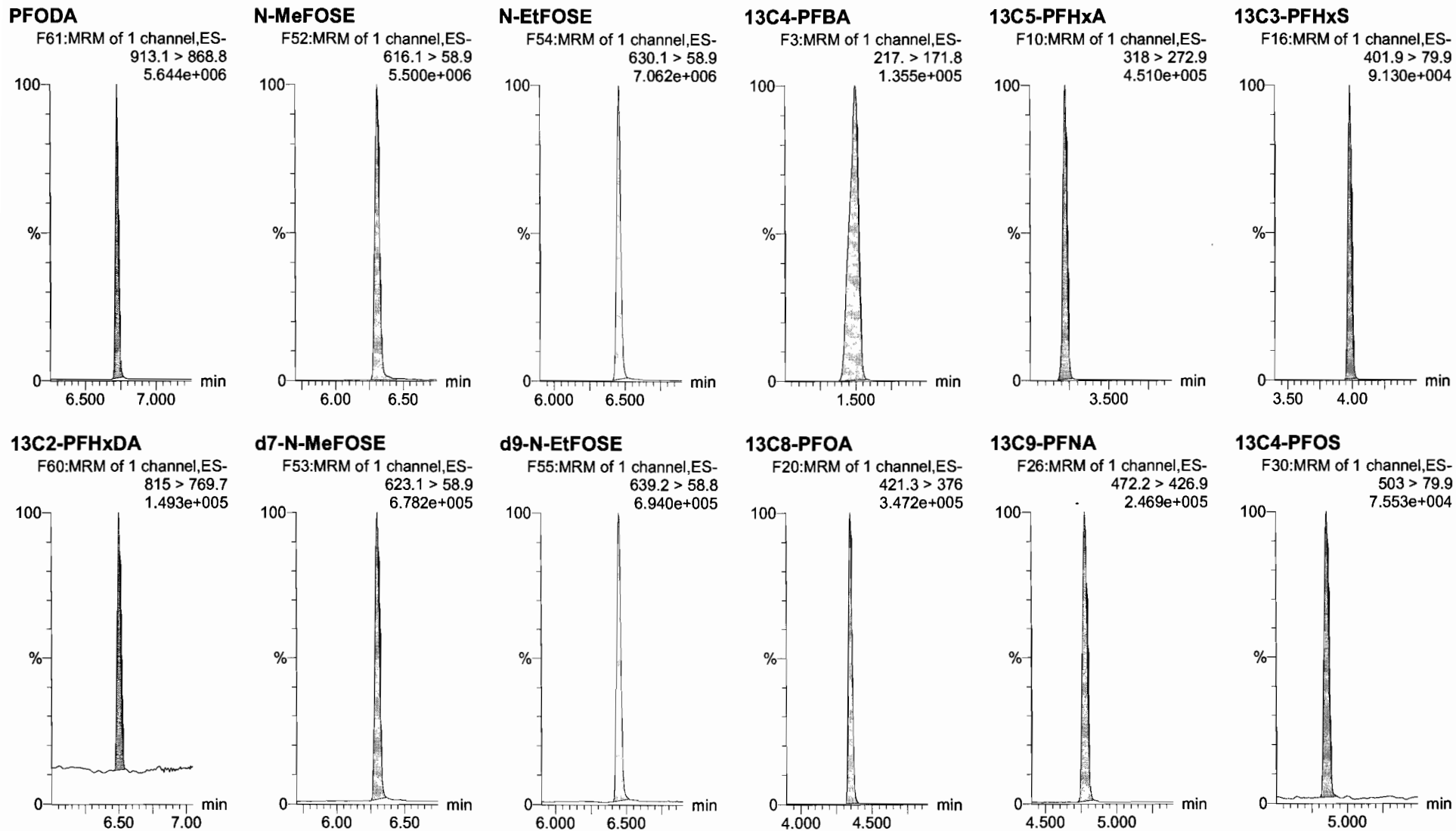


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1_10, Date: 23-Dec-2017, Time: 14:37:41, ID: ST171223M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803



Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

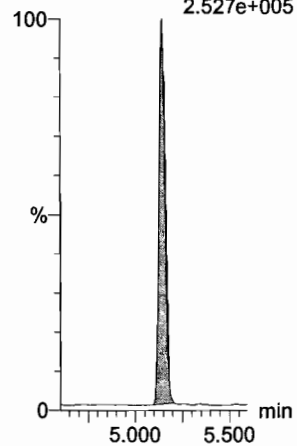
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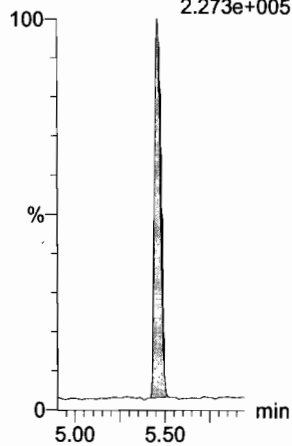
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.527e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.273e+005



Dataset: U:\Q4.PRO\results\171223M1\171223M1-13.qld

Ⓐ No standard available.

Last Altered: Tuesday, December 26, 2017 12:09:00 Pacific Standard Time
Printed: Tuesday, December 26, 2017 12:09:42 Pacific Standard Time

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12/26/17

JJA
12/26/2017

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122317.mdb 26 Dec 2017 12:02:01
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	7.67e3	8.45e3	1.0000		1.47	1.50	11.3	9.277	92.8
2	2 PFPeA	263.1 > 218.9	8.92e3	1.14e4	1.0000		2.44	2.46	9.77	9.095	91.0
3	3 PFBS	299.0 > 79.7	2.19e3	1.67e3	1.0000		2.70	2.73	16.4	7.565	75.6
4	4 PFHxA	313.2 > 268.9	1.25e4	4.38e3	1.0000		3.20	3.22	14.3	9.656	96.6
5	5 PFHpA	363.0 > 318.9	9.13e3	8.23e3	1.0000		3.80	3.84	13.9	8.904	89.0
6	6 L-PFHxS	398.9 > 79.6	1.68e3	1.11e3	1.0000		3.95	3.98	19.0	10.734	107.3
7	8 6:2 FTS	427.1 > 407	2.02e3	2.71e3	1.0000		4.26	4.30	9.35	8.395	84.0
8	9 L-PFOA	413 > 368.7	9.01e3	1.12e4	1.0000		4.32	4.35	10.1	9.666	96.7
9	11 PFHpS	449 > 80.0	2.35e3	1.12e4	1.0000		4.43	4.46	2.62	10.115	101.1
10	12 PFNA	463.0 > 418.8	9.17e3	1.01e4	1.0000		4.75	4.78	11.4	8.328	83.3
11	13 PFOSA	498.1 > 77.8	3.03e3	3.85e3	1.0000		4.81	4.84	9.85	10.970	109.7
12	14 L-PFOS	499 > 79.9	2.66e3	2.92e3	1.0000		4.83	4.86	11.4	10.393	103.9
13	16 PFDA	513 > 468.8	9.94e3	9.76e3	1.0000		5.11	5.14	12.7	7.449	74.5
14	17 8:2 FTS	527 > 506.9	1.81e3	1.50e3	1.0000		5.09	5.12	15.0	7.515	75.1
15	18 N-MeFOSAA	570.1 > 419	5.77e3	3.98e3	1.0000		5.26	5.29	18.1	8.559	85.6
16	19 N-EtFOSAA	584.2 > 419	3.88e3	4.91e3	1.0000		5.42	5.44	9.89	7.587	75.9
17	20 PFUdA	563.0 > 518.9	8.12e3	1.08e4	1.0000		5.43	5.46	9.43	7.711	77.1
18	21 PFDS	598.8 > 80	2.22e3	1.08e4	1.0000		5.50	5.51	2.58	7.615	76.2
19	22 PFDoA	612.9 > 569.0	9.46e3	6.62e3	1.0000		5.70	5.74	17.9	7.289	72.9
20	23 N-MeFOSA	512.1 > 168.9		1.71e4	1.0000		5.77				Ⓐ
21	24 PFTrDA	662.9 > 618.9	9.77e3	6.62e3	1.0000		5.95	5.98	18.4	7.008	70.1
22	25 PFTeDA	712.9 > 668.8	7.61e3	5.27e3	1.0000		6.16	6.19	18.0	11.256	112.6
23	26 N-EtFOSA	526.1 > 168.9		2.68e4	1.0000		6.15				Ⓐ
24	27 PFHxDA	813.1 > 768.6		3.42e3	1.0000		6.48				
25	28 PFODA	913.1 > 868.8		3.42e3	1.0000		6.70				
26	29 N-MeFOSE	616.1 > 58.9		2.55e4	1.0000		6.30				
27	30 N-EtFOSE	630.1 > 58.9		2.35e4	1.0000		6.42				
28	31 13C3-PFBA	216.1 > 171.8	8.45e3	9.32e3	1.0000	0.880	1.47	1.50	11.3	12.889	103.1
29	32 13C3-PFPeA	266. > 221.8	1.14e4	1.39e4	1.0000	0.826	2.44	2.46	10.3	12.465	99.7
30	33 13C3-PFBS	302. > 98.8	1.67e3	1.39e4	1.0000	0.106	2.70	2.73	1.51	14.203	113.6
31	Work Order 171223M1-13	315 > 269.8	4.38e3	1.39e4	1.0000	0.743	3.20	3.22	3.95	5.316	106.6

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Dataset: U:\Q4.PRO\results\171223M1\171223M1-13.qld

Last Altered: Tuesday, December 26, 2017 12:09:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 12:09:42 Pacific Standard Time

Name: 171223M1_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	8.23e3	1.39e4	1.0000	0.557	3.80	3.84	7.41	13.317	106.5
33	36 18O2-PFHxS	403.0 > 102.6	1.11e3	2.65e3	1.0000	0.433	3.95	3.98	5.21	12.053	96.4
34	37 13C2-6:2 FTS	429.1 > 408.9	2.71e3	8.96e3	1.0000	0.275	4.26	4.30	3.77	13.740	109.9
35	38 13C2-PFOA	414.9 > 369.7	1.12e4	8.96e3	1.0000	1.141	4.32	4.35	15.6	13.676	109.4
36	39 13C5-PFNA	468.2 > 422.9	1.01e4	8.83e3	1.0000	0.963	4.75	4.78	14.3	14.845	118.8
37	40 13C8-PFOA	506.1 > 77.7	3.85e3	1.01e4	1.0000	0.373	4.81	4.84	4.78	12.807	102.5
38	41 13C8-PFOS	507.0 > 79.9	2.92e3	3.56e3	1.0000	1.075	4.83	4.85	10.2	9.524	76.2
39	42 13C2-PFDA	515.1 > 469.9	9.76e3	8.62e3	1.0000	1.213	5.11	5.15	14.2	11.673	93.4
40	43 13C2-8:2 FTS	529.1 > 508.7	1.50e3	1.39e4	1.0000	0.109	5.09	5.12	1.35	12.374	99.0
41	44 d3-N-MeFOSAA	573.3 > 419	3.98e3	1.01e4	1.0000	0.405	5.26	5.29	4.94	12.183	97.5
42	45 d5-N-EtFOSAA	589.3 > 419	4.91e3	1.01e4	1.0000	0.490	5.42	5.44	6.09	12.434	99.5
43	46 13C2-PFUdA	565 > 519.8	1.08e4	1.01e4	1.0000	1.154	5.43	5.46	13.4	11.578	92.6
44	47 13C2-PFDoA	615.0 > 569.7	6.62e3	1.01e4	1.0000	0.623	5.70	5.73	8.22	13.209	105.7
45	48 d3-N-MeFOSA	515.2 > 168.9	1.71e4	1.01e4	1.0000	0.146	5.80	5.81	21.2	145.778	97.2
46	49 13C2-PFTeDA	714.8 > 669.6	5.27e3	1.01e4	1.0000	0.706	6.16	6.19	6.54	9.269	74.2
47	50 d5-N-ETFOSA	531.1 > 168.9	2.68e4	1.01e4	1.0000	0.227	6.16	6.19	33.3	146.476	97.7
48	51 13C2-PFHxDA	815 > 769.7	3.42e3	1.01e4	1.0000	0.909	6.48	6.50	4.24	4.671	93.4
49	52 d7-N-MeFOSE	623.1 > 58.9	2.55e4	1.01e4	1.0000	0.213	6.30	6.30	31.7	148.584	99.1
50	53 d9-N-EtFOSE	639.2 > 58.8	2.35e4	1.01e4	1.0000	0.225	6.42	6.45	29.2	129.611	86.4
51	54 13C4-PFBA	217. > 171.8	9.32e3	9.32e3	1.0000	1.000	1.47	1.49	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.39e4	1.39e4	1.0000	1.000	3.20	3.22	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	2.65e3	2.65e3	1.0000	1.000	3.95	3.98	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	8.96e3	8.96e3	1.0000	1.000	4.32	4.35	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	8.83e3	8.83e3	1.0000	1.000	4.75	4.78	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.56e3	3.56e3	1.0000	1.000	4.83	4.86	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.62e3	8.62e3	1.0000	1.000	5.11	5.15	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.01e4	1.01e4	1.0000	1.000	5.43	5.46	12.5	12.500	100.0

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Dataset: U:\Q4.PRO\results\171223M1\171223M1-13.qld

Last Altered: Tuesday, December 26, 2017 12:09:00 Pacific Standard Time

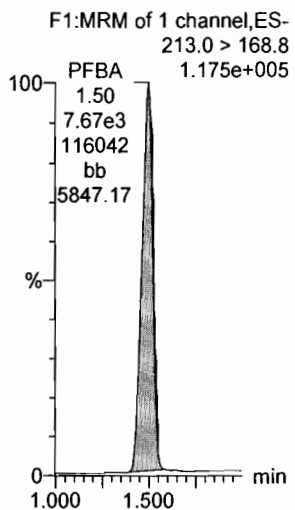
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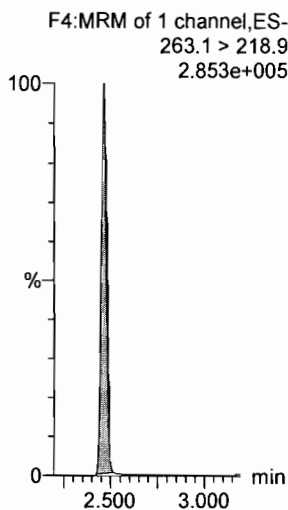
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Name: 171223M1_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

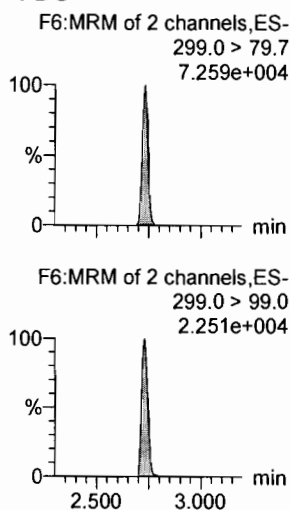
PFBA



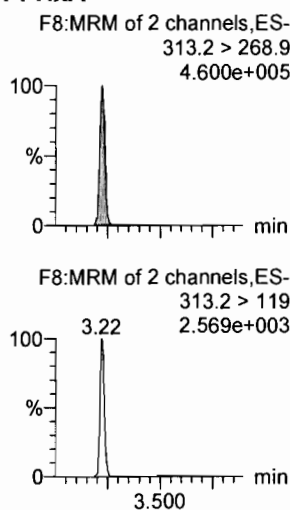
PFPeA



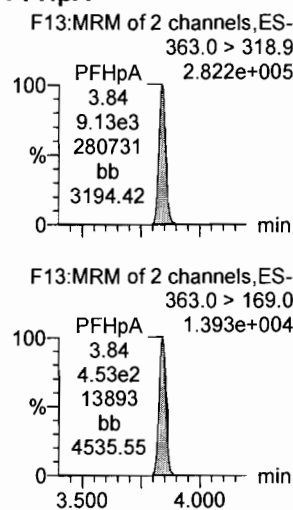
PFBS



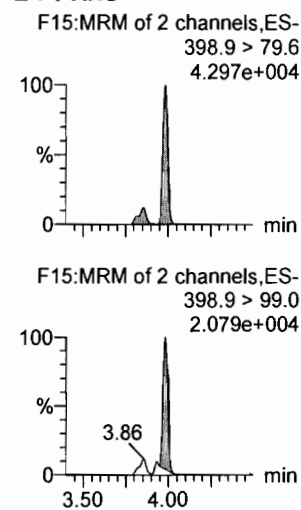
PFHxA



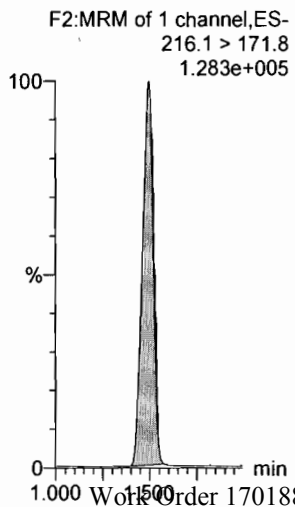
PFHpA



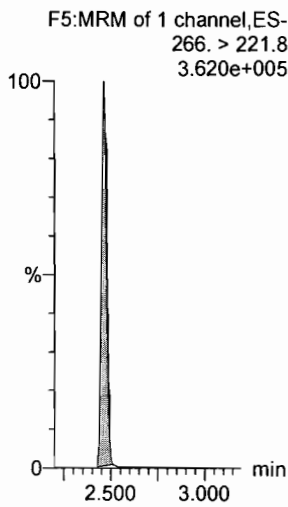
L-PFHxS



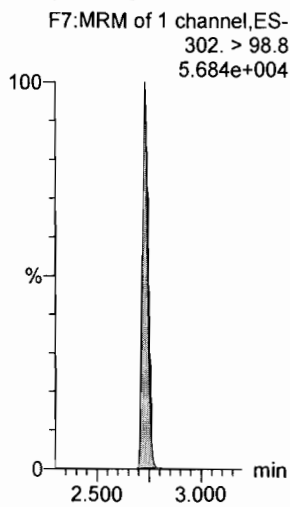
13C3-PFBA



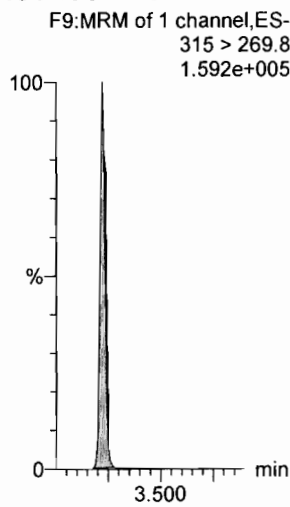
13C3-PFPeA



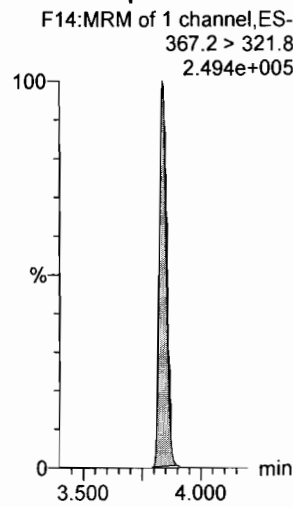
13C3-PFBS



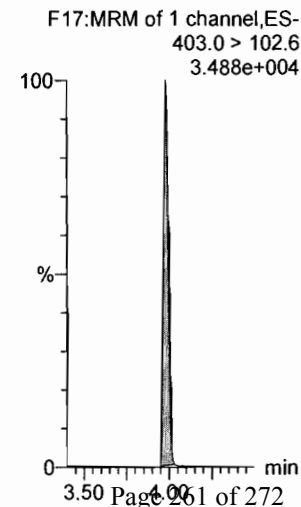
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

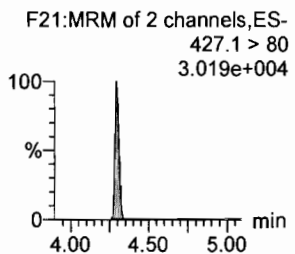
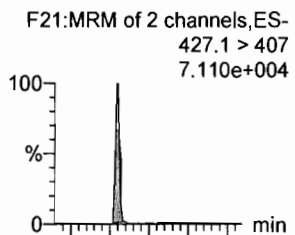


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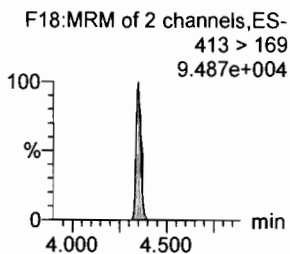
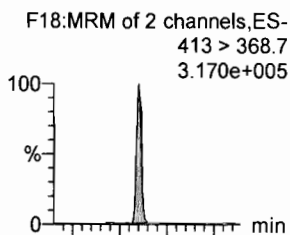
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Printed: Tuesday, December 26, 2017 12:09:42 Pacific Standard Time

Name: 171223M1_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

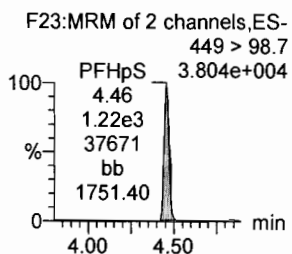
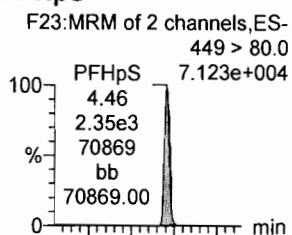
6:2 FTS



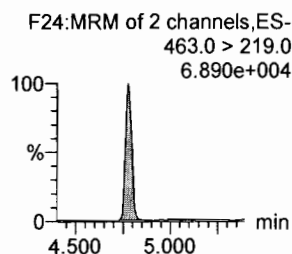
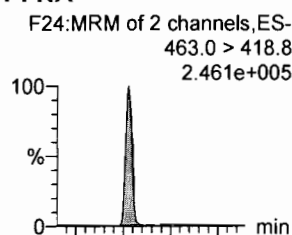
L-PFOA



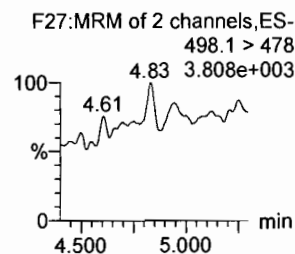
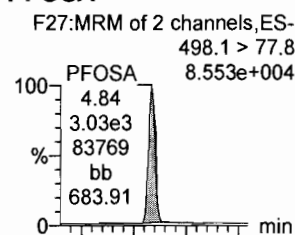
PFHpS



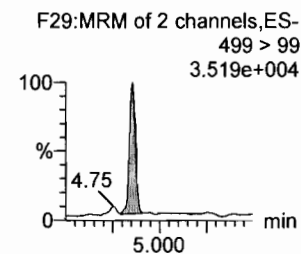
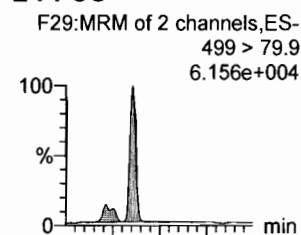
PFNA



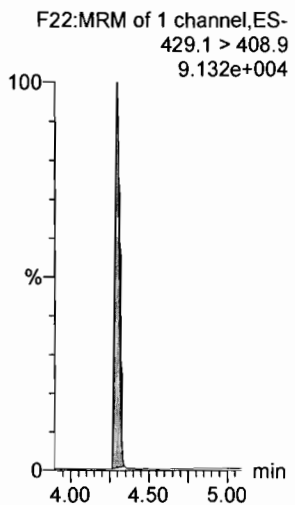
PFOSA



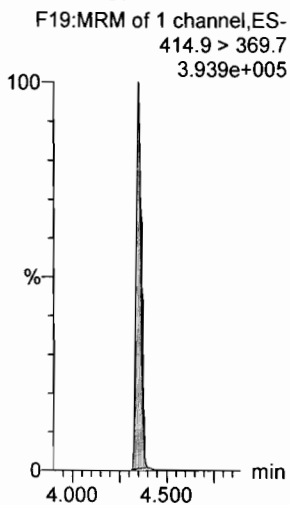
L-PFOS



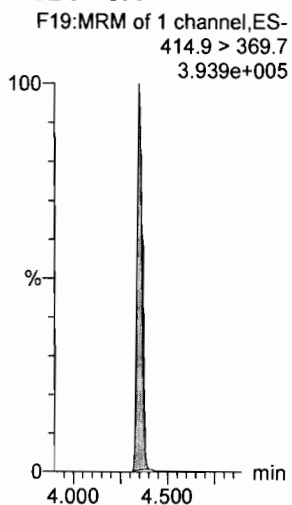
13C2-6:2 FTS



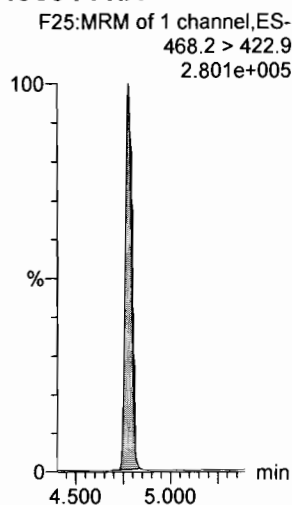
13C2-PFOA



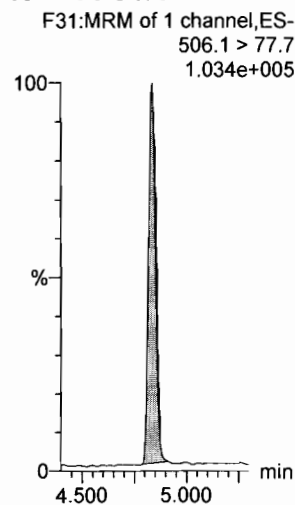
13C2-PFOA



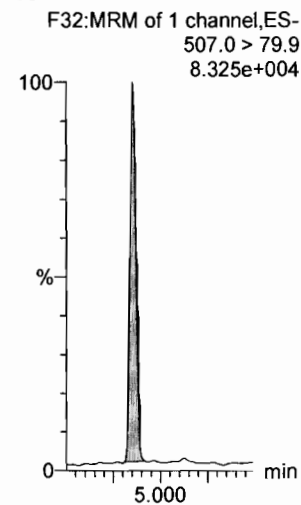
13C5-PFNA



13C8-PFOA



13C8-PFOS

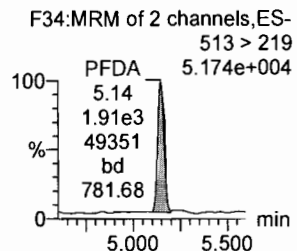
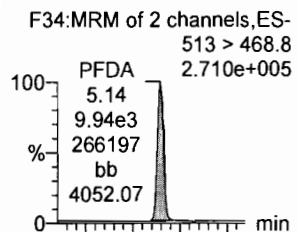


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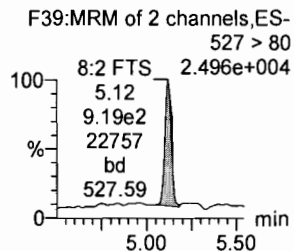
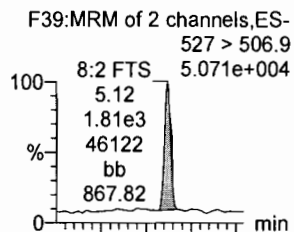
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Printed: Tuesday, December 26, 2017 12:09:42 Pacific Standard Time

Name: 171223M1_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

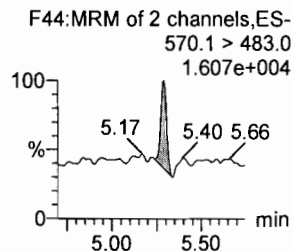
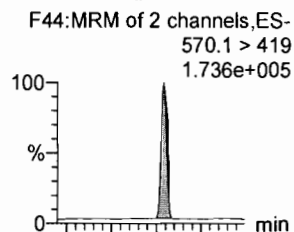
PFDA



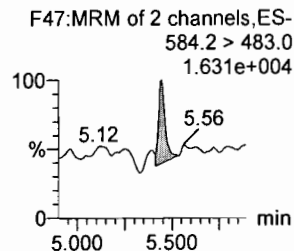
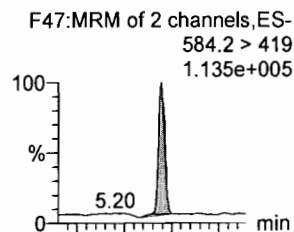
8:2 FTS



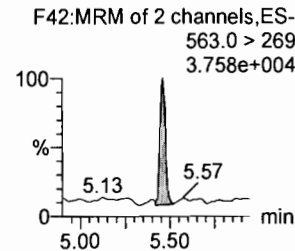
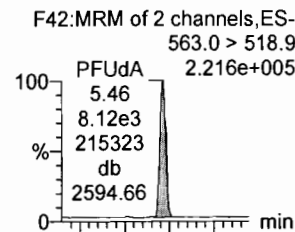
N-MeFOSAA



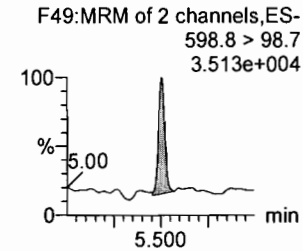
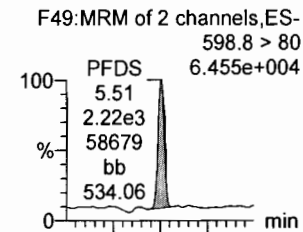
N-EtFOSAA



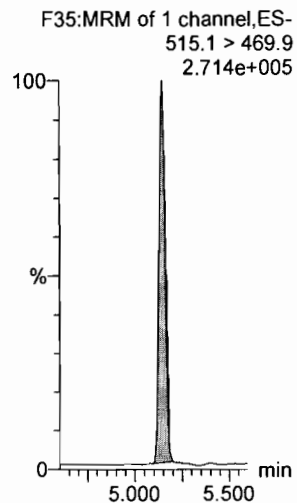
PFUdA



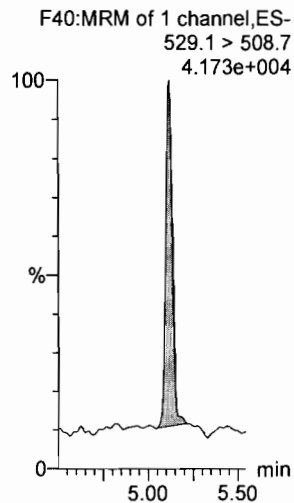
PFDS



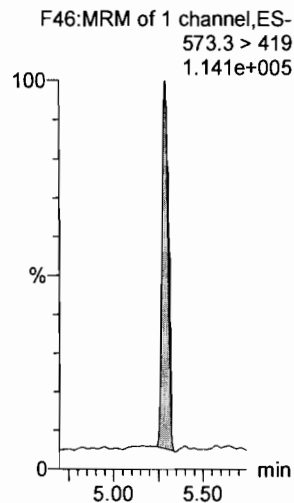
13C2-PFDA



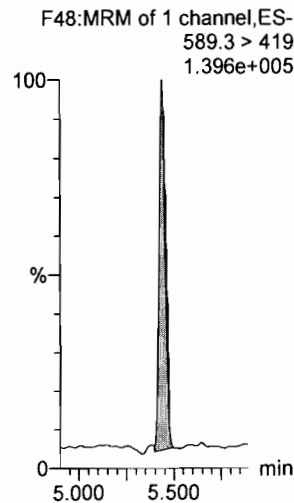
13C2-8:2 FTS



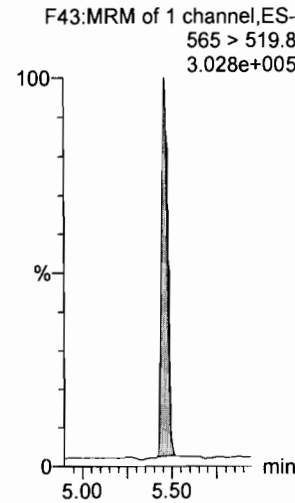
d3-N-MeFOSAA



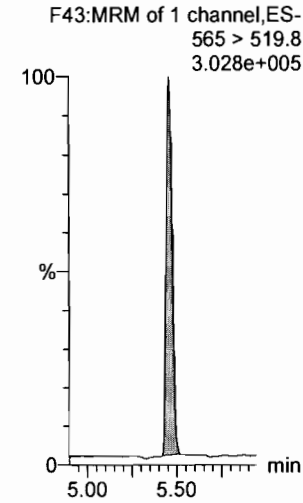
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



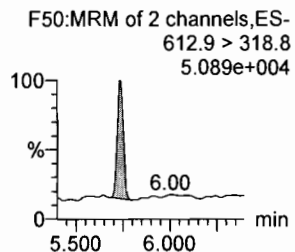
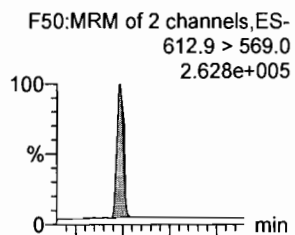
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Last Altered: Tuesday, December 26, 2017 12:09:00 Pacific Standard Time

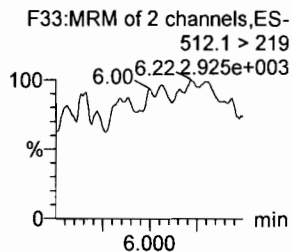
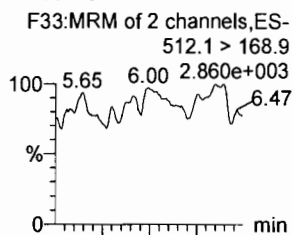
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Name: 171223M1_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

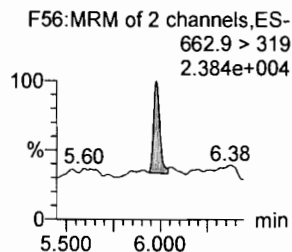
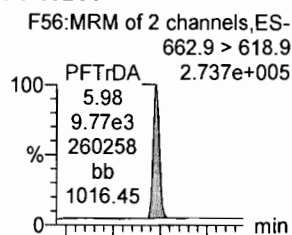
PFD_oA



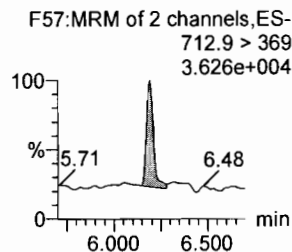
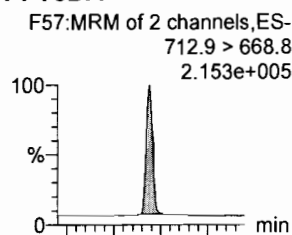
N-MeFOSA



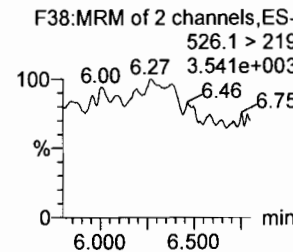
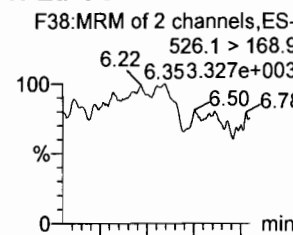
PFT_rDA



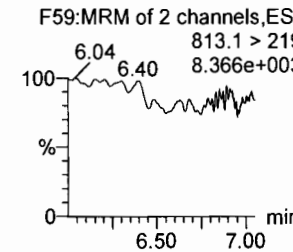
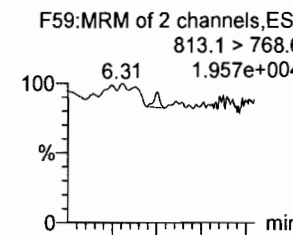
PFT_eDA



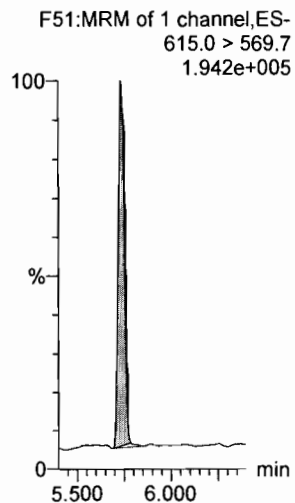
N-EtFOSA



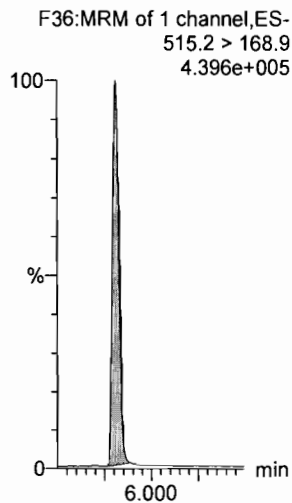
PFH_xDA



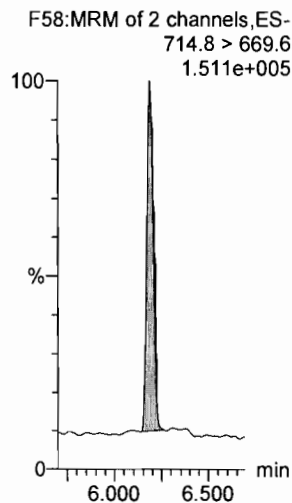
13C₂-PFD_oA



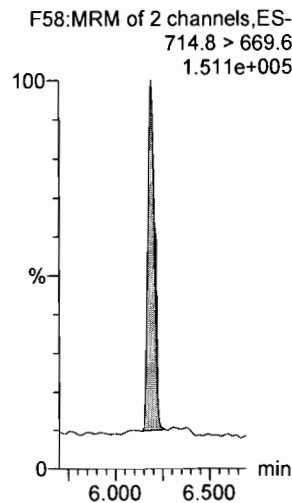
d₃-N-MeFOSA



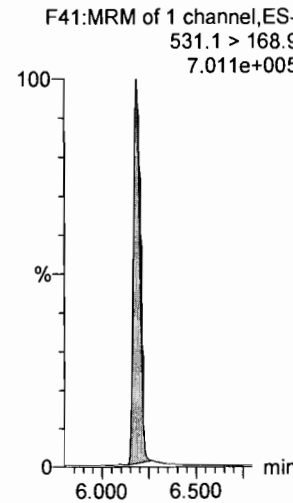
13C₂-PFT_eDA



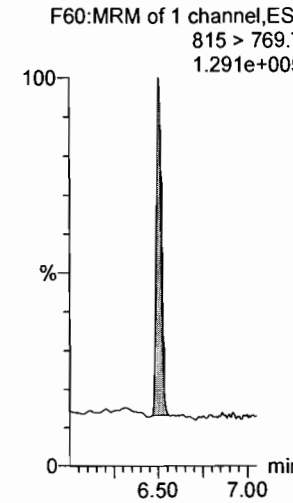
13C₂-PFT_rDA



d₅-N-ETFOSA



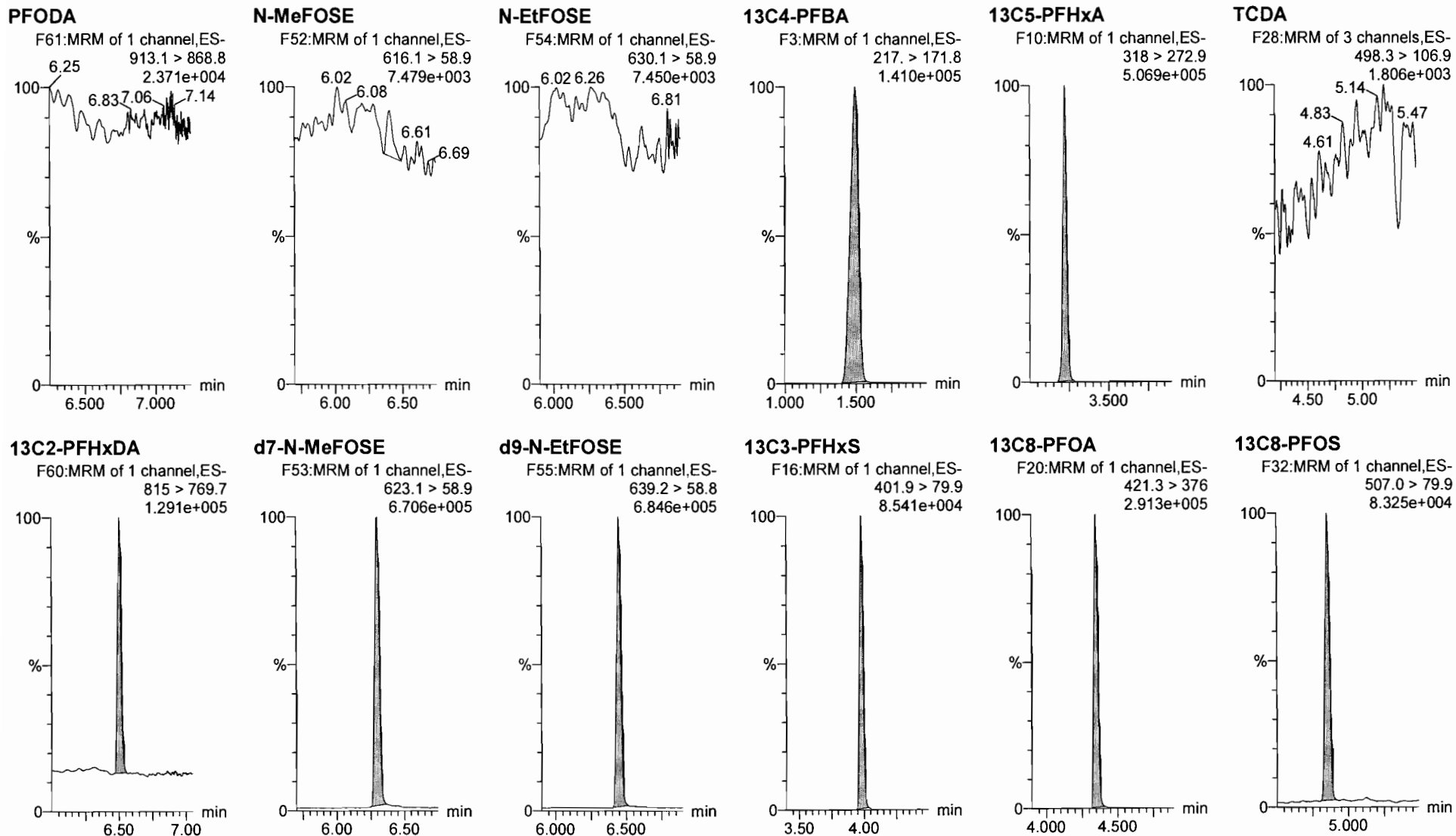
13C₂-PFH_xDA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-13.qld

Last Altered: Tuesday, December 26, 2017 12:09:00 Pacific Standard Time
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Name: 171223M1_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201



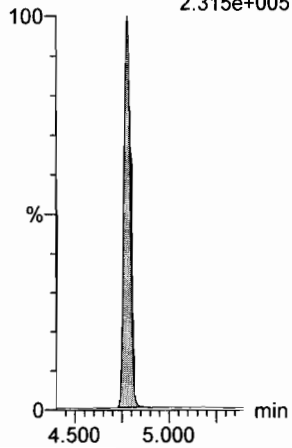
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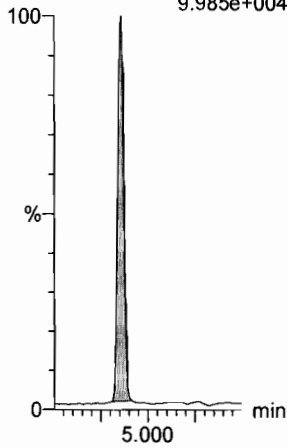
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.315e+005



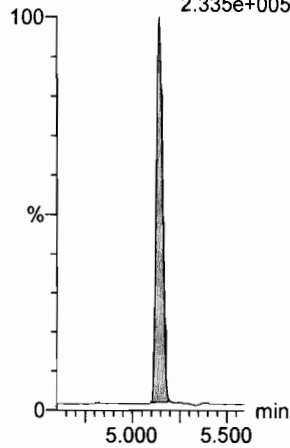
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
9.985e+004



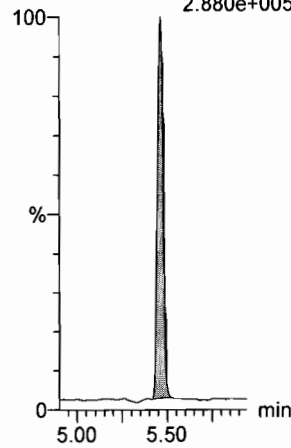
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.335e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.880e+005



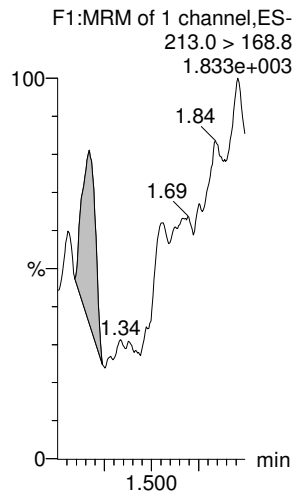
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Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

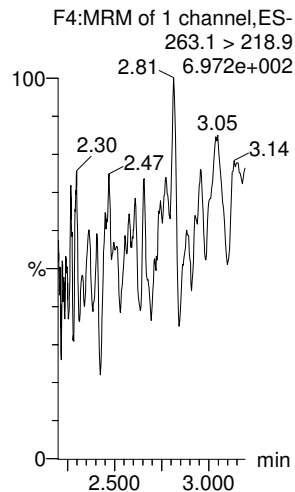
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-23-17_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

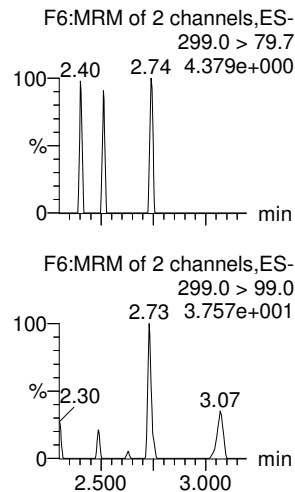
PFBA



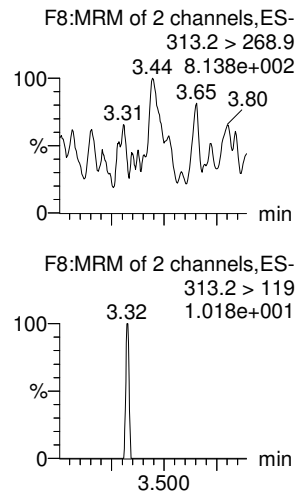
PFPeA



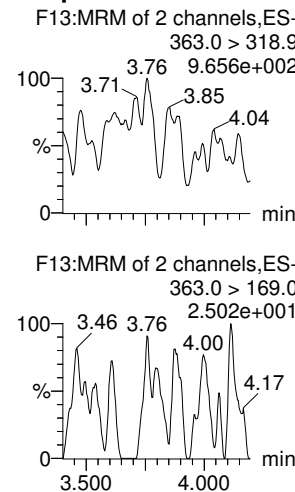
PFBS



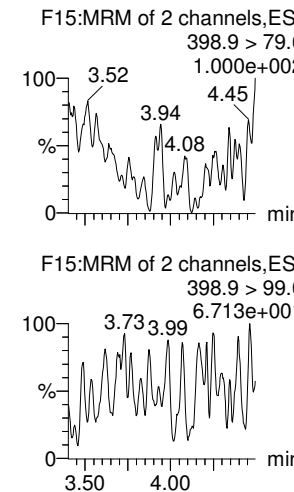
PFHxA



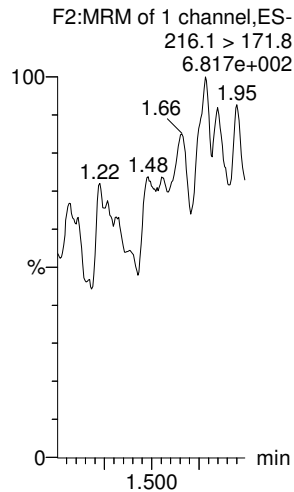
PFHpA



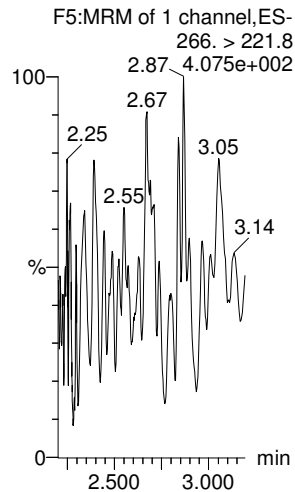
L-PFHxS



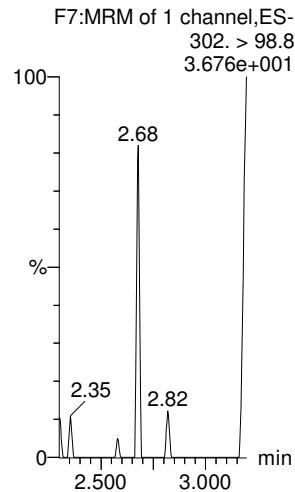
13C3-PFBA



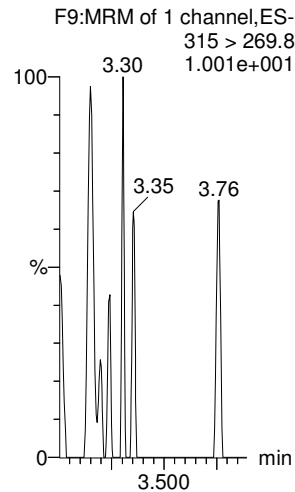
13C3-PFPeA



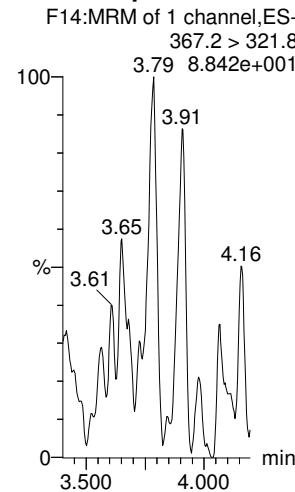
13C3-PFBS



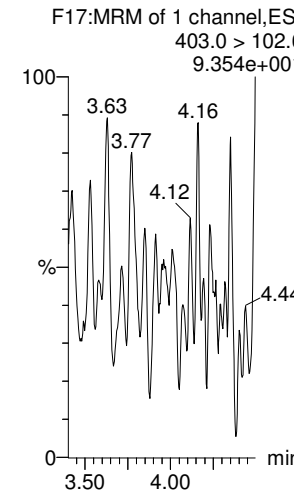
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\171223M1\171223M1-12.qld

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Name: 171223M1_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

6:2 FTS

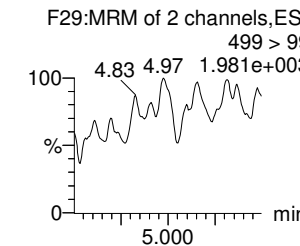
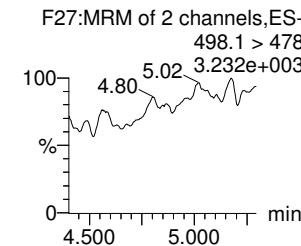
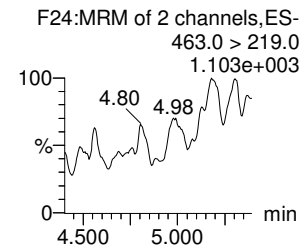
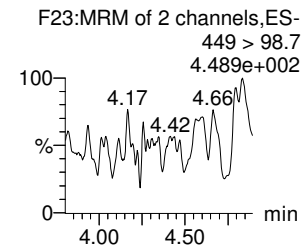
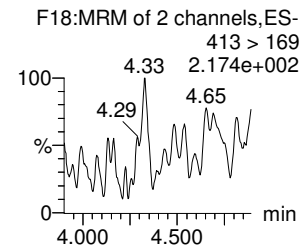
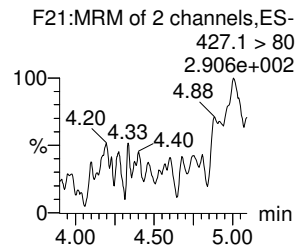
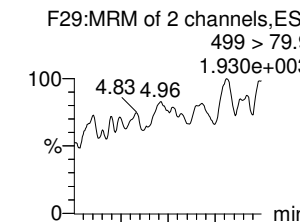
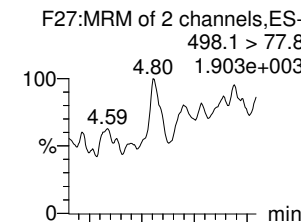
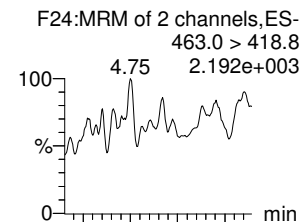
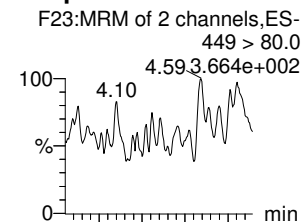
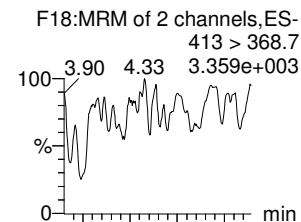
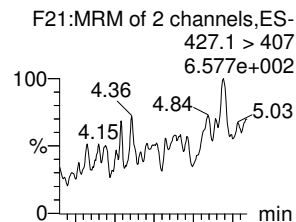
L-PFOA

PFHpS

PFNA

PFOSA

L-PFOS



13C2-6:2 FTS

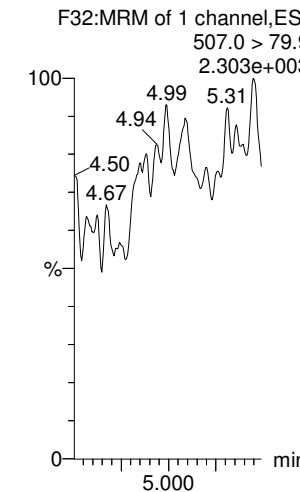
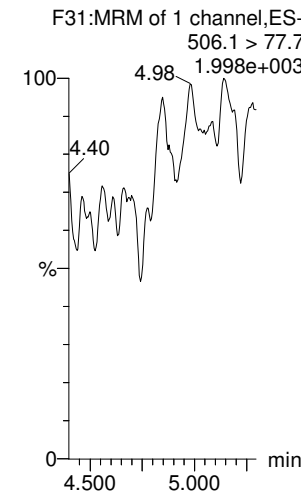
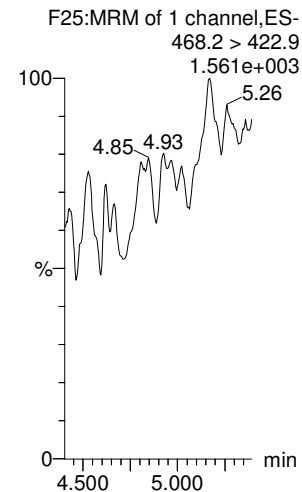
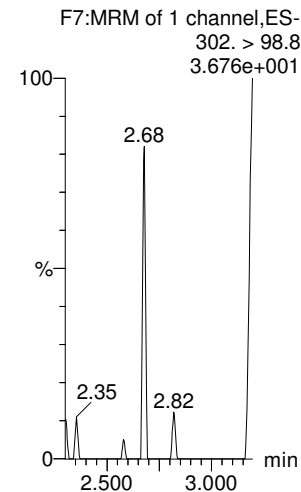
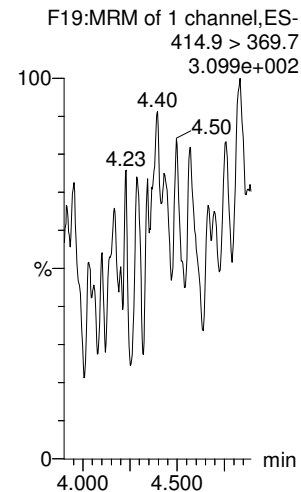
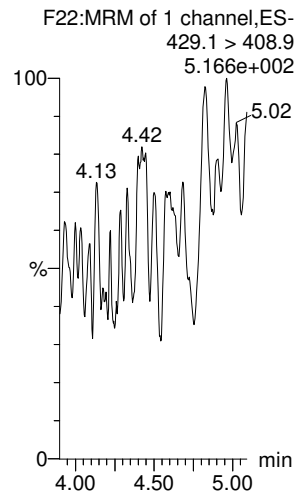
13C2-PFOA

13C3-PFBS

13C5-PFNA

13C8-PFOSA

13C8-PFOS



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PFDA

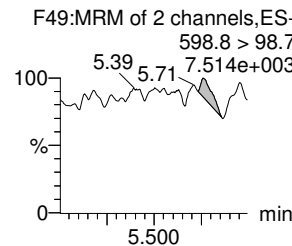
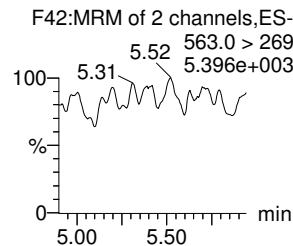
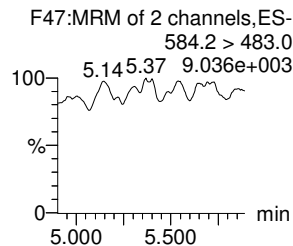
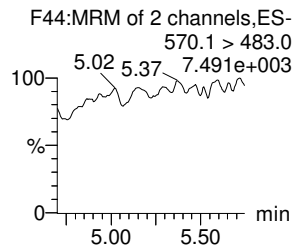
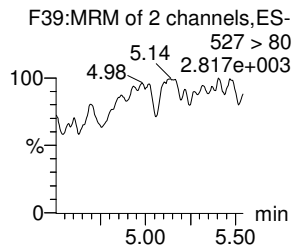
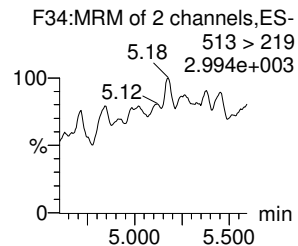
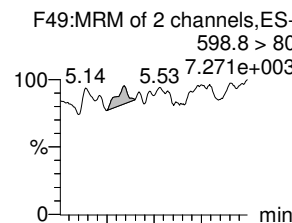
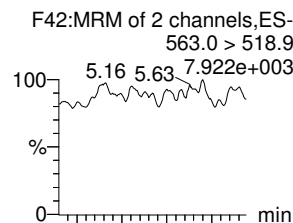
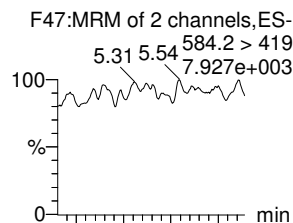
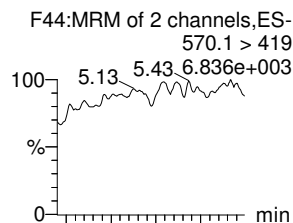
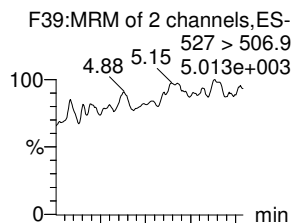
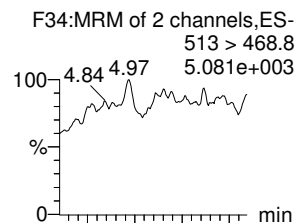
8:2 FTS

N-MeFOSAA

N-EtFOSAA

PFUdA

PFDS



13C2-PFDA

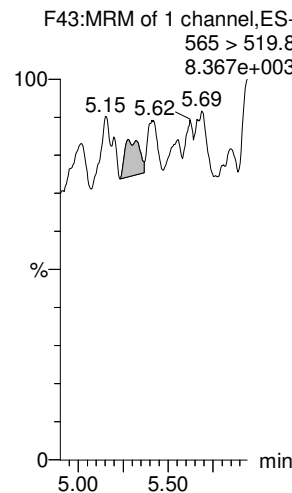
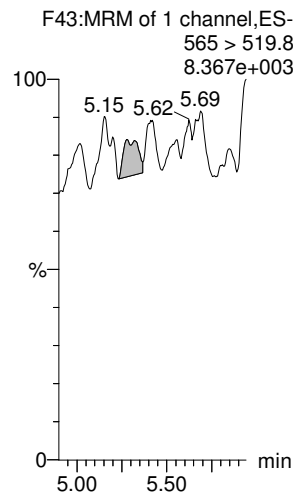
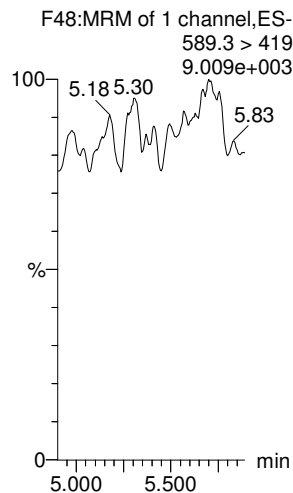
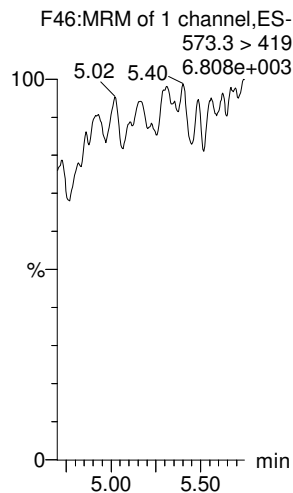
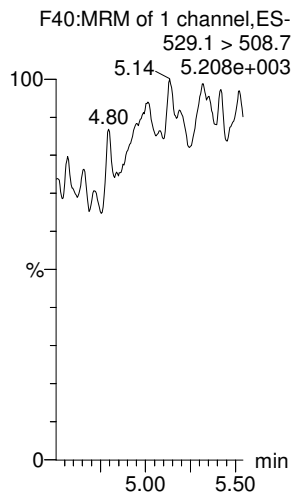
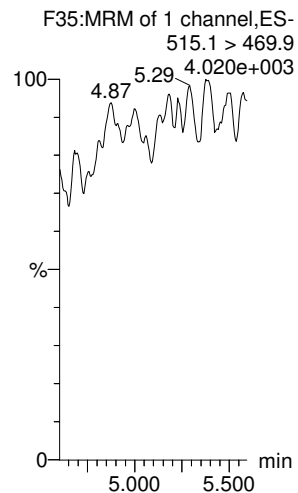
13C2-8:2 FTS

d3-N-MeFOSAA

d5-N-EtFOSAA

13C2-PFUdA

13C2-PFUdA



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Name: 171223M1_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

PFDoA

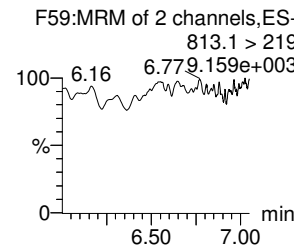
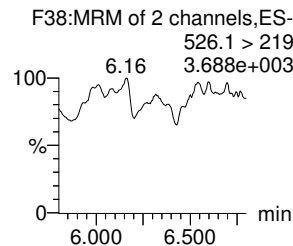
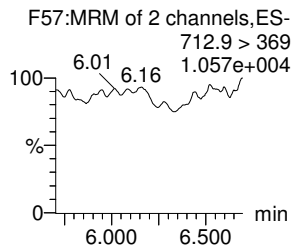
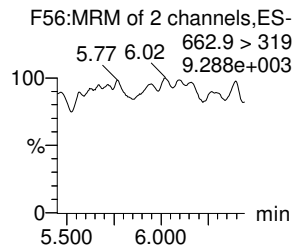
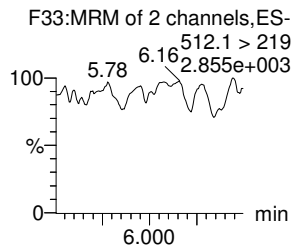
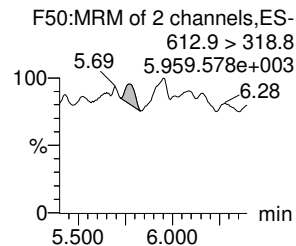
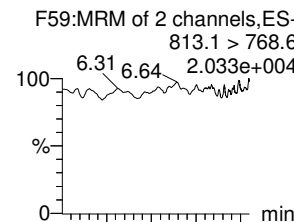
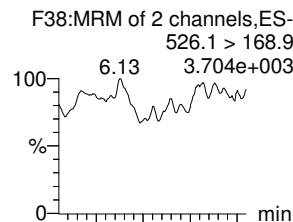
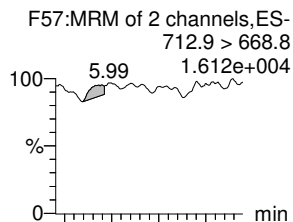
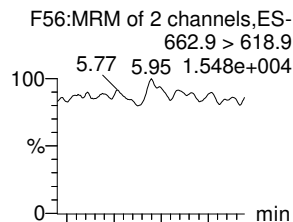
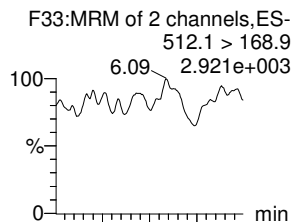
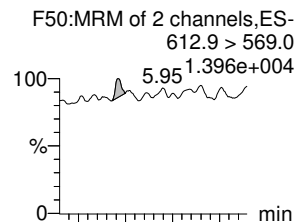
N-MeFOSA

PFTrDA

PFTeDA

N-EtFOSA

PFHxDA



13C2-PFDoA

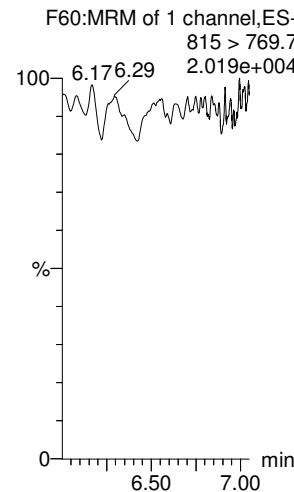
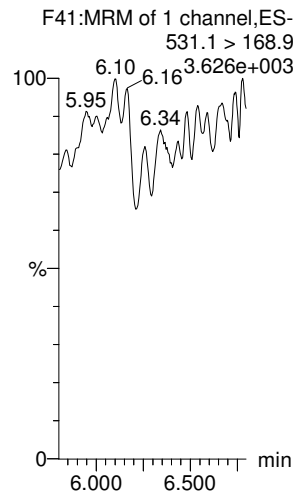
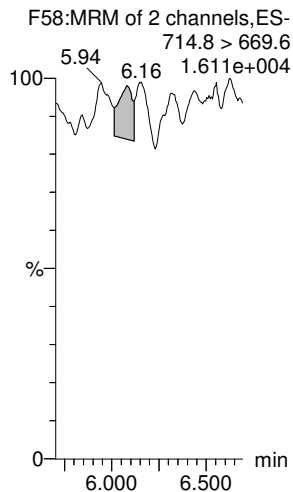
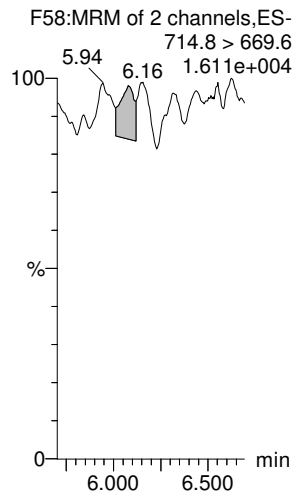
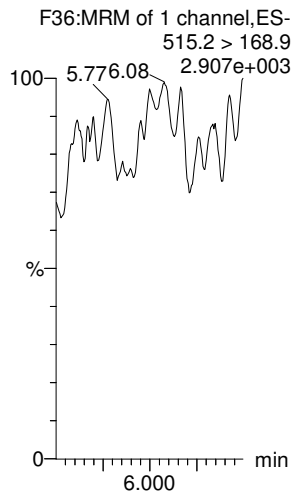
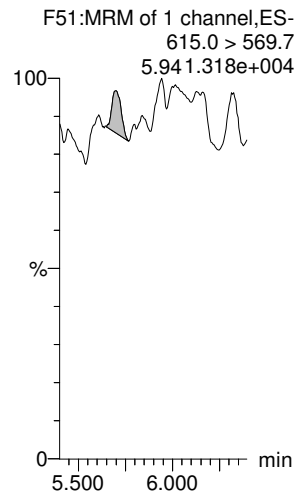
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13C2-PFTeDA

13C2-PFTeDA

d5-N-ETFOSA

13C2-PFHxDA

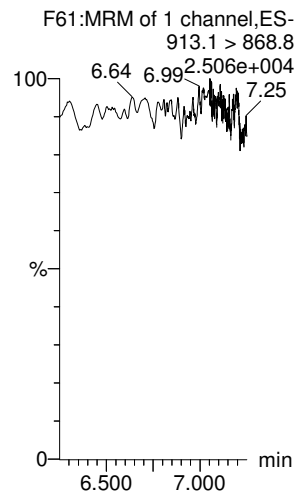


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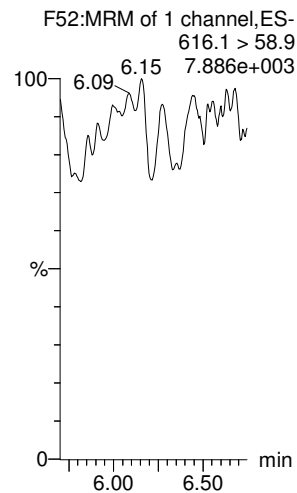
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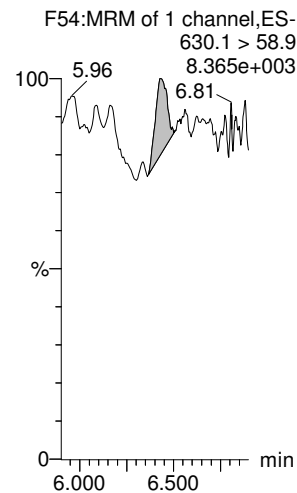
PFODA



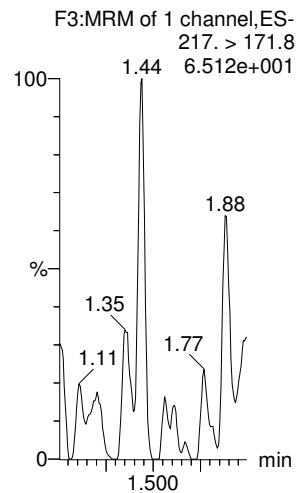
N-MeFOSE



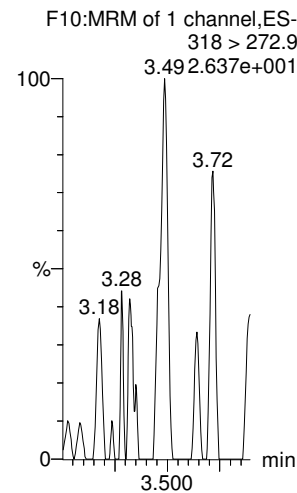
N-EtFOSE



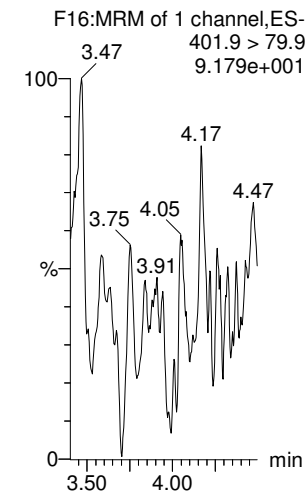
13C4-PFBA



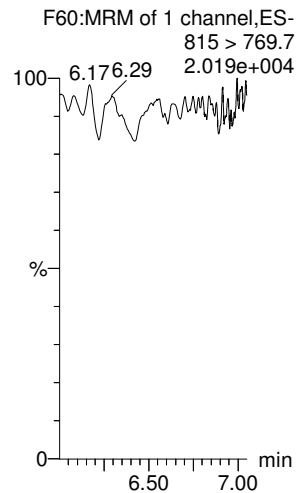
13C5-PFHxA



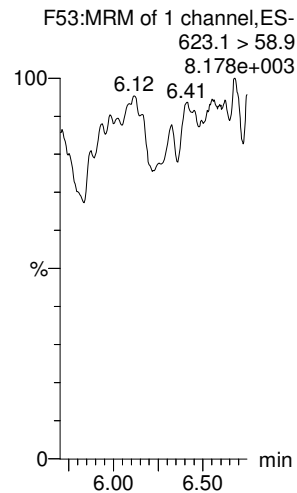
13C3-PFHxS



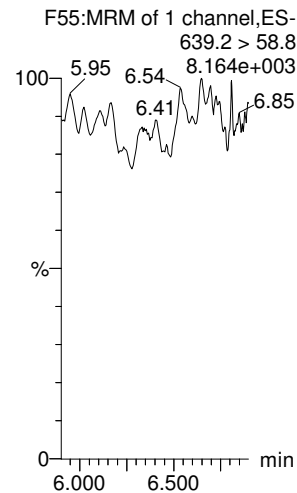
13C2-PFHxDA



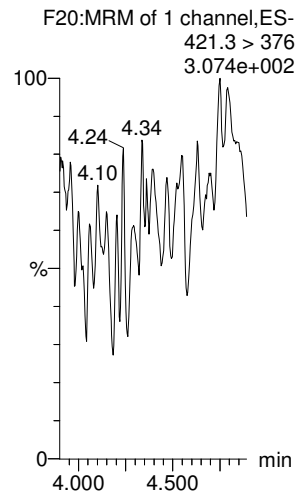
d7-N-MeFOSE



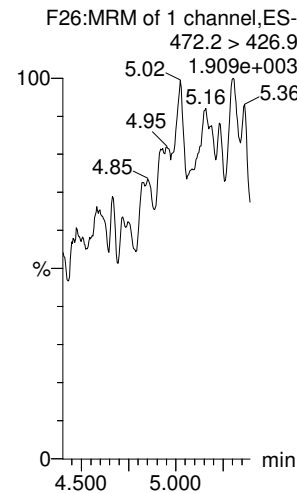
d9-N-EtFOSE



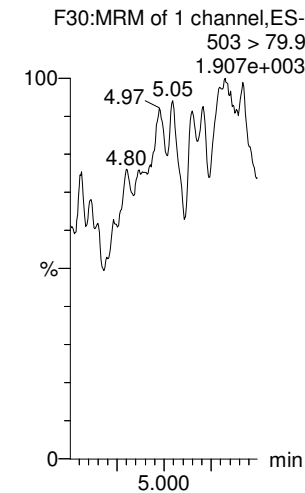
13C8-PFOA



13C9-PFNA



13C4-PFOS



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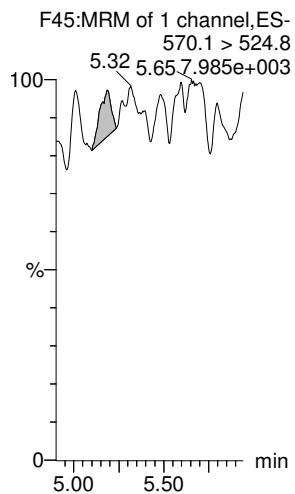
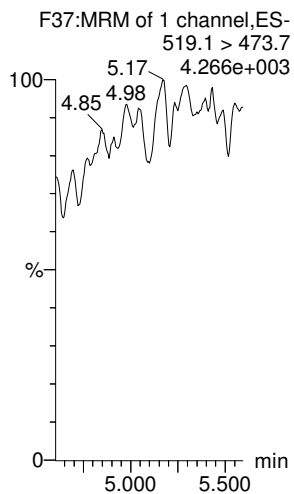
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13C6-PFDA

13C7-PFUdA



Contract ID	CTD Number	Phase	Installation ID	Sample Name	NCM Code	Analysis Group	Analyst Method	Lab Code	Lab Name	Sample Batch	Sample Base	Extraction Method	Result Type	Lab OC Type	Sample Medium	QC Level	Sample Volume Collected	Date Received	Analysis Date	Lab Pathway	Extraction Date	Analysis Date	Analysis Time	Lab Sample ID	Division	Run Number	Percent Moisture	Parent Lab	Chem Name	Analysis ID	Analysis Value	Original Analysis Value	Recall Limit	Lab Qualifier	Method Qualifier	QC Column Type	Analysis Result Type	Result Narrative	QC Control Limit Code	QC Accuracy Lipper	QC Accuracy Lower	QC Control Limit	QC Narrative	MSL	Detection Limit	QM Volume	SI	QOI	QOI	QOI	QOI	Analysis Batch	Validation Name	Exp Date
ND470000004041			BRINLEY ILLAND 348	480-4-1312	NDMS	SYGA	312_MSD	08G	VEVA	VEVA-ANAL-TCOM	0811	METHOD	000	MS	M	A	1206/2027 13.05	1206/2027	20171229	20180000	20171229	21:00:00	190180-13	1	000		Perfluorocyclohexane	190180-13	1.48	1.48	0.5	MS		MS		MS		190180-13	150		1.48	0.50							190180-13					
ND470000004042			BRINLEY ILLAND 348	480-4-1312	NDMS	SYGA	312_MSD	08G	VEVA	VEVA-ANAL-TCOM	0811	METHOD	000	MS	M	A	1206/2027 13.05	1206/2027	20171229	20180000	20171229	21:00:00	190180-13	1	000		Perfluorocyclohexane	190180-13	1.48	1.48	0.5	MS		MS		MS		190180-13	150		1.48	0.50							190180-13					
ND470000004043			BRINLEY ILLAND 348	480-4-1312	NDMS	SYGA	312_MSD	08G	VEVA	VEVA-ANAL-TCOM	0811	METHOD	000	MS	M	A	1206/2027 13.05	1206/2027	20171229	20180000	20171229	21:00:00	190180-13	1	000		Perfluorocyclohexane	190180-13	1.48	1.48	0.5	MS		MS		MS		190180-13	150		1.48	0.50							190180-13					
ND470000004044			BRINLEY ILLAND 348	480-4-1312	NDMS	SYGA	312_MSD	08G	VEVA	VEVA-ANAL-TCOM	0811	METHOD	000	MS	M	A	1206/2027 13.05	1206/2027	20171229	20180000	20171229	21:00:00	190180-13	1	000		Perfluorocyclohexane	190180-13	1.48	1.48	0.5	MS		MS		MS		190180-13	150		1.48	0.50							190180-13					
ND470000004045			BRINLEY ILLAND 348	480-4-1312	NDMS	SYGA	312_MSD	08G	VEVA	VEVA-ANAL-TCOM	0811	METHOD	000	MS	M	A	1206/2027 13.05	1206/2027	20171229	20180000	20171229	21:00:00	190180-13	1	000		Perfluorocyclohexane	190180-13	1.48	1.48	0.5	MS		MS		MS		190180-13	150		1.48	0.50							190180-13					

**DATA VALIDATION SUMMARY REPORT
NAS WHIDBEY ISLAND, WASHINGTON**

Client: CH2M HILL, Inc., Corvallis, Oregon
SDG: 1701882
Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
Site: NAS Whidbey Island, Area 6, CTO-4041, Washington
Date: May 12, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	WI-A06-6-I-01-1217	1701882-01	Water
3	WI-A06-EB01-120517	1701882-03	Water
5	WI-A06-EB02-120517	1701882-05	Water
7	WI-A06-EFF01-1217	1701882-07	Water
9	WI-A06-EFF01P-1217	1701882-09	Water
11	WI-A06-INF01-1217	1701882-11	Water
13	WI-A06-P-4-1217	1701882-13	Water
15	WI-A06-6-I-03-1217	1701882-15	Water

A full data validation was performed on the analytical data for six water samples and two aqueous equipment blank samples collected on December 5-6, 2017 by CH2M HILL at the NAS Whidbey Island Area 6 site in Washington. The samples were analyzed under the EPA Method “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”.

Specific method references are as follows:

Analysis
PFCs

Method References
USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA “Contract Laboratories Program National Functional Guidelines for Superfund Organic Methods Data Review,” January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Date Completeness, Case Narrative & Custody Documentation

- Holding times
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

Data Usability Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes. There were no qualifications.

Perfluorinated Compounds (PFCs)

Data Completeness, Case Narrative & Custody Documentation

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC sample result are summarized in the table below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WI-A06-EB01-120517	None - ND	-	-	-
WI-A06-EB02-120517	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

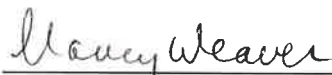
- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

PFCs				
Compound	WI-A06-EFF01-1217 ng/L	WI-A06-EFF01p-1217 ng/L	RPD	Qualifier
PFBS	10.5	10.0	5%	None
PFHxA	40.7	37.4	8%	
PFHpA	11.8	11.3	4%	
PFHxS	43.0	49.2	13%	
PFOA	35.8	28.6	22%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: 
Nancy Weaver
Senior Chemist

Dated: 5/15/18

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Sample ID: WI-A06-6-1-01-1217

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-01	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FIFS	Date Collected: 05-Dec-17 14:45	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.93	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHxA	ND	2.36	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHpA	ND	0.639	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFHxS	ND	1.02	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOA	1.09	0.703	5.39	8.64	J	B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFOS	ND	0.872	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFNA	ND	0.875	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFDA	ND	1.61	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
MeFOSAA	ND	1.78	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFUnA	ND	1.13	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
EiFOSAA	ND	1.48	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFDoA	ND	0.856	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFTrDA	ND	0.534	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
PFTeDA	ND	0.816	5.39	8.64		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	115	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C2-PFHxA	IS	109	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C4-PFHpA	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
18O2-PFHxS	IS	92.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C2-PFOA	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C8-PFOS	IS	112	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C5-PFNA	IS	109	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C2-PFDA	IS	98.0	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
d3-MeFOSAA	IS	114	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C2-PFUnA	IS	97.8	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
d5-EiFOSAA	IS	125	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C2-PFDoA	IS	105	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	
13C2-PFTeDA	IS	96.0	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 16:18	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 51.21.8

Sample ID: W1-A06-EB01-120517

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-03	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FLFS	Date Collected: 05-Dec-17 08:40	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.94	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHxA	ND	2.37	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHpA	ND	0.642	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFHxS	ND	1.03	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOA	ND	0.707	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFOS	ND	0.876	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFNA	ND	0.879	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFDA	ND	1.62	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
MeFOSAA	ND	1.79	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFUnA	ND	1.14	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
EtFOSAA	ND	1.49	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFDoA	ND	0.860	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFTrDA	ND	0.536	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
PFTeDA	ND	0.820	5.43	8.69		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	105	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C2-PFHxA	IS	108	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C4-PFHpA	IS	119	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
18O2-PFHxS	IS	121	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C2-PFOA	IS	116	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C8-PFOS	IS	93.0	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C5-PFNA	IS	111	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C2-PFDA	IS	89.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
d3-MeFOSAA	IS	116	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C2-PFUnA	IS	85.5	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
d5-EtFOSAA	IS	118	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C2-PFDoA	IS	108	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	
13C2-PFTeDA	IS	110	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:29	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 51.2618

Sample ID: WI-A06-EB02-120517

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-05	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected: 05-Dec-17 16:20	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.89	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHxA	ND	2.30	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHpA	ND	0.623	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFHxS	ND	0.999	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFOA	ND	0.687	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFOS	ND	0.851	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFNA	ND	0.854	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFDA	ND	1.57	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
MeFOSAA	ND	1.74	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFUnA	ND	1.11	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
EiFOSAA	ND	1.44	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFDoA	ND	0.835	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFTnDA	ND	0.521	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
PFTeDA	ND	0.796	5.25	8.44		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	117	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C2-PFHxA	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C4-PFHpA	IS	116	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
18O2-PFHxS	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C2-PFOA	IS	114	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C8-PFOS	IS	89.2	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C5-PFNA	IS	93.1	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C2-PFDA	IS	92.8	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
d3-MeFOSAA	IS	70.7	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C2-PFUnA	IS	69.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
d5-EiFOSAA	IS	86.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C2-PFDoA	IS	74.3	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	
13C2-PFTeDA	IS	73.1	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 16:40	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 51.2118

Sample ID: WI-A06-EFF01-1217

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-07	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FIFS	Date Collected: 05-Dec-17 12:10	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.5	1.94	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHxA	40.7	2.36	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHpA	11.8	0.640	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFHxS	43.0	1.03	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOA	35.8	0.705	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFOS	ND	0.874	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFNA	ND	0.877	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFDA	ND	1.61	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
MeFOSAA	ND	1.79	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFUnA	ND	1.14	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
EtFOSAA	ND	1.48	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFDoA	ND	0.858	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFTrDA	ND	0.535	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
PFTeDA	ND	0.818	5.43	8.66		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBs	IS	98.2	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C2-PFHxA	IS	98.6	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C4-PFHpA	IS	98.9	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
18O2-PFHxS	IS	121	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C2-PFOA	IS	109	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C8-PFOS	IS	105	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C5-PFNA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C2-PFDA	IS	92.2	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
d3-MeFOSAA	IS	101	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C2-PFUnA	IS	92.5	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
d5-EtFOSAA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C2-PFDoA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	
13C2-PFTeDA	IS	90.4	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 16:51	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

mw 51,218

Sample ID: WI-A06-EFF01P-1217

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-09	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FLFS	Date Collected: 05-Dec-17 12:10	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.0	1.93	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHxA	37.4	2.35	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHpA	11.3	0.637	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFHxS	49.2	1.02	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOA	28.6	0.702	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFOS	ND	0.870	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFNA	ND	0.873	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFDA	ND	1.61	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
MeFOSAA	ND	1.78	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFUnA	ND	1.13	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
EtFOSAA	ND	1.48	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFDoA	ND	0.854	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFTrDA	ND	0.533	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
PFTeDA	ND	0.814	5.39	8.63		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	92.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C2-PFHxA	IS	104	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C4-PFHpA	IS	93.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
18O2-PFHxS	IS	102	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C2-PFOA	IS	130	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C8-PFOS	IS	94.2	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C5-PFNA	IS	88.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C2-PFDA	IS	77.1	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
d3-MeFOSAA	IS	103	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C2-PFUnA	IS	110	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
d5-EtFOSAA	IS	97.4	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C2-PFDoA	IS	126	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	
13C2-PFTeDA	IS	116	50 - 150		B7L0138	19-Dec-17	0.116 L	23-Dec-17 17:03	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 LCL-UCL- Lower control limit - upper control limit
 Results: reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

see 51.2.1.8

Sample ID: WI-A06-INF01-1217

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-11	Column: BEH C18
Project: WHIDBEEY ISLAND / 695610.05.FLFS	Date Collected: 05-Dec-17 12:15	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.6	1.95	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHxA	39.5	2.38	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHpA	11.3	0.645	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFHxS	45.7	1.03	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOA	35.1	0.710	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFOS	ND	0.880	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFNA	ND	0.884	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFDA	ND	1.63	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
MeFOSAA	ND	1.80	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFUnA	ND	1.15	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
EtFOSAA	ND	1.49	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFDoA	ND	0.864	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFTrDA	ND	0.539	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
PFTeDA	ND	0.824	5.43	8.73		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	102	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C2-PFHxA	IS	103	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C4-PFHpA	IS	112	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
18O2-PFHxS	IS	112	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C2-PFOA	IS	104	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C8-PFOS	IS	91.6	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C5-PFNA	IS	82.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C2-PFDA	IS	104	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
d3-MeFOSAA	IS	96.0	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C2-PFUnA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
d5-EtFOSAA	IS	90.7	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C2-PFDoA	IS	113	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	
13C2-PFTeDA	IS	115	50 - 150		B7L0138	19-Dec-17	0.115 L	23-Dec-17 17:14	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL- Lower control limit - upper control limit
 Results: reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

AW 51.2.1.8

Sample ID: WI-A06-P-4-1217

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-13	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.F1.F5	Date Collected: 05-Dec-17 10:50	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	9.73	1.88	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHxA	34.3	2.29	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHpA	11.9	0.622	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFHxS	35.0	0.996	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFOA	58.2	0.685	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFOS	ND	0.849	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFNA	1.49	0.852	5.25	8.42	J	B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFDA	ND	1.57	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
MeFOSAA	ND	1.74	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFUnA	ND	1.10	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
EtFOSAA	ND	1.44	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFDoA	ND	0.833	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFTrDA	ND	0.520	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
PFTeDA	ND	0.794	5.25	8.42		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	107	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C2-PFHxA	IS	111	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C4-PFHpA	IS	101	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
18O2-PFHxS	IS	109	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C2-PFOA	IS	111	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C8-PFOS	IS	118	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C5-PFNA	IS	89.7	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C2-PFDA	IS	127	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
d3-MeFOSAA	IS	97.4	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C2-PFUnA	IS	75.0	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
d5-EtFOSAA	IS	90.4	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C2-PFDoA	IS	95.5	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	
13C2-PFTeDA	IS	85.8	50 - 150		B7L0138	19-Dec-17	0.119 L	23-Dec-17 17:25	1	

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of Quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

new standard

Sample ID: WI-A06-6-I-03-1217

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701882-15	Column: BEH C18
Project: WHIDBEEY ISLAND / 695610.05.FI.FS	Date Collected: 06-Dec-17 10:35	Date Received: 07-Dec-17 09:23	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	2.04	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHxA	ND	2.48	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHpA	ND	0.673	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFHxS	ND	1.08	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFOA	ND	0.741	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFOS	ND	0.919	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFNA	ND	0.922	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFDA	ND	1.70	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
MeFOSAA	ND	1.88	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFUnA	ND	1.20	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
EtFOSAA	ND	1.56	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFDoA	ND	0.902	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFTrDA	ND	0.563	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
PFTeDA	ND	0.860	5.68	9.11		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	105	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFHxA	IS	98.7	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C4-PFHpA	IS	97.8	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
18O2-PFHxS	IS	132	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFOA	IS	102	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C8-PFOS	IS	114	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C5-PFNA	IS	85.8	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFDA	IS	97.6	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
d3-MeFOSAA	IS	101	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFUnA	IS	80.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
d5-EtFOSAA	IS	84.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFDoA	IS	75.3	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1
13C2-PFTeDA	IS	84.0	50 - 150		B7L0138	19-Dec-17	0.110 L	23-Dec-17 17:36	1

DL - Detection Limit
 LOD - Limit of Detection
 LOQ - Limit of quantitation
 LCL-UCL - Lower control limit - upper control limit
 Results reported to the DL.
 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

per 51.2.6B

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	SAMPLE_MATRIX_DESC	SAMPLE_NAME	SAMPLE_MATRIX	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	SAMPLE_MATRIX_DESC	SAMPLE_NAME	SAMPLE_MATRIX	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	SAMPLE_MATRIX_DESC	SAMPLE_NAME	SAMPLE_MATRIX	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217	WG	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	SAMPLE_MATRIX_DESC	SAMPLE_NAME	SAMPLE_MATRIX	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	SAMPLE_MATRIX_DESC	SAMPLE_NAME	SAMPLE_MATRIX	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
INFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200625. 89	488583.5 8	Ground water influent (into system)	WI-A06-INF01- 1217-TOP	WI	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	SAMPLE_MATRIX_DESC	SAMPLE_NAME	SAMPLE_MATRIX	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-01	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200742	487502.9	Ground water	WI-A06-6-I-01- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	SAMPLE_MATRIX_DESC	SAMPLE_NAME	SAMPLE_MATRIX	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-I-03	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701882	1200388	486351.6	Ground water	WI-A06-6-I-03- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds

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P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
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P4	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	PZ	Piezometer	1701882	1200590	488890	Ground water	WI-A06-P-4- 1217-TOP	WG	05-Dec-17	Perfluoroalkyl Compounds
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EFFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200705. 81	488599.5 6	Ground water effluent (from system)	WI-A06-EFF01P- 1217	WR	05-Dec-17	Perfluoroalkyl Compounds
EFFL-PMP-TREAT	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	OUTFALL	Outfall	1701882	1200705. 81	488599.5 6	Ground water effluent (from system)	WI-A06-EFF01P- 1217	WR	05-Dec-17	Perfluoroalkyl Compounds
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