



**Groundwater Sample Results,  
Level 2 Laboratory Report, Level 4 Laboratory Report,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Report, SDG 1701911**

*Naval Air Station Whidbey Island  
Oak Harbor, Washington*

June 2019

December 29, 2017

**Vista Work Order No. 1701911**

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 09, 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](mailto:mmaier@vista-analytical.com).

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

Sincerely,

Martha Maier  
Laboratory Director



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

## **Vista Work Order No. 1701911**

### **Case Narrative**

#### **Sample Condition on Receipt:**

Twenty two 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 eleven of the samples; the results will be reported under separate cover.

#### **Analytical Notes:**

##### **Modified EPA Method 537**

Samples "WI-A06-6-S-07-1217", "WI-A06-6-S-26-1217", "WI-A06-MW-10-1217" and "WI-A06-6-S-14-1217" 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 Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The OPR recoveries were within the method acceptance criteria

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

As requested, an MS/MSD was performed on sample "WI-A06-6-S-07-1217". The MS/MSD recoveries and/or RPDs were out of the criteria for PFTeDA.

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701911-01	WI-A06-6-S-17-1217	06-Dec-17 13:05	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-02	WI-A06-6-S-17-1217-TOP	06-Dec-17 13:05	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-03	WI-A06-EB03-120617	06-Dec-17 15:20	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-04	WI-A06-EB03-120617-TOP	06-Dec-17 15:20	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-05	WI-A06-6-S-07-1217	MS/MSD07-Dec-17 11:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-06	WI-A06-6-S-07-1217-TOP	MS/MSD07-Dec-17 11:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-07	WI-A06-6-S-26-1217	07-Dec-17 13:40	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-08	WI-A06-6-S-26-1217-TOP	07-Dec-17 13:40	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-09	WI-A06-EB04-120717	07-Dec-17 13:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-10	WI-A06-EB04-120717-TOP	07-Dec-17 13:50	09-Dec-17 10:05	HDPE Bottle, 125 mL

Vista Project: 1701911

Client Project: WHIDBEY ISLAND / 695610.05.FI.FS

# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701911-10	WI-A06-EB04-120717-TOP	07-Dec-17 13:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-11	WI-A06-EB05-120717	07-Dec-17 14:30	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-12	WI-A06-EB05-120717-TOP	07-Dec-17 14:30	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-13	WI-A06-FB01-120717	07-Dec-17 14:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-14	WI-A06-FB01-120717-TOP	07-Dec-17 14:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-15	WI-A06-MW-10-1217	07-Dec-17 09:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-16	WI-A06-MW-10-1217-TOP	07-Dec-17 09:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-17	WI-A06-6-S-14-1217	08-Dec-17 13:10	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-18	WI-A06-6-S-14-1217-TOP	08-Dec-17 13:10	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-19	WI-A06-6-S-44-1217	08-Dec-17 10:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-20	WI-A06-6-S-44-1217-TOP	08-Dec-17 10:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-21	WI-A06-EB06-120817	08-Dec-17 14:00	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-22	WI-A06-EB06-120817-TOP	08-Dec-17 14:00	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL

## **ANALYTICAL RESULTS**

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

<b>Client Data</b>				<b>Laboratory Data</b>			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0145-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		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFHxA	ND	2.18	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFHpA	ND	0.591	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFHxS	ND	0.947	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFOA	0.716	0.651	5.00	8.00	J	B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFOS	ND	0.807	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFNA	ND	0.810	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFDA	ND	1.49	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
MeFOSAA	ND	1.65	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFUnA	ND	1.05	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
EtFOSAA	ND	1.37	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFDoA	ND	0.792	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFTrDA	ND	0.494	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFTeDA	ND	0.755	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	94.1	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFHxA	IS	93.4	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C4-PFHpA	IS	106	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
18O2-PFHxS	IS	105	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFOA	IS	96.0	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C8-PFOS	IS	98.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C5-PFNA	IS	72.3	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFDA	IS	85.3	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
d3-MeFOSAA	IS	59.0	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFUnA	IS	55.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
d5-EtFOSAA	IS	54.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFDoA	IS	57.2	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFTeDA	IS	62.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	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: OPR**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0145-BS1	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS						

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	68.8	80.0	86.0	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFHxA	70.5	80.0	88.2	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFHpA	58.9	80.0	73.6	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFHxS	68.1	80.0	85.1	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFOA	72.5	80.0	90.6	70-130	B	B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFOS	86.9	80.0	109	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFNA	65.2	80.0	81.5	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFDA	69.7	80.0	87.1	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
MeFOSAA	70.1	80.0	87.6	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFOA	85.4	80.0	107	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
EtFOSAA	84.3	80.0	105	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFDaA	84.9	80.0	106	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFTrDA	79.7	80.0	99.6	60-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFTeDA	80.1	80.0	100	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	122	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFHxA	IS	110	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C4-PFHpA	IS	117	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
18O2-PFHxS	IS	120	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFOA	IS	109	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C8-PFOS	IS	112	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C5-PFNA	IS	103	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFDA	IS	93.5	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
d3-MeFOSAA	IS	89.6	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFUnA	IS	80.4	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
d5-EtFOSAA	IS	84.8	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFDaA	IS	71.6	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFTeDA	IS	82.9	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1

Sample ID: WI-A06-6-S-17-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-01	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	06-Dec-17 13:05	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHxA	ND	2.29	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHpA	ND	0.620	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHxS	ND	0.994	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFOA	1.82	0.683	5.25	8.39	J, B	B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFOS	ND	0.847	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFNA	ND	0.850	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFDA	ND	1.56	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
MeFOSAA	ND	1.73	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFUnA	ND	1.10	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
EtFOSAA	ND	1.44	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFDoA	ND	0.831	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFTrDA	ND	0.518	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFTeDA	ND	0.792	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	87.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFHxA	IS	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C4-PFHpA	IS	95.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
18O2-PFHxS	IS	98.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFOA	IS	83.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C8-PFOS	IS	78.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C5-PFNA	IS	80.1	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFDA	IS	74.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
d3-MeFOSAA	IS	85.8	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFUnA	IS	97.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
d5-EtFOSAA	IS	83.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFDoA	IS	138	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFTeDA	IS	118	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	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-EB03-120617**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-03	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	06-Dec-17 15:20	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHxA	ND	2.33	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHpA	ND	0.631	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHxS	ND	1.01	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOA	ND	0.695	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOS	ND	0.862	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFNA	ND	0.865	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFDA	ND	1.59	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
MeFOSAA	ND	1.76	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOxA	ND	1.12	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
EtFOSAA	ND	1.46	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOxA	ND	0.846	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFTeDA	ND	0.528	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFTeDA	ND	0.806	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	84.3	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFHxA	IS	90.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C4-PFHpA	IS	101	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
18O2-PFHxS	IS	89.1	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFOA	IS	102	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C8-PFOS	IS	67.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C5-PFNA	IS	83.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFDA	IS	68.4	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
d3-MeFOSAA	IS	69.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFOxA	IS	67.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
d5-EtFOSAA	IS	71.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFOxA	IS	76.1	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFTeDA	IS	77.6	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	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-S-07-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-05	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 11:50	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	13.0	1.92	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHxA	40.7	2.34	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHpA	10.3	0.634	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHxS	35.0	1.02	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFOA	39.2	0.699	5.39	8.59	B	B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFOS	ND	0.866	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFNA	ND	0.870	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFDA	ND	1.60	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
MeFOSAA	ND	1.77	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFUnA	ND	1.13	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
EtFOSAA	ND	1.47	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFDoA	ND	0.850	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFTrDA	ND	0.530	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFTeDA	ND	0.811	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	97.3	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFHxA	IS	93.3	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C4-PFHpA	IS	92.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
18O2-PFHxS	IS	97.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFOA	IS	92.0	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C8-PFOS	IS	101	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C5-PFNA	IS	85.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFDA	IS	87.8	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
d3-MeFOSAA	IS	89.7	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFUnA	IS	84.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
d5-EtFOSAA	IS	74.8	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFDoA	IS	96.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFTeDA	IS	99.9	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	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-A06-6-S-07-1217

Modified EPA Method 537

Name:	CH2M Hill	Lab Sample:	B7L0145-MS1/B7L0145-MSD1	Source Lab Sample:	1701911-05
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	QC Batch:	B7L0145	Date Extracted:	20-Dec-17
Matrix:	Aqueous	Samp Size:	0.117/0.116 L	Column:	BEH C18

Analyte	Sample (ng/L)	MS (ng/L)	MS Spike Amt	MS % Rec	MS Quals	MSD (ng/L)	MSD Spike Amt	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	13.0	78.5	85.8	76.3		89.3	86.0	88.8	15.1		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFHxA	40.7	107	85.8	76.7		108	86.0	78.3	2.06		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFHpA	10.3	91.3	85.8	94.5		83.6	86.0	85.2	10.4		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFHxS	35.0	105	85.8	81.9		111	86.0	88.1	7.29		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFOA	39.2	123	85.8	97.6	B	142	86.0	120	20.6	B	70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFOS	ND	98.1	85.8	114		82.5	86.0	96.0	17.1		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFNA	ND	76.8	85.8	89.5		89.4	86.0	104	15.0		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFDA	ND	80.8	85.8	94.2		102	86.0	118	22.4		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
MeFOSAA	ND	101	85.8	118		101	86.0	118	0		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFUnA	ND	82.2	85.8	95.8		108	86.0	125	26.4		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
EtFOSAA	ND	81.5	85.8	95.0		85.5	86.0	99.5	4.63		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFDoA	ND	94.6	85.8	110		93.0	86.0	108	1.83		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFTrDA	ND	84.3	85.8	98.2		89.1	86.0	104	5.74		60-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFTeDA	ND	85.0	85.8	99.1		130	86.0	151	41.5	H	70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	110		125		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFHxA	IS	115		124		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C4-PFHpA	IS	95.0		111		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
18O2-PFHxS	IS	111		118		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFOA	IS	88.2		83.1		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C8-PFOS	IS	127		95.6		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C5-PFNA	IS	91.7		92.1		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFDA	IS	78.3		106		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
d3-MeFOSAA	IS	99.9		91.4		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFUnA	IS	102		102		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
d5-EtFOSAA	IS	105		93.5		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFDoA	IS	98.3		92.3		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFTeDA	IS	130		92.9		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1

**Sample ID: WI-A06-6-S-26-1217**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-07	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 13:40	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	9.28	1.86	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHxA	35.2	2.27	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHpA	13.4	0.616	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHxS	47.8	0.987	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFOA	52.3	0.678	5.21	8.33	B	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFOS	5.60	0.841	5.21	8.33	J	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFNA	3.71	0.844	5.21	8.33	J	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFDA	ND	1.55	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
MeFOSAA	ND	1.72	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFUnA	ND	1.09	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
EtFOSAA	ND	1.43	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFDoA	ND	0.825	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFTrDA	ND	0.515	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFTeDA	ND	0.787	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	102	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFHxA	IS	99.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C4-PFHpA	IS	98.5	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
18O2-PFHxS	IS	109	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFOA	IS	116	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C8-PFOS	IS	77.9	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C5-PFNA	IS	112	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFDA	IS	69.3	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
d3-MeFOSAA	IS	58.6	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFUnA	IS	71.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
d5-EtFOSAA	IS	61.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFDoA	IS	83.8	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFTeDA	IS	71.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	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-EB04-120717**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-09	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 13:50	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.96	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHxA	ND	2.38	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHpA	ND	0.646	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHxS	ND	1.03	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	1.75	0.711	5.48	8.74	J, B	B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOS	ND	0.882	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFNA	ND	0.885	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFDA	ND	1.63	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
MeFOSAA	ND	1.80	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	ND	1.15	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
EtFOSAA	ND	1.50	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFDaA	ND	0.865	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFTDA	ND	0.540	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFTeDA	ND	0.825	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	79.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFHxA	IS	66.9	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C4-PFHpA	IS	70.5	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
18O2-PFHxS	IS	62.6	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFOA	IS	74.2	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C8-PFOS	IS	69.5	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C5-PFNA	IS	56.3	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFDA	IS	56.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
d3-MeFOSAA	IS	60.6	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFOA	IS	66.3	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
d5-EtFOSAA	IS	53.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFDaA	IS	88.7	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFTeDA	IS	71.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	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-EB05-120717**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-11	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 14:30	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.85	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHxA	ND	2.26	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHpA	ND	0.612	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHxS	ND	0.980	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFOA	ND	0.674	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFOS	ND	0.835	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFNA	ND	0.838	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFDA	ND	1.54	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
MeFOSAA	ND	1.71	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFUnA	ND	1.09	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
EtFOSAA	ND	1.42	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFDoA	ND	0.820	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFTrDA	ND	0.511	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFTeDA	ND	0.781	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	97.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFHxA	IS	95.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C4-PFHpA	IS	98.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
18O2-PFHxS	IS	103	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFOA	IS	96.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C8-PFOS	IS	82.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C5-PFNA	IS	76.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFDA	IS	75.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
d3-MeFOSAA	IS	57.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFUnA	IS	61.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
d5-EtFOSAA	IS	59.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFDoA	IS	76.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFTeDA	IS	68.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	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-FB01-120717**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-13	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 14:45	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHxA	ND	2.29	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHpA	ND	0.620	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHxS	ND	0.993	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOA	ND	0.683	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOS	ND	0.846	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFNA	ND	0.849	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFDA	ND	1.56	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
MeFOSAA	ND	1.73	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOxA	ND	1.10	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
EtFOSAA	ND	1.44	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOxA	ND	0.830	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFTeDA	ND	0.518	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFTeDA	ND	0.792	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	97.2	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFHxA	IS	86.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C4-PFHpA	IS	99.1	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
18O2-PFHxS	IS	98.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFOA	IS	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C8-PFOS	IS	70.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C5-PFNA	IS	83.1	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFDA	IS	72.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
d3-MeFOSAA	IS	91.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFOxA	IS	89.2	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
d5-EtFOSAA	IS	96.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFOxA	IS	98.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFTeDA	IS	81.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	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-MW-10-1217**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-15	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 09:45	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.30	2.00	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHxA	5.44	2.43	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHpA	ND	0.659	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHxS	2.24	1.06	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFOA	3.60	0.726	5.58	8.92	J, B	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFOS	ND	0.900	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFNA	ND	0.903	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFDA	ND	1.66	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
MeFOSAA	ND	1.84	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFUnA	ND	1.17	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
EtFOSAA	ND	1.53	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFDoA	ND	0.883	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFTrDA	ND	0.551	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFTeDA	ND	0.842	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	90.1	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFHxA	IS	88.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C4-PFHpA	IS	87.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
18O2-PFHxS	IS	88.1	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFOA	IS	89.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C8-PFOS	IS	79.6	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C5-PFNA	IS	79.6	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFDA	IS	78.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
d3-MeFOSAA	IS	81.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFUnA	IS	94.5	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
d5-EtFOSAA	IS	85.9	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFDoA	IS	73.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFTeDA	IS	83.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	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-S-14-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-17	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	08-Dec-17 13:10	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.2	1.88	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHxA	25.6	2.29	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHpA	3.61	0.621	5.25	8.41	J	B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHxS	13.8	0.996	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOA	19.6	0.685	5.25	8.41	B	B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOS	ND	0.849	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFNA	ND	0.852	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFDA	ND	1.57	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
MeFOSAA	ND	1.74	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOxA	ND	1.10	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
EtFOSAA	ND	1.44	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOxA	ND	0.833	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFTeDA	ND	0.519	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFTeDA	ND	0.794	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	90.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFHxA	IS	88.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C4-PFHpA	IS	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
18O2-PFHxS	IS	103	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFOA	IS	111	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C8-PFOS	IS	75.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C5-PFNA	IS	86.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFDA	IS	80.8	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
d3-MeFOSAA	IS	94.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFOxA	IS	86.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
d5-EtFOSAA	IS	107	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFOxA	IS	115	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFTeDA	IS	103	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	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-S-44-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-19	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	08-Dec-17 10:50	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.5	1.84	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHxA	44.7	2.25	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHpA	13.4	0.609	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHxS	62.5	0.976	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	96.9	0.671	5.17	8.24	B	B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOS	ND	0.832	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFNA	6.30	0.835	5.17	8.24	J	B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFDA	ND	1.54	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
MeFOSAA	ND	1.70	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	1.08	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
EtFOSAA	ND	1.41	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	0.816	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	0.509	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	0.778	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	95.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFHxA	IS	92.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C4-PFHpA	IS	93.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
18O2-PFHxS	IS	96.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	94.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C8-PFOS	IS	93.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C5-PFNA	IS	90.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFDA	IS	69.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
d3-MeFOSAA	IS	69.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	84.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
d5-EtFOSAA	IS	68.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	82.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	95.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	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-EB06-120817**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-21	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	08-Dec-17 14:00	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.87	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHxA	ND	2.28	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHpA	ND	0.618	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHxS	ND	0.990	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFOA	ND	0.681	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFOS	ND	0.844	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFNA	ND	0.847	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFDA	ND	1.56	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
MeFOSAA	ND	1.73	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFUnA	ND	1.10	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
EtFOSAA	ND	1.43	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFDoA	ND	0.828	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFTrDA	ND	0.517	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFTeDA	ND	0.790	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	95.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFHxA	IS	94.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C4-PFHpA	IS	87.8	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
18O2-PFHxS	IS	85.3	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFOA	IS	84.0	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C8-PFOS	IS	98.4	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C5-PFNA	IS	78.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFDA	IS	69.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
d3-MeFOSAA	IS	67.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFUnA	IS	70.0	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
d5-EtFOSAA	IS	55.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFDoA	IS	82.6	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFTeDA	IS	83.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	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>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The associated compound concentration exceeded the calibration range of the instrument.</b>
<b>H</b>	<b>Recovery and/or RPD was outside laboratory acceptance limits.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Reporting Limit/LOQ.</b>
<b>M</b>	<b>Estimated Maximum Possible Concentration. (CA Region 2 projects only)</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>NA</b>	<b>Not applicable</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>
<b>U</b>	<b>Not Detected (specific projects only)</b>

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

## CERTIFICATIONS

<b>Accrediting Authority</b>	<b>Certificate Number</b>
Alaska Department of Environmental Conservation	17-013
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	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
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.*

1701911 2.4°C

**CH2MHILL**

**CHAIN OF CUSTODY RECORD**

12/7/2017 4:44:13 PM

Page 1 OF 2

Project Name Location NASWI, Oak Harbor, Washingt 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: 12/8/2017 COC Number: VAL-120817	Container:		Preservatives:		Filtered:	Holding Time:	2x 125mL ≤ 6°C	4x 125mL ≤ 6°C	PFAS (14 analyte list) PFAS (14 analyte list) TOP	Number of Containers	COMMENTS
	DATE	TIME	Matrix								
✓ WI-A06-6-S-17-1217	12/6/2017	13:05	Water	X						2	
✓ WI-A06-6-S-17-1217-TOP	12/6/2017	13:05	Water					X		4	
✓ WI-A06-EB03-120617	12/6/2017	15:20	Water	X						2	
✓ WI-A06-EB03-120617-TOP	12/6/2017	15:20	Water					X		4	
✓ WI-A06-6-S-07-1217	12/7/2017	11:50	Water	X						2	
✓ WI-A06-6-S-07-1217-MS	12/7/2017	11:50	Water	X						2	
✓ WI-A06-6-S-07-1217-MS-TOP	12/7/2017	11:50	Water					X		4	
✓ WI-A06-6-S-07-1217-SD	12/7/2017	11:50	Water	X						2	
✓ WI-A06-6-S-07-1217-SD-TOP	12/7/2017	11:50	Water					X		4	
✓ WI-A06-6-S-07-1217-TOP	12/7/2017	11:50	Water					X		4	
✓ WI-A06-6-S-26-1217	12/7/2017	13:40	Water	X						2	
✓ WI-A06-6-S-26-1217-TOP	12/7/2017	13:40	Water					X		4	
✓ WI-A06-EB04-120717	12/7/2017	13:50	Water	X						2	
✓ WI-A06-EB04-120717-TOP	12/7/2017	13:50	Water					X		4	

Approved by _____ Sampled by <u>Heather Perry</u> Relinquished by _____ Received by <u>W. Spinks</u> Relinquished by _____ Received by _____	Signatures Date/Time <u>12/8/17 1500</u> <u>12/09/17 1018</u>	Shipping Details Method of Shipment: FedEx On Ice: <u>yes</u> / 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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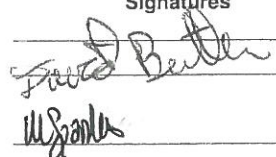
1701911

**CH2MHILL**

**CHAIN OF CUSTODY RECORD**

12/7/2017 4:44:13 PM

				2x 125mL	4x 125mL	PFAS (14 analyte list) TOP	PFAS (14 analyte list) TOP	Number of Containers	COMMENTS
Project Name	Container:			≤ 6°C	≤ 6°C				
Location NASWI, Oak Harbor, Washingt	Preservatives:								
Project Number 695610.05.FI.FS	Filtered:			NA	NA				
Project Manager Heather Perry	Holding Time:			7	7				
Sample Manager Tiffany Hill (541) 908-3794									
Task Order									
Project WHIDBEY ISLAND									
Turnaround Time 7 Days									
Shipping Date: 12/8/2017									
COC Number: VAL-120817									
DATE	TIME	Matrix							
✓ WI-A06-EB05-120717	12/7/2017	14:30	Water	X				2	
✓ WI-A06-EB05-120717-TOP	12/7/2017	14:30	Water		X			4	
✓ WI-A06-FB01-120717	12/7/2017	14:45	Water	X				2	
✓ WI-A06-FB01-120717-TOP	12/7/2017	14:45	Water		X			4	
✓ WI-A06-MW-10-1217	12/7/2017	9:45	Water	X				2	
✓ WI-A06-MW-10-1217-TOP	12/7/2017	9:45	Water		X			4	
✓ WI-A06-6-S-14-1217	12/8/2017	1310	Water	X				2	
✓ WI-A06-6-S-14-1217-TOP	12/8/2017	1310	Water		X			4	
✓ WI-A06-6-S-44-1217	12/8/2017	1050	Water	X				2	
✓ WI-A06-6-S-44-1217-TOP	12/8/2017	1050	Water		X			4	
WI-A06-EB06-120817	12/8/2017	14:00	Water	X				2	
WI-A06-EB06-120817-TOP	12/8/2017	14:00	Water		X			4	
TOTAL NUMBER OF CONTAINERS								78	

<b>Approved by</b> <b>Sampled by</b> <b>Relinquished by</b> <b>Received by</b> <b>Relinquished by</b> <b>Received by</b>	<b>Signatures</b>      	<b>Date/Time</b> 12/11/17 1500 12/09/17 1018   	<b>Shipping Details</b> Method of Shipment: FedEx On Ice: <input checked="" type="checkbox"/> yes / no Airbill No: Lab Name: Vista Analytical Laboratory Lab Phone: (916) 673-1520	<b>ATTN:</b>  <b>Sample Custody</b> and Martha Maier	<b>Special Instructions:</b>  <b>Report Copy to</b> Heather.Perry@CH2M.com (530) 229-3276 x33276
---	--	---	---	--	--

### Sample Log-in Checklist

 Vista Work Order #: 1701911 TAT 14 days

<b>Samples Arrival:</b>	<b>Date/Time:</b> 12/09/17 1005	<b>Initials:</b> WWS	<b>Location:</b> WR-2 <b>Shelf/Rack:</b> N/A				
<b>Logged In:</b>	<b>Date/Time:</b> 12/09/17 1516	<b>Initials:</b> WWS	<b>Location:</b> WR-2 <b>Shelf/Rack:</b> F4				
<b>Delivered By:</b>	<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
<b>Preservation:</b>	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice	<input type="radio"/> None			
<b>Temp °C:</b> 2.3 (uncorrected)	<b>Time:</b> 1018		<b>Thermometer ID:</b> IR-1				
<b>Temp °C:</b> 2.4 (corrected)	<b>Probe used:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

	YES	NO	NA			
Adequate Sample Volume Received?	✓					
Holding Time Acceptable?	✓					
Shipping Container(s) Intact?	✓					
Shipping Custody Seals Intact?	✓					
Shipping Documentation Present?	✓					
Airbill	Trk # 7888 2516 3971	✓				
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?			✓			
<b>Preservation Documented:</b>	<input type="radio"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<input type="radio"/> Trizma	<input checked="" type="radio"/> None	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> NA
<b>Shipping Container</b>	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input checked="" type="radio"/> Retain	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments:

### Sample Log-in Checklist

Vista Work Order #: 1701911 TAT 14 day

Samples Arrival:	Date/Time 12/09/17 1005	Initials: WWS	Location: WR-2 Shelf/Rack: N/A
Logged In:	Date/Time 12/09/17 1516	Initials: WWS	Location: WR-2 Shelf/Rack: F4
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:	4.1 (uncorrected)	Time: 1023	Thermometer ID: IR-1
Temp °C:	4.2 (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # <del>4888</del> 2518 2245	✓	
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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<input type="radio"/> Trizma	<input checked="" type="radio"/> None
	<input 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:

December 29, 2017

**Vista Work Order No. 1701911**

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 09, 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](mailto:mmaier@vista-analytical.com).

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

Sincerely,

Martha Maier  
Laboratory Director



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

## **Vista Work Order No. 1701911**

### **Case Narrative**

#### **Sample Condition on Receipt:**

Twenty two 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 eleven of the samples; the results will be reported under separate cover.

#### **Analytical Notes:**

##### **Modified EPA Method 537**

Samples "WI-A06-6-S-07-1217", "WI-A06-6-S-26-1217", "WI-A06-MW-10-1217" and "WI-A06-6-S-14-1217" 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 Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The OPR recoveries were within the method acceptance criteria

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

As requested, an MS/MSD was performed on sample "WI-A06-6-S-07-1217". The MS/MSD recoveries and/or RPDs were out of the criteria for PFTeDA.

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701911-01	WI-A06-6-S-17-1217	06-Dec-17 13:05	09-Dec-17 10:05	HDPE Bottle, 125 mL
1701911-02	WI-A06-6-S-17-1217-TOP	06-Dec-17 13:05	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-03	WI-A06-EB03-120617	06-Dec-17 15:20	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-04	WI-A06-EB03-120617-TOP	06-Dec-17 15:20	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-05	WI-A06-6-S-07-1217	MS/MSD07-Dec-17 11:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-06	WI-A06-6-S-07-1217-TOP	MS/MSD07-Dec-17 11:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-07	WI-A06-6-S-26-1217	07-Dec-17 13:40	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-08	WI-A06-6-S-26-1217-TOP	07-Dec-17 13:40	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-09	WI-A06-EB04-120717	07-Dec-17 13:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-10	WI-A06-EB04-120717-TOP	07-Dec-17 13:50	09-Dec-17 10:05	HDPE Bottle, 125 mL

# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701911-10	WI-A06-EB04-120717-TOP	07-Dec-17 13:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-11	WI-A06-EB05-120717	07-Dec-17 14:30	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-12	WI-A06-EB05-120717-TOP	07-Dec-17 14:30	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-13	WI-A06-FB01-120717	07-Dec-17 14:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-14	WI-A06-FB01-120717-TOP	07-Dec-17 14:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-15	WI-A06-MW-10-1217	07-Dec-17 09:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-16	WI-A06-MW-10-1217-TOP	07-Dec-17 09:45	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-17	WI-A06-6-S-14-1217	08-Dec-17 13:10	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-18	WI-A06-6-S-14-1217-TOP	08-Dec-17 13:10	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-19	WI-A06-6-S-44-1217	08-Dec-17 10:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-20	WI-A06-6-S-44-1217-TOP	08-Dec-17 10:50	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-21	WI-A06-EB06-120817	08-Dec-17 14:00	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701911-22	WI-A06-EB06-120817-TOP	08-Dec-17 14:00	09-Dec-17 10:05	HDPE Bottle, 125 mL HDPE Bottle, 125 mL HDPE Bottle, 125 mL

Vista Project: 1701911

Client Project: WHIDBEY ISLAND / 695610.05.FI.FS



## **ANALYTICAL RESULTS**

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

<b>Client Data</b>				<b>Laboratory Data</b>							
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0145-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		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFHxA	ND	2.18	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFHpA	ND	0.591	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFHxS	ND	0.947	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFOA	0.716	0.651	5.00	8.00	J	B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFOS	ND	0.807	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFNA	ND	0.810	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFDA	ND	1.49	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
MeFOSAA	ND	1.65	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFUnA	ND	1.05	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
EtFOSAA	ND	1.37	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFDoA	ND	0.792	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFTrDA	ND	0.494	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
PFTeDA	ND	0.755	5.00	8.00		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	94.1	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFHxA	IS	93.4	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C4-PFHpA	IS	106	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
18O2-PFHxS	IS	105	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFOA	IS	96.0	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C8-PFOS	IS	98.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C5-PFNA	IS	72.3	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFDA	IS	85.3	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
d3-MeFOSAA	IS	59.0	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFUnA	IS	55.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
d5-EtFOSAA	IS	54.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFDoA	IS	57.2	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	1
13C2-PFTeDA	IS	62.9	50 - 150		B7L0145	20-Dec-17	0.125 L	23-Dec-17 23:45	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: OPR**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0145-BS1	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS						

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	68.8	80.0	86.0	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFHxA	70.5	80.0	88.2	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFHpA	58.9	80.0	73.6	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFHxS	68.1	80.0	85.1	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFOA	72.5	80.0	90.6	70-130	B	B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFOS	86.9	80.0	109	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFNA	65.2	80.0	81.5	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFDA	69.7	80.0	87.1	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
MeFOSAA	70.1	80.0	87.6	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFOA	85.4	80.0	107	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
EtFOSAA	84.3	80.0	105	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFDaA	84.9	80.0	106	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFTrDA	79.7	80.0	99.6	60-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
PFTeDA	80.1	80.0	100	70-130		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS		122	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFHxA	IS		110	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C4-PFHpA	IS		117	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
18O2-PFHxS	IS		120	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFOA	IS		109	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C8-PFOS	IS		112	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C5-PFNA	IS		103	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFDA	IS		93.5	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
d3-MeFOSAA	IS		89.6	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFOA	IS		80.4	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
d5-EtFOSAA	IS		84.8	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFDaA	IS		71.6	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1
13C2-PFTeDA	IS		82.9	50- 150		B7L0145	20-Dec-17	0.125 L	28-Dec-17 14:05	1

**Sample ID: WI-A06-6-S-17-1217**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-01	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	06-Dec-17 13:05	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHxA	ND	2.29	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHpA	ND	0.620	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHxS	ND	0.994	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFOA	1.82	0.683	5.25	8.39	J, B	B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFOS	ND	0.847	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFNA	ND	0.850	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFDA	ND	1.56	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
MeFOSAA	ND	1.73	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFUnA	ND	1.10	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
EtFOSAA	ND	1.44	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFDoA	ND	0.831	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFTrDA	ND	0.518	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFTeDA	ND	0.792	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	87.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFHxA	IS	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C4-PFHpA	IS	95.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
18O2-PFHxS	IS	98.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFOA	IS	83.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C8-PFOS	IS	78.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C5-PFNA	IS	80.1	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFDA	IS	74.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
d3-MeFOSAA	IS	85.8	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFUnA	IS	97.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
d5-EtFOSAA	IS	83.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFDoA	IS	138	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
13C2-PFTeDA	IS	118	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	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-EB03-120617**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-03	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	06-Dec-17 15:20	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHxA	ND	2.33	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHpA	ND	0.631	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHxS	ND	1.01	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOA	ND	0.695	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOS	ND	0.862	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFNA	ND	0.865	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFDA	ND	1.59	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
MeFOSAA	ND	1.76	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOxA	ND	1.12	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
EtFOSAA	ND	1.46	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOxA	ND	0.846	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFTeDA	ND	0.528	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFTeDA	ND	0.806	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	84.3	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFHxA	IS	90.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C4-PFHpA	IS	101	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
18O2-PFHxS	IS	89.1	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFOA	IS	102	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C8-PFOS	IS	67.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C5-PFNA	IS	83.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFDA	IS	68.4	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
d3-MeFOSAA	IS	69.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFOxA	IS	67.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
d5-EtFOSAA	IS	71.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFDOA	IS	76.1	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
13C2-PFTeDA	IS	77.6	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	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-S-07-1217**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-05	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 11:50	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	13.0	1.92	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHxA	40.7	2.34	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHpA	10.3	0.634	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHxS	35.0	1.02	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFOA	39.2	0.699	5.39	8.59	B	B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFOS	ND	0.866	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFNA	ND	0.870	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFDA	ND	1.60	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
MeFOSAA	ND	1.77	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFUnA	ND	1.13	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
EtFOSAA	ND	1.47	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFDoA	ND	0.850	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFTrDA	ND	0.530	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFTeDA	ND	0.811	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	97.3	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFHxA	IS	93.3	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C4-PFHpA	IS	92.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
18O2-PFHxS	IS	97.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFOA	IS	92.0	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C8-PFOS	IS	101	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C5-PFNA	IS	85.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFDA	IS	87.8	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
d3-MeFOSAA	IS	89.7	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFUnA	IS	84.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
d5-EtFOSAA	IS	74.8	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFDoA	IS	96.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
13C2-PFTeDA	IS	99.9	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	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-A06-6-S-07-1217

Modified EPA Method 537

Name:	CH2M Hill	Lab Sample:	B7L0145-MS1/B7L0145-MSD1	Source Lab Sample:	1701911-05
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	QC Batch:	B7L0145	Date Extracted:	20-Dec-17
Matrix:	Aqueous	Samp Size:	0.117/0.116 L	Column:	BEH C18

Analyte	Sample (ng/L)	MS (ng/L)	MS Spike Amt	MS % Rec	MS Quals	MSD (ng/L)	MSD Spike Amt	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBS	13.0	78.5	85.8	76.3		89.3	86.0	88.8	15.1		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFHxA	40.7	107	85.8	76.7		108	86.0	78.3	2.06		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFHpA	10.3	91.3	85.8	94.5		83.6	86.0	85.2	10.4		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFHxS	35.0	105	85.8	81.9		111	86.0	88.1	7.29		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFOA	39.2	123	85.8	97.6	B	142	86.0	120	20.6	B	70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFOS	ND	98.1	85.8	114		82.5	86.0	96.0	17.1		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFNA	ND	76.8	85.8	89.5		89.4	86.0	104	15.0		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFDA	ND	80.8	85.8	94.2		102	86.0	118	22.4		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
MeFOSAA	ND	101	85.8	118		101	86.0	118	0		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFUnA	ND	82.2	85.8	95.8		108	86.0	125	26.4		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
EtFOSAA	ND	81.5	85.8	95.0		85.5	86.0	99.5	4.63		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFDoA	ND	94.6	85.8	110		93.0	86.0	108	1.83		70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFTTrDA	ND	84.3	85.8	98.2		89.1	86.0	104	5.74		60-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1
PFTeDA	ND	85.0	85.8	99.1		130	86.0	151	41.5	H	70-130	30	28-Dec-17 13:42	1	28-Dec-17 13:53	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBS	IS	110		125		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFHxA	IS	115		124		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C4-PFHpA	IS	95.0		111		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
18O2-PFHxS	IS	111		118		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFOA	IS	88.2		83.1		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C8-PFOS	IS	127		95.6		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C5-PFNA	IS	91.7		92.1		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFDA	IS	78.3		106		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
d3-MeFOSAA	IS	99.9		91.4		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFUnA	IS	102		102		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
d5-EtFOSAA	IS	105		93.5		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFDoA	IS	98.3		92.3		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1
13C2-PFTeDA	IS	130		92.9		50-150	28-Dec-17 13:42	1	28-Dec-17 13:53	1

Sample ID: WI-A06-6-S-26-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-07	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 13:40	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	9.28	1.86	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHxA	35.2	2.27	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHpA	13.4	0.616	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHxS	47.8	0.987	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFOA	52.3	0.678	5.21	8.33	B	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFOS	5.60	0.841	5.21	8.33	J	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFNA	3.71	0.844	5.21	8.33	J	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFDA	ND	1.55	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
MeFOSAA	ND	1.72	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFUnA	ND	1.09	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
EtFOSAA	ND	1.43	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFDoA	ND	0.825	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFTrDA	ND	0.515	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFTeDA	ND	0.787	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	102	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFHxA	IS	99.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C4-PFHpA	IS	98.5	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
18O2-PFHxS	IS	109	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFOA	IS	116	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C8-PFOS	IS	77.9	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C5-PFNA	IS	112	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFDA	IS	69.3	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
d3-MeFOSAA	IS	58.6	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFUnA	IS	71.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
d5-EtFOSAA	IS	61.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFDoA	IS	83.8	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
13C2-PFTeDA	IS	71.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	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-EB04-120717**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-09	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 13:50	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.96	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHxA	ND	2.38	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHpA	ND	0.646	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHxS	ND	1.03	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	1.75	0.711	5.48	8.74	J, B	B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOS	ND	0.882	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFNA	ND	0.885	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFDA	ND	1.63	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
MeFOSAA	ND	1.80	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	ND	1.15	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
EtFOSAA	ND	1.50	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	ND	0.865	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	ND	0.540	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	ND	0.825	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	79.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFHxA	IS	66.9	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C4-PFHpA	IS	70.5	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
18O2-PFHxS	IS	62.6	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFOA	IS	74.2	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C8-PFOS	IS	69.5	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C5-PFNA	IS	56.3	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFDA	IS	56.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
d3-MeFOSAA	IS	60.6	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFOA	IS	66.3	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
d5-EtFOSAA	IS	53.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFOA	IS	88.7	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFOA	IS	71.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	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-EB05-120717**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-11	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 14:30	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.85	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHxA	ND	2.26	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHpA	ND	0.612	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHxS	ND	0.980	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFOA	ND	0.674	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFOS	ND	0.835	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFNA	ND	0.838	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFDA	ND	1.54	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
MeFOSAA	ND	1.71	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFUnA	ND	1.09	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
EtFOSAA	ND	1.42	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFDoA	ND	0.820	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFTrDA	ND	0.511	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFTeDA	ND	0.781	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	97.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFHxA	IS	95.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C4-PFHpA	IS	98.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
18O2-PFHxS	IS	103	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFOA	IS	96.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C8-PFOS	IS	82.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C5-PFNA	IS	76.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFDA	IS	75.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
d3-MeFOSAA	IS	57.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFUnA	IS	61.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
d5-EtFOSAA	IS	59.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFDoA	IS	76.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
13C2-PFTeDA	IS	68.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	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-FB01-120717**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-13	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 14:45	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHxA	ND	2.29	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHpA	ND	0.620	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHxS	ND	0.993	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOA	ND	0.683	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOS	ND	0.846	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFNA	ND	0.849	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFDA	ND	1.56	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
MeFOSAA	ND	1.73	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOxA	ND	1.10	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
EtFOSAA	ND	1.44	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOxA	ND	0.830	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFTeDA	ND	0.518	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFTeDA	ND	0.792	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	97.2	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFHxA	IS	86.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C4-PFHpA	IS	99.1	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
18O2-PFHxS	IS	98.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFOA	IS	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C8-PFOS	IS	70.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C5-PFNA	IS	83.1	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFDA	IS	72.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
d3-MeFOSAA	IS	91.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFOxA	IS	89.2	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
d5-EtFOSAA	IS	96.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFOxA	IS	98.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFTeDA	IS	81.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	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-MW-10-1217**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-15	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	07-Dec-17 09:45	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.30	2.00	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHxA	5.44	2.43	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHpA	ND	0.659	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHxS	2.24	1.06	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFOA	3.60	0.726	5.58	8.92	J, B	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFOS	ND	0.900	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFNA	ND	0.903	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFDA	ND	1.66	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
MeFOSAA	ND	1.84	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFUnA	ND	1.17	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
EtFOSAA	ND	1.53	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFDoA	ND	0.883	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFTrDA	ND	0.551	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFTeDA	ND	0.842	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	90.1	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFHxA	IS	88.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C4-PFHpA	IS	87.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
18O2-PFHxS	IS	88.1	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFOA	IS	89.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C8-PFOS	IS	79.6	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C5-PFNA	IS	79.6	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFDA	IS	78.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
d3-MeFOSAA	IS	81.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFUnA	IS	94.5	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
d5-EtFOSAA	IS	85.9	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFDoA	IS	73.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFTeDA	IS	83.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	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-S-14-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-17	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	08-Dec-17 13:10	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.2	1.88	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHxA	25.6	2.29	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHpA	3.61	0.621	5.25	8.41	J	B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHxS	13.8	0.996	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOA	19.6	0.685	5.25	8.41	B	B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOS	ND	0.849	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFNA	ND	0.852	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFDA	ND	1.57	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
MeFOSAA	ND	1.74	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOxA	ND	1.10	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
EtFOSAA	ND	1.44	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOxA	ND	0.833	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFTeDA	ND	0.519	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFTeDA	ND	0.794	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	90.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFHxA	IS	88.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C4-PFHpA	IS	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
18O2-PFHxS	IS	103	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFOA	IS	111	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C8-PFOS	IS	75.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C5-PFNA	IS	86.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFDA	IS	80.8	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
d3-MeFOSAA	IS	94.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFOxA	IS	86.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
d5-EtFOSAA	IS	107	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFOxA	IS	115	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
13C2-PFTeDA	IS	103	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	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-S-44-1217

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-19	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	08-Dec-17 10:50	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.5	1.84	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHxA	44.7	2.25	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHpA	13.4	0.609	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHxS	62.5	0.976	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	96.9	0.671	5.17	8.24	B	B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOS	ND	0.832	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFNA	6.30	0.835	5.17	8.24	J	B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFDA	ND	1.54	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
MeFOSAA	ND	1.70	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	1.08	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
EtFOSAA	ND	1.41	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	0.816	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	0.509	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	ND	0.778	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	95.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFHxA	IS	92.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C4-PFHpA	IS	93.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
18O2-PFHxS	IS	96.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	94.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C8-PFOS	IS	93.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C5-PFNA	IS	90.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFDA	IS	69.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
d3-MeFOSAA	IS	69.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	84.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
d5-EtFOSAA	IS	68.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	82.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
13C2-PFOA	IS	95.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	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-EB06-120817**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Water	Lab Sample:	1701911-21	Column:	BEH C18
Project:	WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected:	08-Dec-17 14:00	Date Received:	09-Dec-17 10:05		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.87	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHxA	ND	2.28	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHpA	ND	0.618	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHxS	ND	0.990	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFOA	ND	0.681	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFOS	ND	0.844	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFNA	ND	0.847	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFDA	ND	1.56	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
MeFOSAA	ND	1.73	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFUnA	ND	1.10	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
EtFOSAA	ND	1.43	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFDoA	ND	0.828	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFTrDA	ND	0.517	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFTeDA	ND	0.790	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	95.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFHxA	IS	94.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C4-PFHpA	IS	87.8	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
18O2-PFHxS	IS	85.3	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFOA	IS	84.0	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C8-PFOS	IS	98.4	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C5-PFNA	IS	78.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFDA	IS	69.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
d3-MeFOSAA	IS	67.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFUnA	IS	70.0	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
d5-EtFOSAA	IS	55.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFDoA	IS	82.6	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFTeDA	IS	83.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	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>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The associated compound concentration exceeded the calibration range of the instrument.</b>
<b>H</b>	<b>Recovery and/or RPD was outside laboratory acceptance limits.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Reporting Limit/LOQ.</b>
<b>M</b>	<b>Estimated Maximum Possible Concentration. (CA Region 2 projects only)</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>NA</b>	<b>Not applicable</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>
<b>U</b>	<b>Not Detected (specific projects only)</b>

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



## CERTIFICATIONS

<b>Accrediting Authority</b>	<b>Certificate Number</b>
Alaska Department of Environmental Conservation	17-013
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	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
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.*

1701911 2.4°C

**CH2MHILL**

**CHAIN OF CUSTODY RECORD**

12/7/2017 4:44:13 PM

Page 1 OF 2

Project Name Location NASWI, Oak Harbor, Washingt 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: 12/8/2017 COC Number: VAL-120817	Container:		Preservatives:		Filtered:	Holding Time:	2x 125mL ≤ 6°C	4x 125mL ≤ 6°C	PFAS (14 analyte list) PFAS (14 analyte list) TOP	Number of Containers	COMMENTS
	DATE	TIME	Matrix								
✓ WI-A06-6-S-17-1217	12/6/2017	13:05	Water	X						2	
✓ WI-A06-6-S-17-1217-TOP	12/6/2017	13:05	Water					X		4	
✓ WI-A06-EB03-120617	12/6/2017	15:20	Water	X						2	
✓ WI-A06-EB03-120617-TOP	12/6/2017	15:20	Water					X		4	
✓ WI-A06-6-S-07-1217	12/7/2017	11:50	Water	X						2	
✓ WI-A06-6-S-07-1217-MS	12/7/2017	11:50	Water	X						2	
✓ WI-A06-6-S-07-1217-MS-TOP	12/7/2017	11:50	Water					X		4	
✓ WI-A06-6-S-07-1217-SD	12/7/2017	11:50	Water	X						2	
✓ WI-A06-6-S-07-1217-SD-TOP	12/7/2017	11:50	Water					X		4	
✓ WI-A06-6-S-07-1217-TOP	12/7/2017	11:50	Water					X		4	
✓ WI-A06-6-S-26-1217	12/7/2017	13:40	Water	X						2	
✓ WI-A06-6-S-26-1217-TOP	12/7/2017	13:40	Water					X		4	
✓ WI-A06-EB04-120717	12/7/2017	13:50	Water	X						2	
✓ WI-A06-EB04-120717-TOP	12/7/2017	13:50	Water					X		4	

Approved by _____ Sampled by <u>Heather Perry</u> Relinquished by _____ Received by <u>W. Spinks</u> Relinquished by _____ Received by _____	Signatures Date/Time <u>12/8/17 1500</u> <u>12/09/17 1018</u>	Shipping Details Method of Shipment: FedEx On Ice: <u>yes</u> / 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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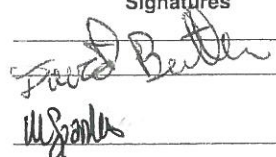
1701911

**CH2MHILL**

**CHAIN OF CUSTODY RECORD**

12/7/2017 4:44:13 PM

				2x 125mL	4x 125mL	PFAS (14 analyte list) TOP	PFAS (14 analyte list) TOP	Number of Containers	COMMENTS				
Project Name	Container:	2x 125mL	4x 125mL										
Location NASWI, Oak Harbor, Washingt	Preservatives:	≤ 6°C	≤ 6°C										
Project Number 695610.05.FI.FS	Filtered:	NA	NA										
Project Manager Heather Perry	Holding Time:	7	7										
Sample Manager Tiffany Hill (541) 908-3794													
Task Order													
Project WHIDBEY ISLAND													
Turnaround Time 7 Days													
Shipping Date: 12/8/2017													
COC Number: VAL-120817													
DATE	TIME	Matrix											
✓ WI-A06-EB05-120717	12/7/2017	14:30	Water	X				2					
✓ WI-A06-EB05-120717-TOP	12/7/2017	14:30	Water		X			4					
✓ WI-A06-FB01-120717	12/7/2017	14:45	Water	X				2					
✓ WI-A06-FB01-120717-TOP	12/7/2017	14:45	Water		X			4					
✓ WI-A06-MW-10-1217	12/7/2017	9:45	Water	X				2					
✓ WI-A06-MW-10-1217-TOP	12/7/2017	9:45	Water		X			4					
✓ WI-A06-6-S-14-1217	12/8/2017	1310	Water	X				2					
✓ WI-A06-6-S-14-1217-TOP	12/8/2017	1310	Water		X			4					
✓ WI-A06-6-S-44-1217	12/8/2017	1050	Water	X				2					
✓ WI-A06-6-S-44-1217-TOP	12/8/2017	1050	Water		X			4					
WI-A06-EB06-120817	12/8/2017	14:00	Water	X				2					
WI-A06-EB06-120817-TOP	12/8/2017	14:00	Water		X			4					
TOTAL NUMBER OF CONTAINERS								78					

<b>Approved by</b> <b>Sampled by</b> <b>Relinquished by</b> <b>Received by</b> <b>Relinquished by</b> <b>Received by</b>	<b>Signatures</b>      	<b>Date/Time</b> 12/11/17 1500 12/09/17 1018   	<b>Shipping Details</b> Method of Shipment: FedEx On Ice: <input checked="" type="checkbox"/> yes / no Airbill No: Lab Name: Vista Analytical Laboratory Lab Phone: (916) 673-1520	<b>ATTN:</b>  <b>Sample Custody</b> and Martha Maier	<b>Special Instructions:</b>  <b>Report Copy to</b> Heather.Perry@CH2M.com (530) 229-3276 x33276
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### Sample Log-in Checklist

 Vista Work Order #: 1701911 TAT 14 days

<b>Samples Arrival:</b>	<b>Date/Time</b> 12/09/17 1005	<b>Initials:</b> WWS	<b>Location:</b> WR-2 <b>Shelf/Rack:</b> N/A				
<b>Logged In:</b>	<b>Date/Time</b> 12/09/17 1516	<b>Initials:</b> WWS	<b>Location:</b> WR-2 <b>Shelf/Rack:</b> F4				
<b>Delivered By:</b>	<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
<b>Preservation:</b>	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice	<input type="radio"/> None			
<b>Temp °C:</b> 2.3 (uncorrected)	<b>Time:</b> 1018		<b>Thermometer ID:</b> IR-1				
<b>Temp °C:</b> 2.4 (corrected)	<b>Probe used:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

	YES	NO	NA			
Adequate Sample Volume Received?	✓					
Holding Time Acceptable?	✓					
Shipping Container(s) Intact?	✓					
Shipping Custody Seals Intact?	✓					
Shipping Documentation Present?	✓					
Airbill	Trk # 7888 2516 3971	✓				
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?			✓			
<b>Preservation Documented:</b>	<input type="radio"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<input type="radio"/> Trizma	<input checked="" type="radio"/> None	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> NA
<b>Shipping Container</b>	<input checked="" type="radio"/> Vista	<input type="radio"/> Client	<input checked="" type="radio"/> Retain	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments:

Sample Log-in Checklist

Vista Work Order #: 1701911 TAT 14 day

Samples Arrival:	Date/Time 12/09/17 1005	Initials: WWS	Location: WR-2 Shelf/Rack: N/A
Logged In:	Date/Time 12/09/17 1516	Initials: WWS	Location: WR-2 Shelf/Rack: F4
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:	4.1 (uncorrected)	Time: 1023	Thermometer ID: IR-1
Temp °C:	4.2 (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # <del>4888</del> 2518 2245	✓	
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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<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:

## **EXTRACTION INFORMATION**

Prep Expiration: 2017-Dec-20  
 Client: CH2M Hill

Workorder Due: **27-Dec-17 00:00**

TAT: 18

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

Prep Batch: B7L0145

Prep Data Entered: KC 12/21/17  
Date and Initials

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

Initial Sequence: S7L0082M

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701911-01	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-6-S-17-1217			HDPE Bottle, 125 mL
1701911-03	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EB03-120617			HDPE Bottle, 125 mL
1701911-05	A,B,C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-6-S-07-1217	<b>MS/MSD</b>		HDPE Bottle, 125 mL
1701911-07	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-6-S-26-1217			HDPE Bottle, 125 mL
1701911-09	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EB04-120717			HDPE Bottle, 125 mL
1701911-11	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EB05-120717			HDPE Bottle, 125 mL
1701911-13	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-FB01-120717			HDPE Bottle, 125 mL
1701911-15	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-MW-10-1217			HDPE Bottle, 125 mL
1701911-17	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-6-S-14-1217			HDPE Bottle, 125 mL
1701911-19	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-6-S-44-1217			HDPE Bottle, 125 mL
1701911-21	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WI-A06-EB06-120817			HDPE Bottle, 125 mL

Pre-Prep Check Out: MA 12/20/17

Prep Check Out: NA

Prep Reconciled Initials/Date: MA 12/20/17

Pre-Prep Check In: NA

Prep Check In: NA

Spike Reconciled Initials/Date: KC 12/20/17

VialBoxID: Hugo Fails

PREPARATION BENCH SHEET

Matrix: Aqueous

B7L0145

Chemist: KC

Method: 537M PFAS DOD (LOQ as mL)

Prep Date/Time: 20-Dec-17 07:38

Prepared using: LCMS - SPE Extraction-LCMS

		Date/Initials: <u>MAN/12/20/17</u>				BalanceID: <u>HRMS-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"/>	B7L0145-BLK1	5	2	0	0	NA	NA	(0.125) ✓	<u>KC Goo 12/20/17</u>	<u>KC 12/20/17</u>	<u>KC FN 12/20/17</u>
<input type="checkbox"/>	B7L0145-BS1	5	2	0	0	J	J	(0.125) ✓			
<input checked="" type="checkbox"/>	B7L0145-MS1 1701911-05	5	2	0	6	143.33	26.81	0.11652 ✓			
<input checked="" type="checkbox"/>	B7L0145-MSD1 1701911-05	5	2	0	4	143.22	26.93	0.11629 ✓			
<input type="checkbox"/>	1701911-01	6	2	0	7	146.08	26.94	0.11914 ✓			
<input type="checkbox"/>	1701911-03	5	2	0	2	144.15	27.09	0.11706 ✓			
<input checked="" type="checkbox"/>	1701911-05	6	2	0	4	143.39	26.95	0.11644 ✓			
<input checked="" type="checkbox"/>	1701911-07	6	2	0	6	146.95	26.97	0.11998 ✓			
<input type="checkbox"/>	1701911-09	5	2	0	2	141.53	27.12	0.11441 ✓			
<input type="checkbox"/>	1701911-11	5	2	0	2	147.92	27.14	0.12078 ✓			
<input type="checkbox"/>	1701911-13	5	2	0	2	146.19	26.97	0.11922 ✓			
<input checked="" type="checkbox"/>	1701911-15	6	2	0	4	138.95	26.84	0.11211 ✓			
<input checked="" type="checkbox"/>	1701911-17	6	2	0	7	145.81	26.94	0.11887 ✓			
<input type="checkbox"/>	1701911-19	6	2	0	6	148.16	26.85	0.12131 ✓			
<input type="checkbox"/>	1701911-21	5	2	0	2	146.63	27.11	0.11952 ✓			

IS: <u>17L0402, 10µL (V3)</u>	SPE Chem: <u>Strata-X-AW 33µm 200mg</u> Ele SOLV: <u>MeOH: 5% NH<sub>4</sub>OH in MeOH</u> Final Volume(s) <u>1mL</u>	Notes:
IS SUP: <u>NA</u>		
NS: <u>17J1820, 10µL (V1)</u>		
RS: <u>17K2502, 10µL (V2)</u>		

Comments: Assume 1 g = 1 mL

Cen = Centrifuge 1701911



Batch: B7L0145

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701911-01	0.11914 ✓	NA	NA	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-03	0.11706 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-05	0.11644 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-07	0.11998 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-09	0.11441 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-11	0.12078 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-13	0.11922 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-15	0.11211 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-17	0.11887 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-19	0.12131 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
1701911-21	0.11952 ✓	T	T	1000	20-Dec-17 07:38	KLC			Water	537M PFAS DOD (LOQ as
B7L0145-BLK1	0.125 ✓			1000	20-Dec-17 07:38	KLC				QC
B7L0145-BS1	0.125 ✓			1000	20-Dec-17 07:38	KLC	17J1820 ✓	10 ✓		QC
B7L0145-MS1	0.11652 ✓			1000	20-Dec-17 07:38	KLC	17J1820 ✓	10 ✓		QC
B7L0145-MSD1	0.11629 ✓	↓	↓	1000	20-Dec-17 07:38	KLC	17J1820 ✓	10 ✓		QC

KC 12/21/17

**SAMPLE DATA – MODIFIED EPA METHOD 537**

Dataset: U:\Q4.PRO\results\171223M1\171223M1-59.qld

Last Altered: Wednesday, December 27, 2017 14:17:59 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:18:27 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\_59, Date: 23-Dec-2017, Time: 23:45:25, ID: B7L0145-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		1.23e3	0.125		2.70				
2	4	PFHxA	313.2 > 268.9		3.41e3	0.125		3.20				
3	5	PFHpA	363.0 > 318.9		7.28e3	0.125		3.80				
4	6	L-PFHxS	398.9 > 79.6		1.07e3	0.125		3.95				
5	9	L-PFOA	413 > 368.7	2.24e2	1.00e4	0.125		4.32	4.35	0.279	0.716	
6	12	PFNA	463.0 > 418.8		5.98e3	0.125		4.75				
7	14	L-PFOS	499 > 79.9		2.80e3	0.125		4.83				
8	16	PFDA	513 > 468.8		7.89e3	0.125		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.45e3	0.125		5.26				
10	19	N-EtFOSAA	584.2 > 419		2.75e3	0.125		5.42				
11	20	PFUdA	563.0 > 518.9		6.61e3	0.125		5.43				
12	22	PFDoA	612.9 > 569.0		3.65e3	0.125		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-59.qld

Last Altered: Wednesday, December 27, 2017 14:17:59 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:18:42 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\_59, Date: 23-Dec-2017, Time: 23:45:25, ID: B7L0145-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		3.65e3	0.125		5.95				
2	25 PFTeDA	712.9 > 668.8		4.55e3	0.125		6.16				
3	33 13C3-PFBS	302. > 98.8	1.23e3	1.23e4	0.125	0.106	2.70	2.73	1.25	94.114	94.1
4	34 13C2-PFHxA	315 > 269.8	3.41e3	1.23e4	0.125	0.743	3.20	3.22	3.47	37.364	93.4
5	35 13C4-PFHpA	367.2 > 321.8	7.28e3	1.23e4	0.125	0.557	3.80	3.84	7.40	106.422	106.4
6	36 18O2-PFHxS	403.0 > 102.6	1.07e3	2.35e3	0.125	0.433	3.95	3.98	5.70	105.389	105.4
7	37 13C2-6:2 FTS	429.1 > 408.9	2.24e3	9.16e3	0.125	0.275	4.26	4.29	3.06	89.212	89.2
8	38 13C2-PFOA	414.9 > 369.7	1.00e4	9.16e3	0.125	1.141	4.32	4.35	13.7	96.035	96.0
9	39 13C5-PFNA	468.2 > 422.9	5.98e3	8.59e3	0.125	0.963	4.75	4.77	8.70	72.272	72.3
10	40 13C8-PFOSA	506.1 > 77.7	1.64e3	1.02e4	0.125	0.373	4.81	4.83	2.00	42.936	42.9
11	41 13C8-PFOS	507.0 > 79.9	2.80e3	2.63e3	0.125	1.075	4.83	4.85	13.3	98.877	98.9
12	42 13C2-PFDA	515.1 > 469.9	7.89e3	7.63e3	0.125	1.213	5.11	5.14	12.9	85.250	85.3
13	43 13C2-8:2 FTS	529.1 > 508.7	1.16e3	1.23e4	0.125	0.109	5.09	5.11	1.18	86.667	86.7
14	44 d3-N-MeFOSAA	573.3 > 419	2.45e3	1.02e4	0.125	0.405	5.26	5.28	2.99	58.964	59.0
15	45 d5-N-EtFOSAA	589.3 > 419	2.75e3	1.02e4	0.125	0.490	5.42	5.44	3.36	54.853	54.9
16	46 13C2-PFUdA	565 > 519.8	6.61e3	1.02e4	0.125	1.154	5.43	5.45	8.06	55.867	55.9
17	47 13C2-PFDoA	615.0 > 569.7	3.65e3	1.02e4	0.125	0.623	5.70	5.73	4.45	57.201	57.2
18	49 13C2-PFTeDA	714.8 > 669.6	4.55e3	1.02e4	0.125	0.706	6.16	6.18	5.55	62.858	62.9
19	55 13C5-PFHxA	318 > 272.9	1.23e4	1.23e4	0.125	1.000	3.20	3.22	12.5	100.000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.35e3	2.35e3	0.125	1.000	3.95	3.98	12.5	100.000	100.0
21	57 13C8-PFOA	421.3 > 376	9.16e3	9.16e3	0.125	1.000	4.32	4.34	12.5	100.000	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.59e3	8.59e3	0.125	1.000	4.75	4.77	12.5	100.000	100.0
23	59 13C4-PFOS	503 > 79.9	2.63e3	2.63e3	0.125	1.000	4.83	4.85	12.5	100.000	100.0
24	60 13C6-PFDA	519.1 > 473.7	7.63e3	7.63e3	0.125	1.000	5.11	5.14	12.5	100.000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	1.02e4	1.02e4	0.125	1.000	5.43	5.45	12.5	100.000	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	1.07e3	0.125		4.00		0.000		
27	63 Total PFOA	413 > 368.7	2.24e2	1.00e4	0.125		4.30		0.279	0.716	
28	64 Total PFOS	499 > 79.9	0.00e0	2.80e3	0.125		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.45e3	0.125		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.75e3	0.125		5.40		0.000		

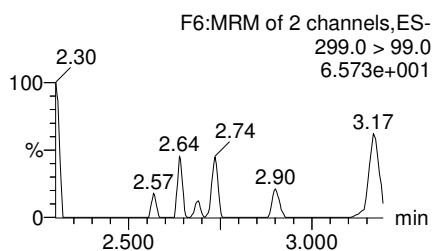
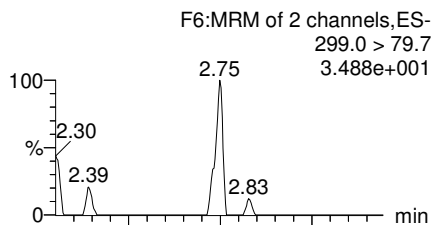
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Printed: Wednesday, December 27, 2017 14:18:42 Pacific Standard Time

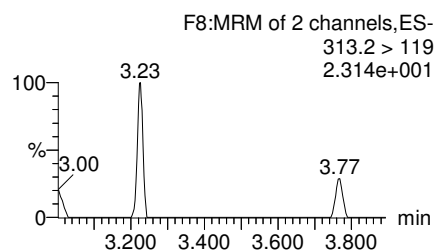
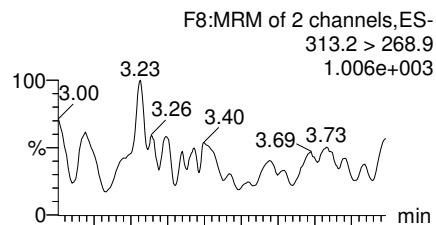
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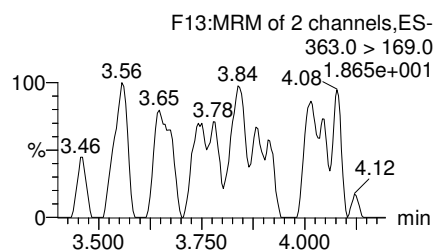
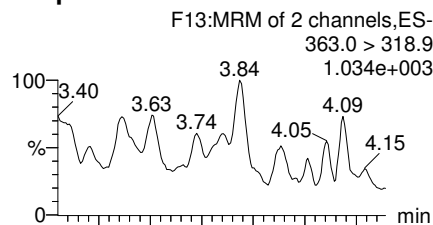
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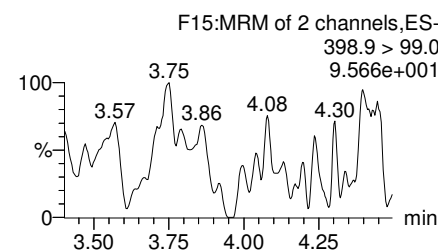
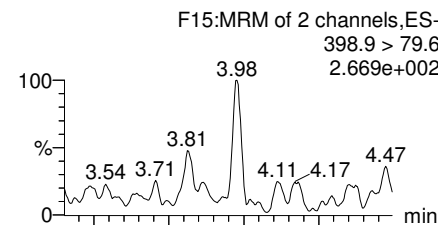
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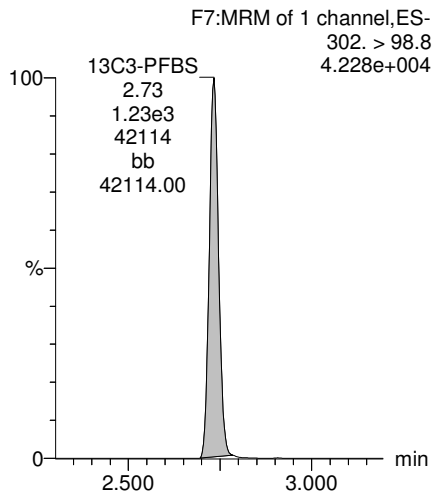
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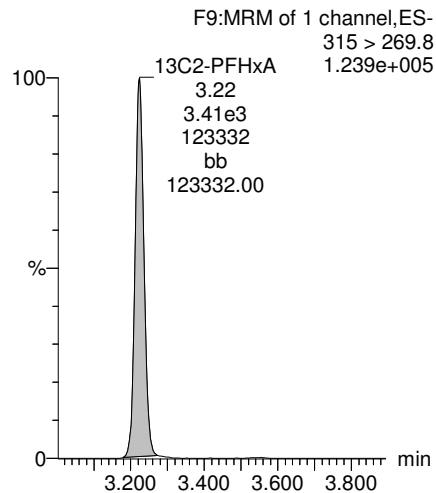
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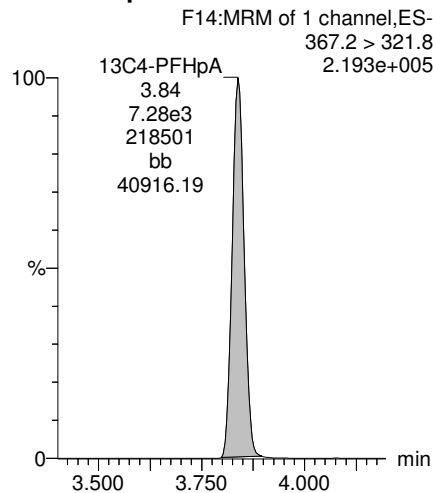
13C3-PFBS



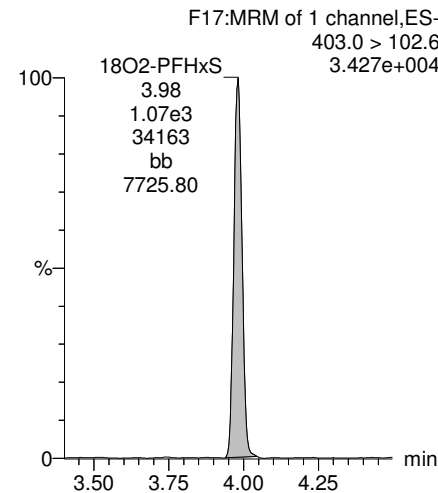
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

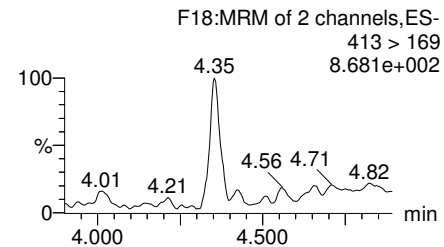
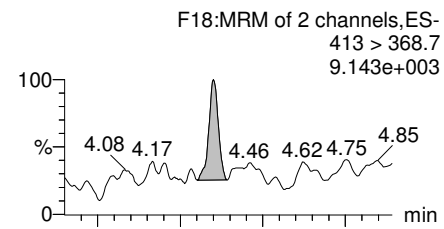


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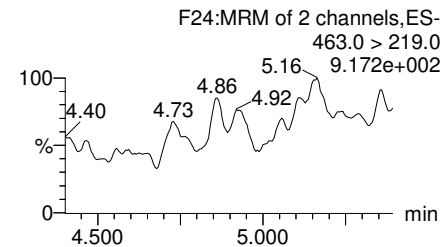
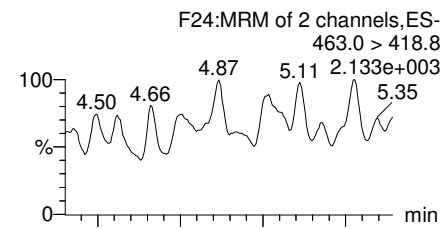
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Printed: Wednesday, December 27, 2017 14:18:42 Pacific Standard Time

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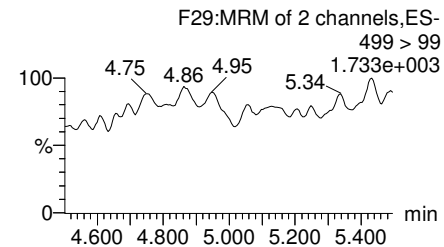
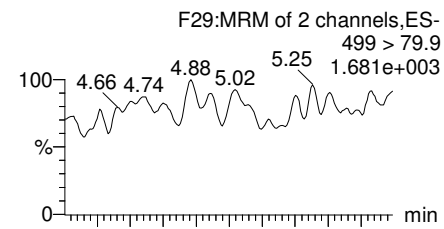
**Total PFOA**



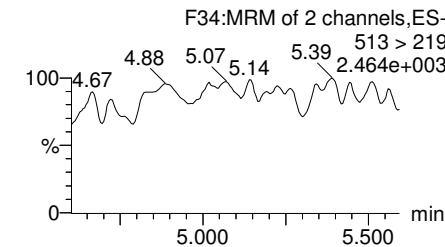
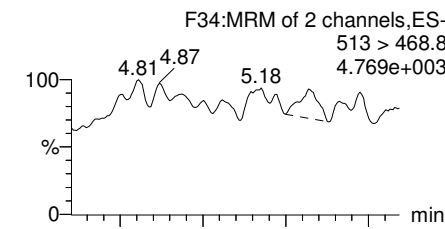
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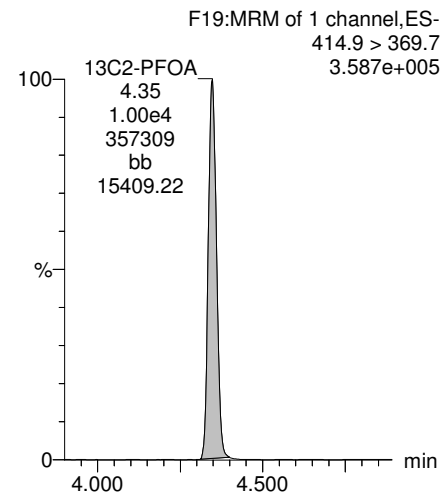
**Total PFOS**



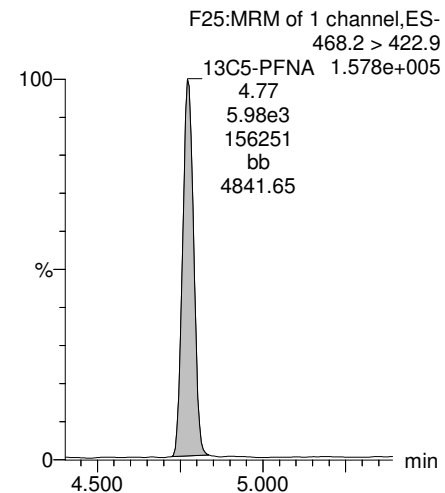
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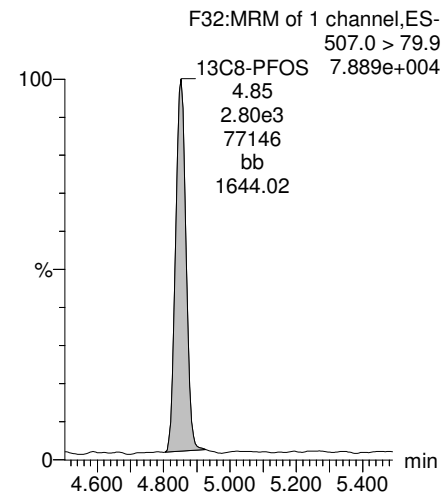
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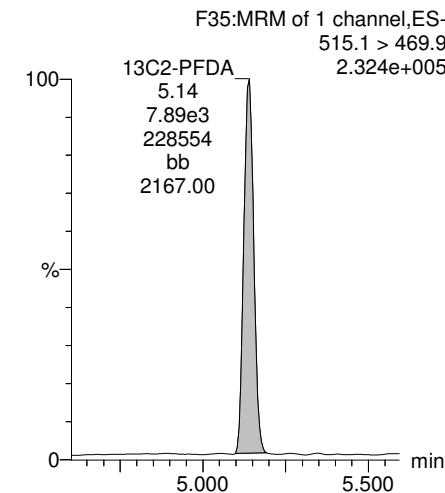
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

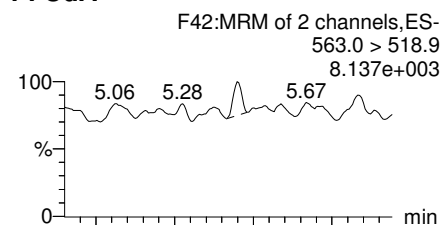


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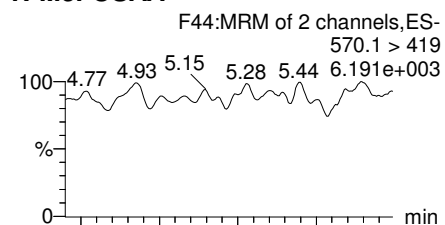
Last Altered: Wednesday, December 27, 2017 14:17:59 Pacific Standard Time  
Printed: Wednesday, December 27, 2017 14:18:42 Pacific Standard Time

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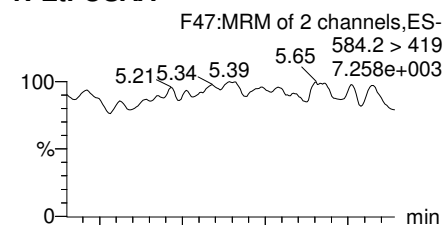
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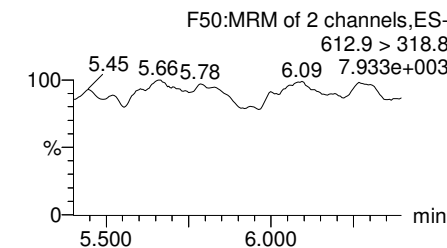
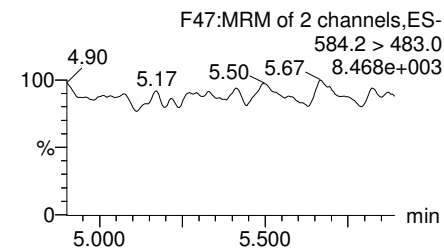
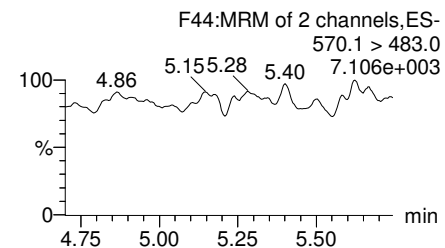
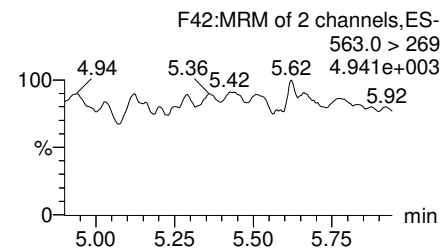
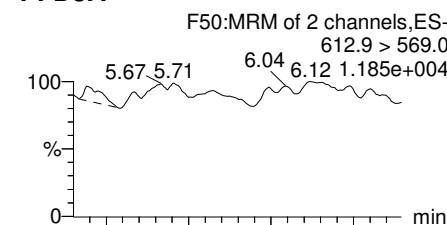
**N-MeFOSAA**



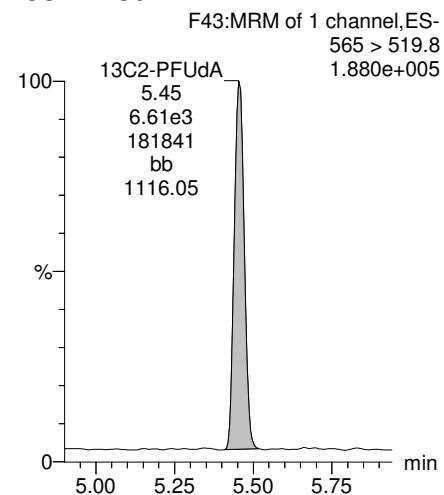
**N-EtFOSAA**



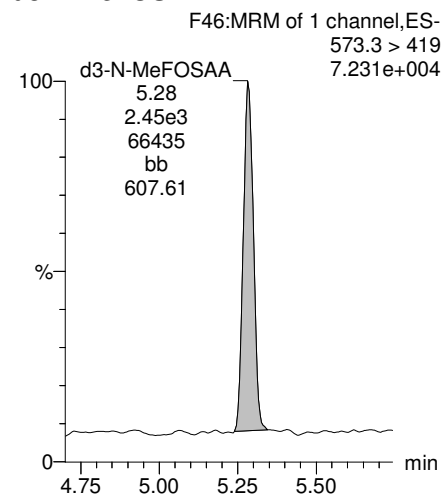
**PFDoA**



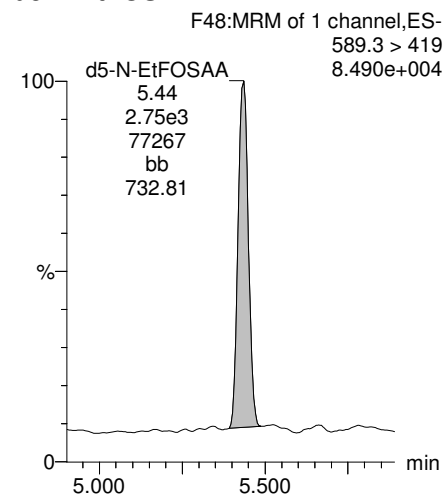
**13C2-PFUdA**



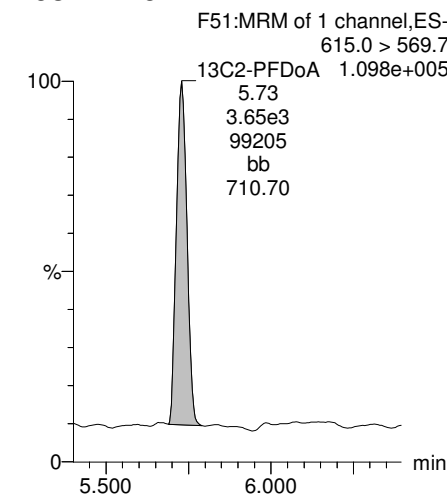
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



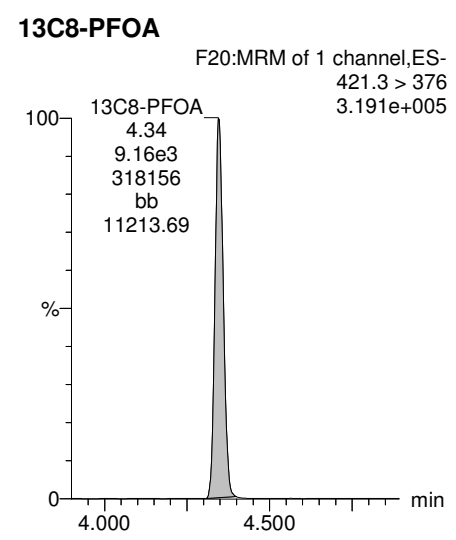
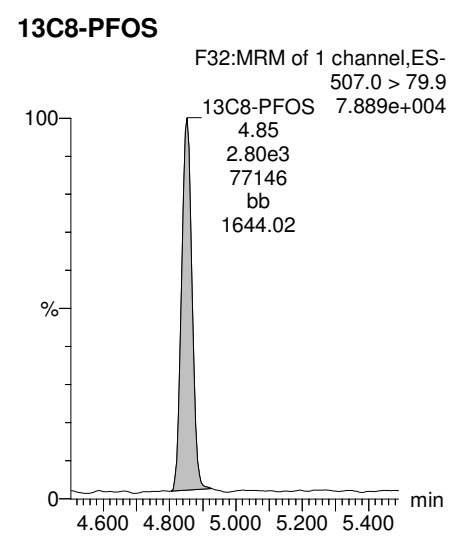
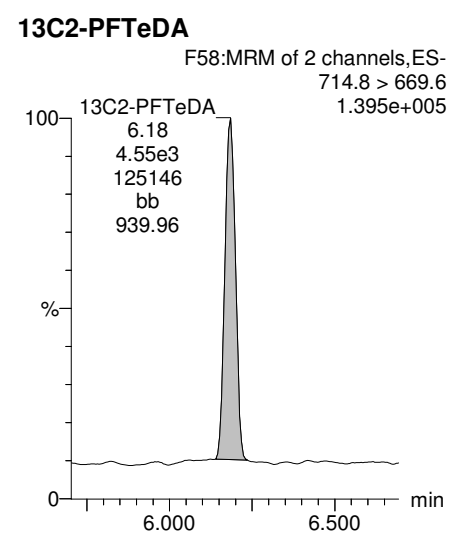
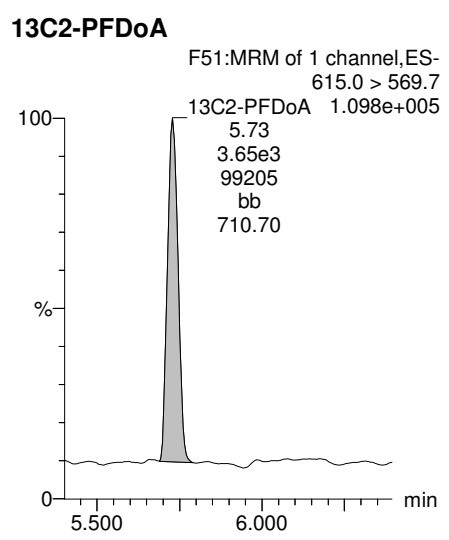
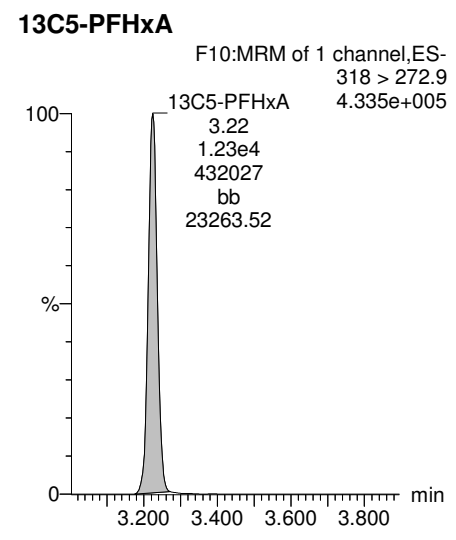
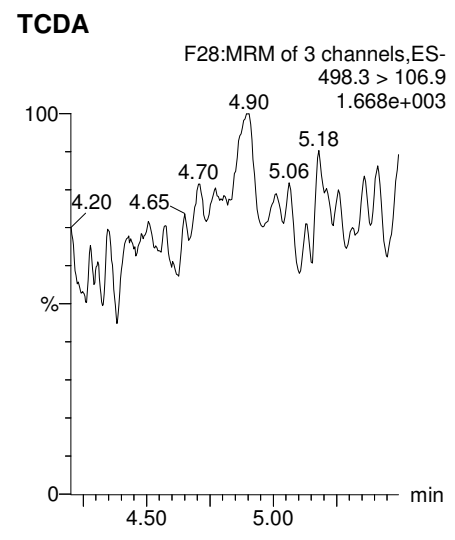
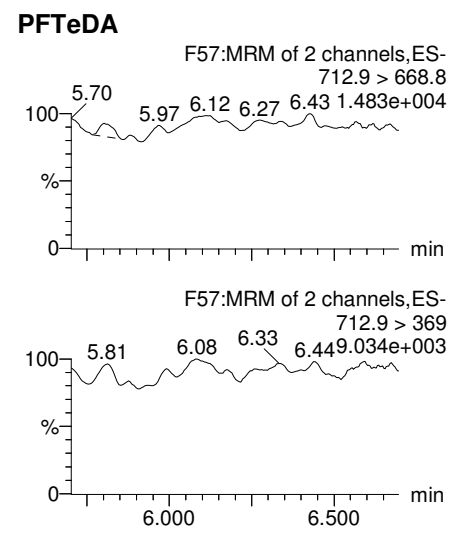
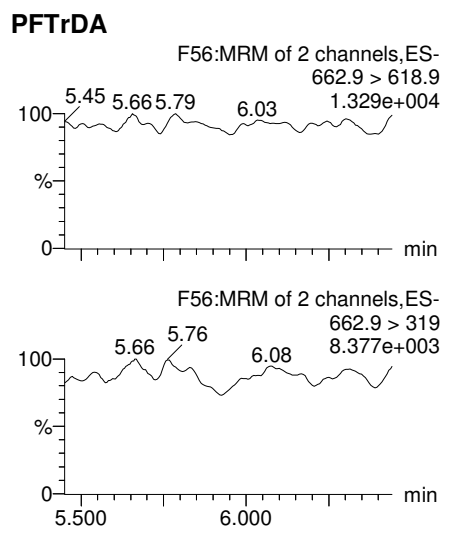
**13C2-PFDoA**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-59.qld

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Printed: Wednesday, December 27, 2017 14:18:42 Pacific Standard Time

Name: 171223M1\_59, Date: 23-Dec-2017, Time: 23:45:25, ID: B7L0145-BLK1 Method Blank 0.125, Description: Method Blank



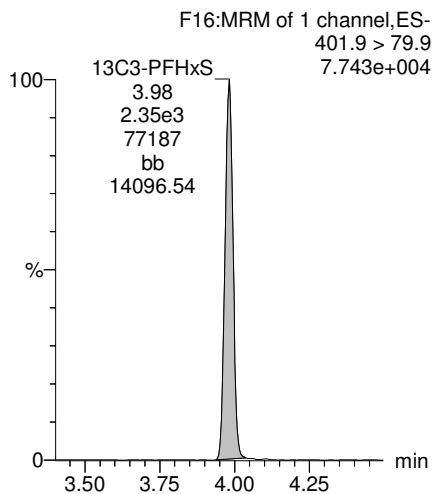


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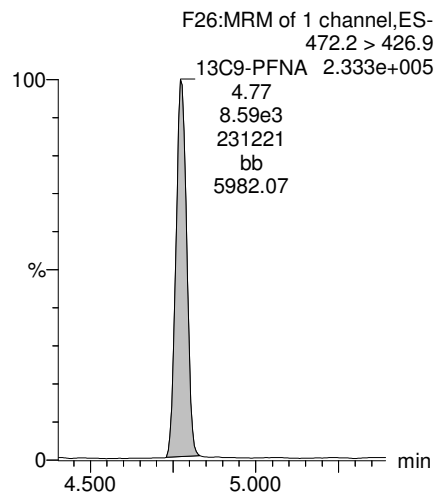
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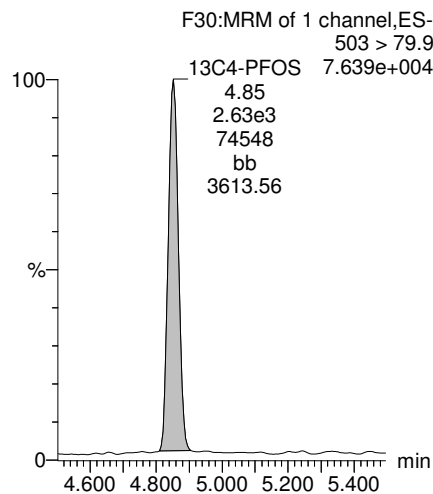
13C3-PFHxS



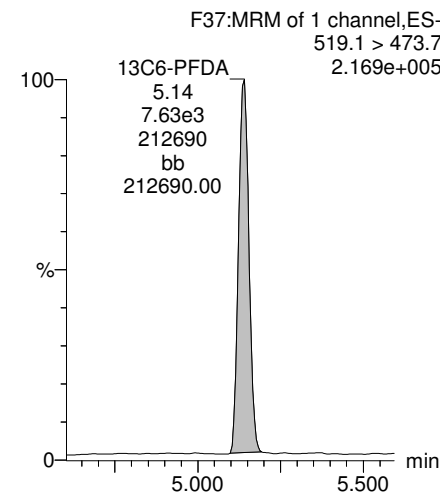
13C9-PFNA



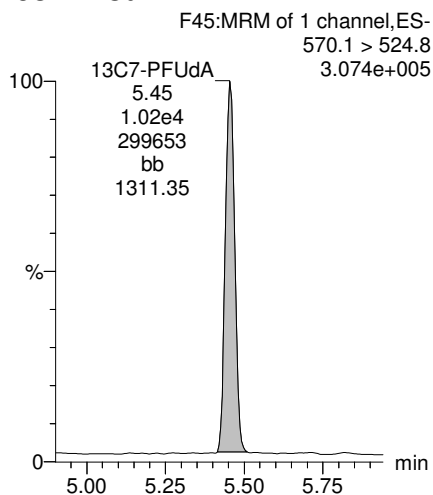
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\171228M2\171228M2-9.qld

Last Altered: Thursday, December 28, 2017 14:20:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:23:04 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_9, Date: 28-Dec-2017, Time: 14:05:33, ID: B7L0145-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	1.80e3	1.11e3	0.125		2.70	2.72	20.3	68.7780	86.0
2	4 PFHxA	313.2 > 268.9	8.46e3	2.36e3	0.125		3.20	3.21	17.9	70.5214	88.2
3	5 PFHpA	363.0 > 318.9	6.80e3	7.06e3	0.125		3.80	3.81	12.0	58.9000	73.6
4	6 L-PFHxS	398.9 > 79.6	1.37e3	9.44e2	0.125		3.95	3.95	18.1	68.1169	85.1
5	9 L-PFOA	413 > 368.7	8.73e3	9.46e3	0.125		4.32	4.31	11.5	72.4684	90.6
6	12 PFNA	463.0 > 418.8	7.68e3	7.68e3	0.125		4.75	4.73	12.5	65.1911	81.5
7	14 L-PFOS	499 > 79.9	2.45e3	2.27e3	0.125		4.83	4.81	13.5	86.9193	108.6
8	16 PFDA	513 > 468.8	5.70e3	5.43e3	0.125		5.11	5.10	13.1	69.6940	87.1
9	18 N-MeFOSAA	570.1 > 419	3.75e3	3.18e3	0.125		5.26	5.24	14.8	70.0832	87.6
10	19 N-EtFOSAA	584.2 > 419	3.54e3	3.49e3	0.125		5.42	5.39	12.7	84.3207	105.4
11	20 PFUdA	563.0 > 518.9	5.71e3	6.48e3	0.125		5.43	5.41	11.0	85.3559	106.7
12	22 PFDaA	612.9 > 569.0	5.91e3	3.95e3	0.125		5.70	5.68	18.7	84.9054	106.1

Dataset: U:\Q4.PRO\results\171228M2\171228M2-9.qld

Last Altered: Thursday, December 28, 2017 14:20:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:23:16 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_9, Date: 28-Dec-2017, Time: 14:05:33, ID: B7L0145-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	5.16e3	3.95e3	0.125		5.95	5.91	16.3	79.7053	99.6
2	25	PFTeDA	712.9 > 668.8	2.53e3	1.17e3	0.125		6.16	6.13	27.1	80.0523	100.1
3	33	13C3-PFBS	302. > 98.8	1.11e3	8.95e3	0.125	0.101	2.70	2.71	1.54	121.7707	121.8
4	34	13C2-PFHxA	315 > 269.8	2.36e3	8.95e3	0.125	0.601	3.20	3.21	3.29	43.8265	109.6
5	35	13C4-PFHpA	367.2 > 321.8	7.06e3	8.95e3	0.125	0.676	3.80	3.81	9.86	116.5728	116.6
6	36	18O2-PFHxS	403.0 > 102.6	9.44e2	2.26e3	0.125	0.347	3.95	3.95	5.21	120.3880	120.4
7	37	13C2-6:2 FTS	429.1 > 408.9	2.19e3	8.74e3	0.125	0.210	4.26	4.26	3.14	119.6272	119.6
8	38	13C2-PFOA	414.9 > 369.7	9.46e3	8.74e3	0.125	0.990	4.32	4.31	13.5	109.3566	109.4
9	39	13C5-PFNA	468.2 > 422.9	7.68e3	8.84e3	0.125	0.845	4.75	4.73	10.8	102.7088	102.7
10	40	13C8-PFOSA	506.1 > 77.7	1.00e3	8.68e3	0.125	0.199	4.81	4.81	1.44	57.7569	57.8
11	41	13C8-PFOS	507.0 > 79.9	2.27e3	2.35e3	0.125	0.865	4.83	4.81	12.1	111.7603	111.8
12	42	13C2-PFDA	515.1 > 469.9	5.43e3	6.55e3	0.125	0.886	5.11	5.10	10.4	93.4509	93.5
13	43	13C2-8:2 FTS	529.1 > 508.7	1.45e3	8.95e3	0.125	0.136	5.09	5.07	2.03	119.6065	119.6
14	44	d3-N-MeFOSAA	573.3 > 419	3.18e3	8.68e3	0.125	0.409	5.26	5.24	4.58	89.6496	89.6
15	45	d5-N-EtFOSAA	589.3 > 419	3.49e3	8.68e3	0.125	0.474	5.42	5.38	5.02	84.7885	84.8
16	46	13C2-PFUdA	565 > 519.8	6.48e3	8.68e3	0.125	0.928	5.43	5.41	9.33	80.4271	80.4
17	47	13C2-PFDoA	615.0 > 569.7	3.95e3	8.68e3	0.125	0.636	5.70	5.68	5.69	71.5908	71.6
18	49	13C2-PFTeDA	714.8 > 669.6	1.17e3	8.68e3	0.125	0.163	6.16	6.13	1.69	82.8654	82.9
19	55	13C5-PFHxA	318 > 272.9	8.95e3	8.95e3	0.125	1.000	3.20	3.21	12.5	100.0000	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.26e3	2.26e3	0.125	1.000	3.95	3.95	12.5	100.0000	100.0
21	57	13C8-PFOA	421.3 > 376	8.74e3	8.74e3	0.125	1.000	4.32	4.32	12.5	100.0000	100.0
22	58	13C9-PFNA	472.2 > 426.9	8.84e3	8.84e3	0.125	1.000	4.75	4.73	12.5	100.0000	100.0
23	59	13C4-PFOS	503 > 79.9	2.35e3	2.35e3	0.125	1.000	4.83	4.81	12.5	100.0000	100.0
24	60	13C6-PFDA	519.1 > 473.7	6.55e3	6.55e3	0.125	1.000	5.11	5.10	12.5	100.0000	100.0
25	61	13C7-PFUdA	570.1 > 524.8	8.68e3	8.68e3	0.125	1.000	5.43	5.41	12.5	100.0000	100.0
26	62	Total PFHxS	398.9 > 79.6	1.37e3	9.44e2	0.125		4.00		18.1	68.1169	
27	63	Total PFOA	413 > 368.7	8.73e3	9.46e3	0.125		4.30		11.5	72.4684	
28	64	Total PFOS	499 > 79.9	2.45e3	2.27e3	0.125		4.80		13.5	86.9193	
29	65	Total N-MeFOSAA	570.1 > 419	3.75e3	3.18e3	0.125		5.20		14.8	70.0832	
30	66	Total N-EtFOSAA	584.2 > 419	3.54e3	3.49e3	0.125		5.40		12.7	84.3207	

Dataset: U:\Q4.PRO\results\171228M2\171228M2-9.qld

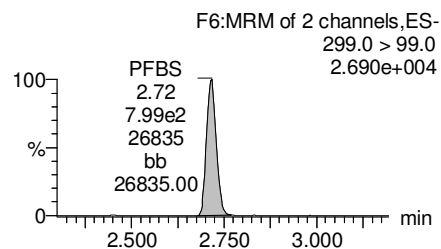
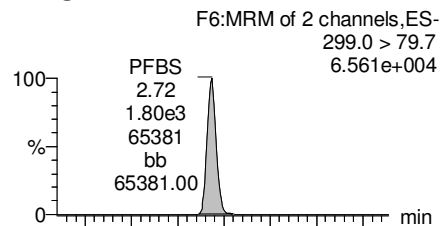
Last Altered: Thursday, December 28, 2017 14:20:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:23:16 Pacific Standard Time

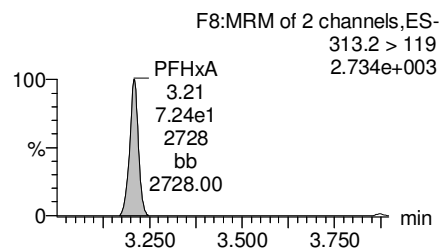
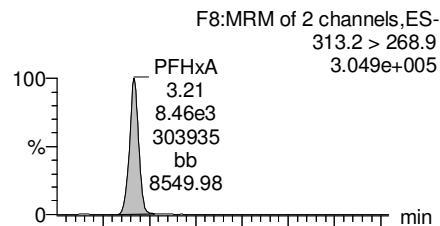
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Name: 171228M2\_9, Date: 28-Dec-2017, Time: 14:05:33, ID: B7L0145-BS1 OPR 0.125, Description: OPR

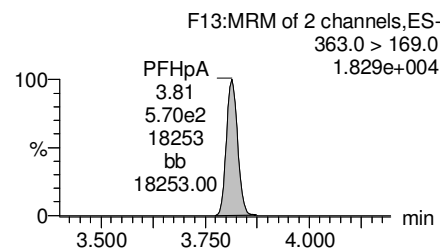
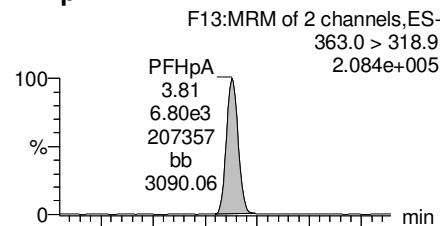
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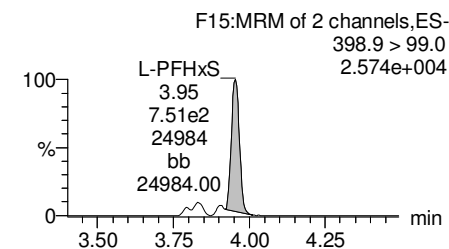
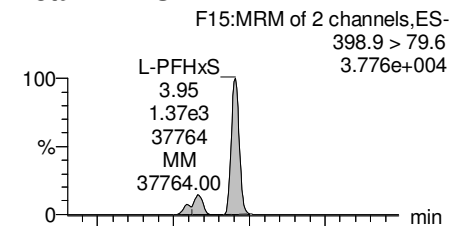
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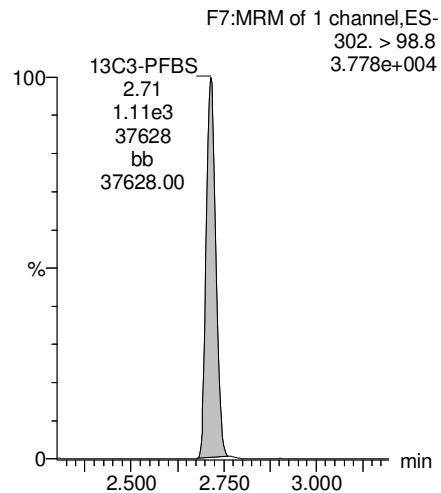
PFHpA



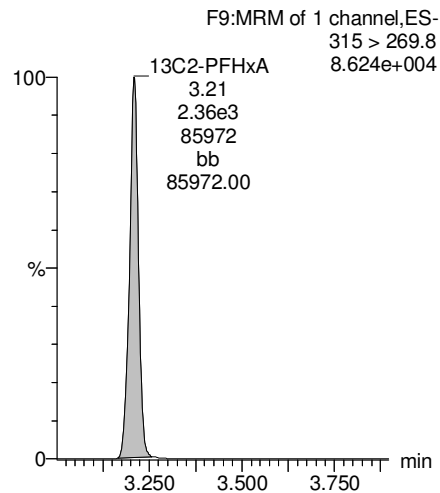
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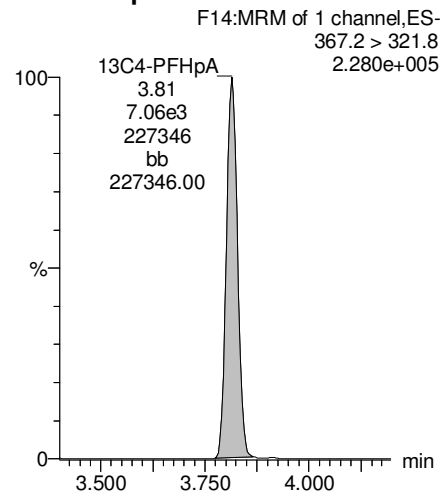
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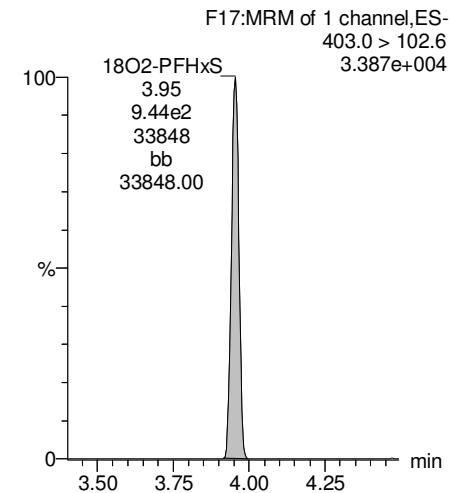
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



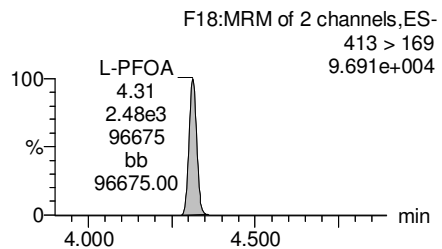
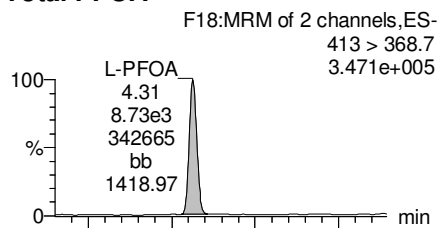
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Last Altered: Thursday, December 28, 2017 14:20:02 Pacific Standard Time

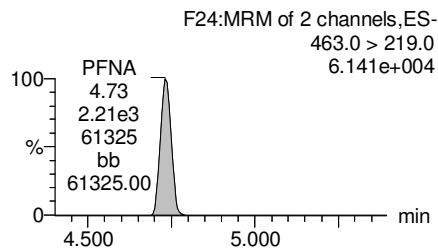
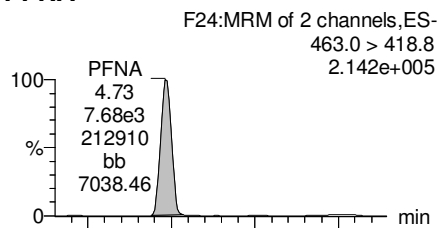
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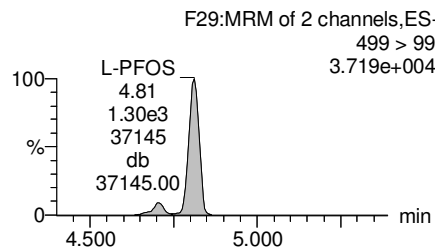
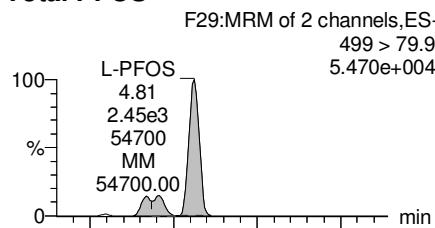
**Total PFOA**



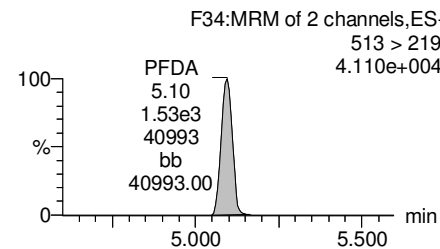
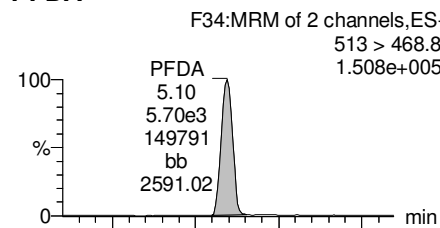
**PFNA**



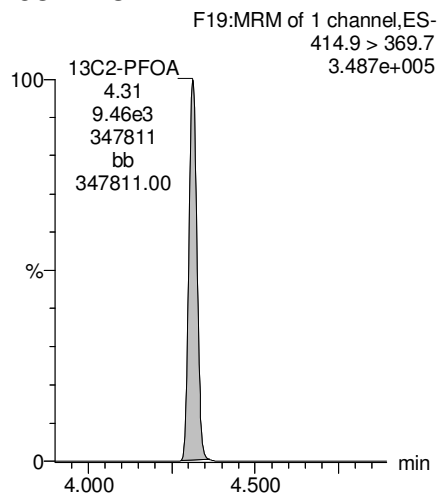
**Total PFOS**



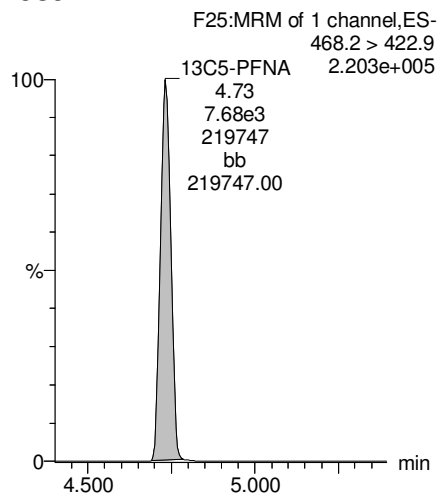
**PFDA**



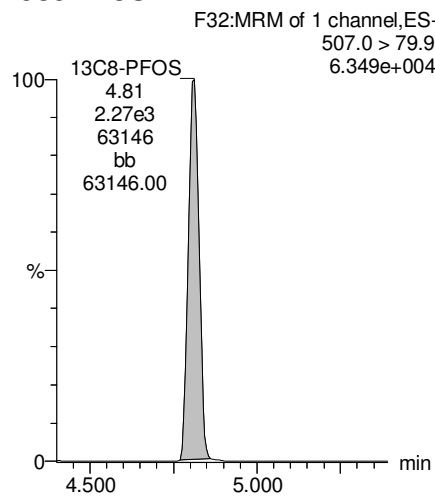
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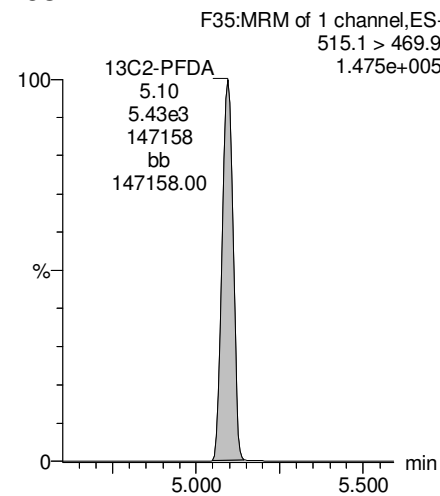
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**



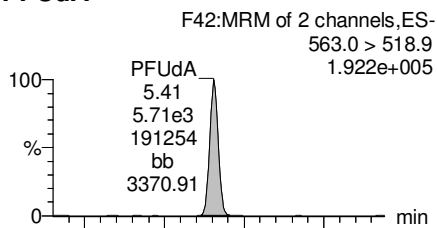
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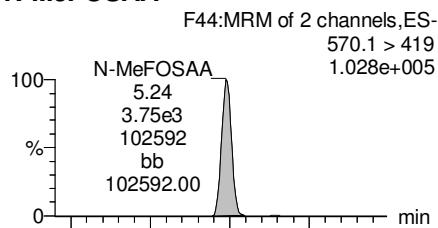
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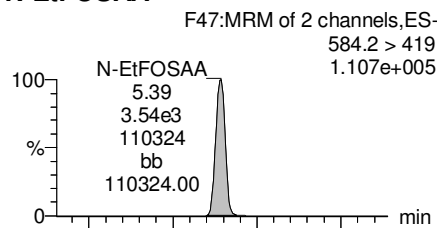
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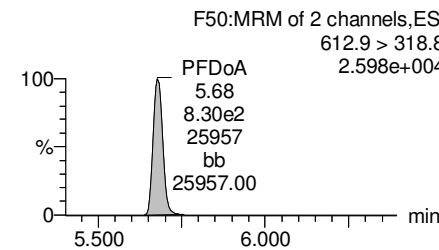
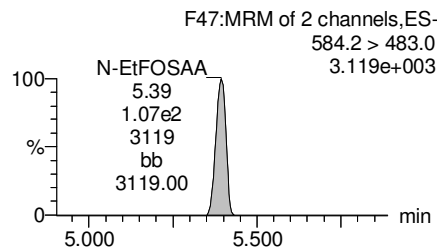
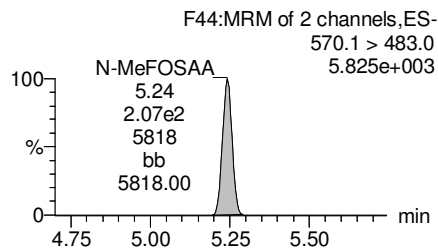
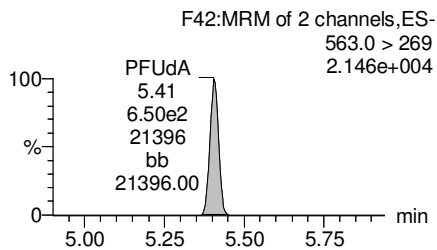
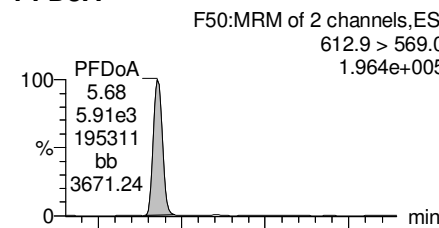
**N-MeFOSAA**



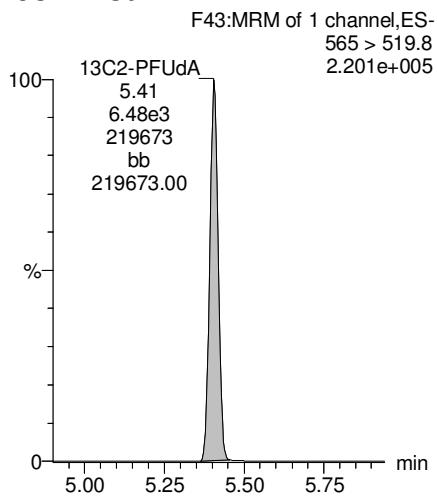
**N-EtFOSAA**



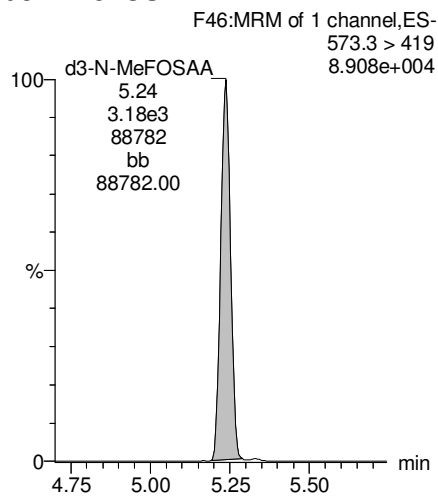
**PFDaA**



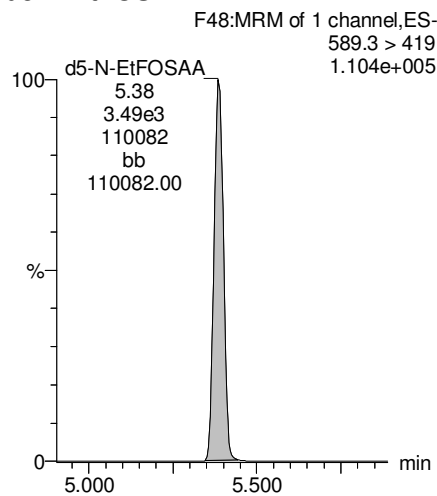
**13C2-PFUdA**



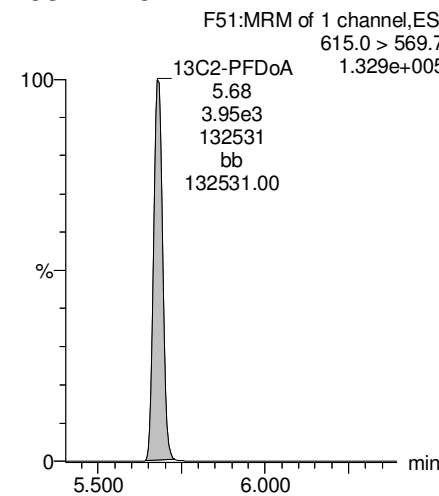
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDaA**



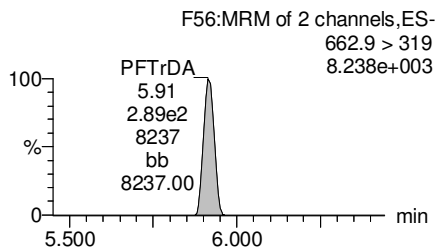
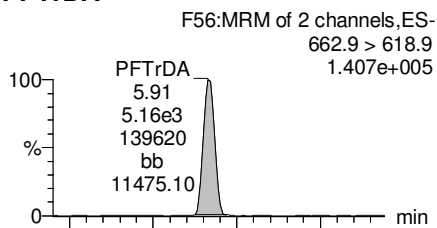
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Last Altered: Thursday, December 28, 2017 14:20:02 Pacific Standard Time

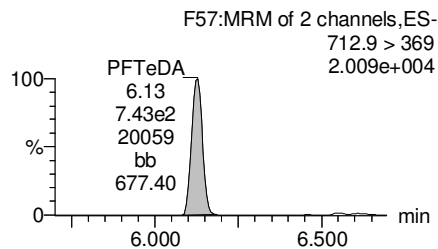
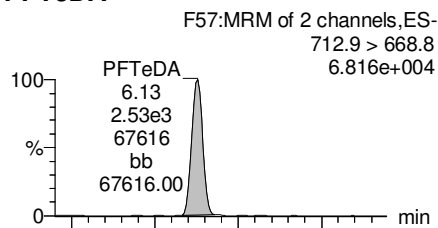
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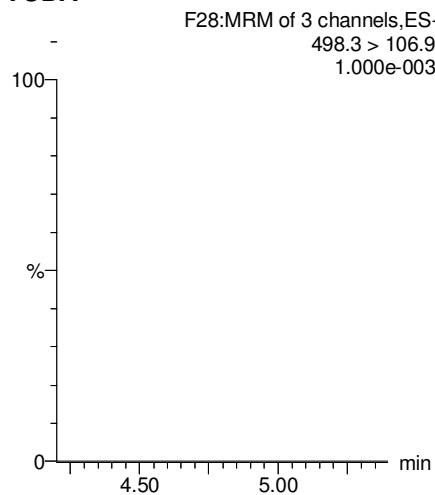
**PFTTrDA**



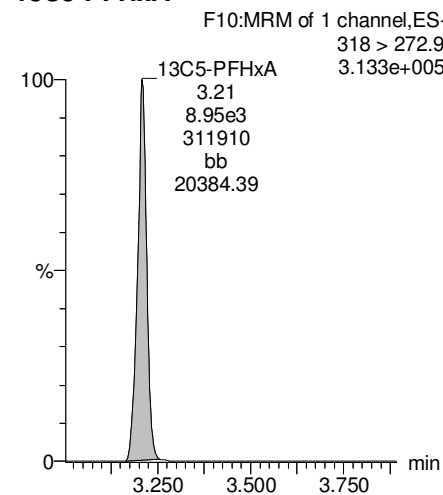
**PFTeDA**



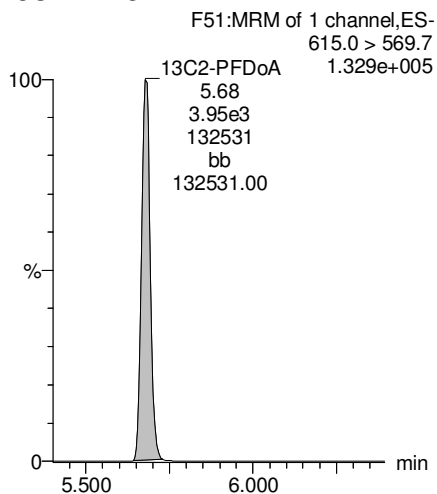
**TCDA**



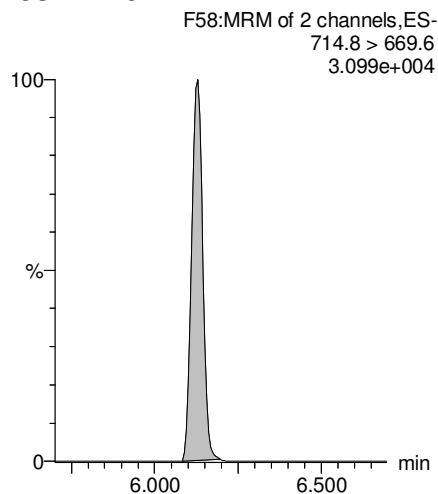
**13C5-PFHxA**



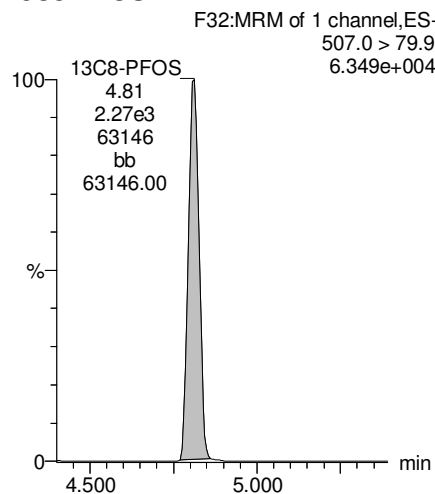
**13C2-PFDoA**



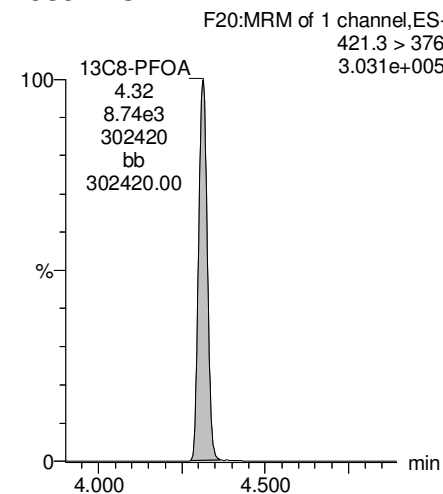
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**



Dataset: U:\Q4.PRO\results\171228M2\171228M2-9.qld

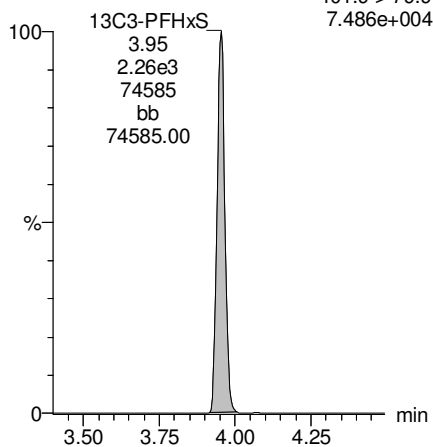
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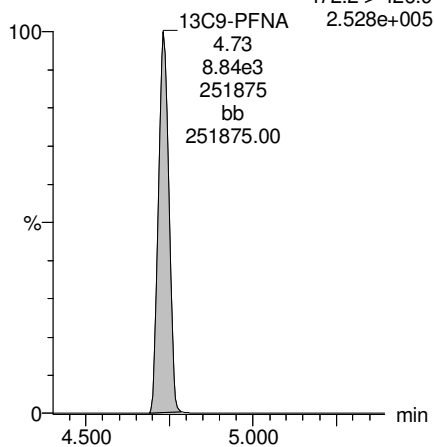
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.486e+004



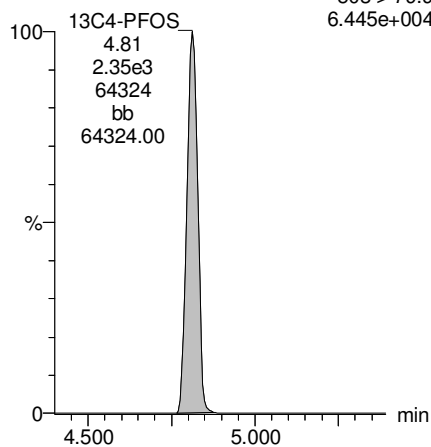
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.528e+005



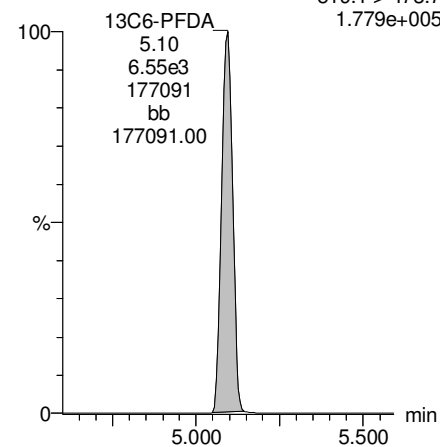
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
6.445e+004



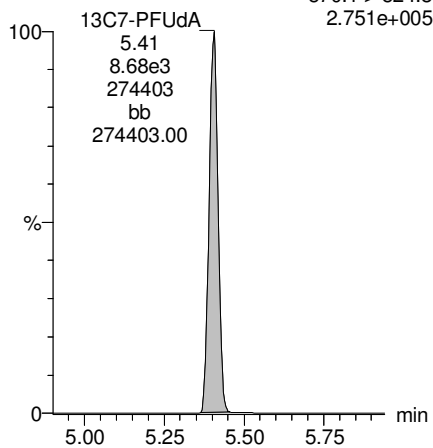
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
1.779e+005



**13C7-PFUDa**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.751e+005





Dataset: U:\Q4.PRO\results\171223M1\171223M1-62.qld

Last Altered: Wednesday, December 27, 2017 14:32:30 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:32:59 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		1.01e3	0.119		2.70				
2	4	PFHxA	313.2 > 268.9	1.73e2	3.05e3	0.119		3.20	3.22	0.284	1.596	
3	5	PFHpA	363.0 > 318.9		5.77e3	0.119		3.80				
4	6	L-PFHxS	398.9 > 79.6	2.51e1	9.80e2	0.119		3.95	3.99	0.320		
5	9	L-PFOA	413 > 368.7	2.57e2	7.84e3	0.119		4.32	4.35	0.409	1.824	
6	12	PFNA	463.0 > 418.8		7.19e3	0.119		4.75				
7	14	L-PFOS	499 > 79.9		2.16e3	0.119		4.83				
8	16	PFDA	513 > 468.8		5.40e3	0.119		5.11				
9	18	N-MeFOSAA	570.1 > 419		1.91e3	0.119		5.26				
10	19	N-EtFOSAA	584.2 > 419		2.25e3	0.119		5.42				
11	20	PFUdA	563.0 > 518.9		6.13e3	0.119		5.43				
12	22	PFDoA	612.9 > 569.0		4.69e3	0.119		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-62.qld

Last Altered: Wednesday, December 27, 2017 14:32:30 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:35:15 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.69e3	0.119		5.95				
2	25 PFTeDA	712.9 > 668.8		4.56e3	0.119		6.16				
3	33 13C3-PFBS	302. > 98.8	1.01e3	1.09e4	0.119	0.106	2.70	2.73	1.16	91.576	87.3
4	34 13C2-PFHxA	315 > 269.8	3.05e3	1.09e4	0.119	0.743	3.20	3.22	3.49	39.389	93.9
5	35 13C4-PFHpA	367.2 > 321.8	5.77e3	1.09e4	0.119	0.557	3.80	3.84	6.61	99.665	95.0
6	36 18O2-PFHxS	403.0 > 102.6	9.80e2	2.30e3	0.119	0.433	3.95	3.98	5.33	103.463	98.6
7	37 13C2-6:2 FTS	429.1 > 408.9	1.90e3	8.24e3	0.119	0.275	4.26	4.29	2.89	88.307	84.2
8	38 13C2-PFOA	414.9 > 369.7	7.84e3	8.24e3	0.119	1.141	4.32	4.35	11.9	87.482	83.4
9	39 13C5-PFNA	468.2 > 422.9	7.19e3	9.33e3	0.119	0.963	4.75	4.78	9.64	84.028	80.1
10	40 13C8-PFOSA	506.1 > 77.7	2.02e3	5.48e3	0.119	0.373	4.81	4.83	4.60	103.445	98.6
11	41 13C8-PFOS	507.0 > 79.9	2.16e3	2.55e3	0.119	1.075	4.83	4.85	10.6	82.478	78.6
12	42 13C2-PFDA	515.1 > 469.9	5.40e3	5.98e3	0.119	1.213	5.11	5.15	11.3	78.055	74.4
13	43 13C2-8:2 FTS	529.1 > 508.7	1.05e3	1.09e4	0.119	0.109	5.09	5.11	1.21	92.521	88.2
14	44 d3-N-MeFOSAA	573.3 > 419	1.91e3	5.48e3	0.119	0.405	5.26	5.29	4.35	90.034	85.8
15	45 d5-N-EtFOSAA	589.3 > 419	2.25e3	5.48e3	0.119	0.490	5.42	5.44	5.14	88.069	83.9
16	46 13C2-PFUdA	565 > 519.8	6.13e3	5.48e3	0.119	1.154	5.43	5.46	14.0	101.781	97.0
17	47 13C2-PFDoA	615.0 > 569.7	4.69e3	5.48e3	0.119	0.623	5.70	5.73	10.7	144.371	137.6
18	49 13C2-PFTeDA	714.8 > 669.6	4.56e3	5.48e3	0.119	0.706	6.16	6.18	10.4	123.819	118.0
19	55 13C5-PFHxA	318 > 272.9	1.09e4	1.09e4	0.119	1.000	3.20	3.22	12.5	104.919	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.30e3	2.30e3	0.119	1.000	3.95	3.98	12.5	104.919	100.0
21	57 13C8-PFOA	421.3 > 376	8.24e3	8.24e3	0.119	1.000	4.32	4.35	12.5	104.919	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.33e3	9.33e3	0.119	1.000	4.75	4.78	12.5	104.919	100.0
23	59 13C4-PFOS	503 > 79.9	2.55e3	2.55e3	0.119	1.000	4.83	4.85	12.5	104.919	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.98e3	5.98e3	0.119	1.000	5.11	5.15	12.5	104.919	100.0
25	61 13C7-PFUdA	570.1 > 524.8	5.48e3	5.48e3	0.119	1.000	5.43	5.46	12.5	104.919	100.0
26	62 Total PFHxS	398.9 > 79.6	2.51e1	9.80e2	0.119		4.00		0.000		
27	63 Total PFOA	413 > 368.7	2.57e2	7.84e3	0.119		4.30		0.409	1.824	
28	64 Total PFOS	499 > 79.9	0.00e0	2.16e3	0.119		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	1.91e3	0.119		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.25e3	0.119		5.40		0.000		

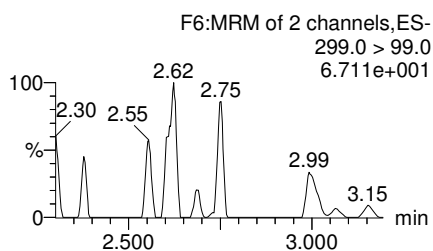
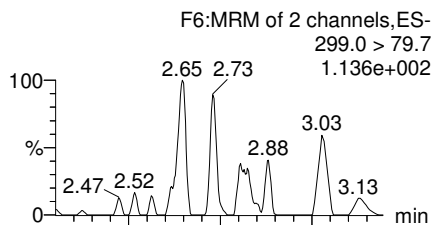
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Printed: Wednesday, December 27, 2017 14:35:15 Pacific Standard Time

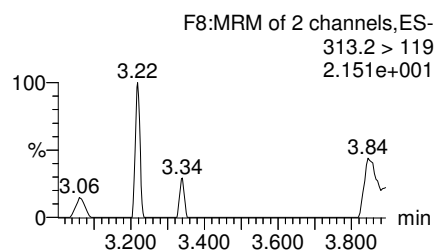
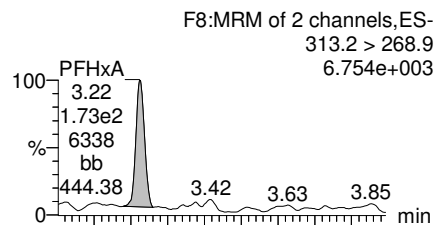
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Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-23-17\_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1\_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

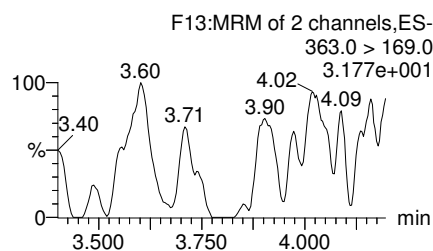
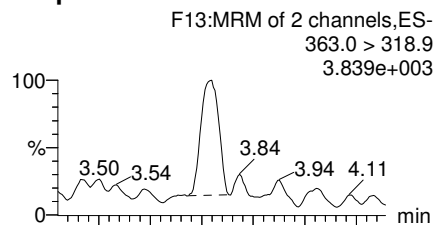
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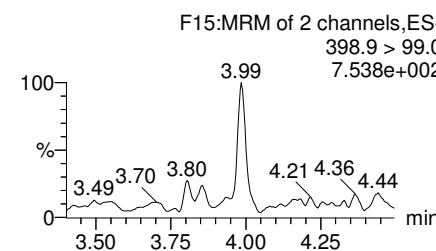
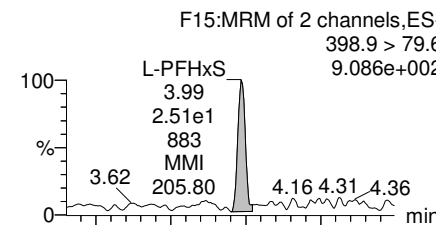
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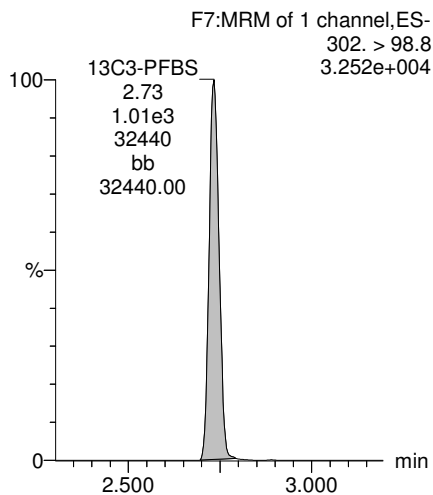
PFHpA



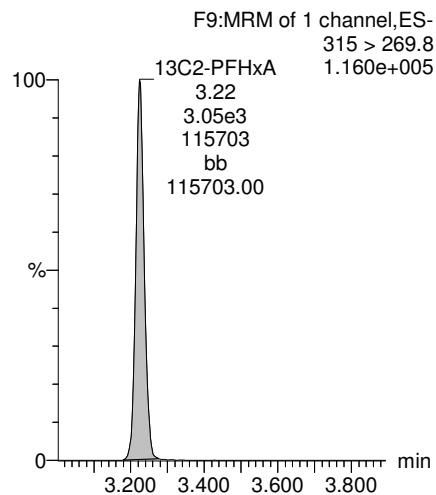
Total PFHxS



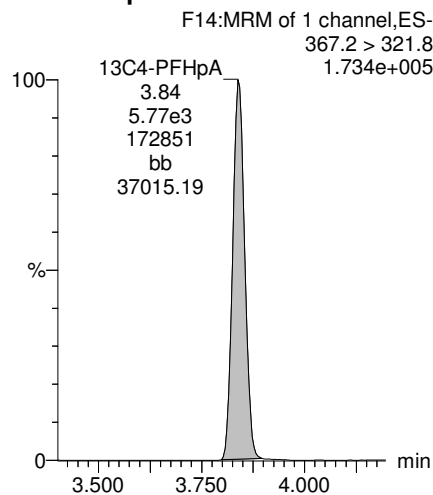
13C3-PFBS



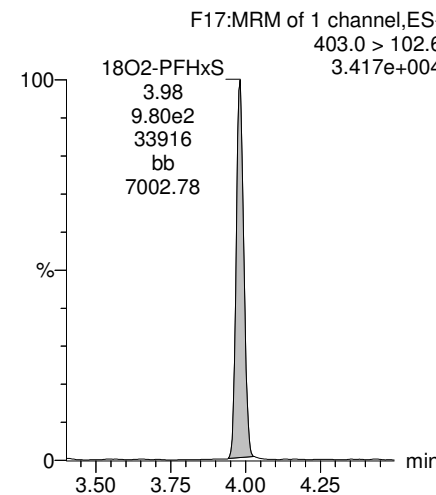
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

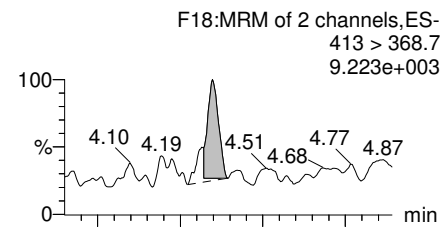


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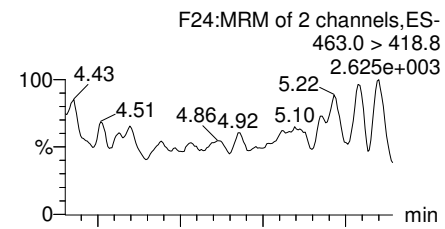
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Name: 171223M1\_62, Date: 24-Dec-2017, Time: 00:18:58, ID: 1701911-01 WI-A06-6-S-17-1217 0.11914, Description: WI-A06-6-S-17-1217

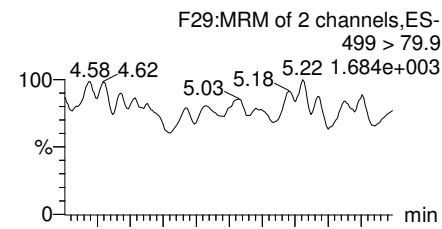
**Total PFOA**



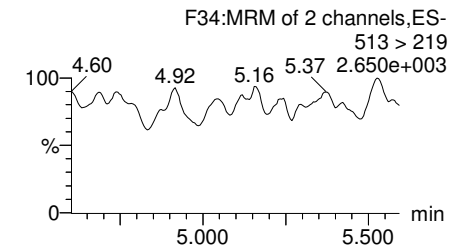
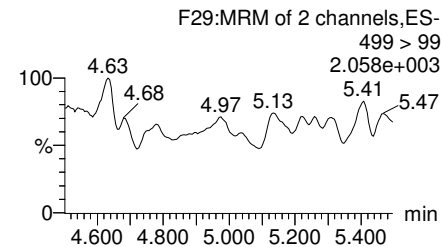
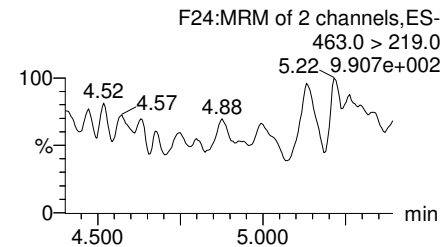
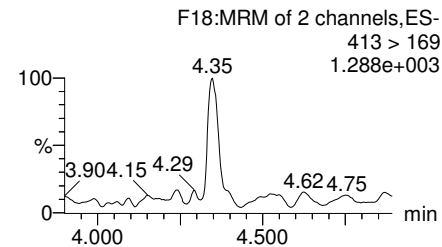
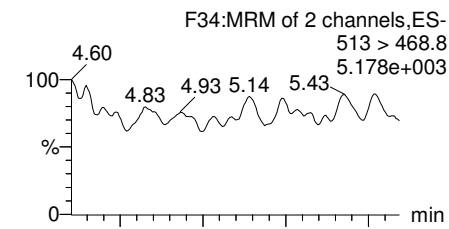
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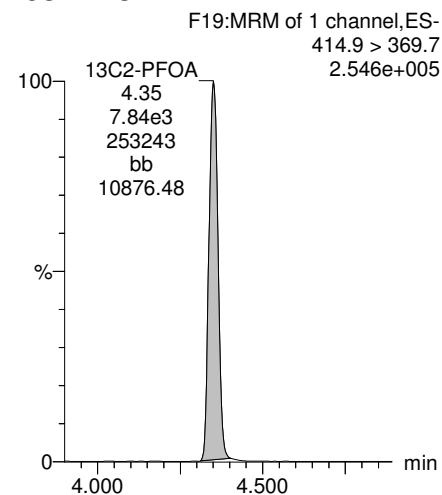
**Total PFOS**



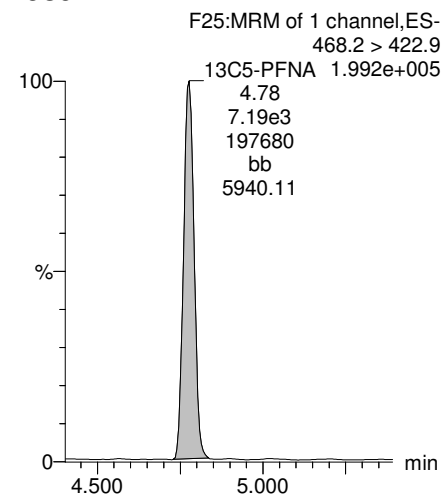
**PFDA**



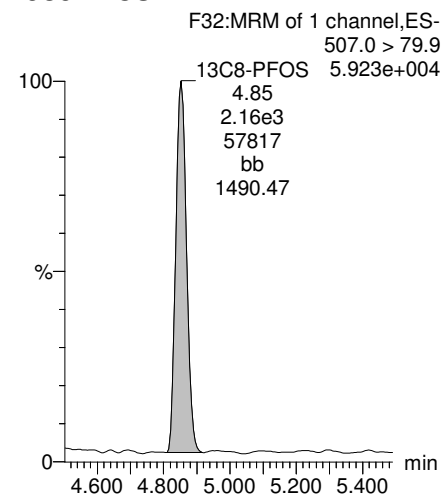
**13C2-PFOA**



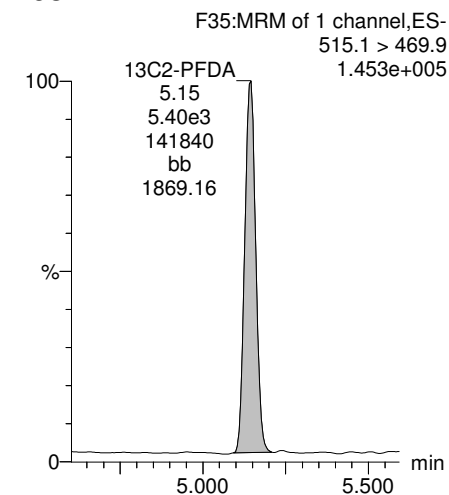
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

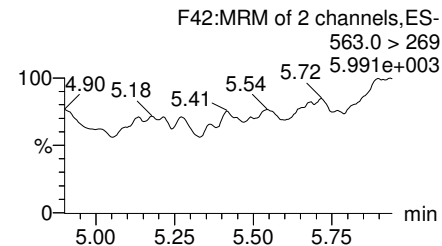
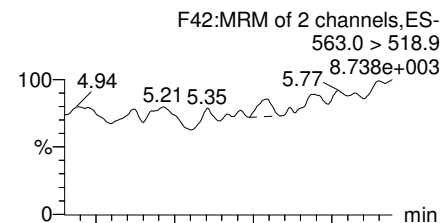


Dataset: U:\Q4.PRO\results\171223M1\171223M1-62.qld

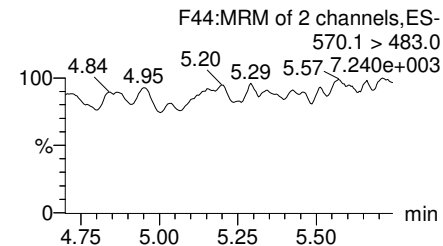
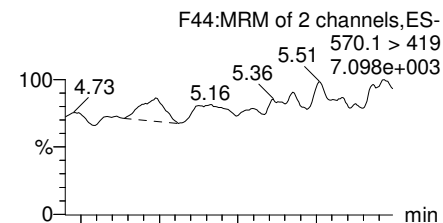
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Printed: Wednesday, December 27, 2017 14:35:15 Pacific Standard Time

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

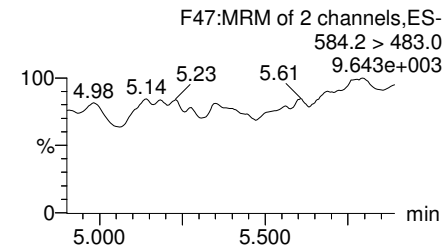
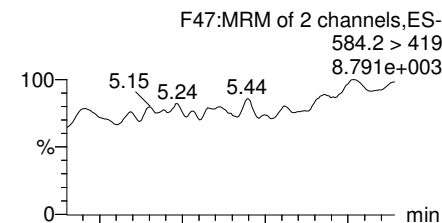
**PFUDa**



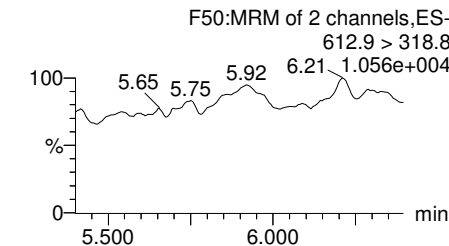
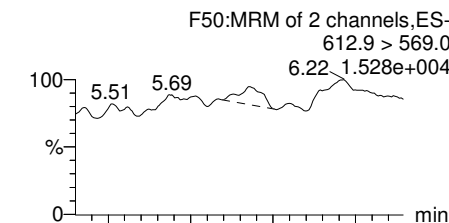
**N-MeFOSAA**



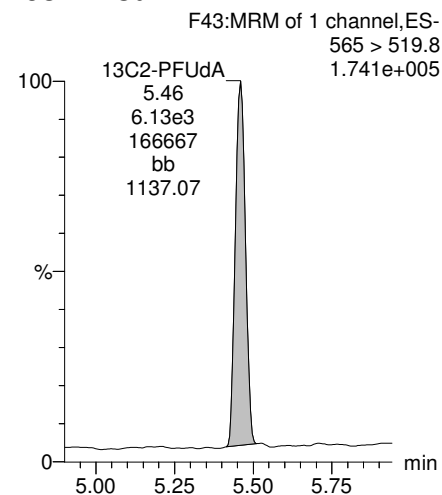
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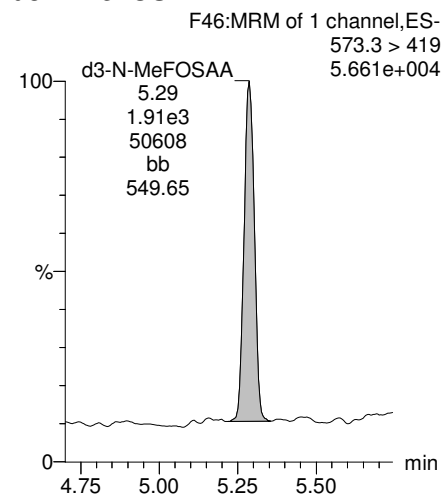
**PFDaA**



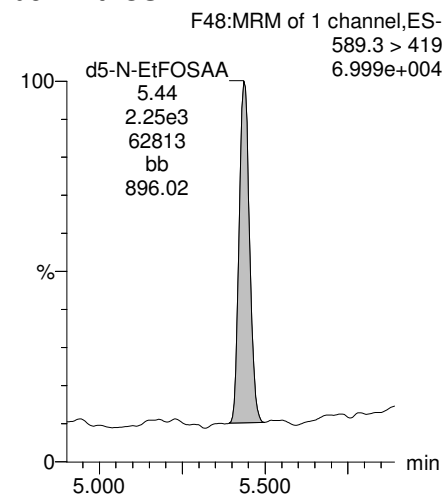
**13C2-PFUDa**



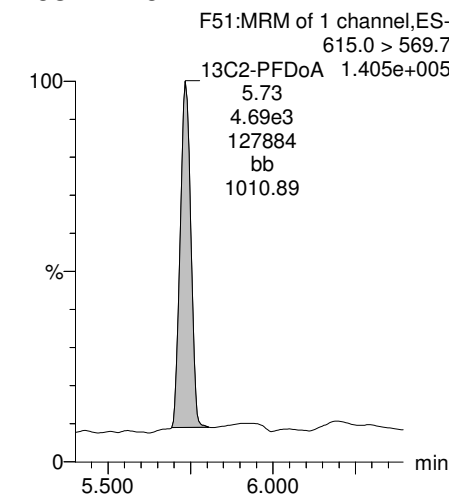
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDaA**

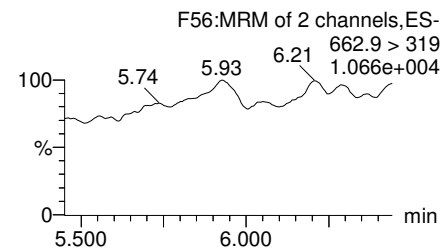
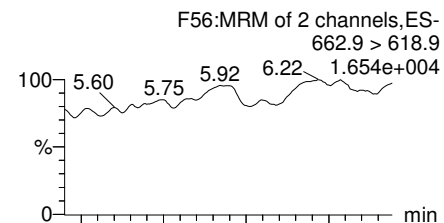


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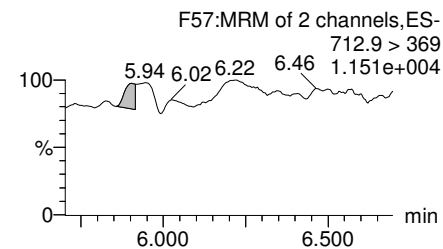
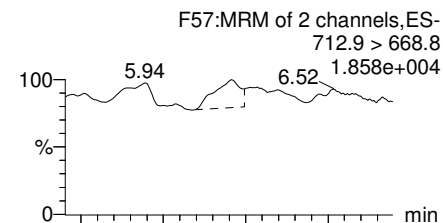
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Name: 171223M1\_62, Date: 24-Dec-2017, Time: 00:18:58, ID: 1701911-01 WI-A06-6-S-17-1217 0.11914, Description: WI-A06-6-S-17-1217

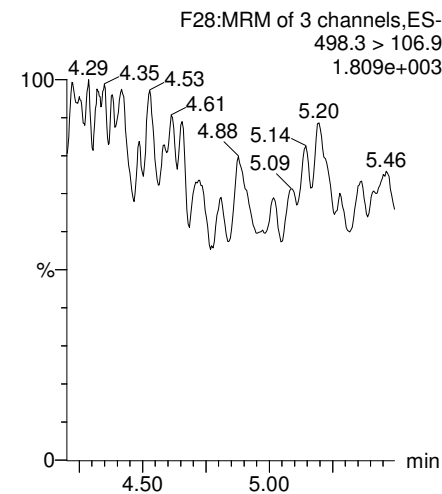
**PFTrDA**



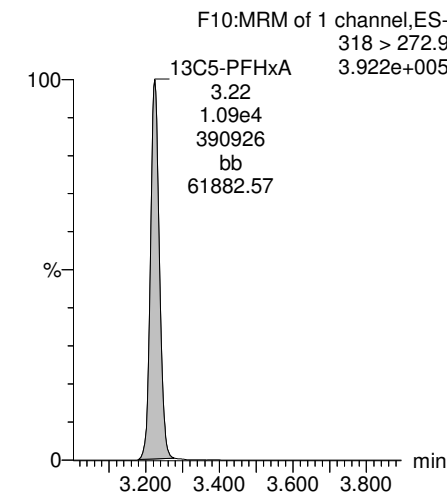
**PFTeDA**



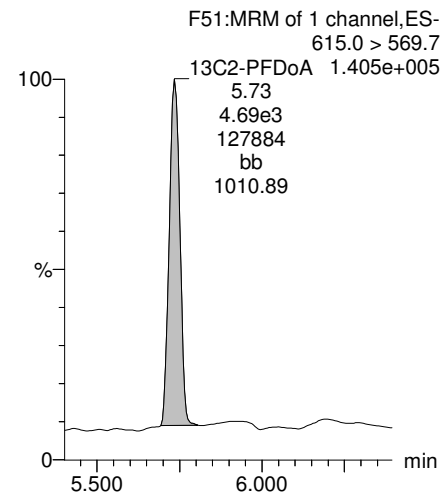
**TCDA**



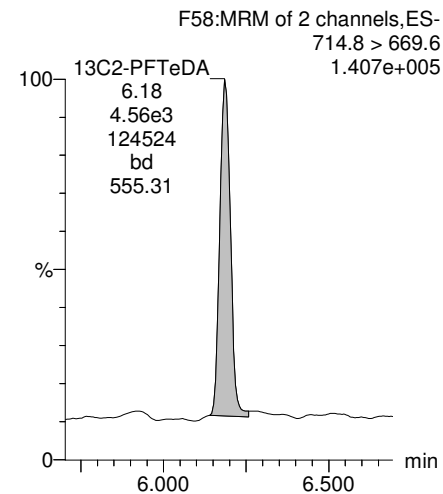
**13C5-PFHxA**



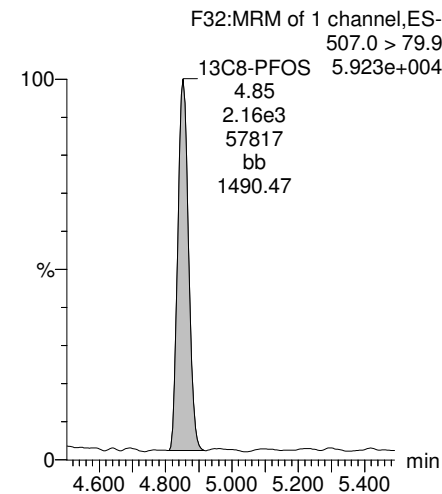
**13C2-PFDoA**



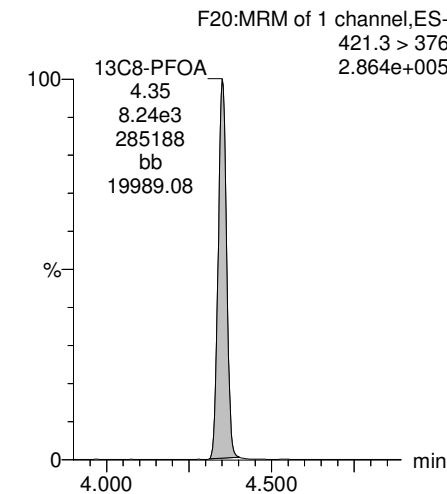
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**

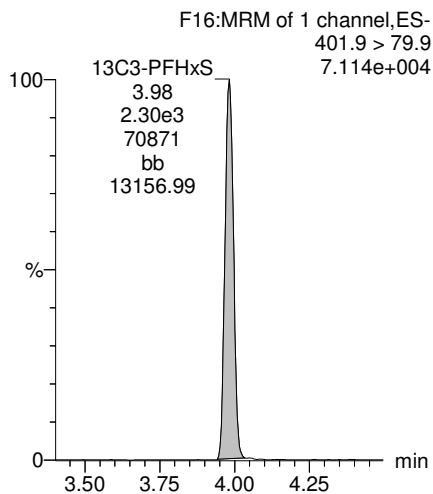


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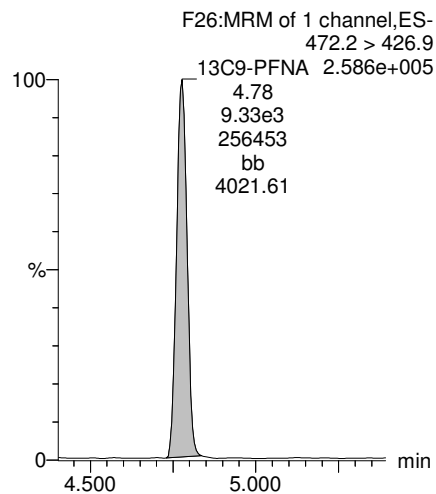
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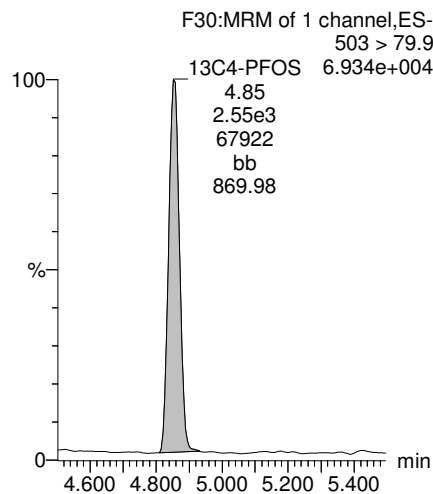
**13C3-PFHxS**



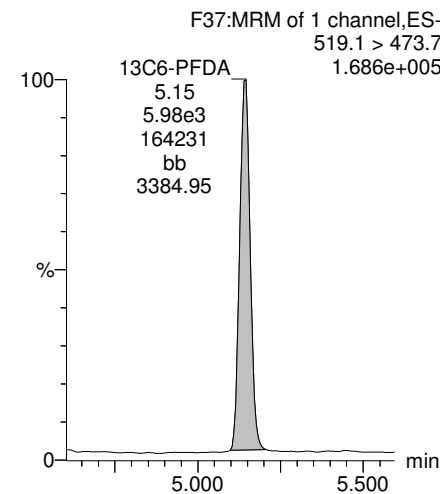
**13C9-PFNA**



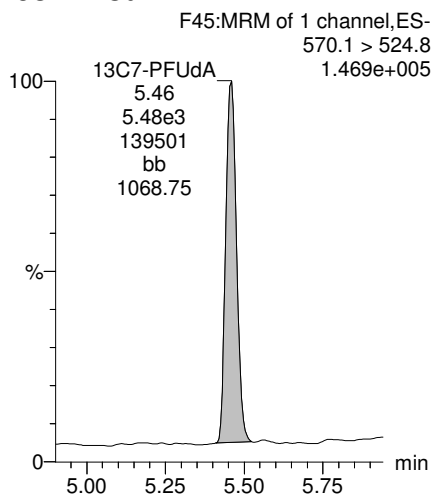
**13C4-PFOS**



**13C6-PFDA**



**13C7-PFudA**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-63.qld

Last Altered: Wednesday, December 27, 2017 14:45:04 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:45:23 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\_63, Date: 24-Dec-2017, Time: 00:30:08, ID: 1701911-03 WI-A06-EB03-120617 0.11706, Description: WI-A06-EB03-120617

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.12e2	0.117		2.70				
2	4 PFHxA	313.2 > 268.9		2.74e3	0.117		3.20				
3	5 PFHpA	363.0 > 318.9		5.75e3	0.117		3.80				
4	6 L-PFHxS	398.9 > 79.6		8.53e2	0.117		3.95				
5	9 L-PFOA	413 > 368.7		7.74e3	0.117		4.32				
6	12 PFNA	463.0 > 418.8		6.58e3	0.117		4.75				
7	14 L-PFOS	499 > 79.9		1.92e3	0.117		4.83				
8	16 PFDA	513 > 468.8		6.20e3	0.117		5.11				
9	18 N-MeFOSAA	570.1 > 419		2.00e3	0.117		5.26				
10	19 N-EtFOSAA	584.2 > 419		2.48e3	0.117		5.42				
11	20 PFUdA	563.0 > 518.9		5.51e3	0.117		5.43				
12	22 PFDoA	612.9 > 569.0		3.37e3	0.117		5.70				



Dataset: U:\Q4.PRO\results\171223M1\171223M1-63.qld

Last Altered: Wednesday, December 27, 2017 14:45:04 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:45:37 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\_63, Date: 24-Dec-2017, Time: 00:30:08, ID: 1701911-03 WI-A06-EB03-120617 0.11706, Description: WI-A06-EB03-120617

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.37e3	0.117		5.95				
2	25 PFTeDA	712.9 > 668.8		3.90e3	0.117		6.16				
3	33 13C3-PFBS	302. > 98.8	9.12e2	1.02e4	0.117	0.106	2.70	2.74	1.12	90.056	84.3
4	34 13C2-PFHxA	315 > 269.8	2.74e3	1.02e4	0.117	0.743	3.20	3.23	3.35	38.547	90.2
5	35 13C4-PFHpA	367.2 > 321.8	5.75e3	1.02e4	0.117	0.557	3.80	3.84	7.05	108.124	101.3
6	36 18O2-PFHxS	403.0 > 102.6	8.53e2	2.21e3	0.117	0.433	3.95	3.98	4.82	95.101	89.1
7	37 13C2-6:2 FTS	429.1 > 408.9	1.89e3	6.62e3	0.117	0.275	4.26	4.30	3.56	110.854	103.8
8	38 13C2-PFOA	414.9 > 369.7	7.74e3	6.62e3	0.117	1.141	4.32	4.35	14.6	109.391	102.4
9	39 13C5-PFNA	468.2 > 422.9	6.58e3	8.22e3	0.117	0.963	4.75	4.78	10.0	88.846	83.2
10	40 13C8-PFOSA	506.1 > 77.7	1.38e3	7.11e3	0.117	0.373	4.81	4.84	2.42	55.463	51.9
11	41 13C8-PFOS	507.0 > 79.9	1.92e3	2.67e3	0.117	1.075	4.83	4.86	9.00	71.520	67.0
12	42 13C2-PFDA	515.1 > 469.9	6.20e3	7.47e3	0.117	1.213	5.11	5.15	10.4	73.084	68.4
13	43 13C2-8:2 FTS	529.1 > 508.7	8.28e2	1.02e4	0.117	0.109	5.09	5.11	1.01	79.262	74.2
14	44 d3-N-MeFOSAA	573.3 > 419	2.00e3	7.11e3	0.117	0.405	5.26	5.29	3.51	73.925	69.2
15	45 d5-N-EtFOSAA	589.3 > 419	2.48e3	7.11e3	0.117	0.490	5.42	5.44	4.35	75.786	71.0
16	46 13C2-PFUdA	565 > 519.8	5.51e3	7.11e3	0.117	1.154	5.43	5.46	9.67	71.587	67.0
17	47 13C2-PFDoA	615.0 > 569.7	3.37e3	7.11e3	0.117	0.623	5.70	5.73	5.93	81.307	76.1
18	49 13C2-PFTeDA	714.8 > 669.6	3.90e3	7.11e3	0.117	0.706	6.16	6.18	6.85	82.910	77.6
19	55 13C5-PFHxA	318 > 272.9	1.02e4	1.02e4	0.117	1.000	3.20	3.23	12.5	106.783	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.21e3	2.21e3	0.117	1.000	3.95	3.98	12.5	106.783	100.0
21	57 13C8-PFOA	421.3 > 376	6.62e3	6.62e3	0.117	1.000	4.32	4.35	12.5	106.783	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.22e3	8.22e3	0.117	1.000	4.75	4.78	12.5	106.783	100.0
23	59 13C4-PFOS	503 > 79.9	2.67e3	2.67e3	0.117	1.000	4.83	4.85	12.5	106.783	100.0
24	60 13C6-PFDA	519.1 > 473.7	7.47e3	7.47e3	0.117	1.000	5.11	5.14	12.5	106.783	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.11e3	7.11e3	0.117	1.000	5.43	5.46	12.5	106.783	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	8.53e2	0.117		4.00		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	7.74e3	0.117		4.30		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	1.92e3	0.117		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.00e3	0.117		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.48e3	0.117		5.40		0.000		

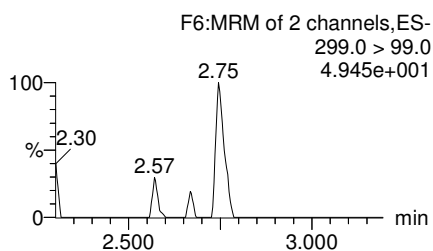
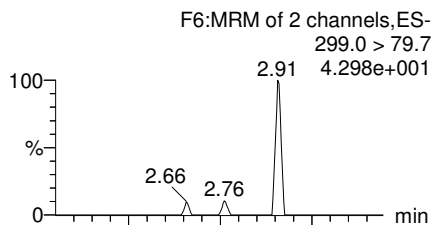
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Printed: Wednesday, December 27, 2017 14:45:37 Pacific Standard Time

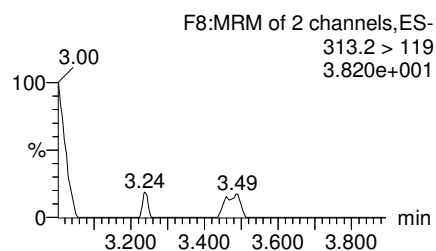
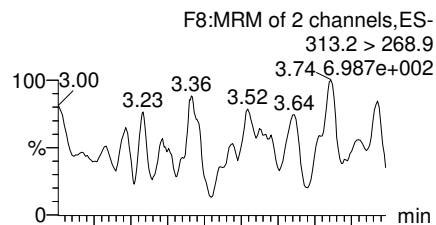
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Name: 171223M1\_63, Date: 24-Dec-2017, Time: 00:30:08, ID: 1701911-03 WI-A06-EB03-120617 0.11706, Description: WI-A06-EB03-120617

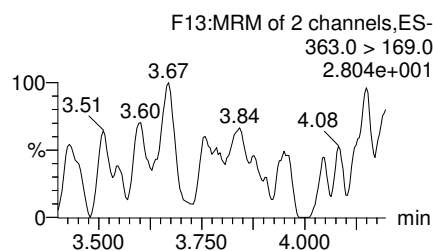
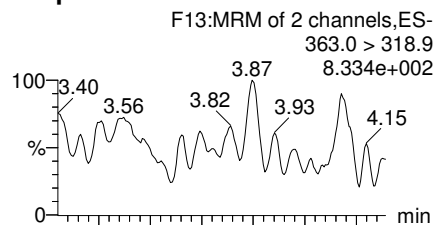
**PFBS**



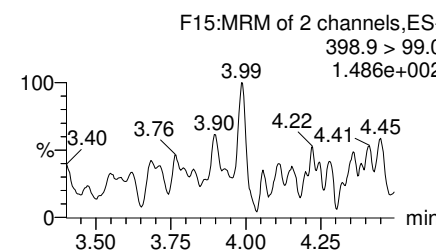
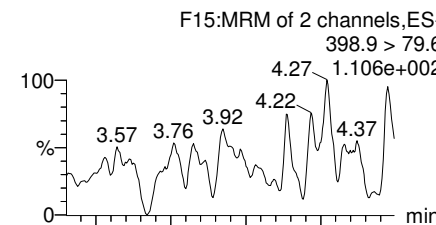
**PFHxA**



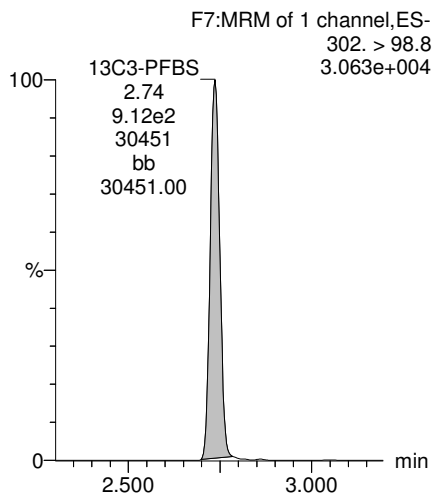
**PFHpA**



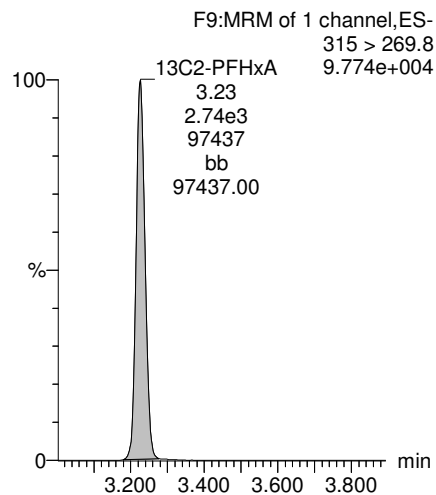
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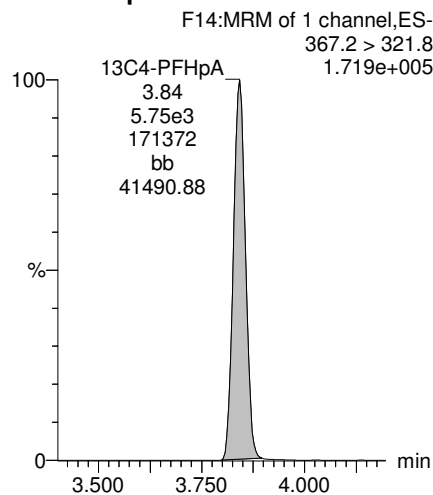
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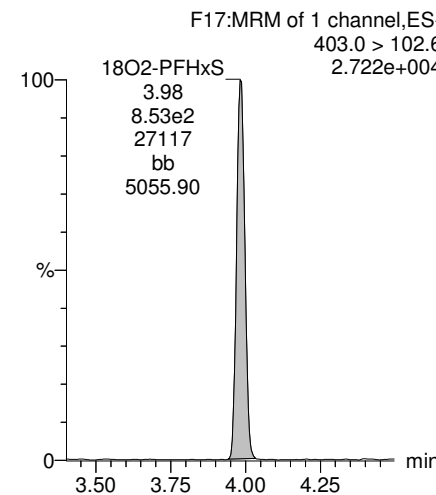
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

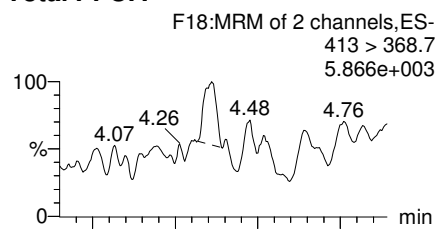


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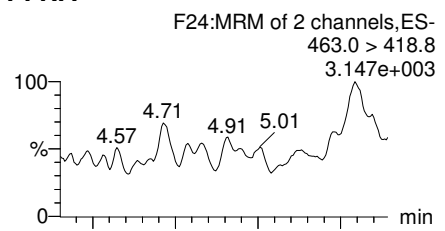
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Name: 171223M1\_63, Date: 24-Dec-2017, Time: 00:30:08, ID: 1701911-03 WI-A06-EB03-120617 0.11706, Description: WI-A06-EB03-120617

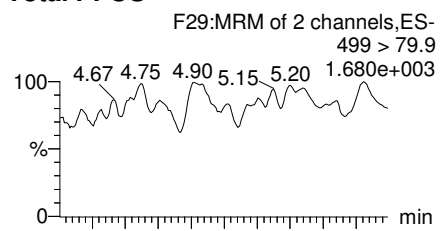
**Total PFOA**



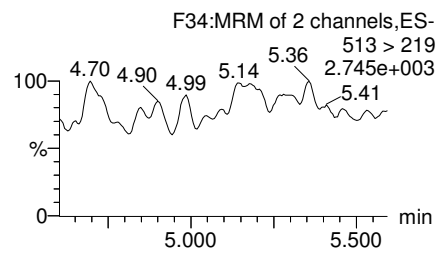
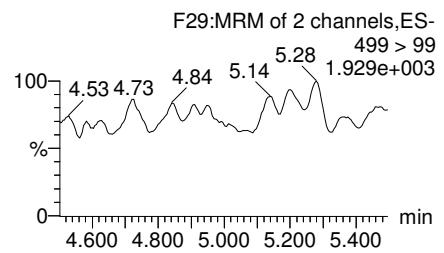
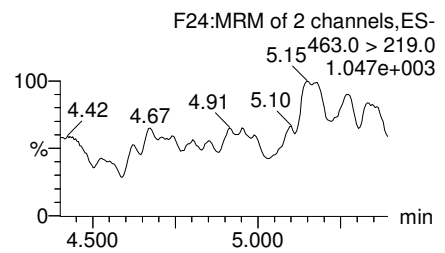
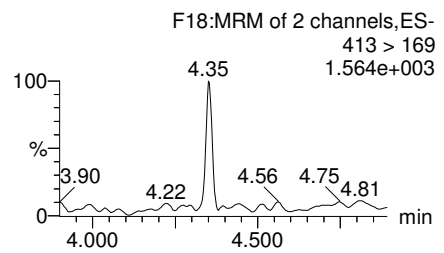
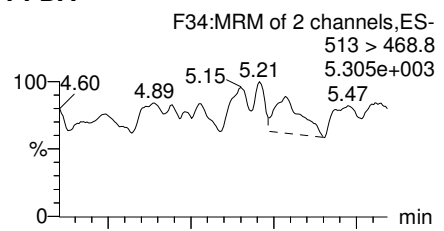
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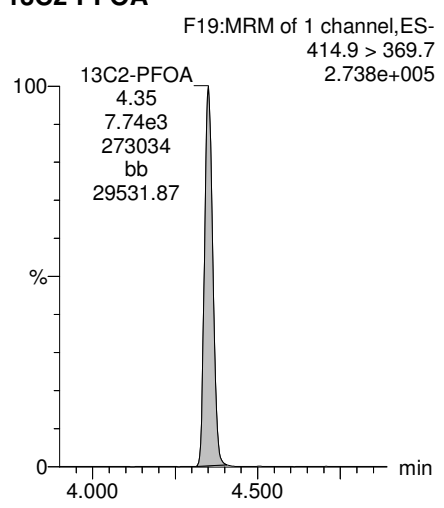
**Total PFOS**



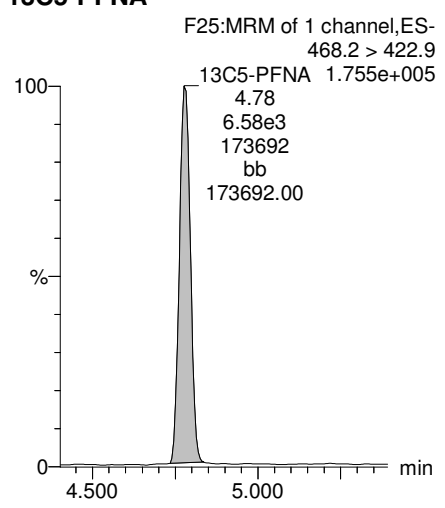
**PFDA**



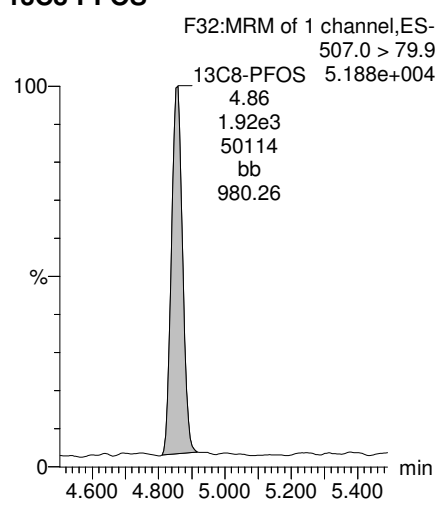
**13C2-PFOA**



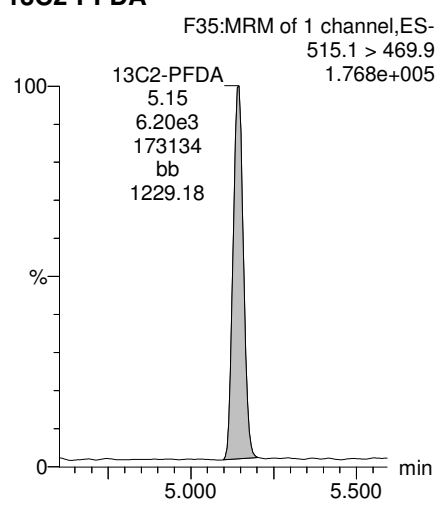
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

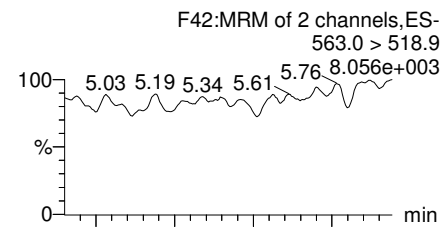


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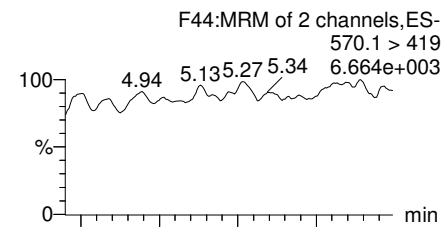
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Printed: Wednesday, December 27, 2017 14:45:37 Pacific Standard Time

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

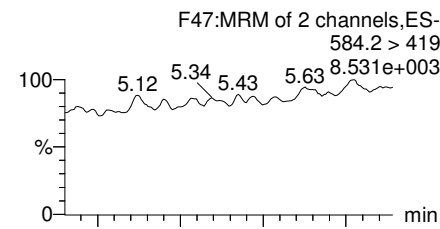
**PFUdA**



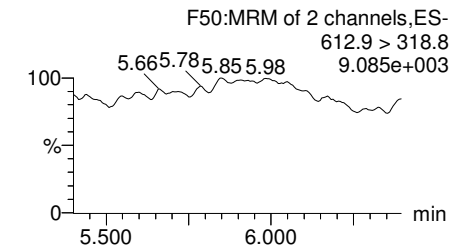
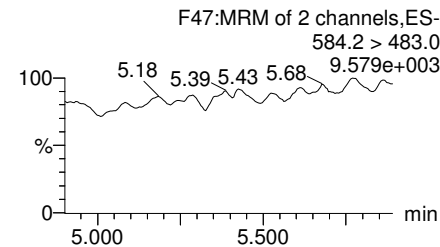
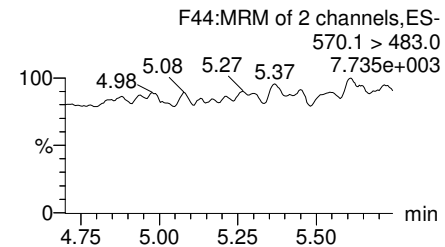
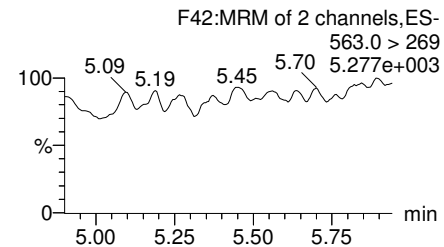
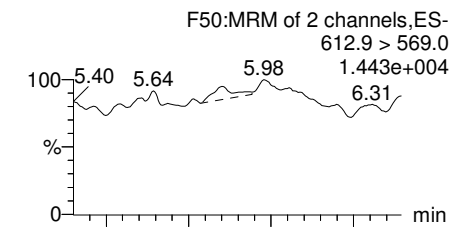
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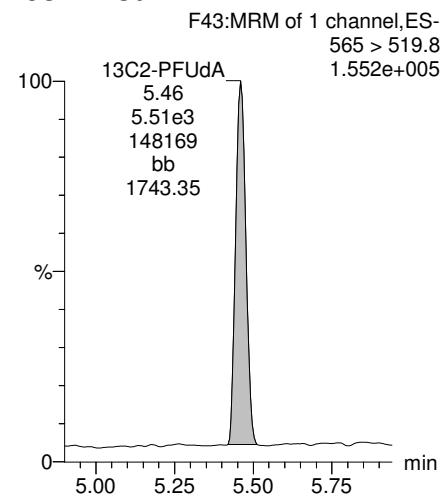
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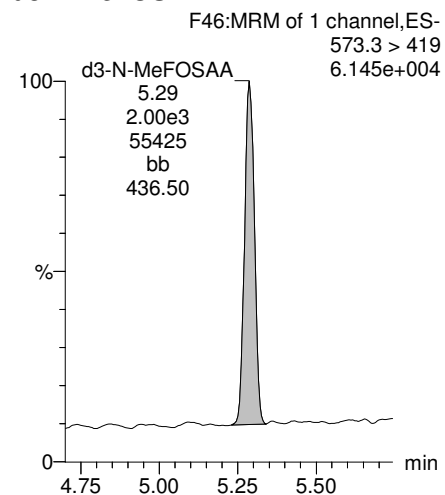
**PFDoA**



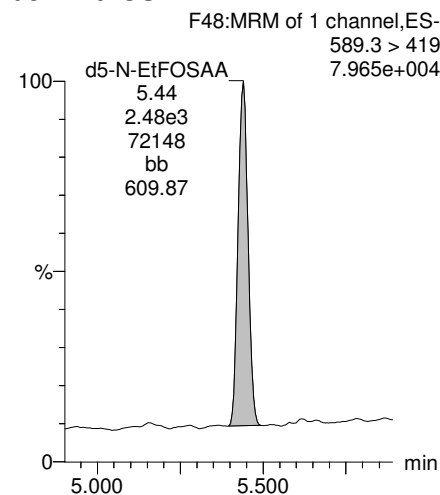
**13C2-PFUdA**



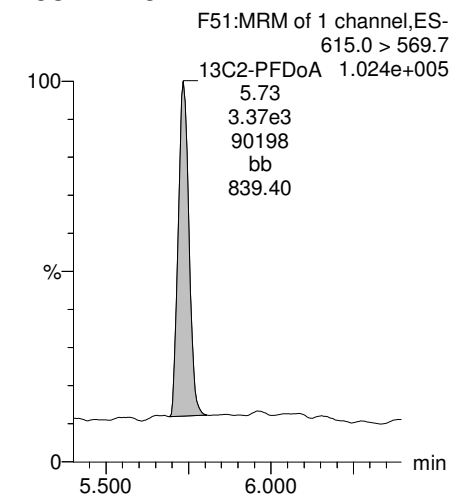
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



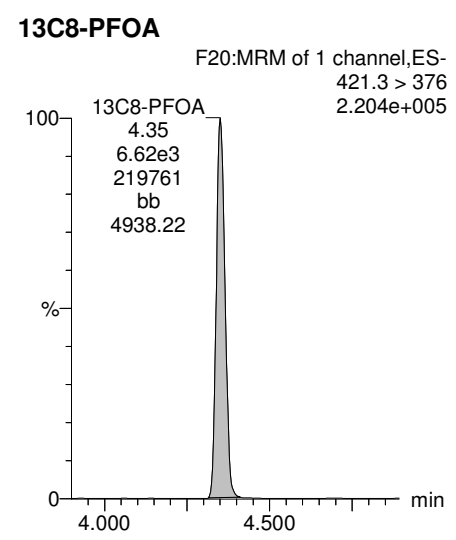
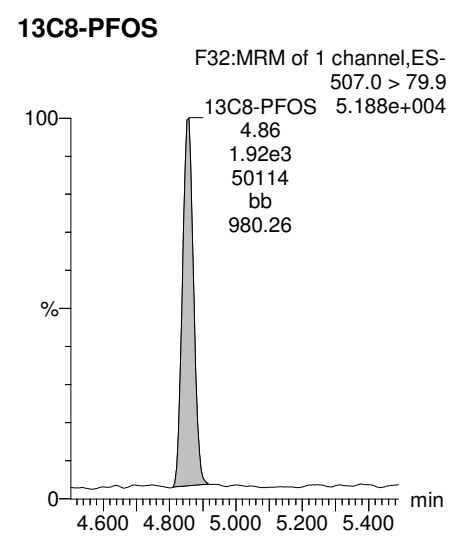
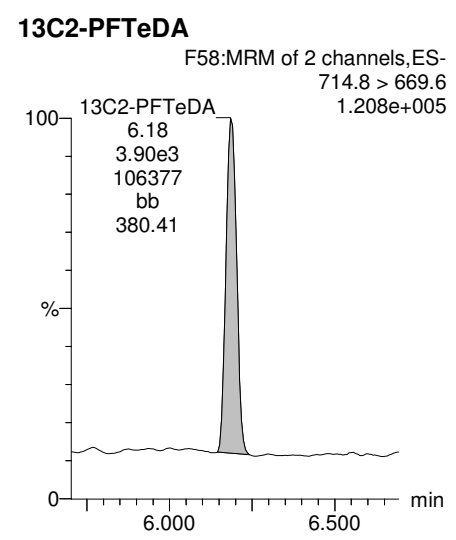
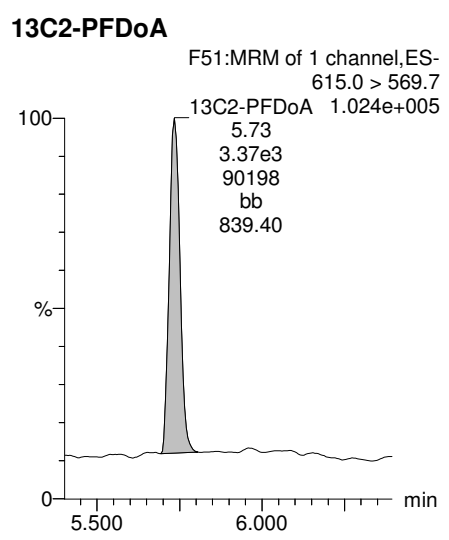
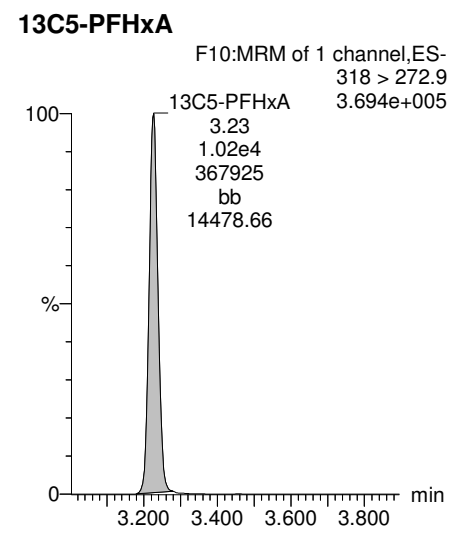
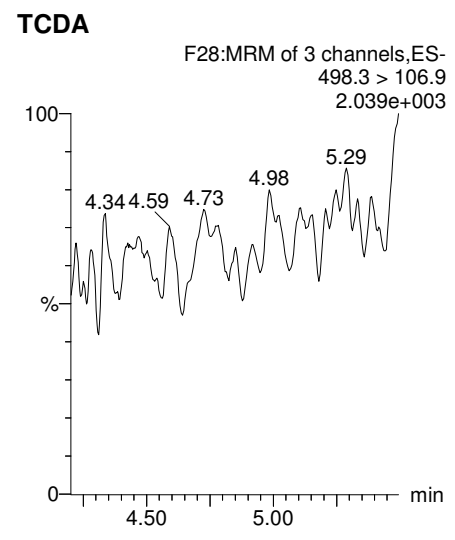
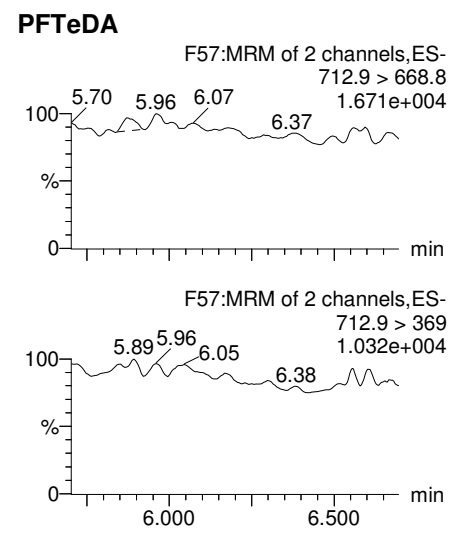
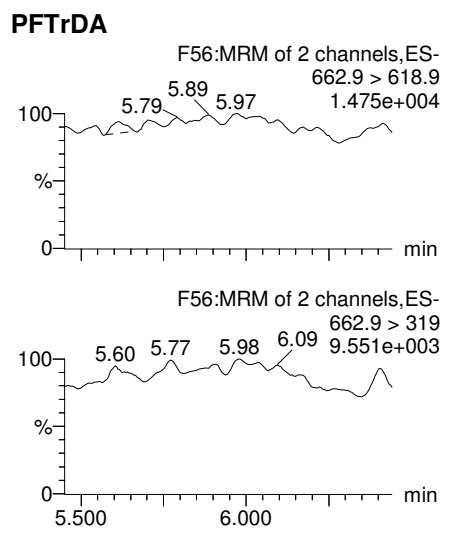
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Dataset: U:\Q4.PRO\results\171223M1\171223M1-63.qld

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Printed: Wednesday, December 27, 2017 14:45:37 Pacific Standard Time

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

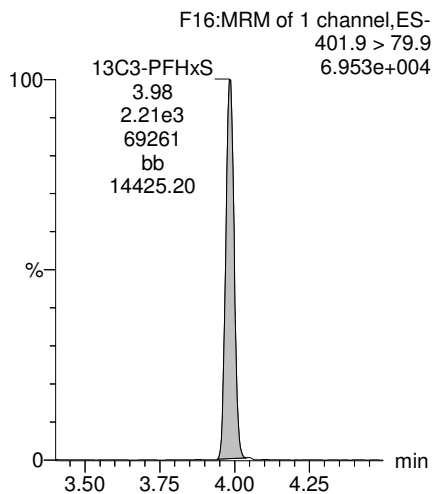


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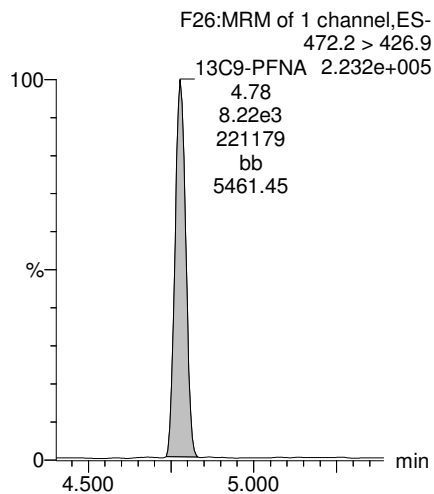
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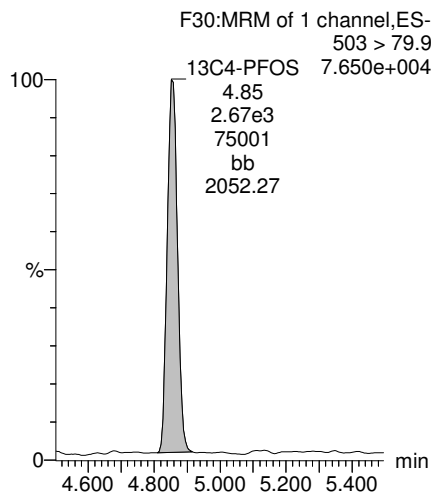
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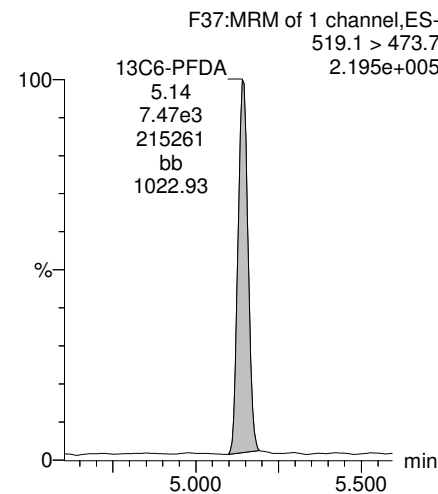
**13C9-PFNA**



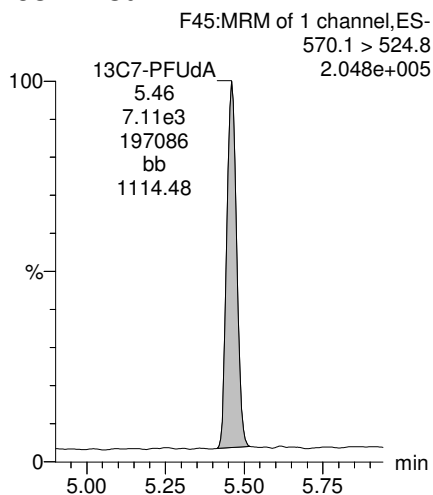
**13C4-PFOS**



**13C6-PFDA**



**13C7-PFudA**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-67.qld

Last Altered: Wednesday, December 27, 2017 14:48:24 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:48:45 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.86e2	1.12e3	0.116		2.70	2.73	3.20	12.961	
2	4	PFHxA	313.2 > 268.9	4.21e3	3.01e3	0.116		3.20	3.22	7.00	40.707	
3	5	PFHpA	363.0 > 318.9	7.66e2	5.56e3	0.116		3.80	3.84	1.72	10.296	
4	6	L-PFHxS	398.9 > 79.6	5.48e2	9.28e2	0.116		3.95	3.98	7.39	34.970	
5	9	L-PFOA	413 > 368.7	2.62e3	7.79e3	0.116		4.32	4.35	4.20	33.753	
6	12	PFNA	463.0 > 418.8		6.61e3	0.116		4.75				
7	14	L-PFOS	499 > 79.9		2.36e3	0.116		4.83				
8	16	PFDA	513 > 468.8		7.86e3	0.116		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.63e3	0.116		5.26				
10	19	N-EtFOSAA	584.2 > 419		2.65e3	0.116		5.42				
11	20	PFUdA	563.0 > 518.9		7.02e3	0.116		5.43				
12	22	PFDoA	612.9 > 569.0		4.33e3	0.116		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-67.qld

Last Altered: Wednesday, December 27, 2017 14:48:24 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:49:11 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	4.33e3	0.116		5.95				
2	25	PFTeDA	712.9 > 668.8	5.10e3	0.116		6.16				
3	33	13C3-PFBS	302. > 98.8	1.12e3	0.116	0.106	2.70	2.73	1.29	104.453	97.3
4	34	13C2-PFHxA	315 > 269.8	3.01e3	0.116	0.743	3.20	3.22	3.47	40.079	93.3
5	35	13C4-PFHpA	367.2 > 321.8	5.56e3	0.116	0.557	3.80	3.84	6.41	98.891	92.1
6	36	18O2-PFHxS	403.0 > 102.6	9.28e2	0.116	0.433	3.95	3.98	5.25	104.269	97.1
7	37	13C2-6:2 FTS	429.1 > 408.9	1.75e3	0.116	0.275	4.26	4.29	2.95	92.219	85.9
8	38	13C2-PFOA	414.9 > 369.7	7.79e3	0.116	1.141	4.32	4.35	13.1	98.728	92.0
9	39	13C5-PFNA	468.2 > 422.9	6.61e3	0.116	0.963	4.75	4.77	10.2	91.363	85.1
10	40	13C8-PFOA	506.1 > 77.7	2.16e3	0.116	0.373	4.81	4.83	3.73	85.696	79.8
11	41	13C8-PFOS	507.0 > 79.9	2.36e3	0.116	1.075	4.83	4.85	13.6	108.803	101.4
12	42	13C2-PFDA	515.1 > 469.9	7.86e3	0.116	1.213	5.11	5.14	13.3	94.226	87.8
13	43	13C2-8:2 FTS	529.1 > 508.7	1.11e3	0.116	0.109	5.09	5.11	1.28	100.858	94.0
14	44	d3-N-MeFOSAA	573.3 > 419	2.63e3	0.116	0.405	5.26	5.28	4.55	96.292	89.7
15	45	d5-N-EtFOSAA	589.3 > 419	2.65e3	0.116	0.490	5.42	5.43	4.58	80.290	74.8
16	46	13C2-PFUdA	565 > 519.8	7.02e3	0.116	1.154	5.43	5.46	12.1	90.279	84.1
17	47	13C2-PFDoA	615.0 > 569.7	4.33e3	0.116	0.623	5.70	5.73	7.48	103.178	96.1
18	49	13C2-PFTeDA	714.8 > 669.6	5.10e3	0.116	0.706	6.16	6.18	8.81	107.203	99.9
19	55	13C5-PFHxA	318 > 272.9	1.08e4	0.116	1.000	3.20	3.22	12.5	107.351	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.21e3	0.116	1.000	3.95	3.98	12.5	107.351	100.0
21	57	13C8-PFOA	421.3 > 376	7.42e3	0.116	1.000	4.32	4.35	12.5	107.351	100.0
22	58	13C9-PFNA	472.2 > 426.9	8.08e3	0.116	1.000	4.75	4.77	12.5	107.351	100.0
23	59	13C4-PFOS	503 > 79.9	2.17e3	0.116	1.000	4.83	4.85	12.5	107.351	100.0
24	60	13C6-PFDA	519.1 > 473.7	7.38e3	0.116	1.000	5.11	5.14	12.5	107.351	100.0
25	61	13C7-PFUdA	570.1 > 524.8	7.23e3	0.116	1.000	5.43	5.46	12.5	107.351	100.0
26	62	Total PFHxS	398.9 > 79.6	5.48e2	0.116		4.00		7.39	34.970	
27	63	Total PFOA	413 > 368.7	3.14e3	0.116		4.30		5.04	39.192	
28	64	Total PFOS	499 > 79.9	0.00e0	0.116		4.80		0.000		
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	0.116		5.20		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	0.116		5.40		0.000		



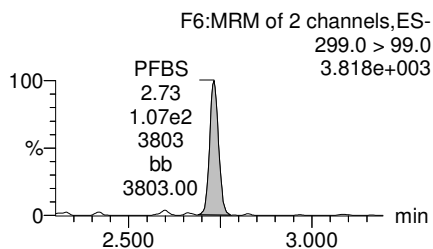
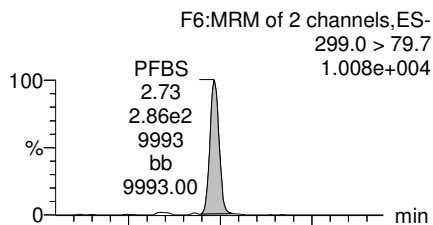
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Printed: Wednesday, December 27, 2017 14:49:11 Pacific Standard Time

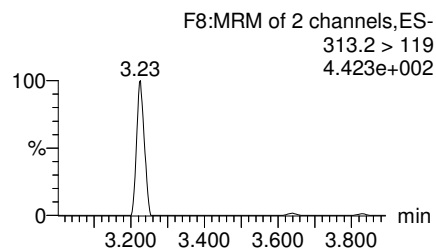
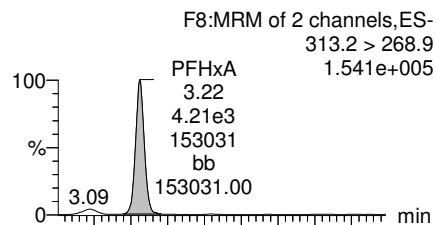
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Name: 171223M1\_67, Date: 24-Dec-2017, Time: 01:14:51, ID: 1701911-05 WI-A06-6-S-07-1217 0.11644, Description: WI-A06-6-S-07-1217

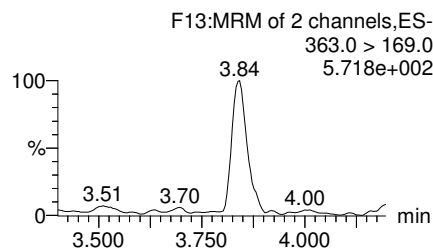
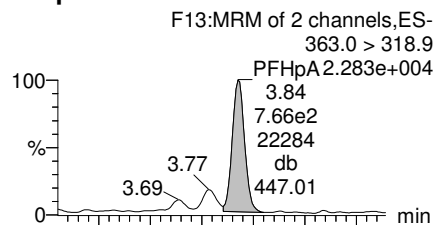
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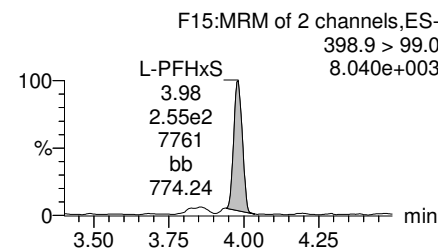
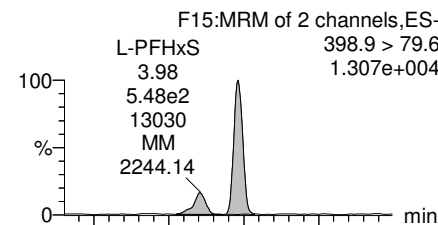
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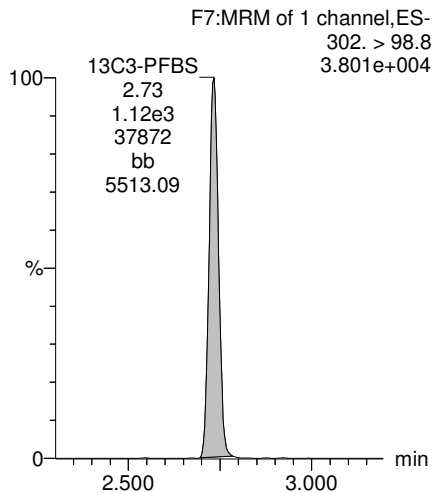
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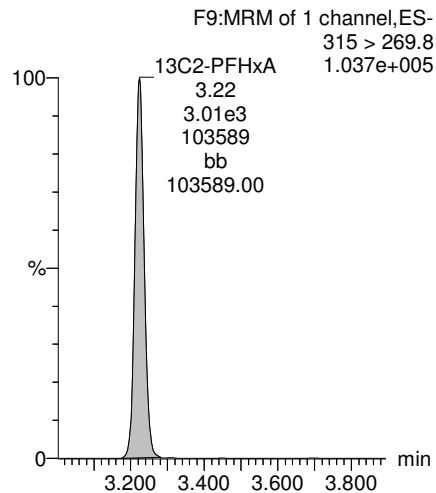
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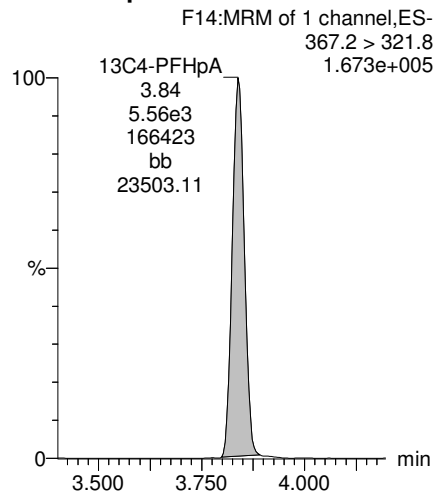
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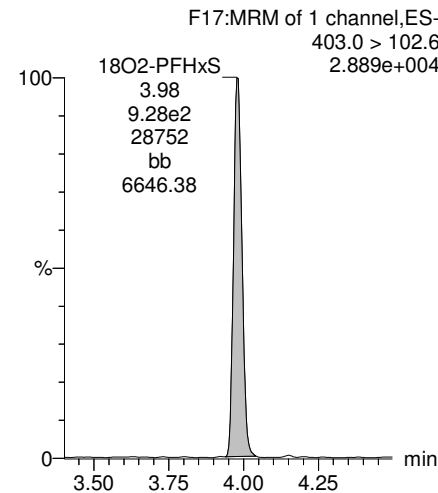
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**13C4-PFHpA**



**18O2-PFHxS**

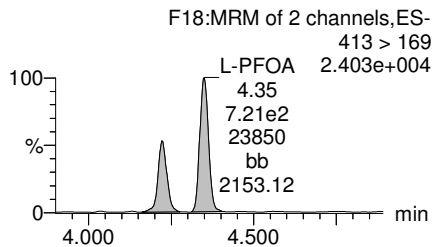
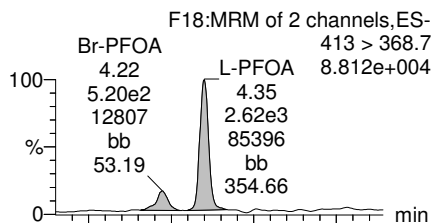


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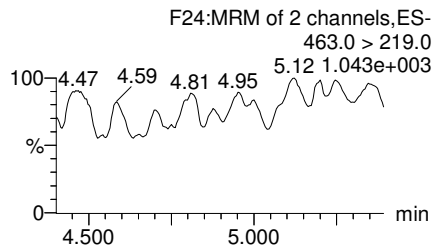
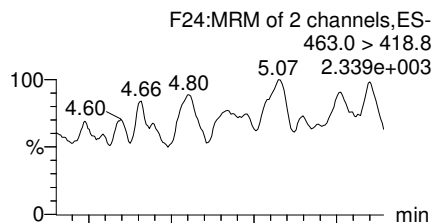
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Name: 171223M1\_67, Date: 24-Dec-2017, Time: 01:14:51, ID: 1701911-05 WI-A06-6-S-07-1217 0.11644, Description: WI-A06-6-S-07-1217

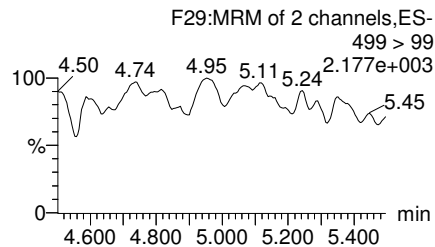
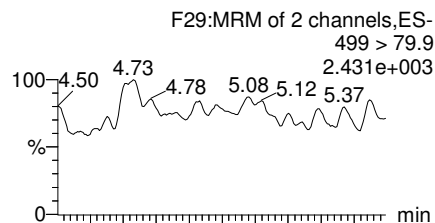
**Total PFOA**



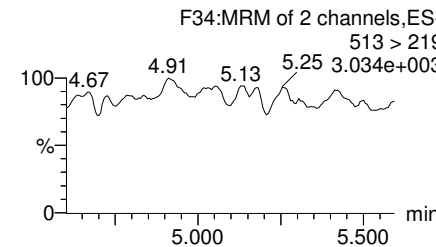
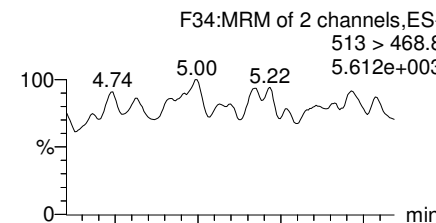
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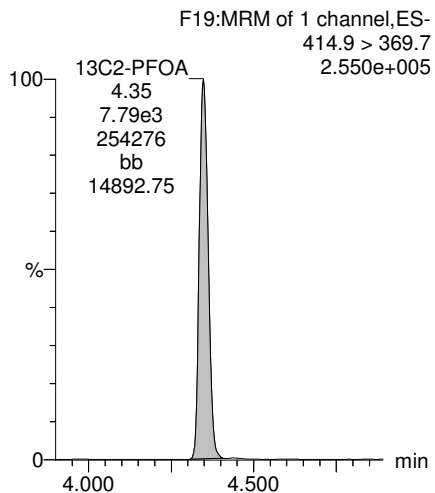
**Total PFOS**



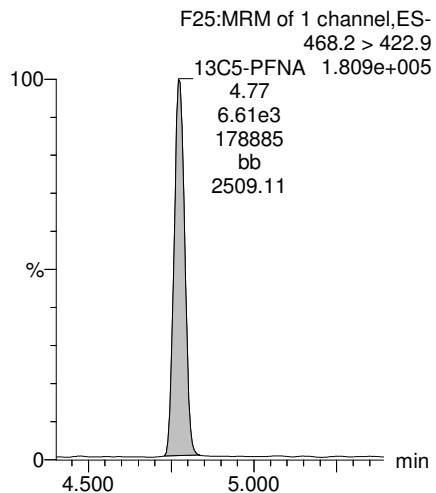
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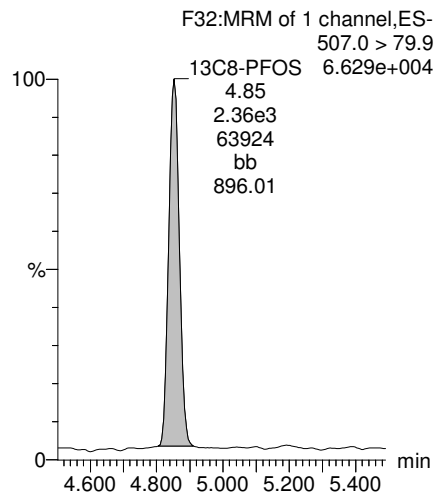
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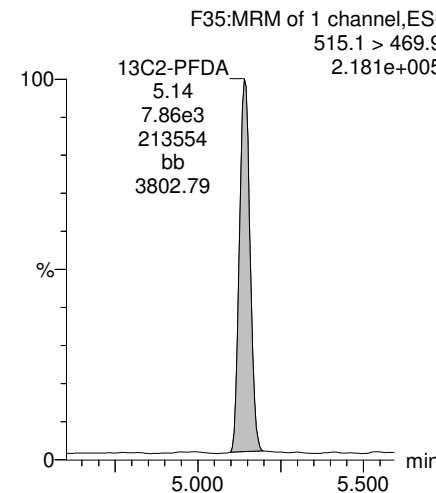
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

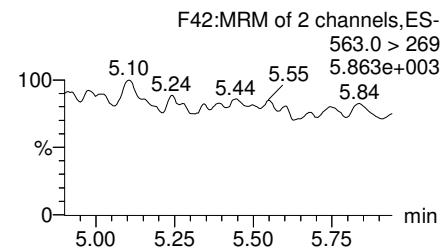
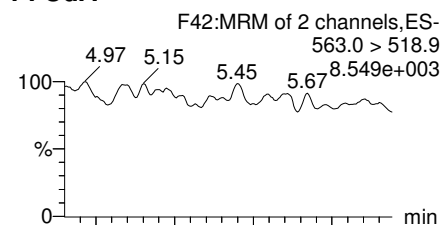


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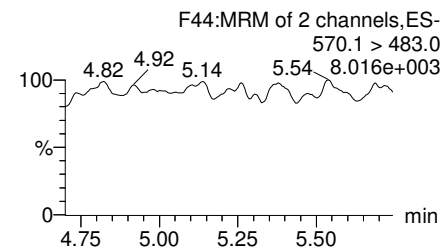
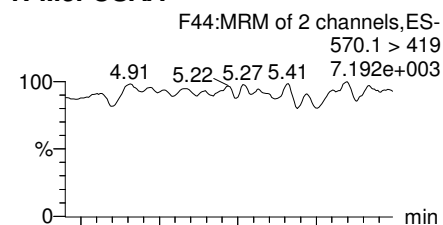
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Printed: Wednesday, December 27, 2017 14:49:11 Pacific Standard Time

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

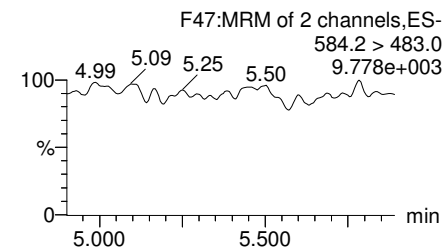
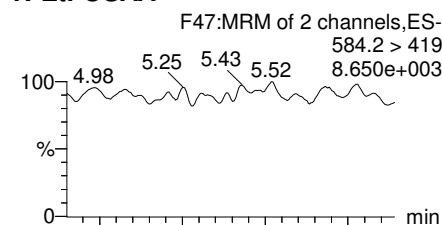
**PFUdA**



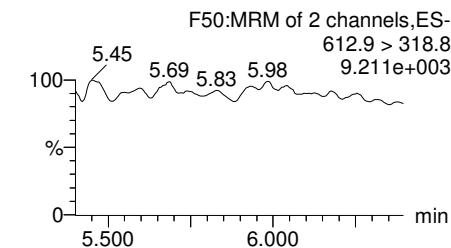
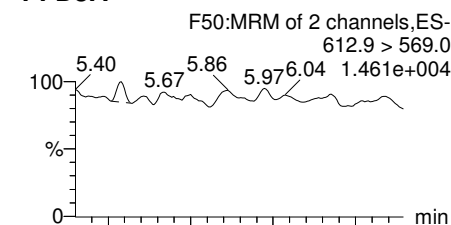
**N-MeFOSAA**



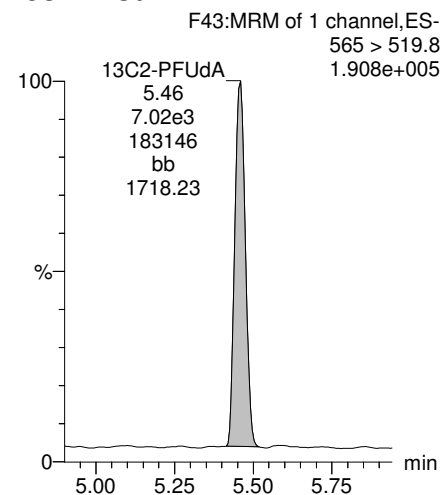
**N-EtFOSAA**



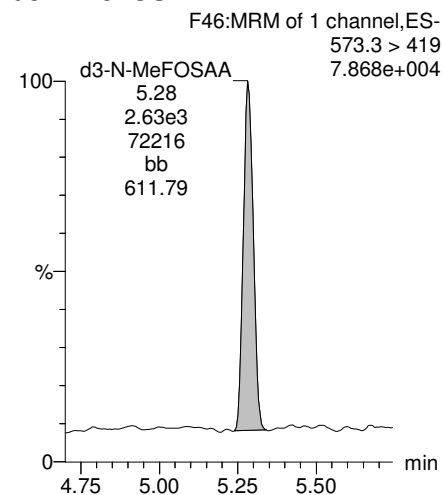
**PFDoA**



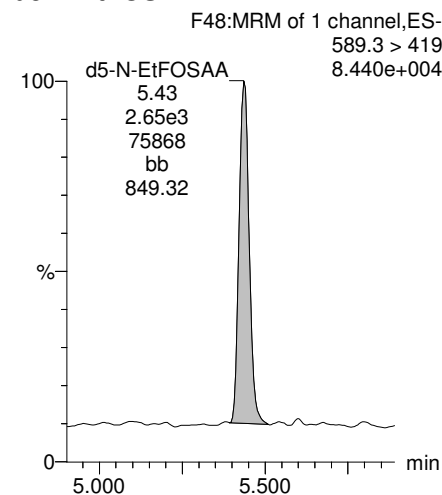
**13C2-PFUdA**



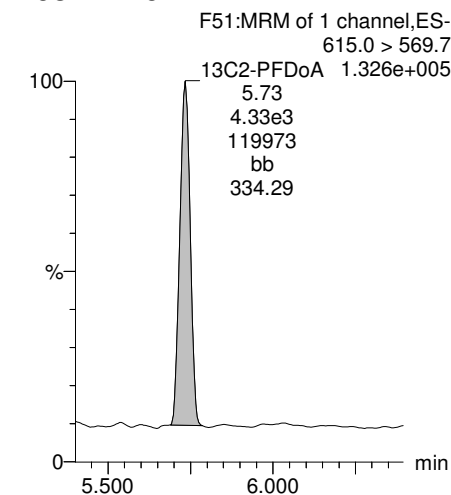
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDoA**

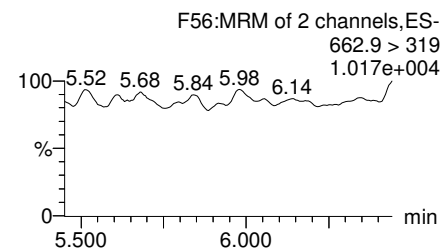
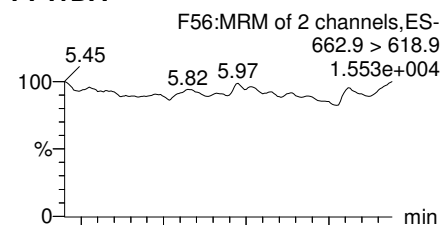


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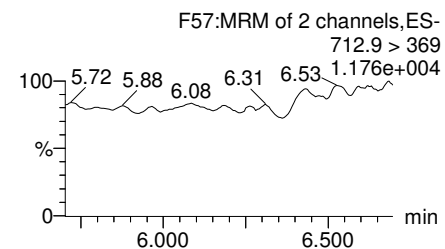
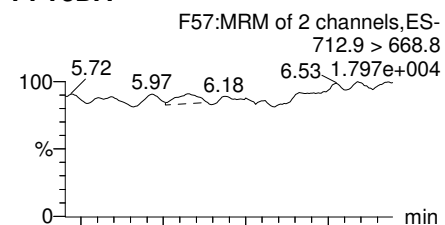
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Printed: Wednesday, December 27, 2017 14:49:11 Pacific Standard Time

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

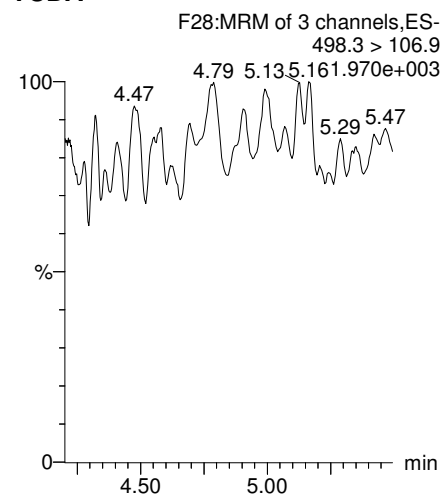
**PFTrDA**



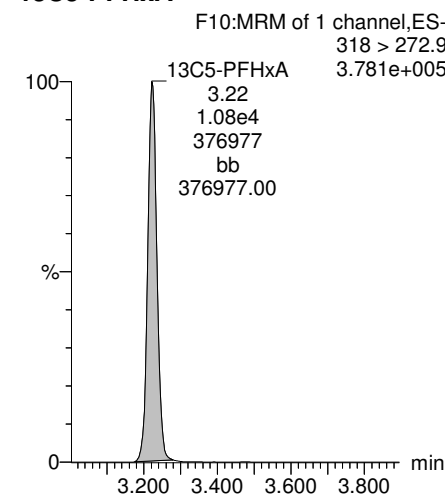
**PFTeDA**



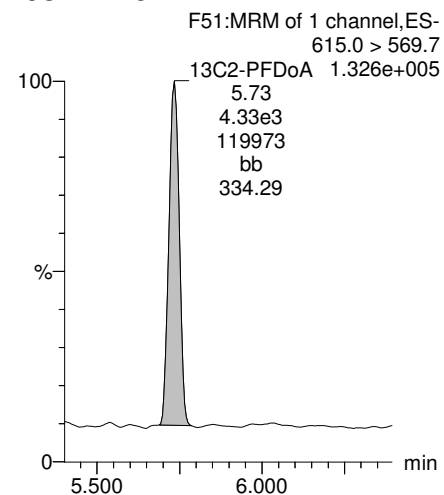
**TCDA**



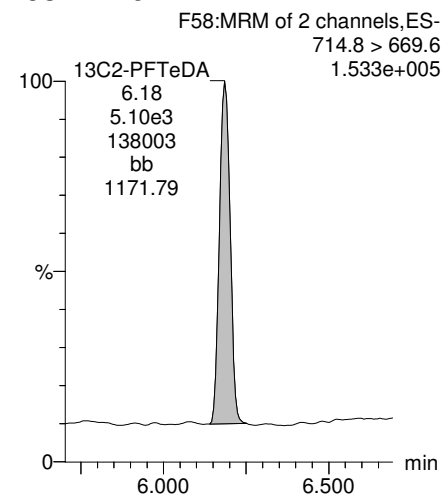
**13C5-PFHxA**



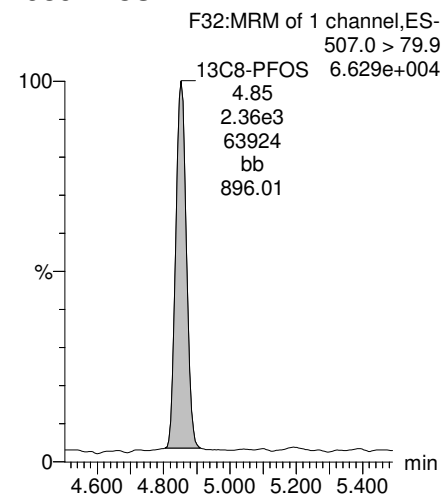
**13C2-PFDoA**



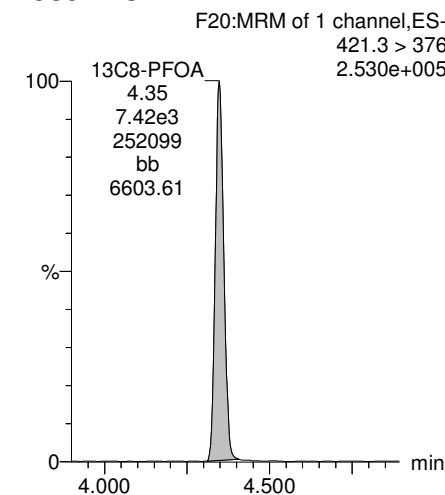
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**

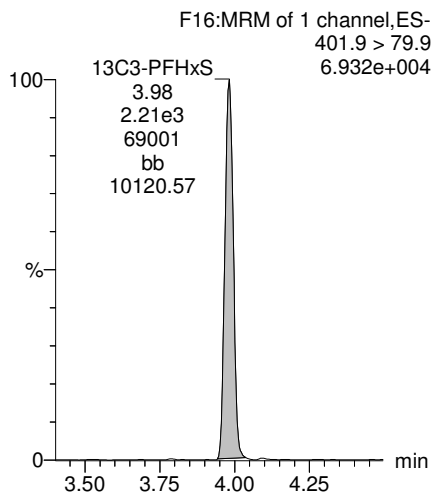


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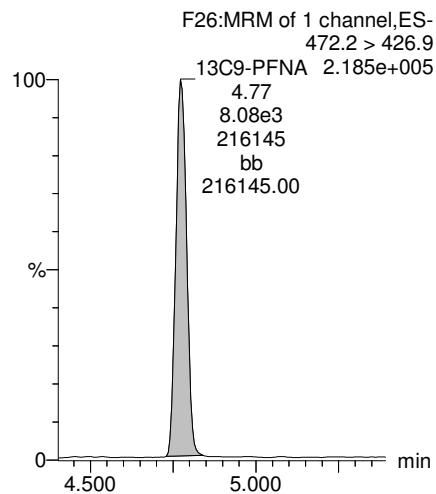
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Name: 171223M1\_67, Date: 24-Dec-2017, Time: 01:14:51, ID: 1701911-05 WI-A06-6-S-07-1217 0.11644, Description: WI-A06-6-S-07-1217

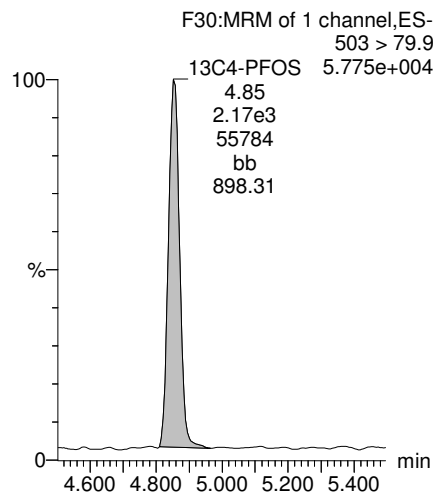
**13C3-PFHxS**



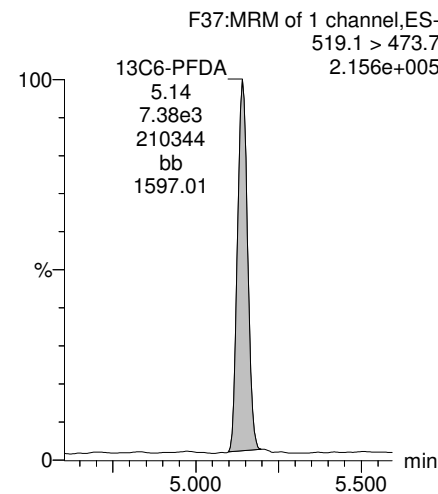
**13C9-PFNA**



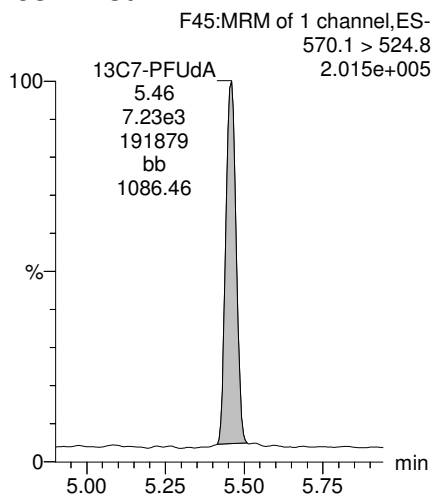
**13C4-PFOS**



**13C6-PFDA**



**13C7-PFudA**



Dataset: U:\Q4.PRO\results\171228M2\171228M2-7.qld

Last Altered: Thursday, December 28, 2017 14:12:16 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:12:53 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	1.84e3	1.06e3	0.117		2.70	2.72	21.6	78.4604	
2	4 PFHxA	313.2 > 268.9	1.32e4	2.63e3	0.117		3.20	3.21	25.2	106.5343	
3	5 PFHpA	363.0 > 318.9	8.56e3	6.13e3	0.117		3.80	3.81	17.4	91.3442	
4	6 L-PFHxS	398.9 > 79.6	2.05e3	9.82e2	0.117		3.95	3.95	26.1	105.2169	
5	9 L-PFOA	413 > 368.7	1.02e4	7.44e3	0.117		4.32	4.31	17.2	116.6509	
6	12 PFNA	463.0 > 418.8	6.98e3	6.35e3	0.117		4.75	4.73	13.7	76.7905	
7	14 L-PFOS	499 > 79.9	2.60e3	2.30e3	0.117		4.83	4.81	14.2	98.0878	
8	16 PFDA	513 > 468.8	6.68e3	5.90e3	0.117		5.11	5.10	14.2	80.8178	
9	18 N-MeFOSAA	570.1 > 419	5.09e3	3.21e3	0.117		5.26	5.24	19.8	101.0456	
10	19 N-EtFOSAA	584.2 > 419	3.57e3	3.90e3	0.117		5.42	5.39	11.4	81.4804	
11	20 PFUdA	563.0 > 518.9	5.90e3	7.47e3	0.117		5.43	5.41	9.88	82.2106	
12	22 PFDaA	612.9 > 569.0	7.63e3	4.91e3	0.117		5.70	5.68	19.4	94.6081	

Dataset: U:\Q4.PRO\results\171228M2\171228M2-7.qld

Last Altered: Thursday, December 28, 2017 14:12:16 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:13:05 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	6.32e3	4.91e3	0.117	5.95	5.91	16.1	84.2957		
2	25	PFTeDA	712.9 > 668.8	3.57e3	1.66e3	0.117	6.16	6.13	26.8	85.0399		
3	33	13C3-PFBS	302. > 98.8	1.06e3	9.54e3	0.117	0.101	2.70	2.72	1.39	117.8963	109.9
4	34	13C2-PFHxA	315 > 269.8	2.63e3	9.54e3	0.117	0.601	3.20	3.21	3.44	49.1426	114.5
5	35	13C4-PFHpA	367.2 > 321.8	6.13e3	9.54e3	0.117	0.676	3.80	3.81	8.03	101.9319	95.0
6	36	18O2-PFHxS	403.0 > 102.6	9.82e2	2.57e3	0.117	0.347	3.95	3.95	4.78	118.5099	110.5
7	37	13C2-6:2 FTS	429.1 > 408.9	1.91e3	8.52e3	0.117	0.210	4.26	4.26	2.81	114.8598	107.1
8	38	13C2-PFOA	414.9 > 369.7	7.44e3	8.52e3	0.117	0.990	4.32	4.32	10.9	94.5905	88.2
9	39	13C5-PFNA	468.2 > 422.9	6.35e3	8.19e3	0.117	0.845	4.75	4.73	9.68	98.3660	91.7
10	40	13C8-PFOSA	506.1 > 77.7	1.32e3	7.85e3	0.117	0.199	4.81	4.81	2.10	90.3147	84.2
11	41	13C8-PFOS	507.0 > 79.9	2.30e3	2.09e3	0.117	0.865	4.83	4.81	13.7	136.2494	127.0
12	42	13C2-PFDA	515.1 > 469.9	5.90e3	8.50e3	0.117	0.886	5.11	5.09	8.67	83.9845	78.3
13	43	13C2-8:2 FTS	529.1 > 508.7	1.14e3	9.54e3	0.117	0.136	5.09	5.07	1.49	94.2198	87.8
14	44	d3-N-MeFOSAA	573.3 > 419	3.21e3	7.85e3	0.117	0.409	5.26	5.24	5.10	107.1865	99.9
15	45	d5-N-EtFOSAA	589.3 > 419	3.90e3	7.85e3	0.117	0.474	5.42	5.38	6.21	112.5242	104.9
16	46	13C2-PFUdA	565 > 519.8	7.47e3	7.85e3	0.117	0.928	5.43	5.41	11.9	109.8719	102.4
17	47	13C2-PFDoA	615.0 > 569.7	4.91e3	7.85e3	0.117	0.636	5.70	5.68	7.82	105.4444	98.3
18	49	13C2-PFTeDA	714.8 > 669.6	1.66e3	7.85e3	0.117	0.163	6.16	6.13	2.65	139.6774	130.2
19	55	13C5-PFHxA	318 > 272.9	9.54e3	9.54e3	0.117	1.000	3.20	3.21	12.5	107.2777	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.57e3	2.57e3	0.117	1.000	3.95	3.95	12.5	107.2777	100.0
21	57	13C8-PFOA	421.3 > 376	8.52e3	8.52e3	0.117	1.000	4.32	4.31	12.5	107.2777	100.0
22	58	13C9-PFNA	472.2 > 426.9	8.19e3	8.19e3	0.117	1.000	4.75	4.73	12.5	107.2777	100.0
23	59	13C4-PFOS	503 > 79.9	2.09e3	2.09e3	0.117	1.000	4.83	4.81	12.5	107.2777	100.0
24	60	13C6-PFDA	519.1 > 473.7	8.50e3	8.50e3	0.117	1.000	5.11	5.10	12.5	107.2777	100.0
25	61	13C7-PFUdA	570.1 > 524.8	7.85e3	7.85e3	0.117	1.000	5.43	5.41	12.5	107.2777	100.0
26	62	Total PFHxS	398.9 > 79.6	2.05e3	9.82e2	0.117		4.00		26.1	105.2169	
27	63	Total PFOA	413 > 368.7	1.09e4	7.44e3	0.117		4.30		18.3	122.9592	
28	64	Total PFOS	499 > 79.9	2.60e3	2.30e3	0.117		4.80		14.2	98.0878	
29	65	Total N-MeFOSAA	570.1 > 419	5.09e3	3.21e3	0.117		5.20		19.8	101.0456	
30	66	Total N-EtFOSAA	584.2 > 419	3.57e3	3.90e3	0.117		5.40		11.4	81.4804	

Dataset: U:\Q4.PRO\results\171228M2\171228M2-7.qld

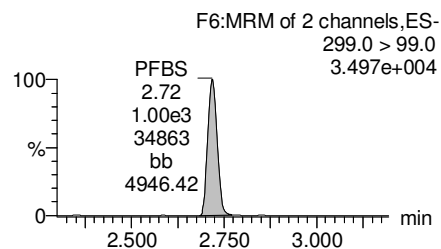
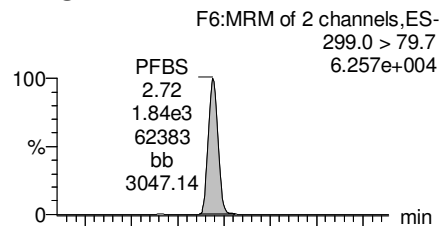
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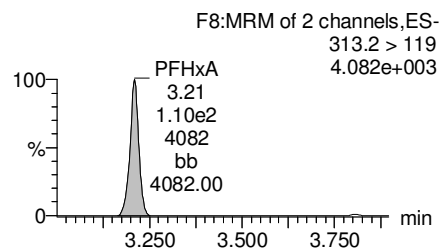
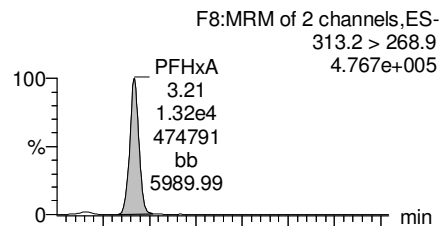
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Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

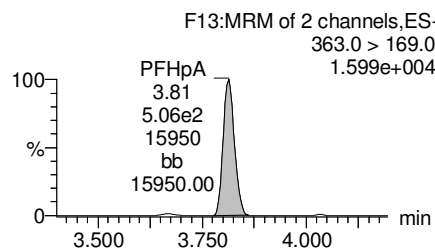
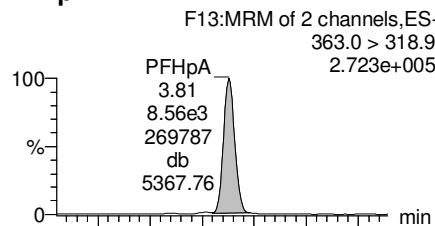
PFBS



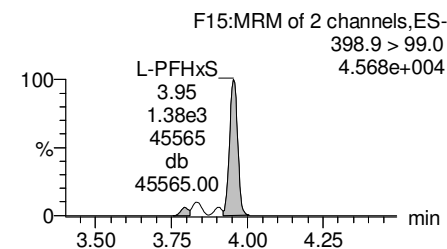
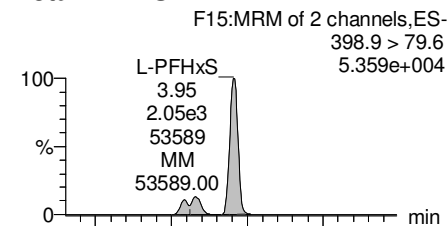
PFHxA



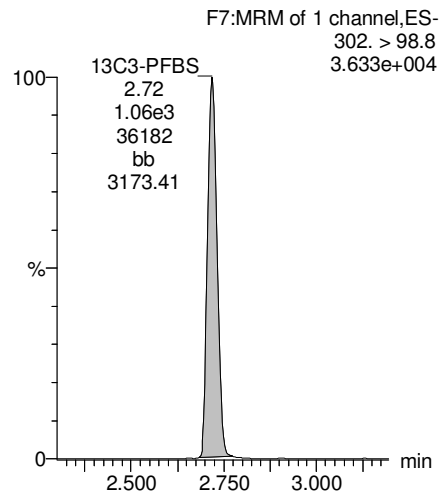
PFHpA



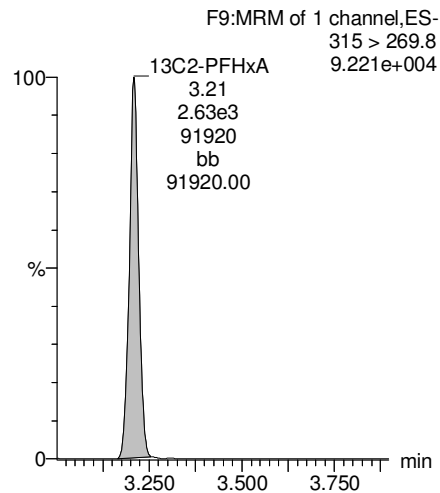
Total PFHxS



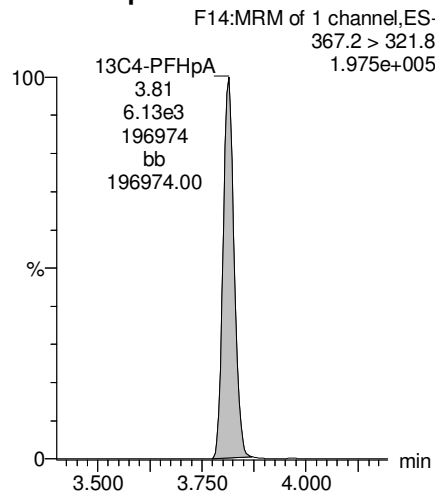
13C3-PFBS



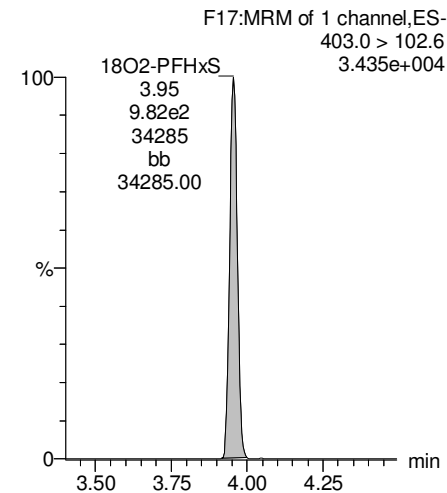
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS





Dataset: U:\Q4.PRO\results\171228M2\171228M2-7.qld

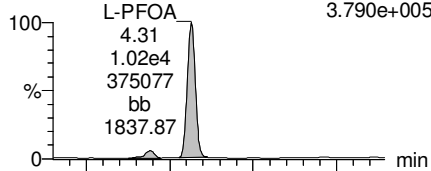
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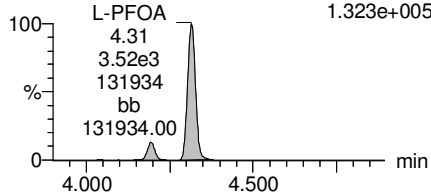
Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

**Total PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
3.790e+005

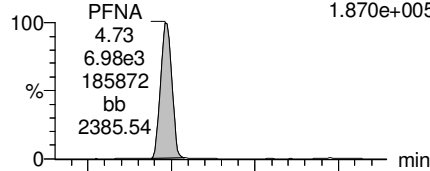


F18:MRM of 2 channels,ES-  
413 > 169  
1.323e+005

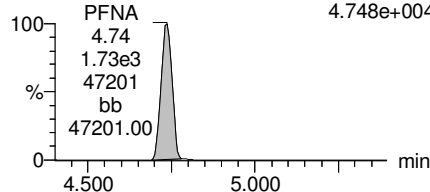


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
1.870e+005

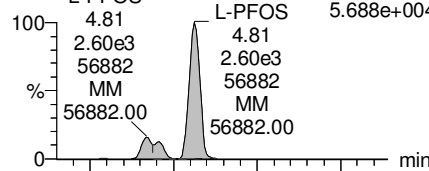


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
4.748e+004

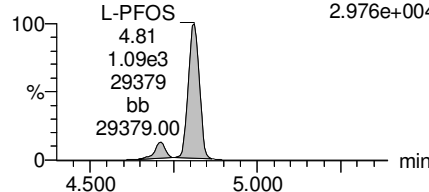


**Total PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
5.688e+004

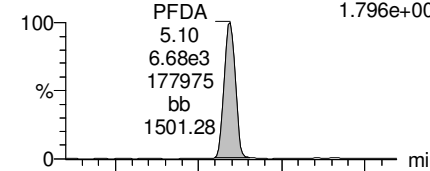


F29:MRM of 2 channels,ES-  
499 > 99  
2.976e+004

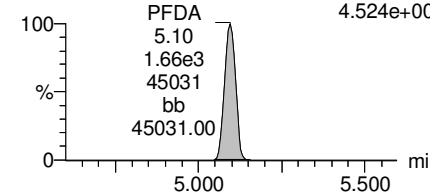


**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.796e+005

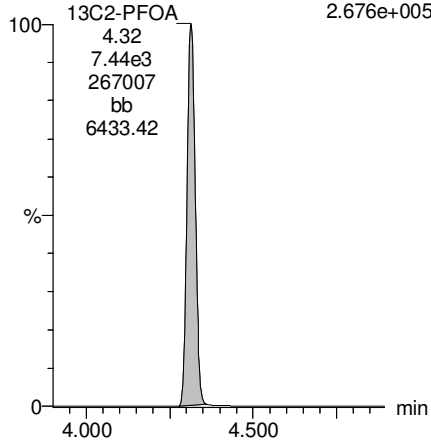


F34:MRM of 2 channels,ES-  
513 > 219  
4.524e+004



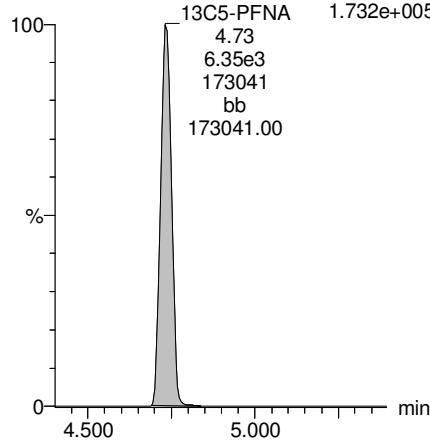
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.676e+005



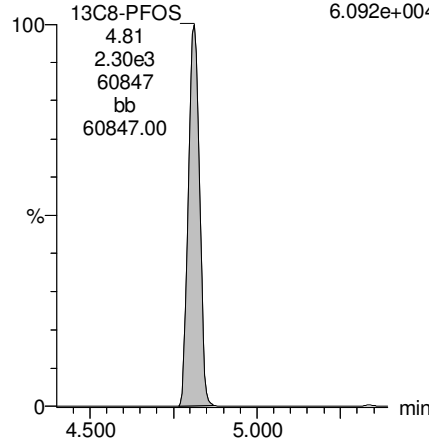
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
1.732e+005



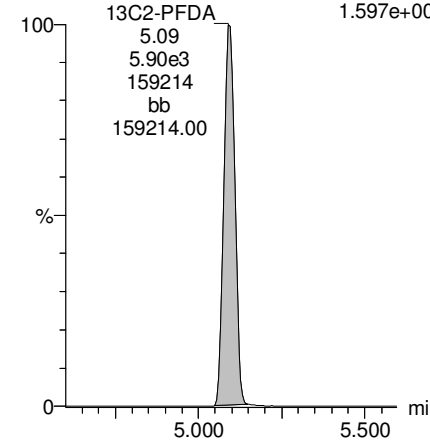
**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.092e+004



**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
1.597e+005



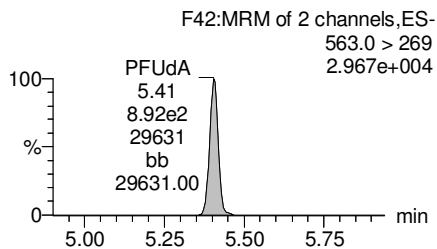
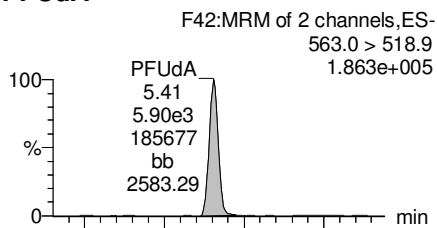
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Last Altered: Thursday, December 28, 2017 14:12:16 Pacific Standard Time

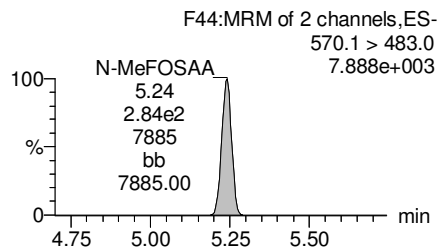
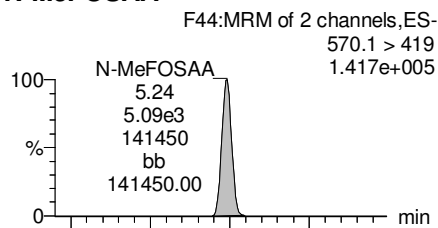
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Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

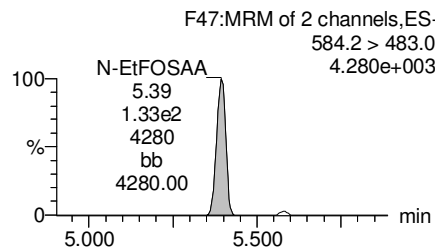
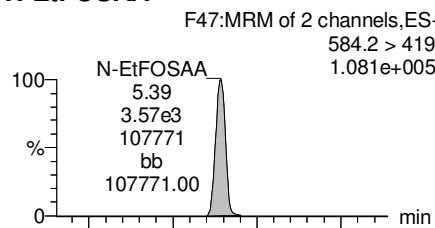
**PFUdA**



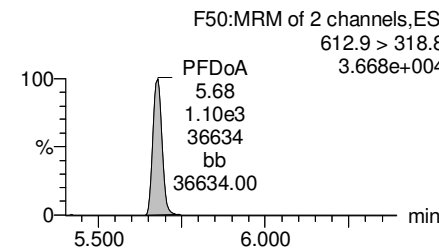
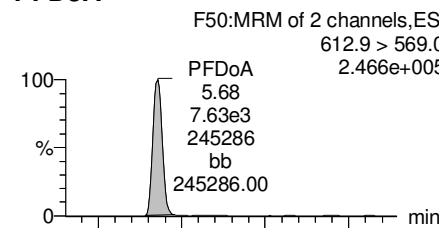
**N-MeFOSAA**



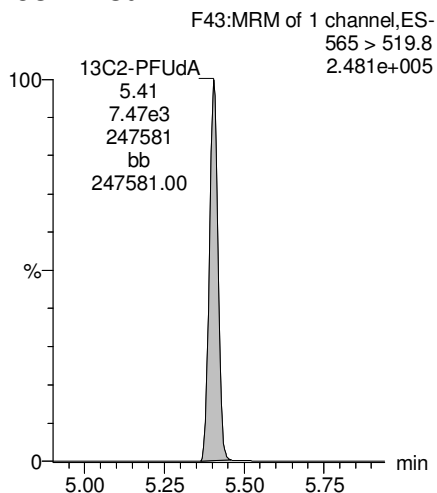
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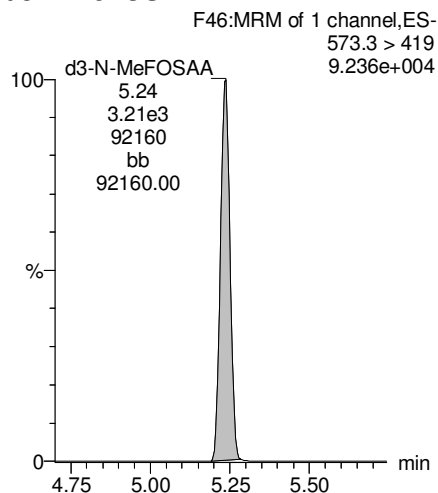
**PFDaA**



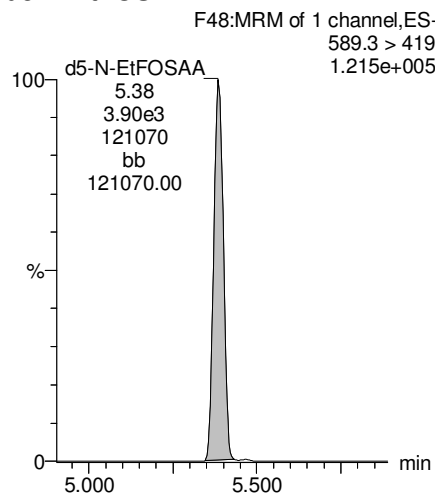
**13C2-PFUdA**



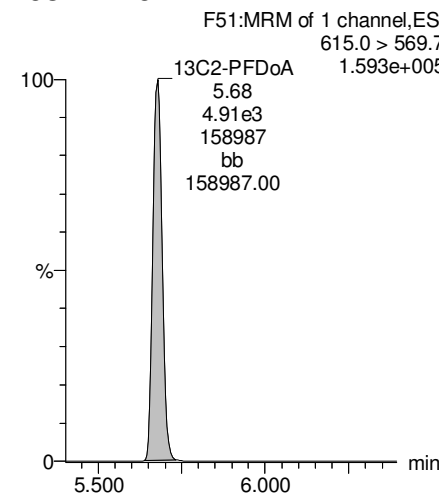
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDaA**



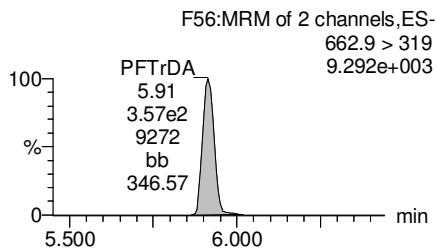
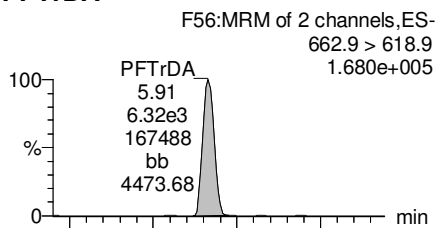
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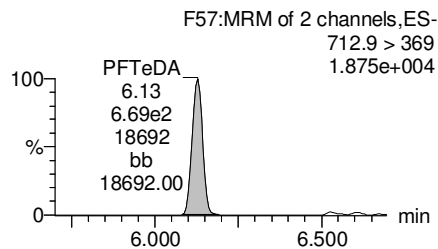
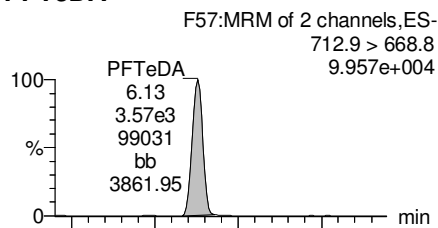
Printed: Thursday, December 28, 2017 14:13:05 Pacific Standard Time

Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

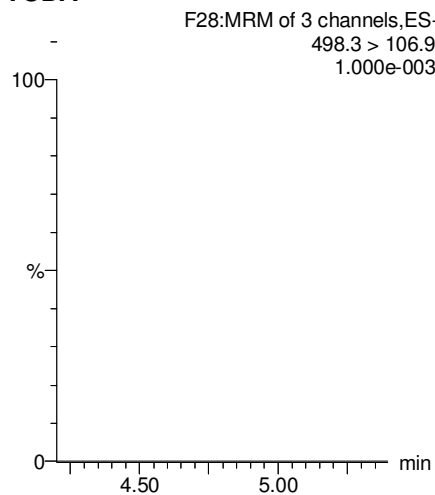
**PFTrDA**



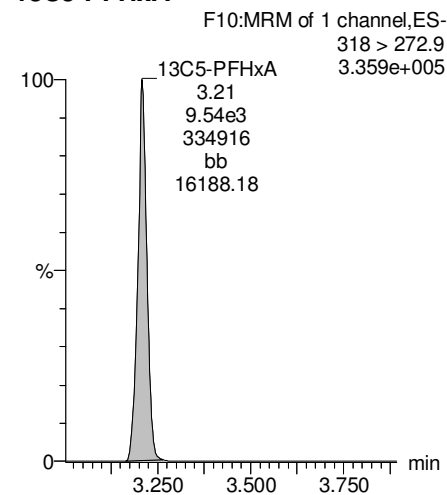
**PFTeDA**



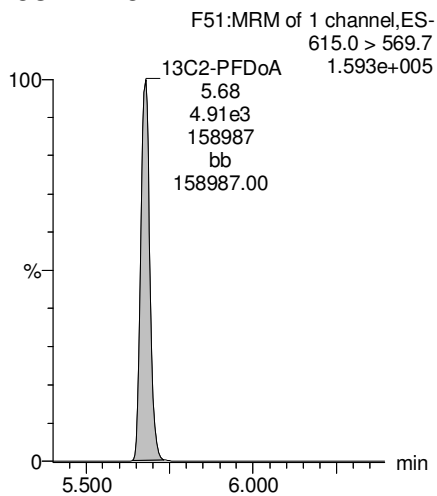
**TCDA**



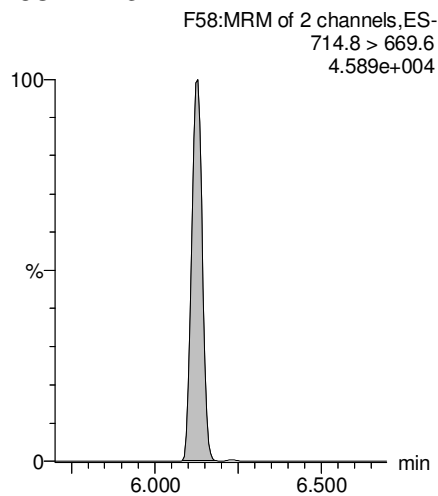
**13C5-PFHxA**



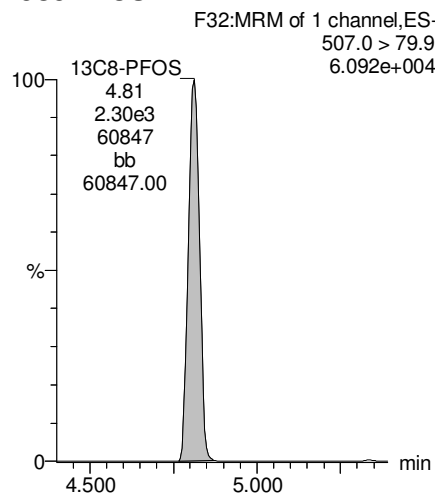
**13C2-PFDoA**



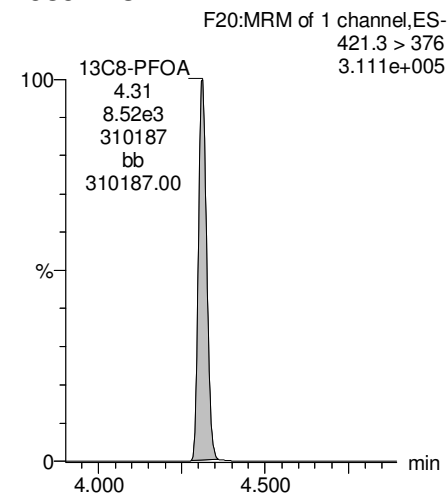
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**



Dataset: U:\Q4.PRO\results\171228M2\171228M2-7.qld

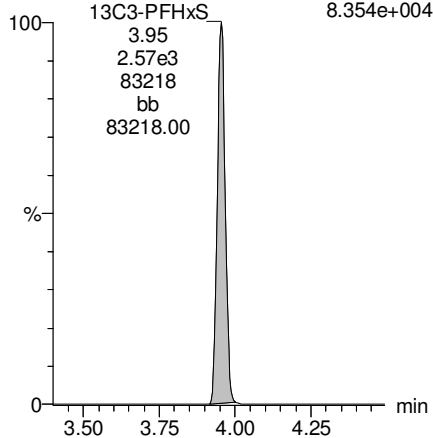
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Printed: Thursday, December 28, 2017 14:13:05 Pacific Standard Time

Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, ID: B7L0145-MS1 Matrix Spike 0.11652, Description: Matrix Spike

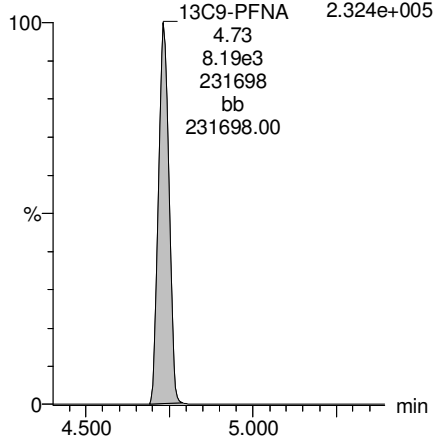
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
8.354e+004



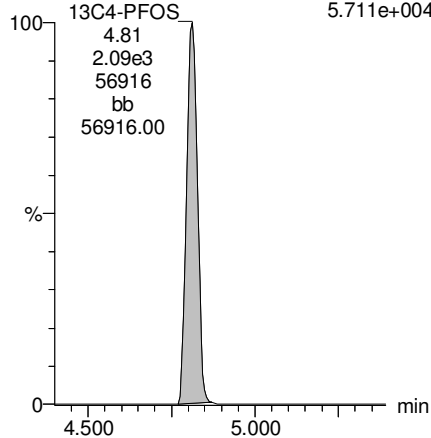
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.324e+005



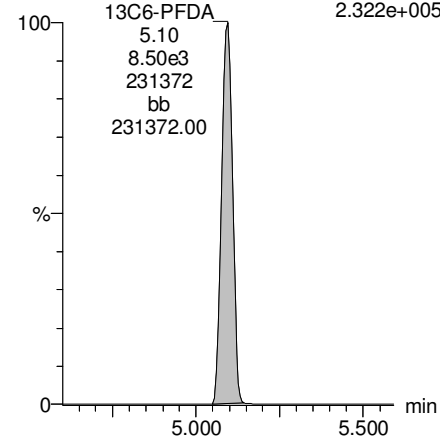
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.711e+004



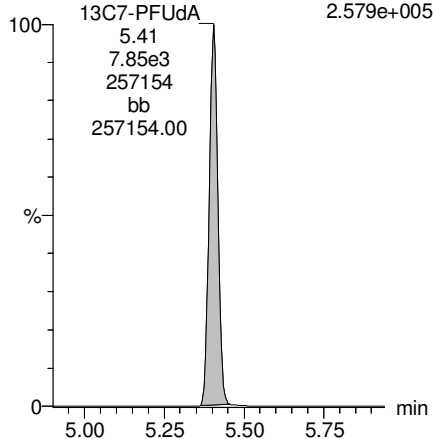
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.322e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.579e+005



Dataset: U:\Q4.PRO\results\171228M2\171228M2-8.qld

Last Altered: Thursday, December 28, 2017 14:15:52 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:24:55 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_8, Date: 28-Dec-2017, Time: 13:53:36, ID: B7L0145-MSD1 Matrix Spike Dup 0.11629, Description: Matrix Spike Dup

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.14e3	1.09e3	0.116		2.70	2.72	24.7	89.2970	
2	4	PFHxA	313.2 > 268.9	1.29e4	2.54e3	0.116		3.20	3.21	25.4	108.0092	
3	5	PFHpA	363.0 > 318.9	8.16e3	6.41e3	0.116		3.80	3.81	15.9	83.6026	
4	6	L-PFHxS	398.9 > 79.6	2.00e3	9.09e2	0.116		3.95	3.95	27.5	110.7269	
5	9	L-PFOA	413 > 368.7	1.13e4	7.00e3	0.116		4.32	4.31	20.1	137.1307	
6	12	PFNA	463.0 > 418.8	7.42e3	5.80e3	0.116		4.75	4.74	16.0	89.4025	
7	14	L-PFOS	499 > 79.9	1.92e3	2.01e3	0.116		4.83	4.82	11.9	82.5171	
8	16	PFDA	513 > 468.8	8.96e3	6.35e3	0.116		5.11	5.10	17.6	101.5820	
9	18	N-MeFOSAA	570.1 > 419	4.97e3	3.13e3	0.116		5.26	5.24	19.9	101.4360	
10	19	N-EtFOSAA	584.2 > 419	3.55e3	3.71e3	0.116		5.42	5.39	12.0	85.5342	
11	20	PFUdA	563.0 > 518.9	8.20e3	7.91e3	0.116		5.43	5.41	13.0	107.8678	
12	22	PFDoA	612.9 > 569.0	7.49e3	4.91e3	0.116		5.70	5.68	19.0	92.9586	

Dataset: U:\Q4.PRO\results\171228M2\171228M2-8.qld

Last Altered: Thursday, December 28, 2017 14:15:52 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:25:08 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_8, Date: 28-Dec-2017, Time: 13:53:36, ID: B7L0145-MSD1 Matrix Spike Dup 0.11629, Description: Matrix Spike Dup

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	6.69e3	4.91e3	0.116	5.95	5.92	17.0	89.1226		
2	25	PFTeDA	712.9 > 668.8	4.01e3	1.26e3	0.116	6.16	6.13	39.6	129.7195		
3	33	13C3-PFBS	302. > 98.8	1.09e3	8.56e3	0.116	0.101	2.70	2.72	1.59	134.6055	125.2
4	34	13C2-PFHxA	315 > 269.8	2.54e3	8.56e3	0.116	0.601	3.20	3.21	3.72	53.1982	123.7
5	35	13C4-PFHpA	367.2 > 321.8	6.41e3	8.56e3	0.116	0.676	3.80	3.81	9.36	118.9523	110.7
6	36	18O2-PFHxS	403.0 > 102.6	9.09e2	2.22e3	0.116	0.347	3.95	3.95	5.12	127.1736	118.3
7	37	13C2-6:2 FTS	429.1 > 408.9	2.19e3	8.51e3	0.116	0.210	4.26	4.26	3.21	131.7307	122.6
8	38	13C2-PFOA	414.9 > 369.7	7.00e3	8.51e3	0.116	0.990	4.32	4.31	10.3	89.3266	83.1
9	39	13C5-PFNA	468.2 > 422.9	5.80e3	7.46e3	0.116	0.845	4.75	4.74	9.73	99.0382	92.1
10	40	13C8-PFOSA	506.1 > 77.7	1.23e3	8.37e3	0.116	0.199	4.81	4.81	1.83	79.0844	73.6
11	41	13C8-PFOS	507.0 > 79.9	2.01e3	2.44e3	0.116	0.865	4.83	4.81	10.3	102.7211	95.6
12	42	13C2-PFDA	515.1 > 469.9	6.35e3	6.78e3	0.116	0.886	5.11	5.10	11.7	113.6111	105.7
13	43	13C2-8:2 FTS	529.1 > 508.7	9.93e2	8.56e3	0.116	0.136	5.09	5.07	1.45	91.8281	85.4
14	44	d3-N-MeFOSAA	573.3 > 419	3.13e3	8.37e3	0.116	0.409	5.26	5.24	4.67	98.2754	91.4
15	45	d5-N-EtFOSAA	589.3 > 419	3.71e3	8.37e3	0.116	0.474	5.42	5.39	5.54	100.5190	93.5
16	46	13C2-PFUdA	565 > 519.8	7.91e3	8.37e3	0.116	0.928	5.43	5.41	11.8	109.3870	101.8
17	47	13C2-PFDoA	615.0 > 569.7	4.91e3	8.37e3	0.116	0.636	5.70	5.68	7.34	99.1973	92.3
18	49	13C2-PFTeDA	714.8 > 669.6	1.26e3	8.37e3	0.116	0.163	6.16	6.13	1.89	99.8229	92.9
19	55	13C5-PFHxA	318 > 272.9	8.56e3	8.56e3	0.116	1.000	3.20	3.21	12.5	107.4899	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.22e3	2.22e3	0.116	1.000	3.95	3.95	12.5	107.4899	100.0
21	57	13C8-PFOA	421.3 > 376	8.51e3	8.51e3	0.116	1.000	4.32	4.32	12.5	107.4899	100.0
22	58	13C9-PFNA	472.2 > 426.9	7.46e3	7.46e3	0.116	1.000	4.75	4.73	12.5	107.4899	100.0
23	59	13C4-PFOS	503 > 79.9	2.44e3	2.44e3	0.116	1.000	4.83	4.81	12.5	107.4899	100.0
24	60	13C6-PFDA	519.1 > 473.7	6.78e3	6.78e3	0.116	1.000	5.11	5.10	12.5	107.4899	100.0
25	61	13C7-PFUdA	570.1 > 524.8	8.37e3	8.37e3	0.116	1.000	5.43	5.41	12.5	107.4899	100.0
26	62	Total PFHxS	398.9 > 79.6	2.00e3	9.09e2	0.116		4.00		27.5	110.7269	
27	63	Total PFOA	413 > 368.7	1.18e4	7.00e3	0.116		4.30		21.1	142.0174	
28	64	Total PFOS	499 > 79.9	1.92e3	2.01e3	0.116		4.80		11.9	82.5171	
29	65	Total N-MeFOSAA	570.1 > 419	4.97e3	3.13e3	0.116		5.20		19.9	101.4360	
30	66	Total N-EtFOSAA	584.2 > 419	3.55e3	3.71e3	0.116		5.40		12.0	85.5342	

Dataset: U:\Q4.PRO\results\171228M2\171228M2-8.qld

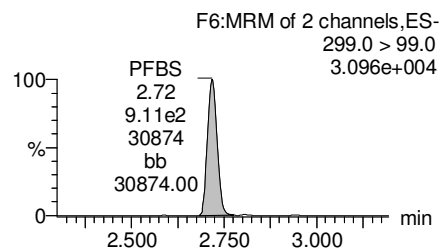
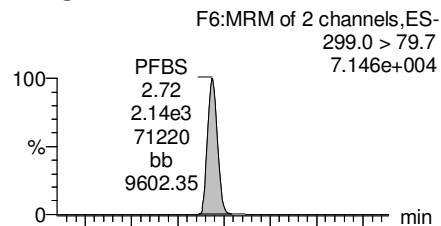
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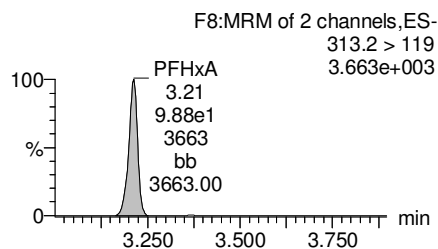
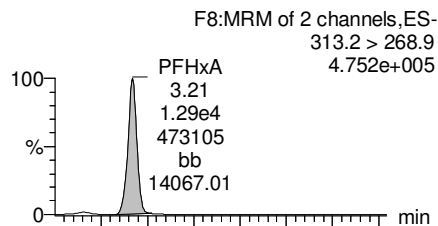
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Name: 171228M2\_8, Date: 28-Dec-2017, Time: 13:53:36, ID: B7L0145-MSD1 Matrix Spike Dup 0.11629, Description: Matrix Spike Dup

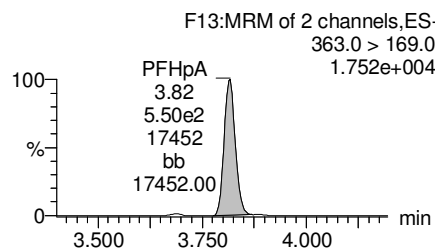
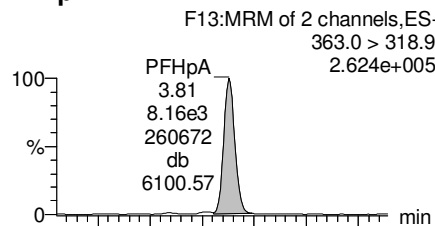
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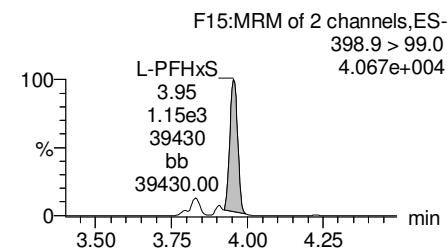
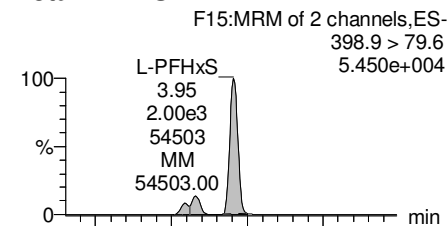
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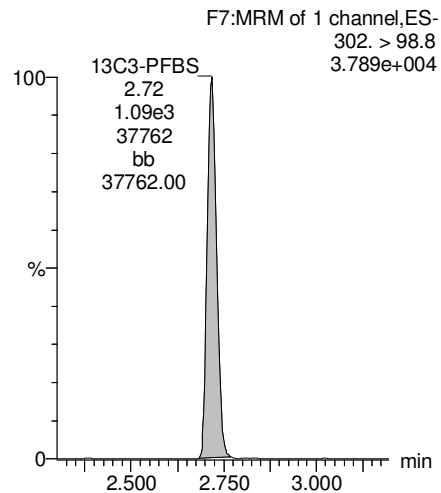
PFHpA



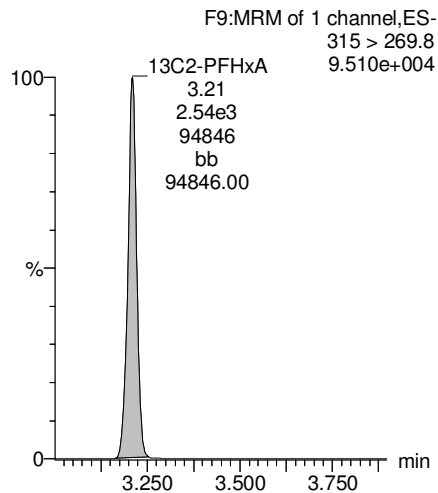
Total PFHxS



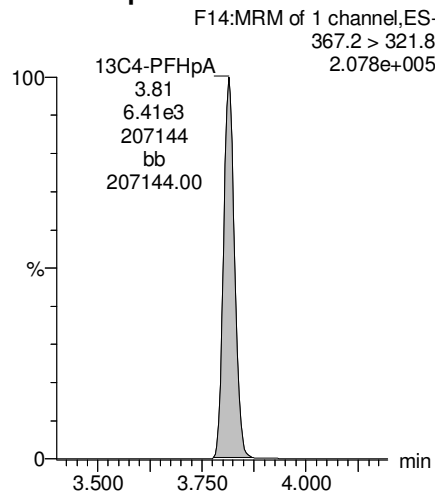
13C3-PFBS



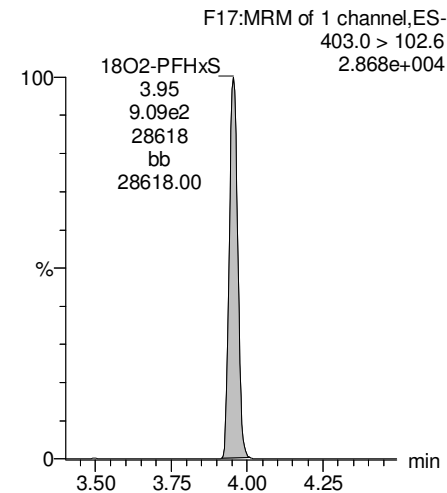
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



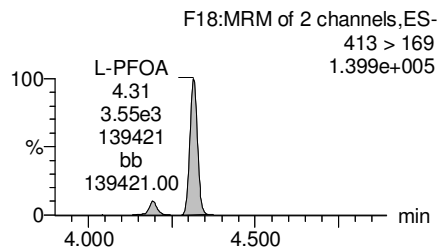
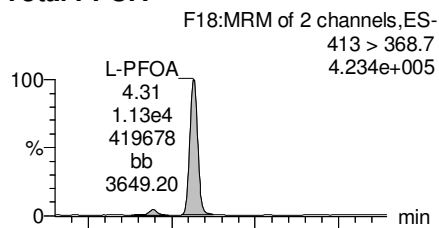
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Last Altered: Thursday, December 28, 2017 14:15:52 Pacific Standard Time

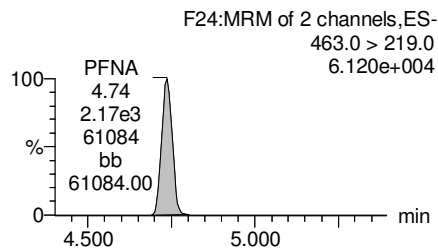
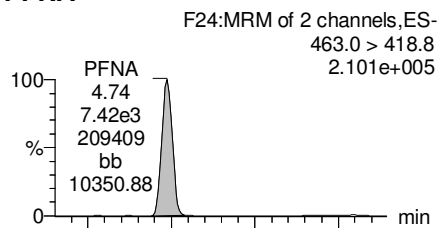
Printed: Thursday, December 28, 2017 14:25:08 Pacific Standard Time

Name: 171228M2\_8, Date: 28-Dec-2017, Time: 13:53:36, ID: B7L0145-MSD1 Matrix Spike Dup 0.11629, Description: Matrix Spike Dup

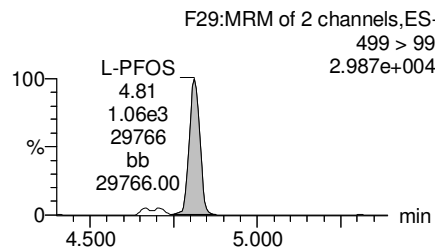
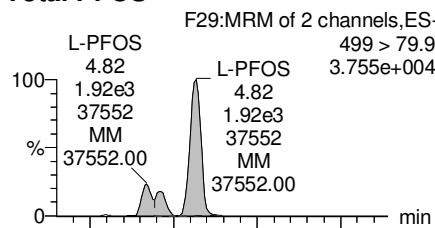
**Total PFOA**



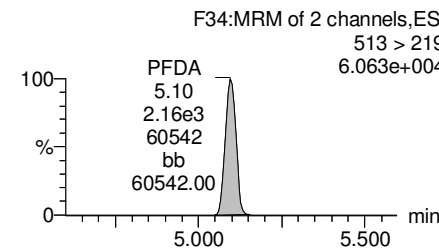
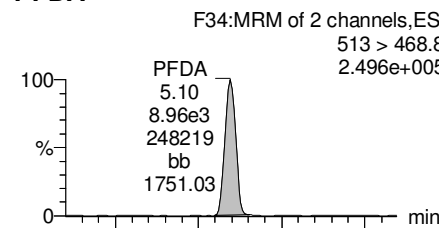
**PFNA**



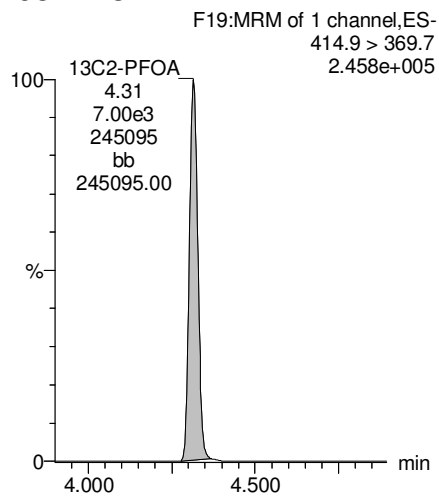
**Total PFOS**



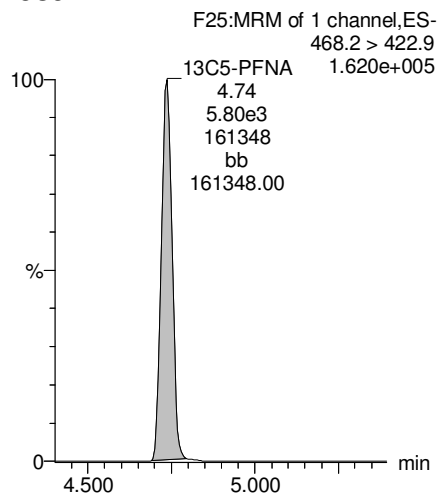
**PFDA**



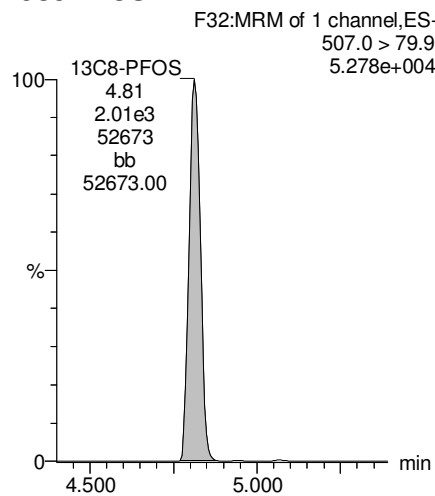
**13C2-PFOA**



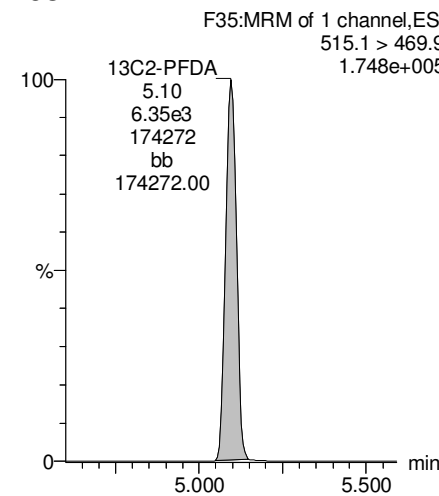
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**





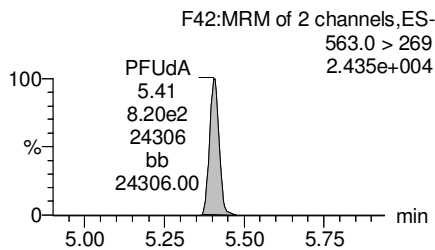
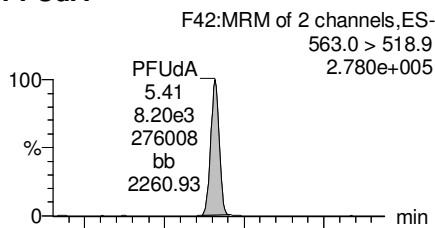
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Last Altered: Thursday, December 28, 2017 14:15:52 Pacific Standard Time

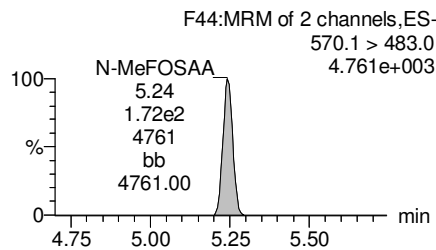
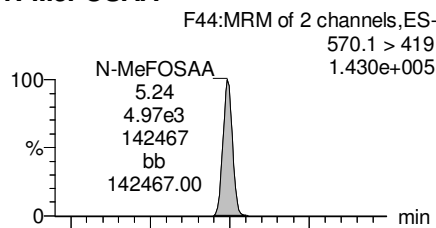
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Name: 171228M2\_8, Date: 28-Dec-2017, Time: 13:53:36, ID: B7L0145-MSD1 Matrix Spike Dup 0.11629, Description: Matrix Spike Dup

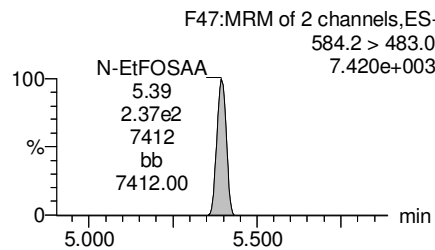
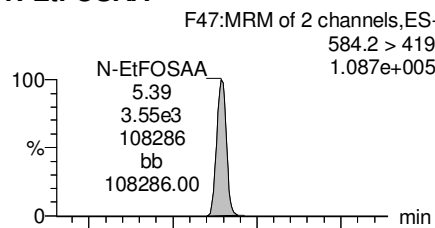
**PFUdA**



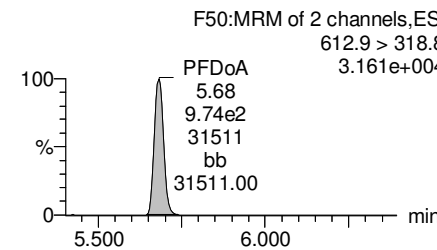
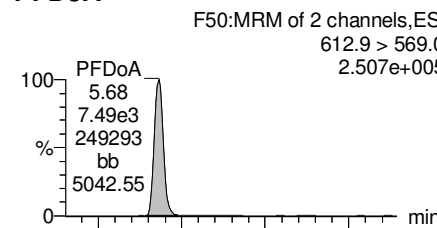
**N-MeFOSAA**



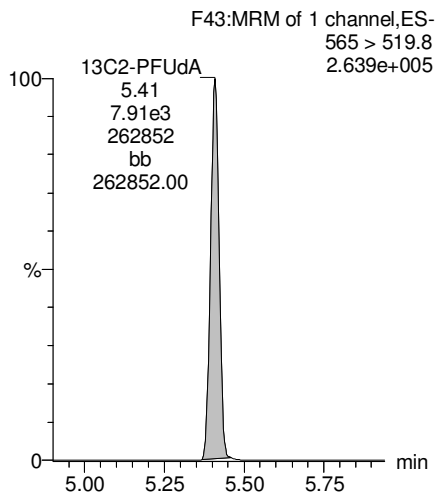
**N-EtFOSAA**



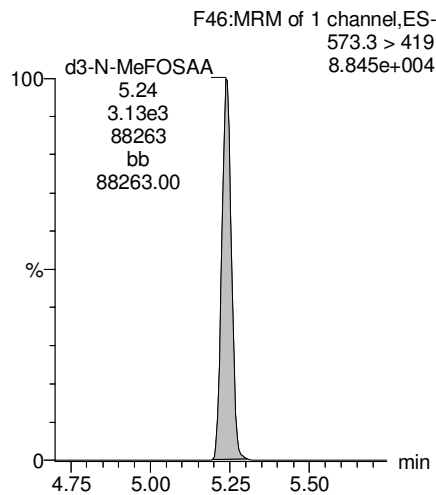
**PFDaA**



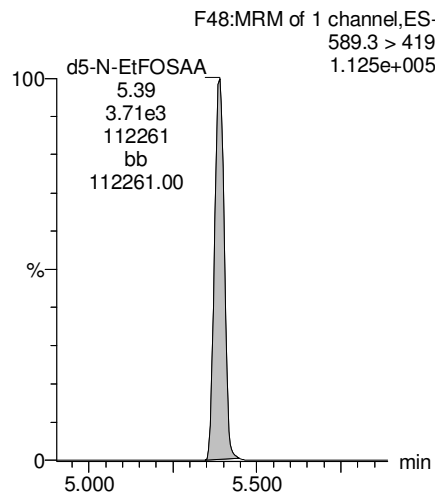
**13C2-PFUdA**



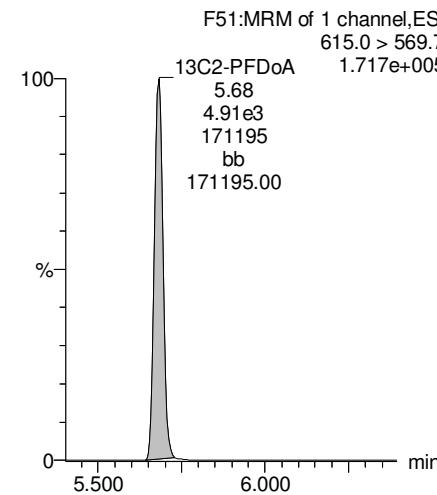
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDaA**



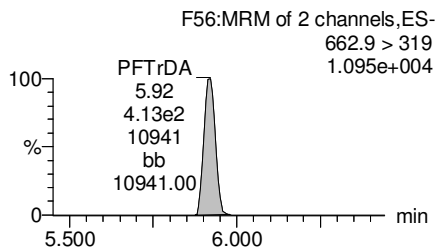
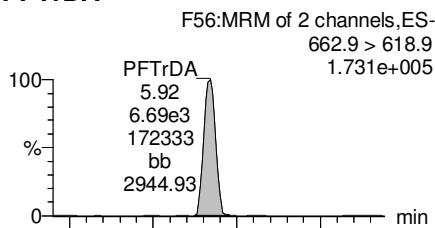
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Last Altered: Thursday, December 28, 2017 14:15:52 Pacific Standard Time

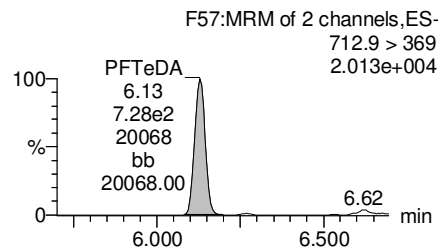
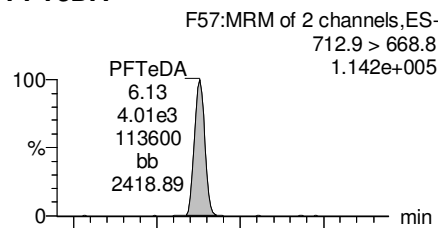
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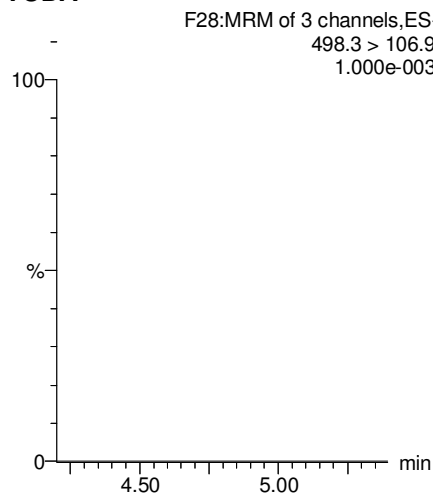
**PFTrDA**



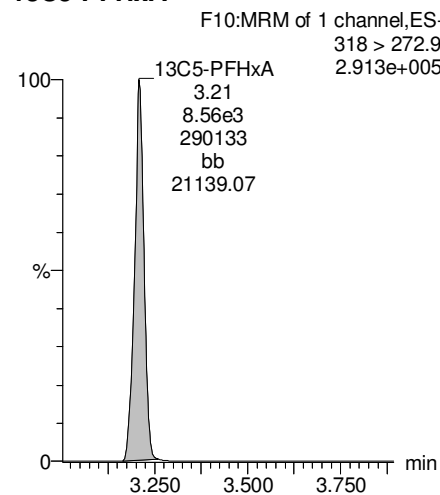
**PFTeDA**



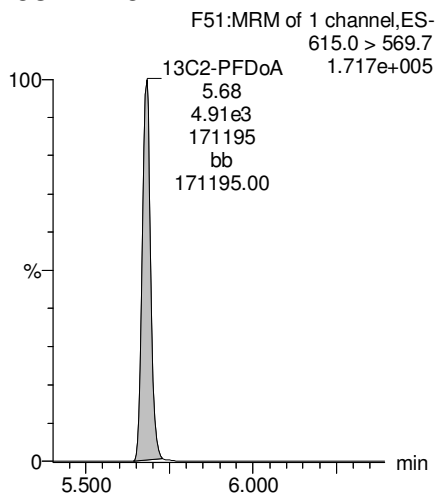
**TCDA**



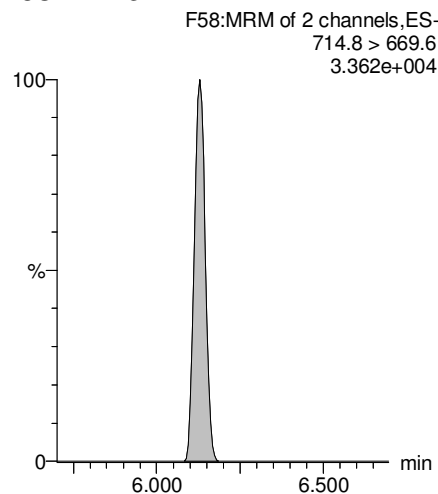
**13C5-PFHxA**



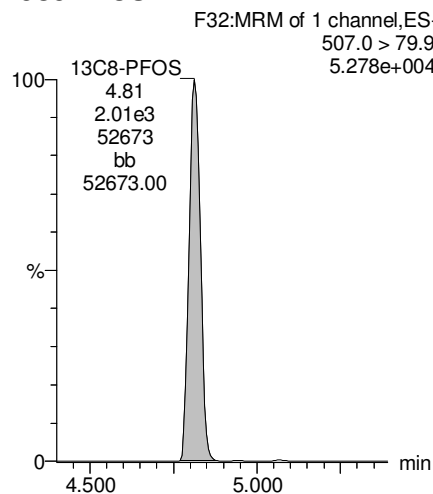
**13C2-PFDoA**



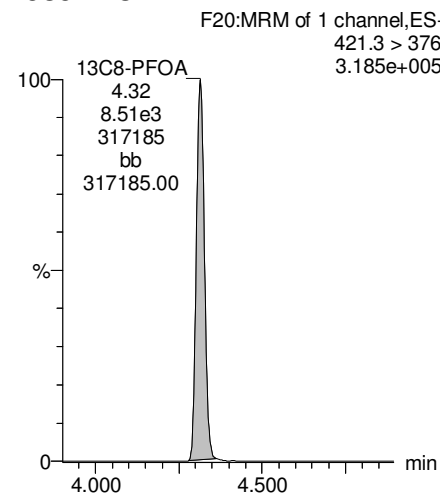
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**



Dataset: U:\Q4.PRO\results\171228M2\171228M2-8.qld

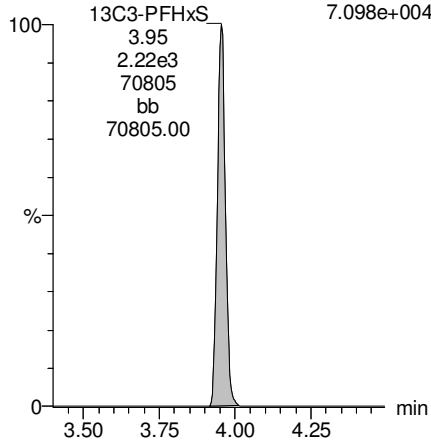
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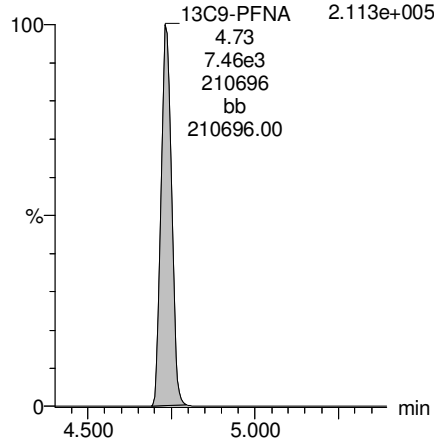
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.098e+004



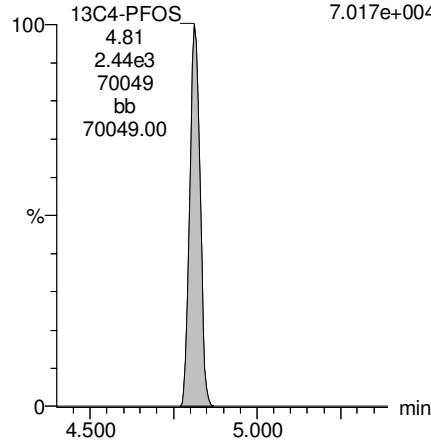
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.113e+005



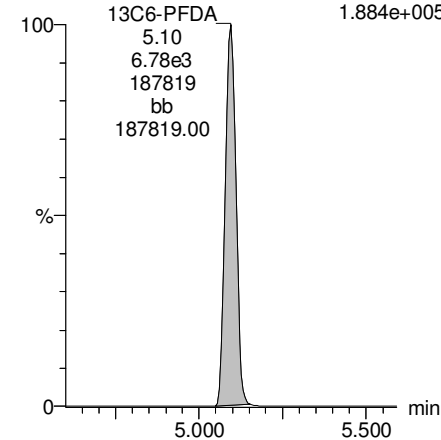
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
7.017e+004



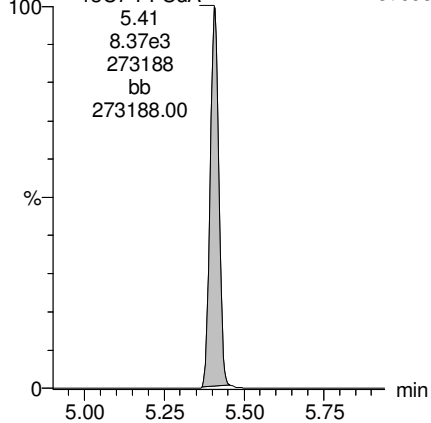
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
1.884e+005



**13C7-PFUDa**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.747e+005



Dataset: U:\Q4.PRO\results\171223M1\171223M1-68.qld

Last Altered: Wednesday, December 27, 2017 14:56:57 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:57:35 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.21e2	1.18e3	0.120		2.70	2.74	2.34	9.275	
2	4	PFHxA	313.2 > 268.9	4.04e3	3.24e3	0.120		3.20	3.23	6.23	35.191	
3	5	PFHpA	363.0 > 318.9	1.14e3	6.03e3	0.120		3.80	3.84	2.36	13.352	
4	6	L-PFHxS	398.9 > 79.6	9.00e2	1.09e3	0.120		3.95	3.98	10.3	47.808	
5	9	L-PFOA	413 > 368.7	4.81e3	1.02e4	0.120		4.32	4.35	5.90	46.576	
6	12	PFNA	463.0 > 418.8	6.83e2	8.07e3	0.120		4.75	4.78	1.06	3.707	
7	14	L-PFOS	499 > 79.9	1.39e2	2.40e3	0.120		4.83	4.85	0.725	5.600	
8	16	PFDA	513 > 468.8		7.82e3	0.120		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.47e3	0.120		5.26				
10	19	N-EtFOSAA	584.2 > 419		3.12e3	0.120		5.42				
11	20	PFUdA	563.0 > 518.9		8.54e3	0.120		5.43				
12	22	PFDoA	612.9 > 569.0		5.43e3	0.120		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-68.qld

Last Altered: Wednesday, December 27, 2017 14:56:57 Pacific Standard Time

Printed: Wednesday, December 27, 2017 14:57:50 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		5.43e3	0.120		5.95				
2	25 PFTeDA	712.9 > 668.8		5.27e3	0.120		6.16				
3	33 13C3-PFBS	302. > 98.8	1.18e3	1.10e4	0.120	0.106	2.70	2.73	1.35	105.872	101.6
4	34 13C2-PFHxA	315 > 269.8	3.24e3	1.10e4	0.120	0.743	3.20	3.22	3.69	41.341	99.2
5	35 13C4-PFHpA	367.2 > 321.8	6.03e3	1.10e4	0.120	0.557	3.80	3.84	6.85	102.637	98.5
6	36 18O2-PFHxS	403.0 > 102.6	1.09e3	2.31e3	0.120	0.433	3.95	3.98	5.92	113.975	109.4
7	37 13C2-6:2 FTS	429.1 > 408.9	2.08e3	7.69e3	0.120	0.275	4.26	4.30	3.39	102.753	98.6
8	38 13C2-PFOA	414.9 > 369.7	1.02e4	7.69e3	0.120	1.141	4.32	4.35	16.5	120.835	116.0
9	39 13C5-PFNA	468.2 > 422.9	8.07e3	7.51e3	0.120	0.963	4.75	4.78	13.4	116.301	111.6
10	40 13C8-PFOSA	506.1 > 77.7	1.95e3	1.04e4	0.120	0.373	4.81	4.84	2.34	52.314	50.2
11	41 13C8-PFOS	507.0 > 79.9	2.40e3	2.87e3	0.120	1.075	4.83	4.85	10.5	81.134	77.9
12	42 13C2-PFDA	515.1 > 469.9	7.82e3	9.30e3	0.120	1.213	5.11	5.14	10.5	72.184	69.3
13	43 13C2-8:2 FTS	529.1 > 508.7	1.22e3	1.10e4	0.120	0.109	5.09	5.12	1.39	105.827	101.6
14	44 d3-N-MeFOSAA	573.3 > 419	2.47e3	1.04e4	0.120	0.405	5.26	5.29	2.97	61.075	58.6
15	45 d5-N-EtFOSAA	589.3 > 419	3.12e3	1.04e4	0.120	0.490	5.42	5.43	3.75	63.689	61.1
16	46 13C2-PFUdA	565 > 519.8	8.54e3	1.04e4	0.120	1.154	5.43	5.45	10.3	74.038	71.1
17	47 13C2-PFDoA	615.0 > 569.7	5.43e3	1.04e4	0.120	0.623	5.70	5.73	6.52	87.355	83.8
18	49 13C2-PFTeDA	714.8 > 669.6	5.27e3	1.04e4	0.120	0.706	6.16	6.18	6.33	74.713	71.7
19	55 13C5-PFHxA	318 > 272.9	1.10e4	1.10e4	0.120	1.000	3.20	3.22	12.5	104.184	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.31e3	2.31e3	0.120	1.000	3.95	3.98	12.5	104.184	100.0
21	57 13C8-PFOA	421.3 > 376	7.69e3	7.69e3	0.120	1.000	4.32	4.35	12.5	104.184	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.51e3	7.51e3	0.120	1.000	4.75	4.78	12.5	104.184	100.0
23	59 13C4-PFOS	503 > 79.9	2.87e3	2.87e3	0.120	1.000	4.83	4.85	12.5	104.184	100.0
24	60 13C6-PFDA	519.1 > 473.7	9.30e3	9.30e3	0.120	1.000	5.11	5.14	12.5	104.184	100.0
25	61 13C7-PFUdA	570.1 > 524.8	1.04e4	1.04e4	0.120	1.000	5.43	5.45	12.5	104.184	100.0
26	62 Total PFHxS	398.9 > 79.6	9.00e2	1.09e3	0.120		4.00		10.3	47.808	
27	63 Total PFOA	413 > 368.7	5.53e3	1.02e4	0.120		4.30		6.79	52.281	
28	64 Total PFOS	499 > 79.9	1.39e2	2.40e3	0.120		4.80		0.725	5.600	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.47e3	0.120		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.12e3	0.120		5.40		0.000		

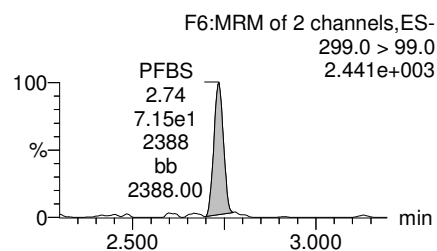
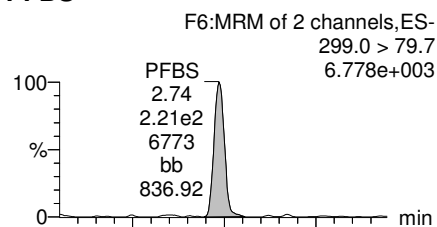
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Printed: Wednesday, December 27, 2017 14:57:50 Pacific Standard Time

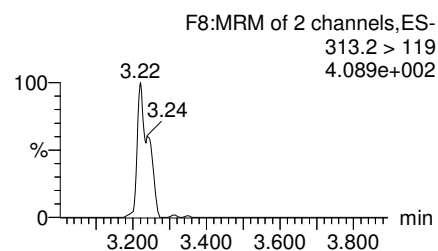
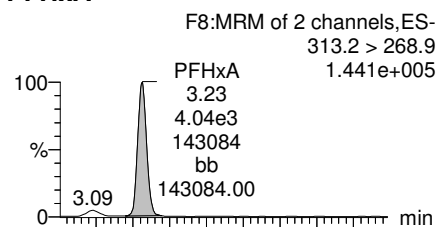
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Name: 171223M1\_68, Date: 24-Dec-2017, Time: 01:26:02, ID: 1701911-07 WI-A06-6-S-26-1217 0.11998, Description: WI-A06-6-S-26-1217

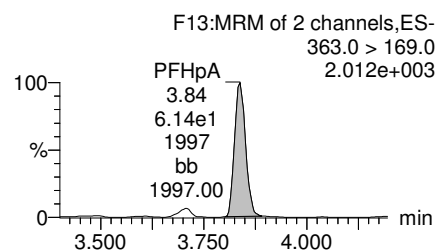
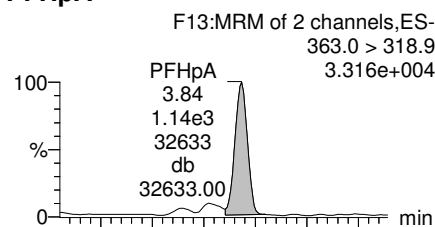
**PFBS**



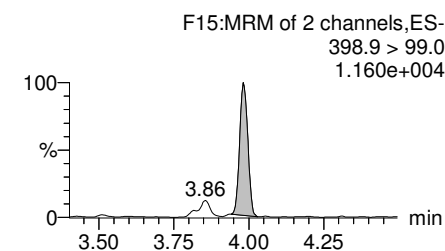
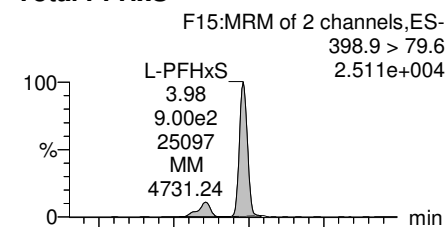
**PFHxA**



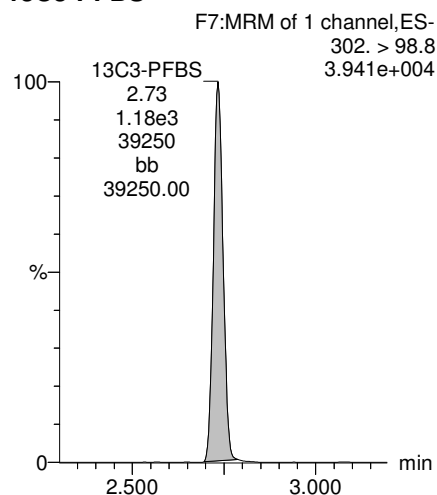
**PFHpA**



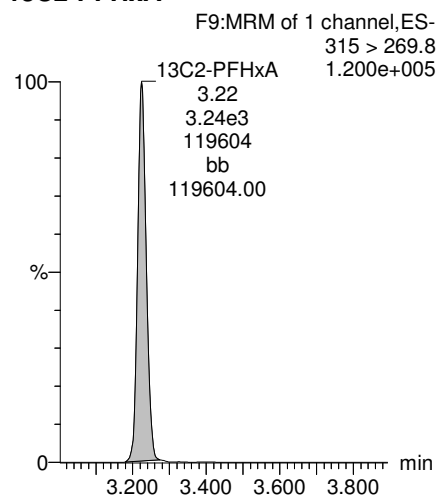
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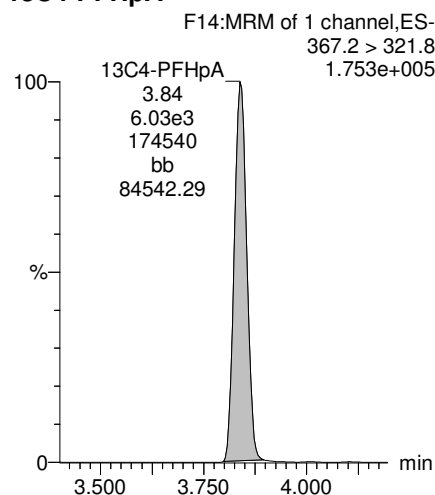
**13C3-PFBS**



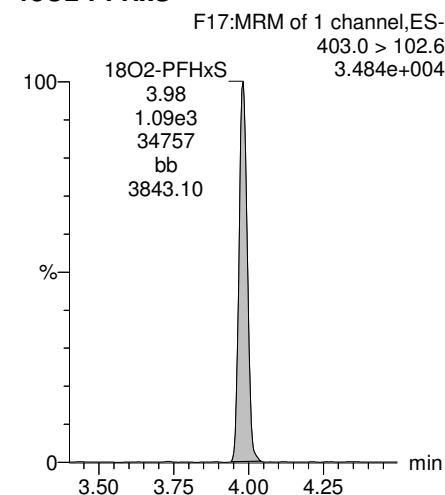
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

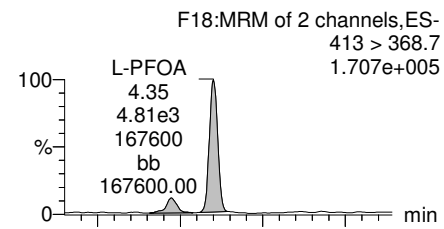


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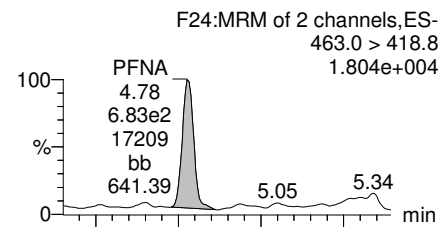
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Printed: Wednesday, December 27, 2017 14:57:50 Pacific Standard Time

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

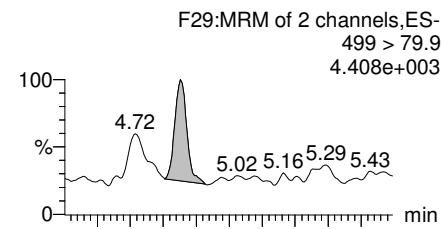
**Total PFOA**



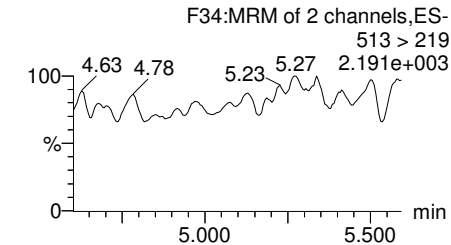
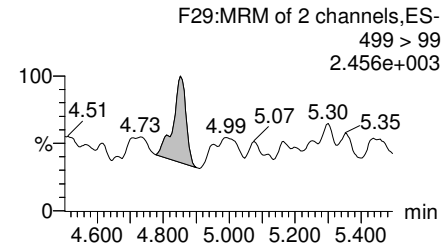
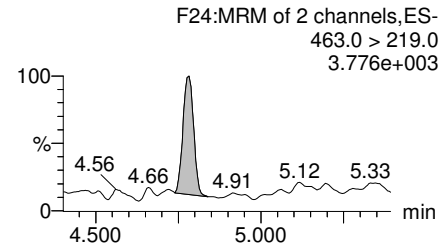
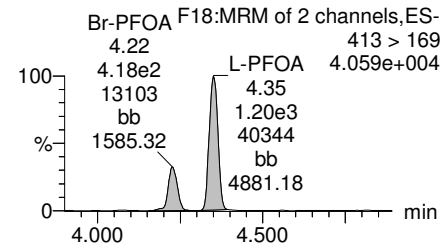
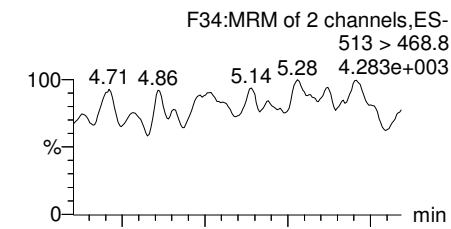
**PFNA**



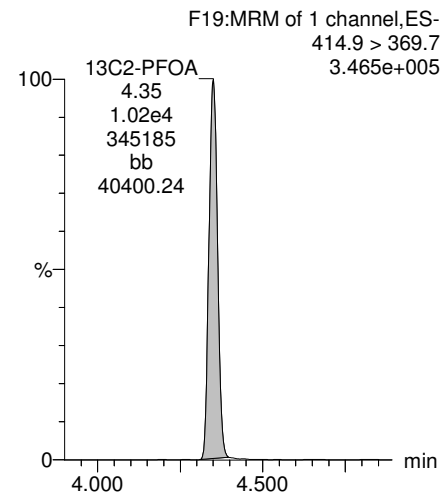
**Total PFOS**



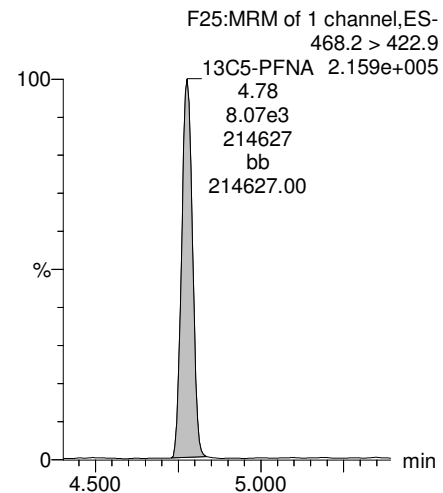
**PFDA**



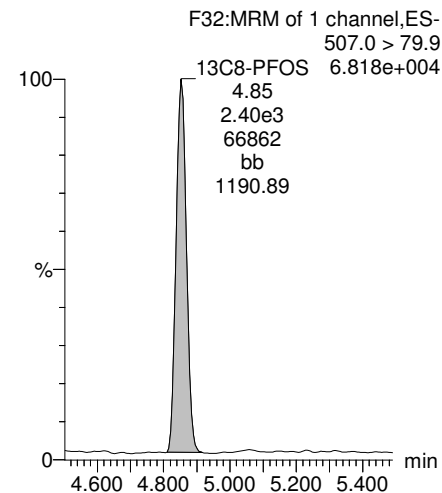
**13C2-PFOA**



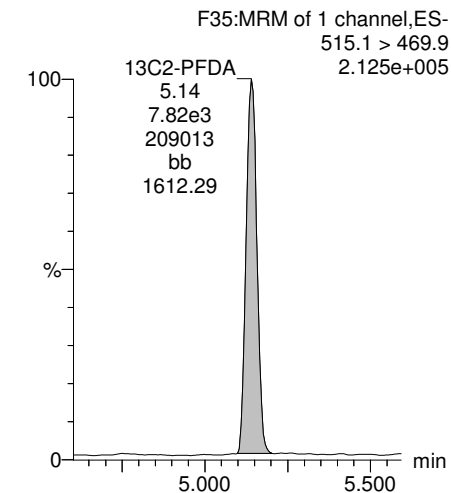
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

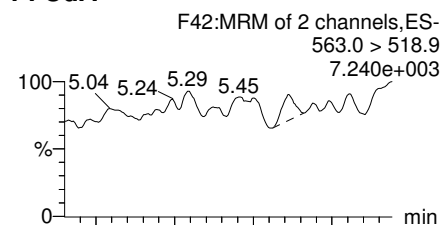


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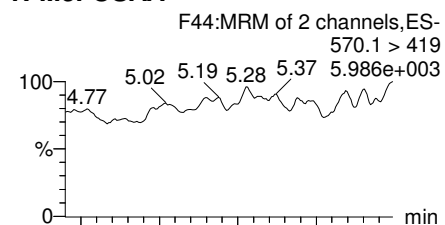
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Name: 171223M1\_68, Date: 24-Dec-2017, Time: 01:26:02, ID: 1701911-07 WI-A06-6-S-26-1217 0.11998, Description: WI-A06-6-S-26-1217

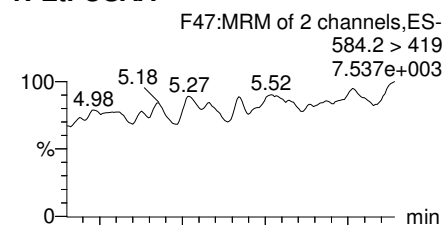
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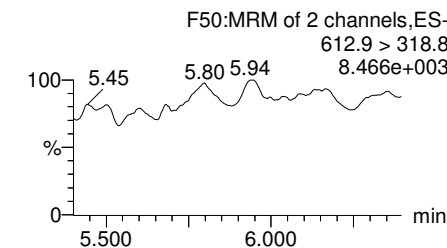
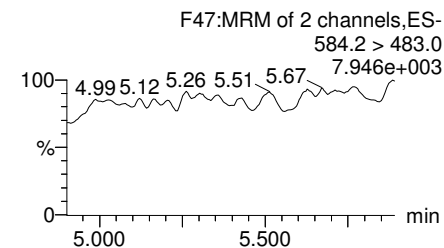
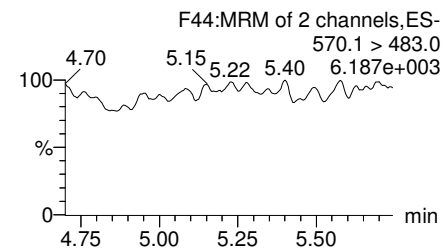
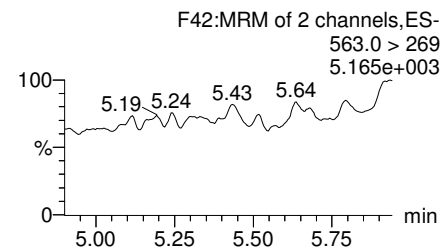
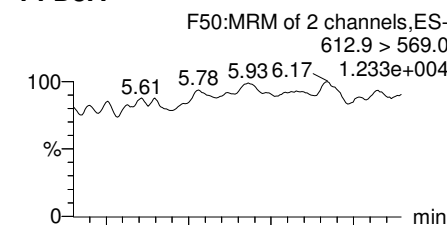
**N-MeFOSAA**



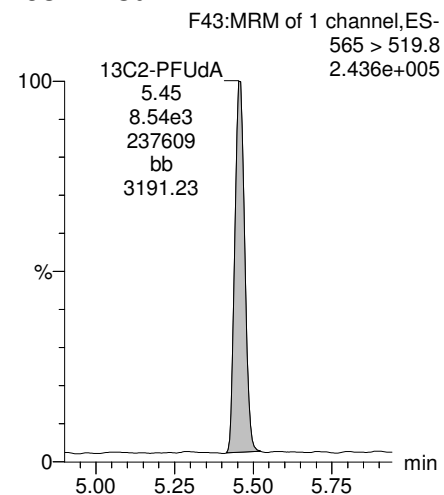
**N-EtFOSAA**



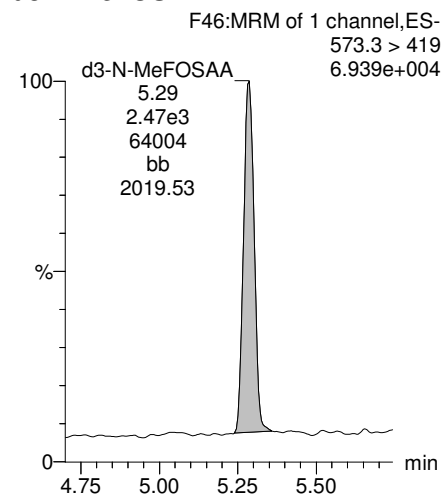
**PFDoA**



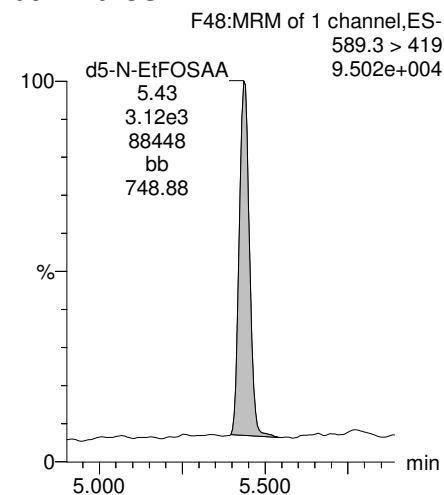
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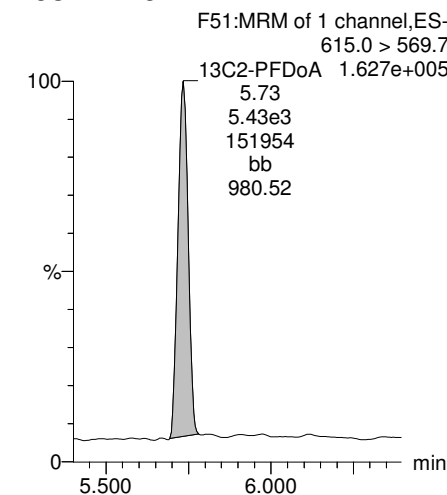
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDoA**

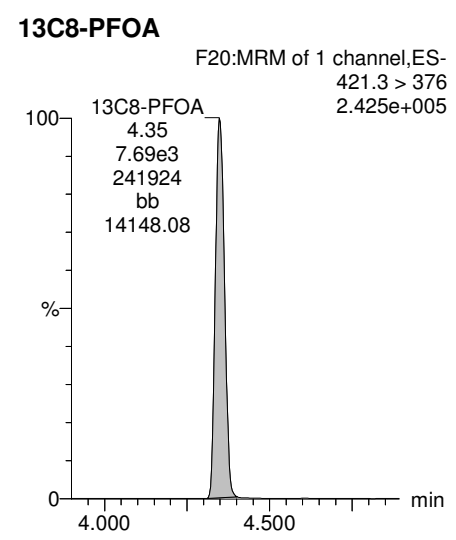
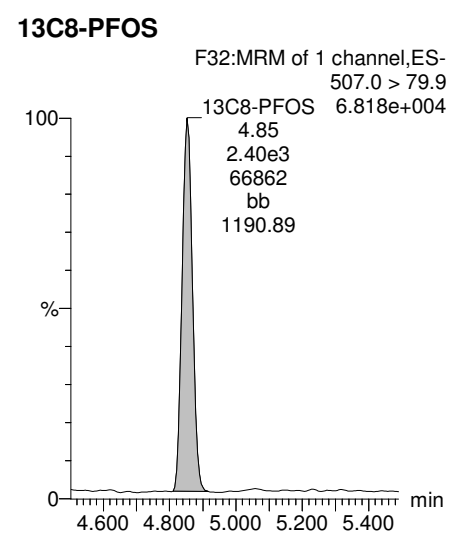
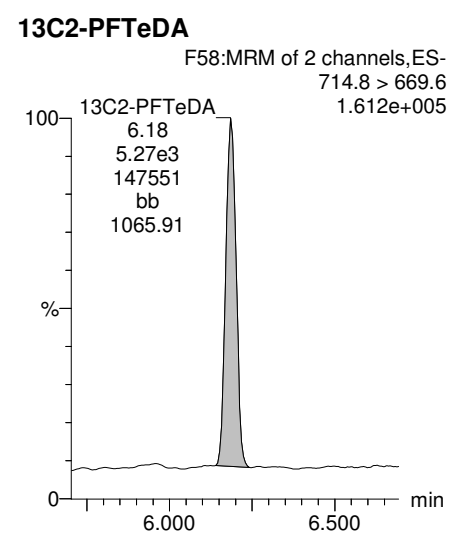
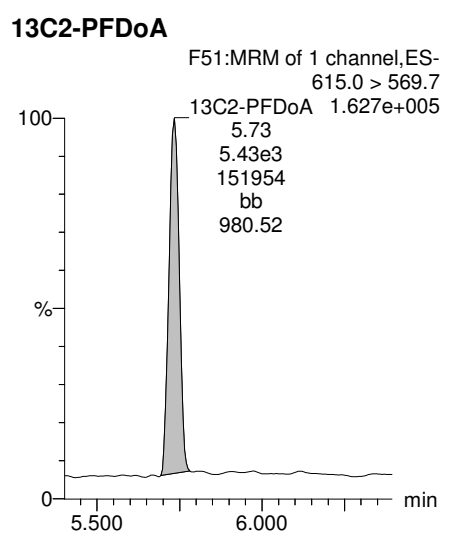
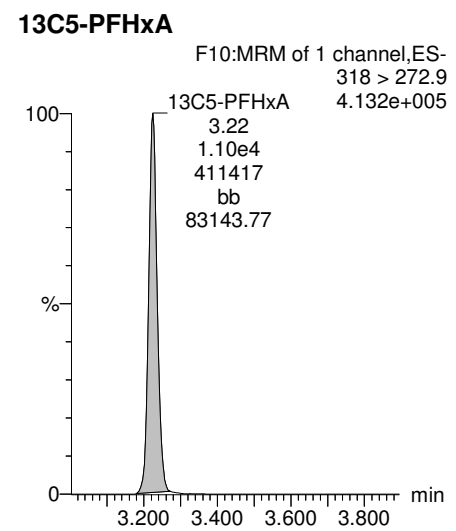
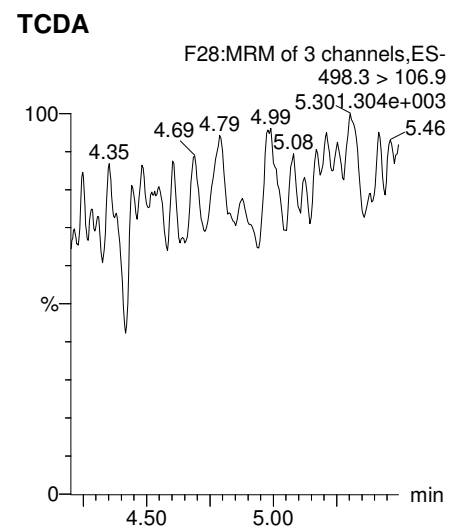
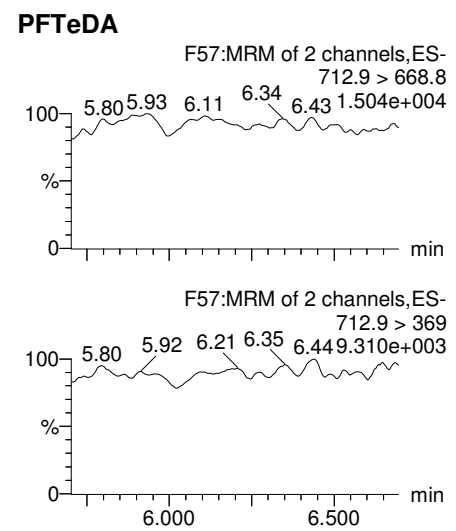
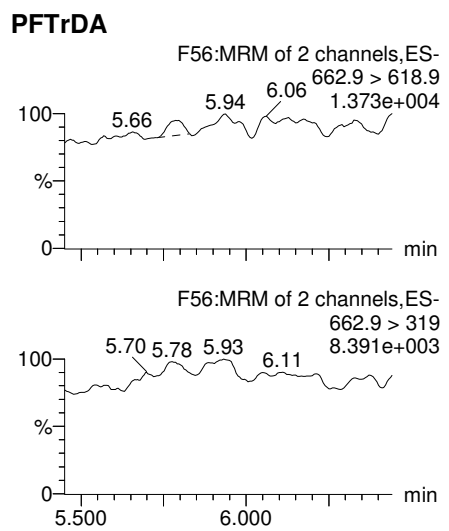




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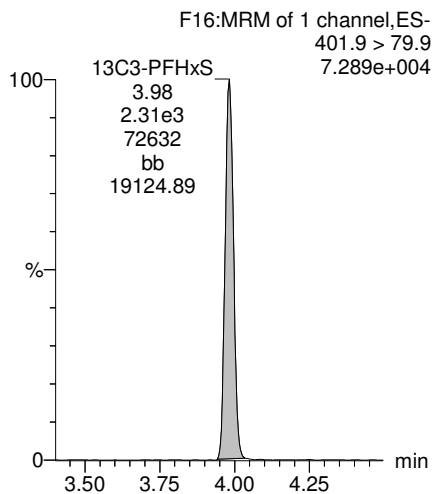


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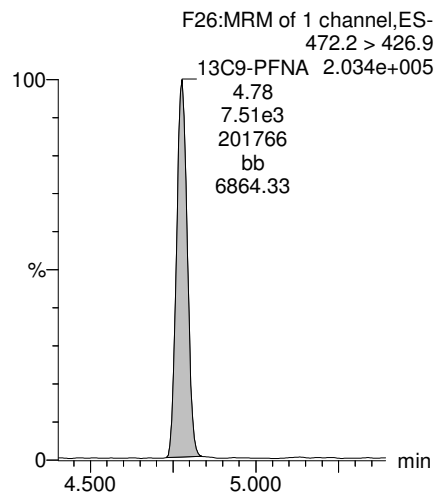
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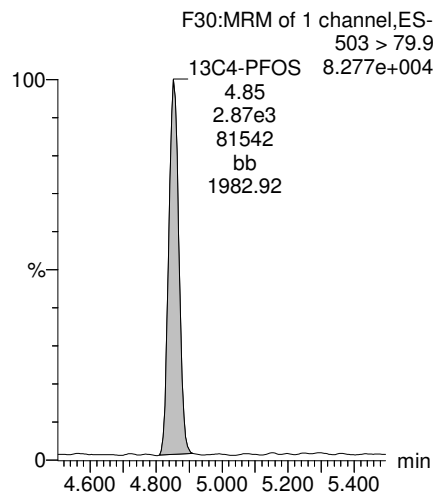
### 13C3-PFHxS



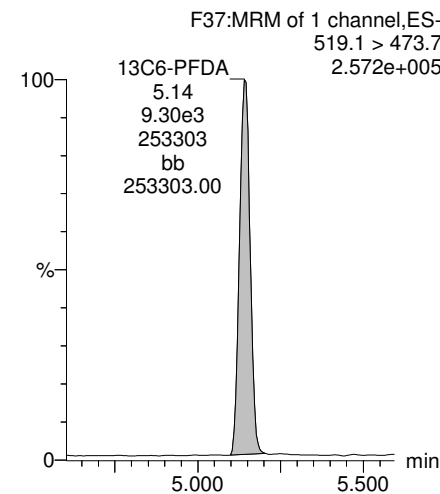
### 13C9-PFNA



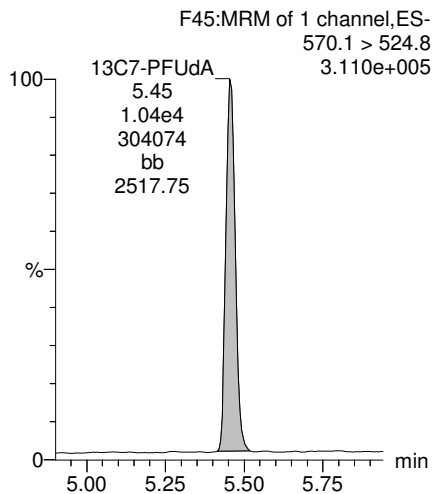
### 13C4-PFOS



### 13C6-PFDA



### 13C7-PFUdA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-69.qld

Last Altered: Wednesday, December 27, 2017 14:59:41 Pacific Standard Time

Printed: Wednesday, December 27, 2017 15:03:22 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\_69, Date: 24-Dec-2017, Time: 01:37:12, ID: 1701911-09 WI-A06-EB04-120717 0.11441, Description: WI-A06-EB04-120717

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		8.33e2	0.114		2.70				
2	4	PFHxA	313.2 > 268.9		1.97e3	0.114		3.20				
3	5	PFHpA	363.0 > 318.9		3.89e3	0.114		3.80				
4	6	L-PFHxS	398.9 > 79.6		6.03e2	0.114		3.95				
5	9	L-PFOA	413 > 368.7	2.00e2	6.36e3	0.114		4.32	4.35	0.392	1.751	
6	12	PFNA	463.0 > 418.8		4.88e3	0.114		4.75				
7	14	L-PFOS	499 > 79.9		1.83e3	0.114		4.83				
8	16	PFDA	513 > 468.8		6.24e3	0.114		5.11				
9	18	N-MeFOSAA	570.1 > 419		1.62e3	0.114		5.26				
10	19	N-EtFOSAA	584.2 > 419		1.72e3	0.114		5.42				
11	20	PFUdA	563.0 > 518.9		5.03e3	0.114		5.43				
12	22	PFDoA	612.9 > 569.0		3.63e3	0.114		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-69.qld

Last Altered: Wednesday, December 27, 2017 14:59:41 Pacific Standard Time

Printed: Wednesday, December 27, 2017 15:03:38 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\_69, Date: 24-Dec-2017, Time: 01:37:12, ID: 1701911-09 WI-A06-EB04-120717 0.11441, Description: WI-A06-EB04-120717

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.63e3	0.114		5.95				
2	25 PFTeDA	712.9 > 668.8		3.31e3	0.114		6.16				
3	33 13C3-PFBS	302. > 98.8	8.33e2	9.91e3	0.114	0.106	2.70	2.73	1.05	86.704	79.4
4	34 13C2-PFHxA	315 > 269.8	1.97e3	9.91e3	0.114	0.743	3.20	3.23	2.49	29.231	66.9
5	35 13C4-PFHpA	367.2 > 321.8	3.89e3	9.91e3	0.114	0.557	3.80	3.84	4.91	77.066	70.5
6	36 18O2-PFHxS	403.0 > 102.6	6.03e2	2.23e3	0.114	0.433	3.95	3.99	3.38	68.383	62.6
7	37 13C2-6:2 FTS	429.1 > 408.9	1.49e3	7.51e3	0.114	0.275	4.26	4.30	2.47	78.738	72.1
8	38 13C2-PFOA	414.9 > 369.7	6.36e3	7.51e3	0.114	1.141	4.32	4.35	10.6	81.072	74.2
9	39 13C5-PFNA	468.2 > 422.9	4.88e3	9.01e3	0.114	0.963	4.75	4.78	6.77	61.499	56.3
10	40 13C8-PFOSA	506.1 > 77.7	7.42e2	6.57e3	0.114	0.373	4.81	4.84	1.41	33.031	30.2
11	41 13C8-PFOS	507.0 > 79.9	1.83e3	2.46e3	0.114	1.075	4.83	4.86	9.34	75.919	69.5
12	42 13C2-PFDA	515.1 > 469.9	6.24e3	9.11e3	0.114	1.213	5.11	5.14	8.56	61.658	56.4
13	43 13C2-8:2 FTS	529.1 > 508.7	7.20e2	9.91e3	0.114	0.109	5.09	5.11	0.908	72.603	66.5
14	44 d3-N-MeFOSAA	573.3 > 419	1.62e3	6.57e3	0.114	0.405	5.26	5.29	3.07	66.230	60.6
15	45 d5-N-EtFOSAA	589.3 > 419	1.72e3	6.57e3	0.114	0.490	5.42	5.44	3.27	58.365	53.4
16	46 13C2-PFUdA	565 > 519.8	5.03e3	6.57e3	0.114	1.154	5.43	5.46	9.56	72.382	66.3
17	47 13C2-PFDoA	615.0 > 569.7	3.63e3	6.57e3	0.114	0.623	5.70	5.73	6.90	96.865	88.7
18	49 13C2-PFTeDA	714.8 > 669.6	3.31e3	6.57e3	0.114	0.706	6.16	6.18	6.30	77.978	71.4
19	55 13C5-PFHxA	318 > 272.9	9.91e3	9.91e3	0.114	1.000	3.20	3.22	12.5	109.256	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.23e3	2.23e3	0.114	1.000	3.95	3.98	12.5	109.256	100.0
21	57 13C8-PFOA	421.3 > 376	7.51e3	7.51e3	0.114	1.000	4.32	4.35	12.5	109.256	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.01e3	9.01e3	0.114	1.000	4.75	4.78	12.5	109.256	100.0
23	59 13C4-PFOS	503 > 79.9	2.46e3	2.46e3	0.114	1.000	4.83	4.85	12.5	109.256	100.0
24	60 13C6-PFDA	519.1 > 473.7	9.11e3	9.11e3	0.114	1.000	5.11	5.15	12.5	109.256	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.57e3	6.57e3	0.114	1.000	5.43	5.46	12.5	109.256	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	6.03e2	0.114		4.00		0.000		
27	63 Total PFOA	413 > 368.7	2.00e2	6.36e3	0.114		4.30		0.392	1.751	
28	64 Total PFOS	499 > 79.9	0.00e0	1.83e3	0.114		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	1.62e3	0.114		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	1.72e3	0.114		5.40		0.000		

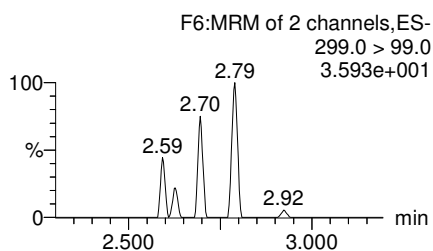
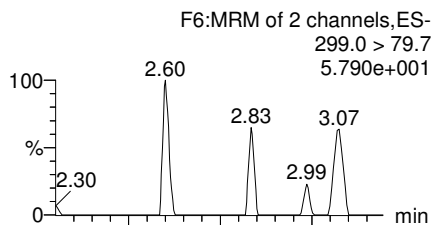
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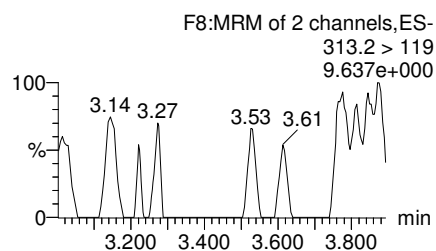
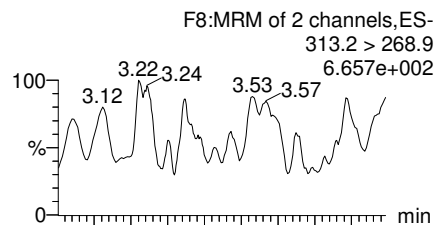
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Name: 171223M1\_69, Date: 24-Dec-2017, Time: 01:37:12, ID: 1701911-09 WI-A06-EB04-120717 0.11441, Description: WI-A06-EB04-120717

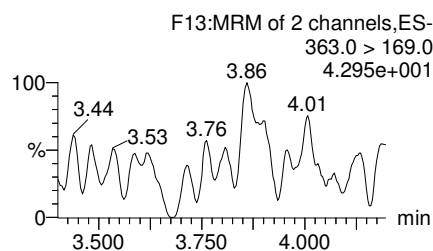
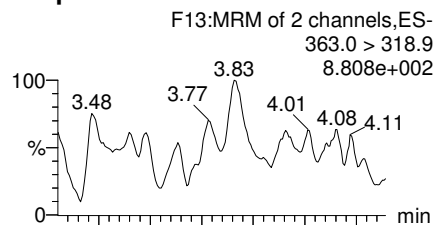
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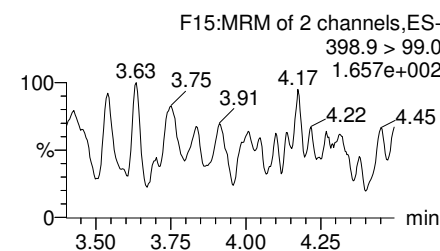
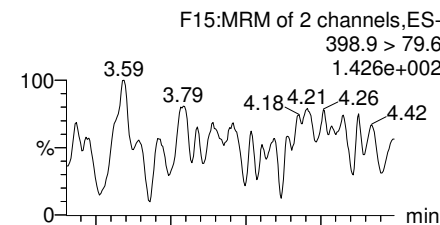
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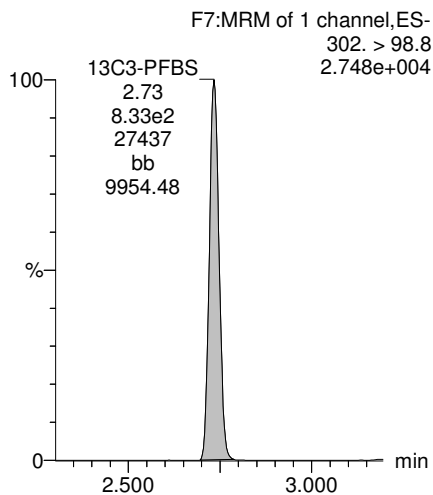
PFHpA



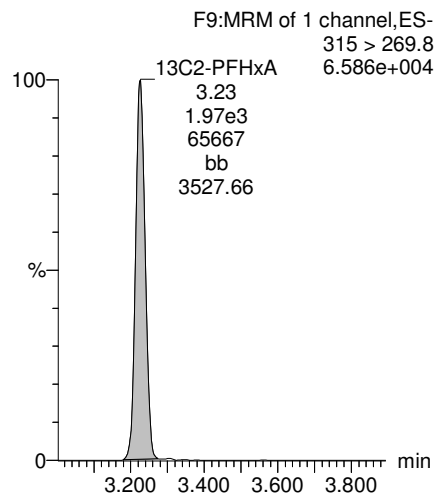
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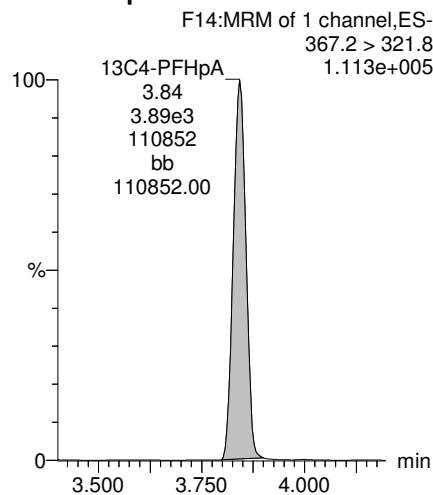
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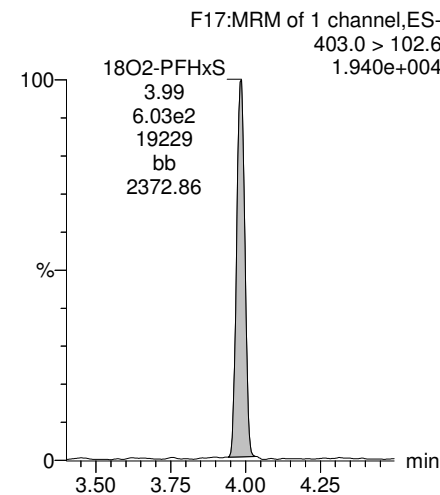
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

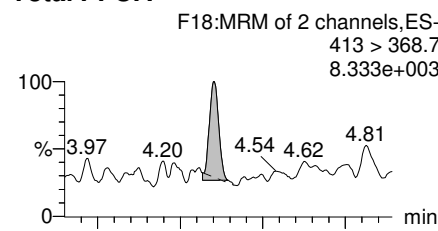


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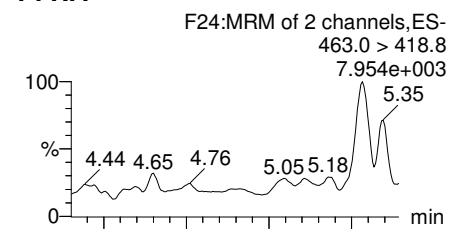
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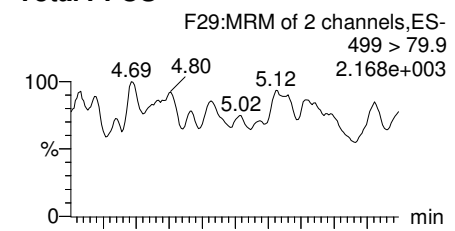
**Total PFOA**



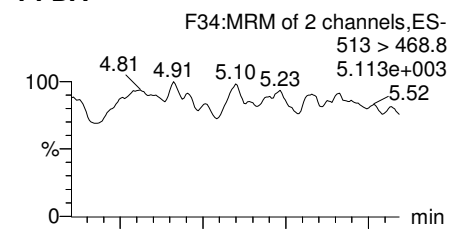
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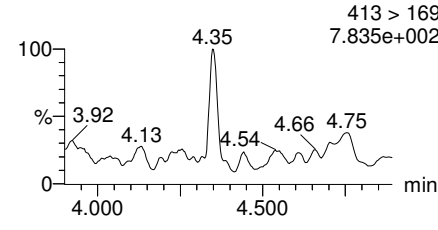
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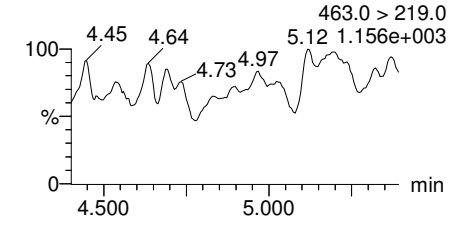
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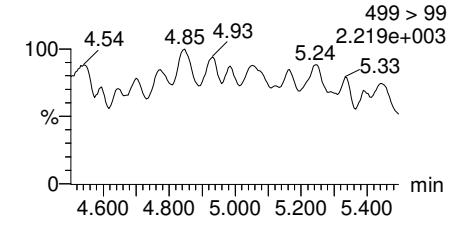
**Total PFOA**



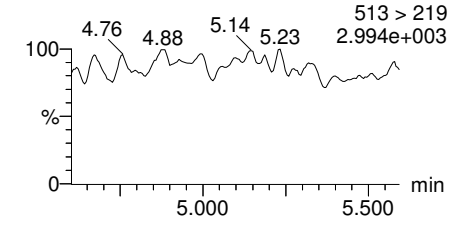
**PFNA**



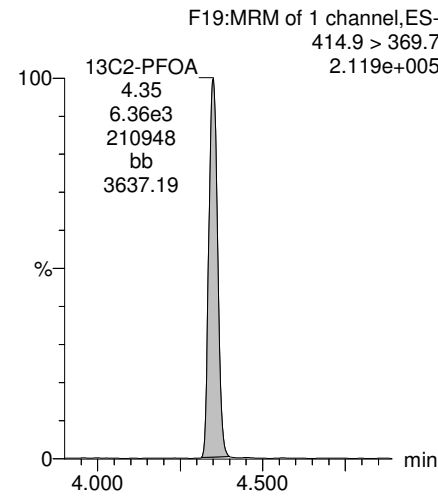
**Total PFOS**



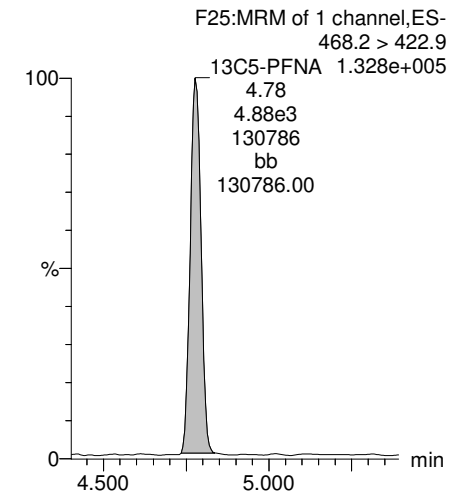
**PFDA**



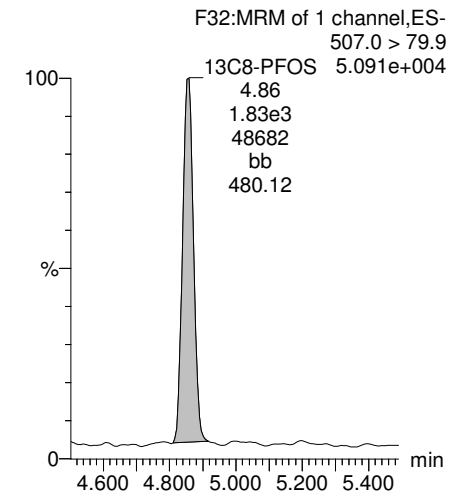
**13C2-PFOA**



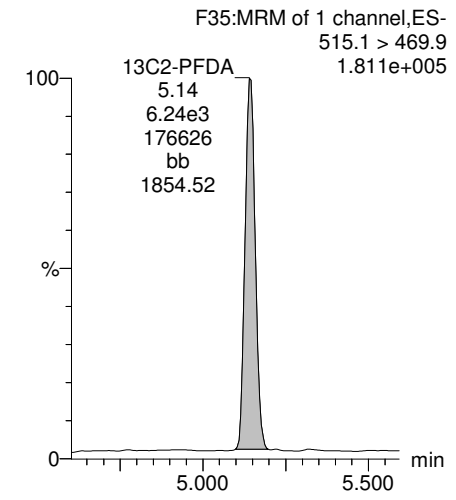
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

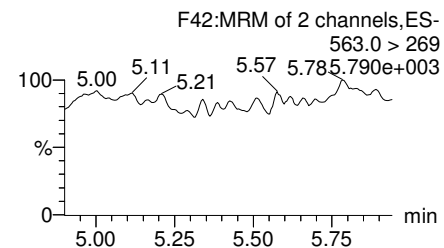
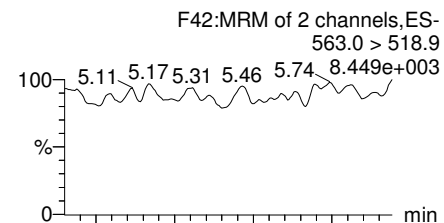


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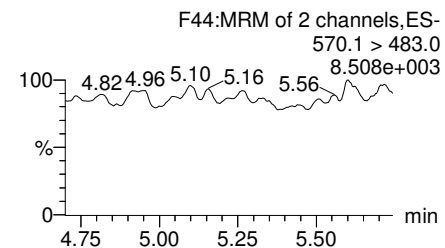
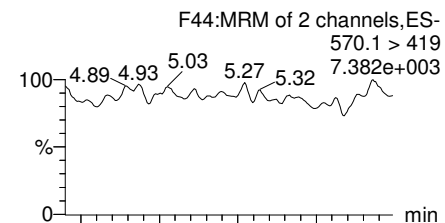
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Printed: Wednesday, December 27, 2017 15:03:38 Pacific Standard Time

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

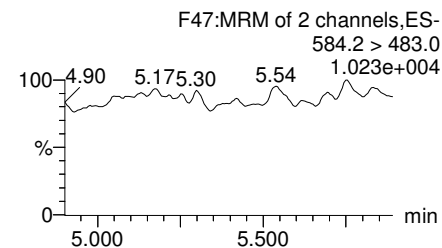
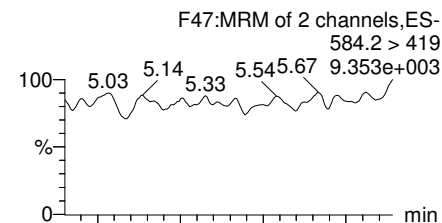
**PFUdA**



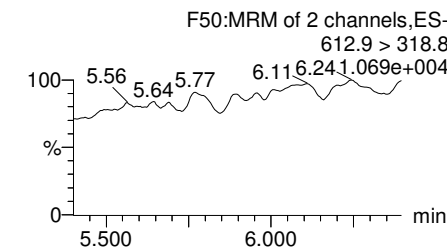
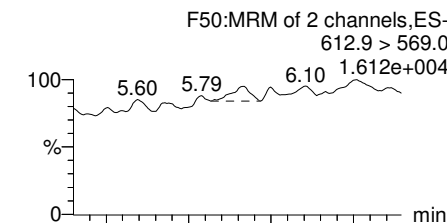
**N-MeFOSAA**



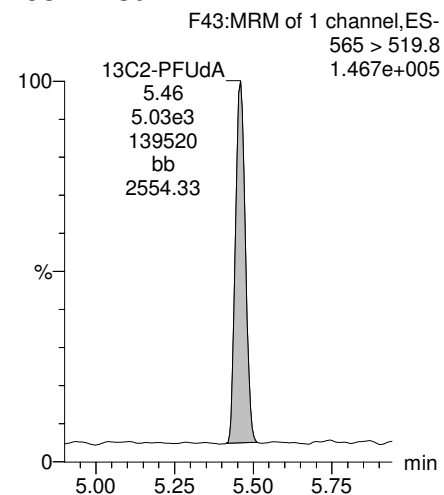
**N-EtFOSAA**



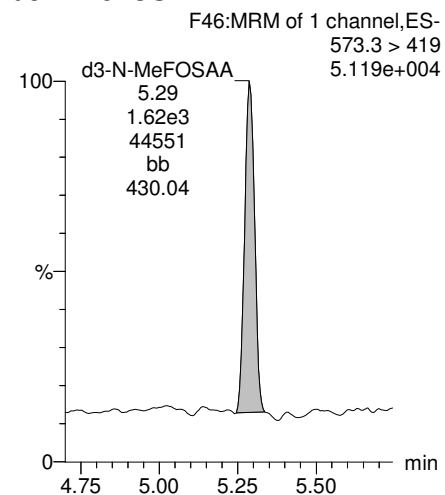
**PFDoA**



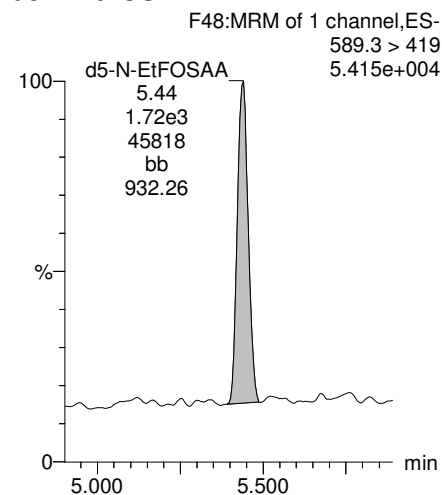
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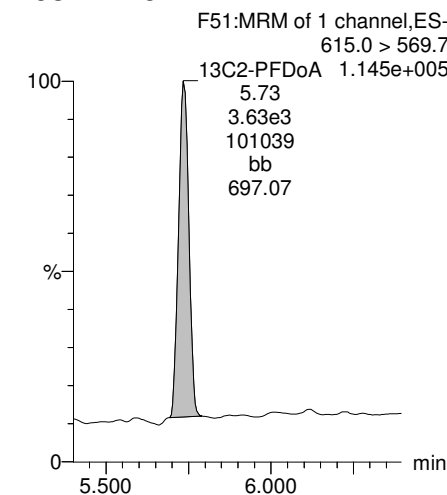
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



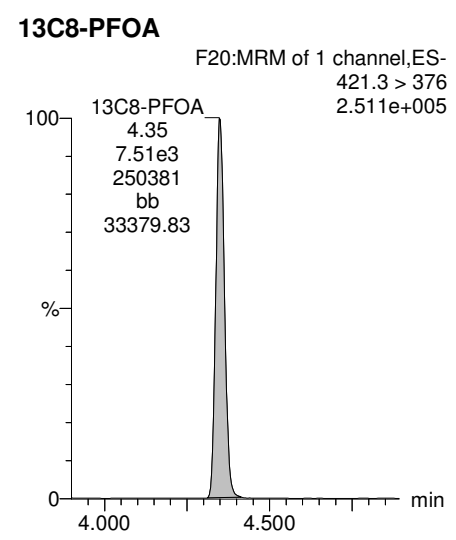
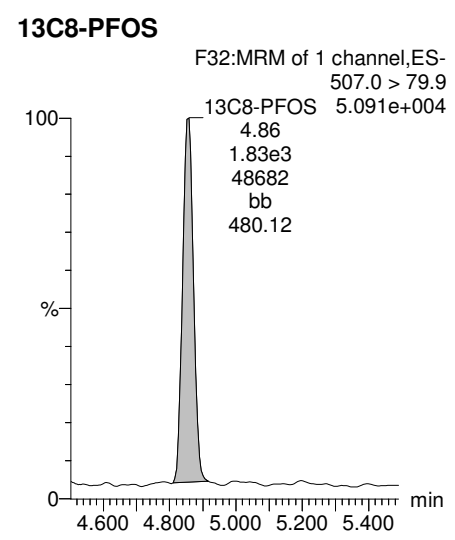
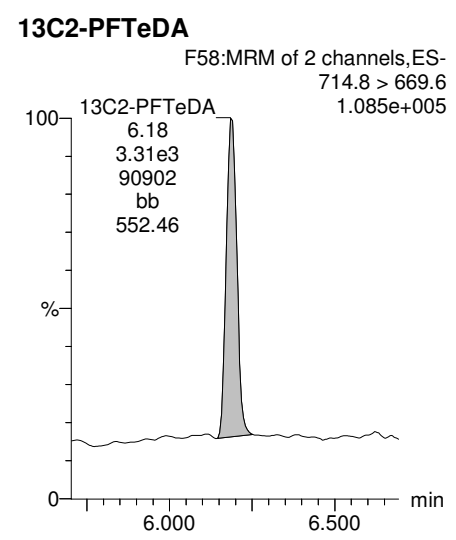
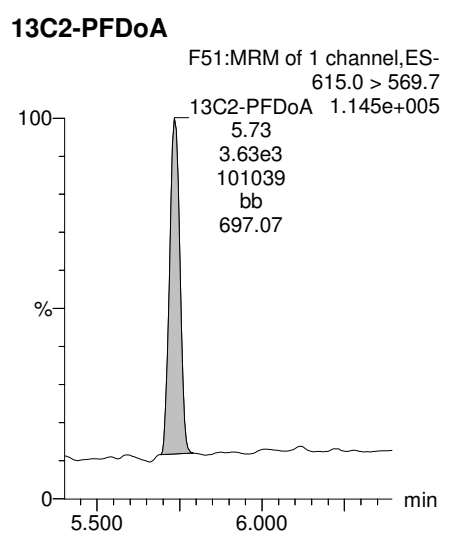
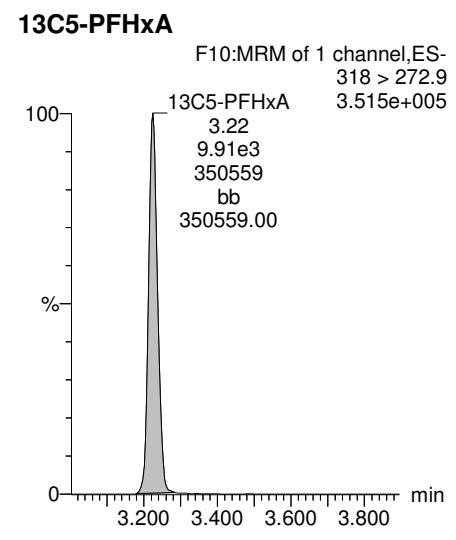
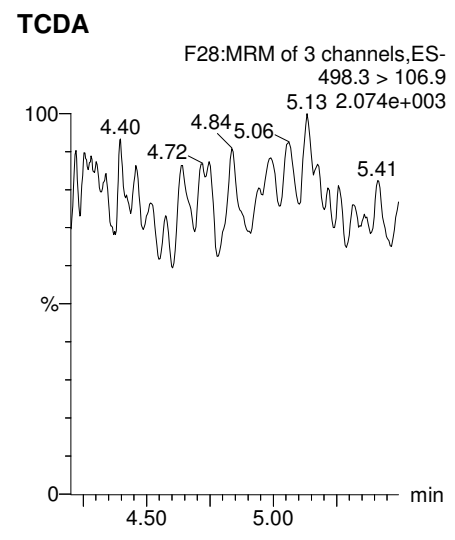
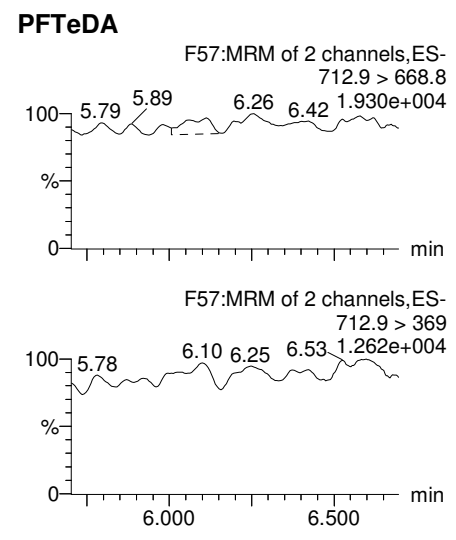
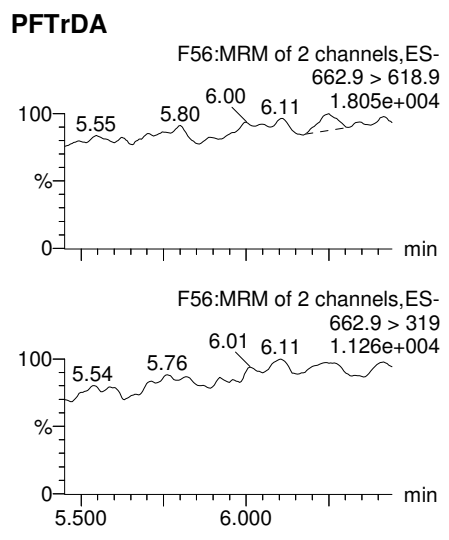
**13C2-PFDoA**



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Printed: Wednesday, December 27, 2017 15:03:38 Pacific Standard Time

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





Dataset: U:\Q4.PRO\results\171223M1\171223M1-69.qld

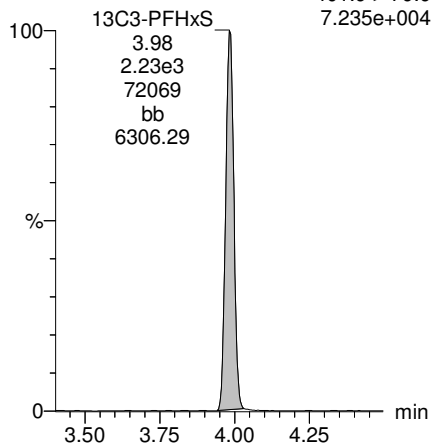
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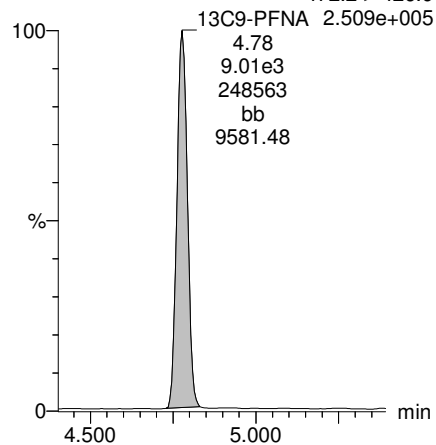
### 13C3-PFHxS

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.235e+004



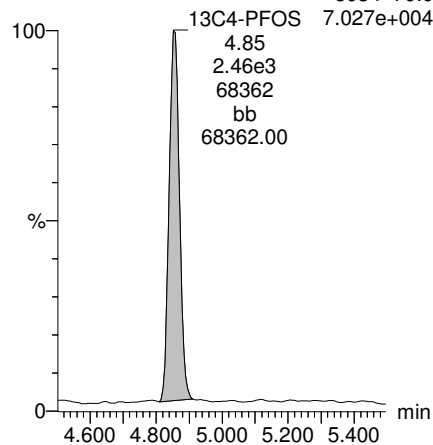
### 13C9-PFNA

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.509e+005



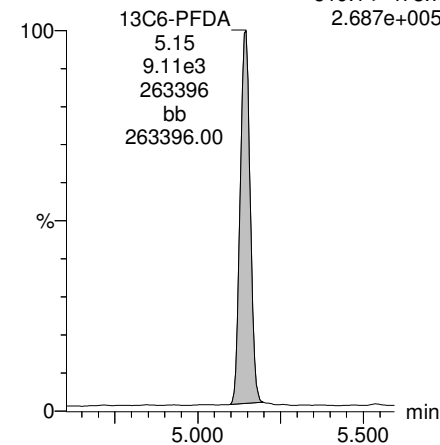
### 13C4-PFOS

F30:MRM of 1 channel,ES-  
503 > 79.9  
7.027e+004



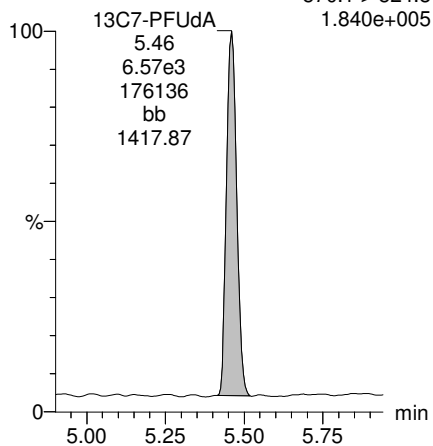
### 13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.687e+005



### 13C7-PFudA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
1.840e+005



Dataset: U:\Q4.PRO\results\171223M1\171223M1-70.qld

Last Altered: Wednesday, December 27, 2017 15:09:25 Pacific Standard Time

Printed: Wednesday, December 27, 2017 15:10:00 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\_70, Date: 24-Dec-2017, Time: 01:48:24, ID: 1701911-11 WI-A06-EB05-120717 0.12078, Description: WI-A06-EB05-120717

	#	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	0.121		2.70				
2	4	PFHxA	313.2 > 268.9		3.03e3	0.121		3.20				
3	5	PFHpA	363.0 > 318.9		5.82e3	0.121		3.80				
4	6	L-PFHxS	398.9 > 79.6		9.44e2	0.121		3.95				
5	9	L-PFOA	413 > 368.7	1.73e2	9.29e3	0.121		4.32	4.35	0.233	0.366	
6	12	PFNA	463.0 > 418.8		6.56e3	0.121		4.75				
7	14	L-PFOS	499 > 79.9		2.13e3	0.121		4.83				
8	16	PFDA	513 > 468.8		6.84e3	0.121		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.20e3	0.121		5.26				
10	19	N-EtFOSAA	584.2 > 419		2.72e3	0.121		5.42				
11	20	PFUdA	563.0 > 518.9		6.66e3	0.121		5.43				
12	22	PFDoA	612.9 > 569.0		4.45e3	0.121		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-70.qld

Last Altered: Wednesday, December 27, 2017 15:09:25 Pacific Standard Time

Printed: Wednesday, December 27, 2017 15:10:14 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\_70, Date: 24-Dec-2017, Time: 01:48:24, ID: 1701911-11 WI-A06-EB05-120717 0.12078, Description: WI-A06-EB05-120717

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.45e3	0.121		5.95				
2	25 PFTeDA	712.9 > 668.8		4.51e3	0.121		6.16				
3	33 13C3-PFBS	302. > 98.8	1.09e3	1.06e4	0.121	0.106	2.70	2.73	1.29	100.556	97.2
4	34 13C2-PFHxA	315 > 269.8	3.03e3	1.06e4	0.121	0.743	3.20	3.22	3.56	39.677	95.8
5	35 13C4-PFHpA	367.2 > 321.8	5.82e3	1.06e4	0.121	0.557	3.80	3.84	6.85	101.955	98.5
6	36 18O2-PFHxS	403.0 > 102.6	9.44e2	2.13e3	0.121	0.433	3.95	3.98	5.55	106.159	102.6
7	37 13C2-6:2 FTS	429.1 > 408.9	1.87e3	8.43e3	0.121	0.275	4.26	4.30	2.77	83.561	80.7
8	38 13C2-PFOA	414.9 > 369.7	9.29e3	8.43e3	0.121	1.141	4.32	4.35	13.8	99.811	96.4
9	39 13C5-PFNA	468.2 > 422.9	6.56e3	8.89e3	0.121	0.963	4.75	4.77	9.22	79.335	76.7
10	40 13C8-PFOSA	506.1 > 77.7	1.35e3	9.38e3	0.121	0.373	4.81	4.83	1.80	39.897	38.5
11	41 13C8-PFOS	507.0 > 79.9	2.13e3	2.40e3	0.121	1.075	4.83	4.85	11.1	85.190	82.3
12	42 13C2-PFDA	515.1 > 469.9	6.84e3	7.51e3	0.121	1.213	5.11	5.14	11.4	77.702	75.1
13	43 13C2-8:2 FTS	529.1 > 508.7	1.37e3	1.06e4	0.121	0.109	5.09	5.11	1.61	121.728	117.6
14	44 d3-N-MeFOSAA	573.3 > 419	2.20e3	9.38e3	0.121	0.405	5.26	5.29	2.93	59.818	57.8
15	45 d5-N-EtFOSAA	589.3 > 419	2.72e3	9.38e3	0.121	0.490	5.42	5.44	3.62	61.181	59.1
16	46 13C2-PFUdA	565 > 519.8	6.66e3	9.38e3	0.121	1.154	5.43	5.45	8.88	63.663	61.5
17	47 13C2-PFDoA	615.0 > 569.7	4.45e3	9.38e3	0.121	0.623	5.70	5.73	5.93	78.840	76.2
18	49 13C2-PFTeDA	714.8 > 669.6	4.51e3	9.38e3	0.121	0.706	6.16	6.18	6.01	70.498	68.1
19	55 13C5-PFHxA	318 > 272.9	1.06e4	1.06e4	0.121	1.000	3.20	3.22	12.5	103.494	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.13e3	2.13e3	0.121	1.000	3.95	3.98	12.5	103.494	100.0
21	57 13C8-PFOA	421.3 > 376	8.43e3	8.43e3	0.121	1.000	4.32	4.35	12.5	103.494	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.89e3	8.89e3	0.121	1.000	4.75	4.77	12.5	103.494	100.0
23	59 13C4-PFOS	503 > 79.9	2.40e3	2.40e3	0.121	1.000	4.83	4.85	12.5	103.494	100.0
24	60 13C6-PFDA	519.1 > 473.7	7.51e3	7.51e3	0.121	1.000	5.11	5.14	12.5	103.494	100.0
25	61 13C7-PFUdA	570.1 > 524.8	9.38e3	9.38e3	0.121	1.000	5.43	5.45	12.5	103.494	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	9.44e2	0.121		4.00		0.000		
27	63 Total PFOA	413 > 368.7	1.73e2	9.29e3	0.121		4.30		0.233	0.366	
28	64 Total PFOS	499 > 79.9	0.00e0	2.13e3	0.121		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.20e3	0.121		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.72e3	0.121		5.40		0.000		

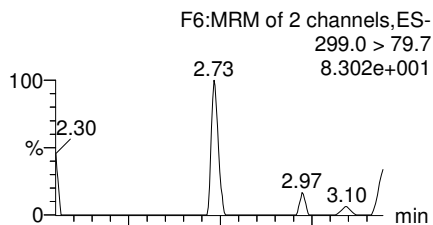
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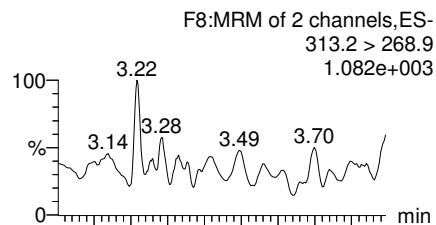
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Name: 171223M1\_70, Date: 24-Dec-2017, Time: 01:48:24, ID: 1701911-11 WI-A06-EB05-120717 0.12078, Description: WI-A06-EB05-120717

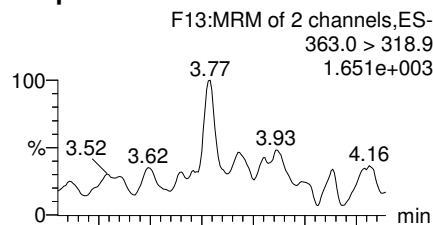
PFBS



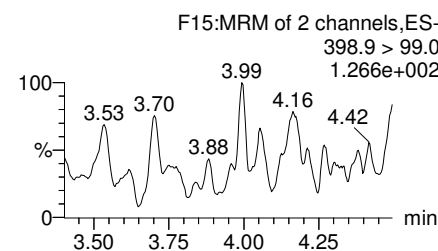
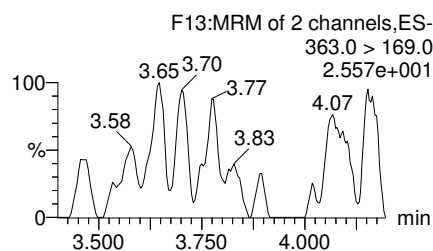
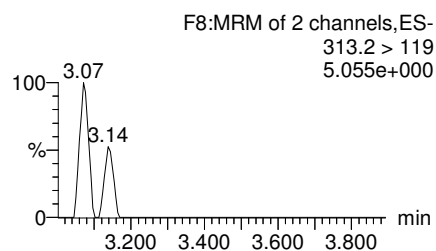
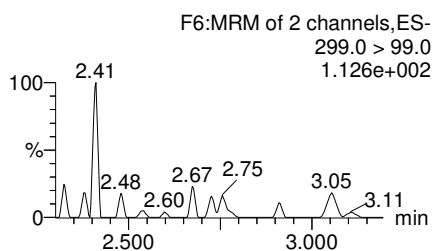
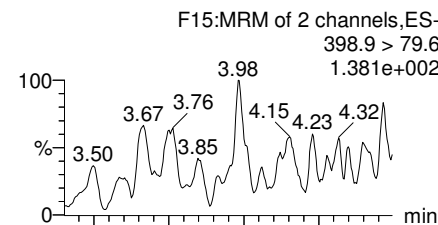
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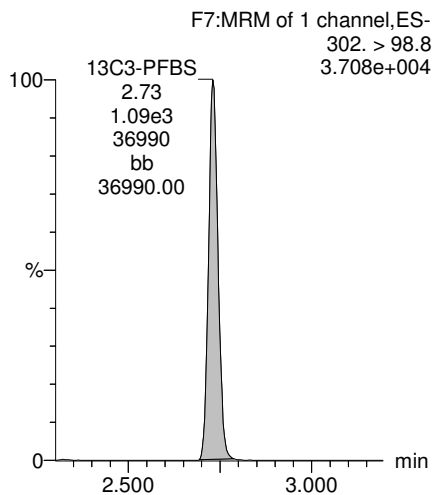
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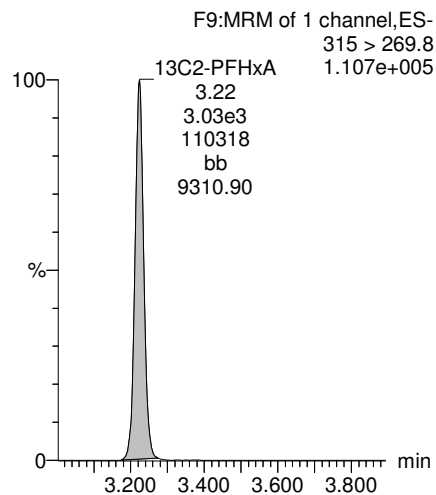
Total PFHxS



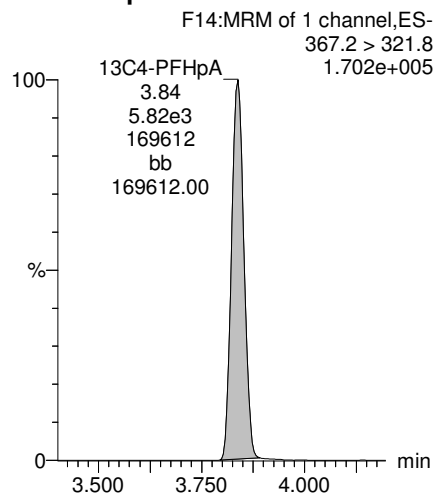
13C3-PFBS



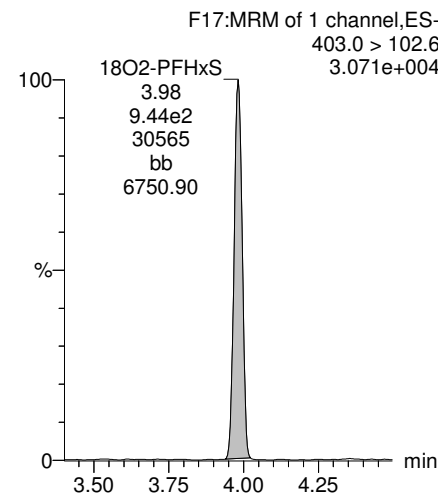
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

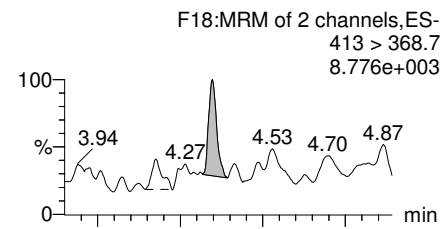


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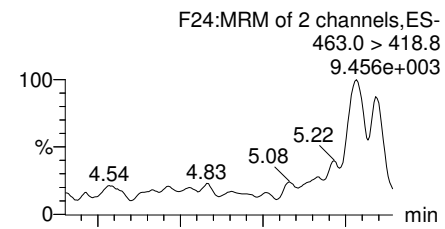
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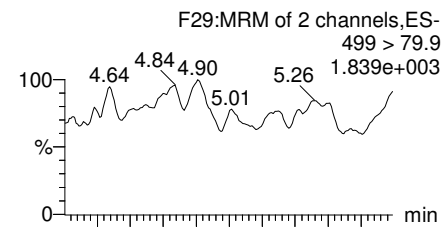
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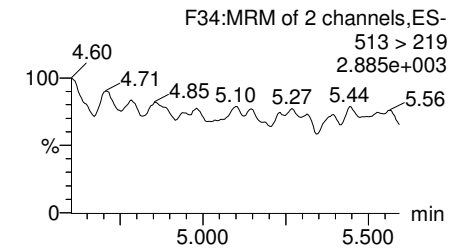
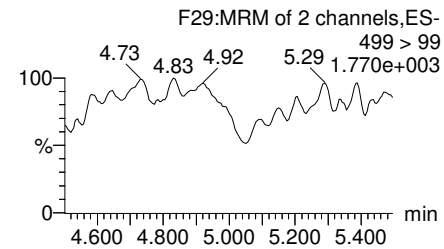
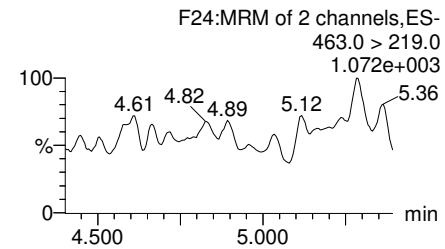
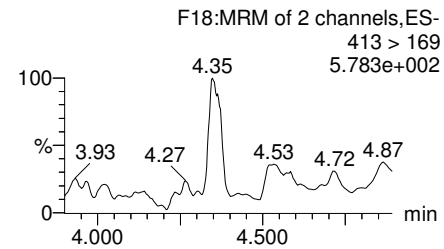
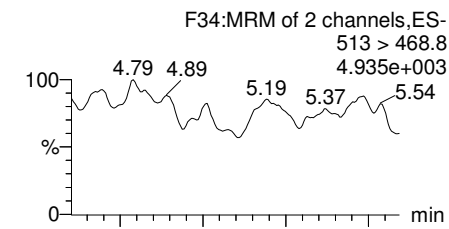
**PFNA**



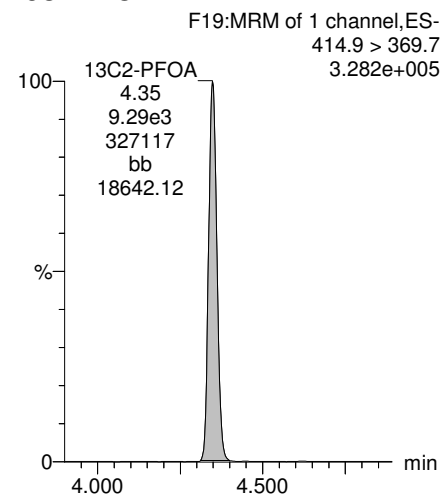
**Total PFOS**



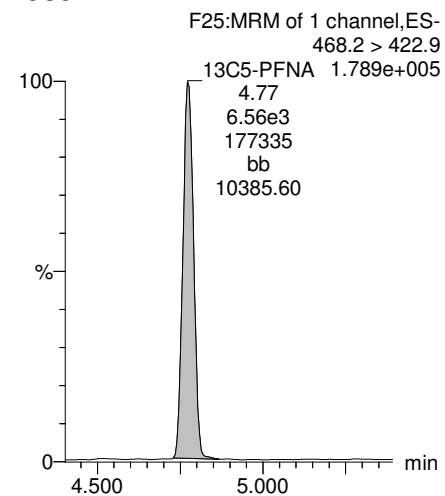
**PFDA**



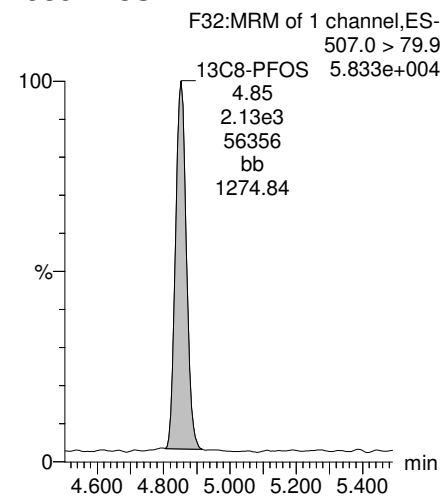
**13C2-PFOA**



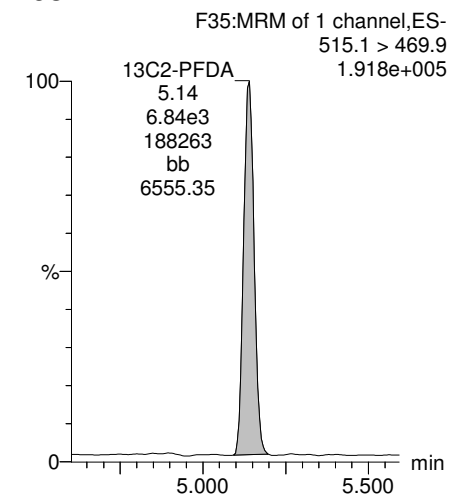
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

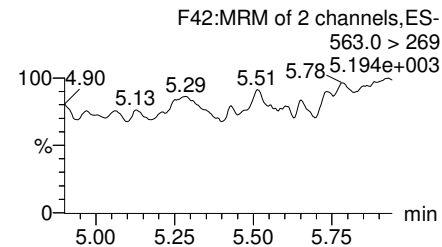
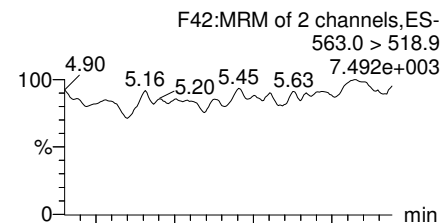


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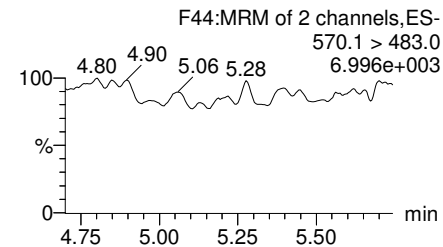
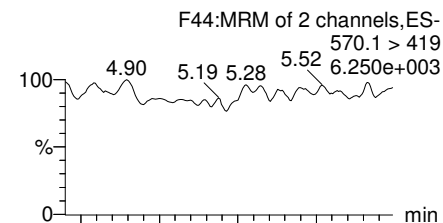
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Printed: Wednesday, December 27, 2017 15:10:14 Pacific Standard Time

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

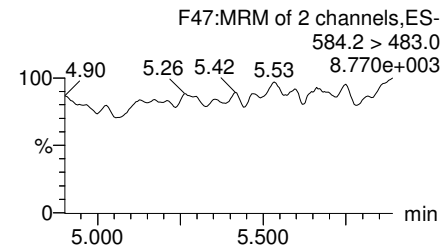
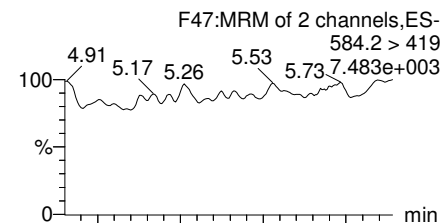
**PFUdA**



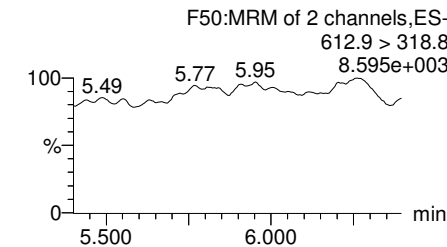
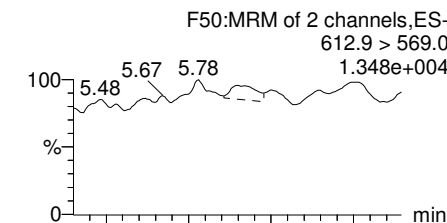
**N-MeFOSAA**



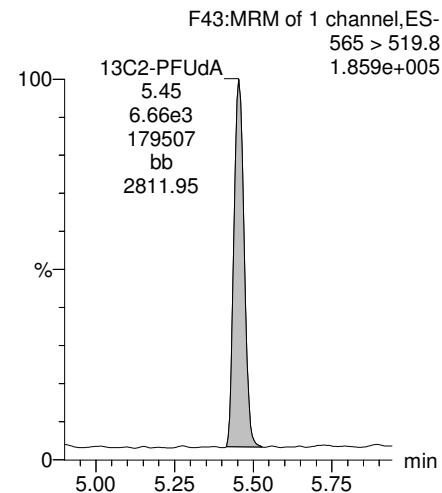
**N-EtFOSAA**



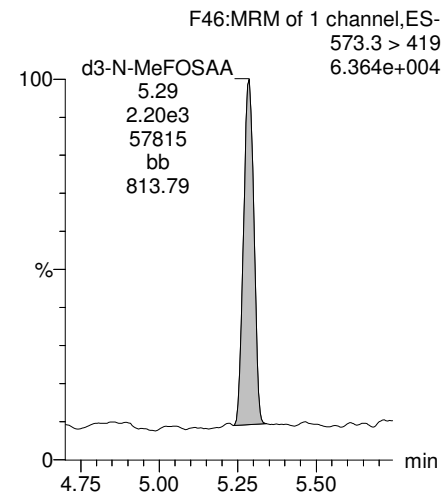
**PFDoA**



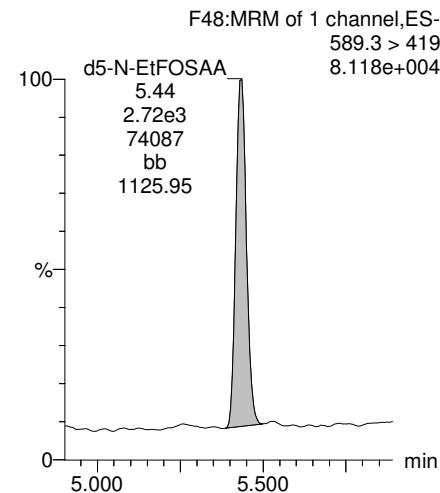
**13C2-PFUdA**



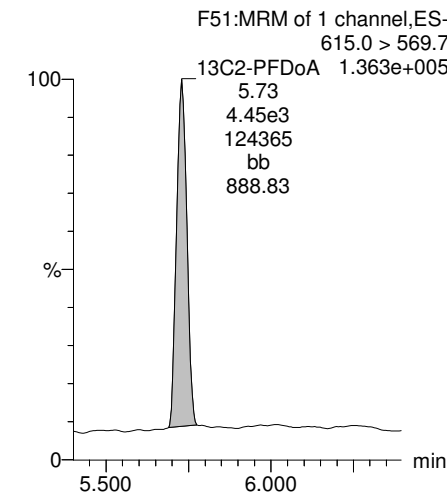
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDoA**

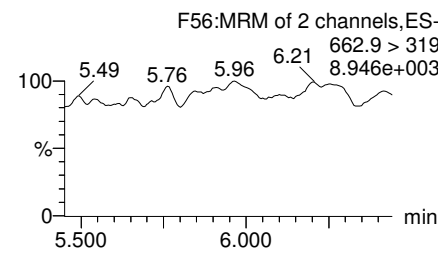
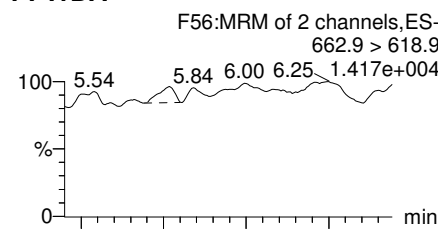


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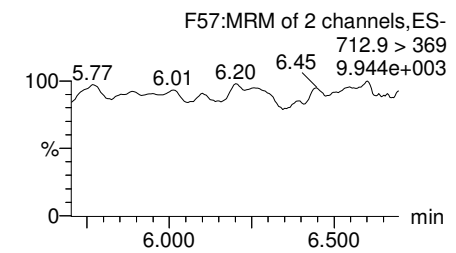
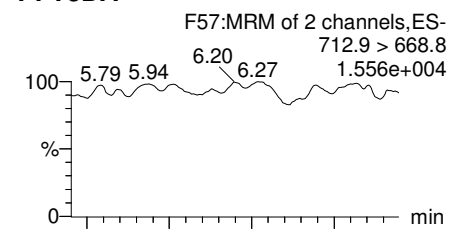
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Name: 171223M1\_70, Date: 24-Dec-2017, Time: 01:48:24, ID: 1701911-11 WI-A06-EB05-120717 0.12078, Description: WI-A06-EB05-120717

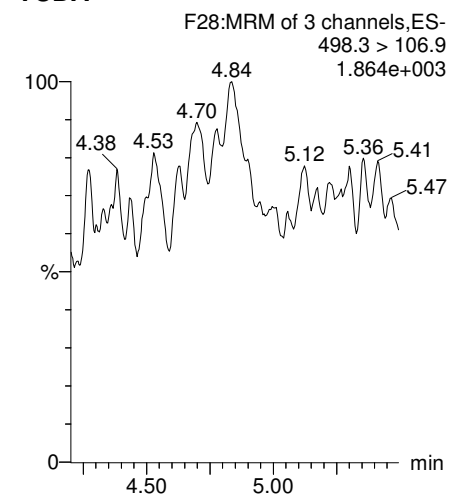
**PFTrDA**



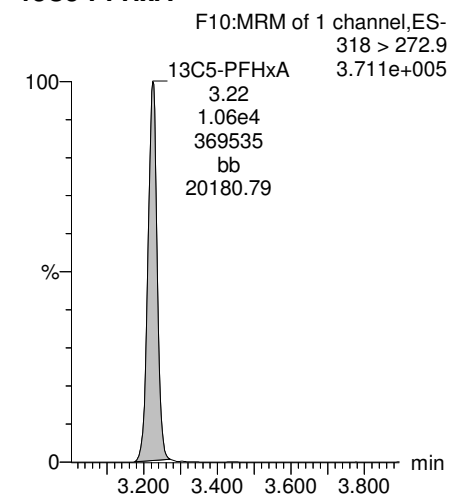
**PFTeDA**



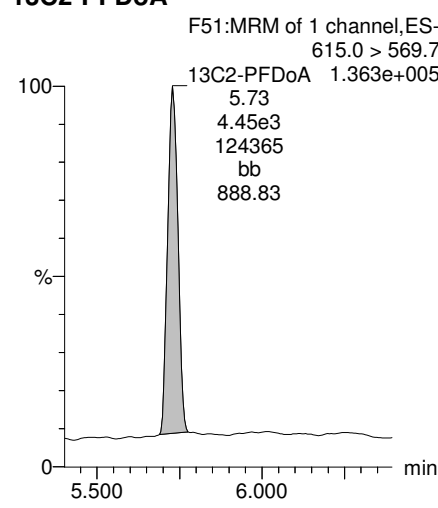
**TCDA**



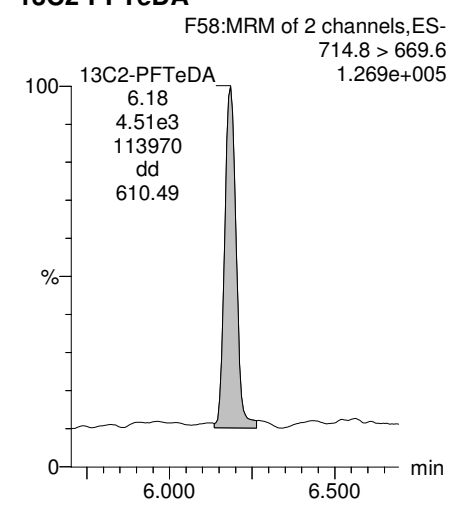
**13C5-PFHxA**



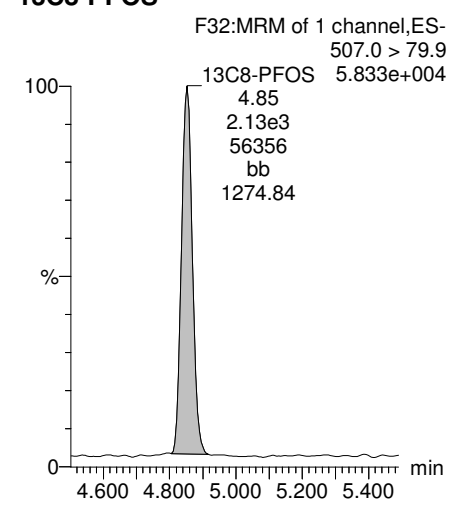
**13C2-PFDoA**



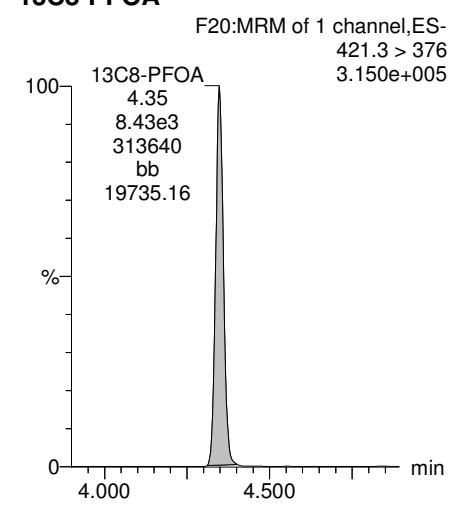
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**

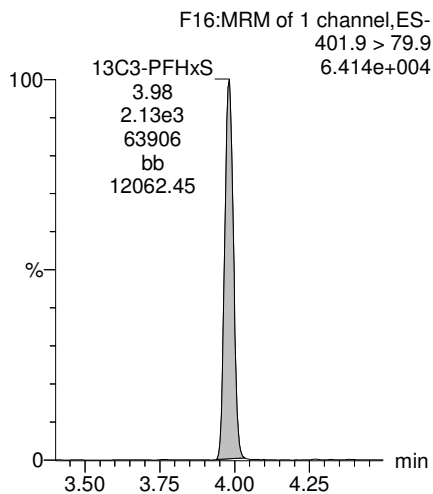


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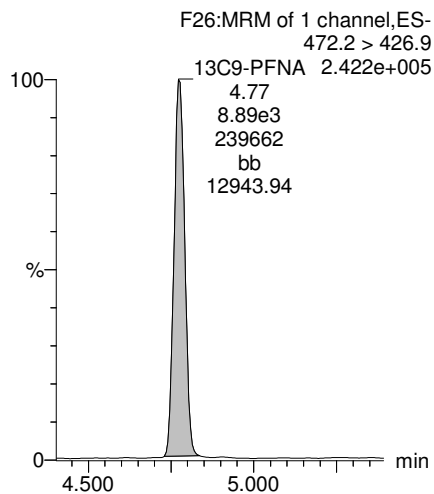
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Name: 171223M1\_70, Date: 24-Dec-2017, Time: 01:48:24, ID: 1701911-11 WI-A06-EB05-120717 0.12078, Description: WI-A06-EB05-120717

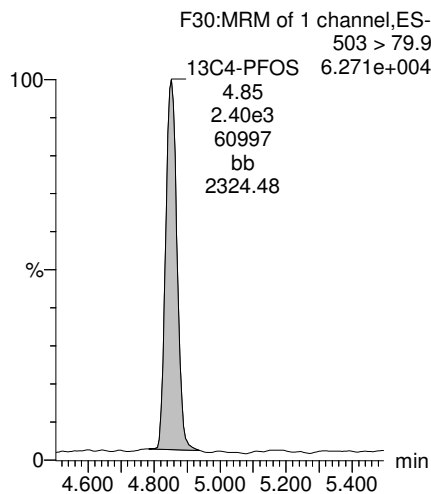
13C3-PFHxS



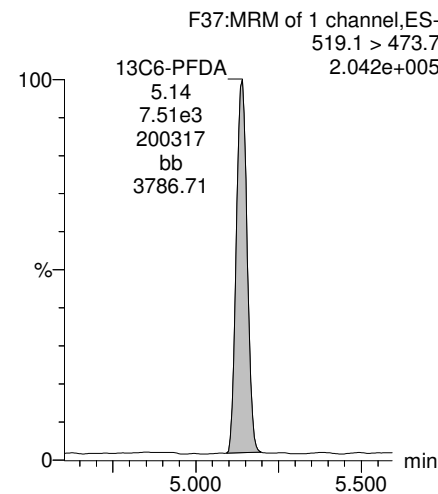
13C9-PFNA



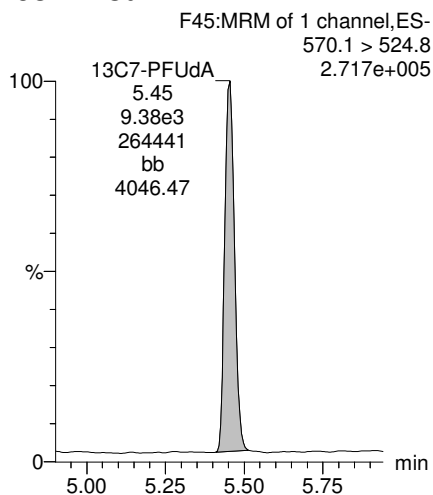
13C4-PFOS



13C6-PFDA



13C7-PFUdA





Dataset: U:\Q4.PRO\results\171223M1\171223M1-71.qld

Last Altered: Thursday, December 28, 2017 08:49:06 Pacific Standard Time

Printed: Thursday, December 28, 2017 08:49:58 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\_71, Date: 24-Dec-2017, Time: 01:59:34, ID: 1701911-13 WI-A06-FB01-120717 0.11922, Description: WI-A06-FB01-120717

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		1.08e3	0.119		2.70				
2	4 PFHxA	313.2 > 268.9		2.69e3	0.119		3.20				
3	5 PFHpA	363.0 > 318.9		5.78e3	0.119		3.80				
4	6 L-PFHxS	398.9 > 79.6		8.31e2	0.119		3.95				
5	9 L-PFOA	413 > 368.7	1.46e2	8.45e3	0.119		4.32	4.35	0.217	0.240	
6	12 PFNA	463.0 > 418.8		6.38e3	0.119		4.75				
7	14 L-PFOS	499 > 79.9		1.96e3	0.119		4.83				
8	16 PFDA	513 > 468.8		6.34e3	0.119		5.11				
9	18 N-MeFOSAA	570.1 > 419		2.52e3	0.119		5.26				
10	19 N-EtFOSAA	584.2 > 419		3.22e3	0.119		5.42				
11	20 PFUdA	563.0 > 518.9		7.00e3	0.119		5.43				
12	22 PFDoA	612.9 > 569.0		4.17e3	0.119		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-71.qld

Last Altered: Thursday, December 28, 2017 08:49:06 Pacific Standard Time

Printed: Thursday, December 28, 2017 08:50:56 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\_71, Date: 24-Dec-2017, Time: 01:59:34, ID: 1701911-13 WI-A06-FB01-120717 0.11922, Description: WI-A06-FB01-120717

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.17e3	0.119		5.95				
2	25 PFTeDA	712.9 > 668.8		3.91e3	0.119		6.16				
3	33 13C3-PFBS	302. > 98.8	1.08e3	1.05e4	0.119	0.106	2.70	2.73	1.29	101.930	97.2
4	34 13C2-PFHxA	315 > 269.8	2.69e3	1.05e4	0.119	0.743	3.20	3.22	3.21	36.223	86.4
5	35 13C4-PFHpA	367.2 > 321.8	5.78e3	1.05e4	0.119	0.557	3.80	3.84	6.90	103.942	99.1
6	36 18O2-PFHxS	403.0 > 102.6	8.31e2	1.95e3	0.119	0.433	3.95	3.98	5.33	103.405	98.6
7	37 13C2-6:2 FTS	429.1 > 408.9	2.08e3	7.88e3	0.119	0.275	4.26	4.29	3.30	100.956	96.3
8	38 13C2-PFOA	414.9 > 369.7	8.45e3	7.88e3	0.119	1.141	4.32	4.34	13.4	98.490	93.9
9	39 13C5-PFNA	468.2 > 422.9	6.38e3	7.98e3	0.119	0.963	4.75	4.77	10.0	87.106	83.1
10	40 13C8-PFOA	506.1 > 77.7	8.52e2	6.80e3	0.119	0.373	4.81	4.83	1.57	35.161	33.5
11	41 13C8-PFOS	507.0 > 79.9	1.96e3	2.58e3	0.119	1.075	4.83	4.85	9.48	73.962	70.5
12	42 13C2-PFDA	515.1 > 469.9	6.34e3	7.21e3	0.119	1.213	5.11	5.13	11.0	75.999	72.5
13	43 13C2-8:2 FTS	529.1 > 508.7	9.47e2	1.05e4	0.119	0.109	5.09	5.11	1.13	86.729	82.7
14	44 d3-N-MeFOSAA	573.3 > 419	2.52e3	6.80e3	0.119	0.405	5.26	5.28	4.64	95.986	91.5
15	45 d5-N-EtFOSAA	589.3 > 419	3.22e3	6.80e3	0.119	0.490	5.42	5.43	5.92	101.307	96.6
16	46 13C2-PFUdA	565 > 519.8	7.00e3	6.80e3	0.119	1.154	5.43	5.45	12.9	93.490	89.2
17	47 13C2-PFDoA	615.0 > 569.7	4.17e3	6.80e3	0.119	0.623	5.70	5.73	7.67	103.343	98.6
18	49 13C2-PFTeDA	714.8 > 669.6	3.91e3	6.80e3	0.119	0.706	6.16	6.18	7.19	85.471	81.5
19	55 13C5-PFHxA	318 > 272.9	1.05e4	1.05e4	0.119	1.000	3.20	3.22	12.5	104.848	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.95e3	1.95e3	0.119	1.000	3.95	3.98	12.5	104.848	100.0
21	57 13C8-PFOA	421.3 > 376	7.88e3	7.88e3	0.119	1.000	4.32	4.34	12.5	104.848	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.98e3	7.98e3	0.119	1.000	4.75	4.77	12.5	104.848	100.0
23	59 13C4-PFOS	503 > 79.9	2.58e3	2.58e3	0.119	1.000	4.83	4.85	12.5	104.848	100.0
24	60 13C6-PFDA	519.1 > 473.7	7.21e3	7.21e3	0.119	1.000	5.11	5.14	12.5	104.848	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.80e3	6.80e3	0.119	1.000	5.43	5.45	12.5	104.848	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	8.31e2	0.119		4.00		0.000		
27	63 Total PFOA	413 > 368.7	1.46e2	8.45e3	0.119		4.30		0.217	0.240	
28	64 Total PFOS	499 > 79.9	0.00e0	1.96e3	0.119		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.52e3	0.119		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.22e3	0.119		5.40		0.000		

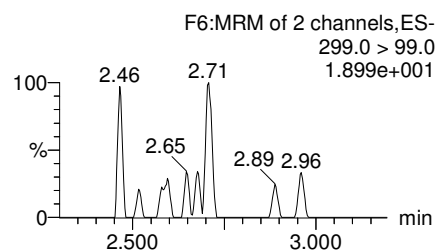
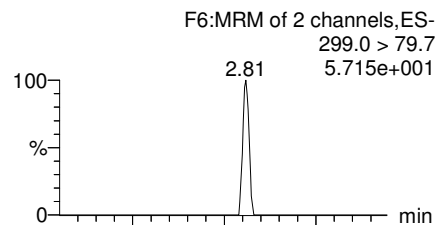
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Printed: Thursday, December 28, 2017 08:50:56 Pacific Standard Time

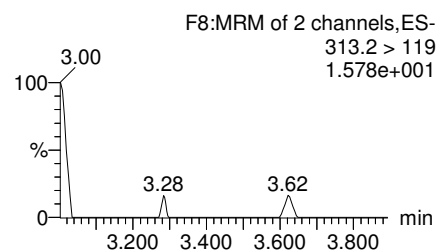
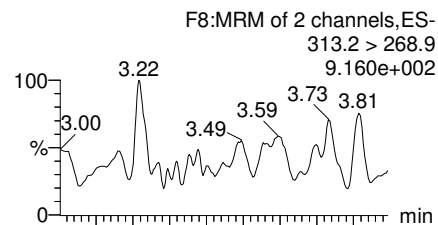
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Name: 171223M1\_71, Date: 24-Dec-2017, Time: 01:59:34, ID: 1701911-13 WI-A06-FB01-120717 0.11922, Description: WI-A06-FB01-120717

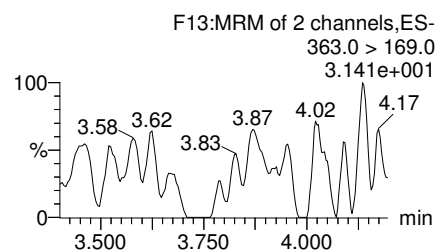
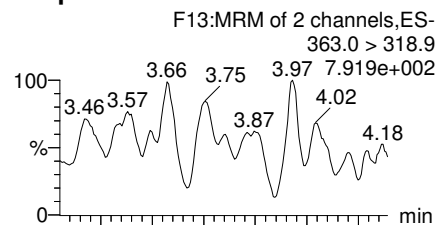
**PFBS**



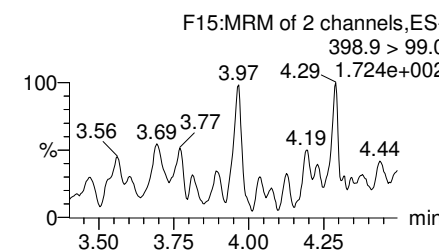
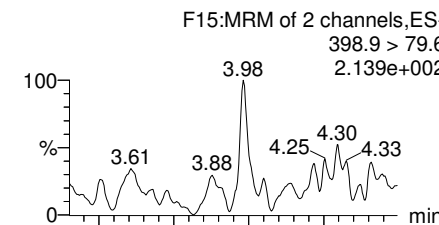
**PFHxA**



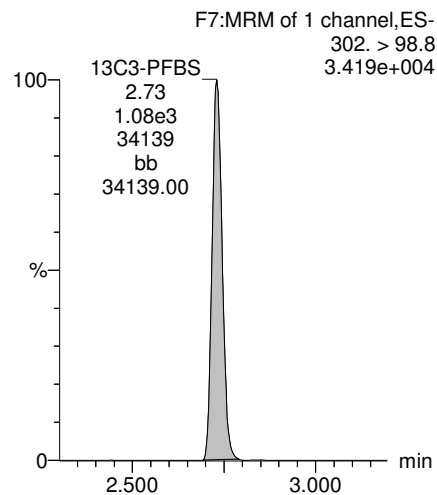
**PFHpA**



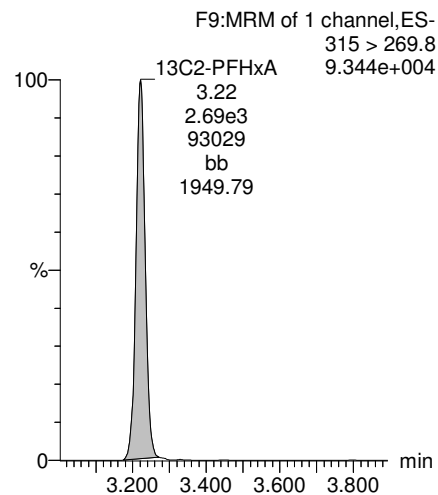
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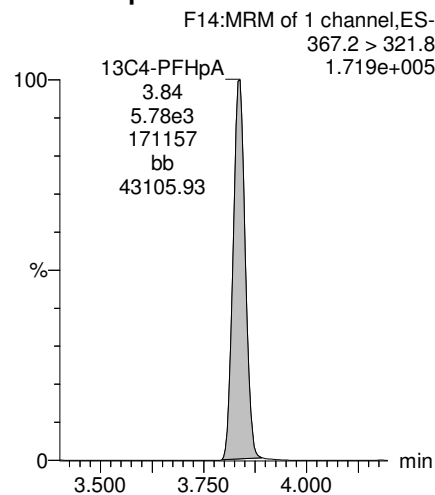
**13C3-PFBS**



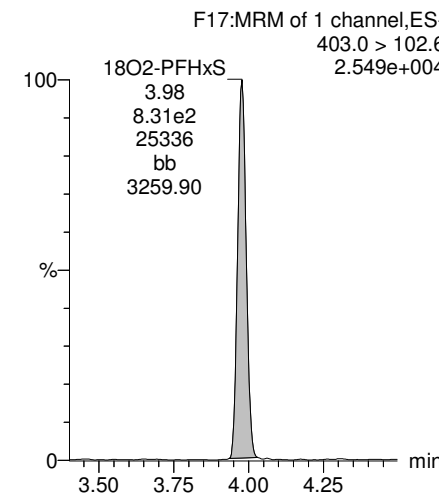
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

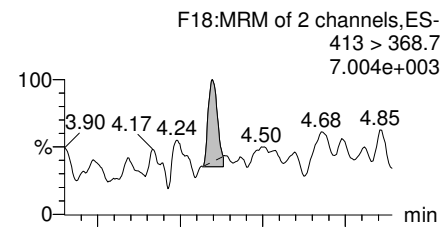


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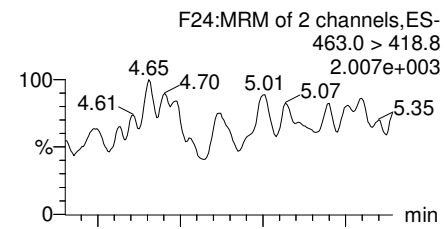
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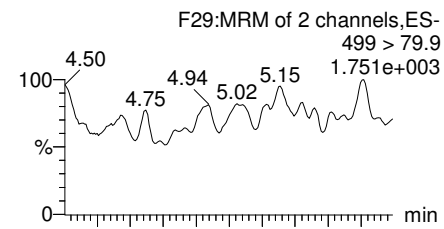
**Total PFOA**



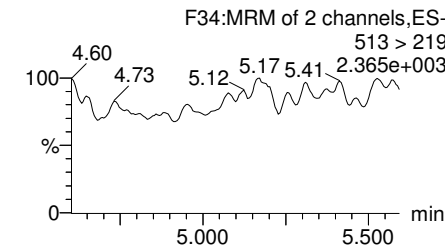
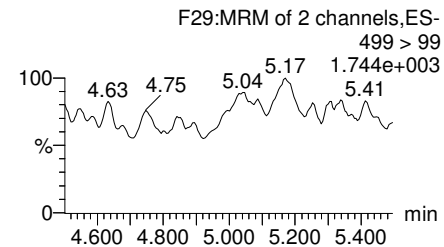
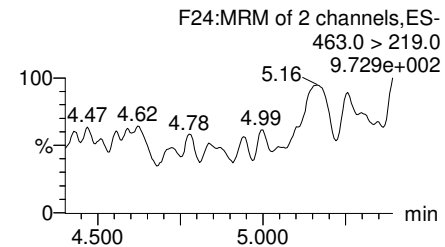
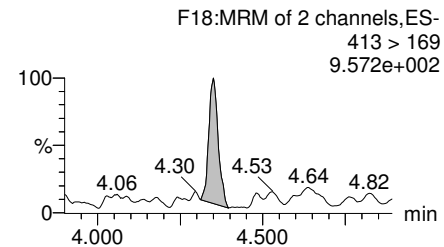
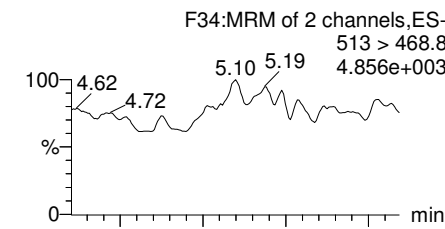
**PFNA**



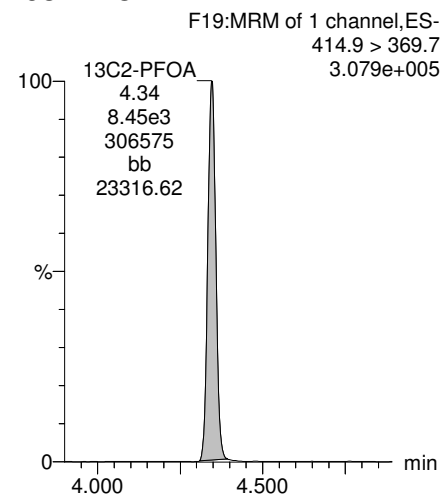
**Total PFOS**



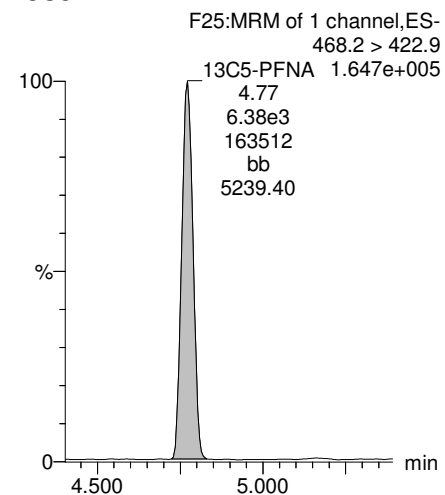
**PFDA**



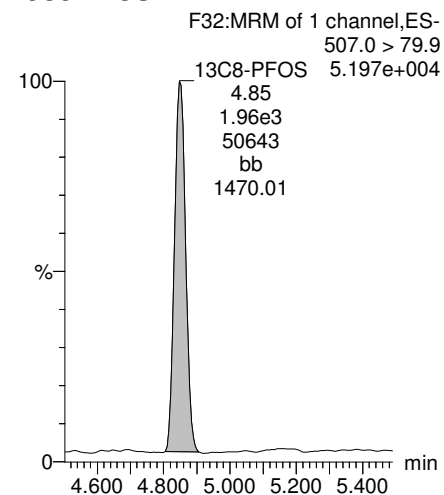
**13C2-PFOA**



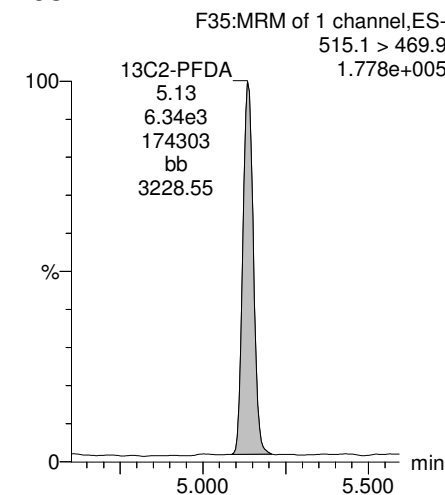
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

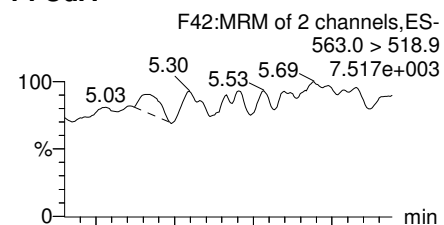


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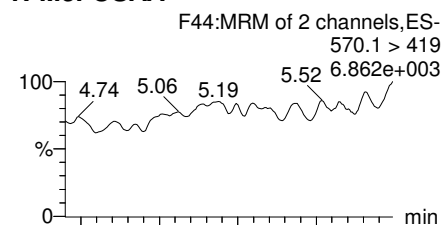
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Name: 171223M1\_71, Date: 24-Dec-2017, Time: 01:59:34, ID: 1701911-13 WI-A06-FB01-120717 0.11922, Description: WI-A06-FB01-120717

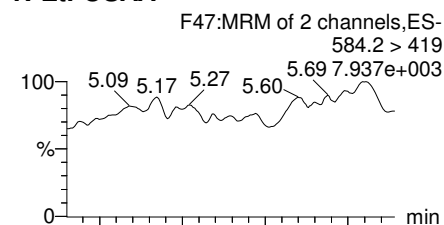
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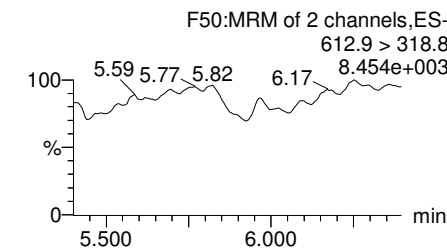
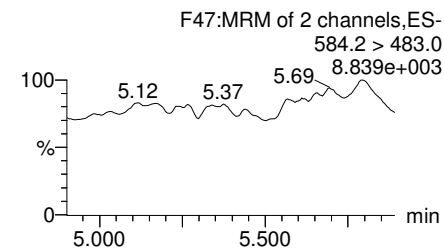
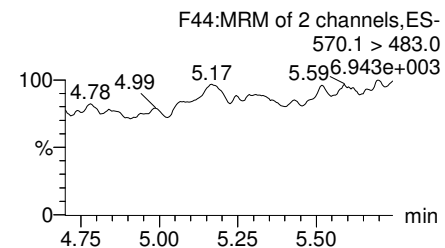
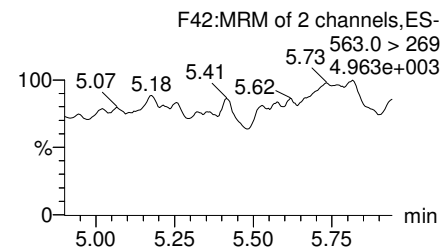
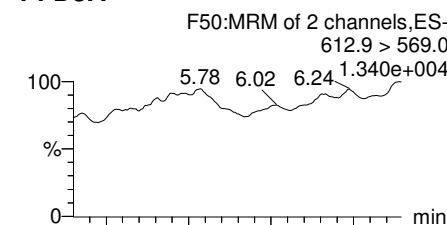
**N-MeFOSAA**



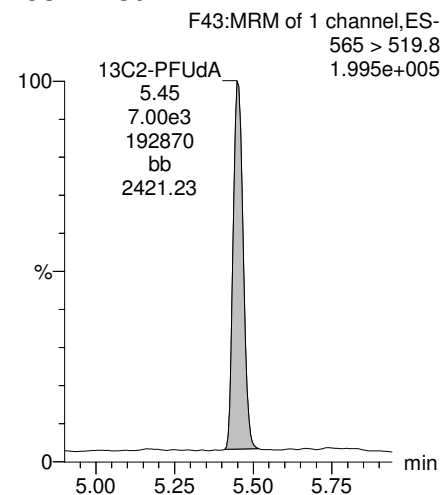
**N-EtFOSAA**



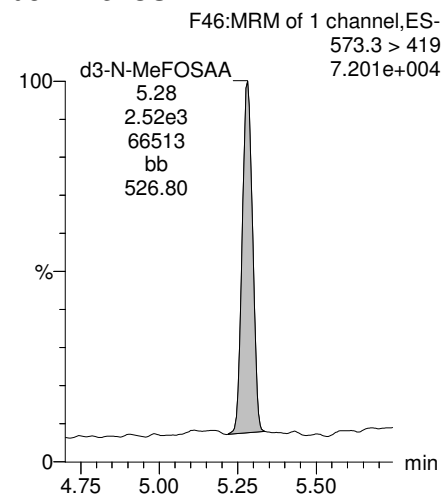
**PFDaA**



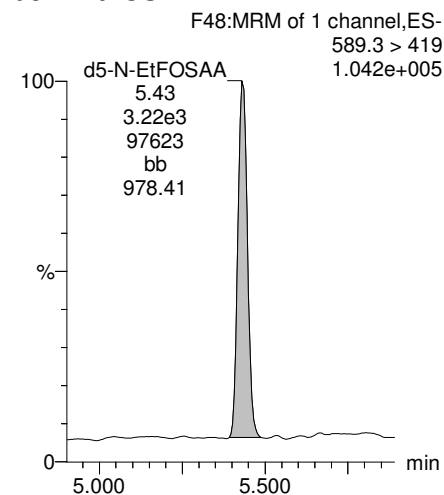
**13C2-PFUdA**



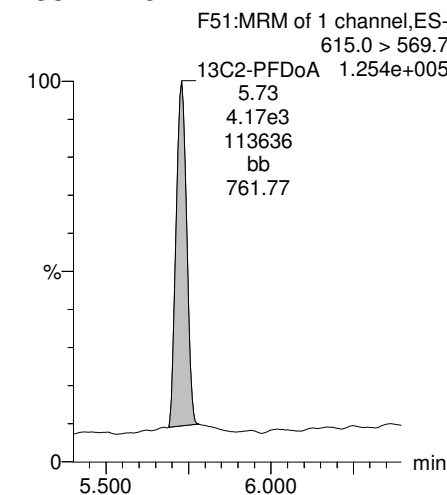
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDaA**

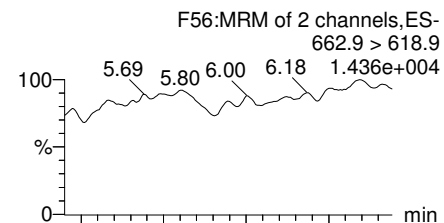


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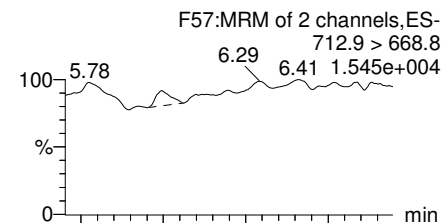
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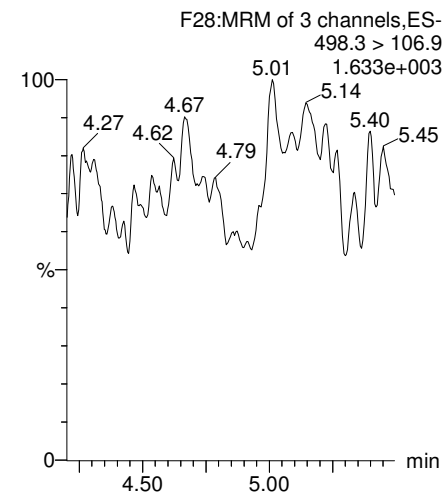
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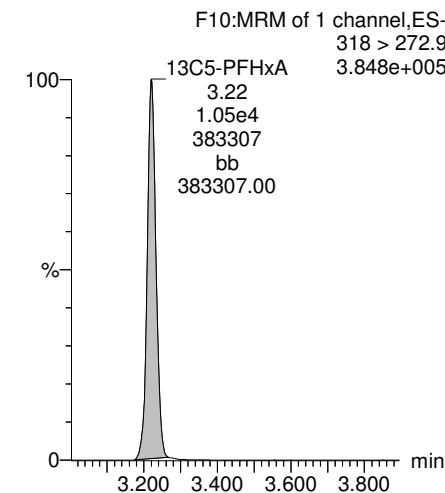
**PFTeDA**



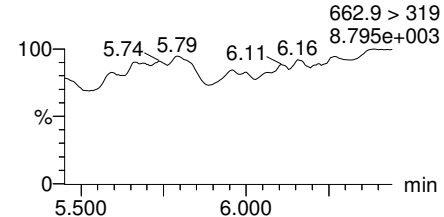
**TCDA**



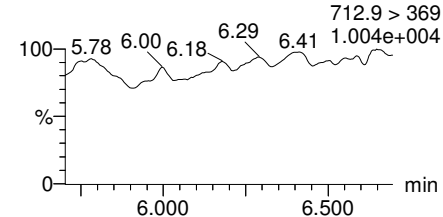
**13C5-PFHxA**



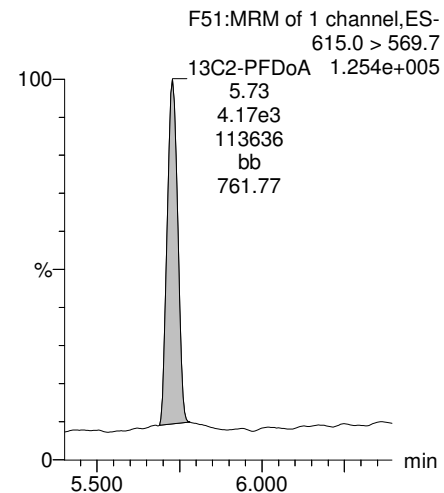
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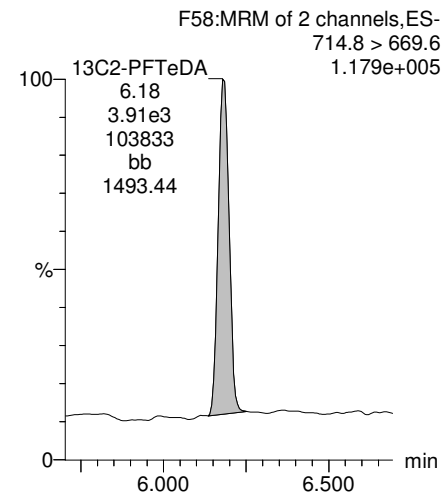
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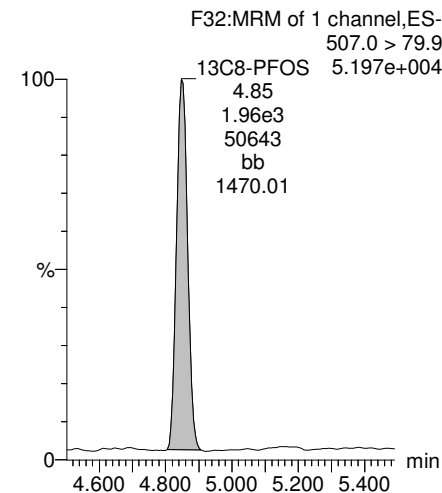
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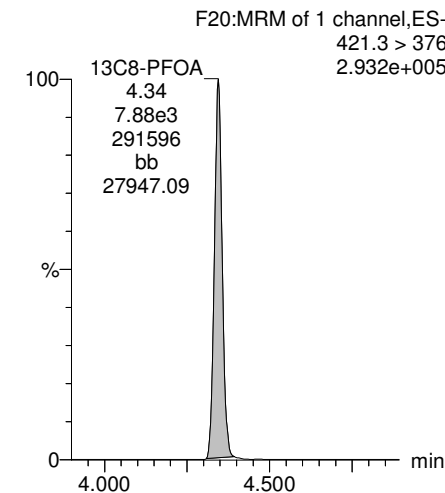
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**

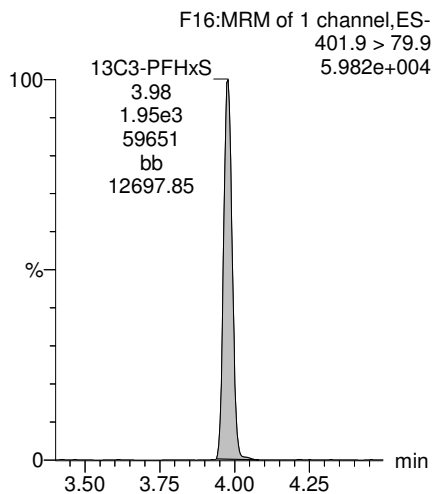


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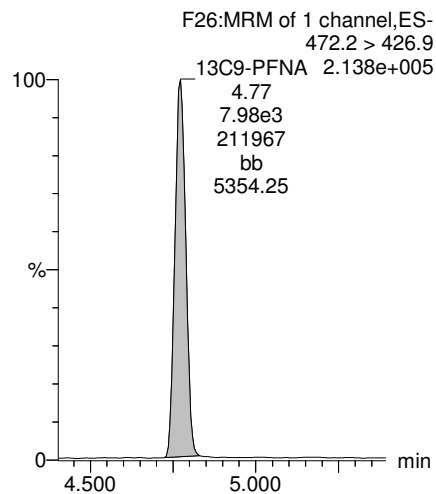
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Name: 171223M1\_71, Date: 24-Dec-2017, Time: 01:59:34, ID: 1701911-13 WI-A06-FB01-120717 0.11922, Description: WI-A06-FB01-120717

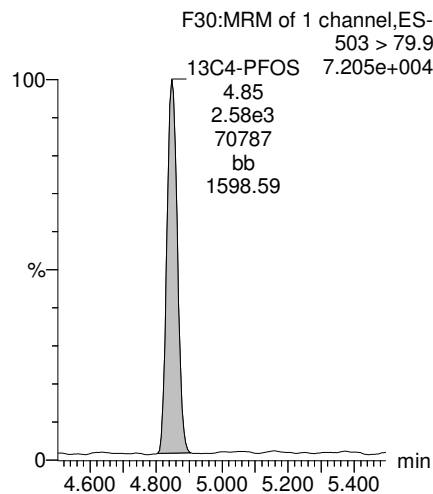
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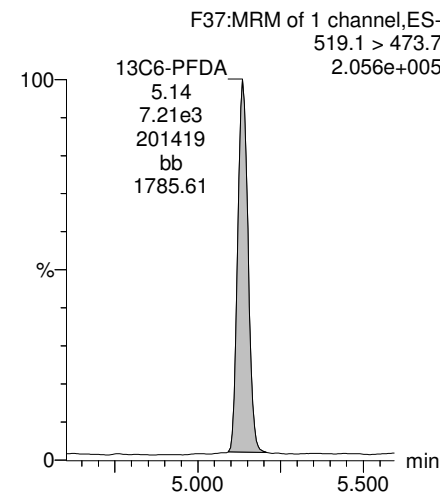
13C9-PFNA



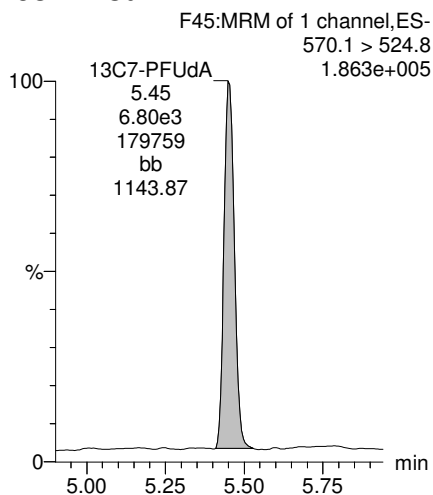
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-72.qld

Last Altered: Thursday, December 28, 2017 08:53:55 Pacific Standard Time

Printed: Thursday, December 28, 2017 08:54:32 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	4.16e1	1.09e3	0.112		2.70	2.73	0.477	2.296	
2	4 PFHxA	313.2 > 268.9	5.42e2	3.00e3	0.112		3.20	3.22	0.903	5.442	
3	5 PFHpA	363.0 > 318.9		5.55e3	0.112		3.80				
4	6 L-PFHxS	398.9 > 79.6	6.31e1	9.68e2	0.112		3.95	3.98	0.815	2.235	
5	9 L-PFOA	413 > 368.7	3.88e2	8.07e3	0.112		4.32	4.34	0.600	3.604	
6	12 PFNA	463.0 > 418.8		6.92e3	0.112		4.75				
7	14 L-PFOS	499 > 79.9		2.27e3	0.112		4.83				
8	16 PFDA	513 > 468.8		6.62e3	0.112		5.11				
9	18 N-MeFOSAA	570.1 > 419		2.57e3	0.112		5.26				
10	19 N-EtFOSAA	584.2 > 419		3.28e3	0.112		5.42				
11	20 PFUdA	563.0 > 518.9		8.51e3	0.112		5.43				
12	22 PFDoA	612.9 > 569.0		3.56e3	0.112		5.70				



Dataset: U:\Q4.PRO\results\171223M1\171223M1-72.qld

Last Altered: Thursday, December 28, 2017 08:53:55 Pacific Standard Time

Printed: Thursday, December 28, 2017 08:54:45 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.56e3	0.112		5.95				
2	25 PFTeDA	712.9 > 668.8		4.58e3	0.112		6.16				
3	33 13C3-PFBS	302. > 98.8	1.09e3	1.14e4	0.112	0.106	2.70	2.73	1.19	100.447	90.1
4	34 13C2-PFHxA	315 > 269.8	3.00e3	1.14e4	0.112	0.743	3.20	3.22	3.28	39.363	88.3
5	35 13C4-PFHpA	367.2 > 321.8	5.55e3	1.14e4	0.112	0.557	3.80	3.83	6.07	97.196	87.2
6	36 18O2-PFHxS	403.0 > 102.6	9.68e2	2.54e3	0.112	0.433	3.95	3.98	4.77	98.268	88.1
7	37 13C2-6:2 FTS	429.1 > 408.9	1.73e3	7.93e3	0.112	0.275	4.26	4.29	2.73	88.765	79.6
8	38 13C2-PFOA	414.9 > 369.7	8.07e3	7.93e3	0.112	1.141	4.32	4.34	12.7	99.448	89.2
9	39 13C5-PFNA	468.2 > 422.9	6.92e3	9.03e3	0.112	0.963	4.75	4.77	9.58	88.740	79.6
10	40 13C8-PFOA	506.1 > 77.7	1.37e3	7.80e3	0.112	0.373	4.81	4.83	2.19	52.344	46.9
11	41 13C8-PFOS	507.0 > 79.9	2.27e3	2.65e3	0.112	1.075	4.83	4.85	10.7	88.706	79.6
12	42 13C2-PFDA	515.1 > 469.9	6.62e3	6.97e3	0.112	1.213	5.11	5.14	11.9	87.291	78.3
13	43 13C2-8:2 FTS	529.1 > 508.7	1.14e3	1.14e4	0.112	0.109	5.09	5.11	1.25	101.602	91.1
14	44 d3-N-MeFOSAA	573.3 > 419	2.57e3	7.80e3	0.112	0.405	5.26	5.28	4.11	90.497	81.2
15	45 d5-N-EtFOSAA	589.3 > 419	3.28e3	7.80e3	0.112	0.490	5.42	5.44	5.26	95.723	85.9
16	46 13C2-PFUdA	565 > 519.8	8.51e3	7.80e3	0.112	1.154	5.43	5.45	13.6	105.354	94.5
17	47 13C2-PFDoA	615.0 > 569.7	3.56e3	7.80e3	0.112	0.623	5.70	5.73	5.70	81.739	73.3
18	49 13C2-PFTeDA	714.8 > 669.6	4.58e3	7.80e3	0.112	0.706	6.16	6.18	7.35	92.839	83.3
19	55 13C5-PFHxA	318 > 272.9	1.14e4	1.14e4	0.112	1.000	3.20	3.22	12.5	111.498	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.54e3	2.54e3	0.112	1.000	3.95	3.98	12.5	111.498	100.0
21	57 13C8-PFOA	421.3 > 376	7.93e3	7.93e3	0.112	1.000	4.32	4.34	12.5	111.498	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.03e3	9.03e3	0.112	1.000	4.75	4.77	12.5	111.498	100.0
23	59 13C4-PFOS	503 > 79.9	2.65e3	2.65e3	0.112	1.000	4.83	4.85	12.5	111.498	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.97e3	6.97e3	0.112	1.000	5.11	5.14	12.5	111.498	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.80e3	7.80e3	0.112	1.000	5.43	5.45	12.5	111.498	100.0
26	62 Total PFHxS	398.9 > 79.6	6.31e1	9.68e2	0.112		4.00		0.815	2.235	
27	63 Total PFOA	413 > 368.7	3.88e2	8.07e3	0.112		4.30		0.600	3.604	
28	64 Total PFOS	499 > 79.9	0.00e0	2.27e3	0.112		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.57e3	0.112		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.28e3	0.112		5.40		0.000		

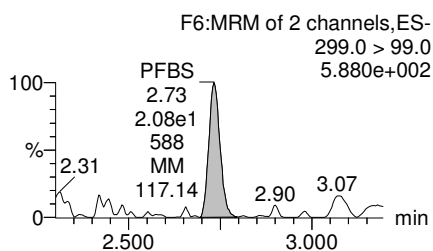
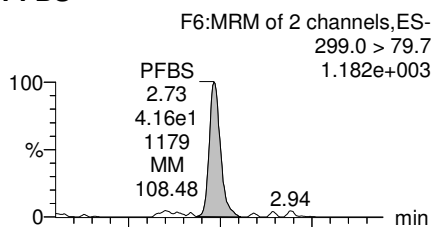
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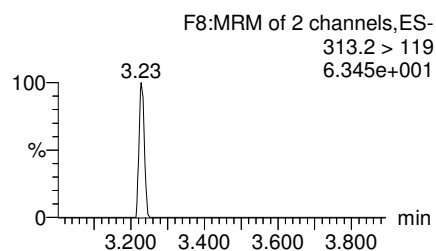
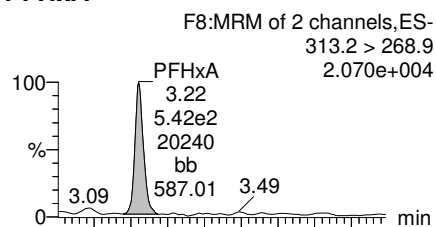
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Name: 171223M1\_72, Date: 24-Dec-2017, Time: 02:10:45, ID: 1701911-15 WI-A06-MW-10-1217 0.11211, Description: WI-A06-MW-10-1217

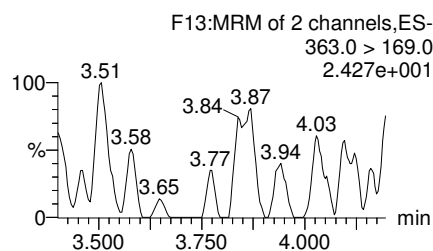
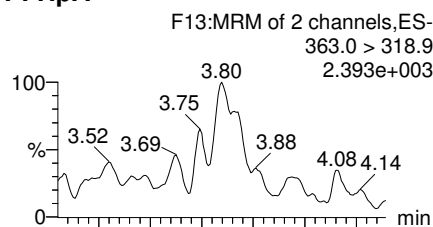
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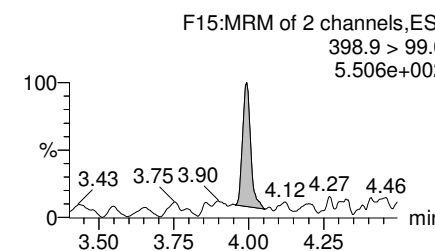
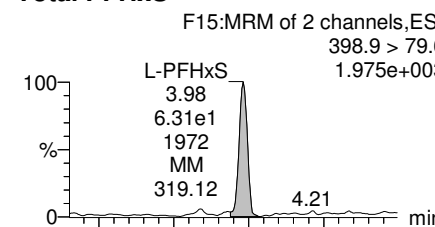
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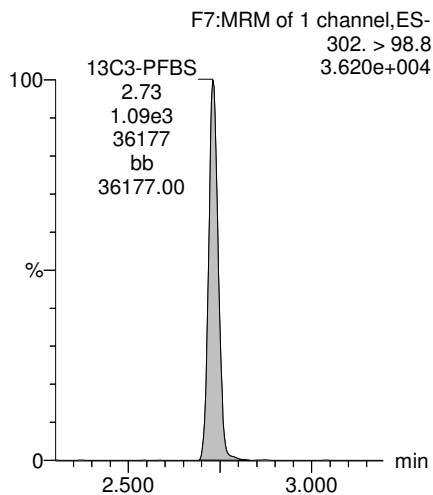
PFHpA



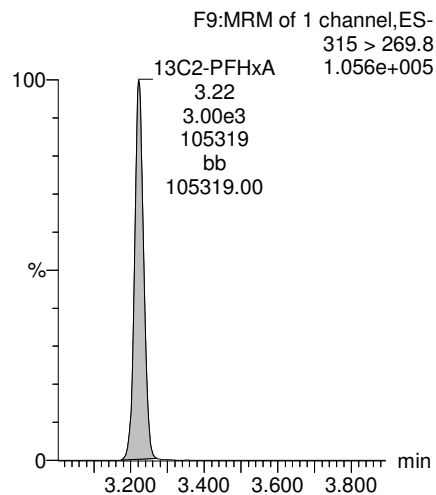
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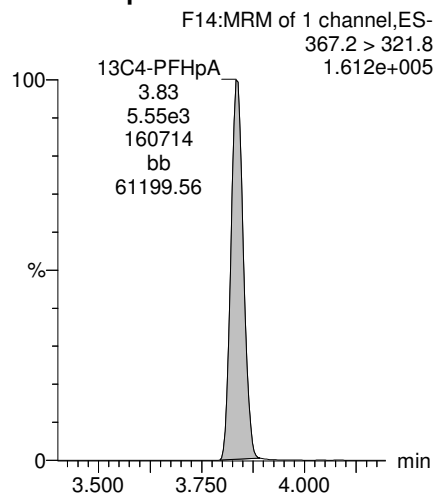
13C3-PFBS



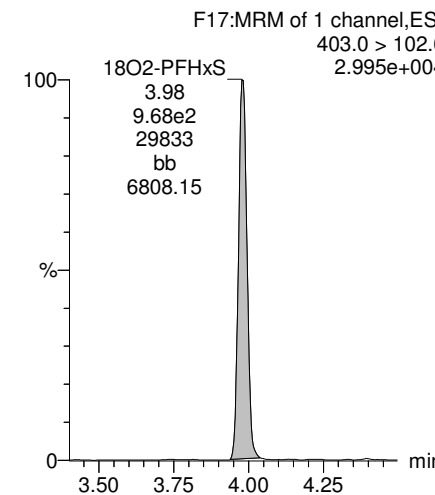
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

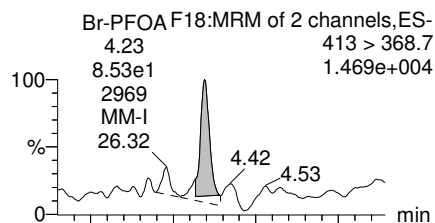


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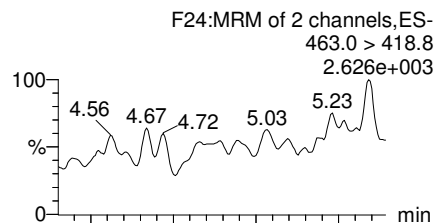
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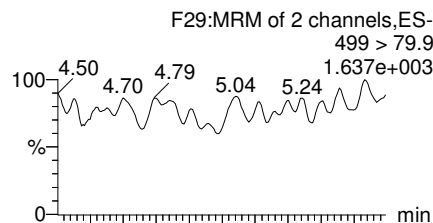
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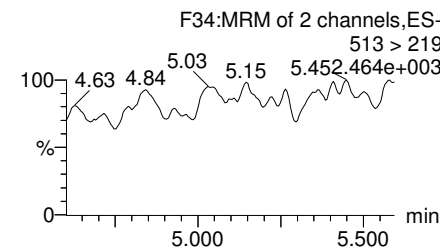
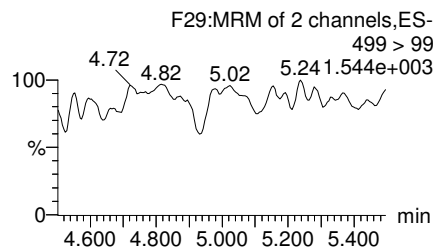
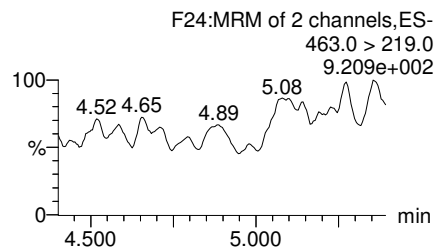
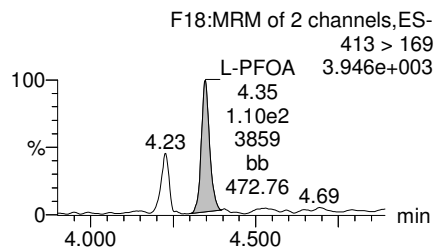
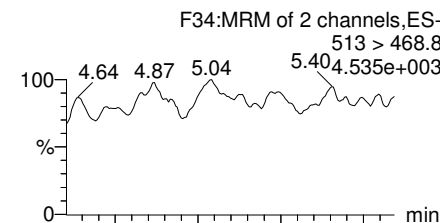
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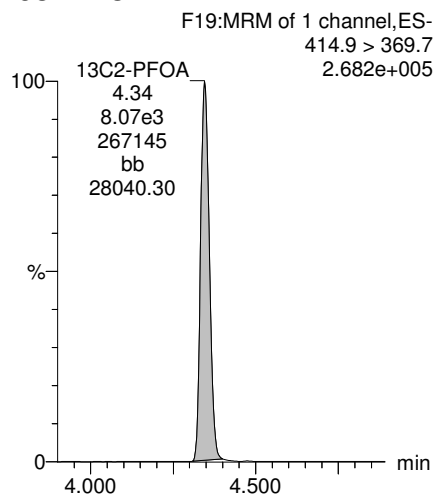
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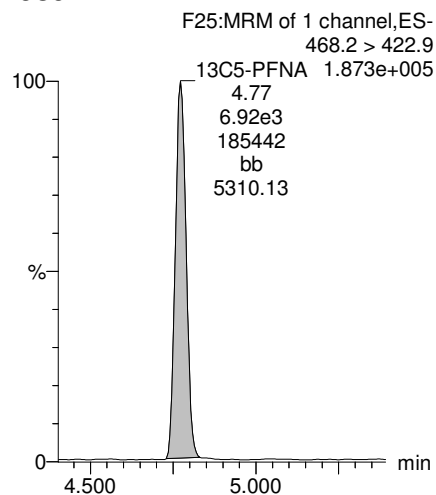
**PFDA**



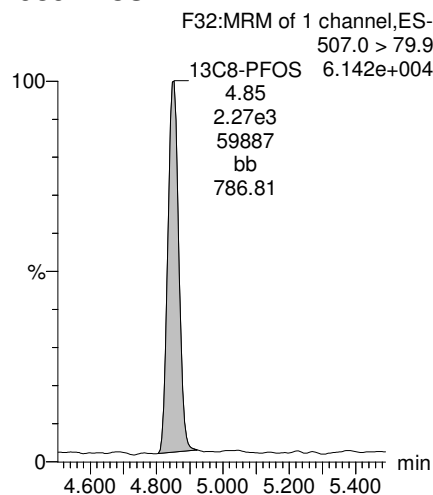
**13C2-PFOA**



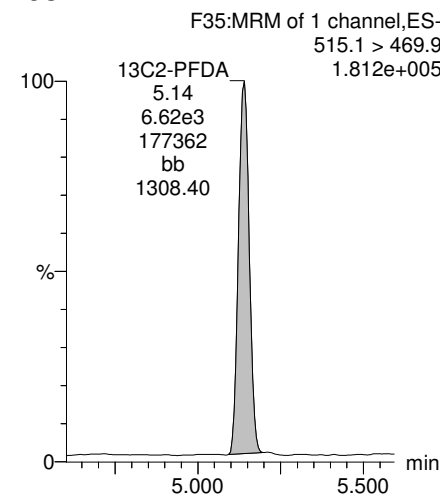
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

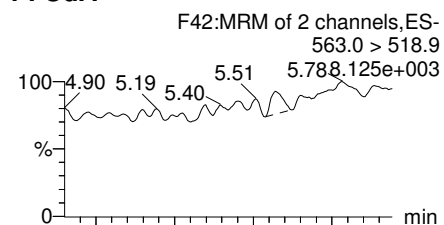


Dataset: U:\Q4.PRO\results\171223M1\171223M1-72.qld

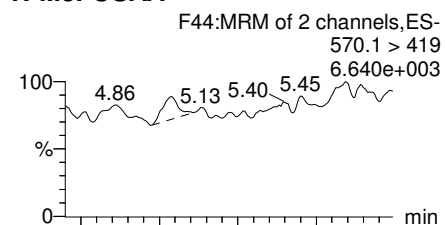
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Printed: Thursday, December 28, 2017 08:54:45 Pacific Standard Time

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

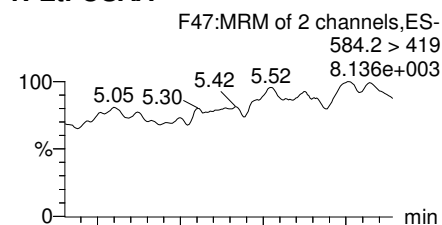
**PFUdA**



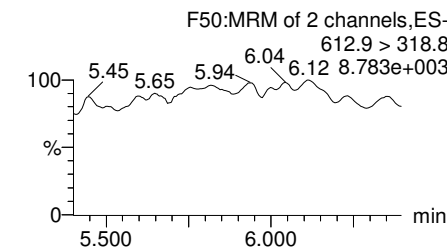
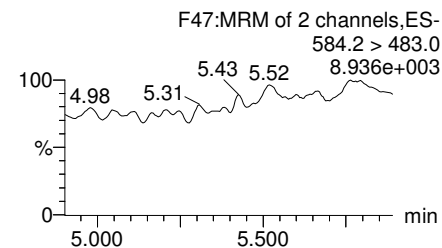
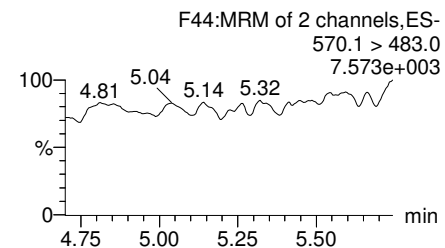
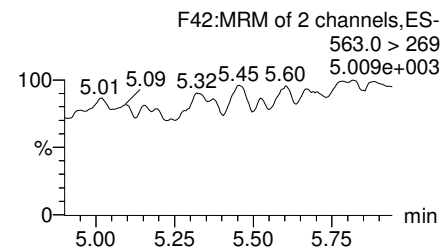
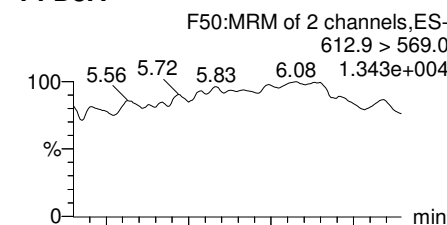
**N-MeFOSAA**



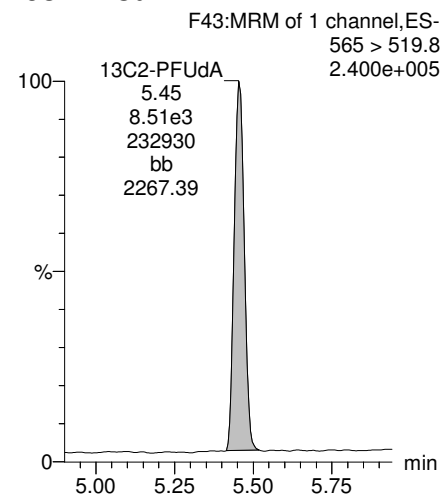
**N-EtFOSAA**



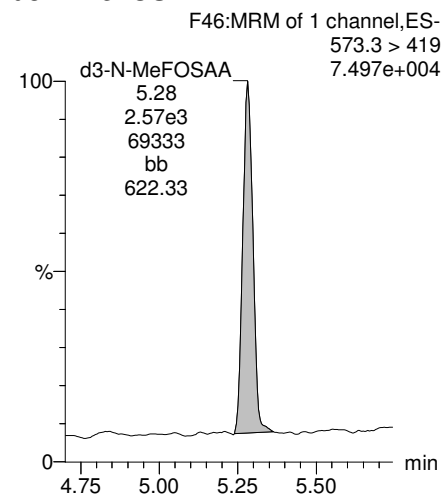
**PFDoA**



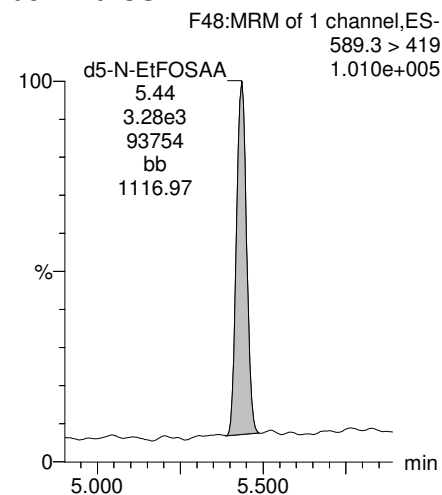
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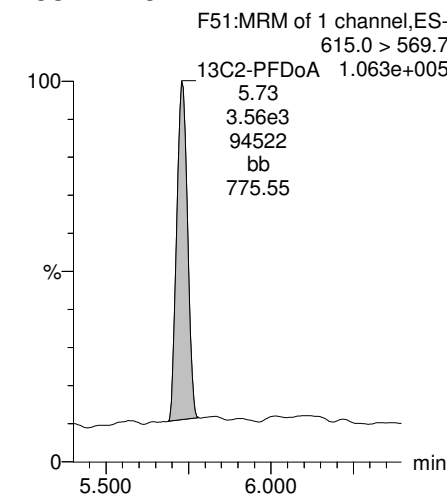
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



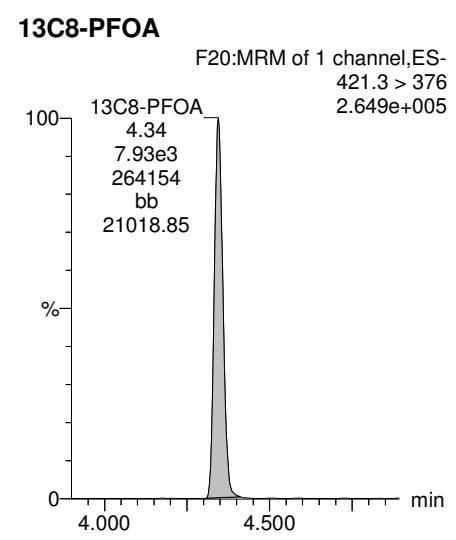
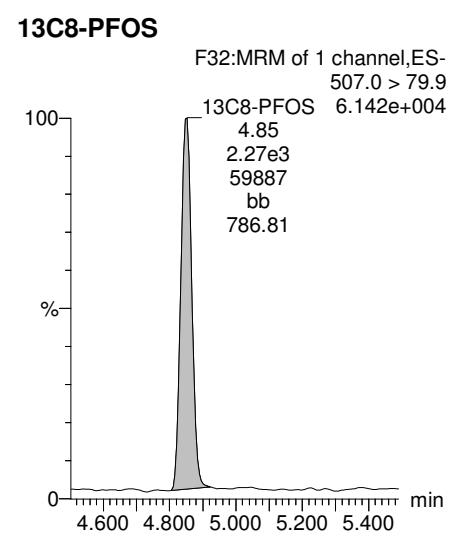
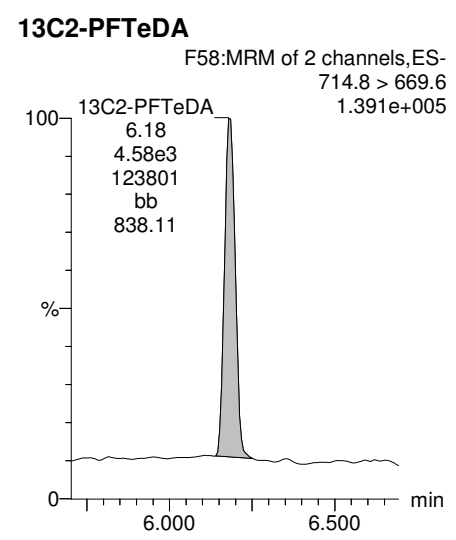
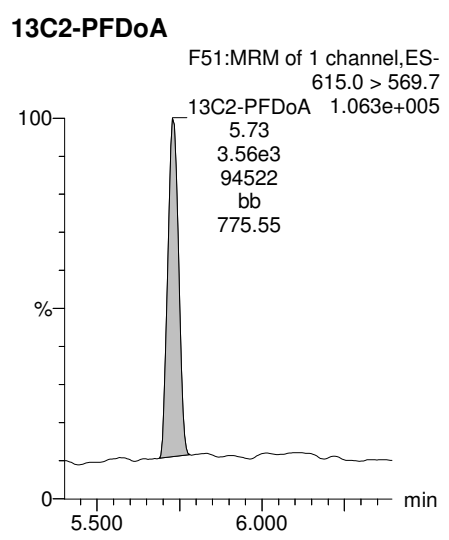
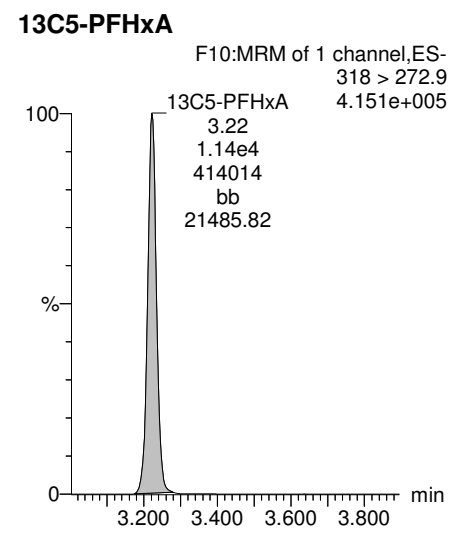
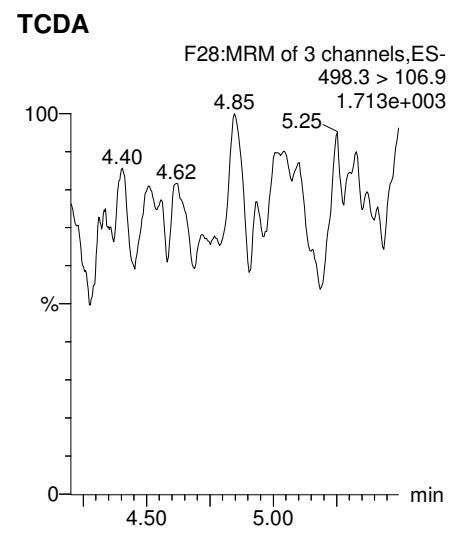
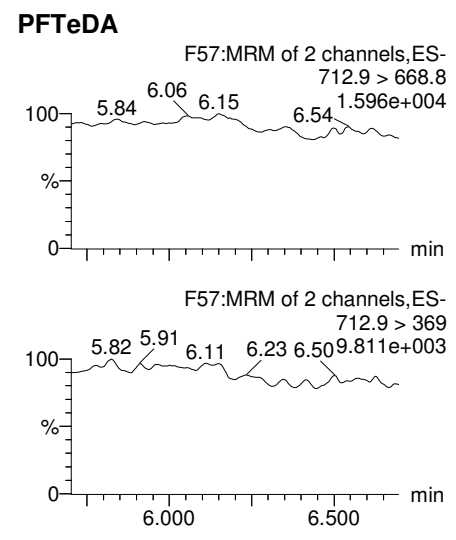
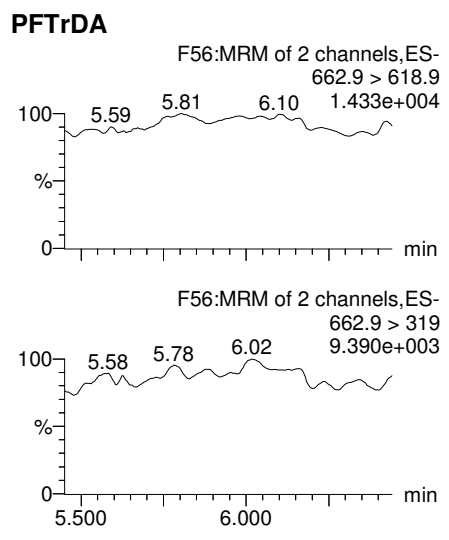
**13C2-PFDoA**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-72.qld

Last Altered: Thursday, December 28, 2017 08:53:55 Pacific Standard Time  
Printed: Thursday, December 28, 2017 08:54:45 Pacific Standard Time

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

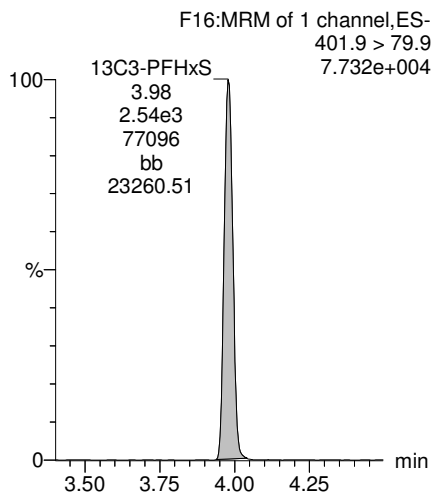


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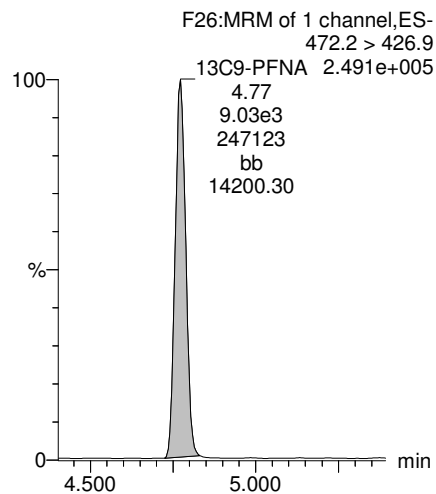
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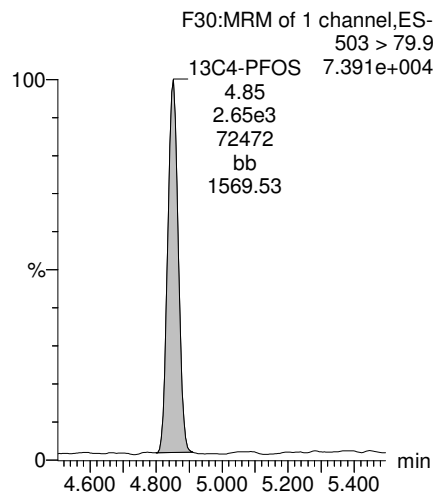
13C3-PFHxS



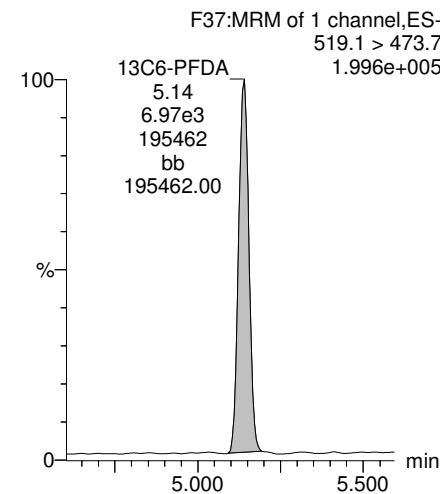
13C9-PFNA



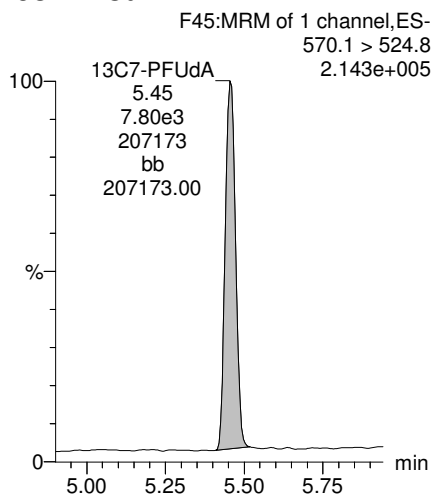
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-73.qld

Last Altered: Thursday, December 28, 2017 09:12:05 Pacific Standard Time  
Printed: Thursday, December 28, 2017 09:12:28 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.24e2	1.09e3	0.119		2.70	2.73	2.56	10.233	
2	4	PFHxA	313.2 > 268.9	2.69e3	2.99e3	0.119		3.20	3.22	4.50	25.628	
3	5	PFHpA	363.0 > 318.9	2.43e2	5.97e3	0.119		3.80	3.84	0.510	3.609	
4	6	L-PFHxS	398.9 > 79.6	2.38e2	9.32e2	0.119		3.95	3.98	3.19	13.779	
5	9	L-PFOA	413 > 368.7	1.36e3	8.50e3	0.119		4.32	4.35	2.00	14.960	
6	12	PFNA	463.0 > 418.8		6.50e3	0.119		4.75				
7	14	L-PFOS	499 > 79.9		1.97e3	0.119		4.83				
8	16	PFDA	513 > 468.8		5.84e3	0.119		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.59e3	0.119		5.26				
10	19	N-EtFOSAA	584.2 > 419		3.52e3	0.119		5.42				
11	20	PFUDa	563.0 > 518.9		6.70e3	0.119		5.43				
12	22	PFDoA	612.9 > 569.0		4.83e3	0.119		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-73.qld

Last Altered: Thursday, December 28, 2017 09:12:05 Pacific Standard Time

Printed: Thursday, December 28, 2017 09:13:04 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.83e3	0.119		5.95				
2	25 PFTeDA	712.9 > 668.8		4.90e3	0.119		6.16				
3	33 13C3-PFBS	302. > 98.8	1.09e3	1.14e4	0.119	0.106	2.70	2.73	1.20	94.910	90.3
4	34 13C2-PFHxA	315 > 269.8	2.99e3	1.14e4	0.119	0.743	3.20	3.22	3.27	36.999	88.0
5	35 13C4-PFHpA	367.2 > 321.8	5.97e3	1.14e4	0.119	0.557	3.80	3.84	6.54	98.772	93.9
6	36 18O2-PFHxS	403.0 > 102.6	9.32e2	2.10e3	0.119	0.433	3.95	3.98	5.56	108.129	102.8
7	37 13C2-6:2 FTS	429.1 > 408.9	2.08e3	6.72e3	0.119	0.275	4.26	4.29	3.87	118.415	112.6
8	38 13C2-PFOA	414.9 > 369.7	8.50e3	6.72e3	0.119	1.141	4.32	4.35	15.8	116.553	110.8
9	39 13C5-PFNA	468.2 > 422.9	6.50e3	7.81e3	0.119	0.963	4.75	4.78	10.4	90.924	86.5
10	40 13C8-PFOSA	506.1 > 77.7	1.94e3	6.73e3	0.119	0.373	4.81	4.83	3.61	81.355	77.4
11	41 13C8-PFOS	507.0 > 79.9	1.97e3	2.42e3	0.119	1.075	4.83	4.85	10.2	79.824	75.9
12	42 13C2-PFDA	515.1 > 469.9	5.84e3	5.95e3	0.119	1.213	5.11	5.14	12.3	84.935	80.8
13	43 13C2-8:2 FTS	529.1 > 508.7	7.13e2	1.14e4	0.119	0.109	5.09	5.11	0.781	60.068	57.1
14	44 d3-N-MeFOSAA	573.3 > 419	2.59e3	6.73e3	0.119	0.405	5.26	5.29	4.81	99.824	94.9
15	45 d5-N-EtFOSAA	589.3 > 419	3.52e3	6.73e3	0.119	0.490	5.42	5.44	6.54	112.235	106.7
16	46 13C2-PFUdA	565 > 519.8	6.70e3	6.73e3	0.119	1.154	5.43	5.46	12.5	90.727	86.3
17	47 13C2-PFDoA	615.0 > 569.7	4.83e3	6.73e3	0.119	0.623	5.70	5.73	8.97	121.191	115.2
18	49 13C2-PFTeDA	714.8 > 669.6	4.90e3	6.73e3	0.119	0.706	6.16	6.18	9.11	108.558	103.2
19	55 13C5-PFHxA	318 > 272.9	1.14e4	1.14e4	0.119	1.000	3.20	3.22	12.5	105.157	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.10e3	2.10e3	0.119	1.000	3.95	3.98	12.5	105.157	100.0
21	57 13C8-PFOA	421.3 > 376	6.72e3	6.72e3	0.119	1.000	4.32	4.35	12.5	105.157	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.81e3	7.81e3	0.119	1.000	4.75	4.77	12.5	105.157	100.0
23	59 13C4-PFOS	503 > 79.9	2.42e3	2.42e3	0.119	1.000	4.83	4.85	12.5	105.157	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.95e3	5.95e3	0.119	1.000	5.11	5.14	12.5	105.157	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.73e3	6.73e3	0.119	1.000	5.43	5.45	12.5	105.157	100.0
26	62 Total PFHxS	398.9 > 79.6	2.38e2	9.32e2	0.119		4.00		3.19	13.779	
27	63 Total PFOA	413 > 368.7	1.87e3	8.50e3	0.119		4.30		2.75	19.562	
28	64 Total PFOS	499 > 79.9	0.00e0	1.97e3	0.119		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.59e3	0.119		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.52e3	0.119		5.40		0.000		



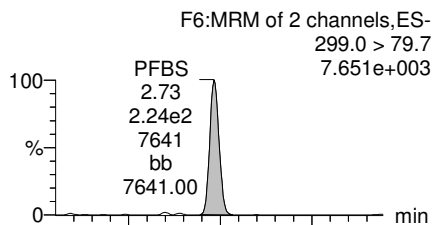
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Printed: Thursday, December 28, 2017 09:13:04 Pacific Standard Time

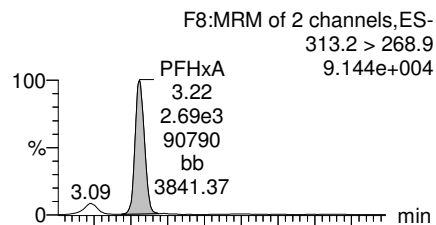
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Name: 171223M1\_73, Date: 24-Dec-2017, Time: 02:21:55, ID: 1701911-17 WI-A06-6-S-14-1217 0.11887, Description: WI-A06-6-S-14-1217

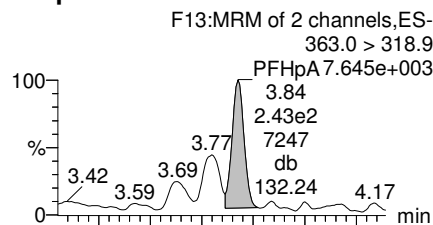
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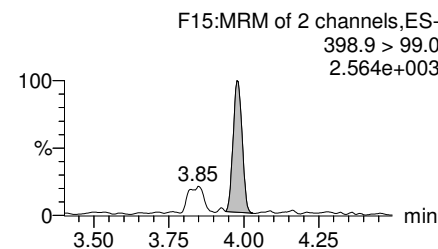
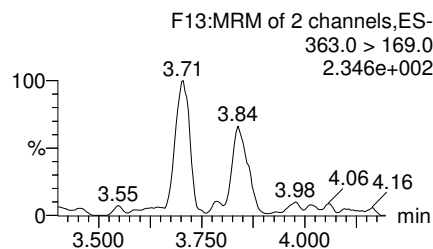
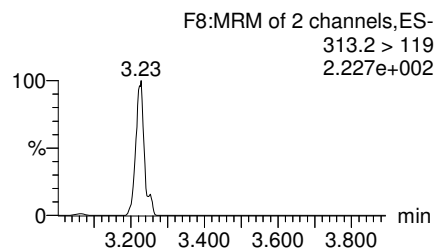
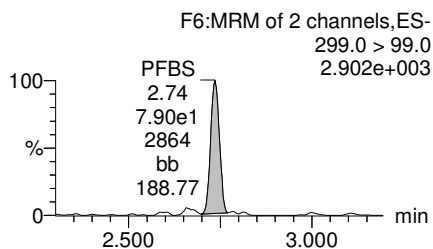
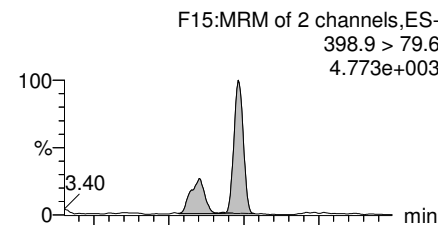
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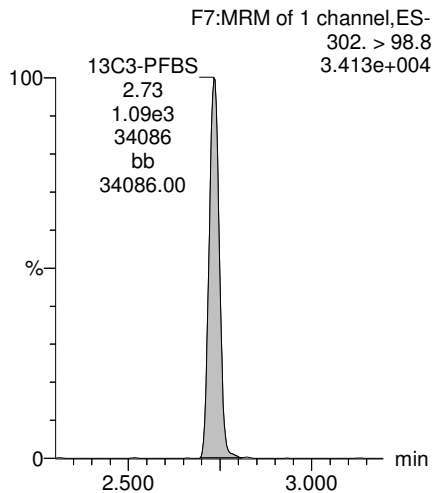
PFHpA



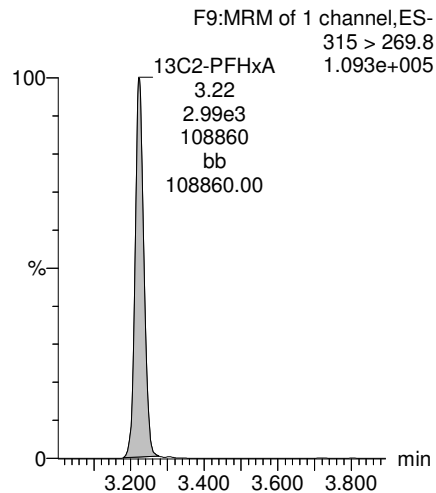
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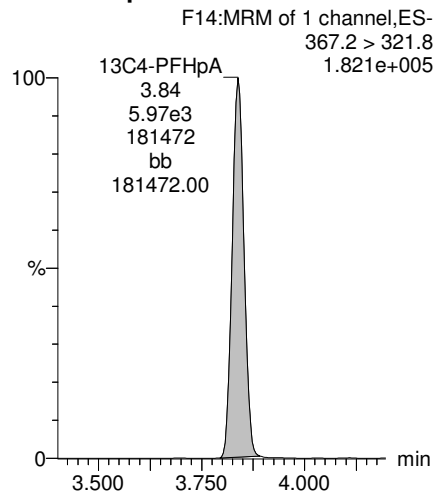
13C3-PFBS



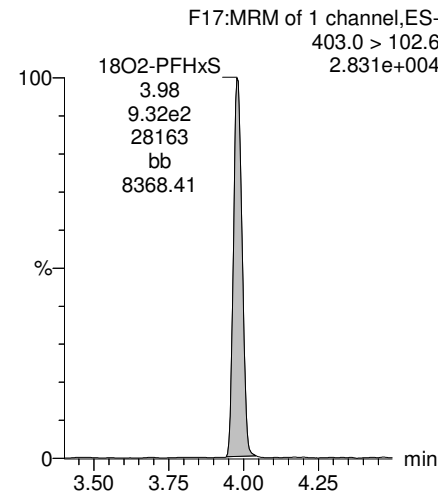
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

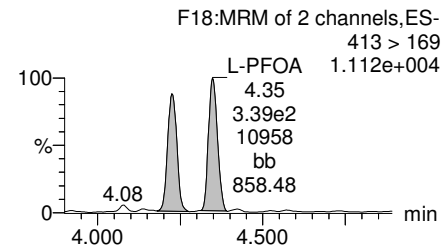
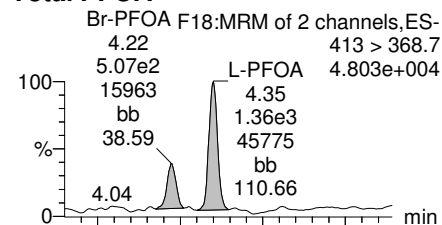


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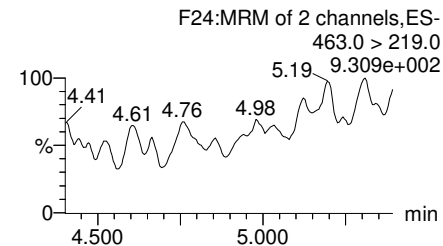
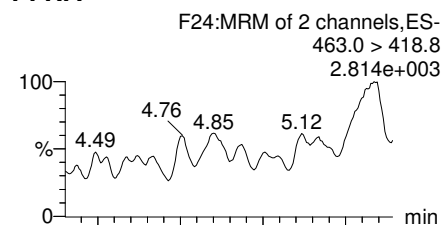
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Printed: Thursday, December 28, 2017 09:13:04 Pacific Standard Time

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

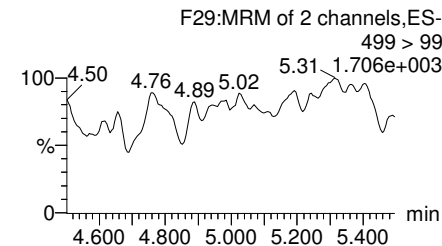
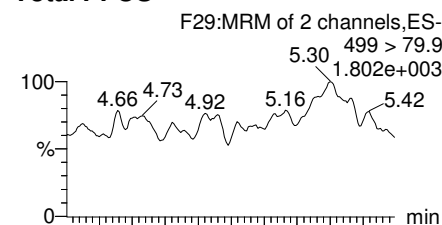
**Total PFOA**



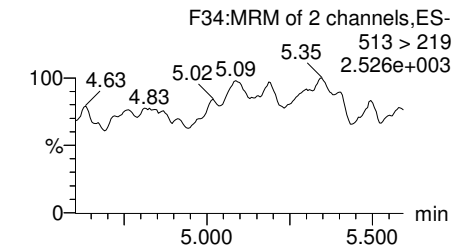
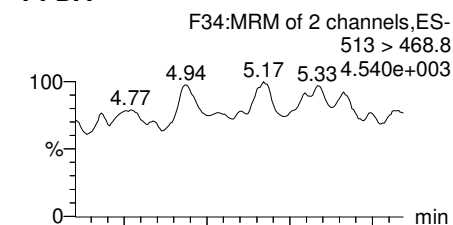
**PFNA**



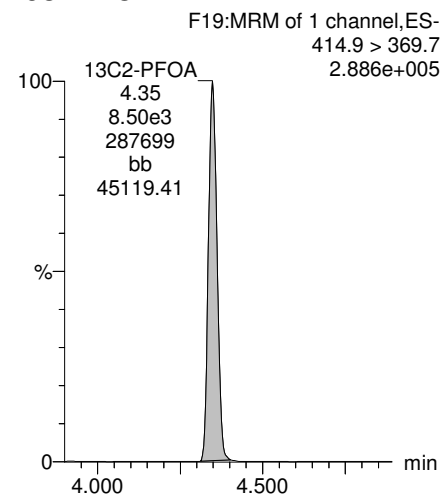
**Total PFOS**



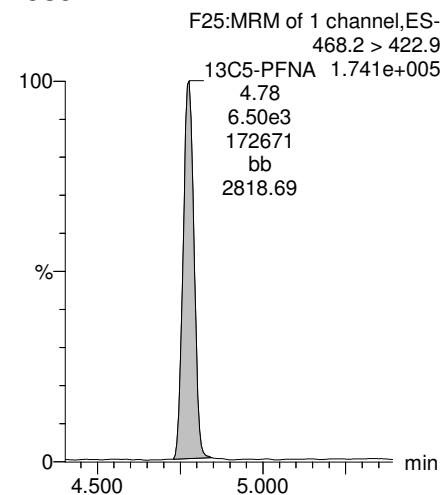
**PFDA**



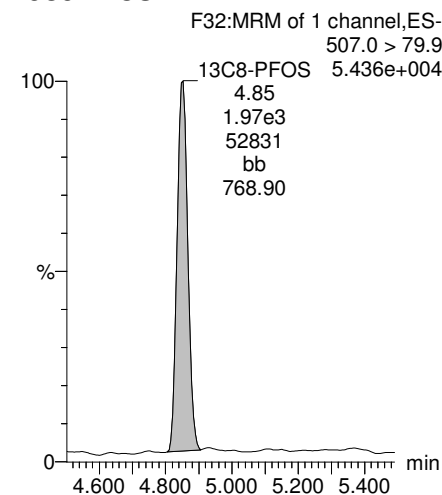
**13C2-PFOA**



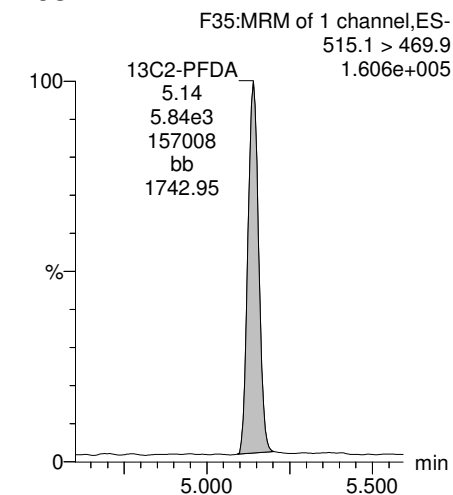
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

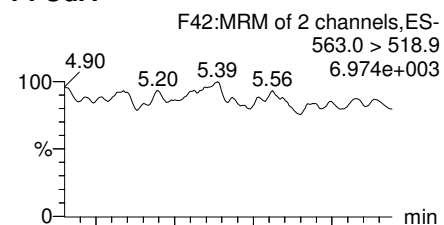


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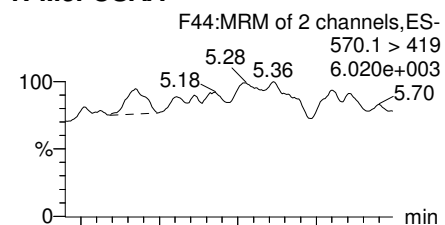
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Name: 171223M1\_73, Date: 24-Dec-2017, Time: 02:21:55, ID: 1701911-17 WI-A06-6-S-14-1217 0.11887, Description: WI-A06-6-S-14-1217

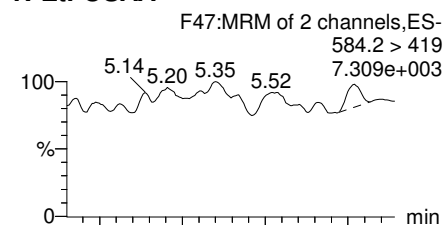
**PFUdA**



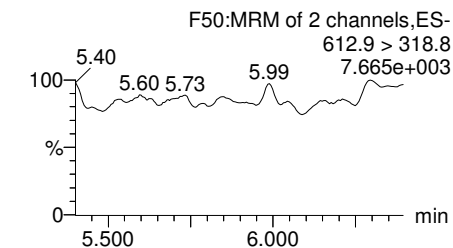
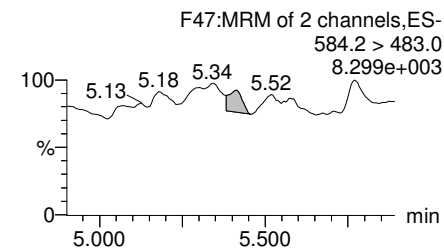
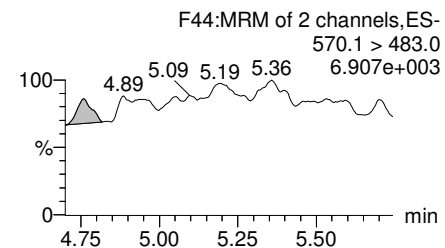
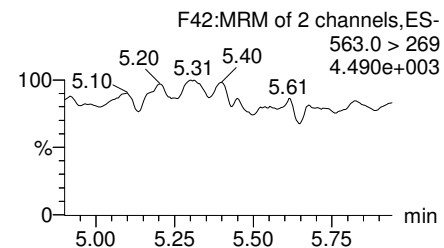
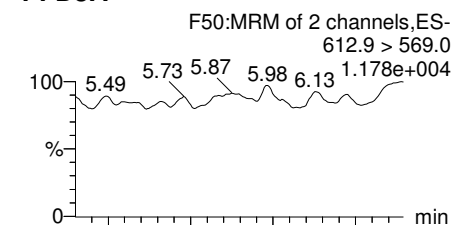
**N-MeFOSAA**



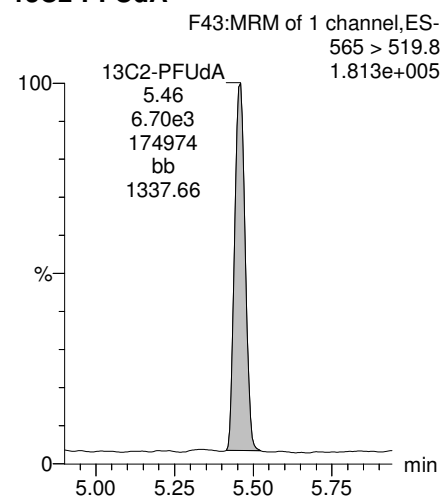
**N-EtFOSAA**



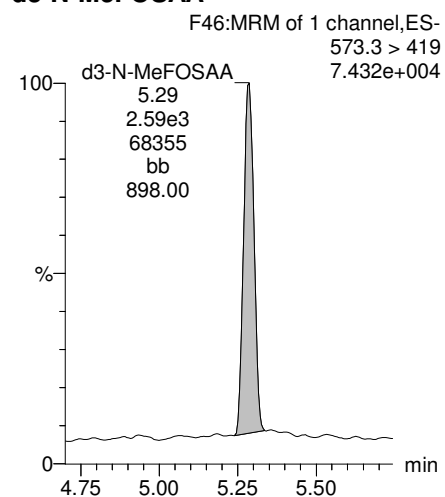
**PFDoA**



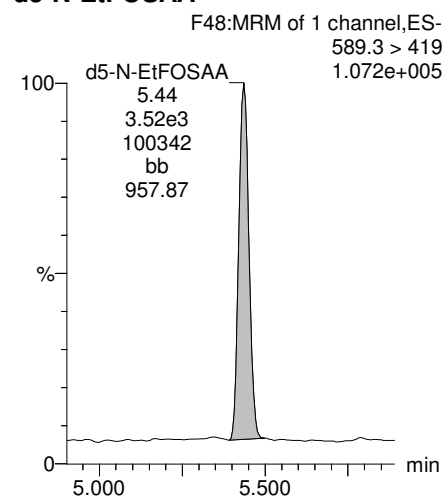
**13C2-PFUdA**



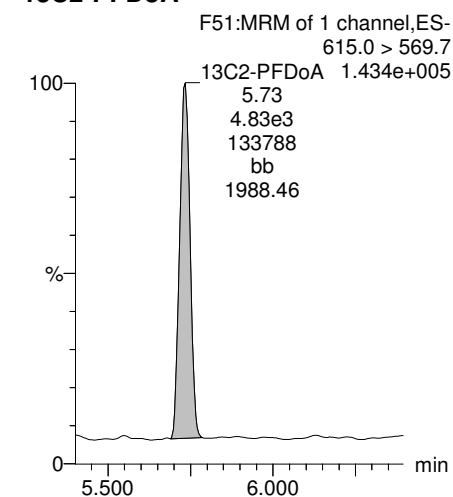
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDoA**

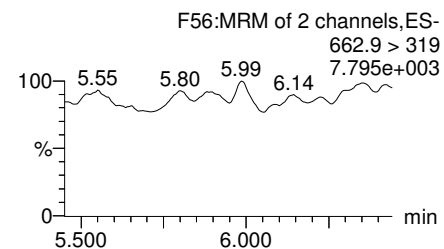
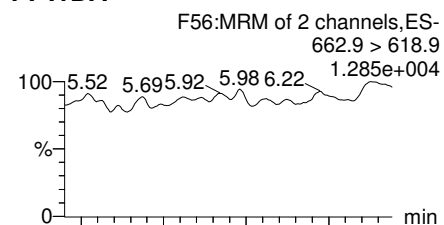


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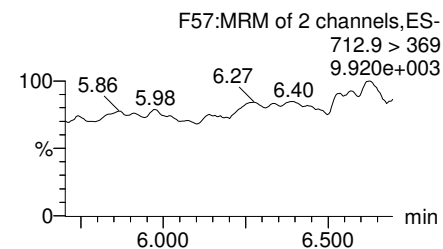
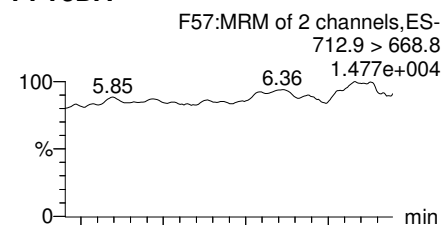
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Name: 171223M1\_73, Date: 24-Dec-2017, Time: 02:21:55, ID: 1701911-17 WI-A06-6-S-14-1217 0.11887, Description: WI-A06-6-S-14-1217

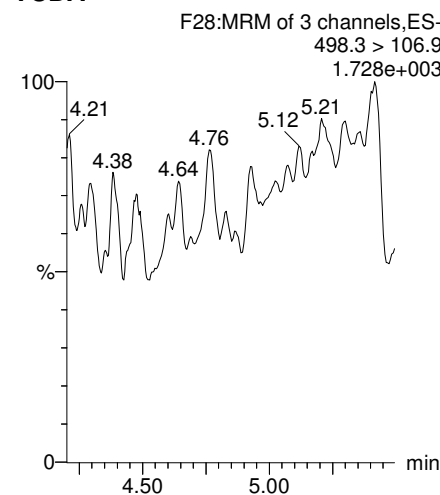
**PFTrDA**



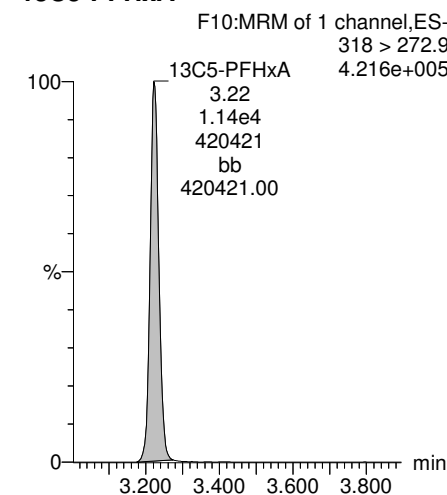
**PFTeDA**



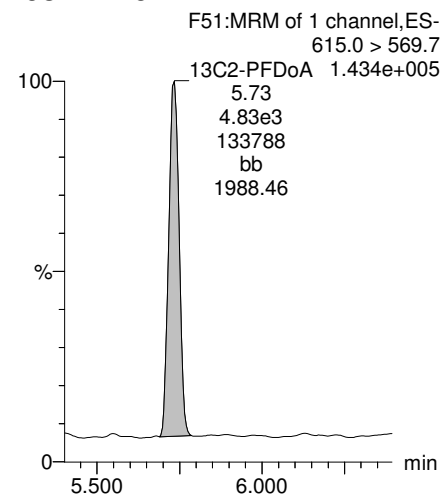
**TCDA**



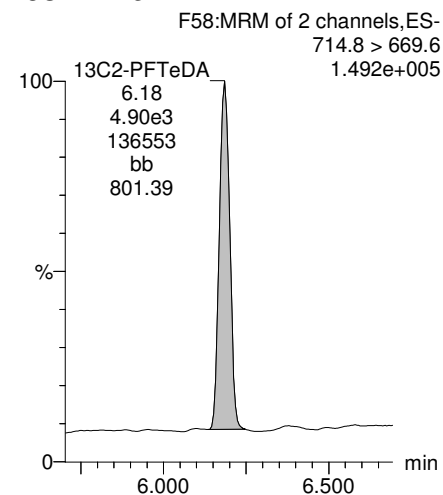
**13C5-PFHxA**



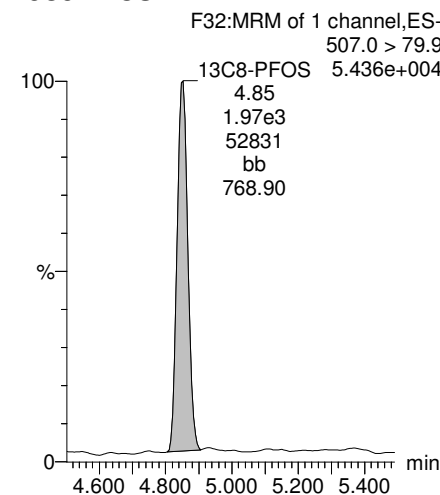
**13C2-PFDoA**



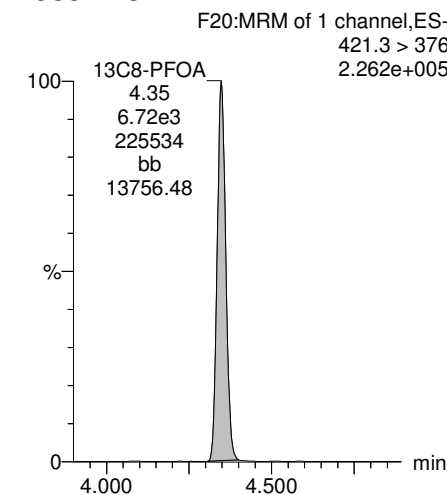
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**

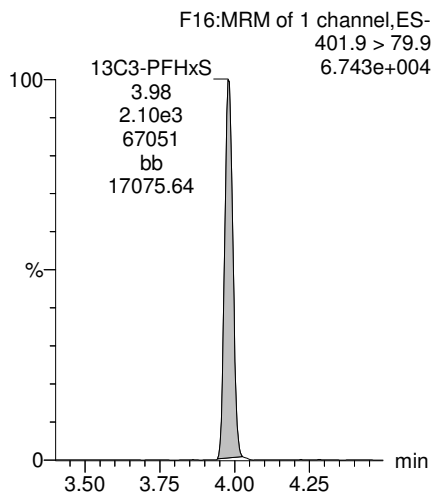


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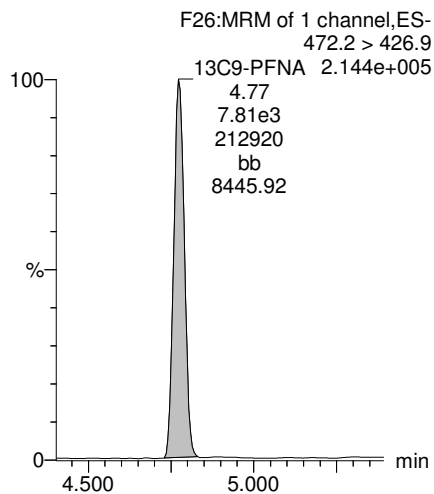
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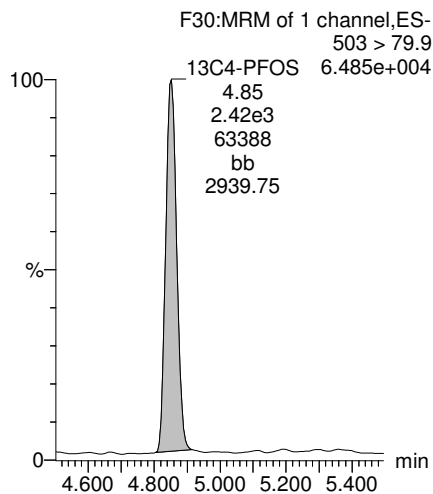
**13C3-PFHxS**



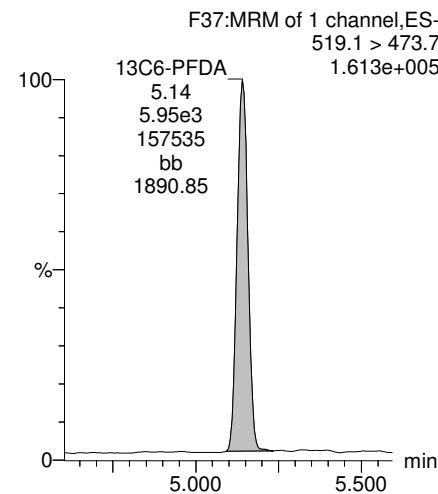
**13C9-PFNA**



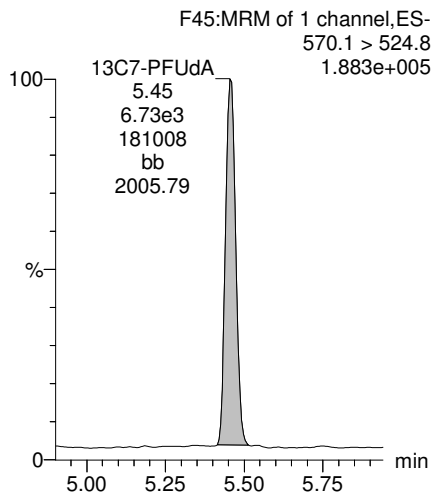
**13C4-PFOS**



**13C6-PFDA**



**13C7-PFUdA**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-74.qld

Last Altered: Thursday, December 28, 2017 09:26:52 Pacific Standard Time

Printed: Thursday, December 28, 2017 09:27:12 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	2.22e2	1.04e3	0.121		2.70	2.73	2.68	10.452	
2	4	PFHxA	313.2 > 268.9	4.49e3	2.80e3	0.121		3.20	3.23	8.01	44.746	
3	5	PFHpA	363.0 > 318.9	1.02e3	5.32e3	0.121		3.80	3.84	2.39	13.389	
4	6	L-PFHxS	398.9 > 79.6	8.86e2	8.22e2	0.121		3.95	3.98	13.5	62.460	
5	9	L-PFOA	413 > 368.7	6.68e3	7.79e3	0.121		4.32	4.35	10.7	85.029	
6	12	PFNA	463.0 > 418.8	6.92e2	5.88e3	0.121		4.75	4.78	1.47	6.297	
7	14	L-PFOS	499 > 79.9		2.23e3	0.121		4.83				
8	16	PFDA	513 > 468.8		5.54e3	0.121		5.11				
9	18	N-MeFOSAA	570.1 > 419		1.96e3	0.121		5.26				
10	19	N-EtFOSAA	584.2 > 419		2.34e3	0.121		5.42				
11	20	PFUdA	563.0 > 518.9		6.79e3	0.121		5.43				
12	22	PFDoA	612.9 > 569.0		3.60e3	0.121		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-74.qld

Last Altered: Thursday, December 28, 2017 09:26:52 Pacific Standard Time

Printed: Thursday, December 28, 2017 09:29:14 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\_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	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.60e3	0.121		5.95				
2	25 PFTeDA	712.9 > 668.8		4.72e3	0.121		6.16				
3	33 13C3-PFBS	302. > 98.8	1.04e3	1.02e4	0.121	0.106	2.70	2.73	1.27	98.721	95.8
4	34 13C2-PFHxA	315 > 269.8	2.80e3	1.02e4	0.121	0.743	3.20	3.22	3.43	38.030	92.3
5	35 13C4-PFHpA	367.2 > 321.8	5.32e3	1.02e4	0.121	0.557	3.80	3.84	6.51	96.381	93.5
6	36 18O2-PFHxS	403.0 > 102.6	8.22e2	1.97e3	0.121	0.433	3.95	3.98	5.22	99.382	96.4
7	37 13C2-6:2 FTS	429.1 > 408.9	1.93e3	7.23e3	0.121	0.275	4.26	4.29	3.33	99.970	97.0
8	38 13C2-PFOA	414.9 > 369.7	7.79e3	7.23e3	0.121	1.141	4.32	4.35	13.5	97.168	94.3
9	39 13C5-PFNA	468.2 > 422.9	5.88e3	6.77e3	0.121	0.963	4.75	4.78	10.8	92.857	90.1
10	40 13C8-PFOSA	506.1 > 77.7	1.57e3	6.99e3	0.121	0.373	4.81	4.84	2.80	61.849	60.0
11	41 13C8-PFOS	507.0 > 79.9	2.23e3	2.23e3	0.121	1.075	4.83	4.85	12.5	95.976	93.1
12	42 13C2-PFDA	515.1 > 469.9	5.54e3	6.55e3	0.121	1.213	5.11	5.14	10.6	71.843	69.7
13	43 13C2-8:2 FTS	529.1 > 508.7	1.12e3	1.02e4	0.121	0.109	5.09	5.11	1.37	103.574	100.5
14	44 d3-N-MeFOSAA	573.3 > 419	1.96e3	6.99e3	0.121	0.405	5.26	5.29	3.50	71.240	69.1
15	45 d5-N-EtFOSAA	589.3 > 419	2.34e3	6.99e3	0.121	0.490	5.42	5.44	4.19	70.436	68.4
16	46 13C2-PFUdA	565 > 519.8	6.79e3	6.99e3	0.121	1.154	5.43	5.46	12.1	86.729	84.2
17	47 13C2-PFDoA	615.0 > 569.7	3.60e3	6.99e3	0.121	0.623	5.70	5.73	6.43	85.186	82.7
18	49 13C2-PFTeDA	714.8 > 669.6	4.72e3	6.99e3	0.121	0.706	6.16	6.18	8.44	98.608	95.7
19	55 13C5-PFHxA	318 > 272.9	1.02e4	1.02e4	0.121	1.000	3.20	3.22	12.5	103.042	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.97e3	1.97e3	0.121	1.000	3.95	3.98	12.5	103.042	100.0
21	57 13C8-PFOA	421.3 > 376	7.23e3	7.23e3	0.121	1.000	4.32	4.35	12.5	103.042	100.0
22	58 13C9-PFNA	472.2 > 426.9	6.77e3	6.77e3	0.121	1.000	4.75	4.78	12.5	103.042	100.0
23	59 13C4-PFOS	503 > 79.9	2.23e3	2.23e3	0.121	1.000	4.83	4.85	12.5	103.042	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.55e3	6.55e3	0.121	1.000	5.11	5.14	12.5	103.042	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.99e3	6.99e3	0.121	1.000	5.43	5.46	12.5	103.042	100.0
26	62 Total PFHxS	398.9 > 79.6	8.86e2	8.22e2	0.121		4.00		13.5	62.460	
27	63 Total PFOA	413 > 368.7	7.71e3	7.79e3	0.121		4.30		12.4	96.878	
28	64 Total PFOS	499 > 79.9	0.00e0	2.23e3	0.121		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	1.96e3	0.121		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.34e3	0.121		5.40		0.000		

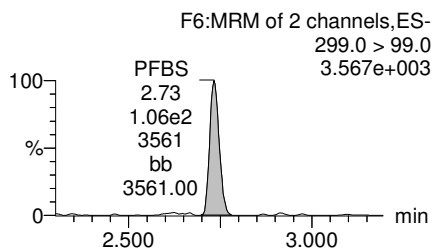
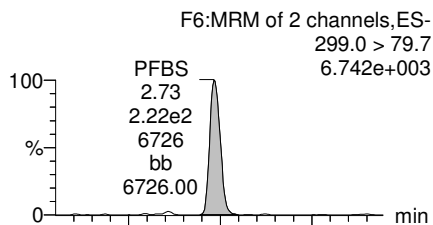
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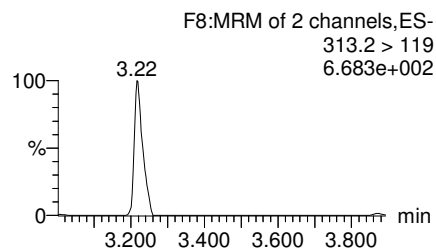
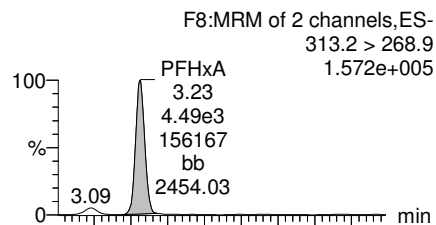
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Name: 171223M1\_74, Date: 24-Dec-2017, Time: 02:33:06, ID: 1701911-19 WI-A06-6-S-44-1217 0.12131, Description: WI-A06-6-S-44-1217

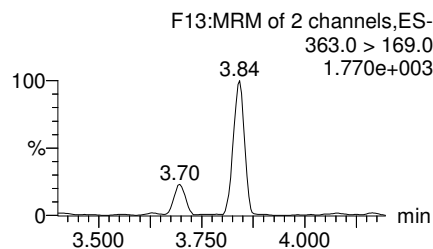
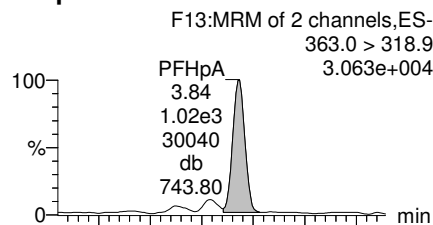
**PFBS**



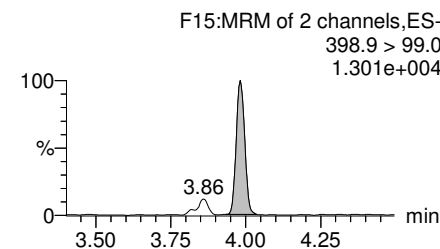
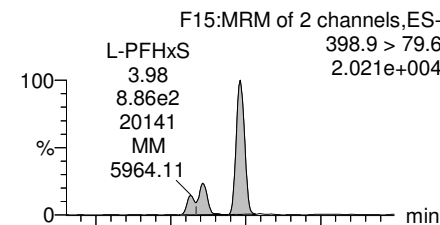
**PFHxA**



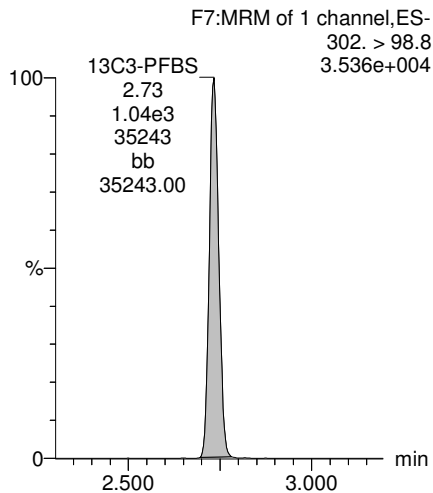
**PFHpA**



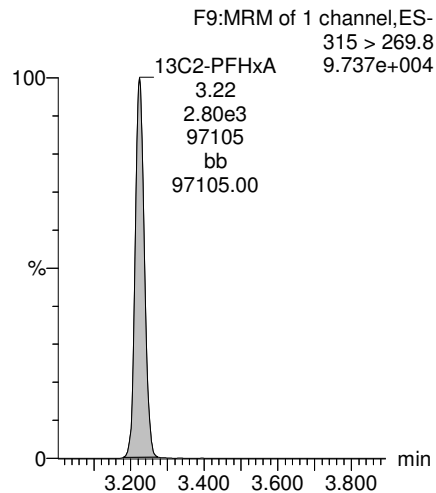
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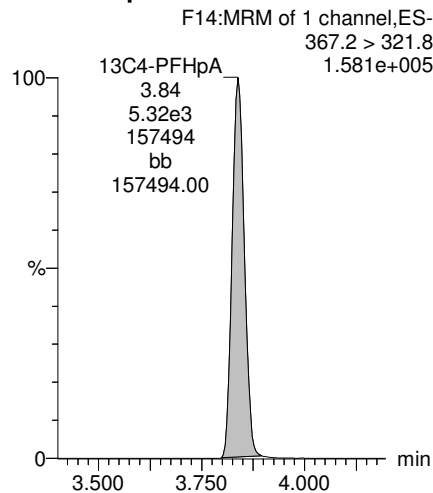
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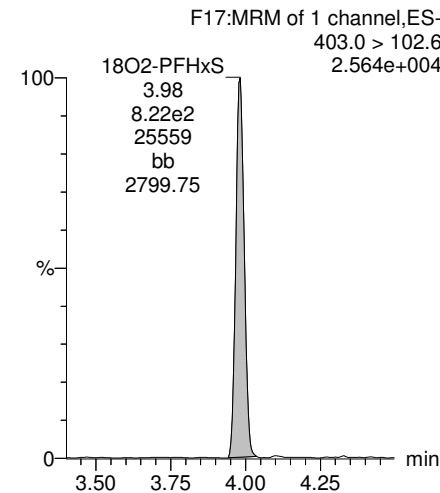
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



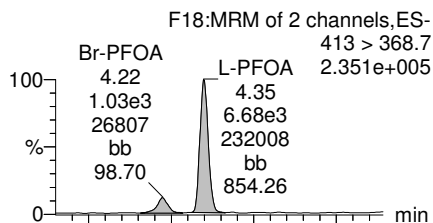


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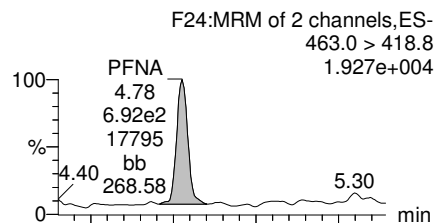
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Name: 171223M1\_74, Date: 24-Dec-2017, Time: 02:33:06, ID: 1701911-19 WI-A06-6-S-44-1217 0.12131, Description: WI-A06-6-S-44-1217

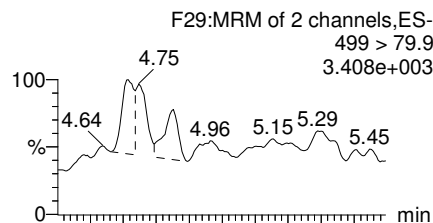
**Total PFOA**



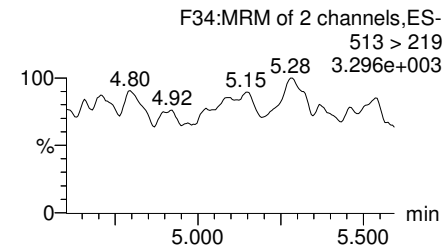
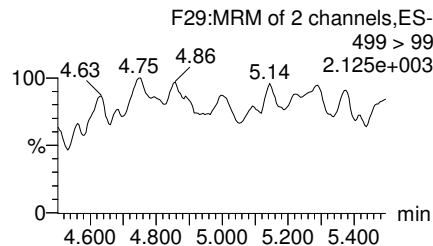
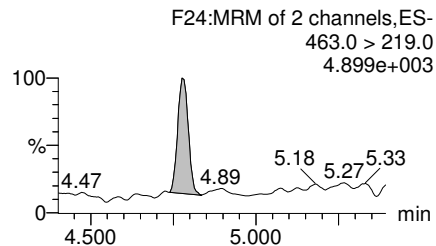
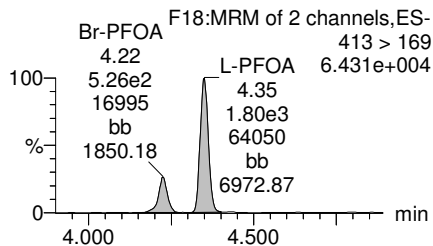
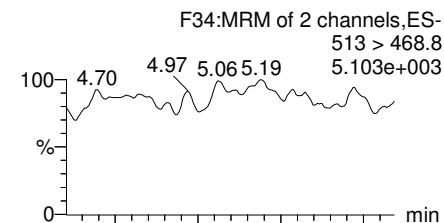
**PFNA**



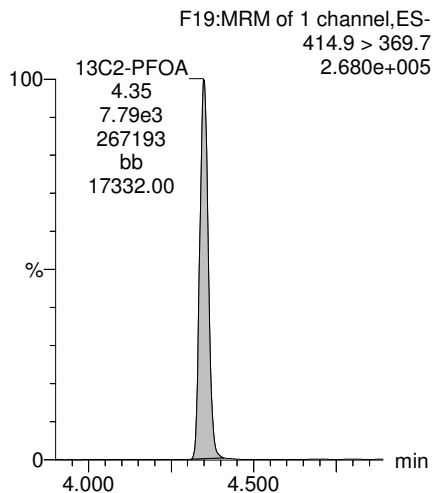
**Total PFOS**



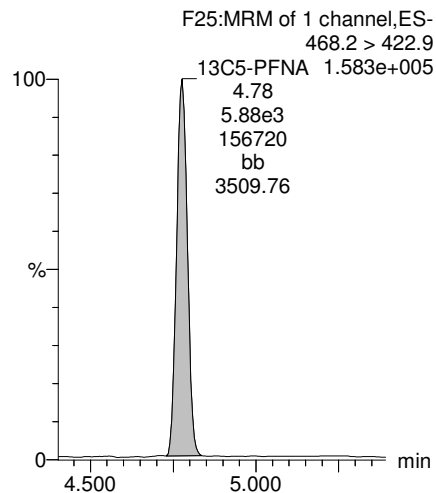
**PFDA**



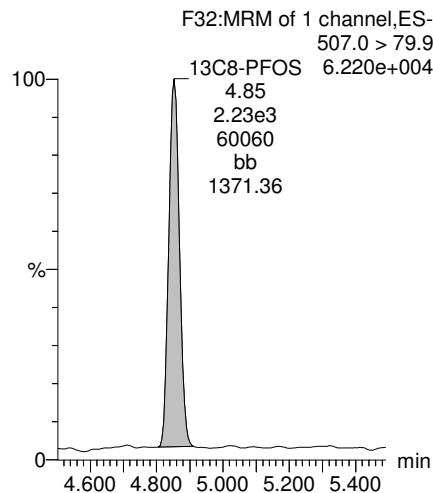
**13C2-PFOA**



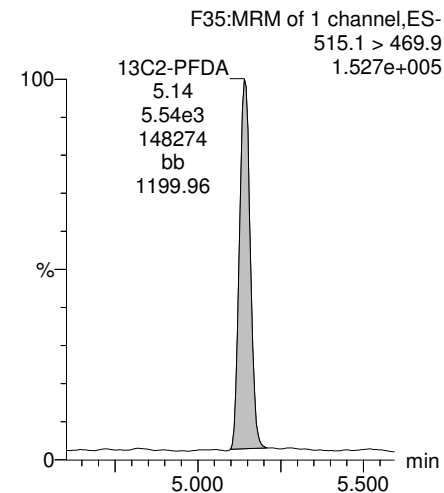
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**

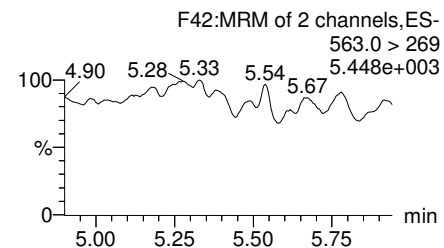
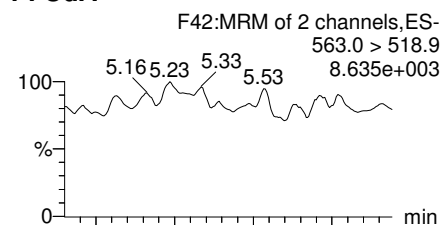


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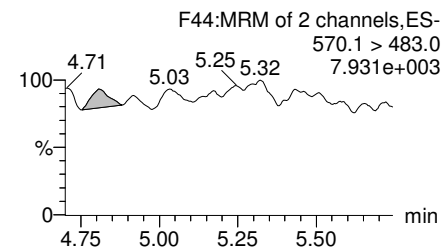
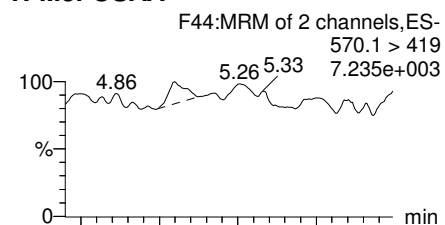
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Name: 171223M1\_74, Date: 24-Dec-2017, Time: 02:33:06, ID: 1701911-19 WI-A06-6-S-44-1217 0.12131, Description: WI-A06-6-S-44-1217

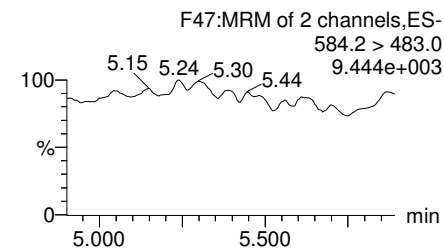
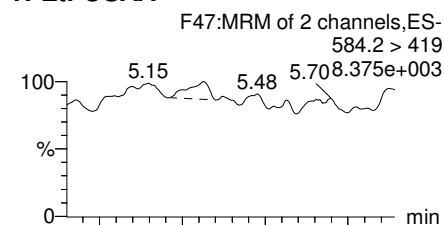
**PFUdA**



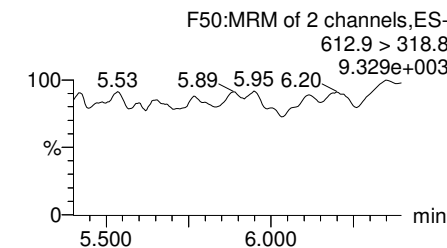
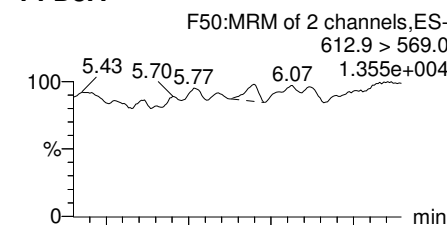
**N-MeFOSAA**



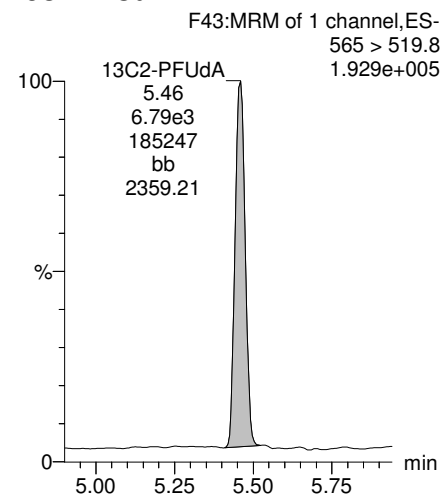
**N-EtFOSAA**



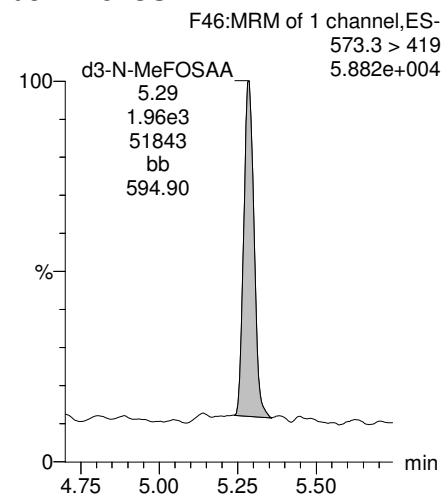
**PFDoA**



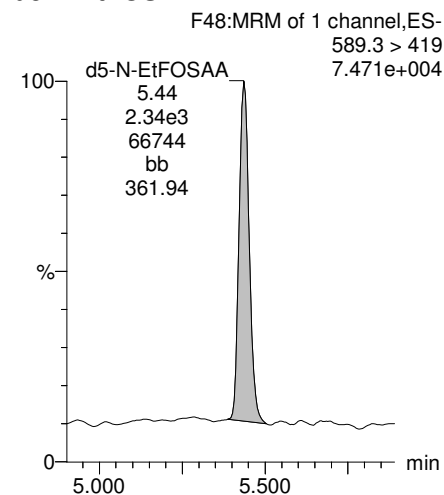
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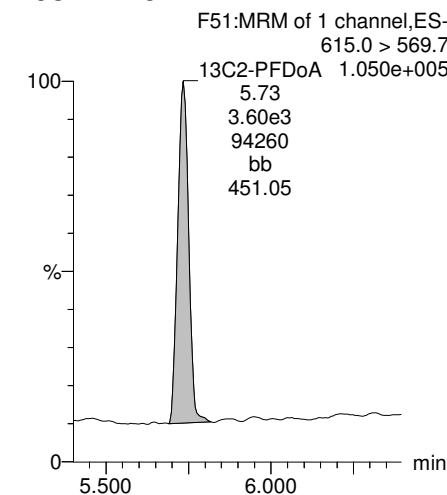
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



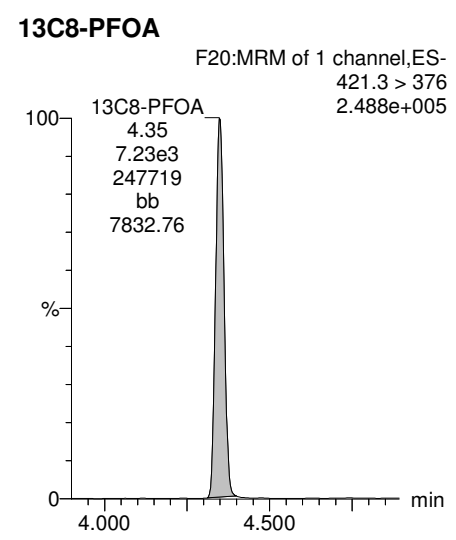
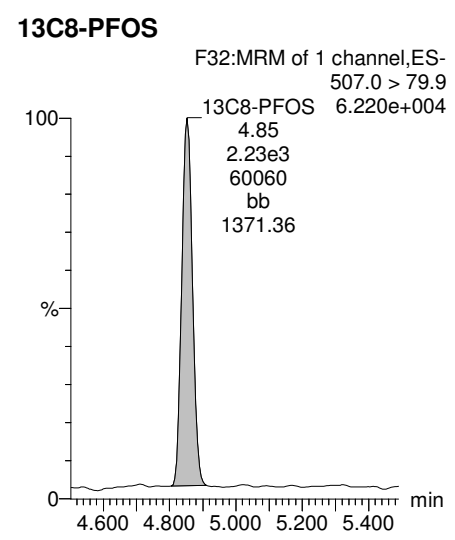
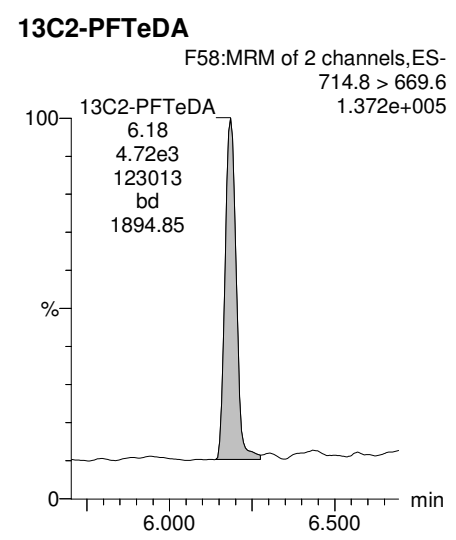
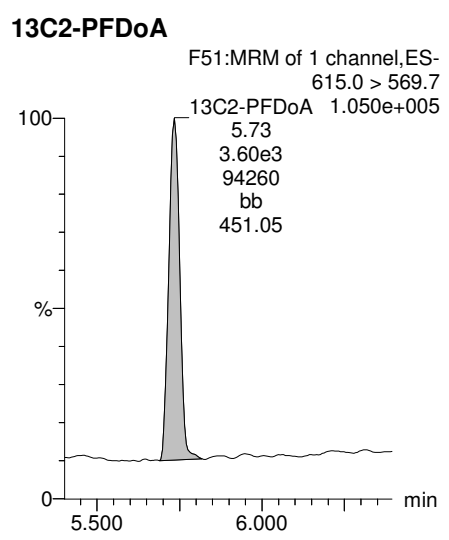
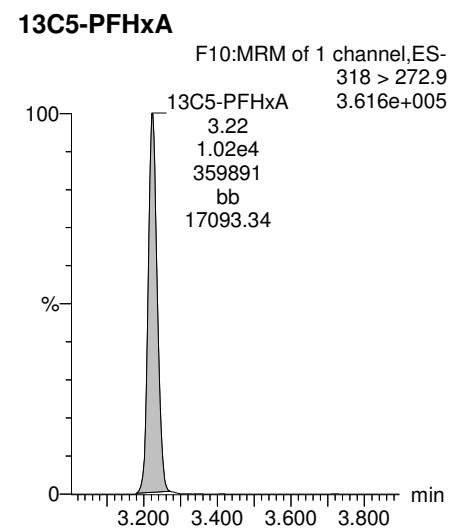
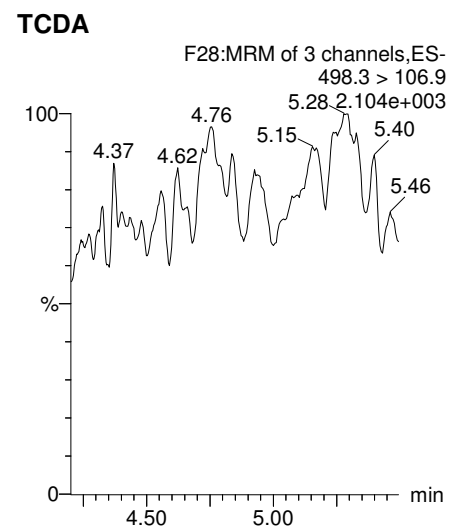
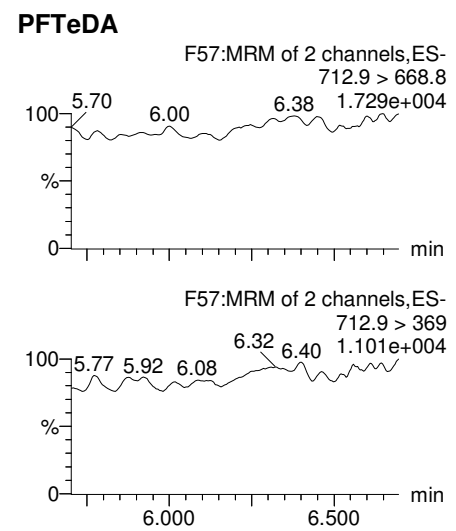
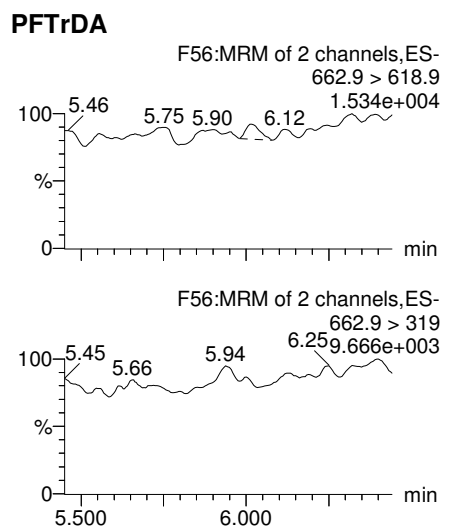
**13C2-PFDoA**



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Printed: Thursday, December 28, 2017 09:29:14 Pacific Standard Time

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

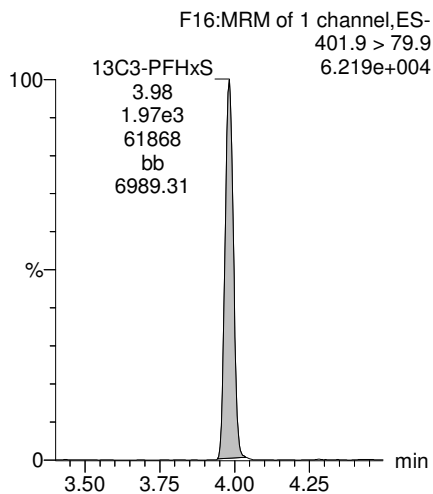


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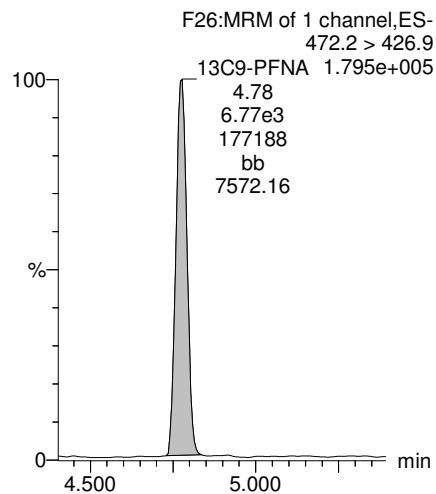
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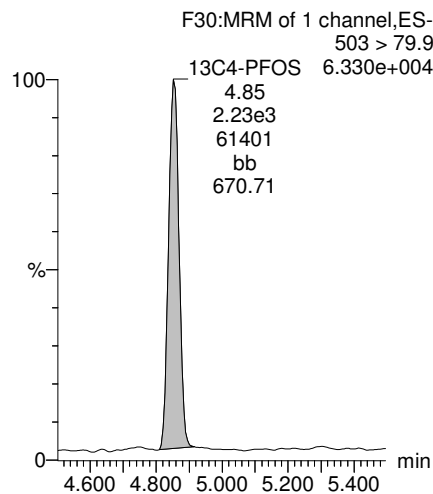
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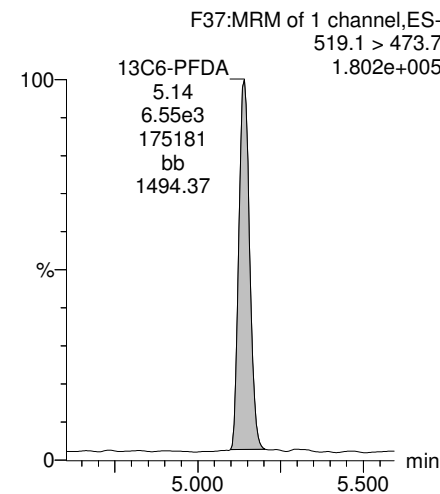
### 13C9-PFNA



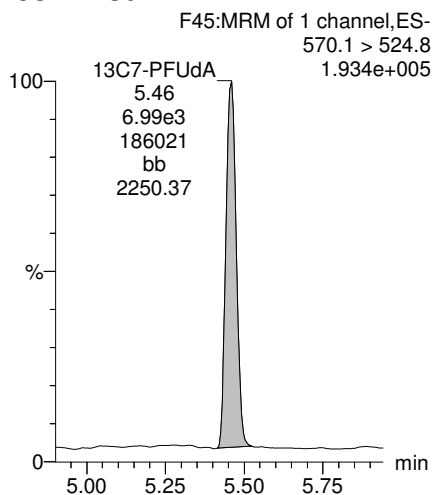
### 13C4-PFOS



### 13C6-PFDA



### 13C7-PFudA



Dataset: U:\Q4.PRO\results\171223M1\171223M1-75.qld

Last Altered: Thursday, December 28, 2017 09:31:44 Pacific Standard Time

Printed: Thursday, December 28, 2017 09:32:07 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\_75, Date: 24-Dec-2017, Time: 02:44:17, ID: 1701911-21 WI-A06-EB06-120817 0.11952, Description: WI-A06-EB06-120817

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		1.02e3	0.120		2.70				
2	4	PFHxA	313.2 > 268.9		2.82e3	0.120		3.20				
3	5	PFHpA	363.0 > 318.9		4.92e3	0.120		3.80				
4	6	L-PFHxS	398.9 > 79.6		8.83e2	0.120		3.95				
5	9	L-PFOA	413 > 368.7	1.46e2	7.26e3	0.120		4.32	4.35	0.252	0.526	
6	12	PFNA	463.0 > 418.8		5.34e3	0.120		4.75				
7	14	L-PFOS	499 > 79.9		2.33e3	0.120		4.83				
8	16	PFDA	513 > 468.8		6.29e3	0.120		5.11				
9	18	N-MeFOSAA	570.1 > 419		2.18e3	0.120		5.26				
10	19	N-EtFOSAA	584.2 > 419		2.14e3	0.120		5.42				
11	20	PFUdA	563.0 > 518.9		6.41e3	0.120		5.43				
12	22	PFDoA	612.9 > 569.0		4.08e3	0.120		5.70				

Dataset: U:\Q4.PRO\results\171223M1\171223M1-75.qld

Last Altered: Thursday, December 28, 2017 09:31:44 Pacific Standard Time

Printed: Thursday, December 28, 2017 09:33:07 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\_75, Date: 24-Dec-2017, Time: 02:44:17, ID: 1701911-21 WI-A06-EB06-120817 0.11952, Description: WI-A06-EB06-120817

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.08e3	0.120		5.95				
2	25 PFTeDA	712.9 > 668.8		4.68e3	0.120		6.16				
3	33 13C3-PFBS	302. > 98.8	1.02e3	1.01e4	0.120	0.106	2.70	2.73	1.26	99.409	95.1
4	34 13C2-PFHxA	315 > 269.8	2.82e3	1.01e4	0.120	0.743	3.20	3.22	3.50	39.419	94.2
5	35 13C4-PFHpA	367.2 > 321.8	4.92e3	1.01e4	0.120	0.557	3.80	3.84	6.11	91.782	87.8
6	36 18O2-PFHxS	403.0 > 102.6	8.83e2	2.39e3	0.120	0.433	3.95	3.98	4.61	89.217	85.3
7	37 13C2-6:2 FTS	429.1 > 408.9	1.99e3	7.57e3	0.120	0.275	4.26	4.30	3.29	100.099	95.7
8	38 13C2-PFOA	414.9 > 369.7	7.26e3	7.57e3	0.120	1.141	4.32	4.35	12.0	87.897	84.0
9	39 13C5-PFNA	468.2 > 422.9	5.34e3	7.10e3	0.120	0.963	4.75	4.78	9.41	81.782	78.2
10	40 13C8-PFOA	506.1 > 77.7	6.81e2	7.93e3	0.120	0.373	4.81	4.83	1.07	24.059	23.0
11	41 13C8-PFOS	507.0 > 79.9	2.33e3	2.20e3	0.120	1.075	4.83	4.85	13.2	102.875	98.4
12	42 13C2-PFDA	515.1 > 469.9	6.29e3	7.43e3	0.120	1.213	5.11	5.14	10.6	72.879	69.7
13	43 13C2-8:2 FTS	529.1 > 508.7	1.23e3	1.01e4	0.120	0.109	5.09	5.11	1.53	116.961	111.8
14	44 d3-N-MeFOSAA	573.3 > 419	2.18e3	7.93e3	0.120	0.405	5.26	5.28	3.43	70.827	67.7
15	45 d5-N-EtFOSAA	589.3 > 419	2.14e3	7.93e3	0.120	0.490	5.42	5.43	3.38	57.612	55.1
16	46 13C2-PFUdA	565 > 519.8	6.41e3	7.93e3	0.120	1.154	5.43	5.45	10.1	73.222	70.0
17	47 13C2-PFDoA	615.0 > 569.7	4.08e3	7.93e3	0.120	0.623	5.70	5.73	6.42	86.336	82.6
18	49 13C2-PFTeDA	714.8 > 669.6	4.68e3	7.93e3	0.120	0.706	6.16	6.18	7.38	87.518	83.7
19	55 13C5-PFHxA	318 > 272.9	1.01e4	1.01e4	0.120	1.000	3.20	3.22	12.5	104.585	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.39e3	2.39e3	0.120	1.000	3.95	3.98	12.5	104.585	100.0
21	57 13C8-PFOA	421.3 > 376	7.57e3	7.57e3	0.120	1.000	4.32	4.35	12.5	104.585	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.10e3	7.10e3	0.120	1.000	4.75	4.78	12.5	104.585	100.0
23	59 13C4-PFOS	503 > 79.9	2.20e3	2.20e3	0.120	1.000	4.83	4.86	12.5	104.585	100.0
24	60 13C6-PFDA	519.1 > 473.7	7.43e3	7.43e3	0.120	1.000	5.11	5.14	12.5	104.585	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.93e3	7.93e3	0.120	1.000	5.43	5.46	12.5	104.585	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	8.83e2	0.120		4.00		0.000		
27	63 Total PFOA	413 > 368.7	1.46e2	7.26e3	0.120		4.30		0.252	0.526	
28	64 Total PFOS	499 > 79.9	0.00e0	2.33e3	0.120		4.80		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.18e3	0.120		5.20		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.14e3	0.120		5.40		0.000		

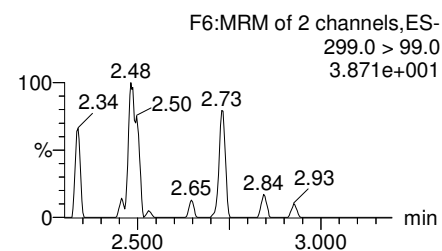
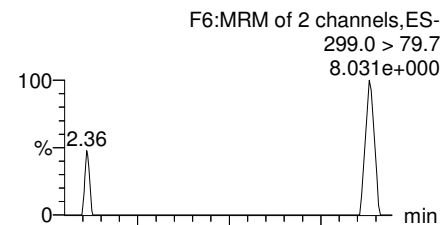
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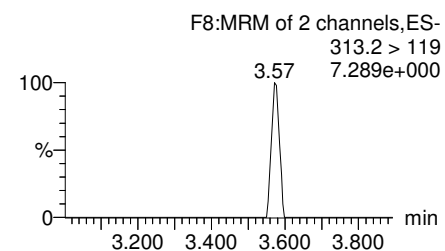
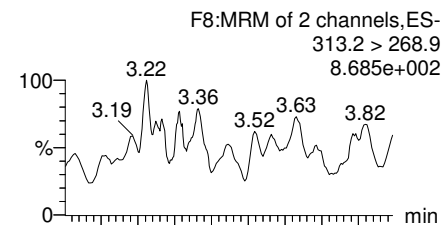
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Name: 171223M1\_75, Date: 24-Dec-2017, Time: 02:44:17, ID: 1701911-21 WI-A06-EB06-120817 0.11952, Description: WI-A06-EB06-120817

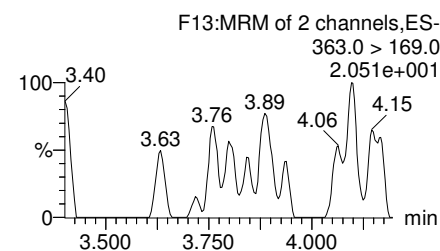
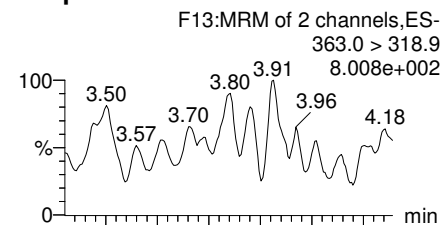
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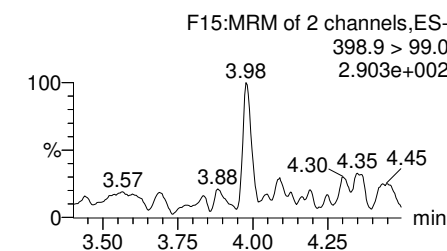
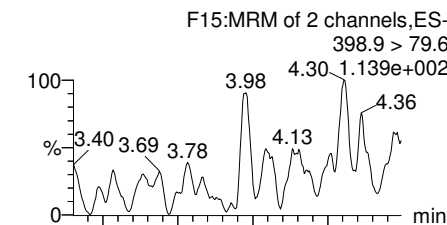
**PFHxA**



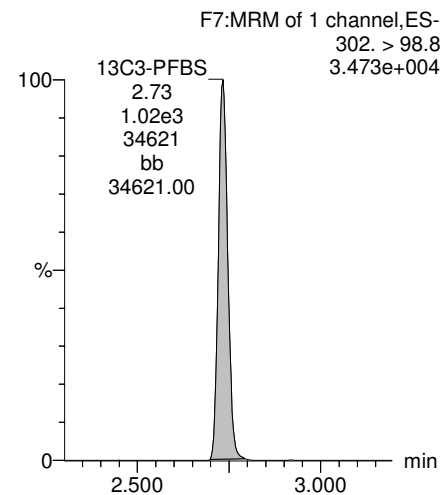
**PFHpA**



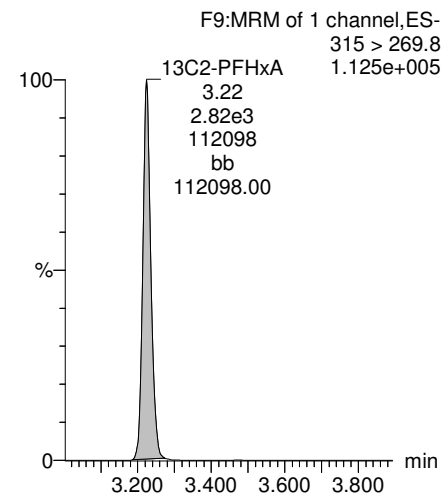
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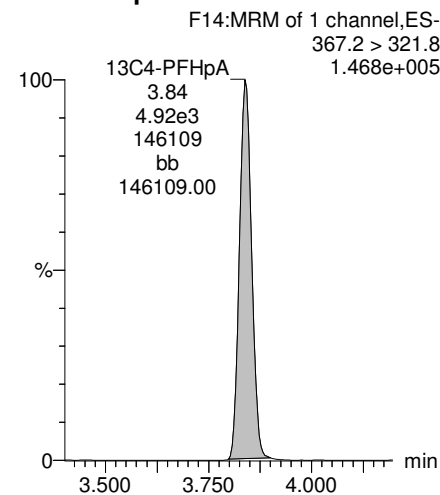
**13C3-PFBS**



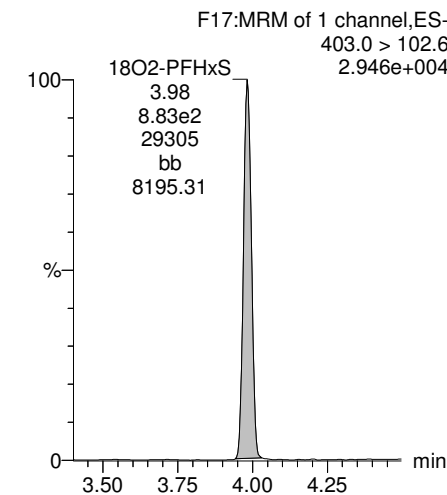
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

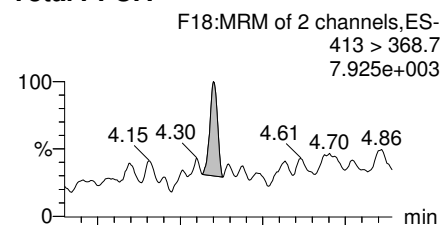


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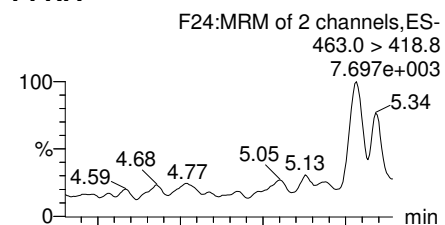
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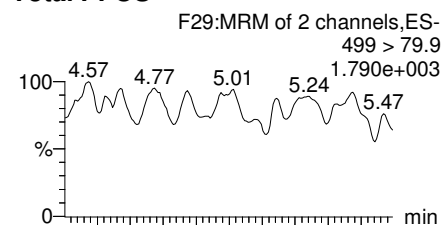
**Total PFOA**



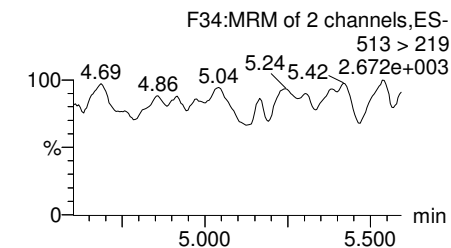
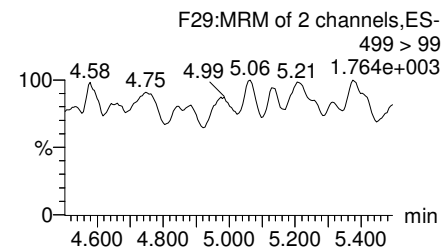
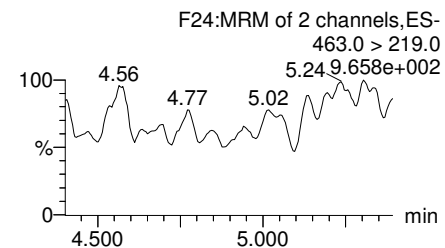
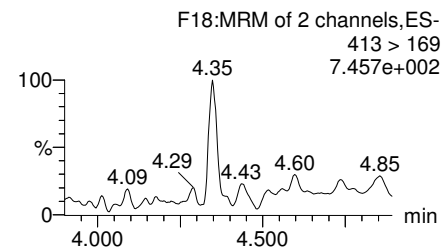
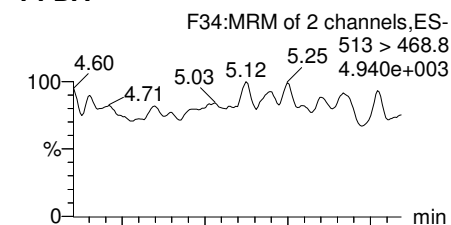
**PFNA**



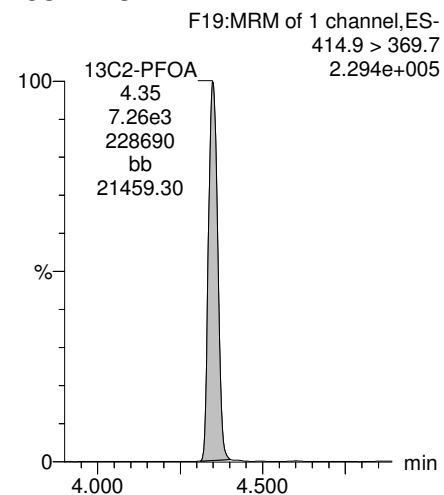
**Total PFOS**



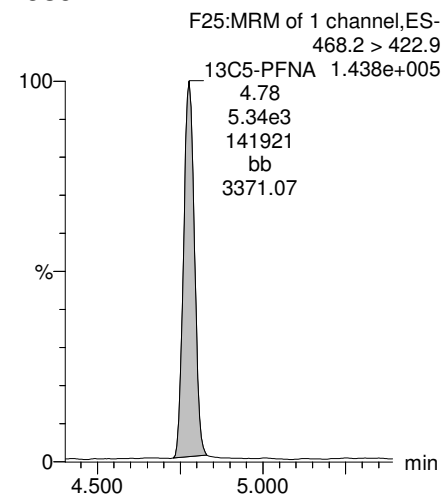
**PFDA**



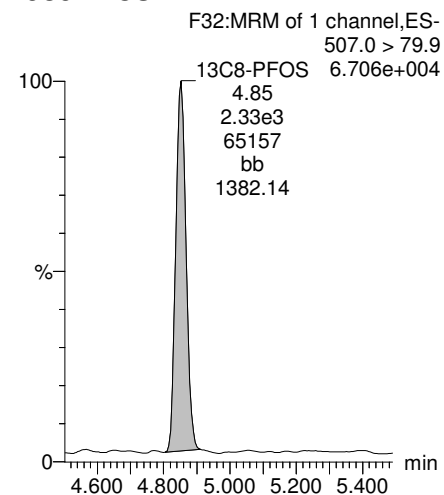
**13C2-PFOA**



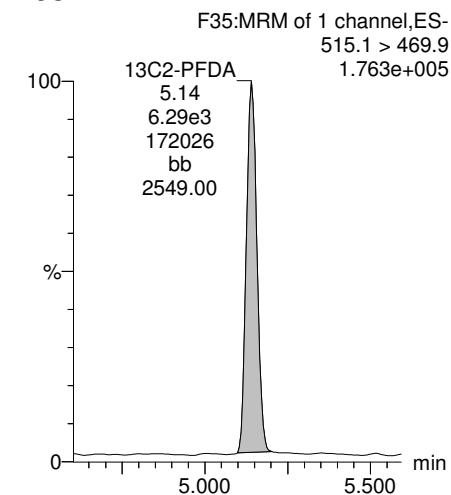
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**



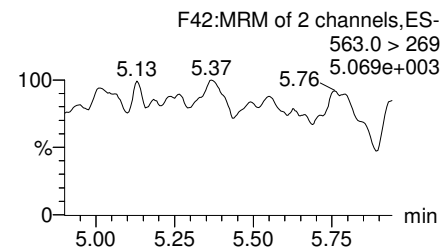
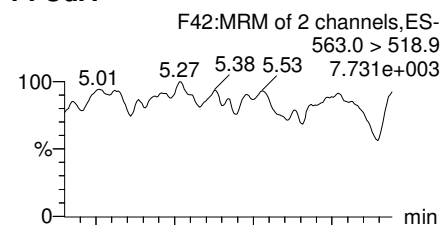


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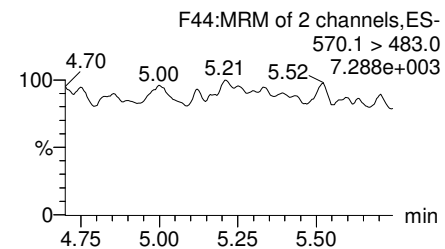
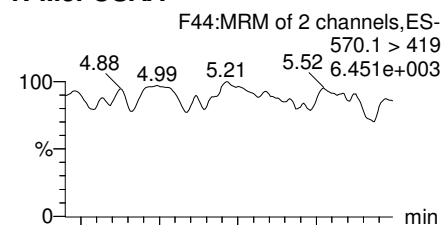
Last Altered: Thursday, December 28, 2017 09:31:44 Pacific Standard Time  
Printed: Thursday, December 28, 2017 09:33:07 Pacific Standard Time

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

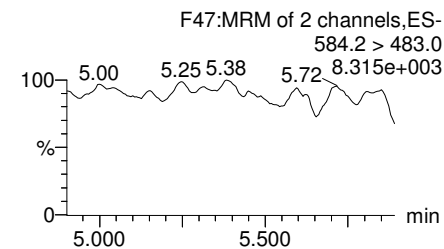
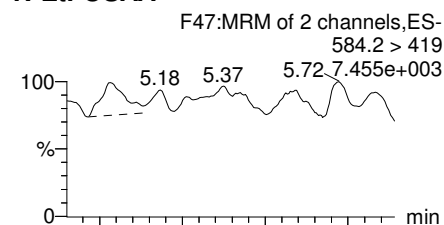
**PFUdA**



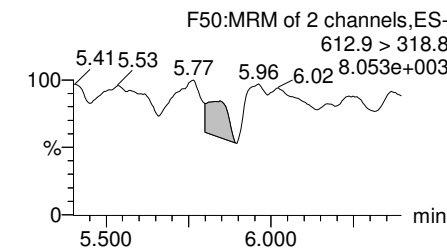
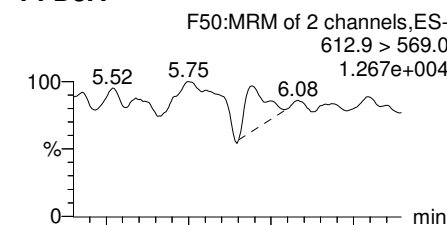
**N-MeFOSAA**



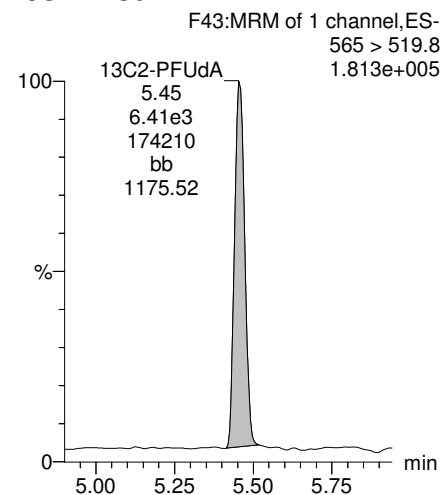
**N-EtFOSAA**



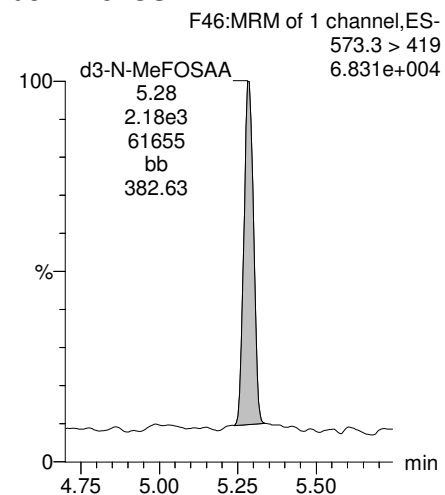
**PFDoA**



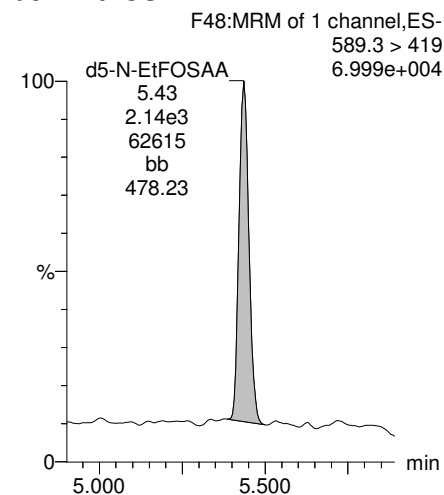
**13C2-PFUdA**



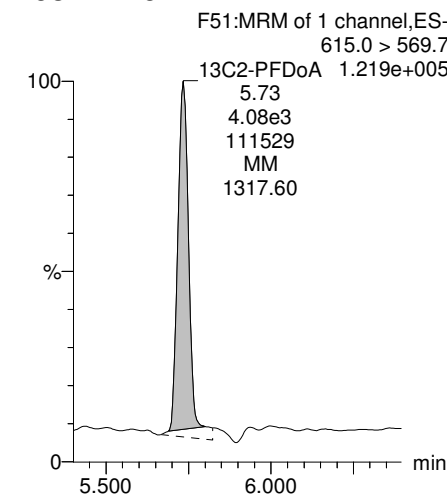
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



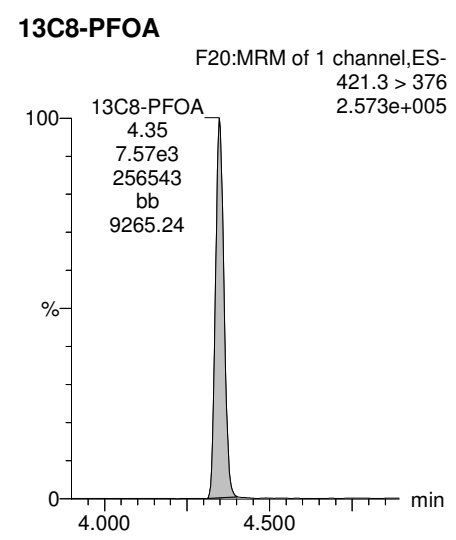
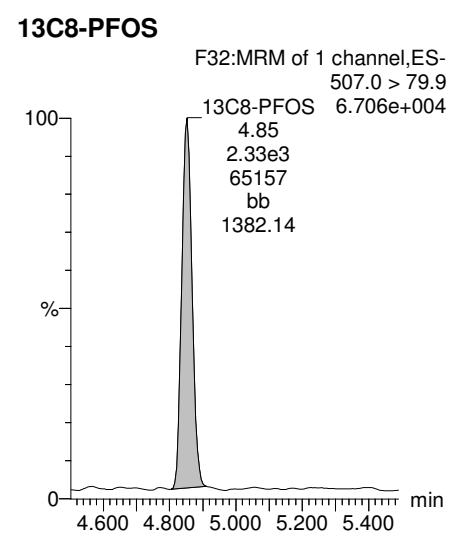
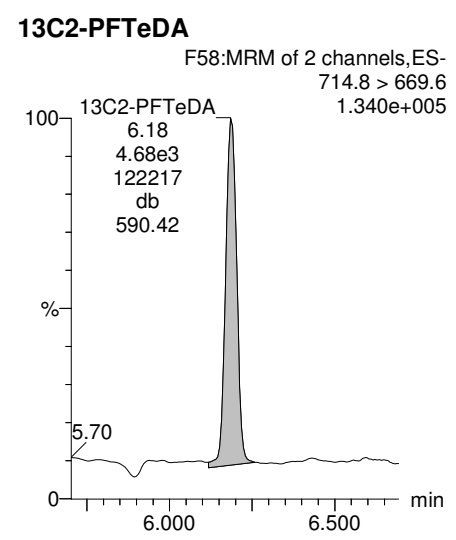
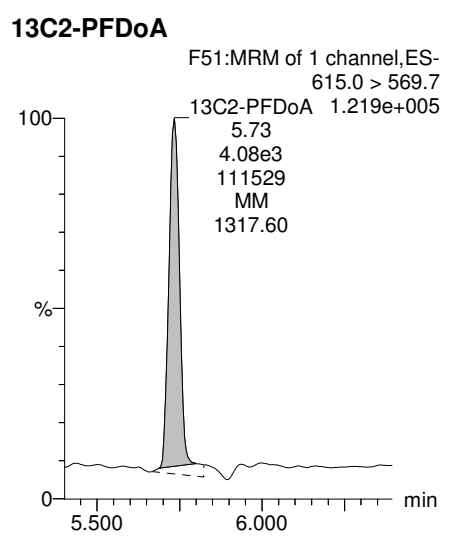
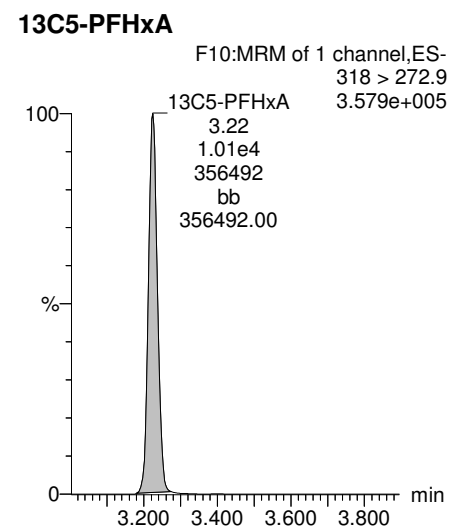
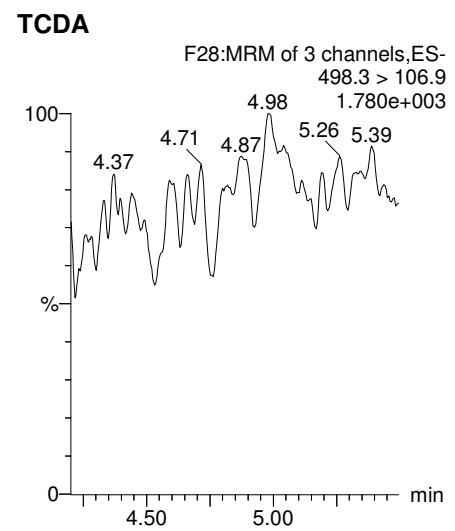
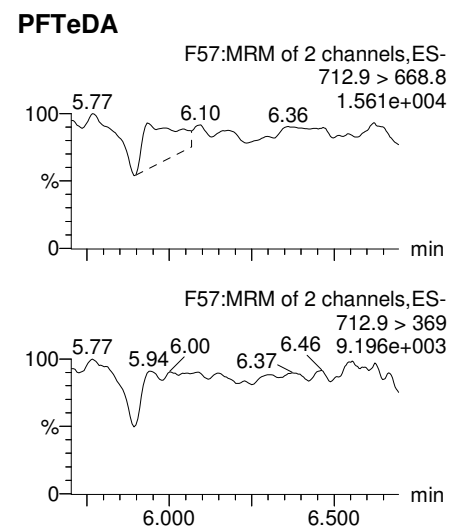
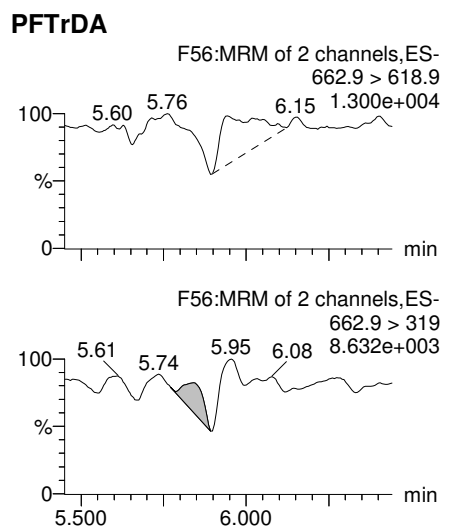
**13C2-PFDoA**



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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

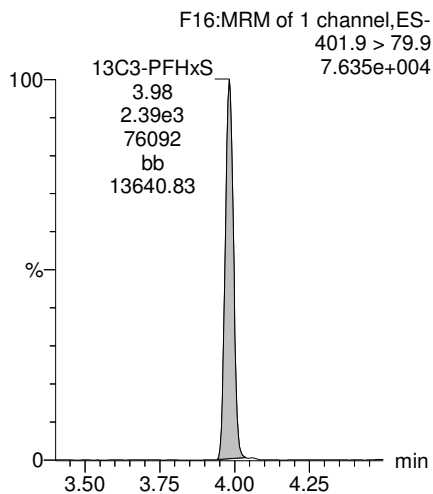


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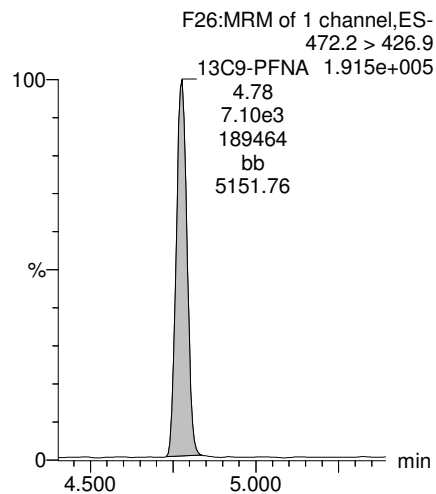
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Printed: Thursday, December 28, 2017 09:33:07 Pacific Standard Time

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

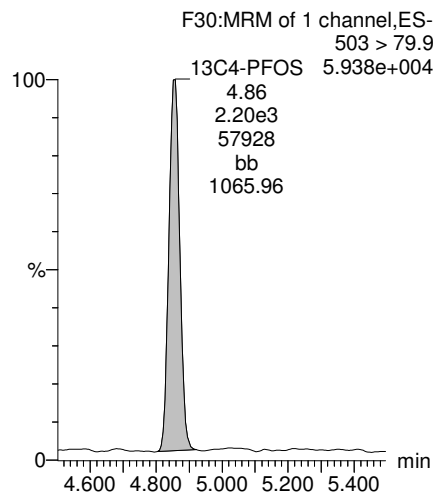
**13C3-PFHxS**



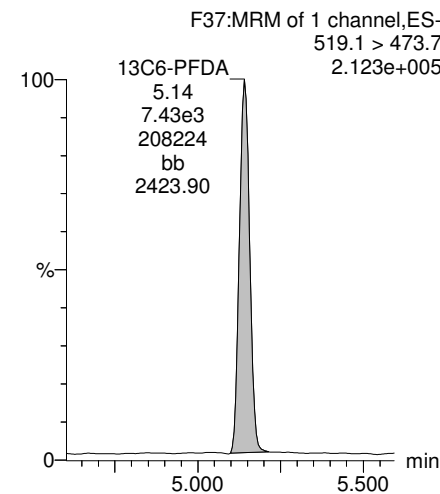
**13C9-PFNA**



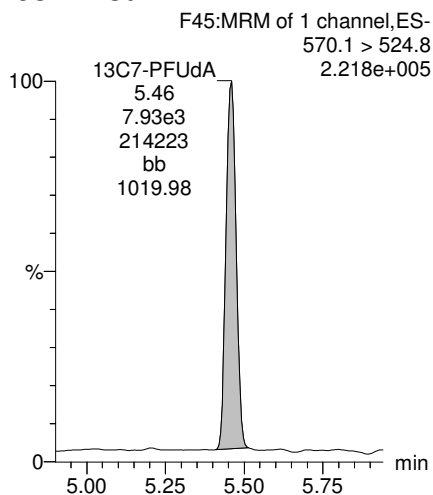
**13C4-PFOS**



**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	13C4-PFBA	IPA			NO
2	13C5-PFHxA	IPA			NO
3	13C3-PFHxS	IPA			NO
4	13C8-PFOA	IPA			NO
5	13C9-PFNA	IPA			NO
6	13C4-PFOS	IPA	1.77e1	0.6	NO
7	13C6-PFDA	IPA	3.52e1	0.5	NO
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	13C4-PFBA	B7L0075-BS1 OPR 0.125	7.27e3	77.9	NO
2	13C5-PFHxA	B7L0075-BS1 OPR 0.125	1.17e4	89.0	NO
3	13C3-PFHxS	B7L0075-BS1 OPR 0.125	2.48e3	97.5	NO
4	13C8-PFOA	B7L0075-BS1 OPR 0.125	7.96e3	69.4	NO
5	13C9-PFNA	B7L0075-BS1 OPR 0.125	9.74e3	88.8	NO
6	13C4-PFOS	B7L0075-BS1 OPR 0.125	2.64e3	85.1	NO
7	13C6-PFDA	B7L0075-BS1 OPR 0.125	7.58e3	103.6	NO
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	13C4-PFBA	IPA			NO
2	13C5-PFHxA	IPA			NO
3	13C3-PFHxS	IPA			NO
4	13C8-PFOA	IPA			NO
5	13C9-PFNA	IPA	8.17e0	0.1	YES
6	13C4-PFOS	IPA	5.21e1	1.7	YES
7	13C6-PFDA	IPA	3.36e1	0.5	YES
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	13C4-PFBA	B7L0075-BLK1 Method Blank 0.125	8.62e3	92.3	NO
2	13C5-PFHxA	B7L0075-BLK1 Method Blank 0.125	1.17e4	88.9	NO
3	13C3-PFHxS	B7L0075-BLK1 Method Blank 0.125	2.40e3	94.3	NO
4	13C8-PFOA	B7L0075-BLK1 Method Blank 0.125	8.49e3	74.0	NO
5	13C9-PFNA	B7L0075-BLK1 Method Blank 0.125	1.14e4	104.0	NO
6	13C4-PFOS	B7L0075-BLK1 Method Blank 0.125	3.10e3	99.9	NO
7	13C6-PFDA	B7L0075-BLK1 Method Blank 0.125	7.71e3	105.3	NO
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



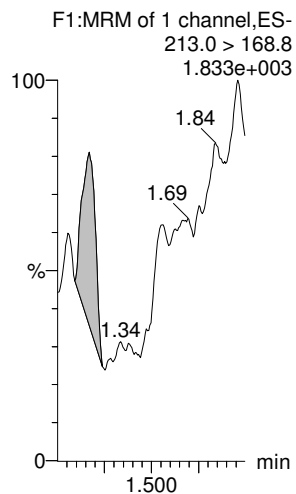
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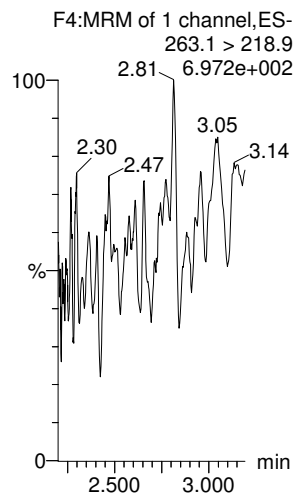
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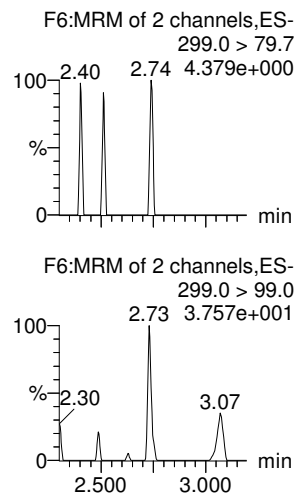
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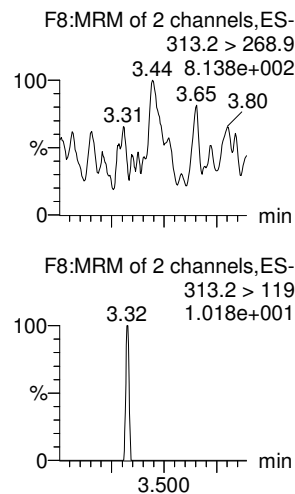
**PFPeA**



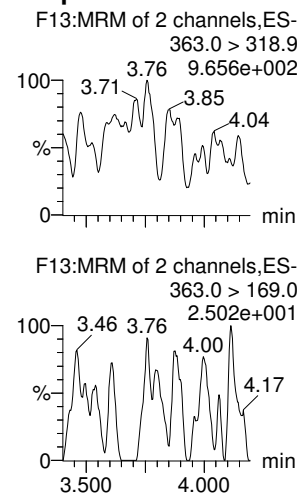
**PFBS**



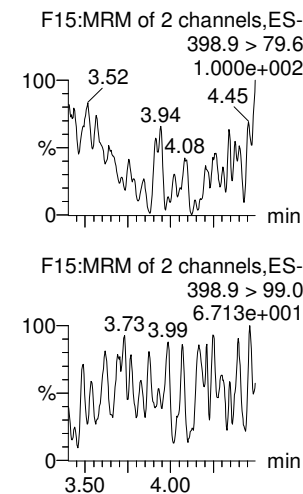
**PFHxA**



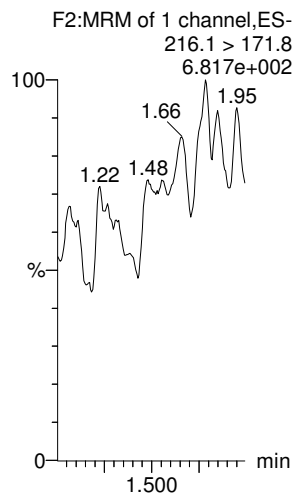
**PFHpA**



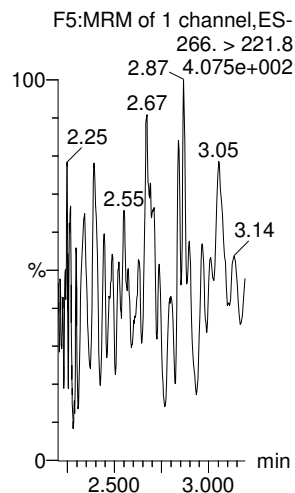
**L-PFHxS**



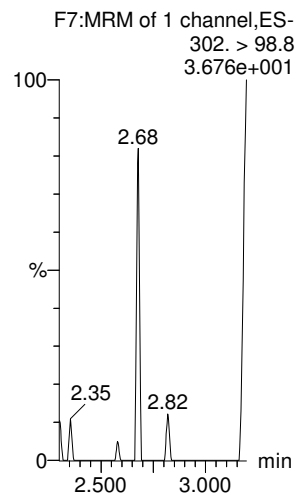
**13C3-PFBA**



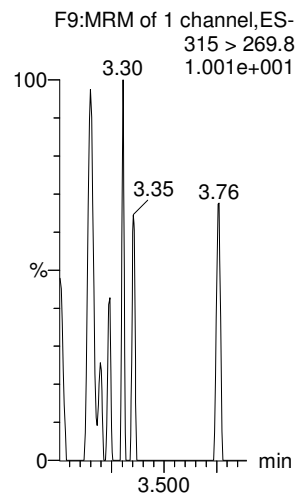
**13C3-PFPeA**



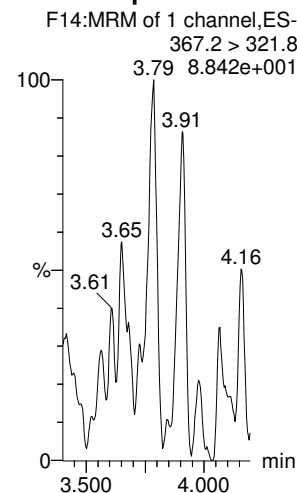
**13C3-PFBS**



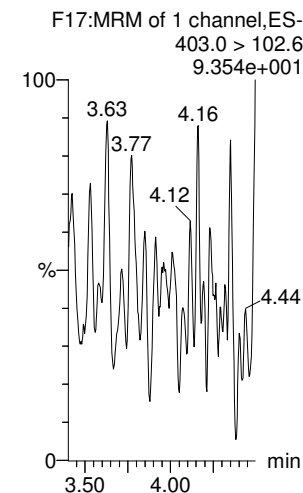
**13C2-PFHxA**



**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**

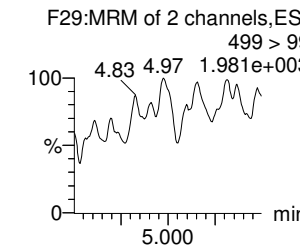
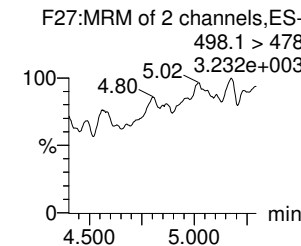
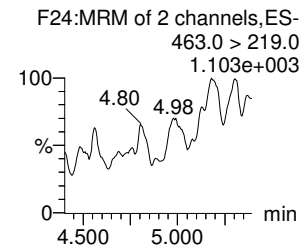
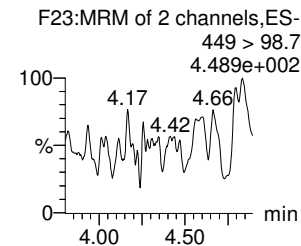
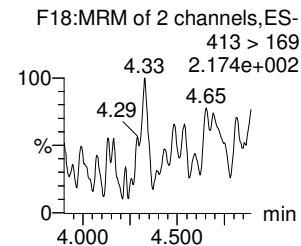
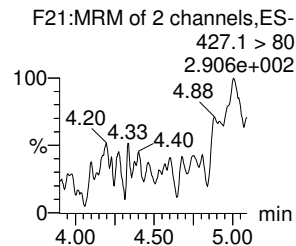
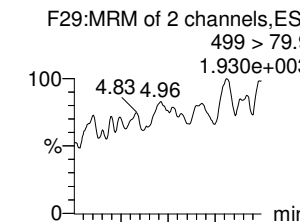
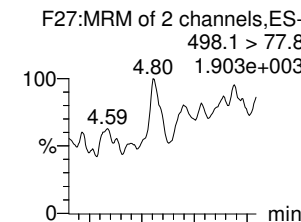
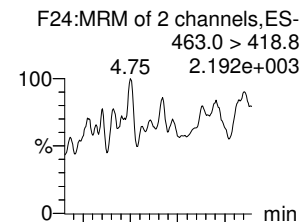
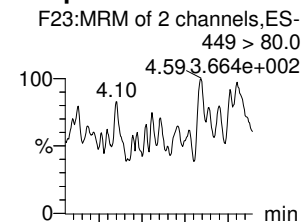
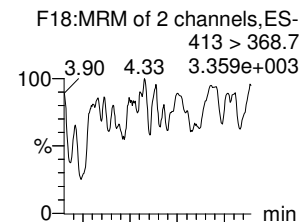
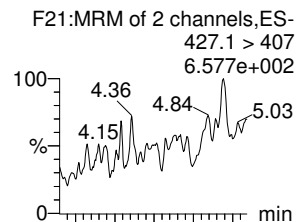
**L-PFOA**

**PFHpS**

**PFNA**

**PFOSA**

**L-PFOS**



**13C2-6:2 FTS**

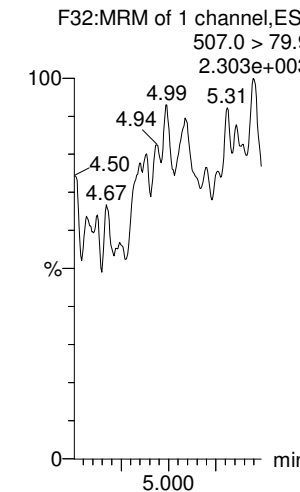
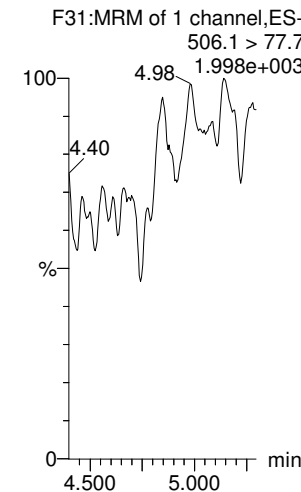
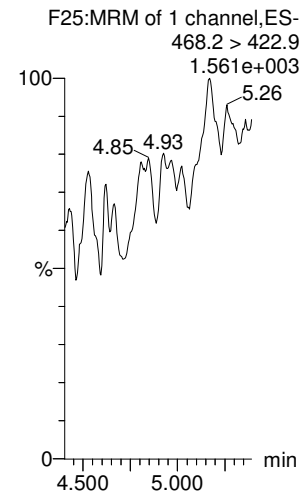
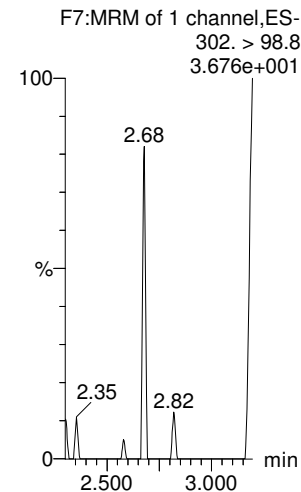
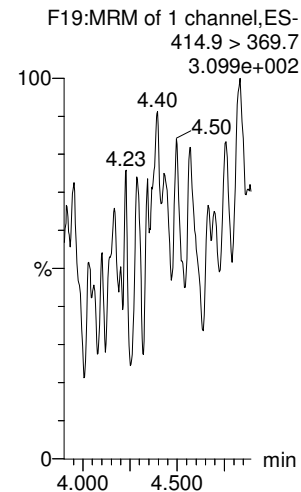
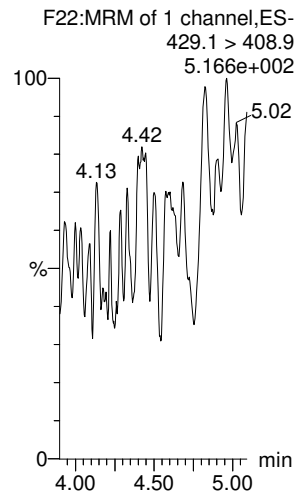
**13C2-PFOA**

**13C3-PFBS**

**13C5-PFNA**

**13C8-PFOA**

**13C8-PFOS**



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

**PFDA**

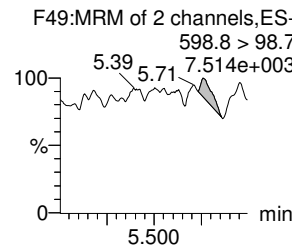
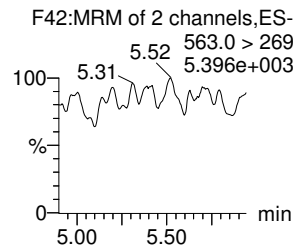
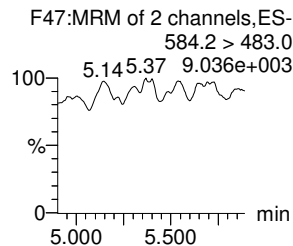
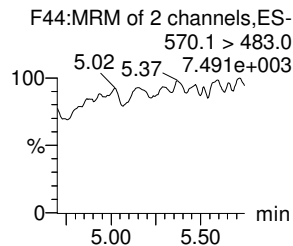
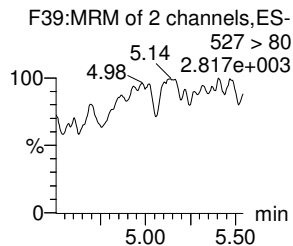
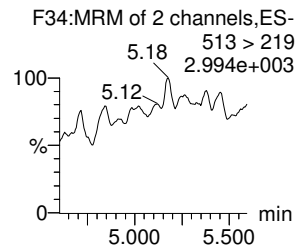
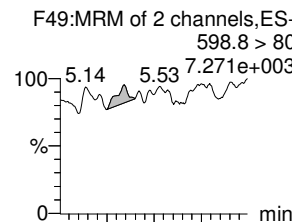
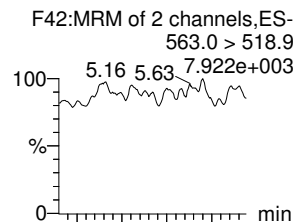
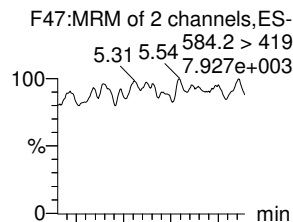
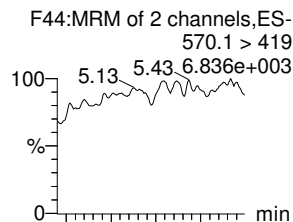
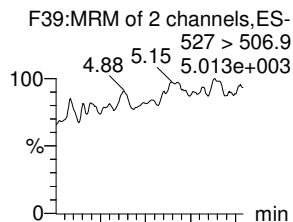
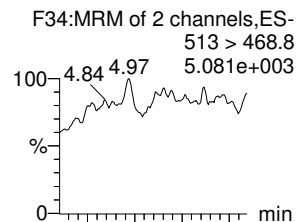
**8:2 FTS**

**N-MeFOSAA**

**N-EtFOSAA**

**PFUdA**

**PFDS**



**13C2-PFDA**

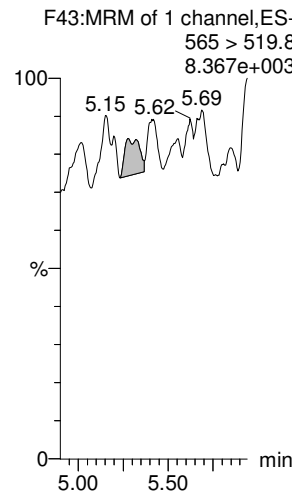
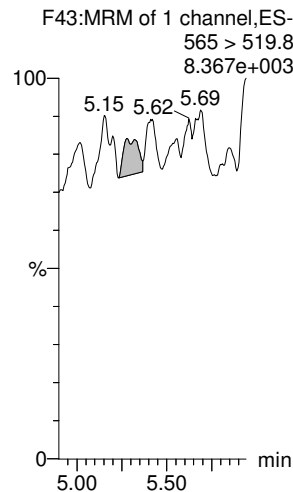
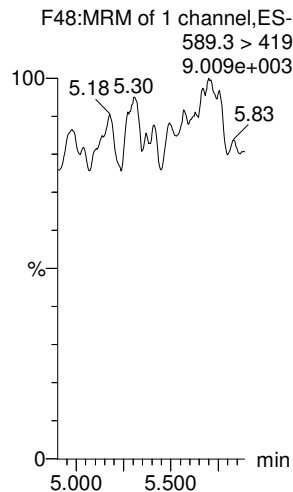
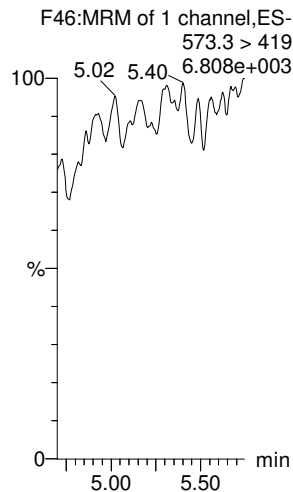
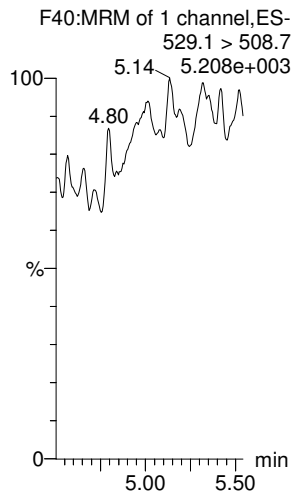
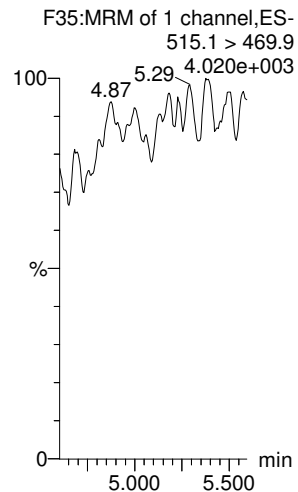
**13C2-8:2 FTS**

**d3-N-MeFOSAA**

**d5-N-EtFOSAA**

**13C2-PFUdA**

**13C2-PFUdA**



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

Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time  
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Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

**PFDoA**

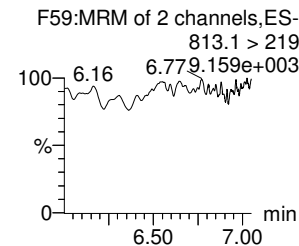
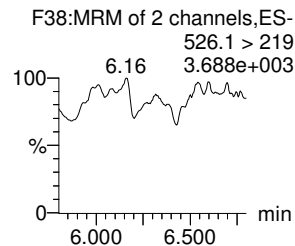
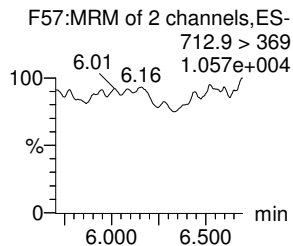
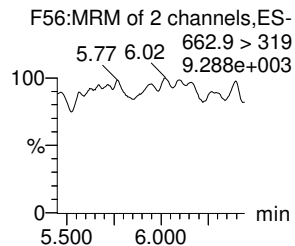
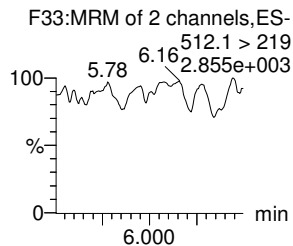
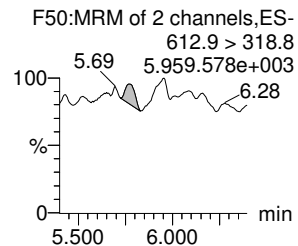
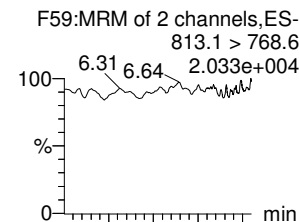
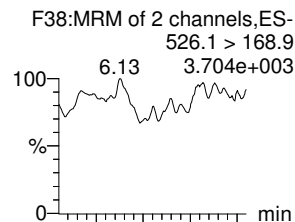
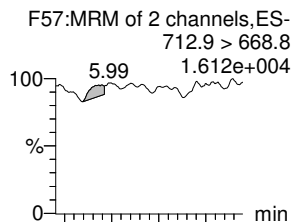
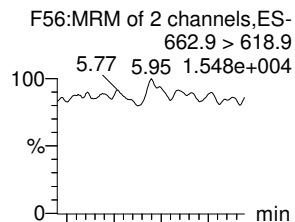
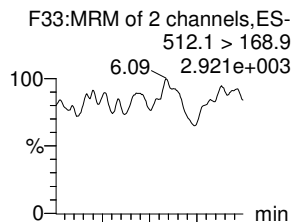
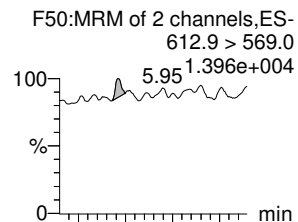
**N-MeFOSA**

**PFTrDA**

**PFTeDA**

**N-EtFOSA**

**PFHxDA**



**13C2-PFDoA**

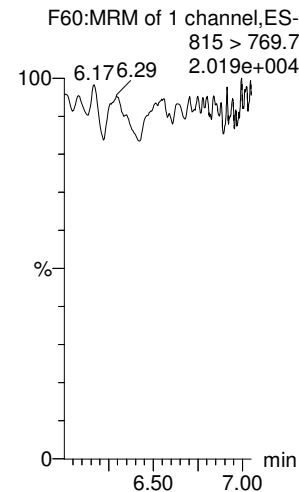
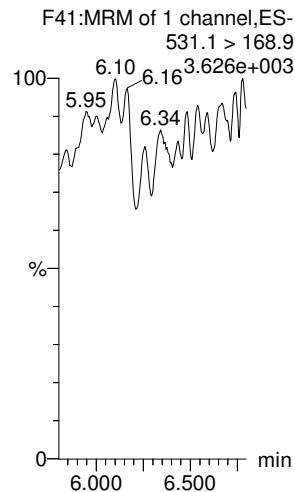
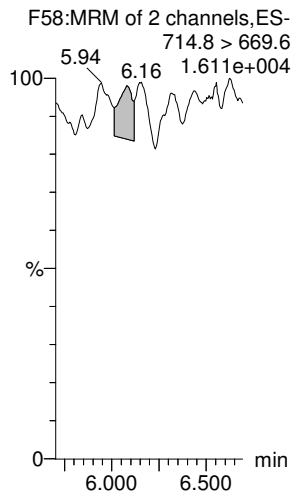
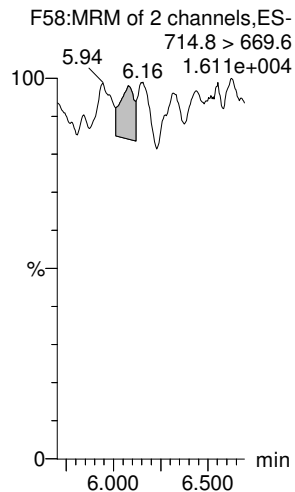
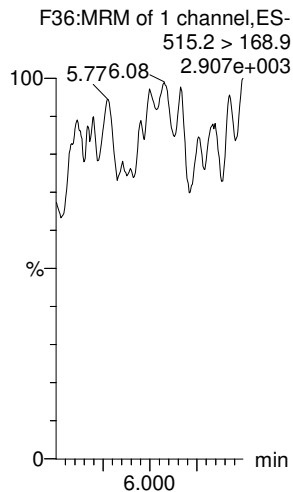
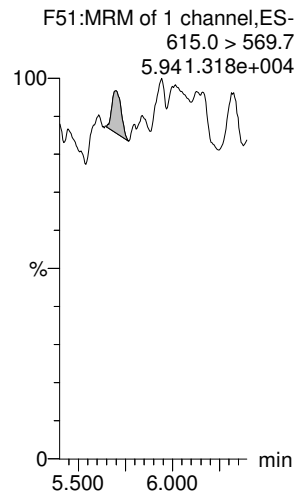
**d3-N-MeFOSA**

**13C2-PFTeDA**

**13C2-PFTeDA**

**d5-N-ETFOSA**

**13C2-PFHxDA**

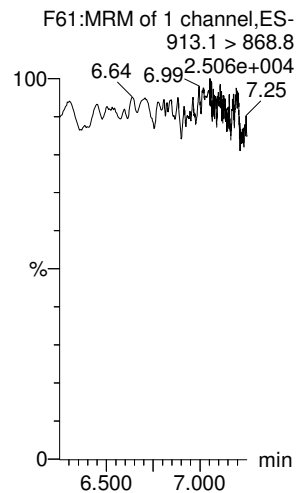


Dataset: U:\Q4.PRO\results\171223M1\171223M1-12.qld

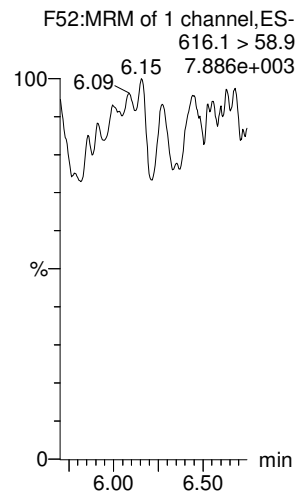
Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

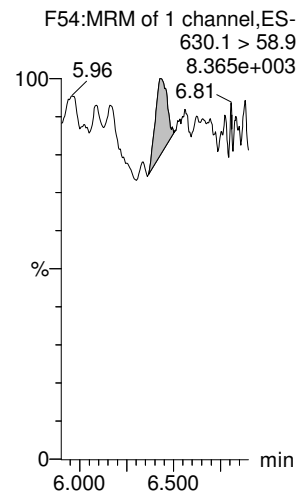
**PFODA**



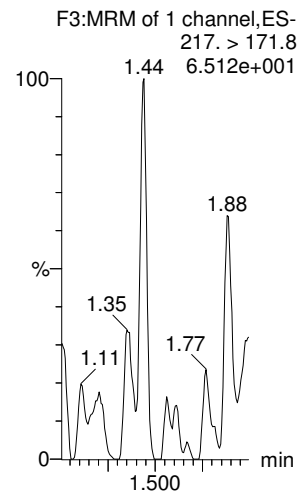
**N-MeFOSE**



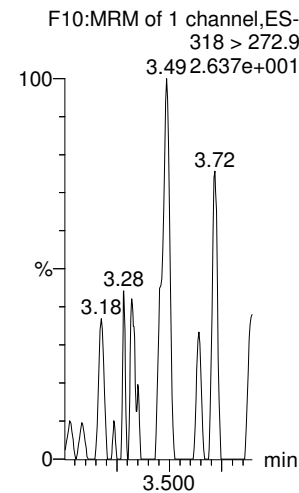
**N-EtFOSE**



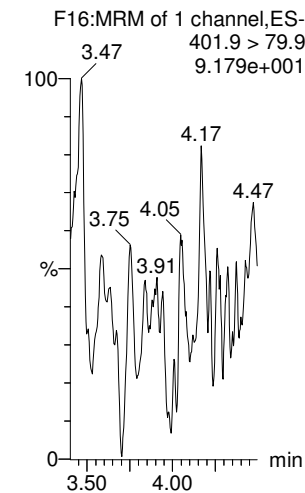
**13C4-PFBA**



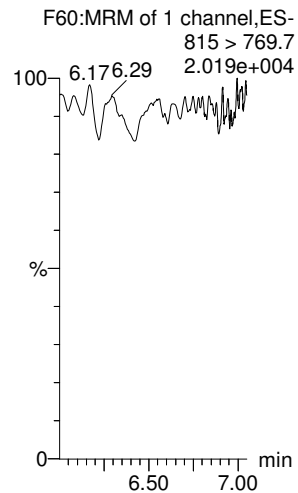
**13C5-PFHxA**



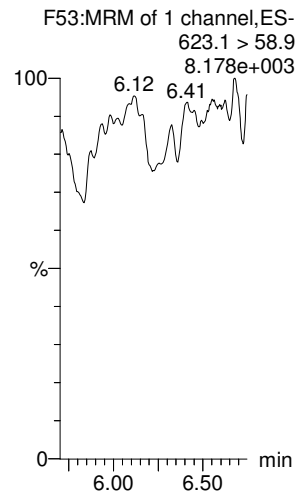
**13C3-PFHxS**



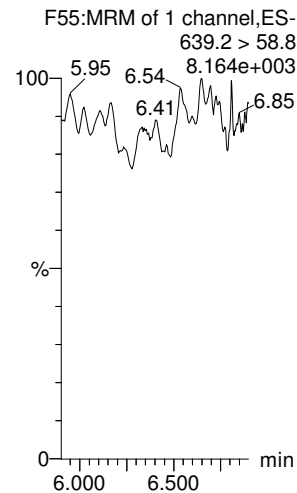
**13C2-PFHxDA**



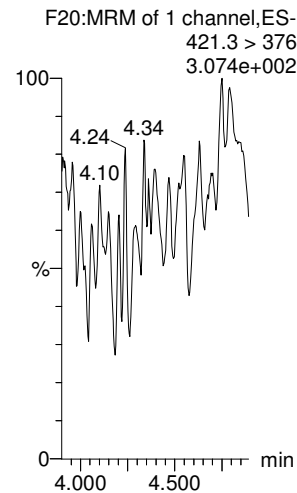
**d7-N-MeFOSE**



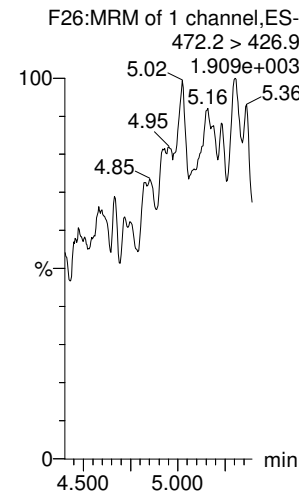
**d9-N-EtFOSE**



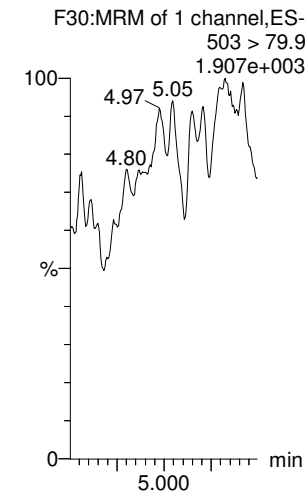
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



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

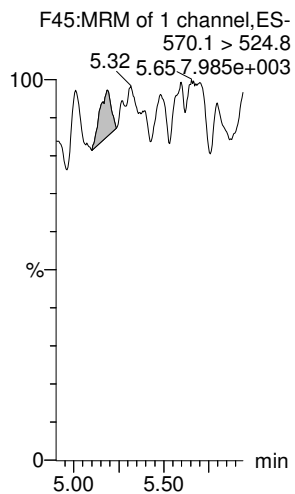
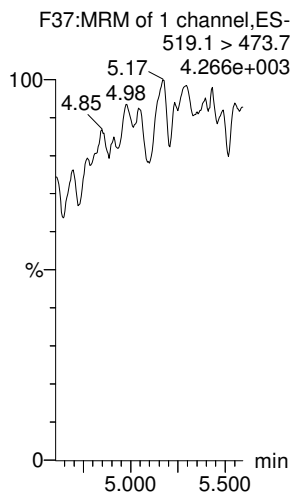
Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

13C6-PFDA

13C7-PFUdA



Ⓐ PFHxS, PFNA, PFOSA > 130%

Dataset: U:\Q4.PRO\results\171223M1\171223M1-45.qld

Last Altered: Tuesday, December 26, 2017 13:22:06 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:22:27 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\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

AC  
12/26/17

YJA.  
12/26/2017

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.47e3	9.41e3	1.0000		1.47	1.50	12.6	10.277	102.8
2	2 PFPeA	263.1 > 218.9	1.10e4	1.28e4	1.0000		2.44	2.46	10.7	9.993	99.9
3	3 PFBS	299.0 > 79.7	2.88e3	1.51e3	1.0000		2.70	2.73	23.7	10.950	109.5
4	4 PFHxA	313.2 > 268.9	1.48e4	4.52e3	1.0000		3.20	3.22	16.3	11.074	110.7
5	5 PFHpA	363.0 > 318.9	1.13e4	9.22e3	1.0000		3.80	3.84	15.3	9.792	97.9
6	6 L-PFHxS	398.9 > 79.6	2.29e3	1.19e3	1.0000		3.95	3.98	24.1	13.580	Ⓐ135.8
7	8 6:2 FTS	427.1 > 407	2.36e3	2.92e3	1.0000		4.26	4.29	10.1	9.075	90.7
8	9 L-PFOA	413 > 368.7	1.08e4	1.27e4	1.0000		4.32	4.35	10.6	10.219	102.2
9	11 PFHpS	449 > 80.0	2.88e3	1.27e4	1.0000		4.43	4.45	2.83	10.903	109.0
10	12 PFNA	463.0 > 418.8	1.65e4	1.15e4	1.0000		4.75	4.77	18.0	13.348	Ⓐ133.5
11	13 PFOSA	498.1 > 77.8	3.74e3	3.86e3	1.0000		4.81	4.83	12.1	13.501	Ⓢ135.0
12	14 L-PFOS	499 > 79.9	3.05e3	3.28e3	1.0000		4.83	4.85	11.6	10.599	106.0
13	16 PFDA	513 > 468.8	1.33e4	1.26e4	1.0000		5.11	5.14	13.2	7.738	77.4
14	17 8:2 FTS	527 > 506.9	2.57e3	1.87e3	1.0000		5.09	5.11	17.2	8.617	86.2
15	18 N-MeFOSAA	570.1 > 419	6.34e3	4.89e3	1.0000		5.26	5.29	16.2	7.662	76.6
16	19 N-EtFOSAA	584.2 > 419	5.22e3	6.37e3	1.0000		5.42	5.44	10.3	7.871	78.7
17	20 PFUDa	563.0 > 518.9	9.97e3	1.04e4	1.0000		5.43	5.46	11.9	9.738	97.4
18	21 PFDS	598.8 > 80	2.77e3	1.04e4	1.0000		5.50	5.50	3.31	9.839	98.4
19	22 PFDoA	612.9 > 569.0	1.55e4	6.55e3	1.0000		5.70	5.73	29.6	12.138	121.4
20	23 N-MeFOSA	512.1 > 168.9	7.83e3	1.87e4	1.0000		5.77	5.79	62.9	54.639	109.3
21	24 PFTrDA	662.9 > 618.9	1.42e4	6.64e3	1.0000		5.95	5.97	26.7	10.142	101.4
22	25 PFTeDA	712.9 > 668.8	8.94e3	6.64e3	1.0000		6.16	6.19	16.8	10.481	104.8
23	26 N-EtFOSA	526.1 > 168.9	1.03e4	3.03e4	1.0000		6.15	6.18	51.0	53.477	107.0
24	27 PFHxDA	813.1 > 768.6	4.63e3	3.83e3	1.0000		6.48	6.50	6.04	8.265	82.6
25	28 PFODA	913.1 > 868.8	5.83e3	3.83e3	1.0000		6.70	6.72	7.61	9.834	98.3
26	29 N-MeFOSE	616.1 > 58.9	1.01e4	2.75e4	1.0000		6.30	6.31	55.3	53.337	106.7
27	30 N-EtFOSE	630.1 > 58.9	1.14e4	2.80e4	1.0000		6.42	6.46	60.8	53.147	106.3
28	31 13C3-PFBA	216.1 > 171.8	9.41e3	1.10e4	1.0000	0.880	1.47	1.50	10.7	12.196	97.6
29	32 13C3-PFPeA	266. > 221.8	1.28e4	1.68e4	1.0000	0.826	2.44	2.46	9.50	11.505	92.0
30	33 13C3-PFBS	302. > 98.8	1.51e3	1.68e4	1.0000	0.106	2.70	2.73	1.13	10.625	85.0
31	34 13C2-PFHxA	315 > 269.8	4.52e3	1.68e4	1.0000	0.743	3.20	3.22	3.36	4.519	90.4

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Dataset: U:\Q4.PRO\results\171223M1\171223M1-45.qld

Last Altered: Tuesday, December 26, 2017 13:22:06 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:22:27 Pacific Standard Time

Name: 171223M1\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 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	9.22e3	1.68e4	1.0000	0.557	3.80	3.84	6.85	12.314	98.5
33	36	18O2-PFHxS	403.0 > 102.6	1.19e3	2.98e3	1.0000	0.433	3.95	3.98	4.99	11.527	92.2
34	37	13C2-6:2 FTS	429.1 > 408.9	2.92e3	1.14e4	1.0000	0.275	4.26	4.29	3.21	11.702	93.6
35	38	13C2-PFOA	414.9 > 369.7	1.27e4	1.14e4	1.0000	1.141	4.32	4.35	14.0	12.227	97.8
36	39	13C5-PFNA	468.2 > 422.9	1.15e4	1.18e4	1.0000	0.963	4.75	4.78	12.2	12.641	101.1
37	40	13C8-PFOSA	506.1 > 77.7	3.86e3	9.88e3	1.0000	0.373	4.81	4.83	4.88	13.065	104.5
38	41	13C8-PFOS	507.0 > 79.9	3.28e3	3.20e3	1.0000	1.075	4.83	4.85	12.8	11.925	95.4
39	42	13C2-PFDA	515.1 > 469.9	1.26e4	1.03e4	1.0000	1.213	5.11	5.14	15.2	12.535	100.3
40	43	13C2-8:2 FTS	529.1 > 508.7	1.87e3	1.68e4	1.0000	0.109	5.09	5.11	1.39	12.694	101.5
41	44	d3-N-MeFOSAA	573.3 > 419	4.89e3	9.88e3	1.0000	0.405	5.26	5.28	6.18	15.246	122.0
42	45	d5-N-EtFOSAA	589.3 > 419	6.37e3	9.88e3	1.0000	0.490	5.42	5.44	8.06	16.435	131.5
43	46	13C2-PFUdA	565 > 519.8	1.04e4	9.88e3	1.0000	1.154	5.43	5.46	13.2	11.441	91.5
44	47	13C2-PFDoA	615.0 > 569.7	6.55e3	9.88e3	1.0000	0.623	5.70	5.73	8.29	13.315	106.5
45	48	d3-N-MeFOSA	515.2 > 168.9	1.87e4	9.88e3	1.0000	0.146	5.80	5.81	23.6	162.148	108.1
46	49	13C2-PFTeDA	714.8 > 669.6	6.64e3	9.88e3	1.0000	0.706	6.16	6.18	8.40	11.901	95.2
47	50	d5-N-ETFOSA	531.1 > 168.9	3.03e4	9.88e3	1.0000	0.227	6.16	6.19	38.4	168.760	112.5
48	51	13C2-PFHxDA	815 > 769.7	3.83e3	9.88e3	1.0000	0.909	6.48	6.50	4.84	5.332	106.6
49	52	d7-N-MeFOSE	623.1 > 58.9	2.75e4	9.88e3	1.0000	0.213	6.30	6.30	34.8	163.205	108.8
50	53	d9-N-EtFOSE	639.2 > 58.8	2.80e4	9.88e3	1.0000	0.225	6.42	6.45	35.4	157.124	104.7
51	54	13C4-PFBA	217. > 171.8	1.10e4	1.10e4	1.0000	1.000	1.47	1.49	12.5	12.500	100.0
52	55	13C5-PFHxA	318 > 272.9	1.68e4	1.68e4	1.0000	1.000	3.20	3.22	12.5	12.500	100.0
53	56	13C3-PFHxS	401.9 > 79.9	2.98e3	2.98e3	1.0000	1.000	3.95	3.98	12.5	12.500	100.0
54	57	13C8-PFOA	421.3 > 376	1.14e4	1.14e4	1.0000	1.000	4.32	4.34	12.5	12.500	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.18e4	1.18e4	1.0000	1.000	4.75	4.78	12.5	12.500	100.0
56	59	13C4-PFOS	503 > 79.9	3.20e3	3.20e3	1.0000	1.000	4.83	4.85	12.5	12.500	100.0
57	60	13C6-PFDA	519.1 > 473.7	1.03e4	1.03e4	1.0000	1.000	5.11	5.14	12.5	12.500	100.0
58	61	13C7-PFUdA	570.1 > 524.8	9.88e3	9.88e3	1.0000	1.000	5.43	5.45	12.5	12.500	100.0

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Dataset: Untitled

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

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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317B.mdb 26 Dec 2017 13:06:55

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
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

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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

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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 <i>IC 12/26/17</i>	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 <i>AC 12/26/17</i>	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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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
100	171223M1_100	1701841-07 OF-EB-120117 0.12048	24-Dec-17	07:23:47
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	<del>1701837-08 MARTN-06-SB03-6-8 1</del>	24-Dec-17	09:37:55
113	171223M1_113	<del>1701837-09 MARTN-06-SB04-0-2-1</del>	24-Dec-17	09:49:06
114	171223M1_114	<del>1701837-10 MARTN-08-SB04-10-12 1</del>	24-Dec-17	10:00:17
115	171223M1_115	<del>1701837-11 MARTN-08-SB04-2-4-1</del>	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

Dataset: U:\Q4.PRO\results\171223M1\171223M1-45.qld

Last Altered: Tuesday, December 26, 2017 13:22:06 Pacific Standard Time

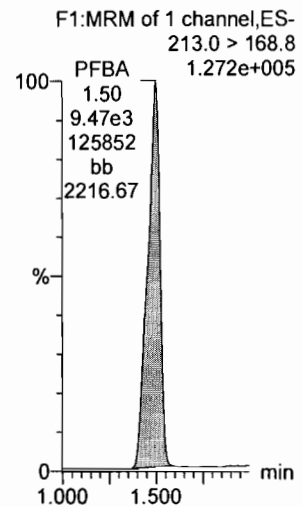
Printed: Tuesday, December 26, 2017 13:22:27 Pacific Standard Time

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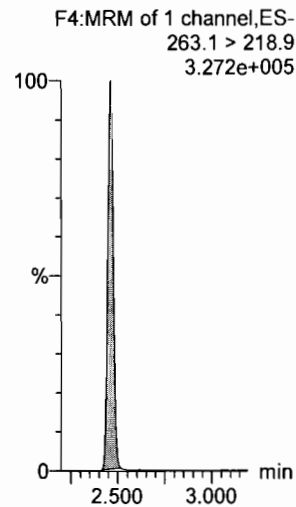
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-23-17\_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

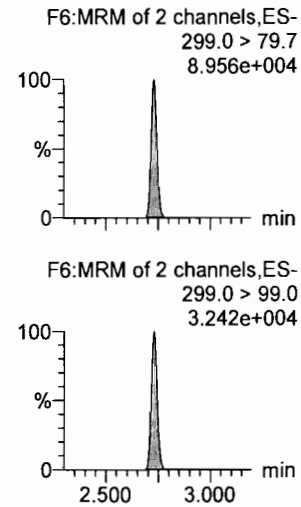
**PFBA**



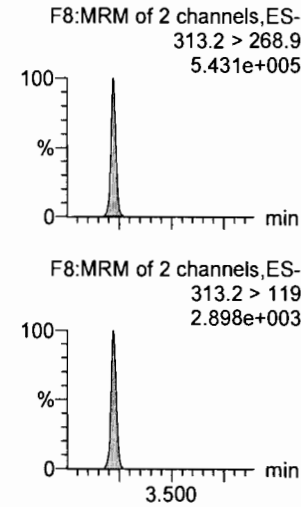
**PFPeA**



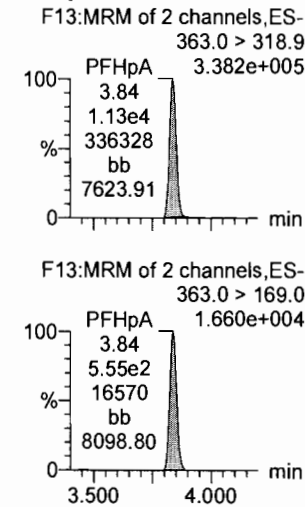
**PFBS**



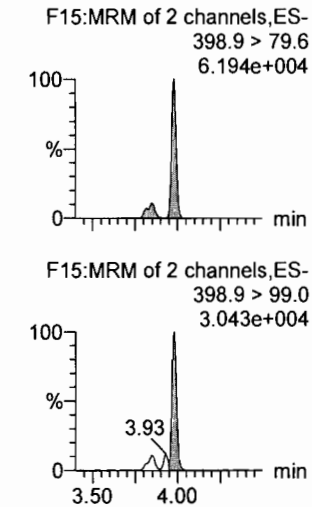
**PFHxA**



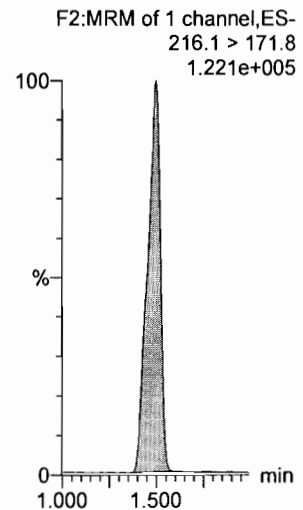
**PFHpA**



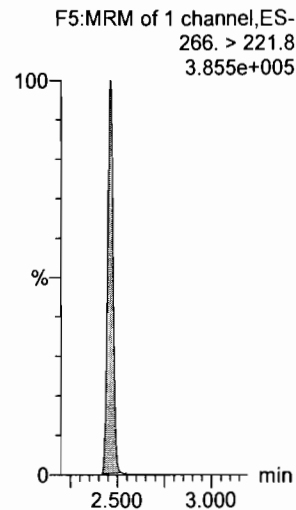
**L-PFHxS**



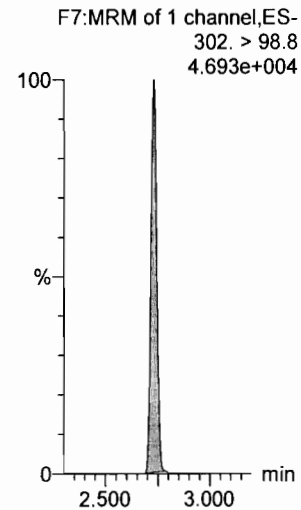
**13C3-PFBA**



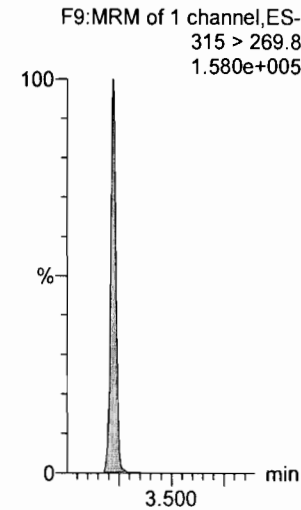
**13C3-PFPeA**



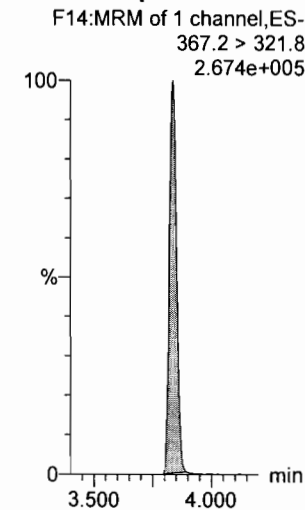
**13C3-PFBS**



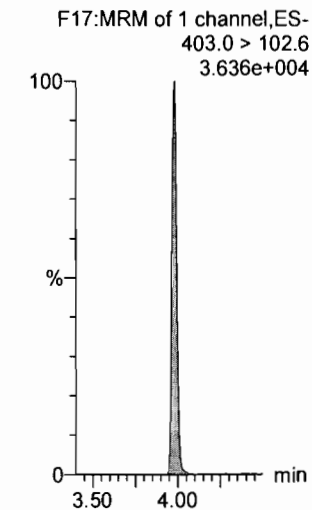
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-45.qld

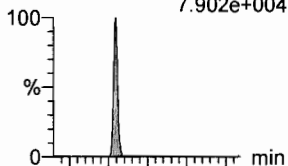
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Printed: Tuesday, December 26, 2017 13:22:27 Pacific Standard Time

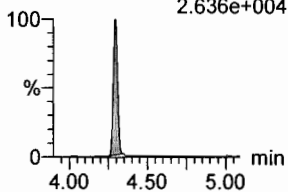
Name: 171223M1\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
7.902e+004

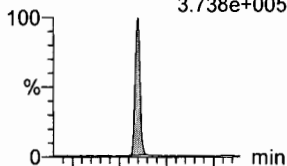


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.636e+004

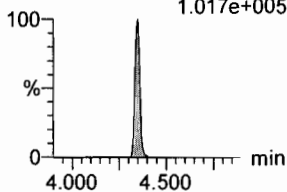


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
3.738e+005

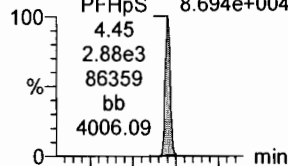


F18:MRM of 2 channels,ES-  
413 > 169  
1.017e+005

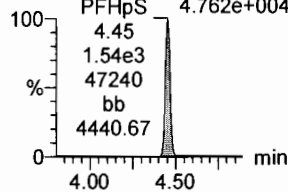


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
8.694e+004

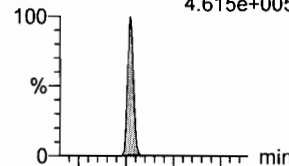


F23:MRM of 2 channels,ES-  
449 > 98.7  
4.762e+004

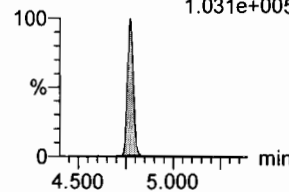


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.615e+005

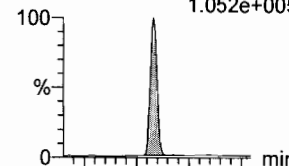


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.031e+005

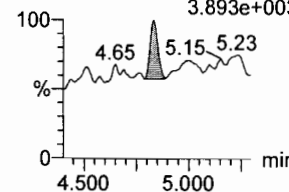


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.052e+005

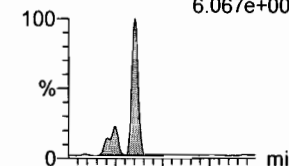


F27:MRM of 2 channels,ES-  
498.1 > 478  
3.893e+003

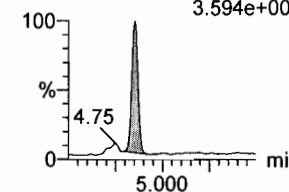


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
6.067e+004

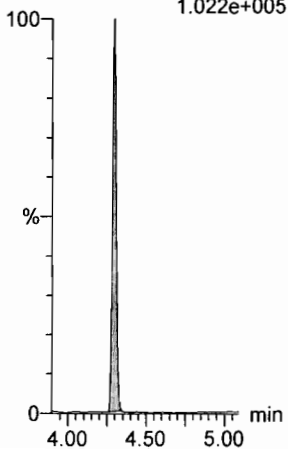


F29:MRM of 2 channels,ES-  
499 > 99  
3.594e+004



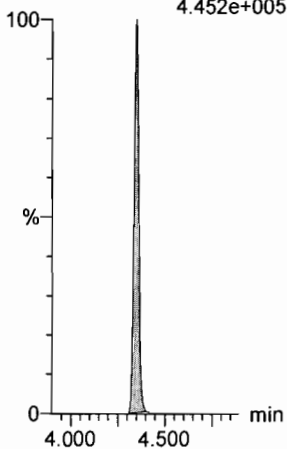
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.022e+005



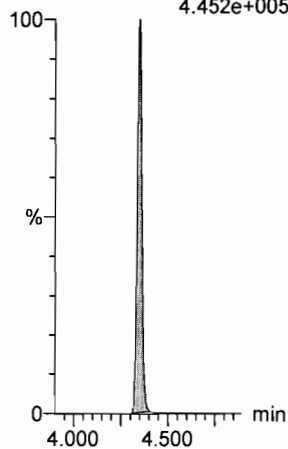
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.452e+005



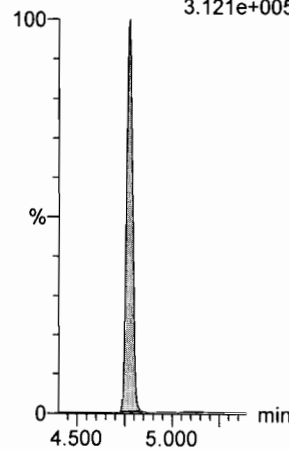
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.452e+005



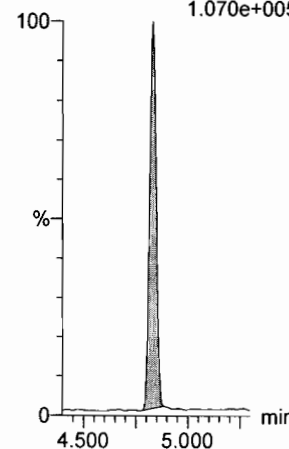
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.121e+005



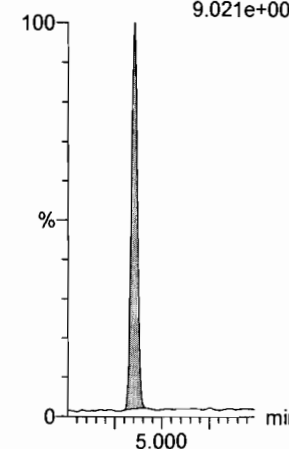
**13C8-PFOSA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
1.070e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.021e+004



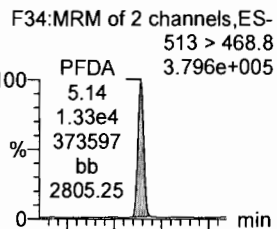
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Last Altered: Tuesday, December 26, 2017 13:22:06 Pacific Standard Time

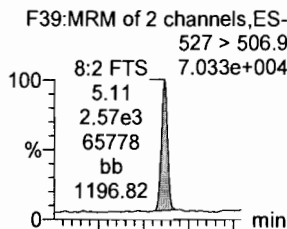
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Name: 171223M1\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

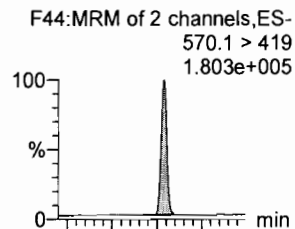
**PFDA**



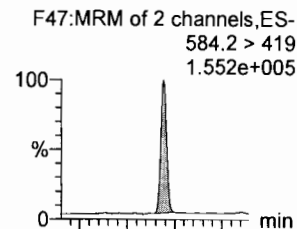
**8:2 FTS**



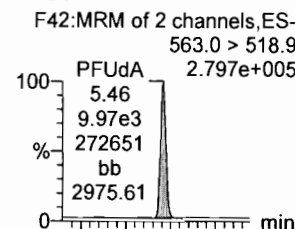
**N-MeFOSAA**



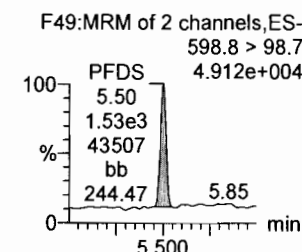
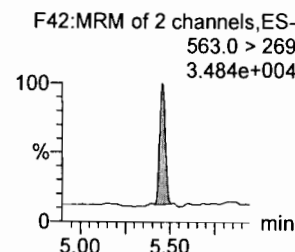
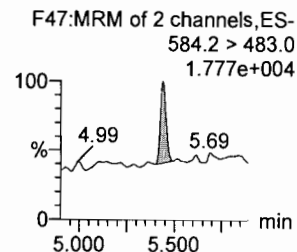
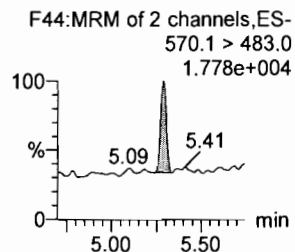
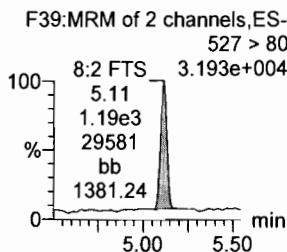
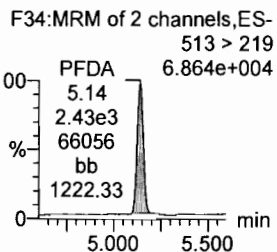
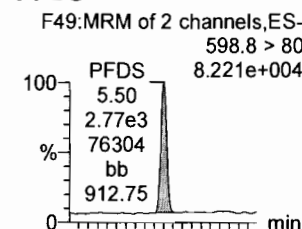
**N-EtFOSAA**



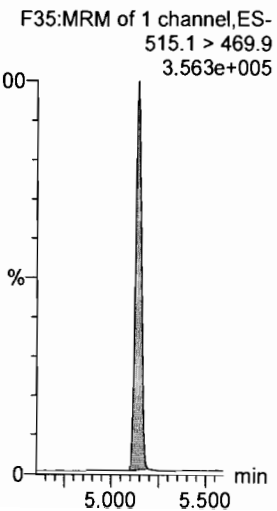
**PFUdA**



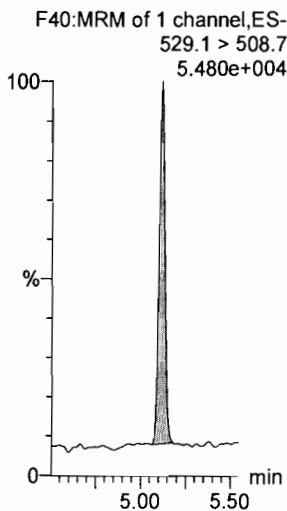
**PFDS**



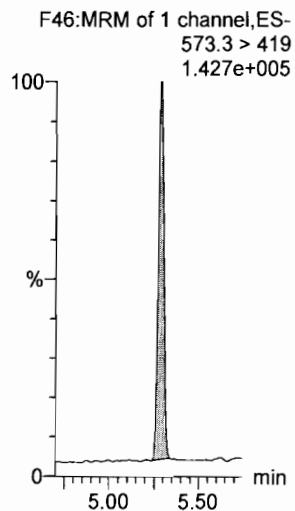
**13C2-PFDA**



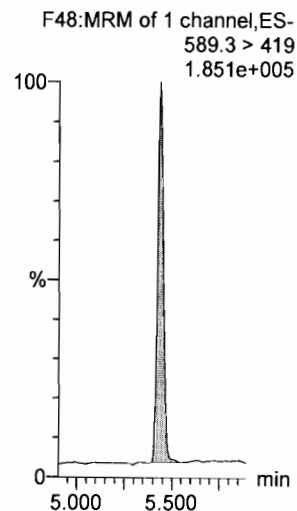
**13C2-8:2 FTS**



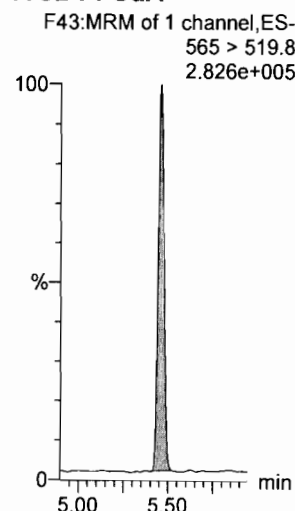
**d3-N-MeFOSAA**



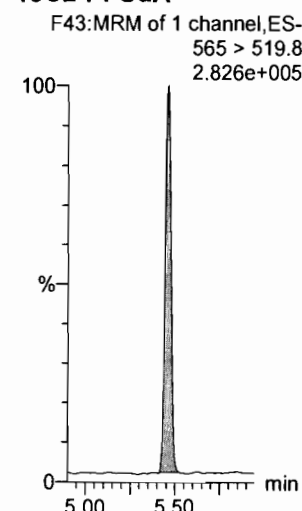
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-45.qld

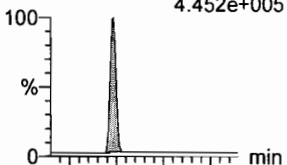
Last Altered: Tuesday, December 26, 2017 13:22:06 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:22:27 Pacific Standard Time

Name: 171223M1\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

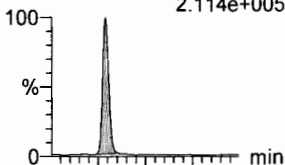
**PFDoA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
4.452e+005



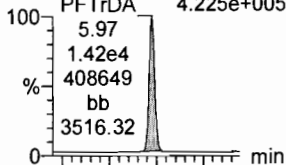
**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.114e+005



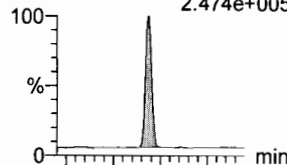
**PFTTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
4.225e+005



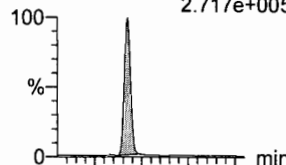
**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
2.474e+005



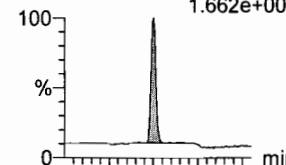
**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.717e+005

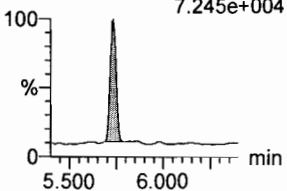


**PFHxDA**

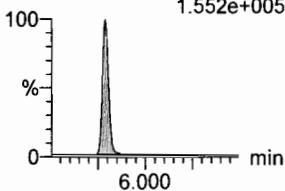
F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.662e+005



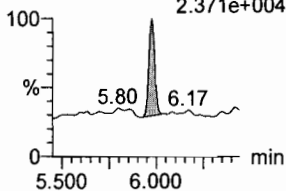
F50:MRM of 2 channels,ES-  
612.9 > 318.8  
7.245e+004



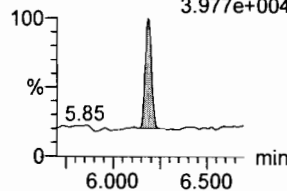
F33:MRM of 2 channels,ES-  
512.1 > 219  
1.552e+005



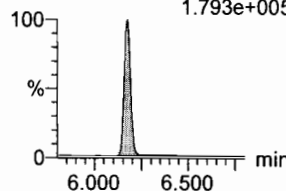
F56:MRM of 2 channels,ES-  
662.9 > 319  
2.371e+004



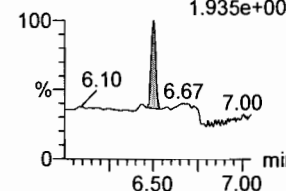
F57:MRM of 2 channels,ES-  
712.9 > 369  
3.977e+004



F38:MRM of 2 channels,ES-  
526.1 > 219  
1.793e+005

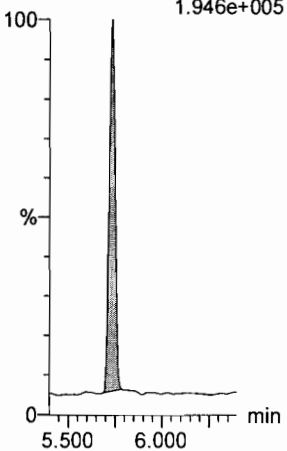


F59:MRM of 2 channels,ES-  
813.1 > 219  
1.935e+004



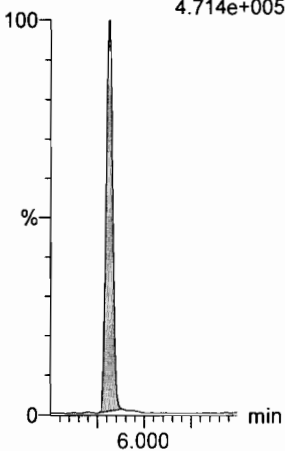
**13C2-PFDoA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
1.946e+005



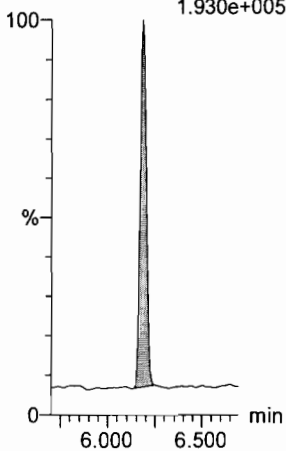
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
4.714e+005



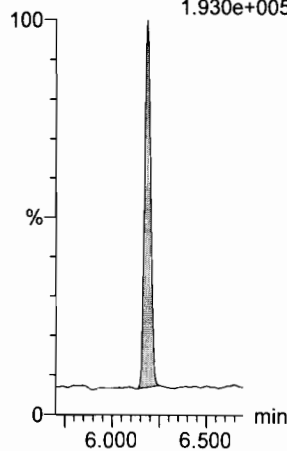
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
1.930e+005



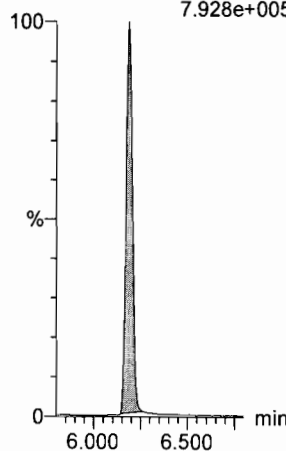
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
1.930e+005



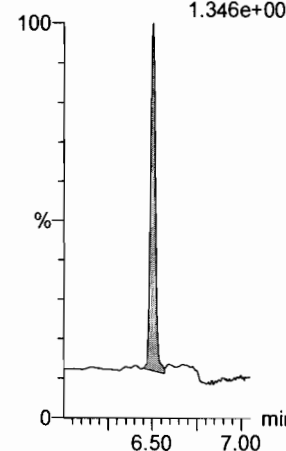
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
7.928e+005



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.346e+005





Dataset: U:\Q4.PRO\results\171223M1\171223M1-45.qld

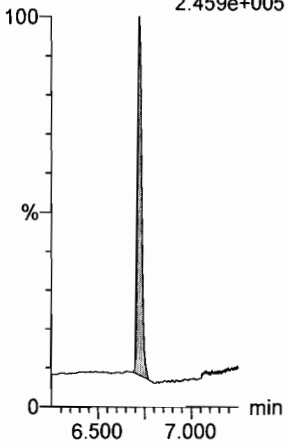
Last Altered: Tuesday, December 26, 2017 13:22:06 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:22:27 Pacific Standard Time

Name: 171223M1\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

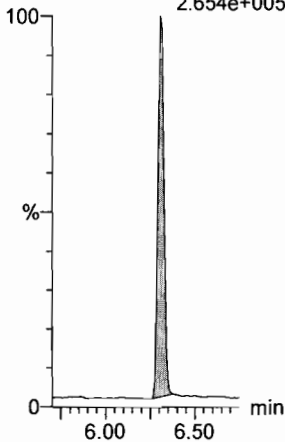
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
2.459e+005



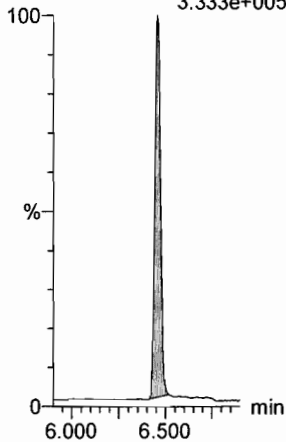
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.654e+005



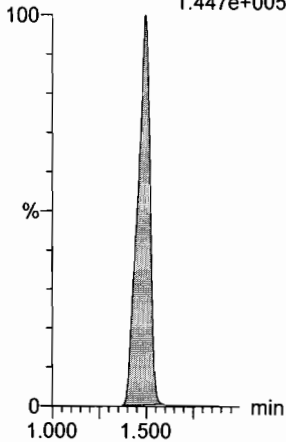
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.333e+005



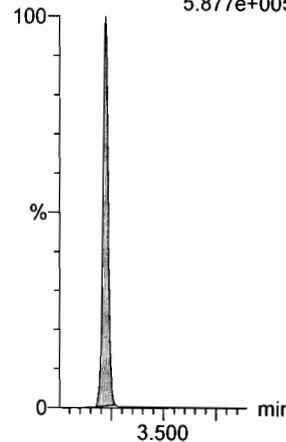
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.447e+005



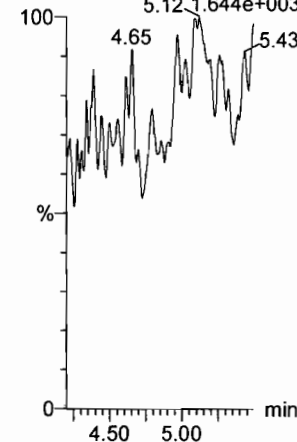
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
5.877e+005



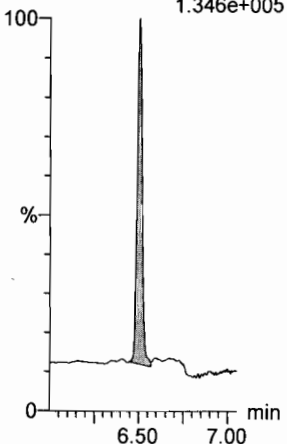
**TCDA**

F28:MRM of 3 channels,ES-  
498.3 > 106.9  
5.12-1.644e+003



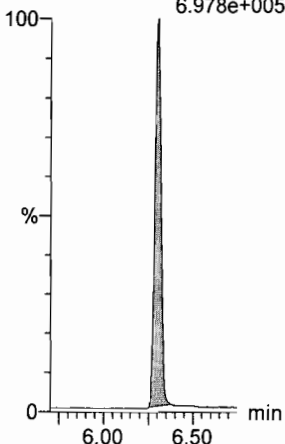
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.346e+005



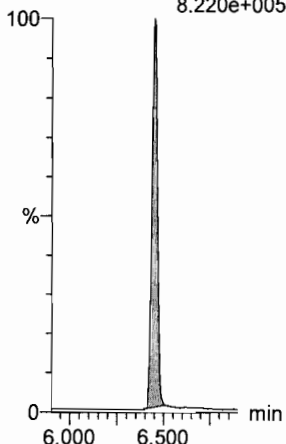
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
6.978e+005



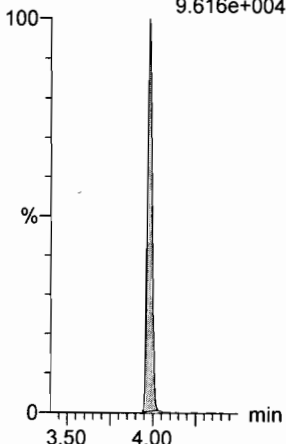
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
8.220e+005



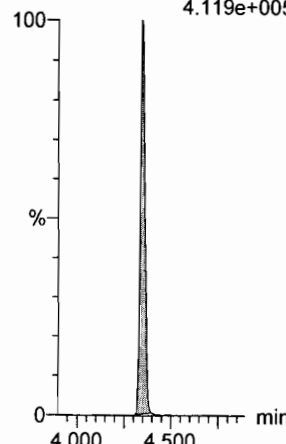
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
9.616e+004



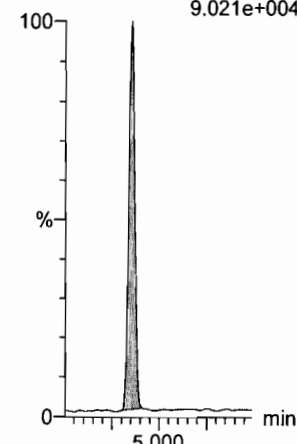
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
4.119e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.021e+004



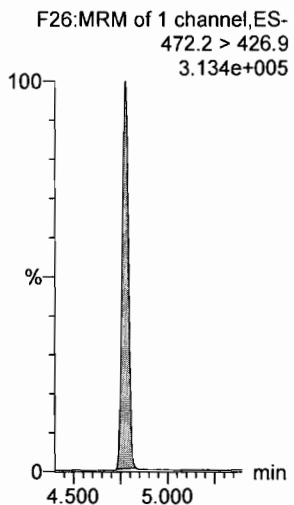
Dataset: U:\Q4.PRO\results\171223M1\171223M1-45.qld

Last Altered: Tuesday, December 26, 2017 13:22:06 Pacific Standard Time

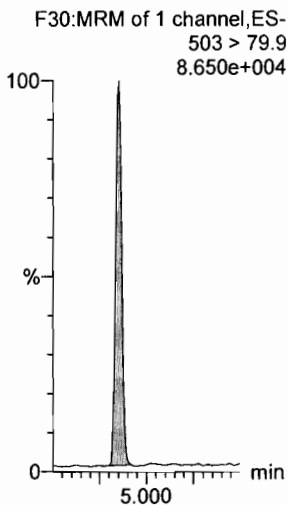
Printed: Tuesday, December 26, 2017 13:22:27 Pacific Standard Time

Name: 171223M1\_45, Date: 23-Dec-2017, Time: 21:08:56, ID: ST171223M1-12 PFC CS3 17L1207, Description: PFC CS3 17L1207

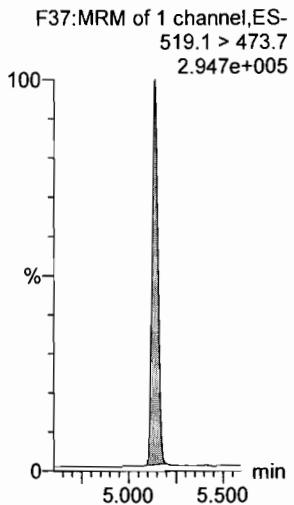
**13C9-PFNA**



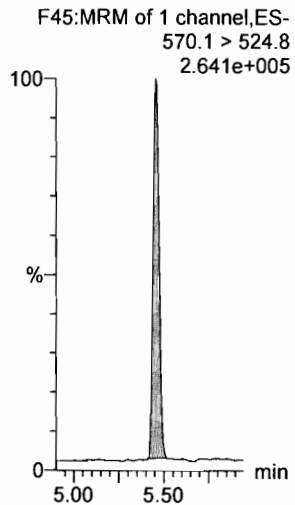
**13C4-PFOS**



**13C6-PFDA**



**13C7-PFUdA**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-65.qld

Last Altered: Tuesday, December 26, 2017 13:26:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:26:59 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\_65, Date: 24-Dec-2017, Time: 00:52:30, ID: ST171223M1-13 PFC CS0 17L1204, Description: PFC CS0 17L1204

AC  
12/26/17

JHA  
12/26/2017

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	8.62e2	9.89e3	1.0000		1.47	1.50	1.09	0.919	91.9
2	2 PFPeA	263.1 > 218.9	1.07e3	1.42e4	1.0000		2.44	2.46	0.938	0.937	93.7
3	3 PFBS	299.0 > 79.7	2.87e2	1.79e3	1.0000		2.70	2.73	2.01	0.960	96.0
4	4 PFHxA	313.2 > 268.9	1.43e3	5.28e3	1.0000		3.20	3.22	1.35	0.915	91.5
5	5 PFHpA	363.0 > 318.9	1.18e3	9.73e3	1.0000		3.80	3.84	1.52	1.070	107.0
6	6 L-PFHxS	398.9 > 79.6	2.39e2	1.36e3	1.0000		3.95	3.98	2.21	1.063	106.3
7	8 6:2 FTS	427.1 > 407	2.97e2	3.37e3	1.0000		4.26	4.29	1.10	1.109	110.9
8	9 L-PFOA	413 > 368.7	1.47e3	1.56e4	1.0000		4.32	4.35	1.18	0.968	96.8
9	11 PFHpS	449 > 80.0	3.12e2	1.56e4	1.0000		4.43	4.45	0.250	1.162	116.2
10	12 PFNA	463.0 > 418.8	1.23e3	1.02e4	1.0000		4.75	4.77	1.50	0.787	78.7
11	13 PFOSA	498.1 > 77.8	3.77e2	4.46e3	1.0000		4.81	4.83	1.05	1.052	105.2
12	14 L-PFOS	499 > 79.9	3.83e2	3.48e3	1.0000		4.83	4.85	1.38	1.266	126.6
13	16 PFDA	513 > 468.8	1.25e3	1.02e4	1.0000		5.11	5.14	1.54	1.065	106.5
14	17 8:2 FTS	527 > 506.9	2.91e2	2.19e3	1.0000		5.09	5.11	1.66	0.875	87.5
15	18 N-MeFOSAA	570.1 > 419	6.33e2	4.81e3	1.0000		5.26	5.29	1.64	0.825	82.5
16	19 N-EtFOSAA	584.2 > 419	4.31e2	5.19e3	1.0000		5.42	5.44	1.04	0.875	87.5
17	20 PFUdA	563.0 > 518.9	1.04e3	1.24e4	1.0000		5.43	5.45	1.05	0.992	99.2
18	21 PFDS	598.8 > 80	3.94e2	1.24e4	1.0000		5.50	5.50	0.398	1.083	108.3
19	22 PFDoA	612.9 > 569.0	1.29e3	7.58e3	1.0000		5.70	5.73	2.13	0.960	96.0
20	23 N-MeFOSA	512.1 > 168.9	8.01e2	1.92e4	1.0000		5.77	5.79	6.25	5.244	104.9
21	24 PFTrDA	662.9 > 618.9	1.31e3	7.69e3	1.0000		5.95	5.97	2.13	0.943	94.3
22	25 PFTeDA	712.9 > 668.8	1.13e3	7.69e3	1.0000		6.16	6.18	1.83	1.037	103.7
23	26 N-EtFOSA	526.1 > 168.9	9.45e2	3.06e4	1.0000		6.15	6.18	4.64	4.757	95.1
24	27 PFHxDA	813.1 > 768.6	6.29e2	4.41e3	1.0000		6.48	6.50	0.713	0.955	95.5
25	28 PFODA	913.1 > 868.8	6.44e2	4.41e3	1.0000		6.70	6.72	0.730	0.922	92.2
26	29 N-MeFOSE	616.1 > 58.9	1.01e3	2.26e4	1.0000		6.30	6.31	6.70	6.720	134.4
27	30 N-EtFOSE	630.1 > 58.9	1.35e3	2.59e4	1.0000		6.42	6.46	7.84	6.611	132.2
28	31 13C3-PFBA	216.1 > 171.8	9.89e3	1.11e4	1.0000	0.880	1.47	1.49	11.2	12.714	101.7
29	32 13C3-PFPeA	266. > 221.8	1.42e4	1.71e4	1.0000	0.826	2.44	2.46	10.4	12.599	100.8
30	33 13C3-PFBS	302. > 98.8	1.79e3	1.71e4	1.0000	0.106	2.70	2.73	1.31	12.337	98.7
31	34 13C2-PFHxA	315 > 269.8	5.28e3	1.71e4	1.0000	0.743	3.20	3.22	3.86	5.194	103.9

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50-150

Dataset: U:\Q4.PRO\results\171223M1\171223M1-65.qld

Last Altered: Tuesday, December 26, 2017 13:26:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:26:59 Pacific Standard Time

Name: 171223M1\_65, Date: 24-Dec-2017, Time: 00:52:30, ID: ST171223M1-13 PFC CS0 17L1204, Description: PFC CS0 17L1204

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	9.73e3	1.71e4	1.0000	0.557	3.80	3.84	7.12	12.795	102.4
33	36 18O2-PFHxS	403.0 > 102.6	1.36e3	3.20e3	1.0000	0.433	3.95	3.98	5.30	12.242	97.9
34	37 13C2-6:2 FTS	429.1 > 408.9	3.37e3	1.08e4	1.0000	0.275	4.26	4.29	3.89	14.180	113.4
35	38 13C2-PFOA	414.9 > 369.7	1.56e4	1.08e4	1.0000	1.141	4.32	4.35	18.0	15.812	126.5
36	39 13C5-PFNA	468.2 > 422.9	1.02e4	1.20e4	1.0000	0.963	4.75	4.77	10.7	11.123	89.0
37	40 13C8-PFOSA	506.1 > 77.7	4.46e3	1.26e4	1.0000	0.373	4.81	4.83	4.44	11.884	95.1
38	41 13C8-PFOS	507.0 > 79.9	3.48e3	3.46e3	1.0000	1.075	4.83	4.85	12.6	11.700	93.6
39	42 13C2-PFDA	515.1 > 469.9	1.02e4	9.80e3	1.0000	1.213	5.11	5.14	13.0	10.682	85.5
40	43 13C2-8:2 FTS	529.1 > 508.7	2.19e3	1.71e4	1.0000	0.109	5.09	5.11	1.60	14.628	117.0
41	44 d3-N-MeFOSAA	573.3 > 419	4.81e3	1.26e4	1.0000	0.405	5.26	5.28	4.79	11.807	94.5
42	45 d5-N-EiFOSAA	589.3 > 419	5.19e3	1.26e4	1.0000	0.490	5.42	5.44	5.16	10.531	84.2
43	46 13C2-PFUdA	565 > 519.8	1.24e4	1.26e4	1.0000	1.154	5.43	5.45	12.3	10.662	85.3
44	47 13C2-PFDoA	615.0 > 569.7	7.58e3	1.26e4	1.0000	0.623	5.70	5.73	7.54	12.111	96.9
45	48 d3-N-MeFOSA	515.2 > 168.9	1.92e4	1.26e4	1.0000	0.146	5.80	5.81	19.1	131.206	87.5
46	49 13C2-PFTeDA	714.8 > 669.6	7.69e3	1.26e4	1.0000	0.706	6.16	6.18	7.65	10.837	86.7
47	50 d5-N-ETFOSA	531.1 > 168.9	3.06e4	1.26e4	1.0000	0.227	6.16	6.19	30.4	133.724	89.1
48	51 13C2-PFHxDA	815 > 769.7	4.41e3	1.26e4	1.0000	0.909	6.48	6.50	4.39	4.827	96.5
49	52 d7-N-MeFOSE	623.1 > 58.9	2.26e4	1.26e4	1.0000	0.213	6.30	6.30	22.5	105.604	70.4
50	53 d9-N-EiFOSE	639.2 > 58.8	2.59e4	1.26e4	1.0000	0.225	6.42	6.45	25.7	114.158	76.1
51	54 13C4-PFBA	217. > 171.8	1.11e4	1.11e4	1.0000	1.000	1.47	1.49	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.71e4	1.71e4	1.0000	1.000	3.20	3.22	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.20e3	3.20e3	1.0000	1.000	3.95	3.98	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.08e4	1.08e4	1.0000	1.000	4.32	4.35	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.20e4	1.20e4	1.0000	1.000	4.75	4.77	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.46e3	3.46e3	1.0000	1.000	4.83	4.85	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	9.80e3	9.80e3	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	5.45	12.5	12.500	100.0

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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

	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
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

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

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

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Last Altered: Tuesday, December 26, 2017 14:28:59 Pacific Standard Time  
 Printed: Tuesday, December 26, 2017 14:31:05 Pacific Standard Time

Compound name: PFBA

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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

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

Compound name: PFBA

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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	<del>1701837-08 MARTN-06-SB03-6-8 1</del>	24-Dec-17	09:37:55
113	171223M1_113	<del>1701837-09 MARTN-06-SB04-0-2 1</del>	24-Dec-17	09:49:06
114	171223M1_114	<u>1701837-10 MARTN-08-SB04-10-12 1</u>	24-Dec-17	10:00:17
115	171223M1_115	<del>1701837-11 MARTN-08-SB04-2-4 1</del>	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 13:26:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:26:59 Pacific Standard Time

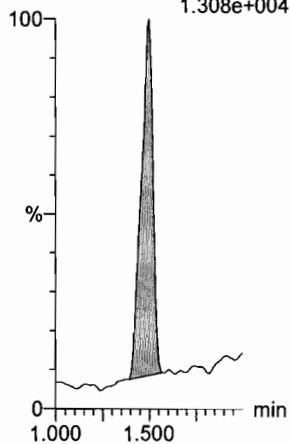
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Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-23-17\_NEWIS.cdb 26 Dec 2017 11:59:16

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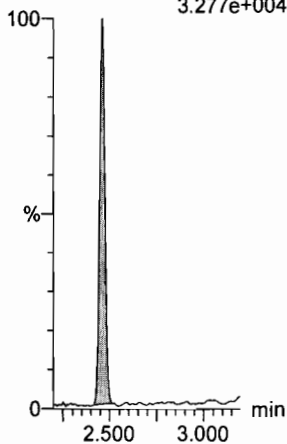
**PFBA**

F1:MRM of 1 channel,ES-  
213.0 > 168.8  
1.308e+004



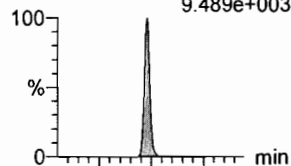
**PFPeA**

F4:MRM of 1 channel,ES-  
263.1 > 218.9  
3.277e+004

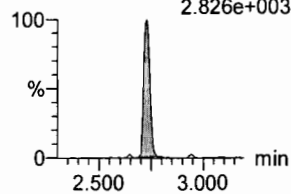


**PFBS**

F6:MRM of 2 channels,ES-  
299.0 > 79.7  
9.489e+003

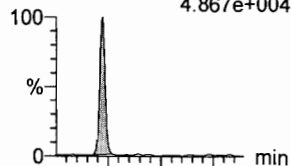


F6:MRM of 2 channels,ES-  
299.0 > 99.0  
2.826e+003

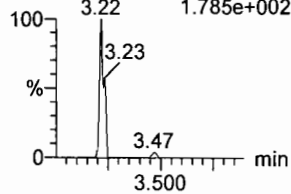


**PFHxA**

F8:MRM of 2 channels,ES-  
313.2 > 268.9  
4.867e+004

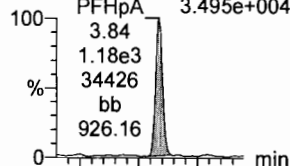


F8:MRM of 2 channels,ES-  
313.2 > 119  
1.785e+002

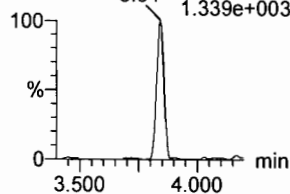


**PFHpA**

F13:MRM of 2 channels,ES-  
363.0 > 318.9  
3.495e+004

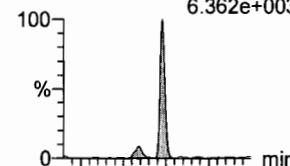


F13:MRM of 2 channels,ES-  
363.0 > 169.0  
1.339e+003

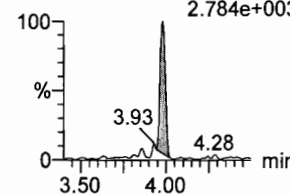


**L-PFHxS**

F15:MRM of 2 channels,ES-  
398.9 > 79.6  
6.362e+003

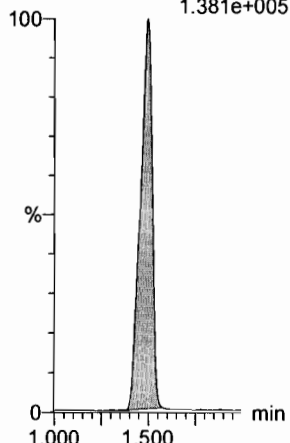


F15:MRM of 2 channels,ES-  
398.9 > 99.0  
2.784e+003



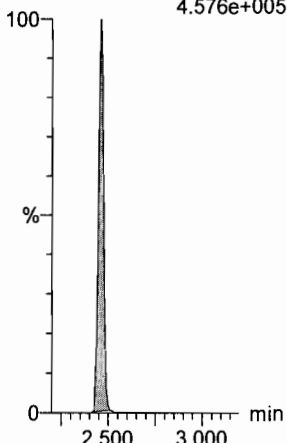
**13C3-PFBA**

F2:MRM of 1 channel,ES-  
216.1 > 171.8  
1.381e+005



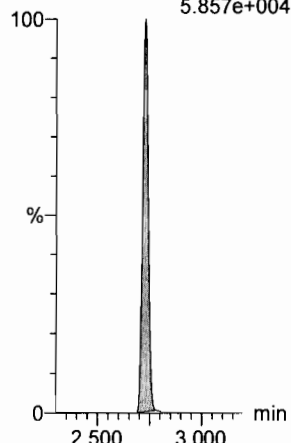
**13C3-PFPeA**

F5:MRM of 1 channel,ES-  
266. > 221.8  
4.576e+005



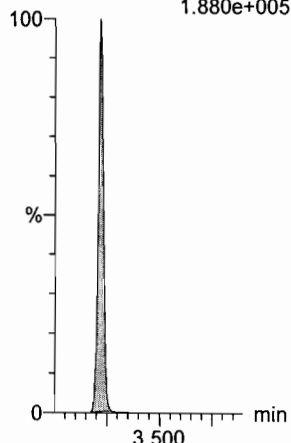
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
5.857e+004



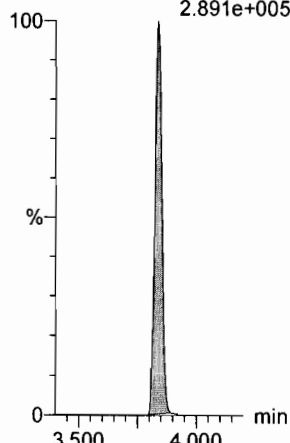
**13C2-PFHxA**

F9:MRM of 1 channel,ES-  
315 > 269.8  
1.880e+005



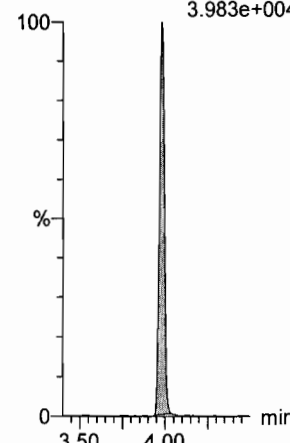
**13C4-PFHpA**

F14:MRM of 1 channel,ES-  
367.2 > 321.8  
2.891e+005



**18O2-PFHxS**

F17:MRM of 1 channel,ES-  
403.0 > 102.6  
3.983e+004



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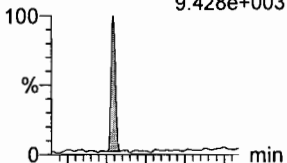
Last Altered: Tuesday, December 26, 2017 13:26:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:26:59 Pacific Standard Time

Name: 171223M1\_65, Date: 24-Dec-2017, Time: 00:52:30, ID: ST171223M1-13 PFC CS0 17L1204, Description: PFC CS0 17L1204

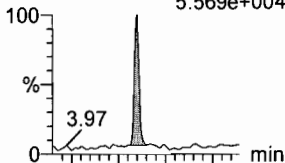
**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
9.428e+003



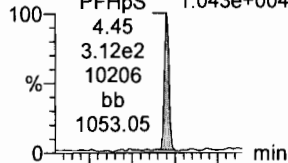
**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
5.569e+004



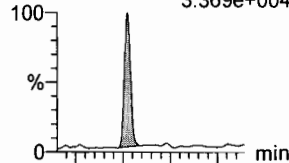
**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.043e+004



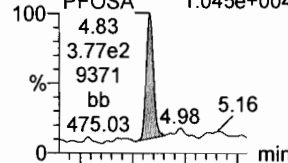
**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
3.369e+004



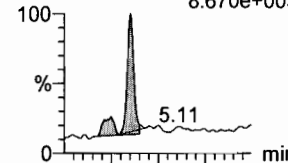
**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.045e+004

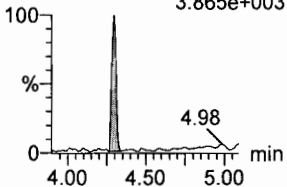


**L-PFOS**

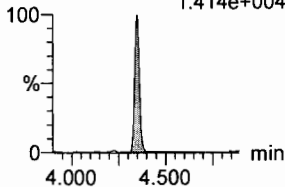
F29:MRM of 2 channels,ES-  
499 > 79.9  
8.670e+003



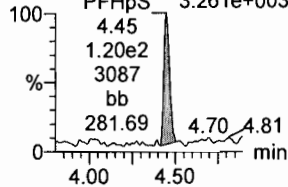
F21:MRM of 2 channels,ES-  
427.1 > 80  
3.865e+003



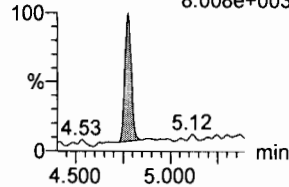
F18:MRM of 2 channels,ES-  
413 > 169  
1.414e+004



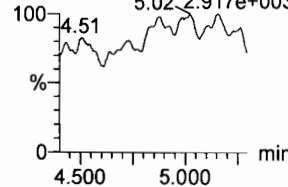
F23:MRM of 2 channels,ES-  
449 > 98.7  
3.261e+003



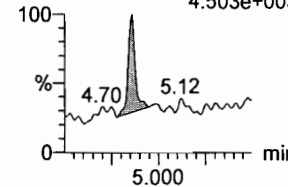
F24:MRM of 2 channels,ES-  
463.0 > 219.0  
8.008e+003



F27:MRM of 2 channels,ES-  
498.1 > 478  
2.917e+003

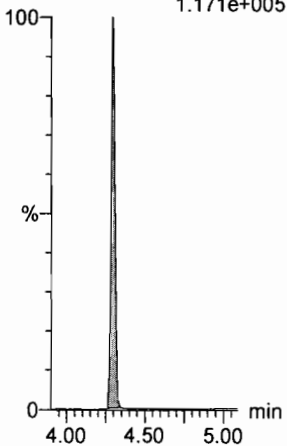


F29:MRM of 2 channels,ES-  
499 > 99  
4.503e+003



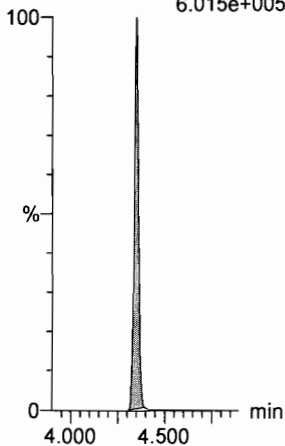
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.171e+005



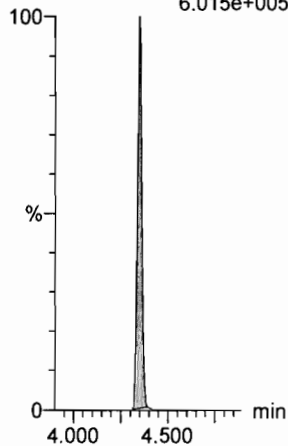
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
6.015e+005



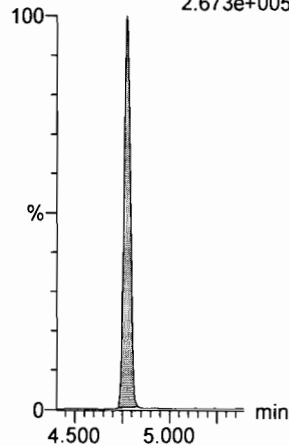
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
6.015e+005



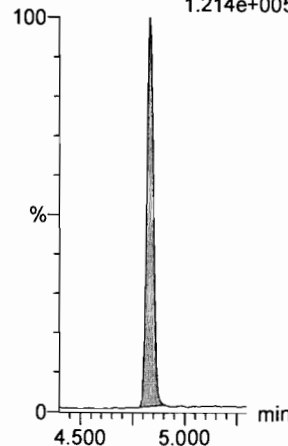
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.673e+005



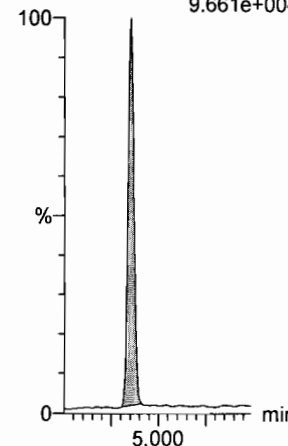
**13C8-PFOSA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
1.214e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.661e+004



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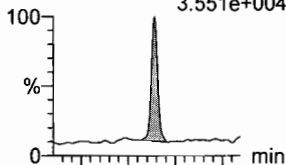
Last Altered: Tuesday, December 26, 2017 13:26:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:26:59 Pacific Standard Time

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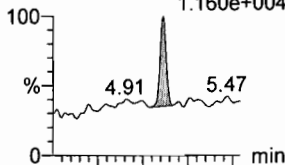
**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
3.551e+004



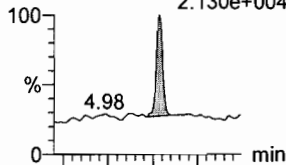
**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
1.160e+004



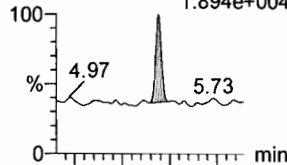
**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
2.130e+004



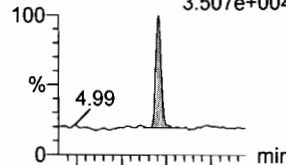
**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.894e+004



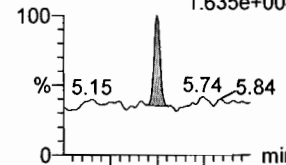
**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
3.507e+004

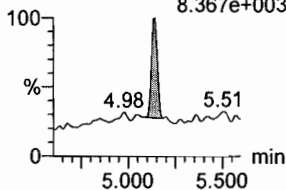


**PFDS**

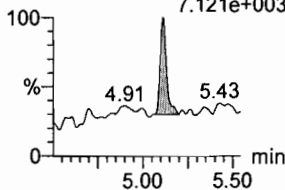
F49:MRM of 2 channels,ES-  
598.8 > 80  
1.635e+004



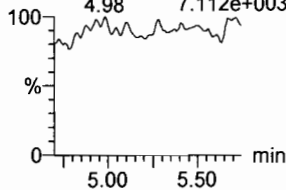
F34:MRM of 2 channels,ES-  
513 > 219  
8.367e+003



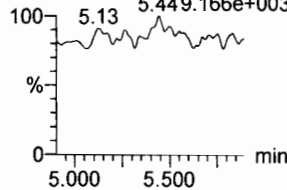
F39:MRM of 2 channels,ES-  
527 > 80  
7.121e+003



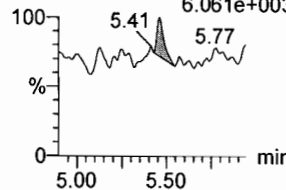
F44:MRM of 2 channels,ES-  
570.1 > 483.0  
7.112e+003



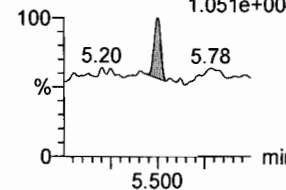
F47:MRM of 2 channels,ES-  
584.2 > 483.0  
5.449.166e+003



F42:MRM of 2 channels,ES-  
563.0 > 269  
6.061e+003

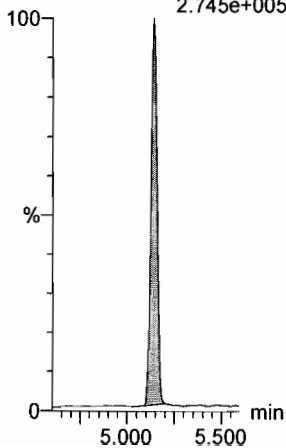


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
1.051e+004



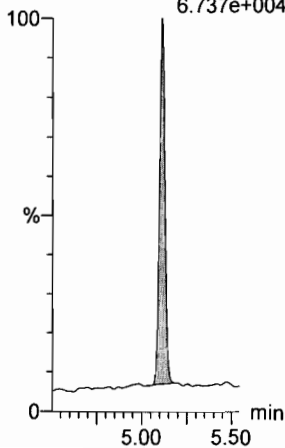
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.745e+005



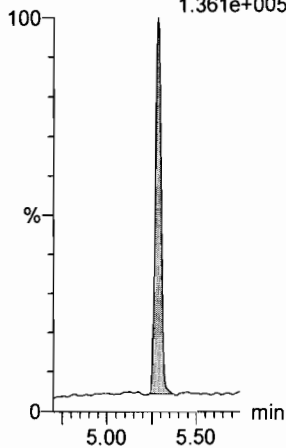
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
6.737e+004



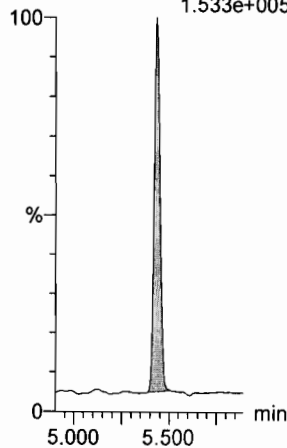
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.361e+005



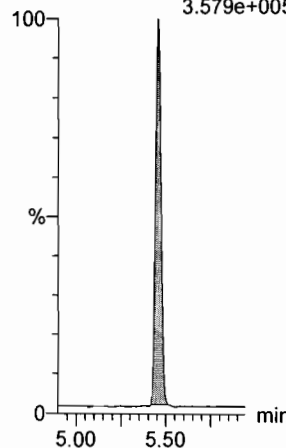
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.533e+005



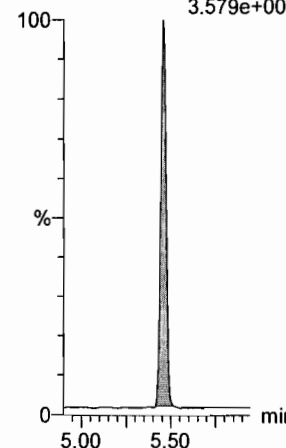
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.579e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.579e+005

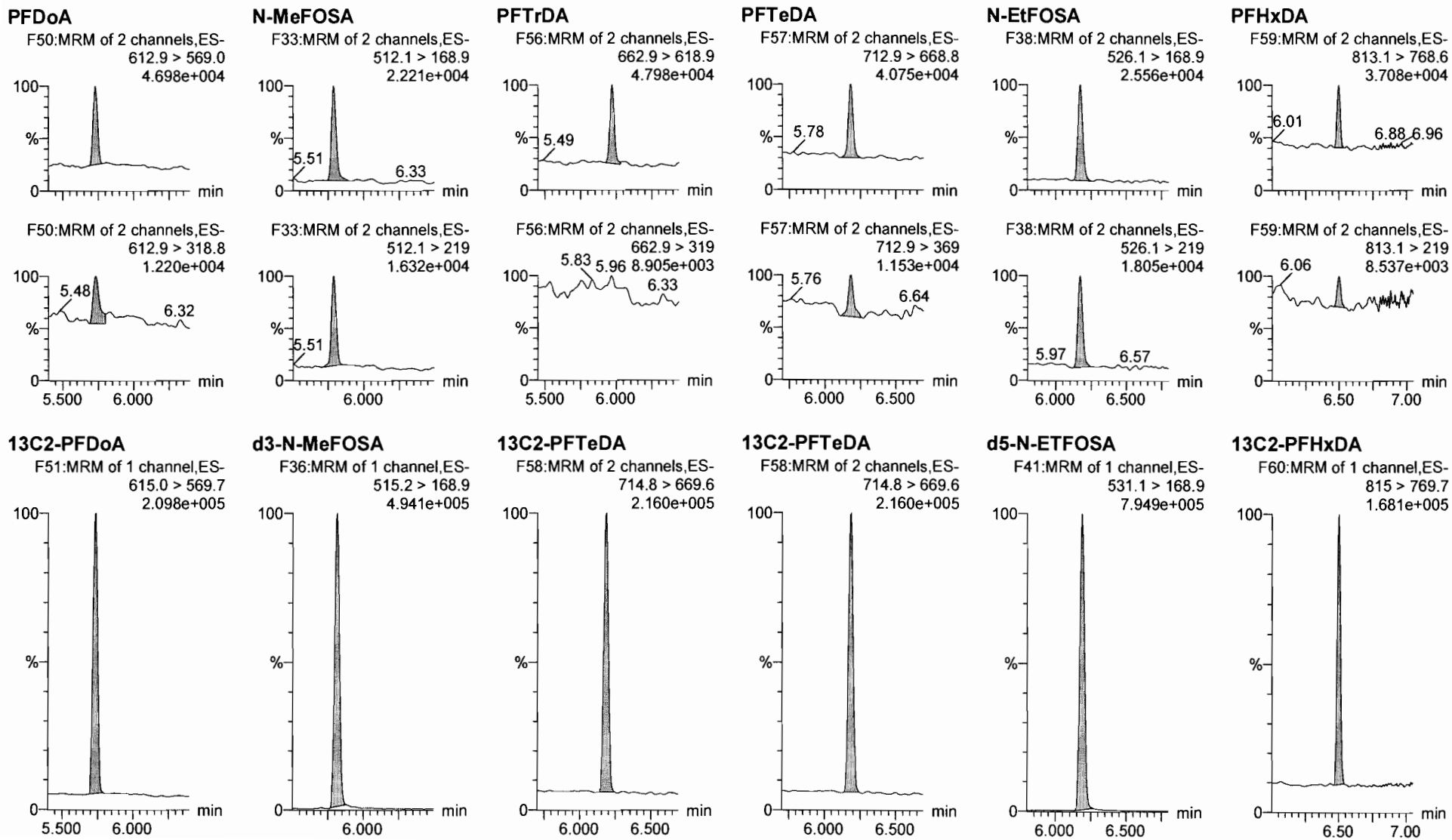


Dataset: U:\Q4.PRO\results\171223M1\171223M1-65.qld

Last Altered: Tuesday, December 26, 2017 13:26:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:26:59 Pacific Standard Time

Name: 171223M1\_65, Date: 24-Dec-2017, Time: 00:52:30, ID: ST171223M1-13 PFC CS0 17L1204, Description: PFC CS0 17L1204



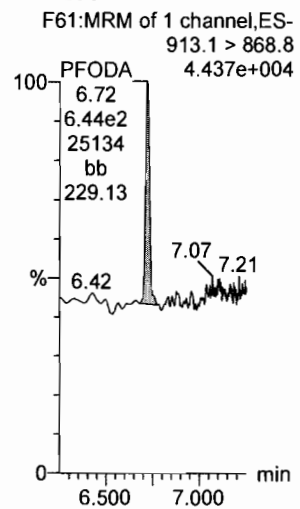
Dataset: U:\Q4.PRO\results\171223M1\171223M1-65.qld

Last Altered: Tuesday, December 26, 2017 13:26:30 Pacific Standard Time

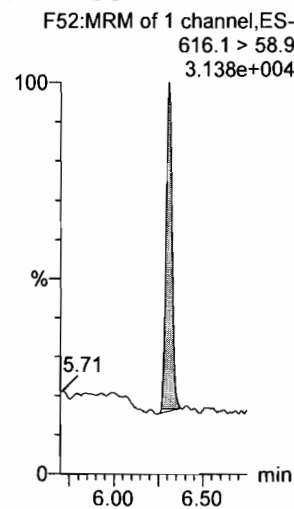
Printed: Tuesday, December 26, 2017 13:26:59 Pacific Standard Time

Name: 171223M1\_65, Date: 24-Dec-2017, Time: 00:52:30, ID: ST171223M1-13 PFC CS0 17L1204, Description: PFC CS0 17L1204

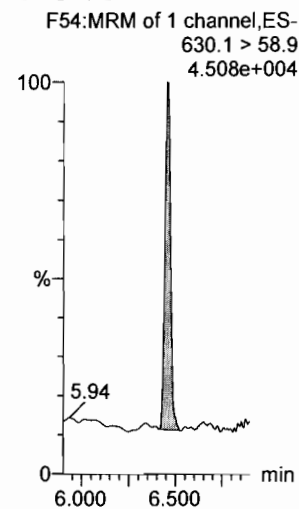
**PFODA**



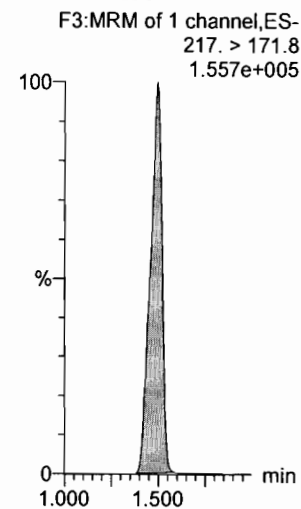
**N-MeFOSE**



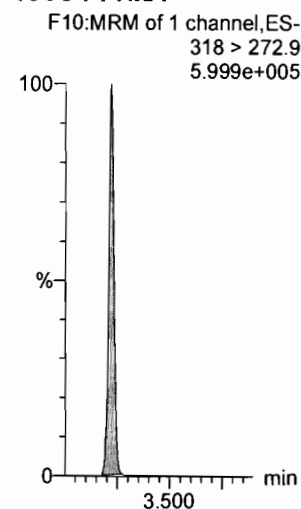
**N-EtFOSE**



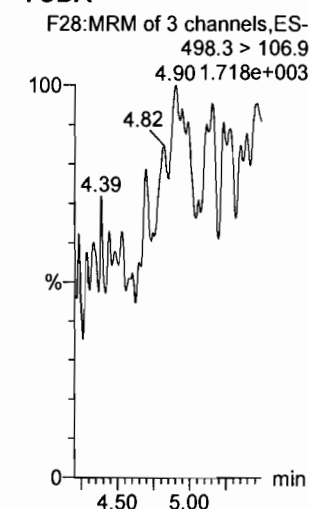
**13C4-PFBA**



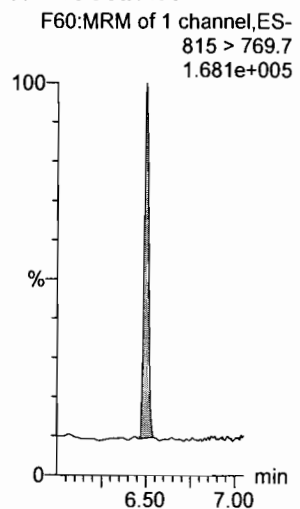
**13C5-PFHxA**



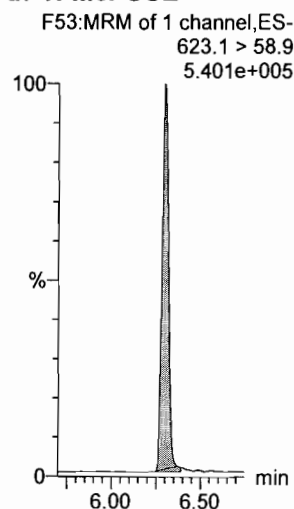
**TCDA**



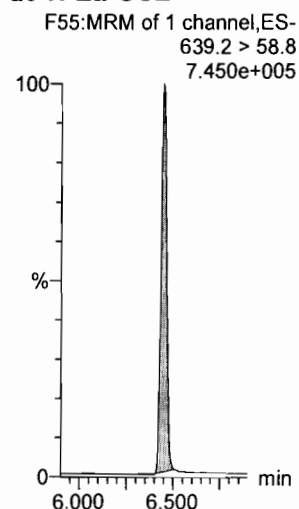
**13C2-PFHxDA**



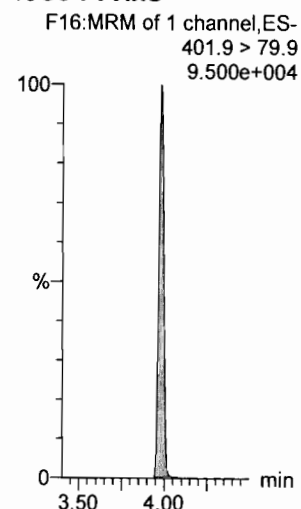
**d7-N-MeFOSE**



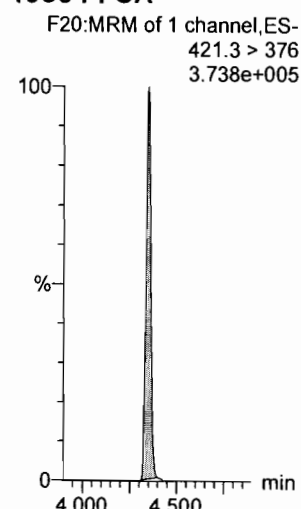
**d9-N-EtFOSE**



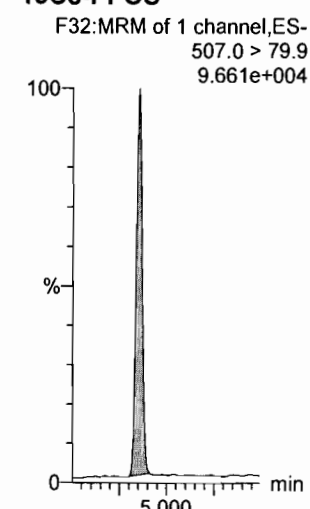
**13C3-PFHxS**



**13C8-PFOA**



**13C8-PFOS**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-65.qld

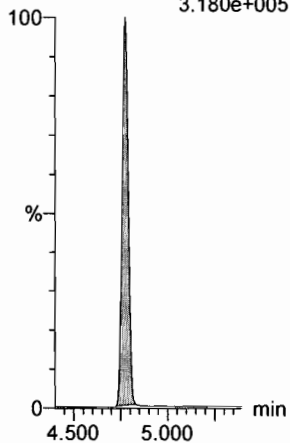
Last Altered: Tuesday, December 26, 2017 13:26:30 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:26:59 Pacific Standard Time

Name: 171223M1\_65, Date: 24-Dec-2017, Time: 00:52:30, ID: ST171223M1-13 PFC CS0 17L1204, Description: PFC CS0 17L1204

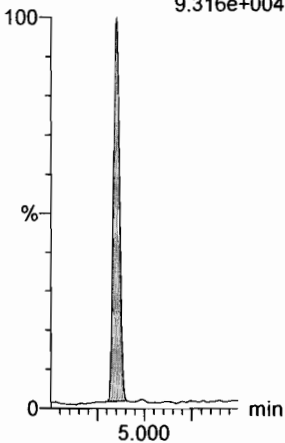
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.180e+005



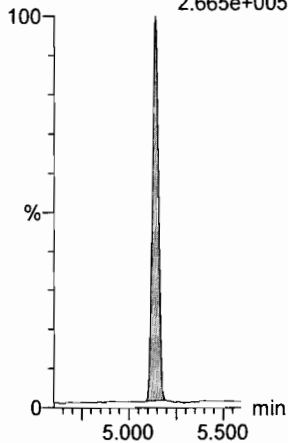
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
9.316e+004



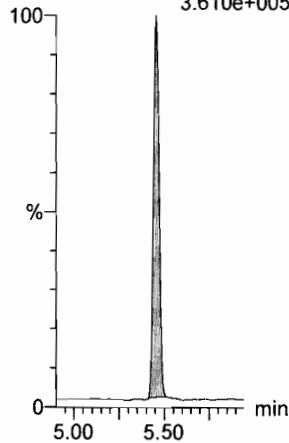
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.665e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.610e+005



Dataset: U:\Q4.PRO\results\171223M1\171223M1-77.qld

Last Altered: Tuesday, December 26, 2017 13:35:12 Pacific Standard Time  
 Printed: Tuesday, December 26, 2017 13:35:47 Pacific Standard Time

(A) 8:2 FTS > 150%  
 (B) PFDoA < 70%, not used.

AC  
 12/26/17  
 J.A.  
 12/26/2017

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\_77, Date: 24-Dec-2017, Time: 03:06:38, ID: ST171223M1-14 PFC CS3 17K2810, Description: PFC CS3 17K2810

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.93e3	1.02e4	1.0000		1.47	1.50	12.1	9.915	99.2
2	2 PFPeA	263.1 > 218.9	1.20e4	1.44e4	1.0000		2.44	2.46	10.4	9.649	96.5
3	3 PFBS	299.0 > 79.7	2.92e3	1.70e3	1.0000		2.70	2.73	21.5	9.918	99.2
4	4 PFHxA	313.2 > 268.9	1.55e4	5.01e3	1.0000		3.20	3.22	15.5	10.512	105.1
5	5 PFHpA	363.0 > 318.9	1.13e4	9.05e3	1.0000		3.80	3.83	15.6	10.028	100.3
6	6 L-PFHxS	398.9 > 79.6	2.46e3	1.45e3	1.0000		3.95	3.98	21.3	12.003	120.0
7	8 6:2 FTS	427.1 > 407	2.73e3	3.42e3	1.0000		4.26	4.29	9.98	8.967	89.7
8	9 L-PFOA	413 > 368.7	1.32e4	1.39e4	1.0000		4.32	4.34	11.9	11.437	114.4
9	11 PFHpS	449 > 80.0	2.79e3	1.39e4	1.0000		4.43	4.45	2.51	9.702	97.0
10	12 PFNA	463.0 > 418.8	1.32e4	1.19e4	1.0000		4.75	4.77	13.9	10.269	102.7
11	13 PFOSA	498.1 > 77.8	2.62e3	4.40e3	1.0000		4.81	4.83	7.45	8.291	82.9
12	14 L-PFOS	499 > 79.9	3.16e3	3.05e3	1.0000		4.83	4.85	13.0	11.813	118.1
13	16 PFDA	513 > 468.8	1.32e4	1.32e4	1.0000		5.11	5.13	12.6	7.355	73.5
14	17 8:2 FTS	527 > 506.9	3.57e3	1.63e3	1.0000		5.09	5.11	27.4	14.105	(A) 141.0
15	18 N-MeFOSAA	570.1 > 419	6.68e3	5.09e3	1.0000		5.26	5.29	16.4	7.756	77.6
16	19 N-EtFOSAA	584.2 > 419	4.93e3	5.51e3	1.0000		5.42	5.44	11.2	8.607	86.1
17	20 PFUdA	563.0 > 518.9	1.24e4	1.41e4	1.0000		5.43	5.45	11.0	8.949	89.5
18	21 PFDS	598.8 > 80	3.80e3	1.41e4	1.0000		5.50	5.50	3.36	9.970	99.7
19	22 PFDoA	612.9 > 569.0	1.16e4	9.93e3	1.0000		5.70	5.73	14.6	5.958	(B) 59.6
20	23 N-MeFOSA	512.1 > 168.9	7.86e3	1.90e4	1.0000		5.77	5.79	62.1	53.983	108.0
21	24 PFTrDA	662.9 > 618.9	1.49e4	6.95e3	1.0000		5.95	5.97	26.8	10.162	101.6
22	25 PFTeDA	712.9 > 668.8	8.47e3	6.95e3	1.0000		6.16	6.18	15.2	9.478	94.8
23	26 N-EtFOSA	526.1 > 168.9	1.06e4	3.14e4	1.0000		6.15	6.18	50.8	53.292	106.6
24	27 PFHxDA	813.1 > 768.6	5.77e3	4.42e3	1.0000		6.48	6.50	6.53	8.956	89.6
25	28 PFODA	913.1 > 868.8	6.53e3	4.42e3	1.0000		6.70	6.72	7.39	9.551	95.5
26	29 N-MeFOSE	616.1 > 58.9	1.00e4	3.32e4	1.0000		6.30	6.31	45.3	43.765	87.5
27	30 N-EtFOSE	630.1 > 58.9	1.19e4	2.62e4	1.0000		6.42	6.46	68.0	59.504	119.0
28	31 13C3-PFBA	216.1 > 171.8	1.02e4	1.14e4	1.0000	0.880	1.47	1.49	11.3	12.794	102.3
29	32 13C3-PFPeA	266. > 221.8	1.44e4	1.61e4	1.0000	0.826	2.44	2.46	11.2	13.604	108.8
30	33 13C3-PFBS	302. > 98.8	1.70e3	1.61e4	1.0000	0.106	2.70	2.73	1.32	12.485	99.9
31	34 13C2-PFHxA	315 > 269.8	5.01e3	1.61e4	1.0000	0.743	3.20	3.22	3.90	5.248	105.0

70-130  
 ↓  
 50-150  
 ↓

Dataset: U:\Q4.PRO\results\171223M1\171223M1-77.qld

Last Altered: Tuesday, December 26, 2017 13:35:12 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:35:47 Pacific Standard Time

Name: 171223M1\_77, Date: 24-Dec-2017, Time: 03:06:38, ID: ST171223M41-14 PFC CS3 17K2810, Description: PFC CS3 17K2810

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
32	35	13C4-PFHpA	367.2 > 321.8	9.05e3	1.61e4	1.0000	0.557	3.80	3.83	7.05	12.659	101.3
33	36	18O2-PFHxS	403.0 > 102.6	1.45e3	3.56e3	1.0000	0.433	3.95	3.98	5.08	11.737	93.9
34	37	13C2-6:2 FTS	429.1 > 408.9	3.42e3	1.36e4	1.0000	0.275	4.26	4.29	3.14	11.419	91.4
35	38	13C2-PFOA	414.9 > 369.7	1.39e4	1.36e4	1.0000	1.141	4.32	4.34	12.7	11.156	89.2
36	39	13C5-PFNA	468.2 > 422.9	1.19e4	1.22e4	1.0000	0.963	4.75	4.77	12.2	12.646	101.2
37	40	13C8-PFOSA	506.1 > 77.7	4.40e3	1.21e4	1.0000	0.373	4.81	4.83	4.53	12.129	97.0
38	41	13C8-PFOS	507.0 > 79.9	3.05e3	3.21e3	1.0000	1.075	4.83	4.85	11.9	11.028	88.2
39	42	13C2-PFDA	515.1 > 469.9	1.32e4	9.86e3	1.0000	1.213	5.11	5.13	16.7	13.755	110.0
40	43	13C2-8:2 FTS	529.1 > 508.7	1.63e3	1.61e4	1.0000	0.109	5.09	5.11	1.27	11.593	92.7
41	44	d3-N-MeFOSAA	573.3 > 419	5.09e3	1.21e4	1.0000	0.405	5.26	5.28	5.23	12.913	103.3
42	45	d5-N-EtFOSAA	589.3 > 419	5.51e3	1.21e4	1.0000	0.490	5.42	5.43	5.67	11.559	92.5
43	46	13C2-PFUdA	565 > 519.8	1.41e4	1.21e4	1.0000	1.154	5.43	5.45	14.6	12.609	100.9
44	47	13C2-PFDoA	615.0 > 569.7	9.93e3	1.21e4	1.0000	0.623	5.70	5.73	10.2	16.419	131.3
45	48	d3-N-MeFOSA	515.2 > 168.9	1.90e4	1.21e4	1.0000	0.146	5.80	5.81	19.5	134.019	89.3
46	49	13C2-PFTeDA	714.8 > 669.6	6.95e3	1.21e4	1.0000	0.706	6.16	6.18	7.16	10.138	81.1
47	50	d5-N-ETFOSA	531.1 > 168.9	3.14e4	1.21e4	1.0000	0.227	6.16	6.19	32.3	141.925	94.6
48	51	13C2-PFHxDA	815 > 769.7	4.42e3	1.21e4	1.0000	0.909	6.48	6.50	4.54	5.002	100.0
49	52	d7-N-MeFOSE	623.1 > 58.9	3.32e4	1.21e4	1.0000	0.213	6.30	6.30	34.2	160.151	106.8
50	53	d9-N-EtFOSE	639.2 > 58.8	2.62e4	1.21e4	1.0000	0.225	6.42	6.45	27.0	119.519	79.7
51	54	13C4-PFBA	217. > 171.8	1.14e4	1.14e4	1.0000	1.000	1.47	1.49	12.5	12.500	100.0
52	55	13C5-PFHxA	318 > 272.9	1.61e4	1.61e4	1.0000	1.000	3.20	3.22	12.5	12.500	100.0
53	56	13C3-PFHxS	401.9 > 79.9	3.56e3	3.56e3	1.0000	1.000	3.95	3.97	12.5	12.500	100.0
54	57	13C8-PFOA	421.3 > 376	1.36e4	1.36e4	1.0000	1.000	4.32	4.34	12.5	12.500	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.22e4	1.22e4	1.0000	1.000	4.75	4.77	12.5	12.500	100.0
56	59	13C4-PFOS	503 > 79.9	3.21e3	3.21e3	1.0000	1.000	4.83	4.85	12.5	12.500	100.0
57	60	13C6-PFDA	519.1 > 473.7	9.86e3	9.86e3	1.0000	1.000	5.11	5.14	12.5	12.500	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.21e4	1.21e4	1.0000	1.000	5.43	5.45	12.5	12.500	100.0

50-150  
~~70-130~~



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

	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
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

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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

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Compound name: PFBA

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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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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
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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	<del>1701837-08 MARTN-06-SB03-6-8 1</del>	24-Dec-17	09:37:55
113	171223M1_113	<del>1701837-09 MARTN-06-SB04-0-2-1</del>	24-Dec-17	09:49:06
114	171223M1_114	<u>1701837-10 MARTN-08-SB04-10-12 1</u>	24-Dec-17	10:00:17
115	171223M1_115	<del>1701837-11 MARTN-08-SB04-2-4-1</del>	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 13:35:12 Pacific Standard Time

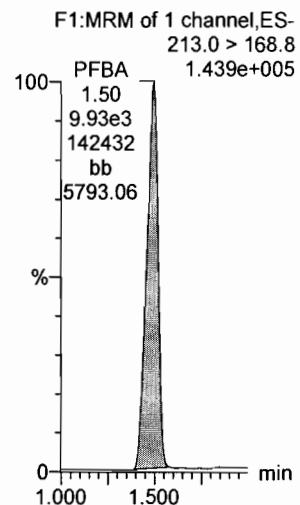
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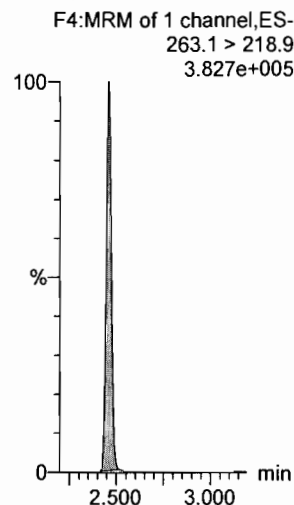
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-23-17\_NEWIS.cdb 26 Dec 2017 11:59:16

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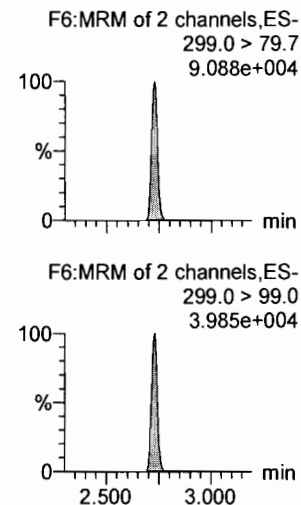
**PFBA**



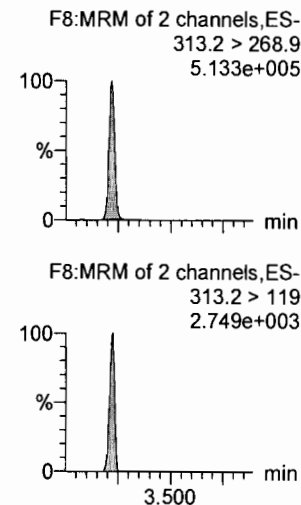
**PFPeA**



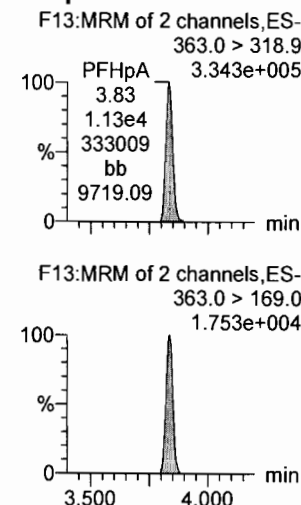
**PFBS**



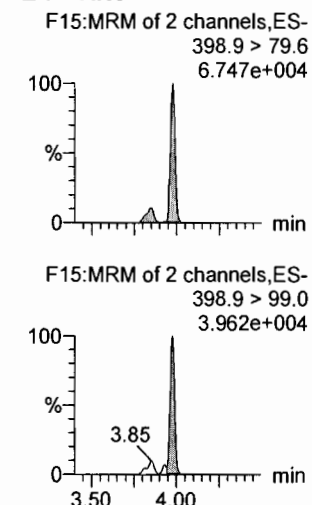
**PFHxA**



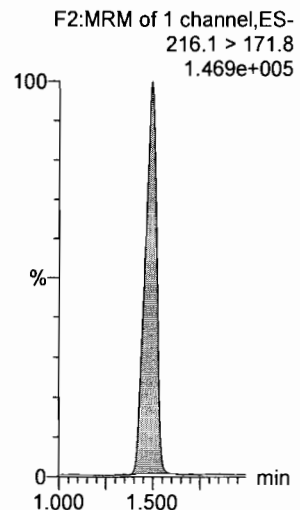
**PFHpA**



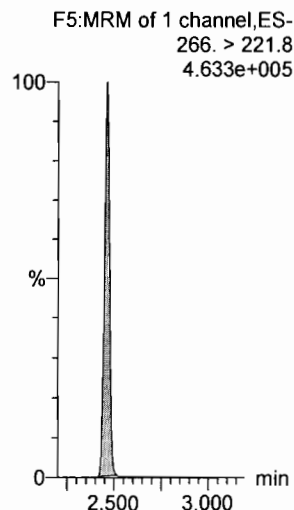
**L-PFHxS**



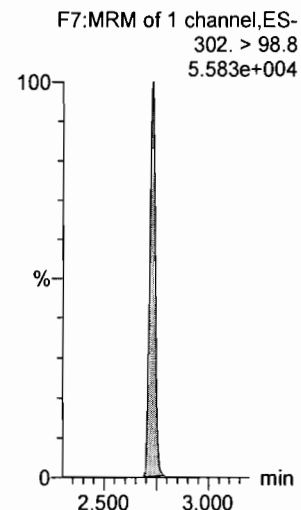
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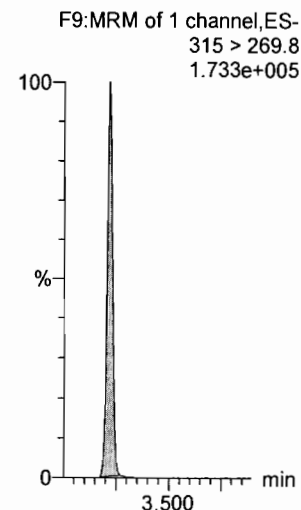
**13C3-PFPeA**



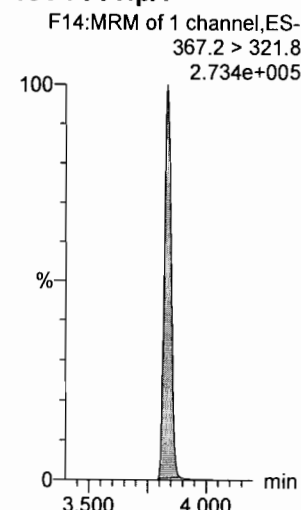
**13C3-PFBS**



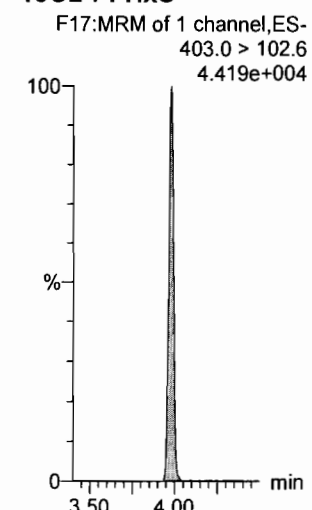
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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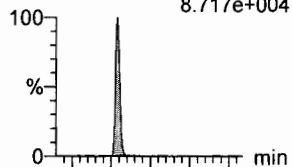
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Printed: Tuesday, December 26, 2017 13:35:47 Pacific Standard Time

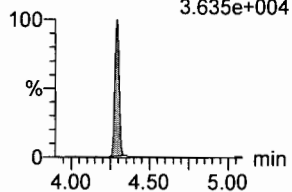
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**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
8.717e+004

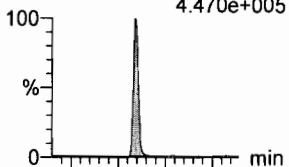


F21:MRM of 2 channels,ES-  
427.1 > 80  
3.635e+004

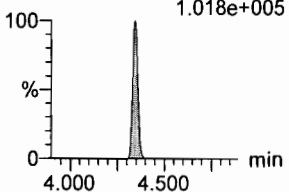


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.470e+005

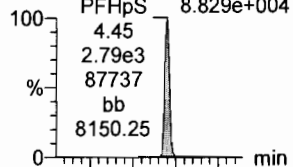


F18:MRM of 2 channels,ES-  
413 > 169  
1.018e+005

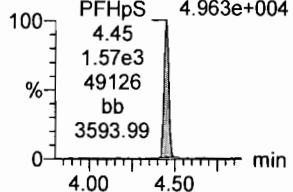


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
8.829e+004

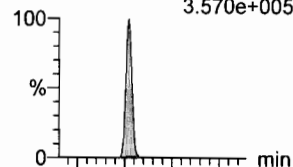


F23:MRM of 2 channels,ES-  
449 > 98.7  
4.963e+004

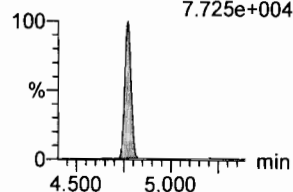


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
3.570e+005

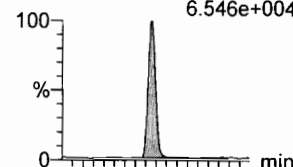


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
7.725e+004

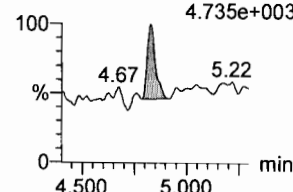


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
6.546e+004

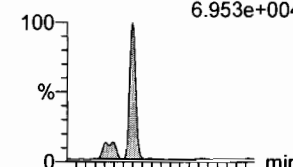


F27:MRM of 2 channels,ES-  
498.1 > 478  
4.735e+003

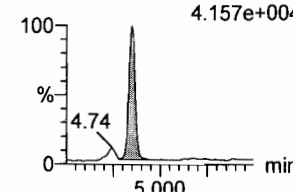


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
6.953e+004

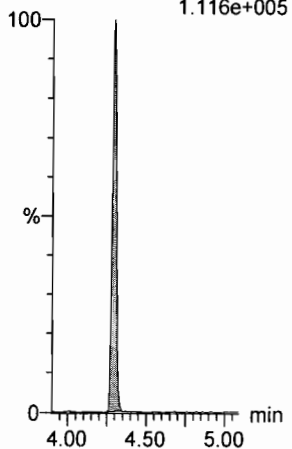


F29:MRM of 2 channels,ES-  
499 > 99  
4.157e+004



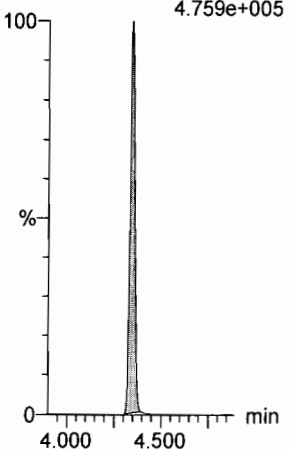
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.116e+005



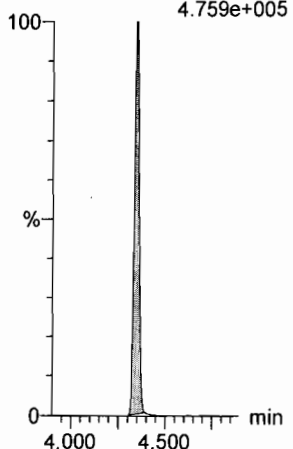
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.759e+005



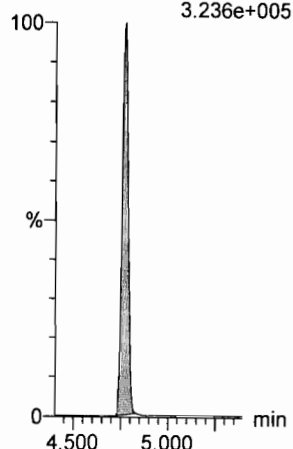
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.759e+005



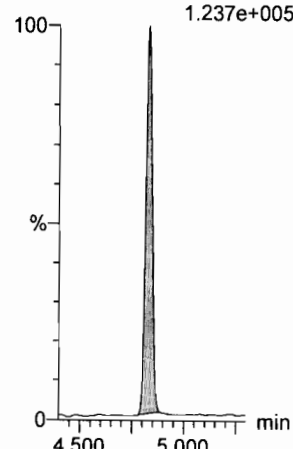
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.236e+005



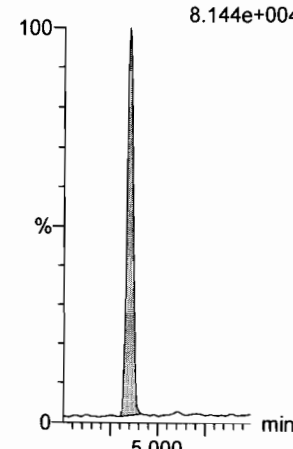
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
1.237e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
8.144e+004



Dataset: U:\Q4.PRO\results\171223M1\171223M1-77.qld

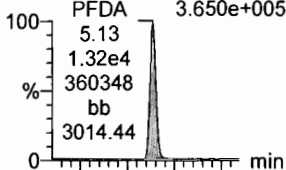
Last Altered: Tuesday, December 26, 2017 13:35:12 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:35:47 Pacific Standard Time

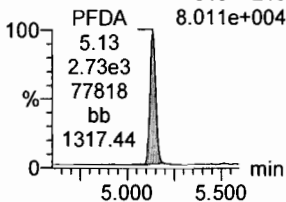
Name: 171223M1\_77, Date: 24-Dec-2017, Time: 03:06:38, ID: ST171223M41-14 PFC CS3 17K2810, Description: PFC CS3 17K2810

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
3.650e+005

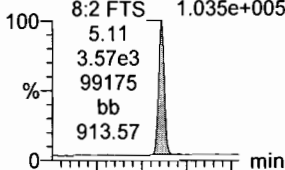


F34:MRM of 2 channels,ES-  
513 > 219  
8.011e+004

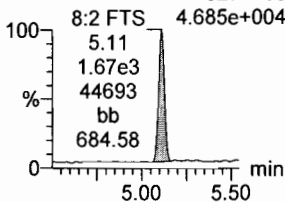


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
1.035e+005

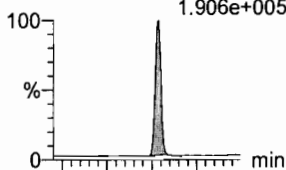


F39:MRM of 2 channels,ES-  
527 > 80  
4.685e+004

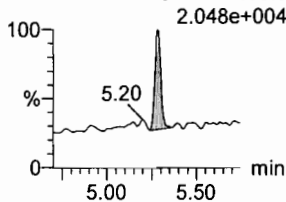


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.906e+005

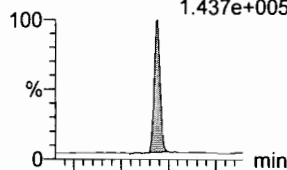


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
2.048e+004

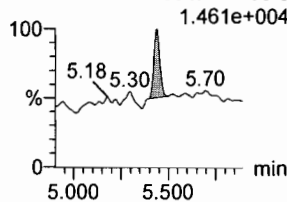


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.437e+005

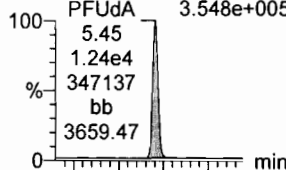


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.461e+004

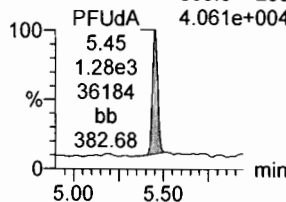


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
3.548e+005

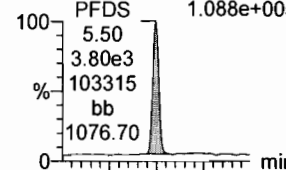


F42:MRM of 2 channels,ES-  
563.0 > 269  
4.061e+004

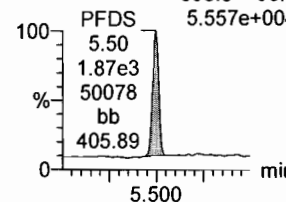


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
1.088e+005

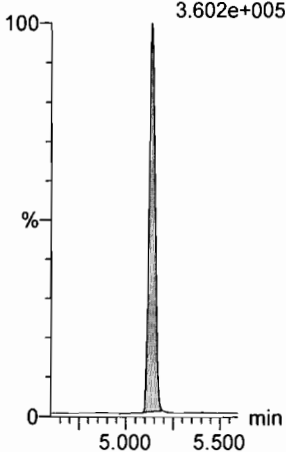


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
5.557e+004



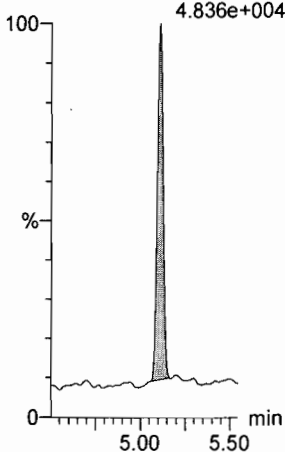
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
3.602e+005



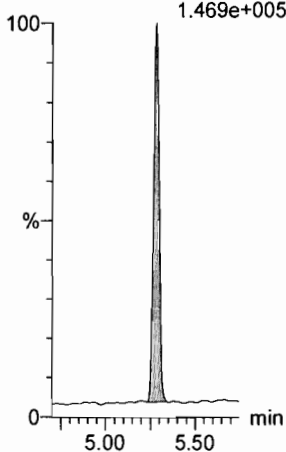
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.836e+004



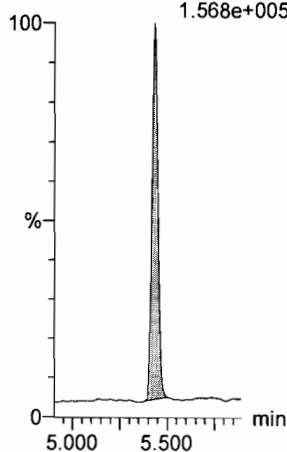
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.469e+005



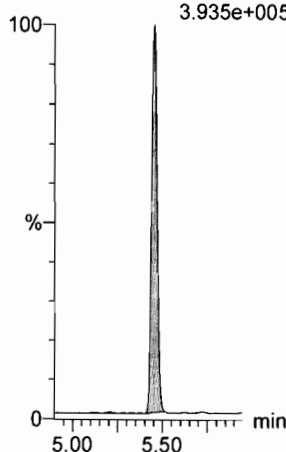
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.568e+005



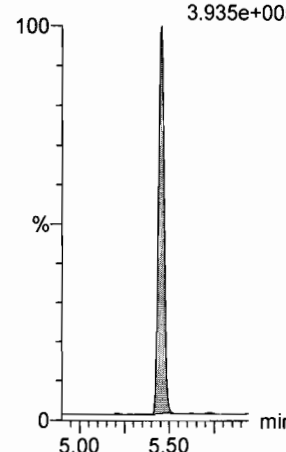
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.935e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.935e+005

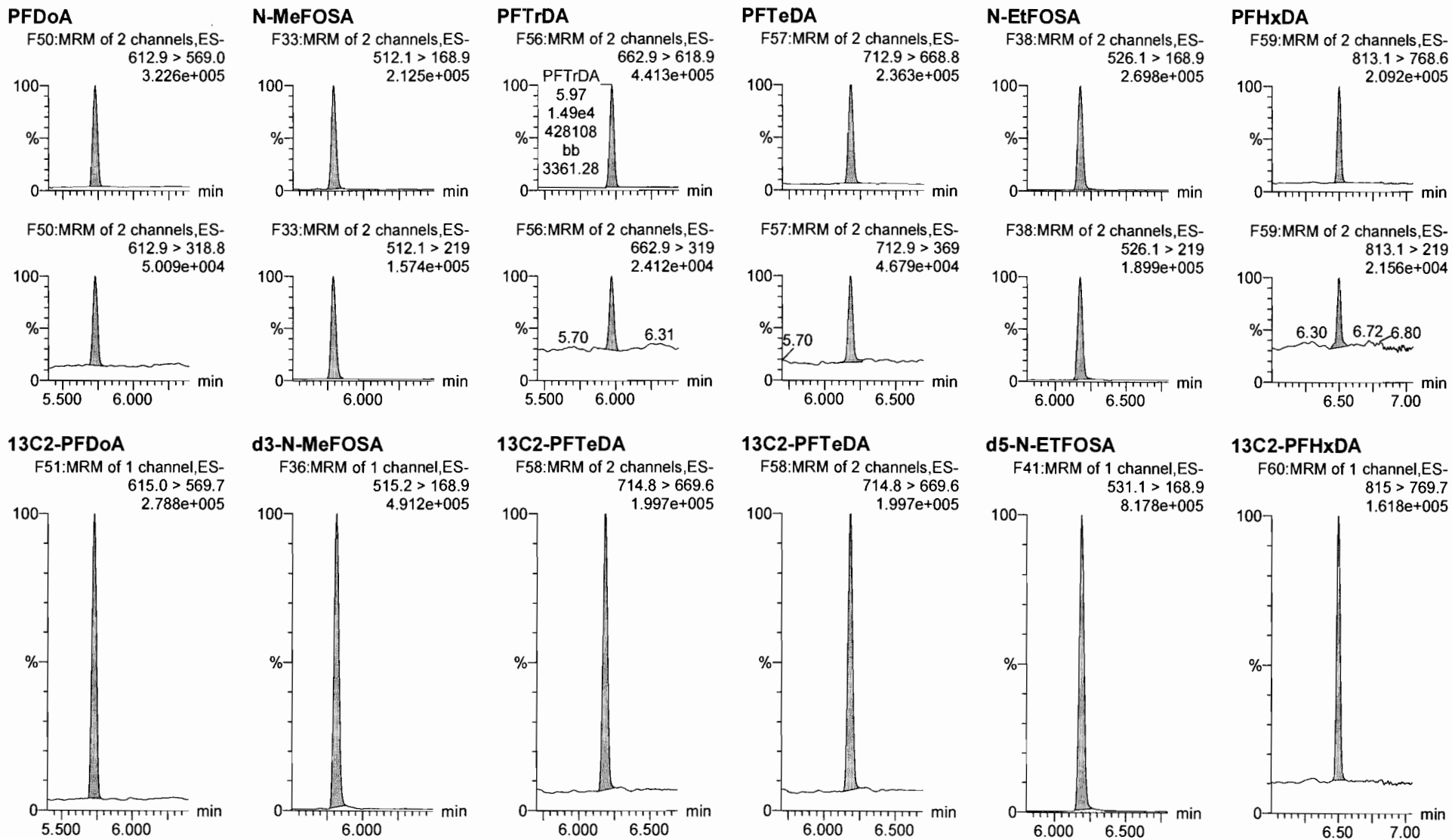


Dataset: U:\Q4.PRO\results\171223M1\171223M1-77.qld

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Printed: Tuesday, December 26, 2017 13:35:47 Pacific Standard Time

Name: 171223M1\_77, Date: 24-Dec-2017, Time: 03:06:38, ID: ST171223M41-14 PFC CS3 17K2810, Description: PFC CS3 17K2810





Dataset: U:\Q4.PRO\results\171223M1\171223M1-77.qld

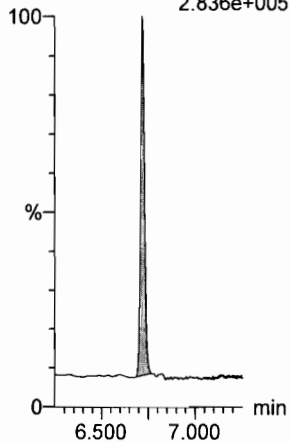
Last Altered: Tuesday, December 26, 2017 13:35:12 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:35:47 Pacific Standard Time

Name: 171223M1\_77, Date: 24-Dec-2017, Time: 03:06:38, ID: ST171223M41-14 PFC CS3 17K2810, Description: PFC CS3 17K2810

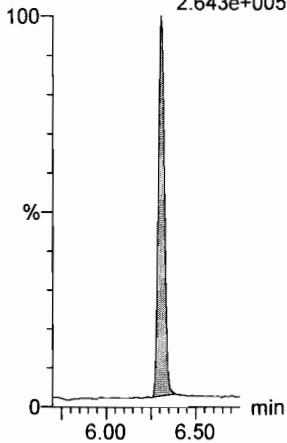
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
2.836e+005



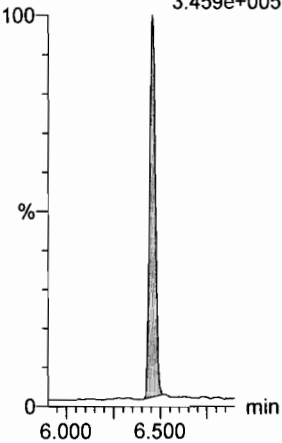
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.643e+005



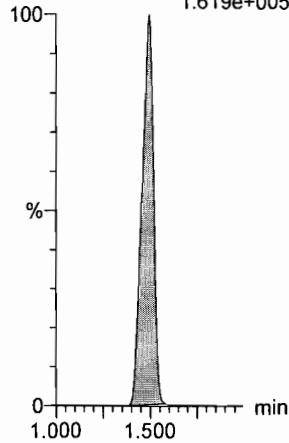
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.459e+005



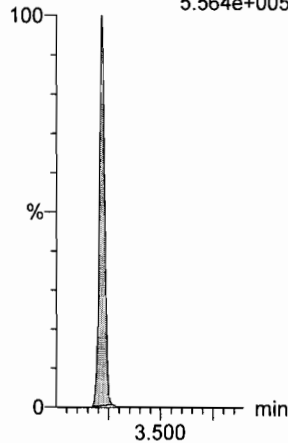
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.619e+005



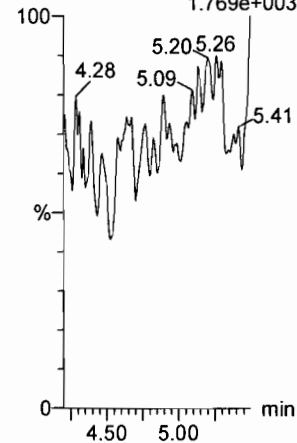
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
5.564e+005



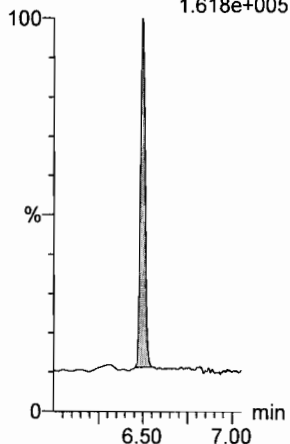
**TCDA**

F28:MRM of 3 channels,ES-  
498.3 > 106.9  
1.769e+003



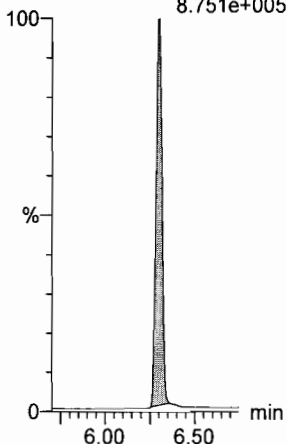
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.618e+005



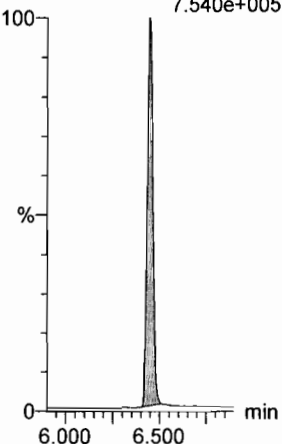
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
8.751e+005



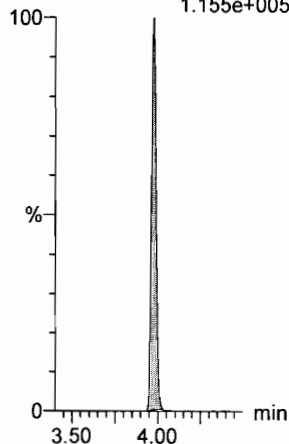
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
7.540e+005



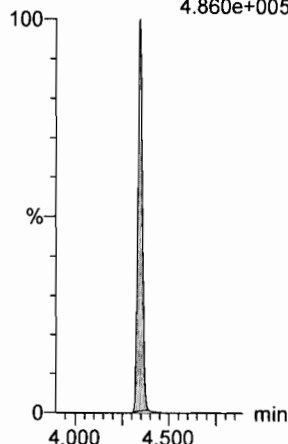
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
1.155e+005



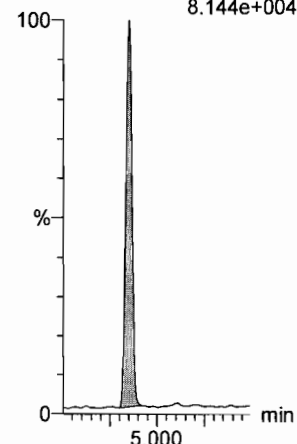
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
4.860e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
8.144e+004



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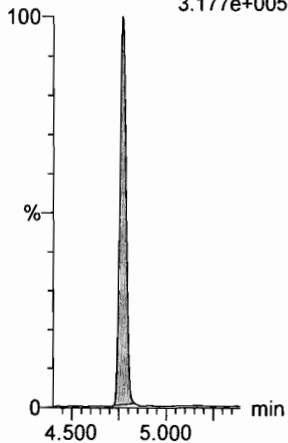
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Name: 171223M1\_77, Date: 24-Dec-2017, Time: 03:06:38, ID: ST171223M41-14 PFC CS3 17K2810, Description: PFC CS3 17K2810

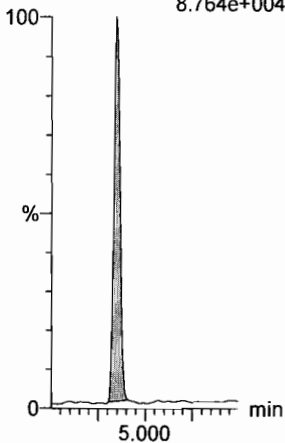
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.177e+005



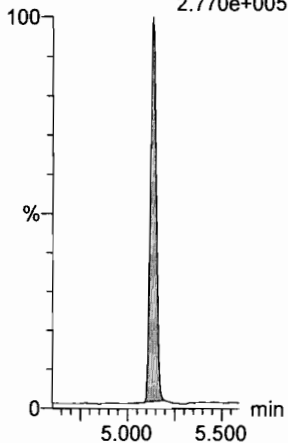
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
8.764e+004



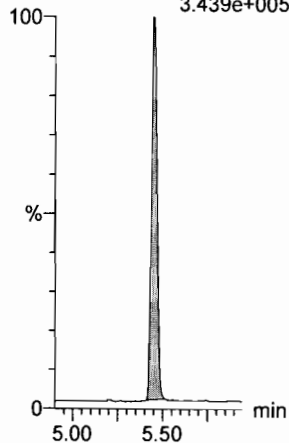
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.770e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.439e+005



Dataset: U:\Q4.PRO\results\171228M2\171228M2-IIS AREAS.qld

Last Altered: Thursday, December 28, 2017 15:03:57 Pacific Standard Time

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

Calibration: 28 Dec 2017 15:03:57

Name: 171228M2\_2, Date: 28-Dec-2017, Time: 12:46:34, ID: ST171228M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171228M2-1 PFC CS0 17L2608	1.19e4	100.0	NO
2	2 13C5-PFHxA	ST171228M2-1 PFC CS0 17L2608	1.54e4	100.0	NO
3	3 13C3-PFHxS	ST171228M2-1 PFC CS0 17L2608	3.40e3	100.0	NO
4	4 13C8-PFOA	ST171228M2-1 PFC CS0 17L2608	1.30e4	100.0	NO
5	5 13C9-PFNA	ST171228M2-1 PFC CS0 17L2608	1.03e4	100.0	NO
6	6 13C4-PFOS	ST171228M2-1 PFC CS0 17L2608	3.89e3	100.0	NO
7	7 13C6-PFDA	ST171228M2-1 PFC CS0 17L2608	9.42e3	100.0	NO
8	8 13C7-PFUDa	ST171228M2-1 PFC CS0 17L2608	1.21e4	100.0	NO

Name: 171228M2\_3, Date: 28-Dec-2017, Time: 12:57:43, ID: B7L0145-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0145-BS1 OPR 0.125	8.27e3	69.6	NO
2	2 13C5-PFHxA	B7L0145-BS1 OPR 0.125	1.11e4	72.4	NO
3	3 13C3-PFHxS	B7L0145-BS1 OPR 0.125	2.80e3	82.3	NO
4	4 13C8-PFOA	B7L0145-BS1 OPR 0.125	1.08e4	83.4	NO
5	5 13C9-PFNA	B7L0145-BS1 OPR 0.125	8.35e3	80.9	NO
6	6 13C4-PFOS	B7L0145-BS1 OPR 0.125	3.24e3	83.3	NO
7	7 13C6-PFDA	B7L0145-BS1 OPR 0.125	7.64e3	81.1	NO
8	8 13C7-PFUDa	B7L0145-BS1 OPR 0.125	1.05e4	86.7	NO

Name: 171228M2\_4, Date: 28-Dec-2017, Time: 13:08:54, ID: B7L0088-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0088-BS1 OPR 0.125	8.37e3	70.4	NO
2	2 13C5-PFHxA	B7L0088-BS1 OPR 0.125	1.11e4	72.0	NO
3	3 13C3-PFHxS	B7L0088-BS1 OPR 0.125	2.72e3	79.8	NO
4	4 13C8-PFOA	B7L0088-BS1 OPR 0.125	1.00e4	77.3	NO
5	5 13C9-PFNA	B7L0088-BS1 OPR 0.125	8.98e3	87.0	NO
6	6 13C4-PFOS	B7L0088-BS1 OPR 0.125	2.63e3	67.8	NO
7	7 13C6-PFDA	B7L0088-BS1 OPR 0.125	7.43e3	78.9	NO
8	8 13C7-PFUDa	B7L0088-BS1 OPR 0.125	8.40e3	69.2	NO

Name: 171228M2\_5, Date: 28-Dec-2017, Time: 13:20:05, 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			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUDa	IPA			NO

Dataset: U:\Q4.PRO\results\171228M2\171228M2-IIS AREAS.qld

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**Name: 171228M2\_6, Date: 28-Dec-2017, Time: 13:31:16, 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	8.62e3	72.5	NO
2	2 13C5-PFHxA	B7L0088-BLK1 Method Blank 0.125	1.18e4	76.7	NO
3	3 13C3-PFHxS	B7L0088-BLK1 Method Blank 0.125	2.59e3	76.2	NO
4	4 13C8-PFOA	B7L0088-BLK1 Method Blank 0.125	1.00e4	77.3	NO
5	5 13C9-PFNA	B7L0088-BLK1 Method Blank 0.125	8.04e3	77.9	NO
6	6 13C4-PFOS	B7L0088-BLK1 Method Blank 0.125	2.32e3	59.6	NO
7	7 13C6-PFDA	B7L0088-BLK1 Method Blank 0.125	6.97e3	74.0	NO
8	8 13C7-PFUDa	B7L0088-BLK1 Method Blank 0.125	1.12e4	92.0	NO

**Name: 171228M2\_7, Date: 28-Dec-2017, Time: 13:42:26, 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	8.33e3	70.0	NO
2	2 13C5-PFHxA	B7L0145-MS1 Matrix Spike 0.11652	9.54e3	62.0	NO
3	3 13C3-PFHxS	B7L0145-MS1 Matrix Spike 0.11652	2.57e3	75.4	NO
4	4 13C8-PFOA	B7L0145-MS1 Matrix Spike 0.11652	8.52e3	65.6	NO
5	5 13C9-PFNA	B7L0145-MS1 Matrix Spike 0.11652	8.19e3	79.4	NO
6	6 13C4-PFOS	B7L0145-MS1 Matrix Spike 0.11652	2.09e3	53.8	NO
7	7 13C6-PFDA	B7L0145-MS1 Matrix Spike 0.11652	8.50e3	90.2	NO
8	8 13C7-PFUDa	B7L0145-MS1 Matrix Spike 0.11652	7.85e3	64.6	NO

**Name: 171228M2\_8, Date: 28-Dec-2017, Time: 13:53:36, 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...	7.43e3	62.5	NO
2	2 13C5-PFHxA	B7L0145-MSD1 Matrix Spike Dup 0.116...	8.56e3	55.6	NO
3	3 13C3-PFHxS	B7L0145-MSD1 Matrix Spike Dup 0.116...	2.22e3	65.1	NO
4	4 13C8-PFOA	B7L0145-MSD1 Matrix Spike Dup 0.116...	8.51e3	65.6	NO
5	5 13C9-PFNA	B7L0145-MSD1 Matrix Spike Dup 0.116...	7.46e3	72.2	NO
6	6 13C4-PFOS	B7L0145-MSD1 Matrix Spike Dup 0.116...	2.44e3	62.7	NO
7	7 13C6-PFDA	B7L0145-MSD1 Matrix Spike Dup 0.116...	6.78e3	72.0	NO
8	8 13C7-PFUDa	B7L0145-MSD1 Matrix Spike Dup 0.116...	8.37e3	68.9	NO

**Name: 171228M2\_9, Date: 28-Dec-2017, Time: 14:05:33, ID: B7L0145-BS1 OPR 0.125, Description: OPR**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0145-BS1 OPR 0.125	7.30e3	61.4	NO
2	2 13C5-PFHxA	B7L0145-BS1 OPR 0.125	8.95e3	58.2	NO
3	3 13C3-PFHxS	B7L0145-BS1 OPR 0.125	2.26e3	66.5	NO
4	4 13C8-PFOA	B7L0145-BS1 OPR 0.125	8.74e3	67.4	NO
5	5 13C9-PFNA	B7L0145-BS1 OPR 0.125	8.84e3	85.7	NO
6	6 13C4-PFOS	B7L0145-BS1 OPR 0.125	2.35e3	60.5	NO
7	7 13C6-PFDA	B7L0145-BS1 OPR 0.125	6.55e3	69.6	NO
8	8 13C7-PFUDa	B7L0145-BS1 OPR 0.125	8.70e3	71.6	NO

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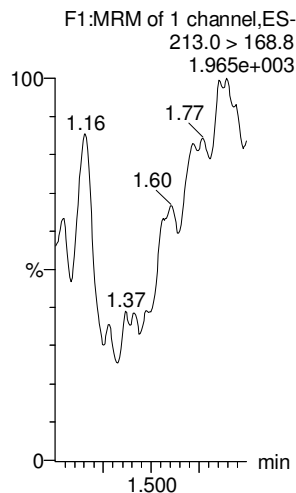
Last Altered: Thursday, December 28, 2017 14:16:28 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:17:10 Pacific Standard Time

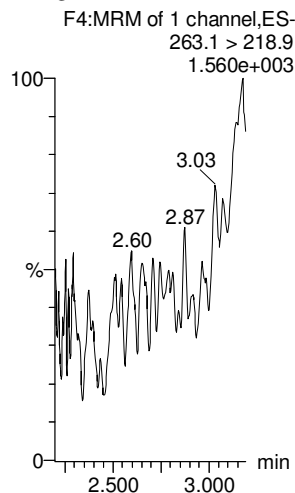
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Name: 171228M2\_5, Date: 28-Dec-2017, Time: 13:20:05, ID: IPA, Description: IPA

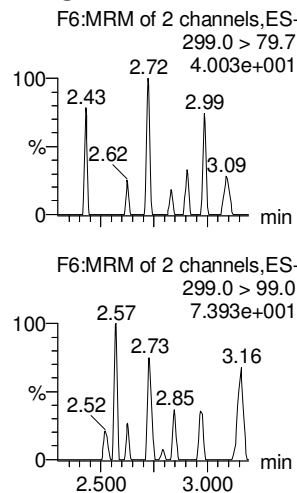
**PFBA**



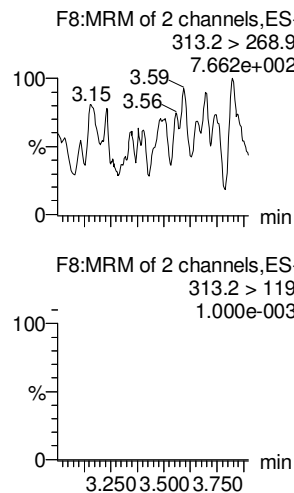
**PFPeA**



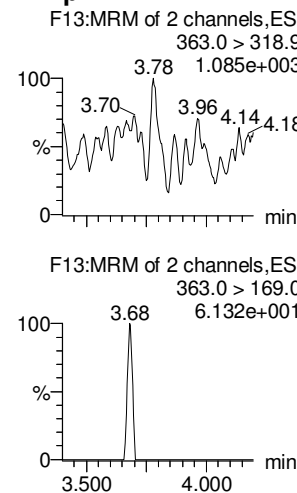
**PFBS**



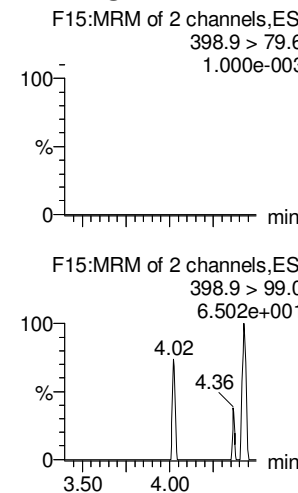
**PFHxA**



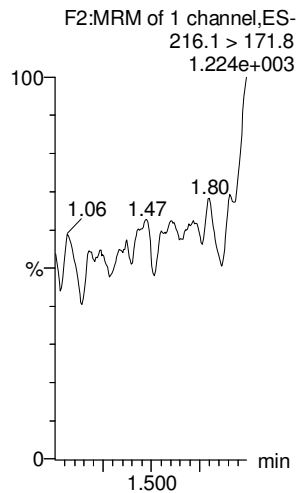
**PFHpA**



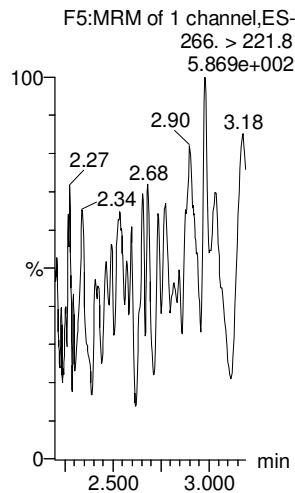
**L-PFHxS**



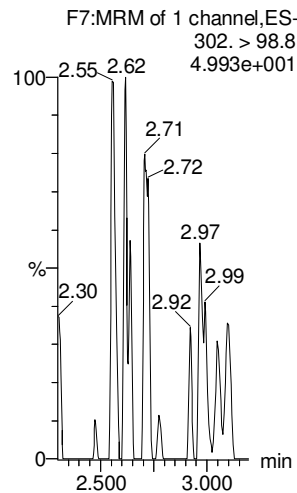
**13C3-PFBA**



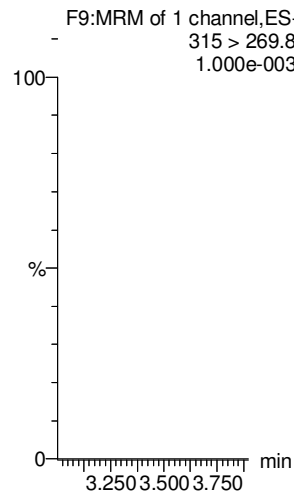
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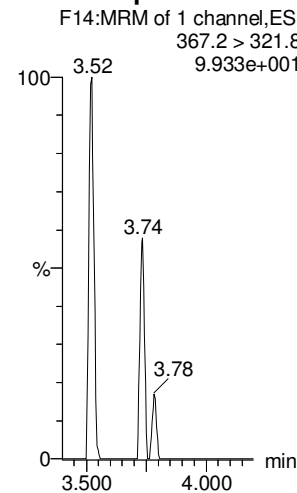
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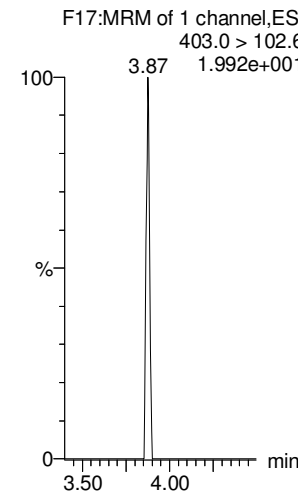
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



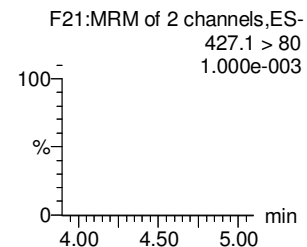
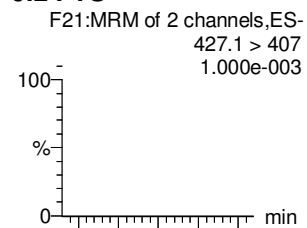
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Last Altered: Thursday, December 28, 2017 14:16:28 Pacific Standard Time

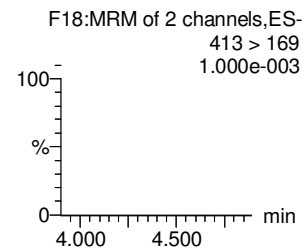
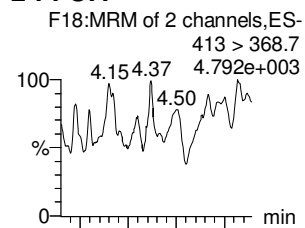
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Name: 171228M2\_5, Date: 28-Dec-2017, Time: 13:20:05, ID: IPA, Description: IPA

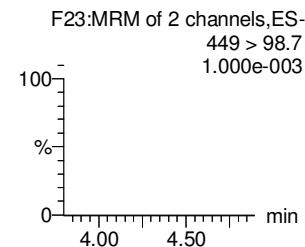
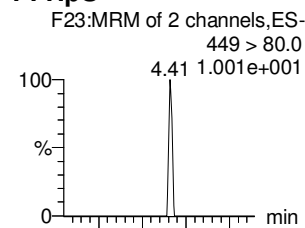
**6:2 FTS**



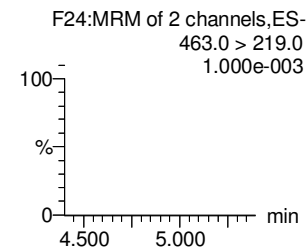
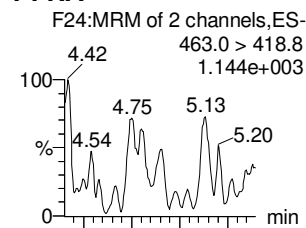
**L-PFOA**



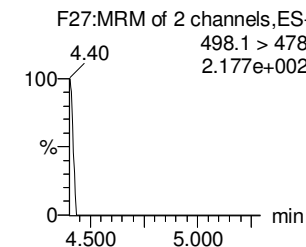
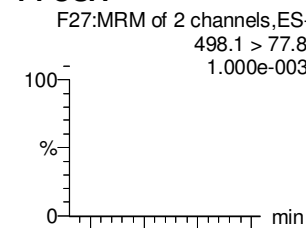
**PFHpS**



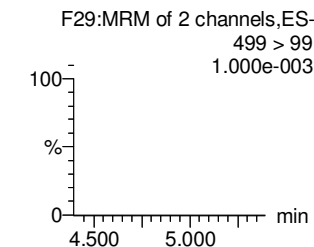
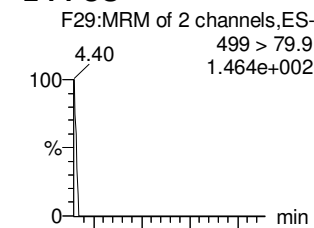
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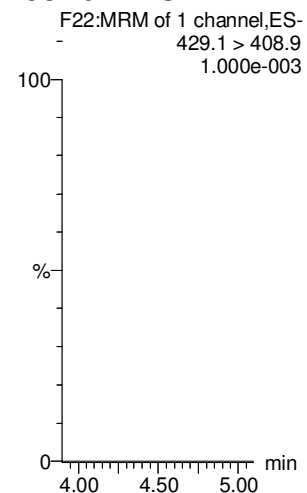
**PFOSA**



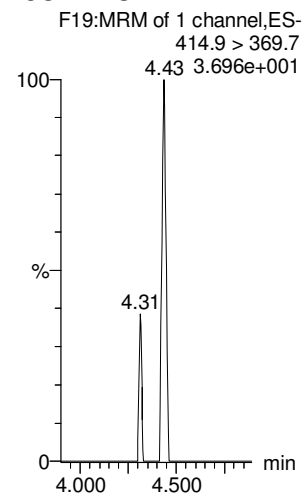
**L-PFOS**



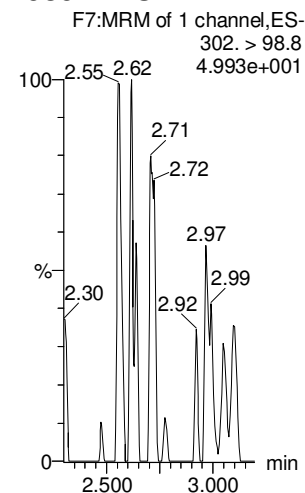
**13C2-6:2 FTS**



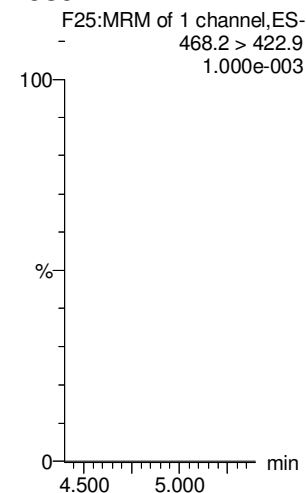
**13C2-PFOA**



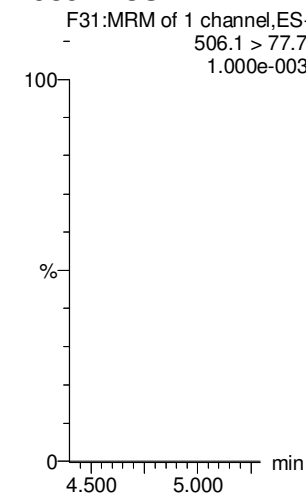
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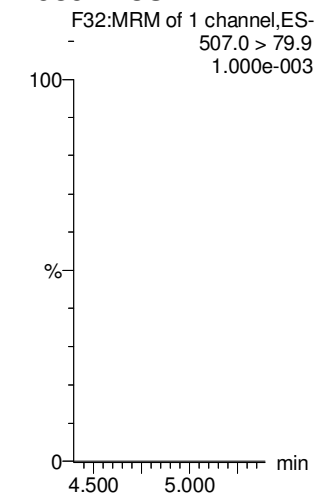
**13C5-PFNA**



**13C8-PFOA**



**13C8-PFOS**



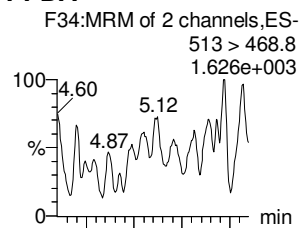
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Last Altered: Thursday, December 28, 2017 14:16:28 Pacific Standard Time

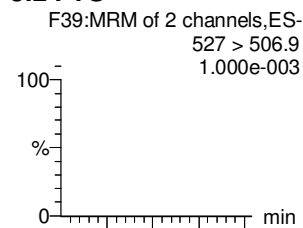
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Name: 171228M2\_5, Date: 28-Dec-2017, Time: 13:20:05, ID: IPA, Description: IPA

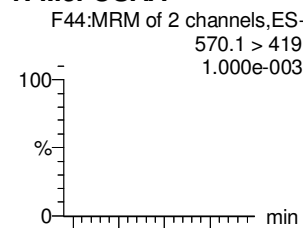
**PFDA**



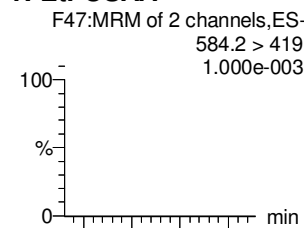
**8:2 FTS**



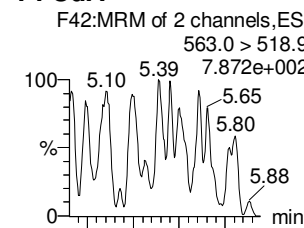
**N-MeFOSAA**



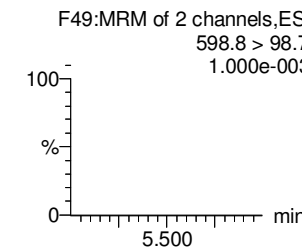
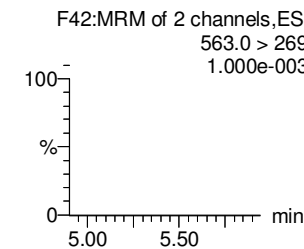
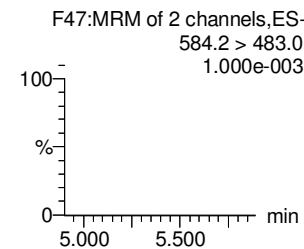
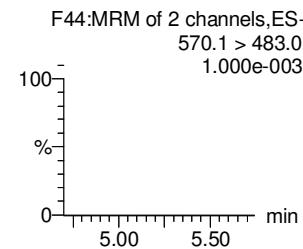
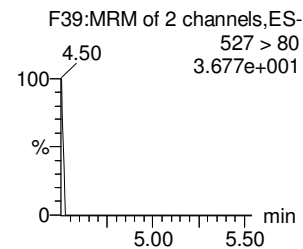
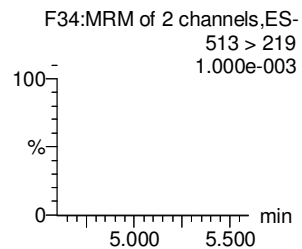
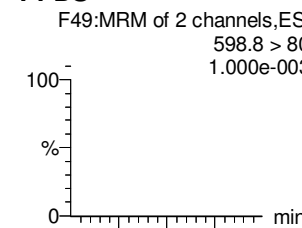
**N-EtFOSAA**



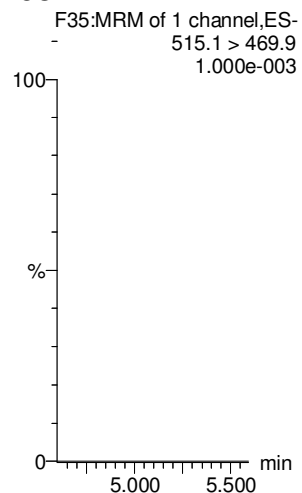
**PFUdA**



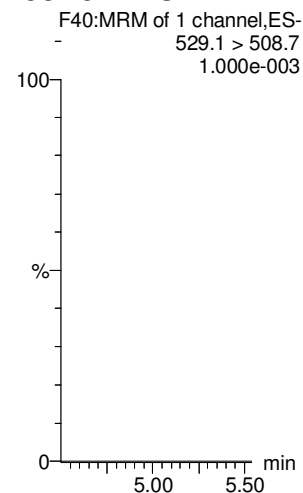
**PFDS**



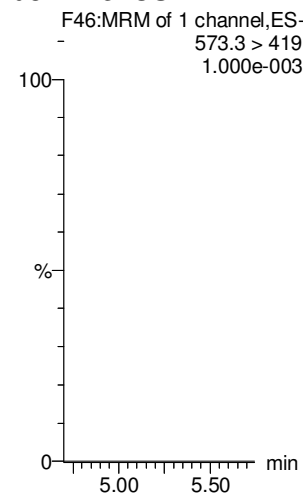
**13C2-PFDA**



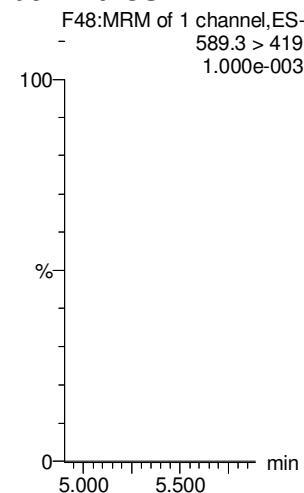
**13C2-8:2 FTS**



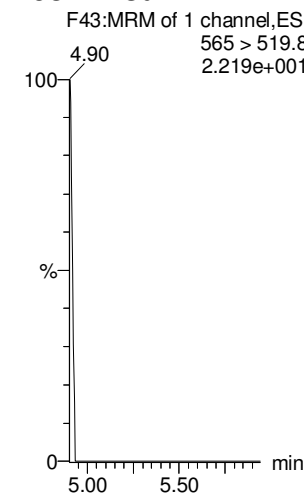
**d3-N-MeFOSAA**



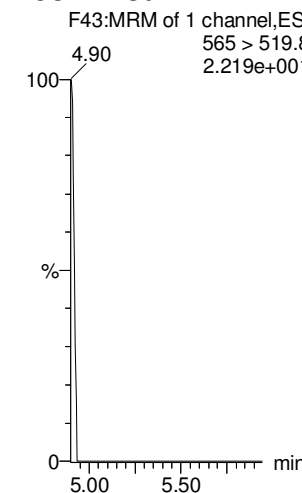
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



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Last Altered: Thursday, December 28, 2017 14:16:28 Pacific Standard Time

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Name: 171228M2\_5, Date: 28-Dec-2017, Time: 13:20:05, ID: IPA, Description: IPA

**PFD<sub>o</sub>A**

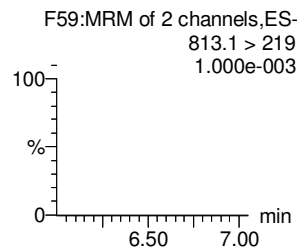
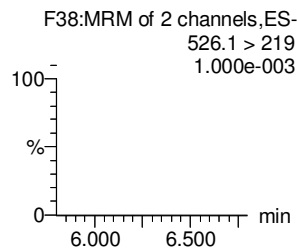
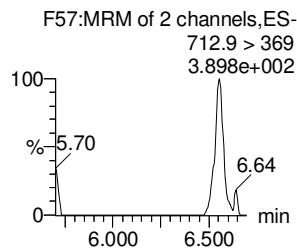
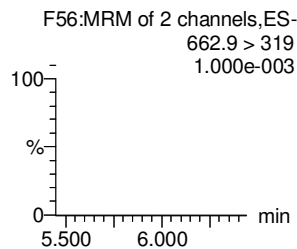
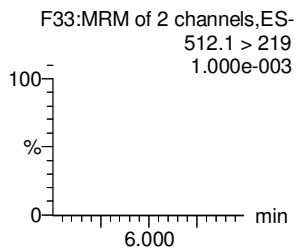
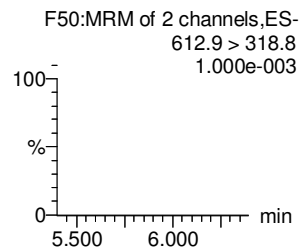
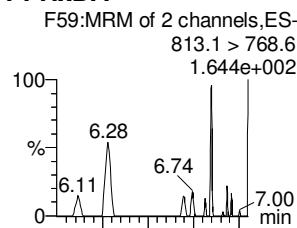
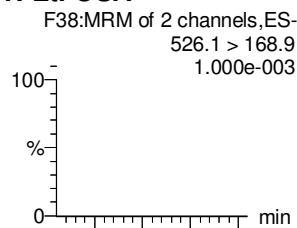
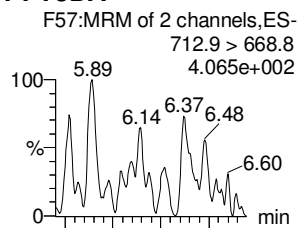
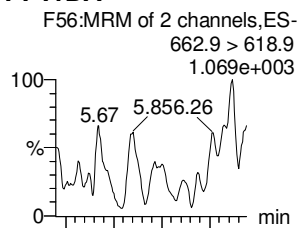
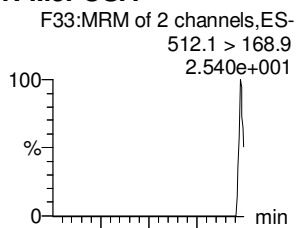
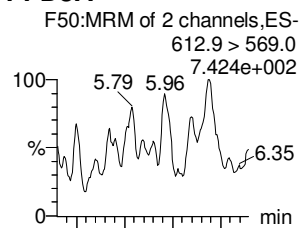
**N-MeFOSA**

**PFT<sub>r</sub>DA**

**PFT<sub>e</sub>DA**

**N-EtFOSA**

**PFH<sub>x</sub>DA**



**13C2-PFD<sub>o</sub>A**

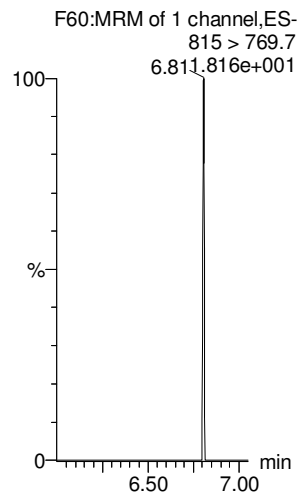
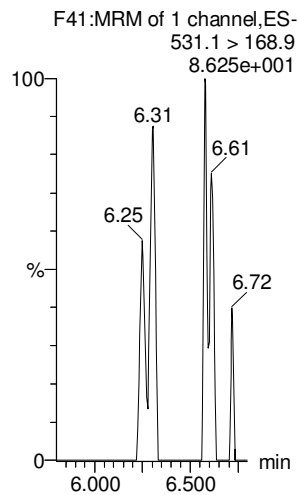
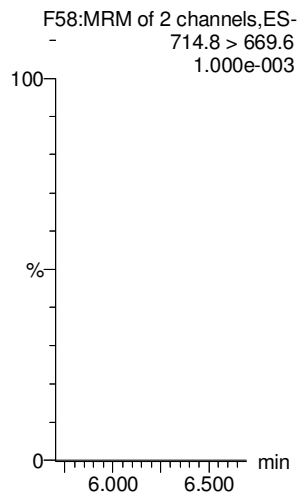
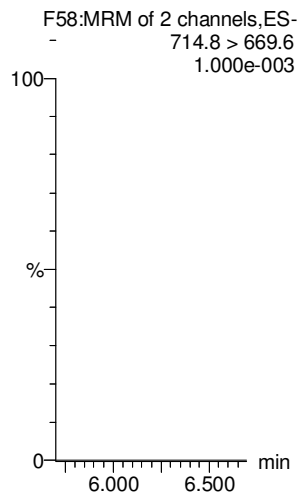
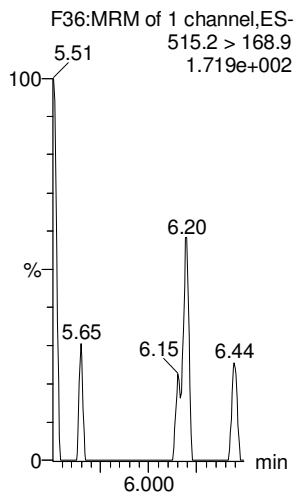
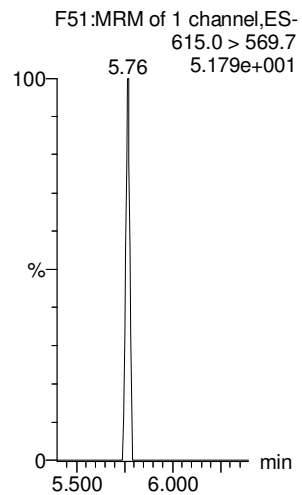
**d3-N-MeFOSA**

**13C2-PFT<sub>e</sub>DA**

**13C2-PFT<sub>e</sub>DA**

**d5-N-ETFOSA**

**13C2-PFH<sub>x</sub>DA**





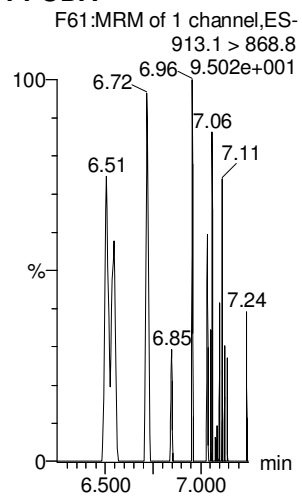
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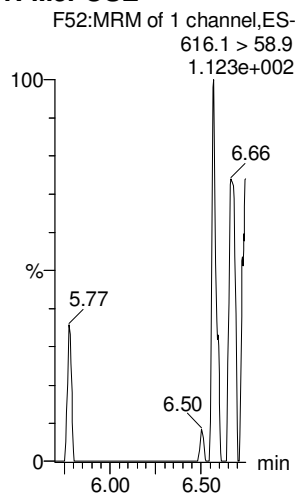
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Name: 171228M2\_5, Date: 28-Dec-2017, Time: 13:20:05, ID: IPA, Description: IPA

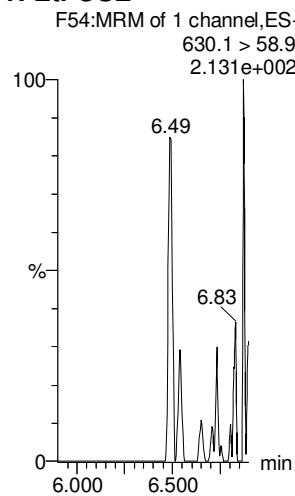
**PFODA**



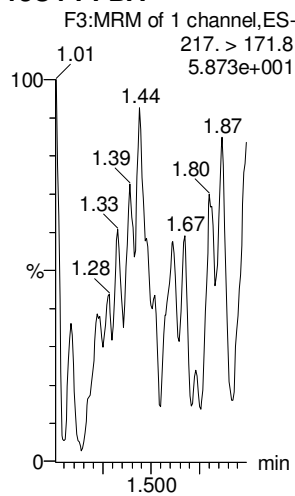
**N-MeFOSE**



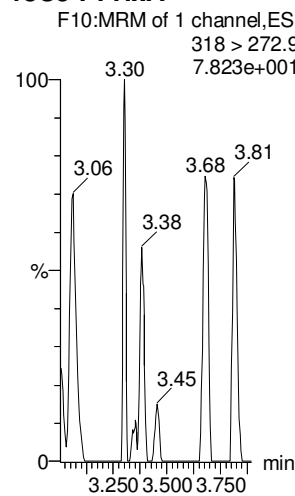
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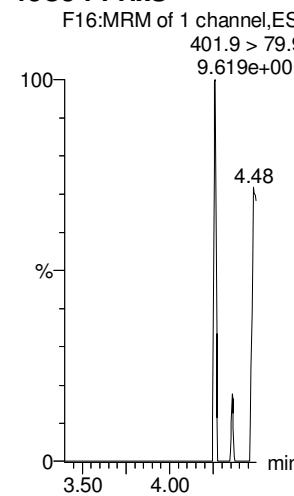
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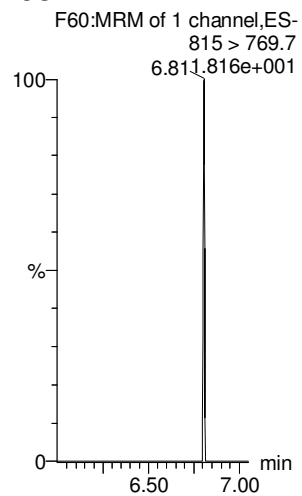
**13C5-PFHxA**



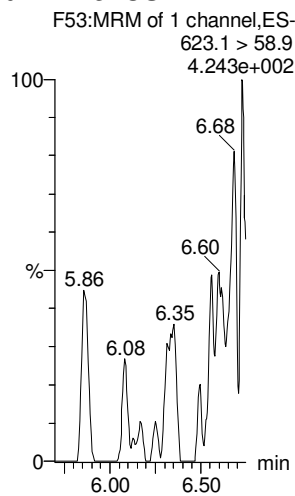
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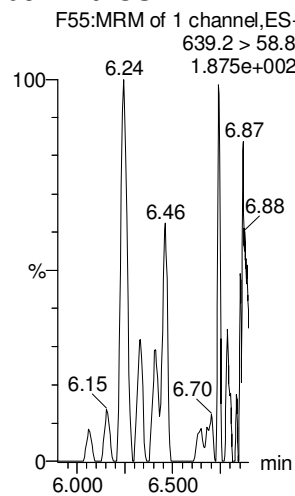
**13C2-PFHxDA**



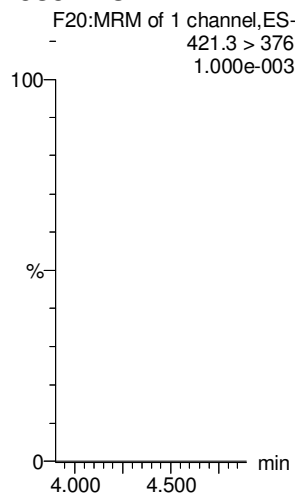
**d7-N-MeFOSE**



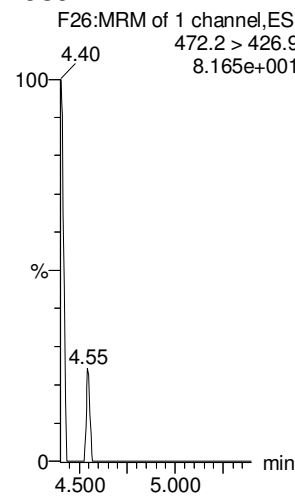
**d9-N-EtFOSE**



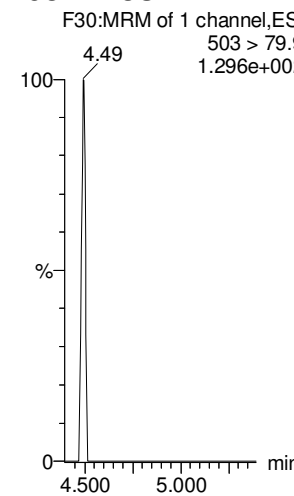
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



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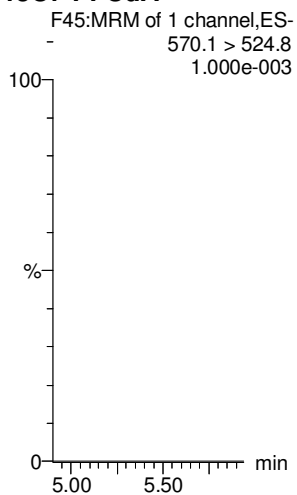
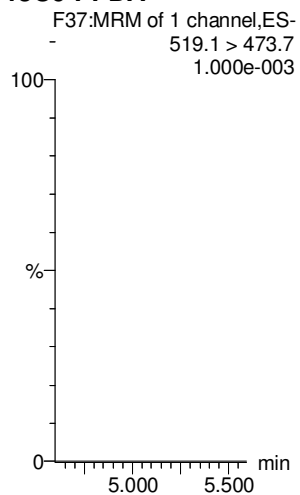
Last Altered: Thursday, December 28, 2017 14:16:28 Pacific Standard Time

Printed: Thursday, December 28, 2017 14:17:10 Pacific Standard Time

Name: 171228M2\_5, Date: 28-Dec-2017, Time: 13:20:05, ID: IPA, Description: IPA

13C6-PFDA

13C7-PFUdA



Dataset: U:\Q4.PRO\results\171228M2\171228M2-2.qld

Last Altered: Thursday, December 28, 2017 12:56:59 Pacific Standard Time  
Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 11:43:33  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_2, Date: 28-Dec-2017, Time: 12:46:34, ID: ST171228M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

AC  
12/28/17  
VJA  
12/28/2017

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	8.92e2	8.83e3	1.0000		1.47	1.50	1.26	0.951	95.1
2	2 PFPeA	263.1 > 218.9	9.77e2	1.10e4	1.0000		2.44	2.45	1.11	0.954	95.4
3	3 PFBS	299.0 > 79.7	1.94e2	1.37e3	1.0000		2.70	2.72	1.77	0.946	94.6
4	4 PFHxA	313.2 > 268.9	1.20e3	3.60e3	1.0000		3.20	3.21	1.67	0.965	96.5
5	5 PFHpA	363.0 > 318.9	9.23e2	8.01e3	1.0000		3.80	3.81	1.44	0.931	93.1
6	6 L-PFHxS	398.9 > 79.6	1.98e2	1.06e3	1.0000		3.95	3.96	2.34	1.134	113.4
7	8 6:2 FTS	427.1 > 407	2.78e2	1.19e4	1.0000		4.26	4.26	0.293	1.213	121.3
8	9 L-PFOA	413 > 368.7	1.31e3	1.19e4	1.0000		4.32	4.31	1.38	0.887	88.7
9	11 PFHpS	449 > 80.0	2.70e2	1.19e4	1.0000		4.43	4.42	0.284	1.110	111.0
10	12 PFNA	463.0 > 418.8	1.14e3	1.08e4	1.0000		4.75	4.73	1.32	0.869	86.9
11	13 PFOSA	498.1 > 77.8	2.42e2	2.21e3	1.0000		4.81	4.81	1.37	1.149	114.9
12	14 L-PFOS	499 > 79.9	2.24e2	2.42e3	1.0000		4.83	4.81	1.16	0.957	95.7
13	16 PFDA	513 > 468.8	1.07e3	9.29e3	1.0000		5.11	5.09	1.44	0.980	98.0
14	17 8:2 FTS	527 > 506.9	2.46e2	9.29e3	1.0000		5.09	5.07	0.332	0.994	99.4
15	18 N-MeFOSAA	570.1 > 419	7.63e2	6.50e3	1.0000		5.26	5.24	1.47	0.959	95.9
16	19 N-EtFOSAA	584.2 > 419	4.31e2	5.05e3	1.0000		5.42	5.39	1.07	0.952	95.2
17	20 PFUdA	563.0 > 518.9	1.03e3	1.25e4	1.0000		5.43	5.41	1.03	0.940	94.0
18	21 PFDS	598.8 > 80	2.73e2	1.25e4	1.0000		5.50	5.45	0.273	0.923	92.3
19	22 PFDoA	612.9 > 569.0	1.01e3	7.95e3	1.0000		5.70	5.67	1.58	0.952	95.2
20	23 N-MeFOSA	512.1 > 168.9	5.44e2	1.72e4	1.0000		5.77	5.84	4.74	4.209	84.2
21	24 PFTrDA	662.9 > 618.9	1.09e3	7.95e3	1.0000		5.95	5.91	1.72	1.285	128.5
22	25 PFTeDA	712.9 > 668.8	4.62e2	2.25e3	1.0000		6.16	6.13	2.57	0.893	89.3
23	26 N-EtFOSA	526.1 > 168.9	8.52e2	2.67e4	1.0000		6.15	6.20	4.79	4.793	95.9
24	27 PFHxDA	813.1 > 768.6	4.19e2	2.02e3	1.0000		6.48	6.45	1.03	1.246	124.6
25	28 PFODA	913.1 > 868.8	5.49e2	2.02e3	1.0000		6.70	6.67	1.36	1.019	101.9
26	29 N-MeFOSE	616.1 > 58.9	7.30e2	2.23e4	1.0000		6.30	6.30	4.91	4.456	89.1
27	30 N-EtFOSE	630.1 > 58.9	9.94e2	2.72e4	1.0000		6.42	6.45	5.49	4.353	87.1
28	31 13C4-PFBA	216.1 > 171.8	8.83e3	1.19e4	1.0000	1.000	1.47	1.50	9.28	9.281	74.2
29	32 13C3-PFPeA	266. > 221.8	1.10e4	1.54e4	1.0000	0.747	2.44	2.45	8.94	11.955	95.6
30	33 13C3-PFBS	302. > 98.8	1.37e3	1.54e4	1.0000	0.101	2.70	2.71	1.12	11.010	88.1
31	Work Order 171228M2-1	315 > 269.8	3.60e3	1.54e4	1.0000	0.601	3.20	3.21	2.93	4.876	97.6

70-130

50-150

Dataset: U:\Q4.PRO\results\171228M2\171228M2-2.qld

Last Altered: Thursday, December 28, 2017 12:56:59 Pacific Standard Time

Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

Name: 171228M2\_2, Date: 28-Dec-2017, Time: 12:46:34, ID: ST171228M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpa	367.2 > 321.8	8.01e3	1.54e4	1.0000	0.676	3.80	3.81	6.51	9.619	77.0
33	36 18O2-PFHxS	403.0 > 102.6	1.06e3	3.40e3	1.0000	0.347	3.95	3.95	3.88	11.201	89.6
34	37 13C2-6:2 FTS	429.1 > 408.9	2.66e3	1.30e4	1.0000	0.210	4.26	4.26	2.57	12.232	97.9
35	38 13C2-PFOA	414.9 > 369.7	1.19e4	1.30e4	1.0000	0.990	4.32	4.31	11.4	11.537	92.3
36	39 13C5-PFNA	468.2 > 422.9	1.08e4	1.03e4	1.0000	0.845	4.75	4.73	13.1	15.481	123.9
37	40 13C8-PFOA	506.1 > 77.7	2.21e3	1.21e4	1.0000	0.199	4.81	4.81	2.27	11.389	91.1
38	41 13C8-PFOS	507.0 > 79.9	2.42e3	3.89e3	1.0000	0.865	4.83	4.81	7.79	9.005	72.0
39	42 13C2-PFDA	515.1 > 469.9	9.29e3	9.50e3	1.0000	0.886	5.11	5.09	12.2	13.789	110.3
40	43 13C2-8:2 FTS	529.1 > 508.7	1.45e3	1.54e4	1.0000	0.136	5.09	5.07	1.17	8.649	69.2
41	44 d3-N-MeFOSAA	573.3 > 419	6.50e3	1.21e4	1.0000	0.409	5.26	5.23	6.68	16.354	130.8
42	45 d5-N-EtFOSAA	589.3 > 419	5.05e3	1.21e4	1.0000	0.474	5.42	5.38	5.20	10.968	87.7
43	46 13C2-PFUdA	565 > 519.8	1.25e4	1.21e4	1.0000	0.928	5.43	5.41	12.9	13.842	110.7
44	47 13C2-PFDoA	615.0 > 569.7	7.95e3	1.21e4	1.0000	0.636	5.70	5.68	8.18	12.858	102.9
45	48 d3-N-MeFOSA	515.2 > 168.9	1.72e4	1.21e4	1.0000	0.112	5.80	5.86	17.7	158.777	105.9
46	49 13C2-PFTeDA	714.8 > 669.6	2.25e3	1.21e4	1.0000	0.163	6.16	6.12	2.31	14.202	113.6
47	50 d5-N-ETFOSA	531.1 > 168.9	2.67e4	1.21e4	1.0000	0.170	6.16	6.21	27.4	161.876	107.9
48	51 13C2-PFHxDA	815 > 769.7	2.02e3	1.21e4	1.0000	0.394	6.48	6.45	2.08	5.290	105.8
49	52 d7-N-MeFOSE	623.1 > 58.9	2.23e4	1.21e4	1.0000	0.148	6.30	6.29	23.0	154.664	103.1
50	53 d9-N-EtFOSE	639.2 > 58.8	2.72e4	1.21e4	1.0000	0.154	6.42	6.44	28.0	181.606	121.1
51	54 13C3-PFBA	217. > 171.8	1.19e4	1.19e4	1.0000		1.47	1.49	12.5		
52	55 13C5-PFHxA	318 > 272.9	1.54e4	1.54e4	1.0000	1.000	3.20	3.21	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.40e3	3.40e3	1.0000	1.000	3.95	3.95	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.30e4	1.30e4	1.0000	1.000	4.32	4.31	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.03e4	1.03e4	1.0000	1.000	4.75	4.73	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.89e3	3.89e3	1.0000	1.000	4.83	4.81	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	9.50e3	9.50e3	1.0000	1.000	5.11	5.09	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.21e4	1.21e4	1.0000	1.000	5.43	5.40	12.5	12.500	100.0

50-150  
↓

Dataset: Untitled

Last Altered: Thursday, December 28, 2017 15:53:21 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:55:10 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Compound name: PFBA

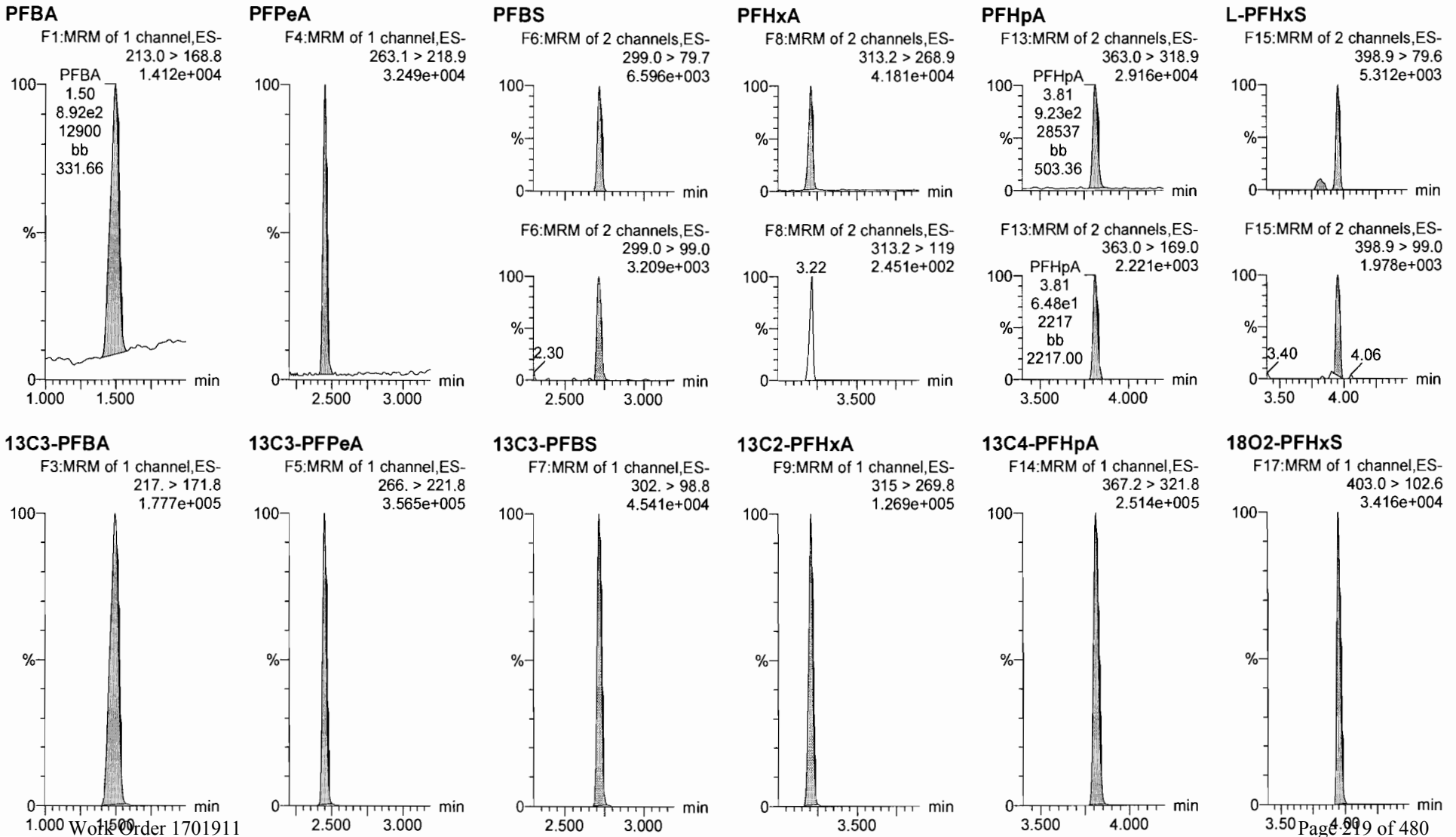
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2	171228M2_2	ST171228M2-1 PFC CS0 17L2608	28-Dec-17	12:46:34
3	171228M2_3	B7L0145-BS1 OPR 0.125	28-Dec-17	12:57:43
4	171228M2_4	B7L0088-BS1 OPR 0.125	28-Dec-17	13:08:54
5	171228M2_5	IPA	28-Dec-17	13:20:05
6	171228M2_6	B7L0088-BLK1 Method Blank 0.125	28-Dec-17	13:31:16
7	171228M2_7	B7L0145-MS1 Matrix Spike 0.11652	28-Dec-17	13:42:26
8	171228M2_8	B7L0145-MSD1 Matrix Spike Dup 0.11629	28-Dec-17	13:53:36
9	171228M2_9	B7L0145-BS1 OPR 0.125	28-Dec-17	14:05:33
10	171228M2_10	1701761-01@5X GENBM-12-SB01-0.5-1-111...	28-Dec-17	14:16:40
11	171228M2_11	1701761-05@5X GENBM-01-SB02-0.5-1-111...	28-Dec-17	14:27:51
12	171228M2_12	1701761-09@5X GENBM-11-SB03-0.5-1-111...	28-Dec-17	14:39:01
13	171228M2_13	1701761-12@5X GENBM-10-SB03-0.5-1-111...	28-Dec-17	14:50:12
14	171228M2_14	1701841-06 OF-FB-120117 0.11813	28-Dec-17	15:01:23
15	171228M2_15	1701841-07 OF-EB-120117 0.12048	28-Dec-17	15:12:34
16	171228M2_16	IPA	28-Dec-17	15:23:45
17	171228M2_17	ST171228M2-2 PFC CS3 17L2611	28-Dec-17	15:34:56
18	171228M2_18	IPA	28-Dec-17	15:46:06

Dataset: U:\Q4.PRO\results\171228M2\171228M2-2.qld

Last Altered: Thursday, December 28, 2017 12:56:59 Pacific Standard Time  
Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 11:43:33  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_2, Date: 28-Dec-2017, Time: 12:46:34, ID: ST171228M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

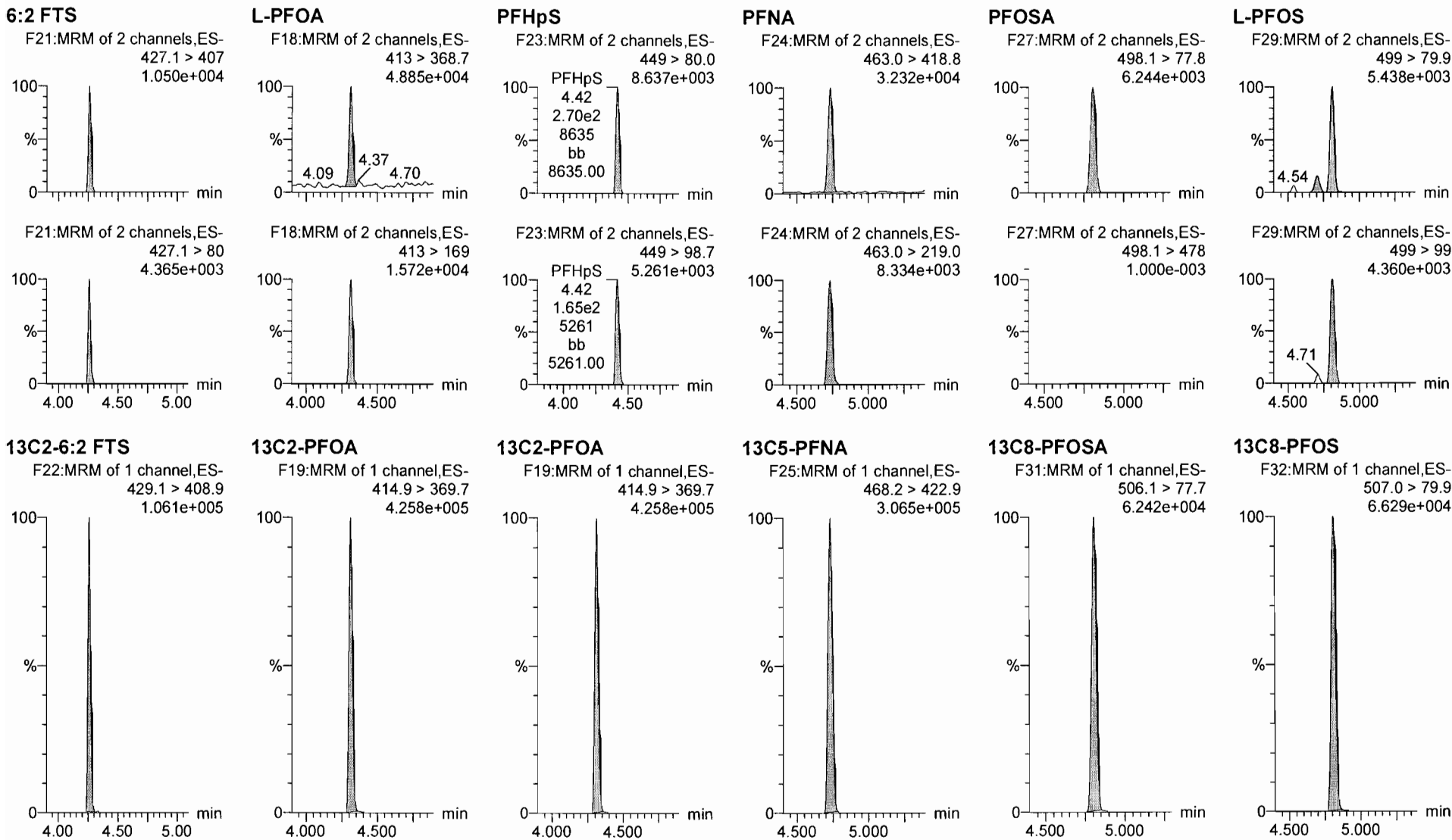


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Last Altered: Thursday, December 28, 2017 12:56:59 Pacific Standard Time

Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

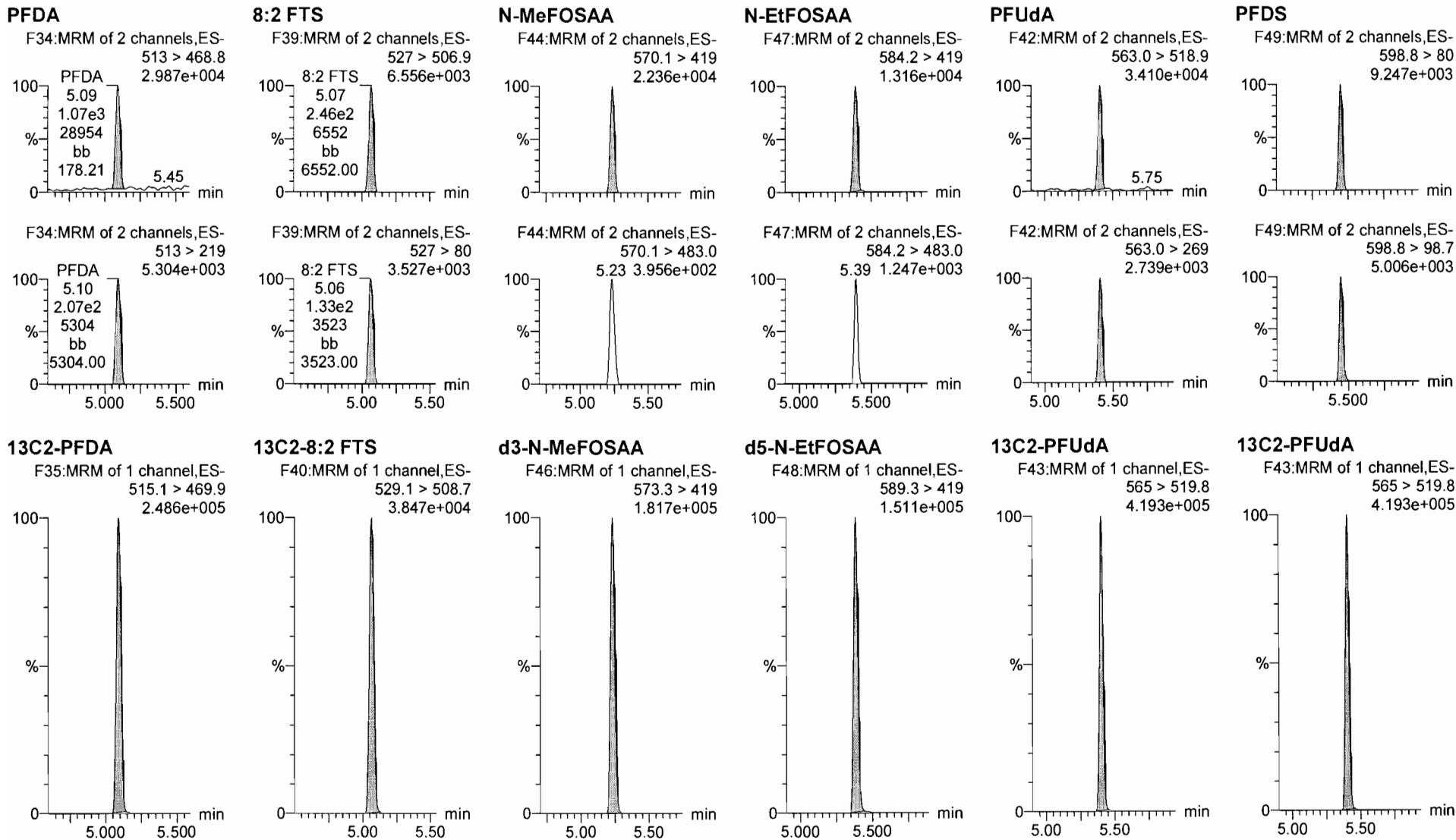
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Dataset: U:\Q4.PRO\results\171228M2\171228M2-2.qld

Last Altered: Thursday, December 28, 2017 12:56:59 Pacific Standard Time  
Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

Name: 171228M2\_2, Date: 28-Dec-2017, Time: 12:46:34, ID: ST171228M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608





Dataset: U:\Q4.PRO\results\171228M2\171228M2-2.qld

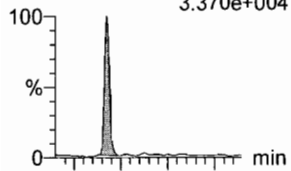
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Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

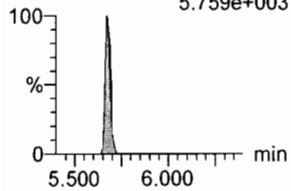
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**PFD<sub>o</sub>A**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
3.370e+004

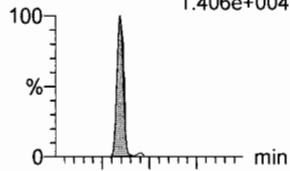


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
5.759e+003

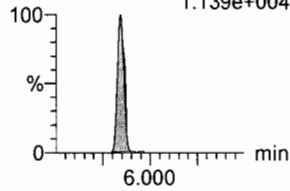


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
1.406e+004

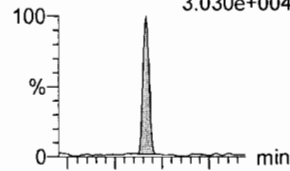


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.139e+004

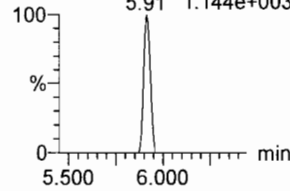


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
3.030e+004

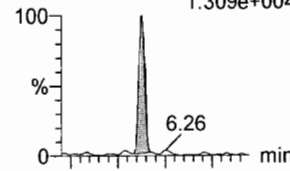


F56:MRM of 2 channels,ES-  
662.9 > 319  
1.144e+003

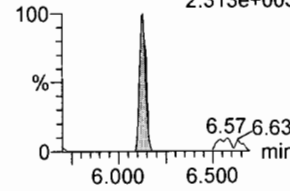


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
1.309e+004

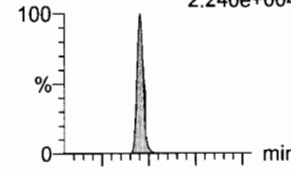


F57:MRM of 2 channels,ES-  
712.9 > 369  
2.313e+003

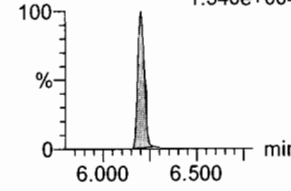


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.240e+004

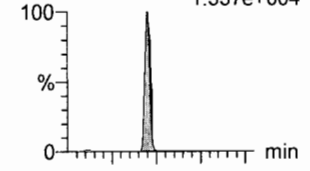


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.540e+004

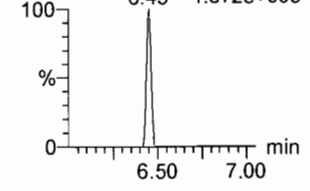


**PFH<sub>x</sub>DA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.337e+004

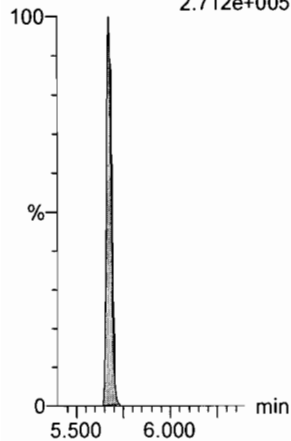


F59:MRM of 2 channels,ES-  
813.1 > 219  
1.872e+003



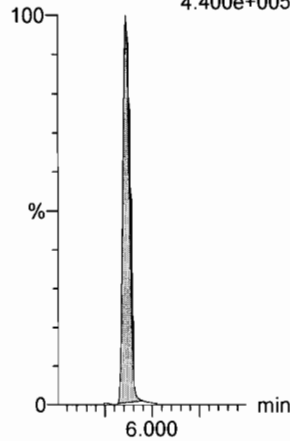
**13C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.712e+005



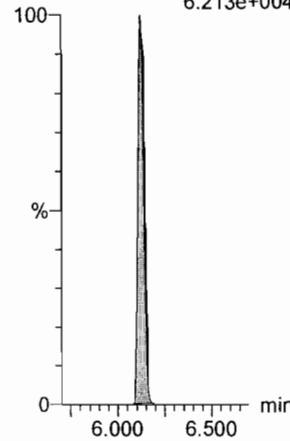
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
4.400e+005



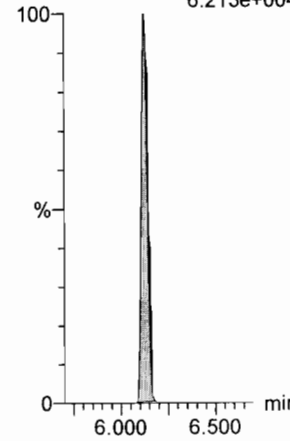
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
6.213e+004



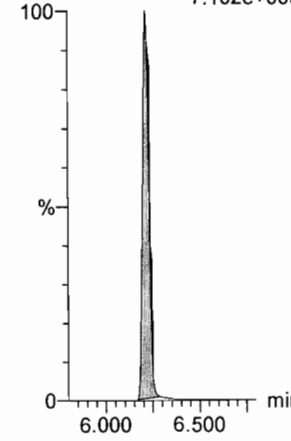
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
6.213e+004



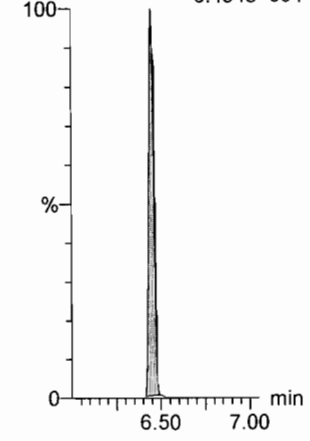
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
7.102e+005



**13C2-PFH<sub>x</sub>DA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
6.434e+004

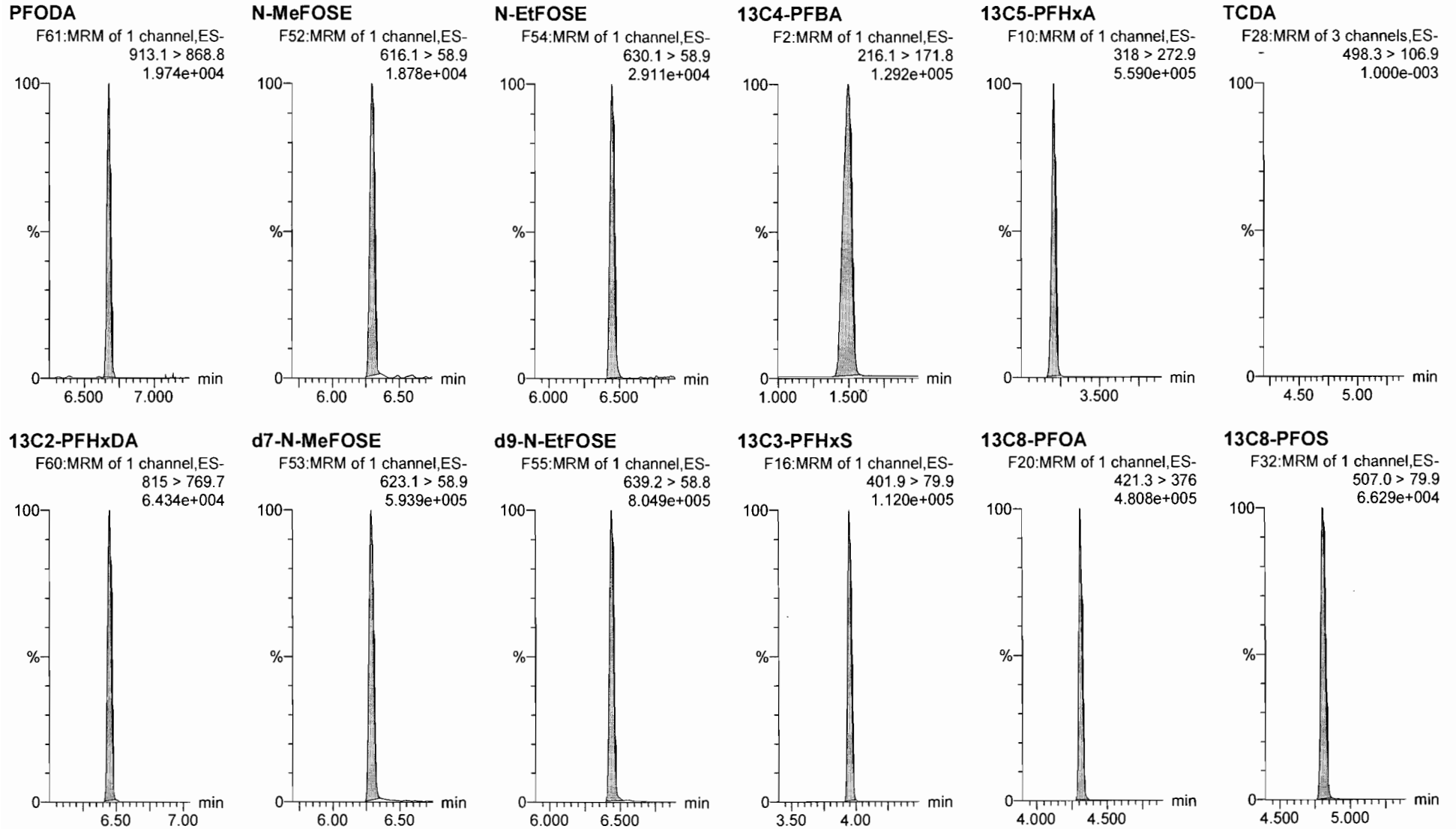


Dataset: U:\Q4.PRO\results\171228M2\171228M2-2.qld

Last Altered: Thursday, December 28, 2017 12:56:59 Pacific Standard Time

Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

Name: 171228M2\_2, Date: 28-Dec-2017, Time: 12:46:34, ID: ST171228M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608



Dataset: U:\Q4.PRO\results\171228M2\171228M2-2.qld

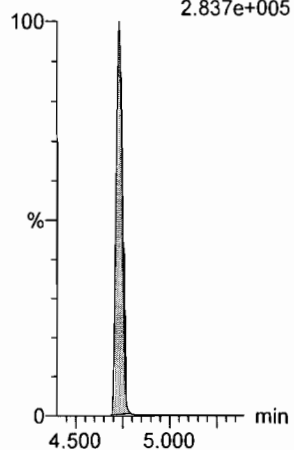
Last Altered: Thursday, December 28, 2017 12:56:59 Pacific Standard Time

Printed: Thursday, December 28, 2017 12:58:16 Pacific Standard Time

Name: 171228M2\_2, Date: 28-Dec-2017, Time: 12:46:34, ID: ST171228M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

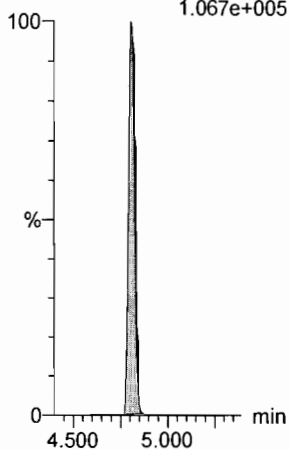
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.837e+005



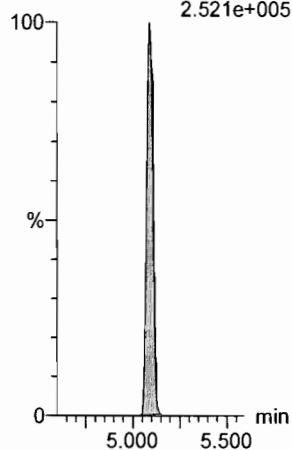
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
1.067e+005



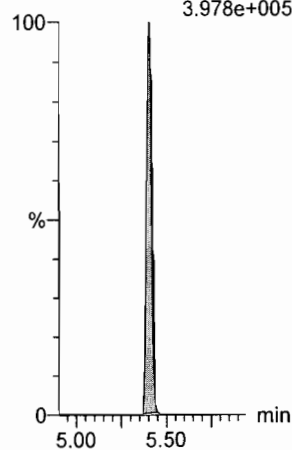
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.521e+005



**13C7-PFUDa**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.978e+005



Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery	Out
1	1 PFBA	213.0 > 168.8	1.04e4	9.42e3		1.47	1.50	13.8	9.82	98.2	NO	
2	2 PFPeA	263.1 > 218.9	1.03e4	9.94e3		2.44	2.45	13.0	11.0	110.1	NO	
3	3 PFBS	299.0 > 79.7	2.70e3	1.51e3		2.70	2.72	22.3	9.43	94.3	NO	
4	4 PFHxA	313.2 > 268.9	1.33e4	3.75e3		3.20	3.21	17.7	8.70	87.0	NO	
5	5 PFHpA	363.0 > 318.9	1.12e4	8.41e3		3.80	3.82	16.7	10.2	101.7	NO	
6	6 L-PFHxS	398.9 > 79.6	2.13e3	1.28e3		3.95	3.95	20.7	9.73	97.3	NO	
7	8 6:2 FTS	427.1 > 407	2.52e3	1.26e4		4.26	4.26	2.49	10.8	108.3	NO	
8	9 L-PFOA	413 > 368.7	1.23e4	1.26e4		4.32	4.31	12.2	9.60	96.0	NO	
9	11 PFHpS	449 > 80.0	3.33e3	1.26e4		4.43	4.42	3.29	11.2	111.8	NO	
10	12 PFNA	463.0 > 418.8	1.38e4	1.01e4		4.75	4.74	17.1	11.2	111.5	NO	
11	13 PFOSA	498.1 > 77.8	2.85e3	2.48e3		4.81	4.81	14.4	11.5	115.0	NO	
12	14 L-PFOS	499 > 79.9	3.75e3	3.15e3		4.83	4.81	14.9	12.0	119.9	NO	
13	16 PFDA	513 > 468.8	1.26e4	1.02e4		5.11	5.10	15.5	10.4	103.6	NO	
14	17 8:2 FTS	527 > 506.9	2.85e3	1.02e4		5.09	5.07	3.51	10.4	104.0	NO	
15	18 N-MeFOSAA	570.1 > 419	9.04e3	5.27e3		5.26	5.24	21.5	12.7	127.5	NO	
16	19 N-EIFOSAA	584.2 > 419	6.08e3	5.81e3		5.42	5.39	13.1	10.9	108.5	NO	
17	20 PFUdA	563.0 > 518.9	1.13e4	1.10e4		5.43	5.41	12.9	12.4	124.4	NO	
18	21 PFDS	598.8 > 80	3.55e3	1.10e4		5.50	5.45	4.03	12.7	126.7	NO	
19	22 PFDoA	612.9 > 569.0	1.32e4	8.03e3		5.70	5.68	20.5	11.6	116.1	NO	
20	23 N-MeFOSA	512.1 > 168.9	7.09e3	1.69e4		5.77	5.85	62.9	55.6	111.2	NO	
21	24 PFTrDA	662.9 > 618.9	1.43e4	8.03e3		5.95	5.92	22.3	13.5	134.9	YES	
22	25 PFTeDA	712.9 > 668.8	5.86e3	1.93e3		6.16	6.13	37.9	14.4	143.8	YES	
23	26 N-EIFOSA	526.1 > 168.9	9.52e3	2.62e4		6.15	6.21	54.4	51.6	103.1	NO	
24	27 PFHxDA	813.1 > 768.6	4.26e3	2.53e3		6.48	6.45	8.40	9.26	92.6	NO	
25	28 PFODA	913.1 > 868.8	5.03e3	2.53e3		6.70	6.67	9.93	7.08	70.8	NO	
26	29 N-MeFOSE	616.1 > 58.9	7.36e3	2.09e4		6.30	6.30	52.7	43.6	87.2	NO	
27	30 N-EIFOSE	630.1 > 58.9	1.14e4	2.02e4		6.42	6.45	84.8	63.9	127.8	NO	
28	31 13C3-PFBA	216.1 > 171.8	9.42e3	1.17e4	0.771	1.47	1.50	10.1	13.0	104.3	NO	
29	32 13C3-PFPeA	266. > 221.8	9.94e3	1.43e4	0.747	2.44	2.45	8.70	11.6	93.2	NO	
30	33 13C3-PFBS	302. > 98.8	1.51e3	1.43e4	0.101	2.70	2.72	1.32	13.0	104.2	NO	
31	Work Order 1719A	315 > 269.8	3.75e3	1.43e4	0.601	3.20	3.21	3.28	5.46	109.2	NO	

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 JWA 12/28/17  
 SD-108  
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Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

#	Name	Trace	Area	IS Area	RRF	Pred RT	RT	y Axis Resp	Conc.	%Rec	Recovery	Out
32	35	13C4-PFHpA	367.2 > 321.8	8.41e3	1.43e4	0.676	3.80	3.81	7.37	10.9	87.1	NO
33	36	18O2-PFHxS	403.0 > 102.6	1.28e3	3.74e3	0.347	3.95	3.95	4.28	12.4	98.9	NO
34	37	13C2-6:2 FTS	429.1 > 408.9	3.03e3	1.47e4	0.210	4.26	4.26	2.56	12.2	97.8	NO
35	38	13C2-PFOA	414.9 > 369.7	1.26e4	1.47e4	0.990	4.32	4.32	10.7	10.8	86.6	NO
36	39	13C5-PFNA	468.2 > 422.9	1.01e4	1.20e4	0.845	4.75	4.73	10.5	12.4	99.5	NO
37	40	13C8-PFOSA	506.1 > 77.7	2.48e3	1.22e4	0.199	4.81	4.81	2.54	12.7	101.9	NO
38	41	13C8-PFOS	507.0 > 79.9	3.15e3	4.31e3	0.865	4.83	4.81	9.12	10.5	84.3	NO
39	42	13C2-PFDA	515.1 > 469.9	1.02e4	1.06e4	0.886	5.11	5.10	12.0	13.6	108.4	NO
40	43	13C2-8:2 FTS	529.1 > 508.7	1.71e3	1.43e4	0.136	5.09	5.07	1.50	11.0	88.1	NO
41	44	d3-N-MeFOSAA	573.3 > 419	5.27e3	1.22e4	0.409	5.26	5.24	5.40	13.2	105.7	NO
42	45	d5-N-EtFOSAA	589.3 > 419	5.81e3	1.22e4	0.474	5.42	5.39	5.97	12.6	100.7	NO
43	46	13C2-PFUdA	565 > 519.8	1.10e4	1.22e4	0.928	5.43	5.41	11.3	12.2	97.3	NO
44	47	13C2-PFDoA	615.0 > 569.7	8.03e3	1.22e4	0.636	5.70	5.68	8.24	13.0	103.6	NO
45	48	d3-N-MeFOSA	515.2 > 168.9	1.69e4	1.22e4	0.112	5.80	5.87	17.3	155	103.6	NO
46	49	13C2-PFTeDA	714.8 > 669.6	1.93e3	1.22e4	0.163	6.16	6.13	1.98	12.2	97.4	NO
47	50	d5-N-ETFOSA	531.1 > 168.9	2.62e4	1.22e4	0.170	6.16	6.22	26.9	159	105.8	NO
48	51	13C2-PFHxDA	815 > 769.7	2.53e3	1.22e4	0.394	6.48	6.45	2.60	6.60	132.0	NO
49	52	d7-N-MeFOSE	623.1 > 58.9	2.09e4	1.22e4	0.148	6.30	6.29	21.5	145	96.5	NO
50	53	d9-N-EtFOSE	639.2 > 58.8	2.02e4	1.22e4	0.154	6.42	6.44	20.7	135	89.7	NO
51	54	13C4-PFBA	217. > 171.8	1.17e4	1.17e4	1.000	1.47	1.50	12.5	12.5	100.0	NO
52	55	13C5-PFHxA	318 > 272.9	1.43e4	1.43e4	1.000	3.20	3.21	12.5	12.5	100.0	NO
53	56	13C3-PFHxS	401.9 > 79.9	3.74e3	3.74e3	1.000	3.95	3.95	12.5	12.5	100.0	NO
54	57	13C8-PFOA	421.3 > 376	1.47e4	1.47e4	1.000	4.32	4.31	12.5	12.5	100.0	NO
55	58	13C9-PFNA	472.2 > 426.9	1.20e4	1.20e4	1.000	4.75	4.73	12.5	12.5	100.0	NO
56	59	13C4-PFOS	503 > 79.9	4.31e3	4.31e3	1.000	4.83	4.81	12.5	12.5	100.0	NO
57	60	13C6-PFDA	519.1 > 473.7	1.06e4	1.06e4	1.000	5.11	5.10	12.5	12.5	100.0	NO
58	61	13C7-PFUdA	570.1 > 524.8	1.22e4	1.22e4	1.000	5.43	5.41	12.5	12.5	100.0	NO

SD-18  
↓

Dataset: Untitled

Last Altered: Thursday, December 28, 2017 15:53:21 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:55:10 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171228M2_1	IPA	28-Dec-17	12:35:24
2	171228M2_2	ST171228M2-1 PFC CS0 17L2608	28-Dec-17	12:46:34
3	171228M2_3	B7L0145-BS1 OPR 0.125	28-Dec-17	12:57:43
4	171228M2_4	B7L0088-BS1 OPR 0.125	28-Dec-17	13:08:54
5	171228M2_5	IPA	28-Dec-17	13:20:05
6	171228M2_6	B7L0088-BLK1 Method Blank 0.125	28-Dec-17	13:31:16
7	171228M2_7	B7L0145-MS1 Matrix Spike 0.11652	28-Dec-17	13:42:26
8	171228M2_8	B7L0145-MSD1 Matrix Spike Dup 0.11629	28-Dec-17	13:53:36
9	171228M2_9	B7L0145-BS1 OPR 0.125	28-Dec-17	14:05:33
10	171228M2_10	1701761-01@5X GENBM-12-SB01-0.5-1-111...	28-Dec-17	14:16:40
11	171228M2_11	1701761-05@5X GENBM-01-SB02-0.5-1-111...	28-Dec-17	14:27:51
12	171228M2_12	1701761-09@5X GENBM-11-SB03-0.5-1-111...	28-Dec-17	14:39:01
13	171228M2_13	1701761-12@5X GENBM-10-SB03-0.5-1-111...	28-Dec-17	14:50:12
14	171228M2_14	1701841-06 OF-FB-120117 0.11813	28-Dec-17	15:01:23
15	171228M2_15	1701841-07 OF-EB-120117 0.12048	28-Dec-17	15:12:34
16	171228M2_16	IPA	28-Dec-17	15:23:45
17	171228M2_17	ST171228M2-2 PFC CS3 17L2611	28-Dec-17	15:34:56
18	171228M2_18	IPA	28-Dec-17	15:46:06

Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

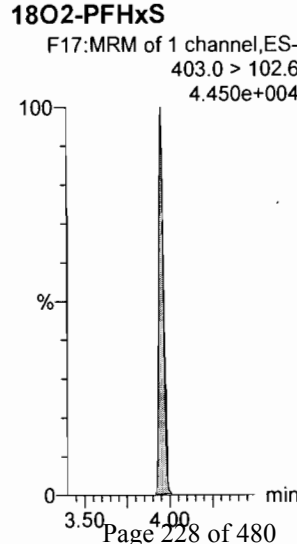
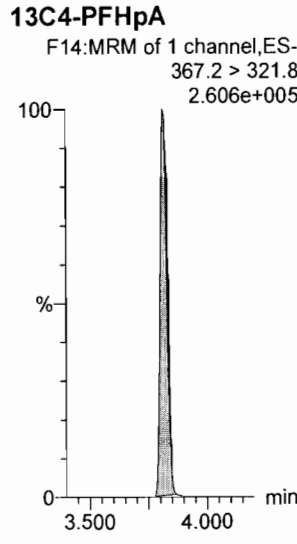
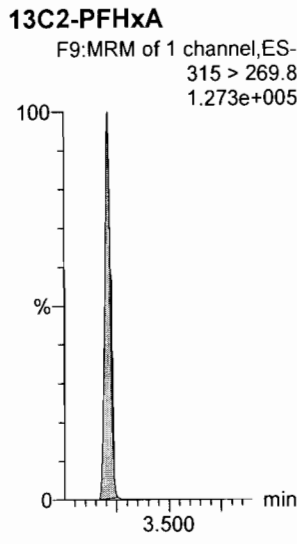
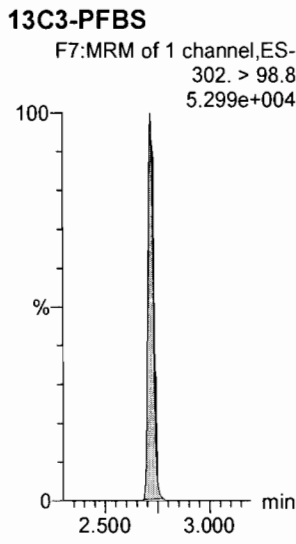
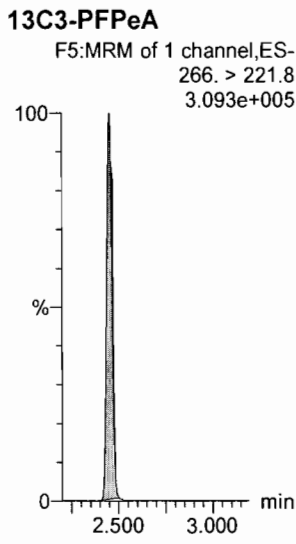
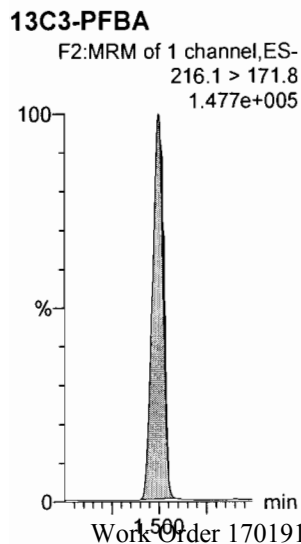
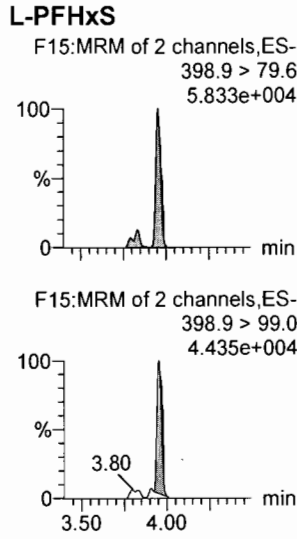
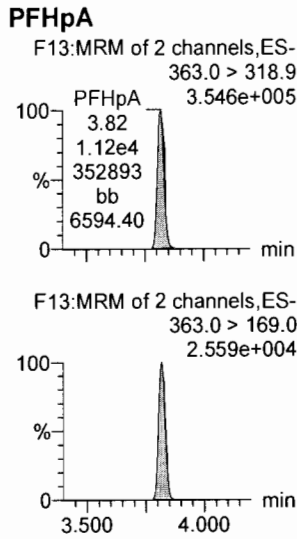
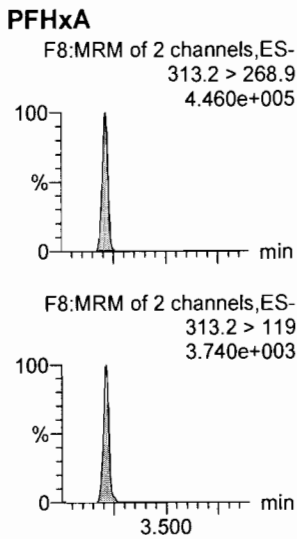
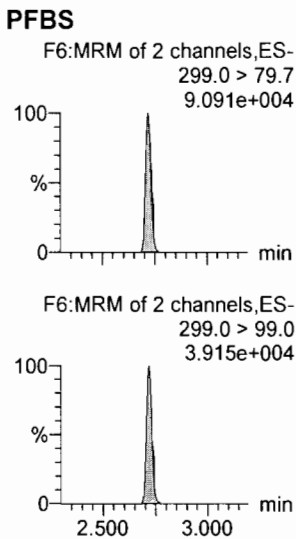
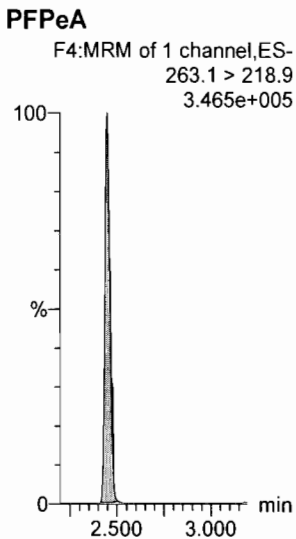
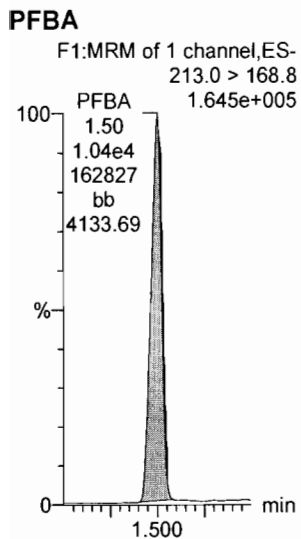
Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 14:10:02

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

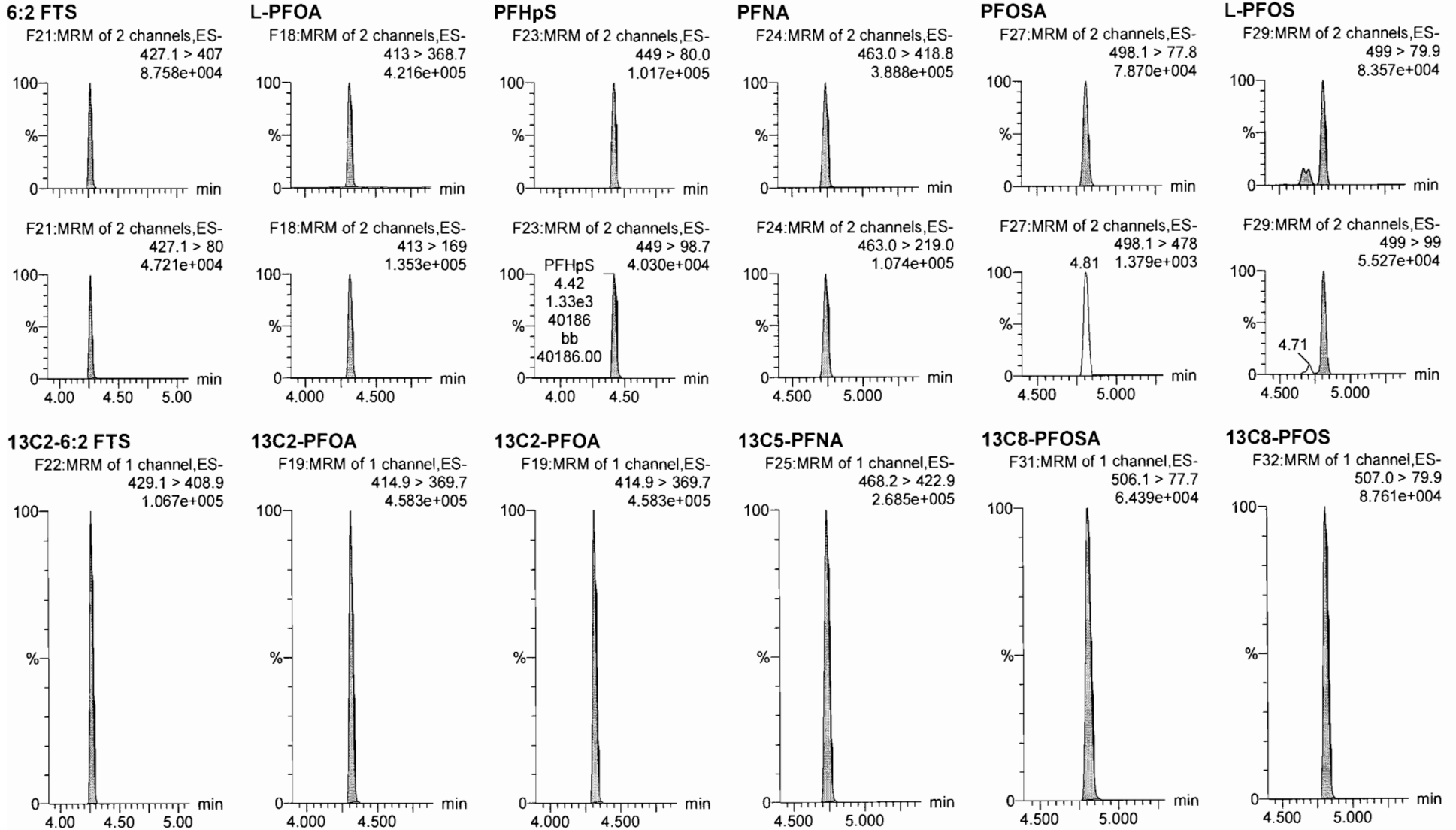


Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

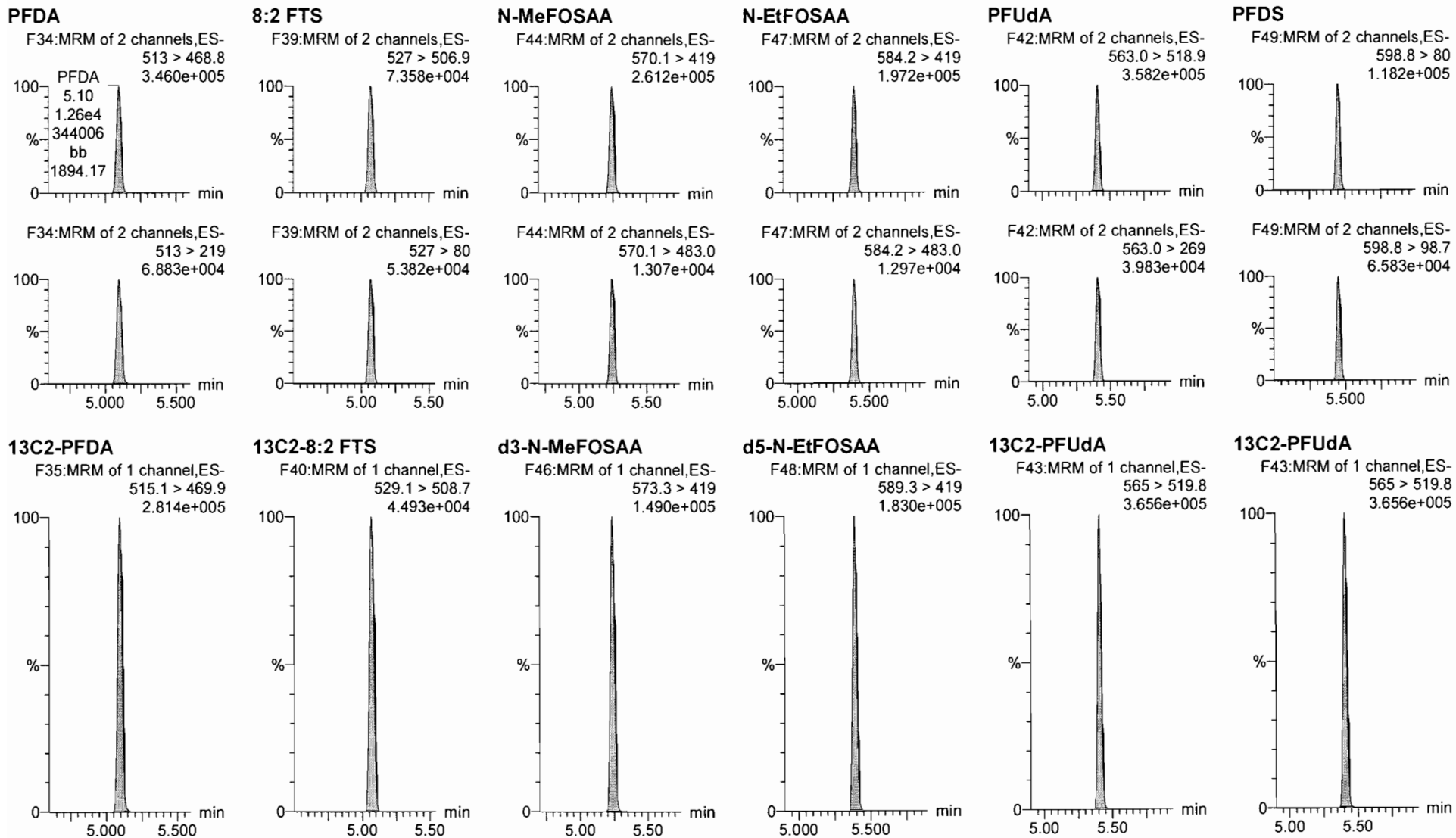




Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time  
Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

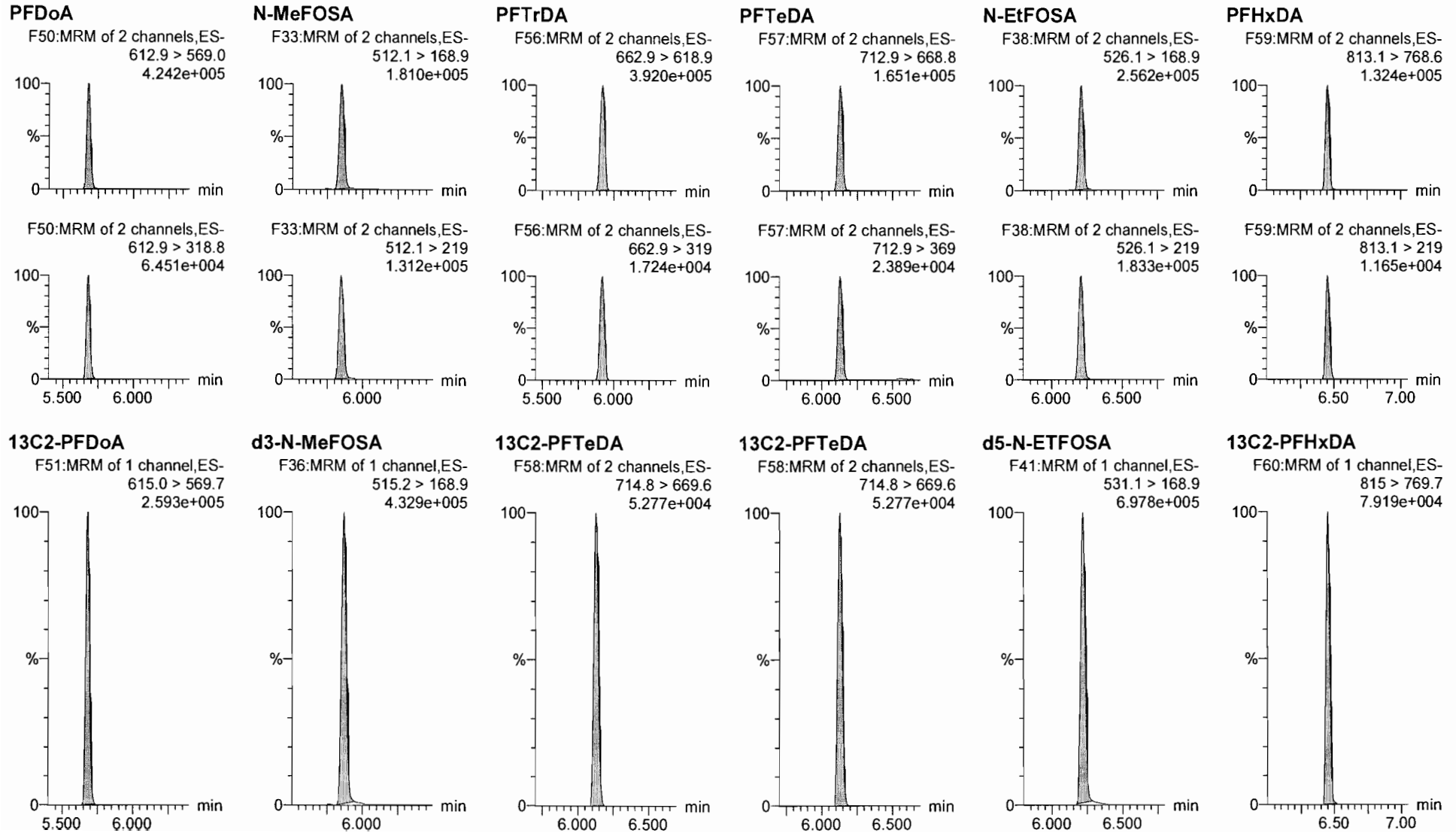
Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611



Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time  
Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

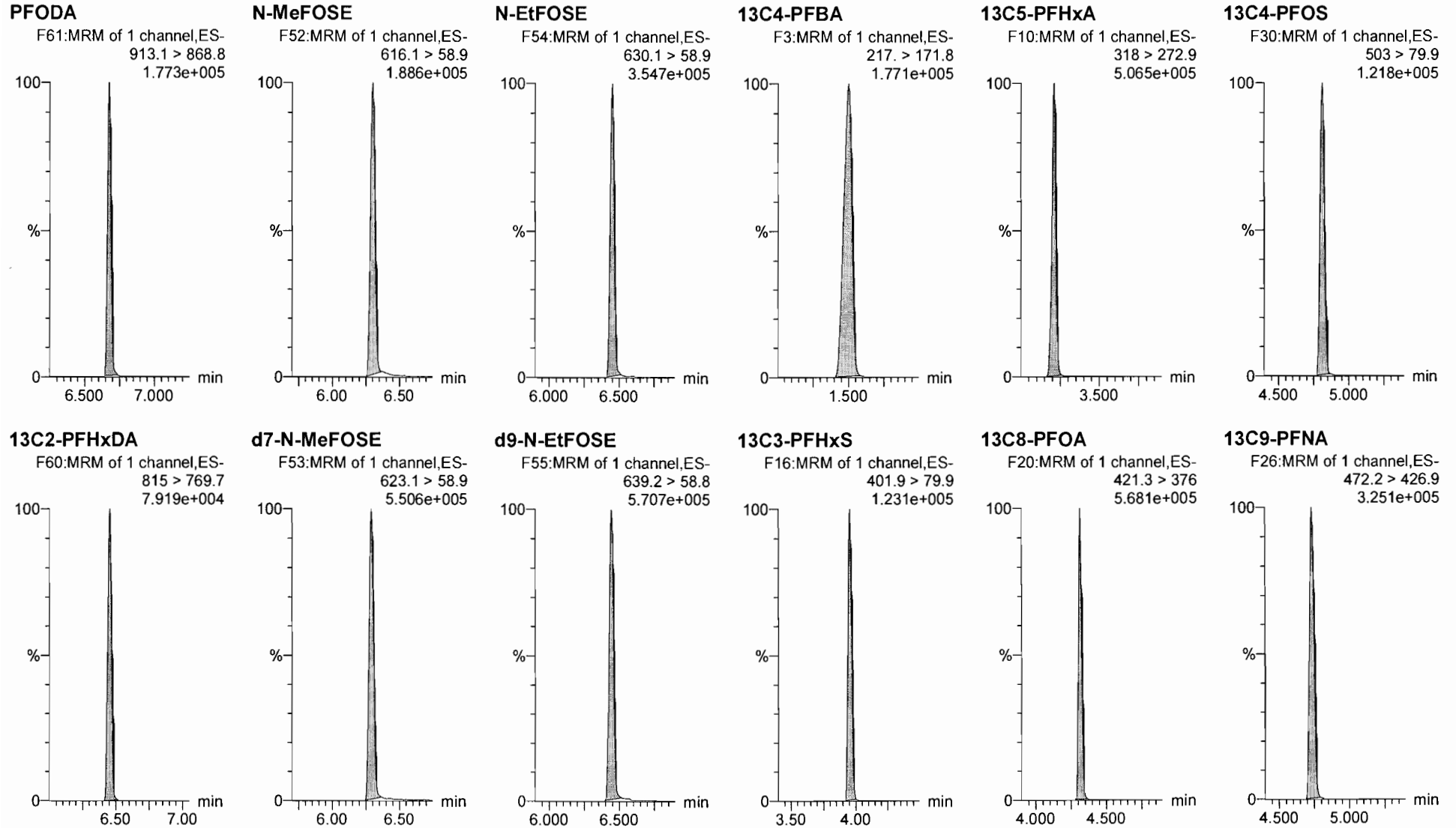


Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611



Dataset: U:\Q4.PRO\results\171228M2\171228M2-17.qld

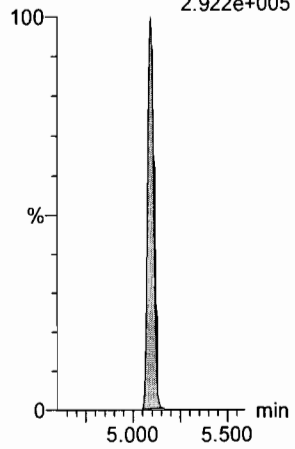
Last Altered: Thursday, December 28, 2017 15:47:19 Pacific Standard Time

Printed: Thursday, December 28, 2017 15:51:26 Pacific Standard Time

Name: 171228M2\_17, Date: 28-Dec-2017, Time: 15:34:56, ID: ST171228M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

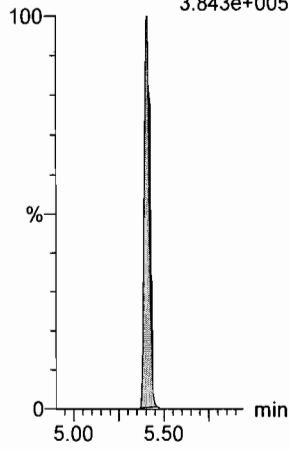
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.922e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.843e+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

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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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**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



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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

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**Compound name: PFHpS**

Coefficient of Determination: R<sup>2</sup> = 0.997237

Calibration curve: 0.000201701 \* x<sup>2</sup> + 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<sup>2</sup> = 0.999053

Calibration curve: 0.000799864 \* x<sup>2</sup> + 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<sup>2</sup> = 0.999970

Calibration curve: 8.81956e-006 \* x<sup>2</sup> + 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<sup>2</sup> = 0.995600

Calibration curve: -0.00231275 \* x<sup>2</sup> + 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	1 171223M1_3	Standard	150.000	6.23	57705.047	24640.541	29.273	128.7	-14.2	NO		NO	bb
2	2 171223M1_4	Standard	150.000	6.23	25150.836	8453.983	37.188	163.5	9.0	NO		NO	bb
3	3 171223M1_5	Standard	150.000	6.23	25447.867	9797.519	32.467	142.7	-4.8	NO		NO	bb
4	4 171223M1_6	Standard	150.000	6.22	24479.740	7830.849	39.076	171.8	14.5	NO		NO	bb
5	5 171223M1_7	Standard	150.000	6.19	27453.338	9848.424	34.845	153.2	2.1	NO		NO	bb
6	6 171223M1_8	Standard	150.000	6.19	26168.393	8961.140	36.503	160.5	7.0	NO		NO	bb
7	7 171223M1_9	Standard	150.000	6.19	24273.590	10762.859	28.191	123.9	-17.4	NO		NO	bb
8	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	1 171223M1_3	Standard	5.000	6.53	8299.851	24640.541	4.210	4.6	-7.3	NO		NO	bb
2	2 171223M1_4	Standard	5.000	6.53	3518.905	8453.983	5.203	5.7	14.5	NO		NO	bb
3	3 171223M1_5	Standard	5.000	6.53	2988.276	9797.519	3.813	4.2	-16.1	NO		NO	bb
4	4 171223M1_6	Standard	5.000	6.53	3122.260	7830.849	4.984	5.5	9.7	NO		NO	bb
5	5 171223M1_7	Standard	5.000	6.51	3385.608	9848.424	4.297	4.7	-5.4	NO		NO	bb
6	6 171223M1_8	Standard	5.000	6.51	2997.604	8961.140	4.181	4.6	-8.0	NO		NO	bb
7	7 171223M1_9	Standard	5.000	6.51	3232.275	10762.859	3.754	4.1	-17.4	NO		NO	bb
8	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



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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

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

**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

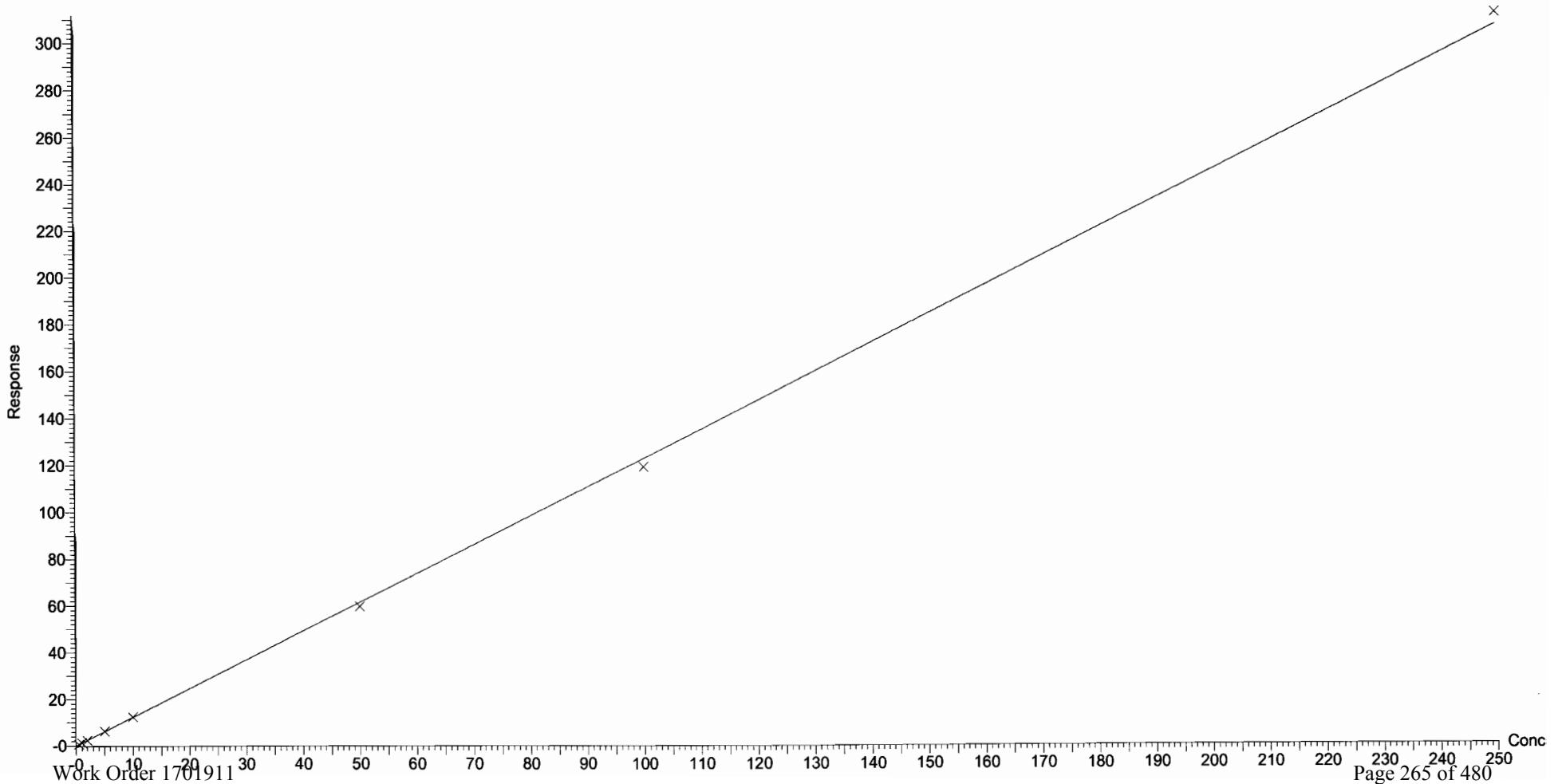
Compound name: PFBA

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

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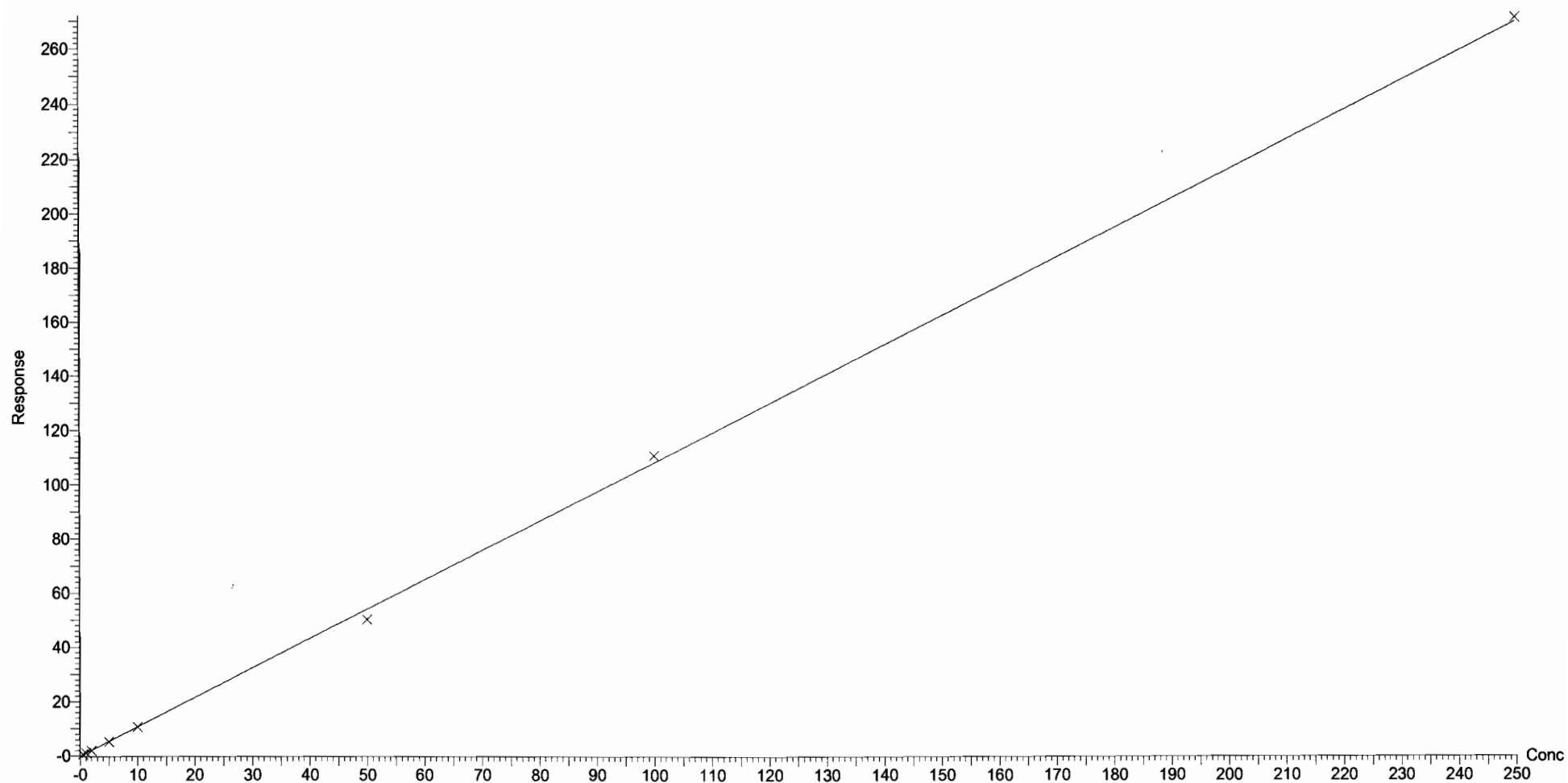
Compound name: PFPeA

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

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

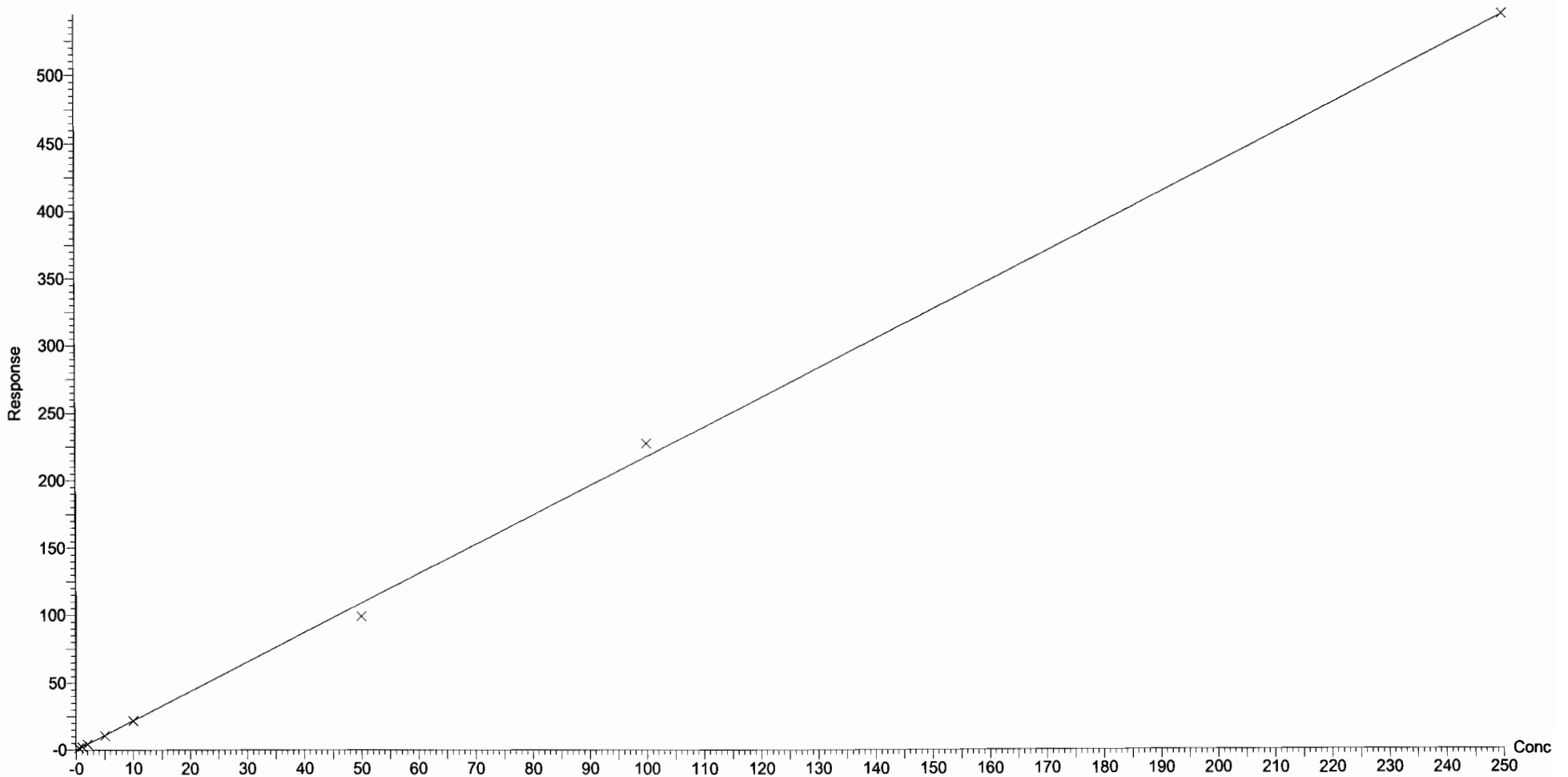
Compound name: PFBS

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

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

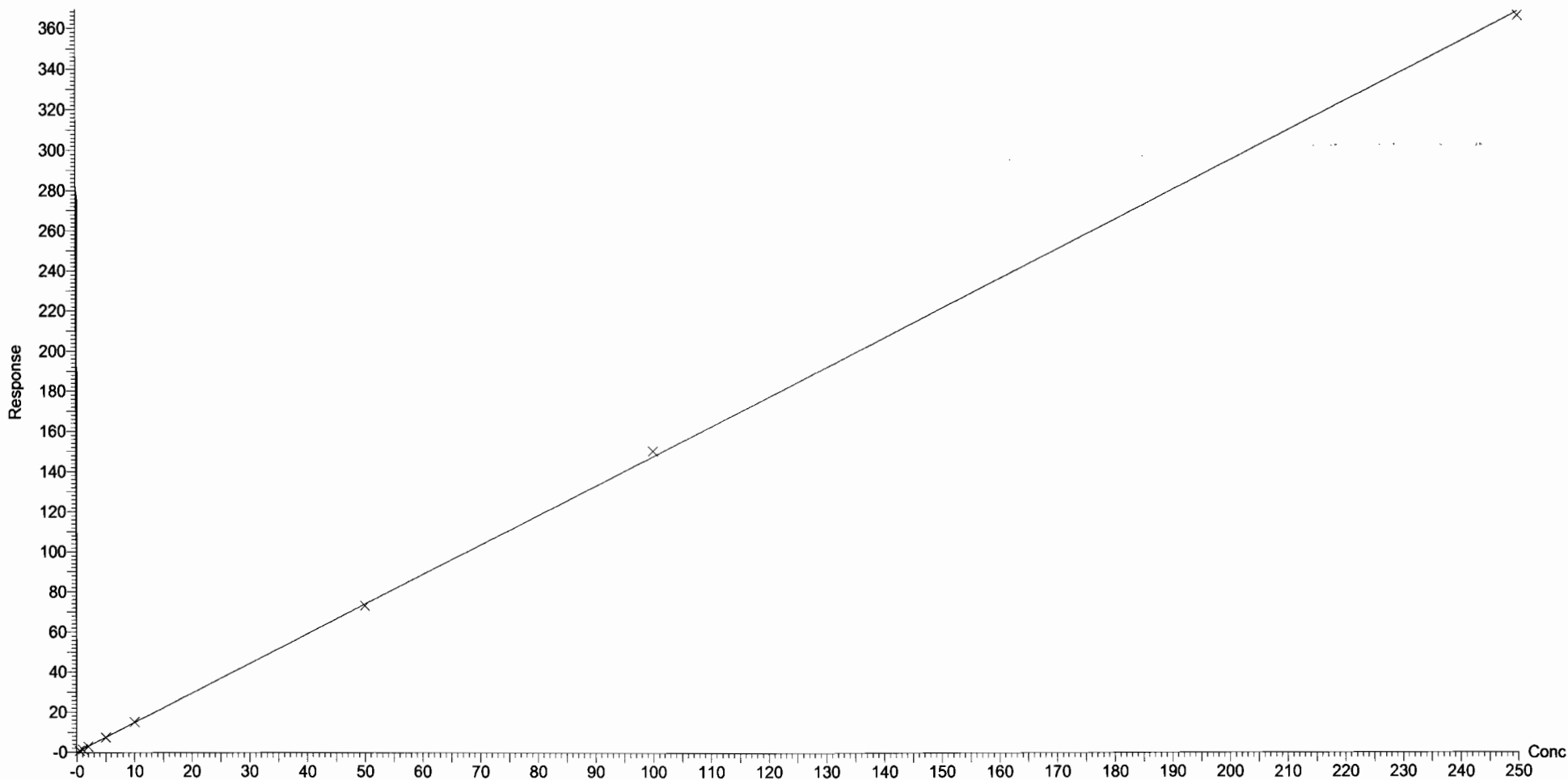
Compound name: PFHxA

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

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

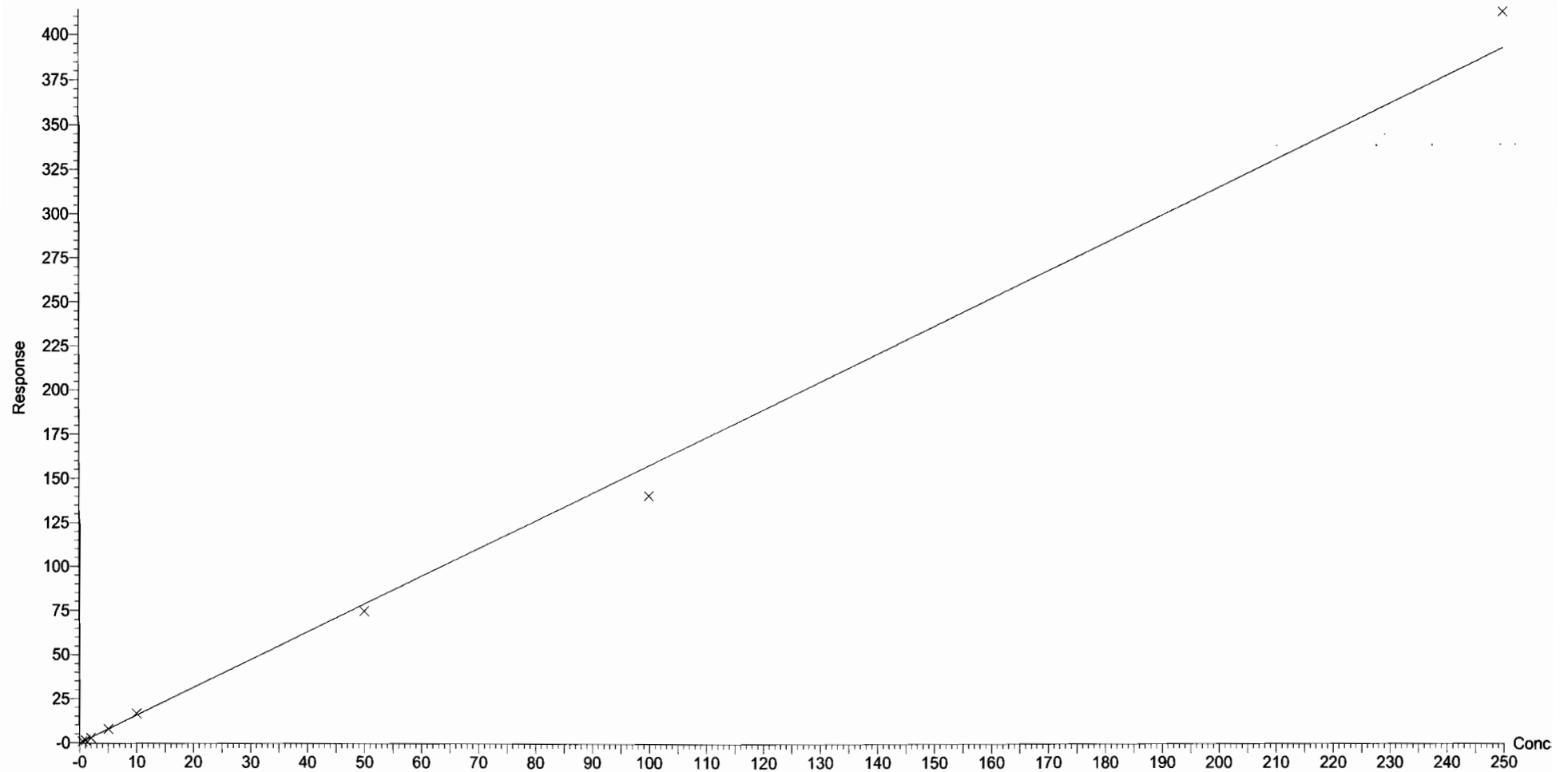
Compound name: PFHpA

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

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

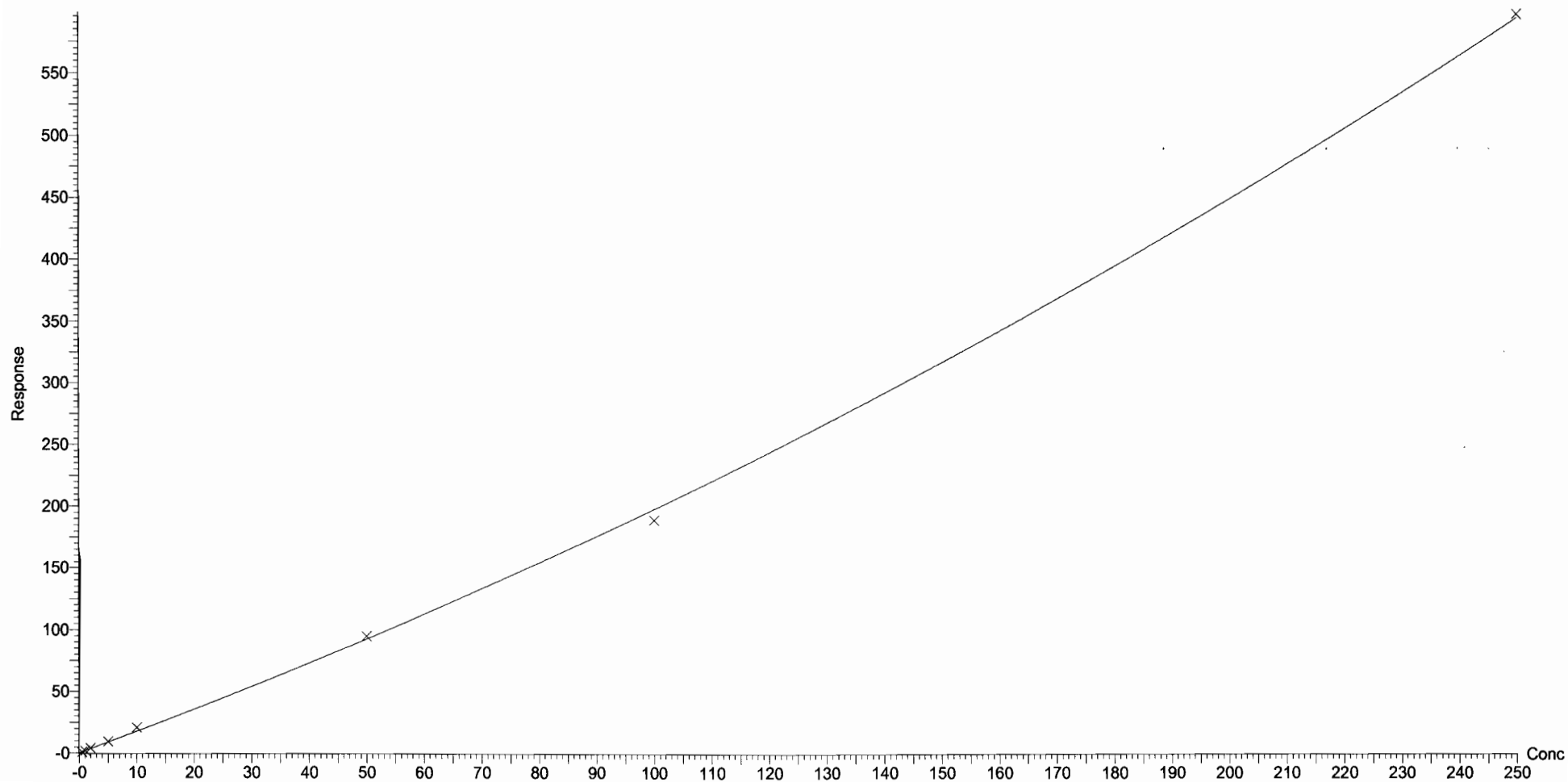
Compound name: L-PFHxS

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

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

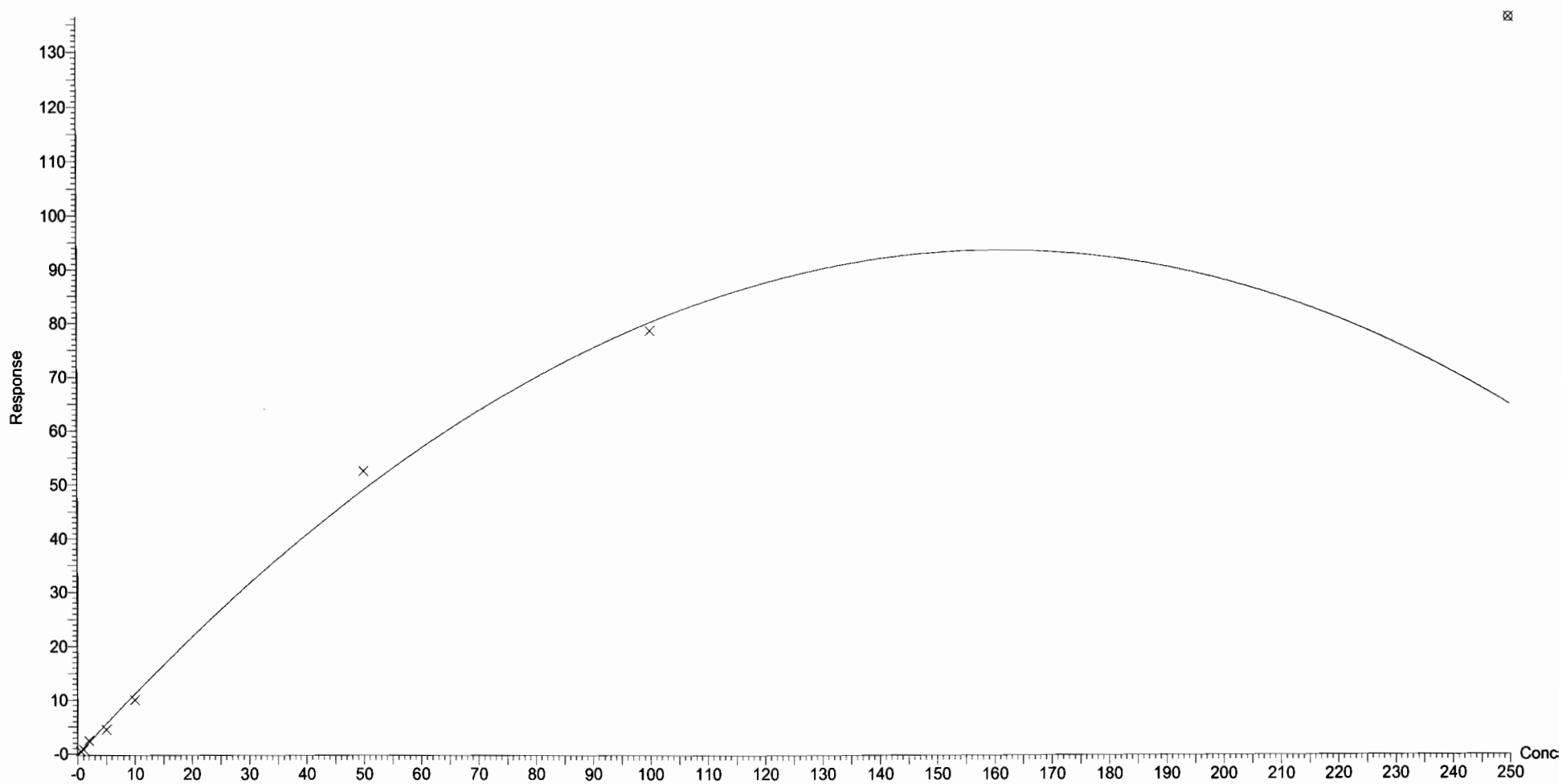
Compound name: 6:2 FTS

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 )

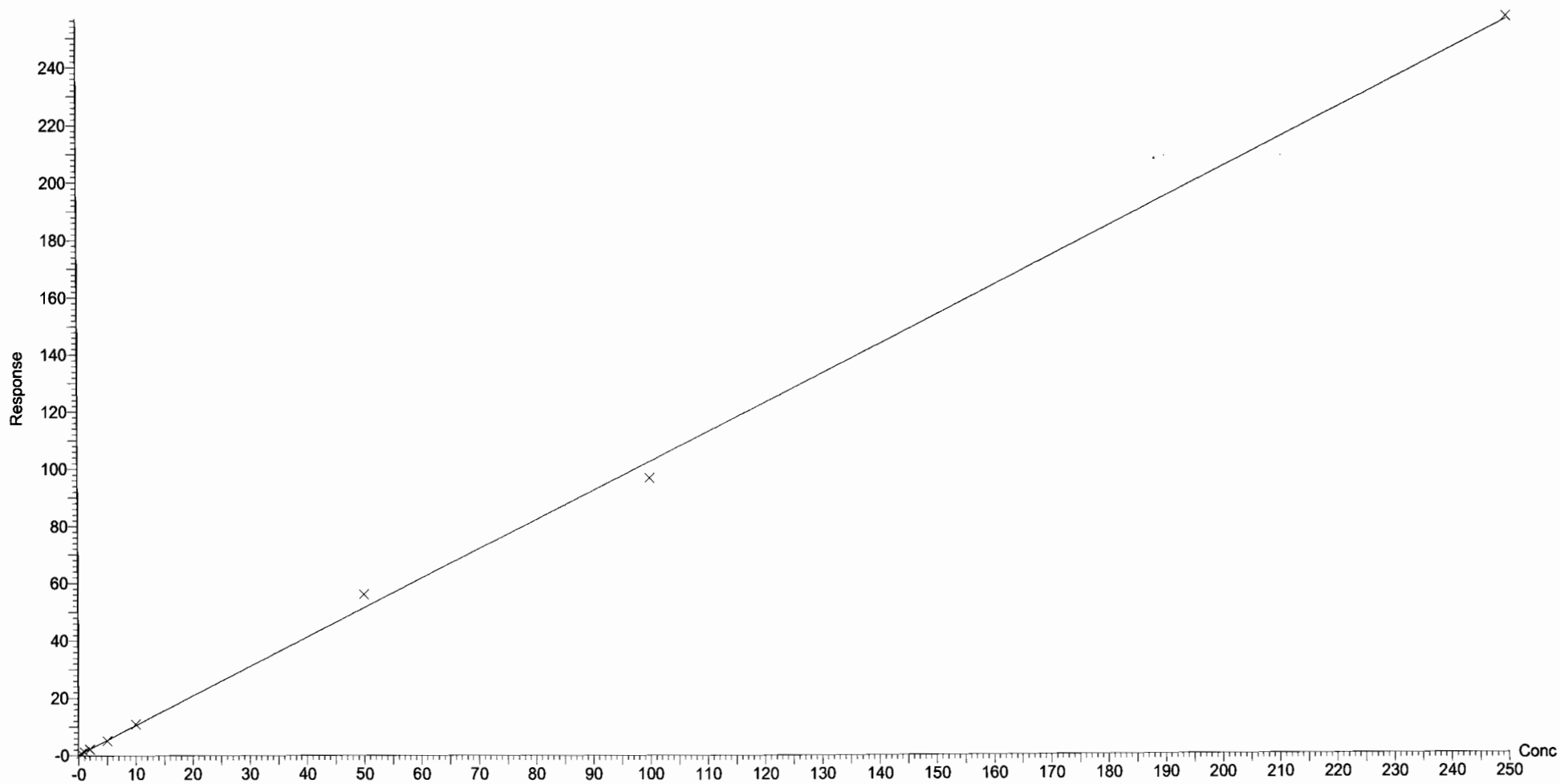
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time  
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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

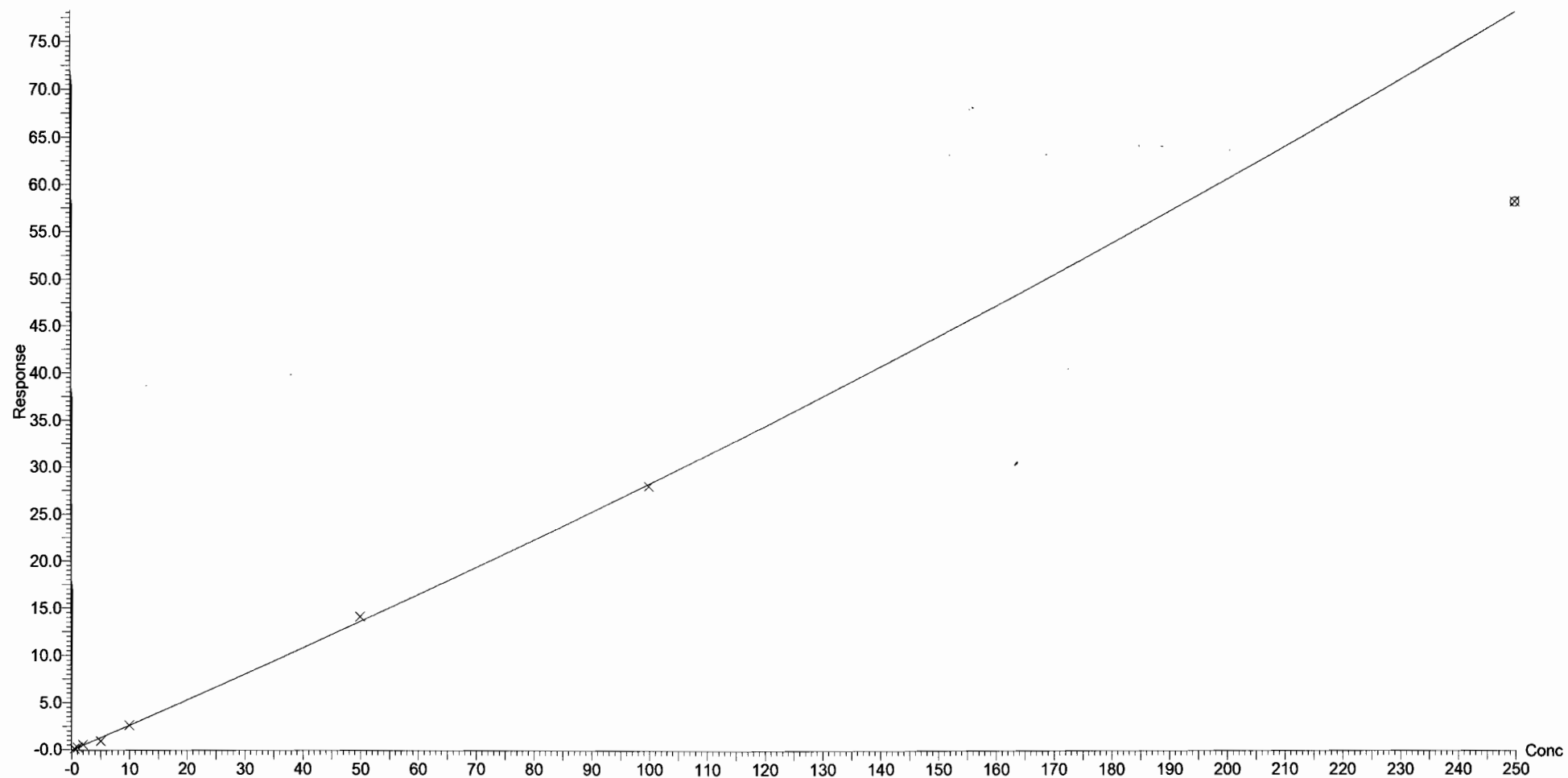
Compound name: PFHpS

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

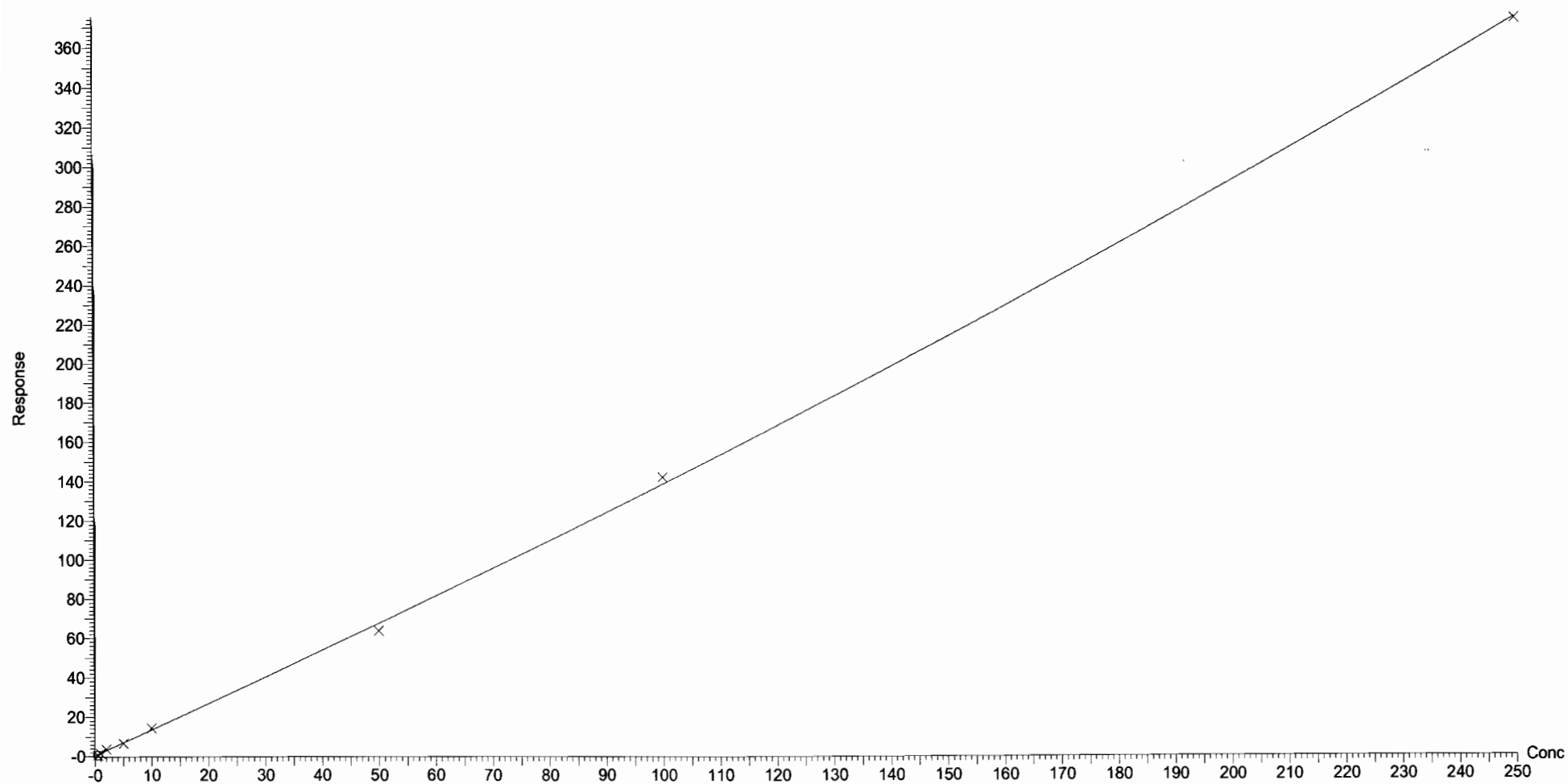
Compound name: PFNA

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

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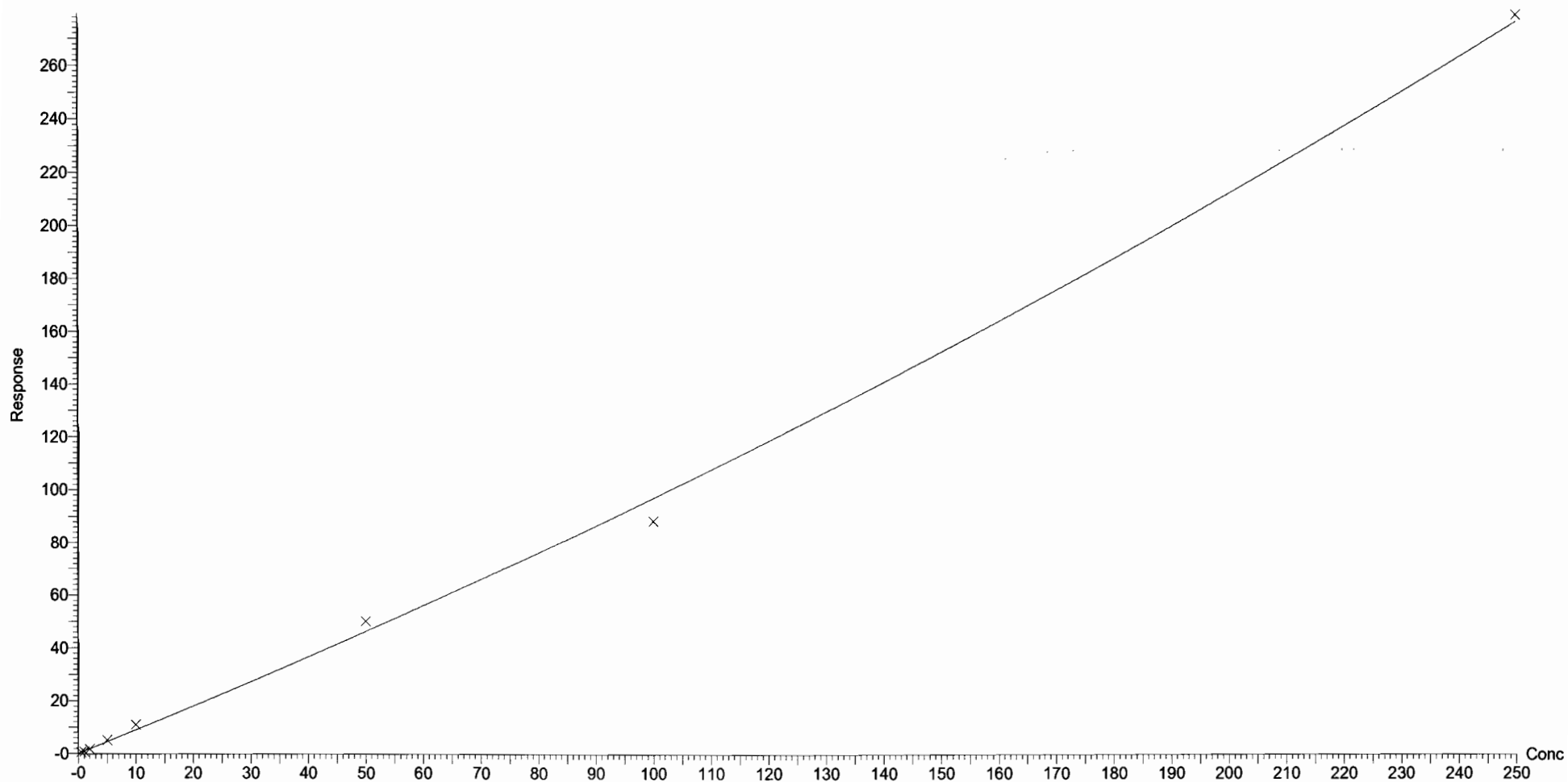
Compound name: PFOSA

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



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

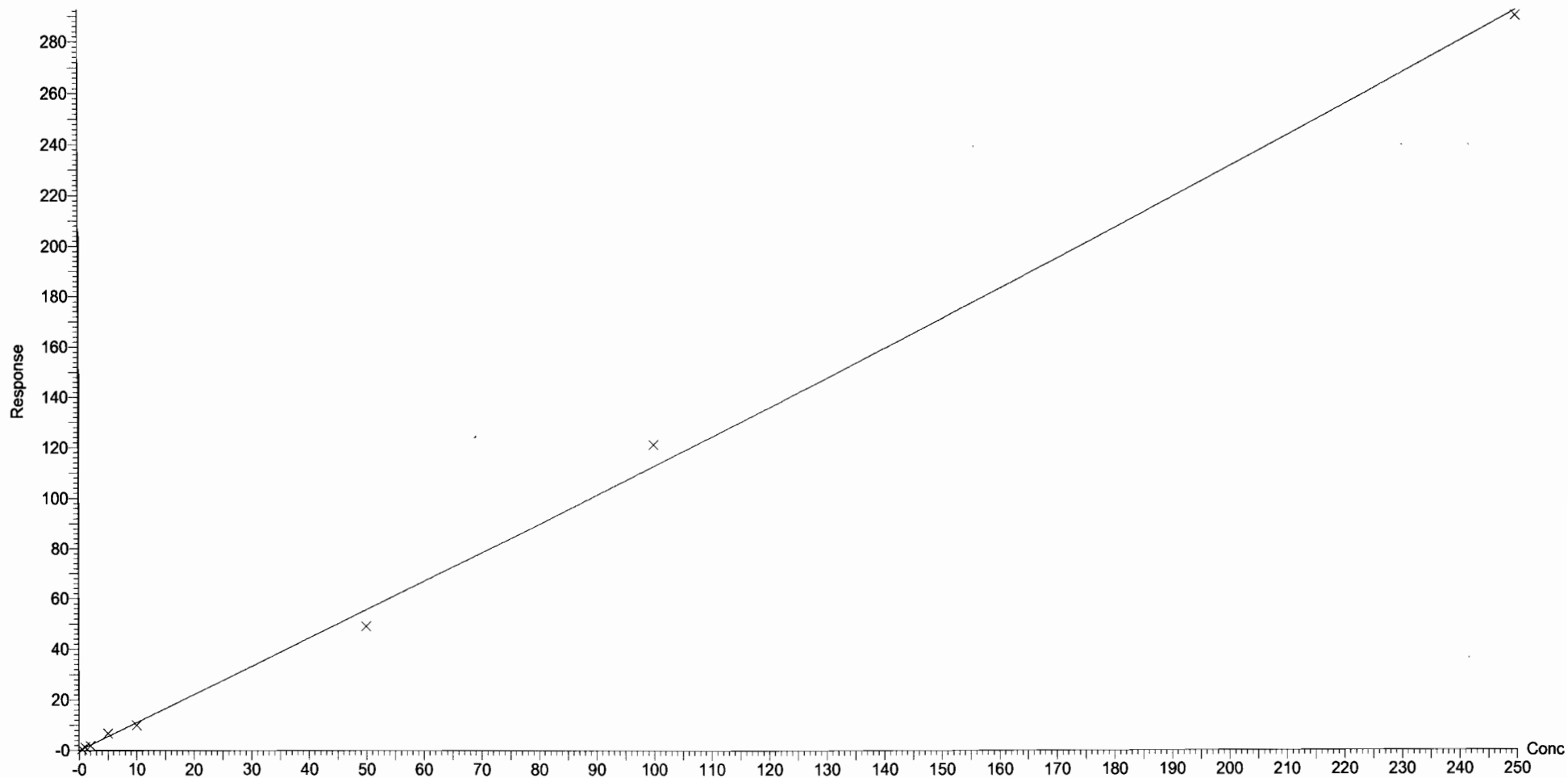
Compound name: L-PFOS

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

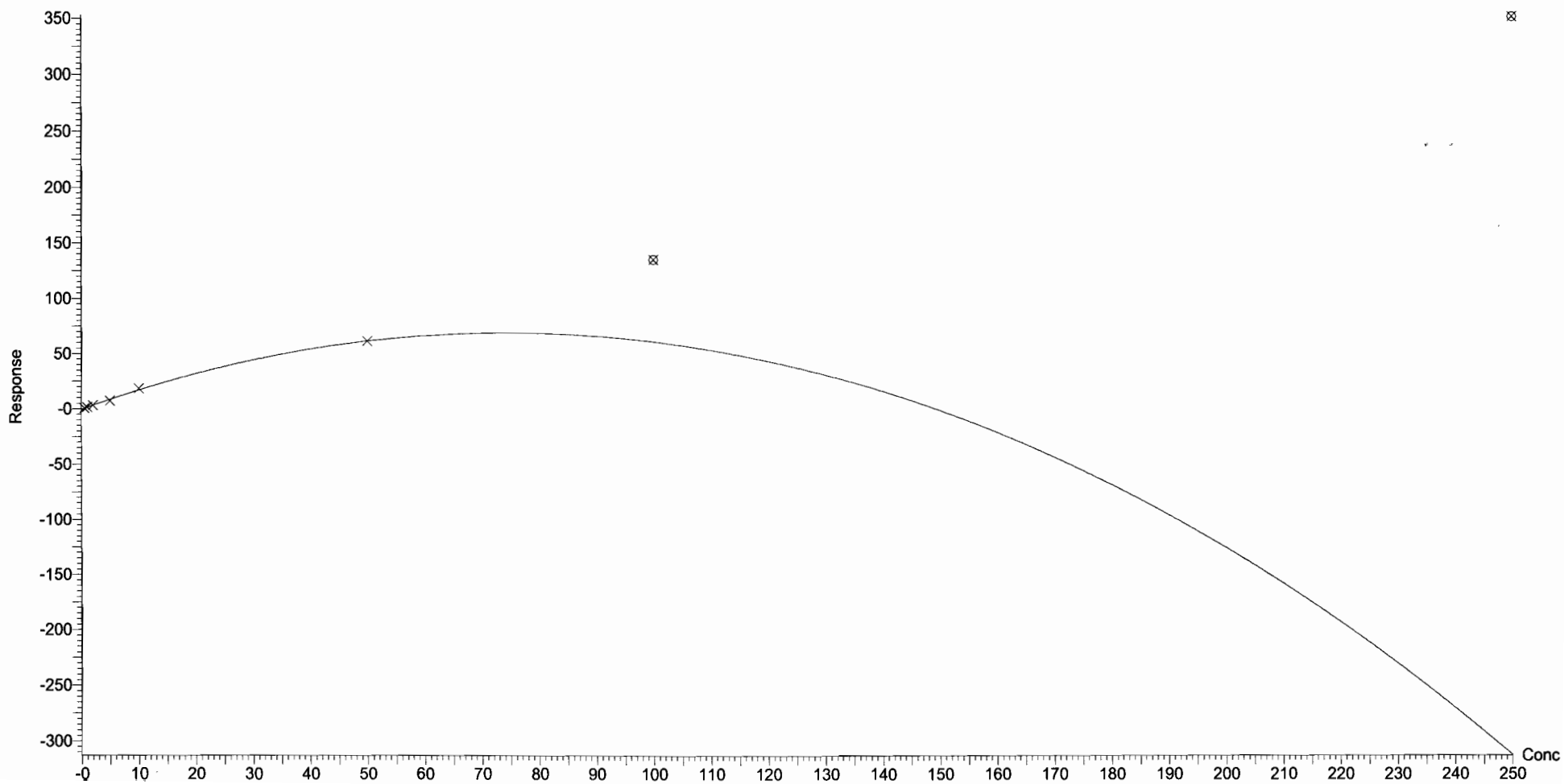


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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

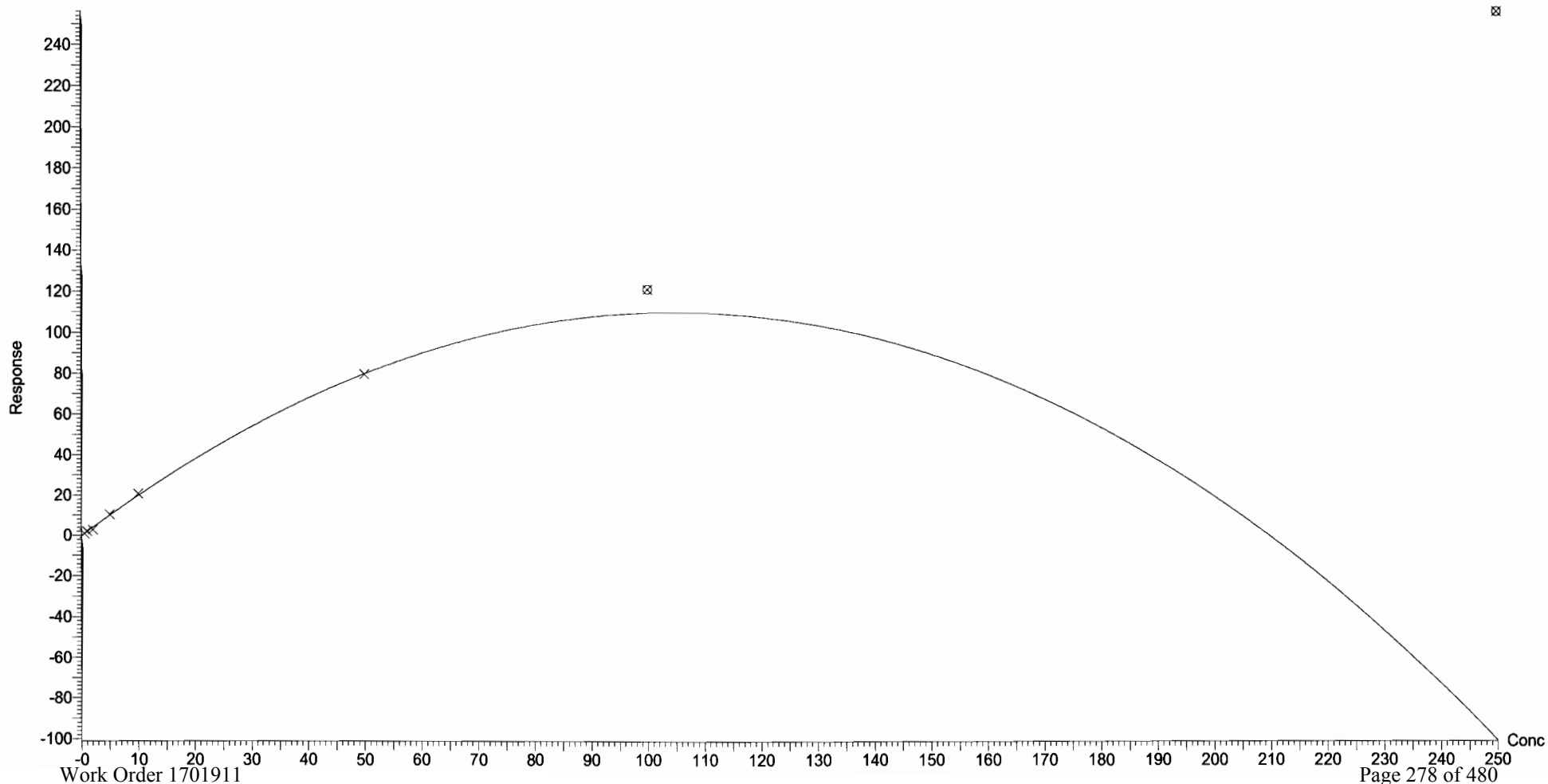
Compound name: 8:2 FTS

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

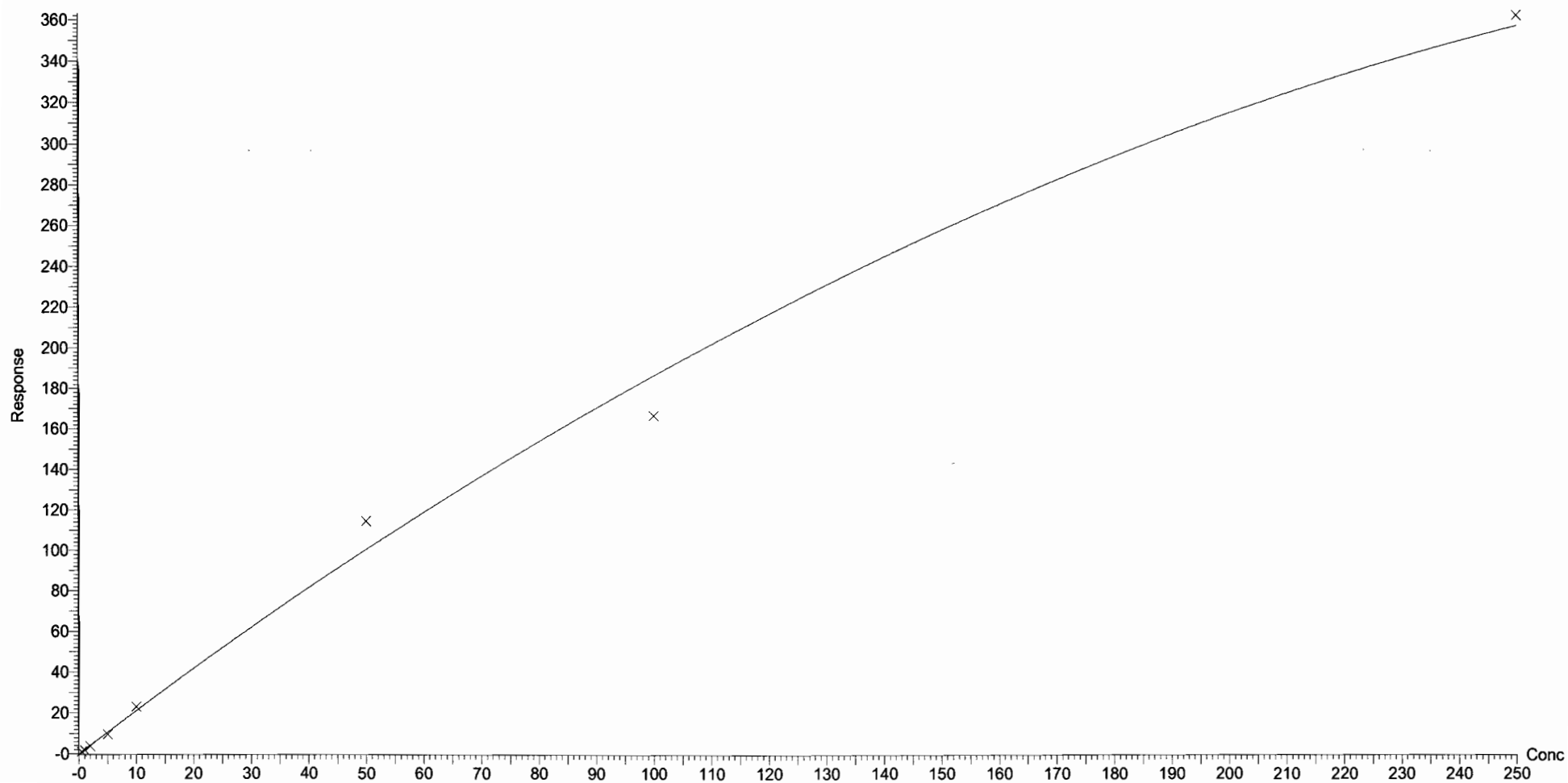
Compound name: N-MeFOSAA

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

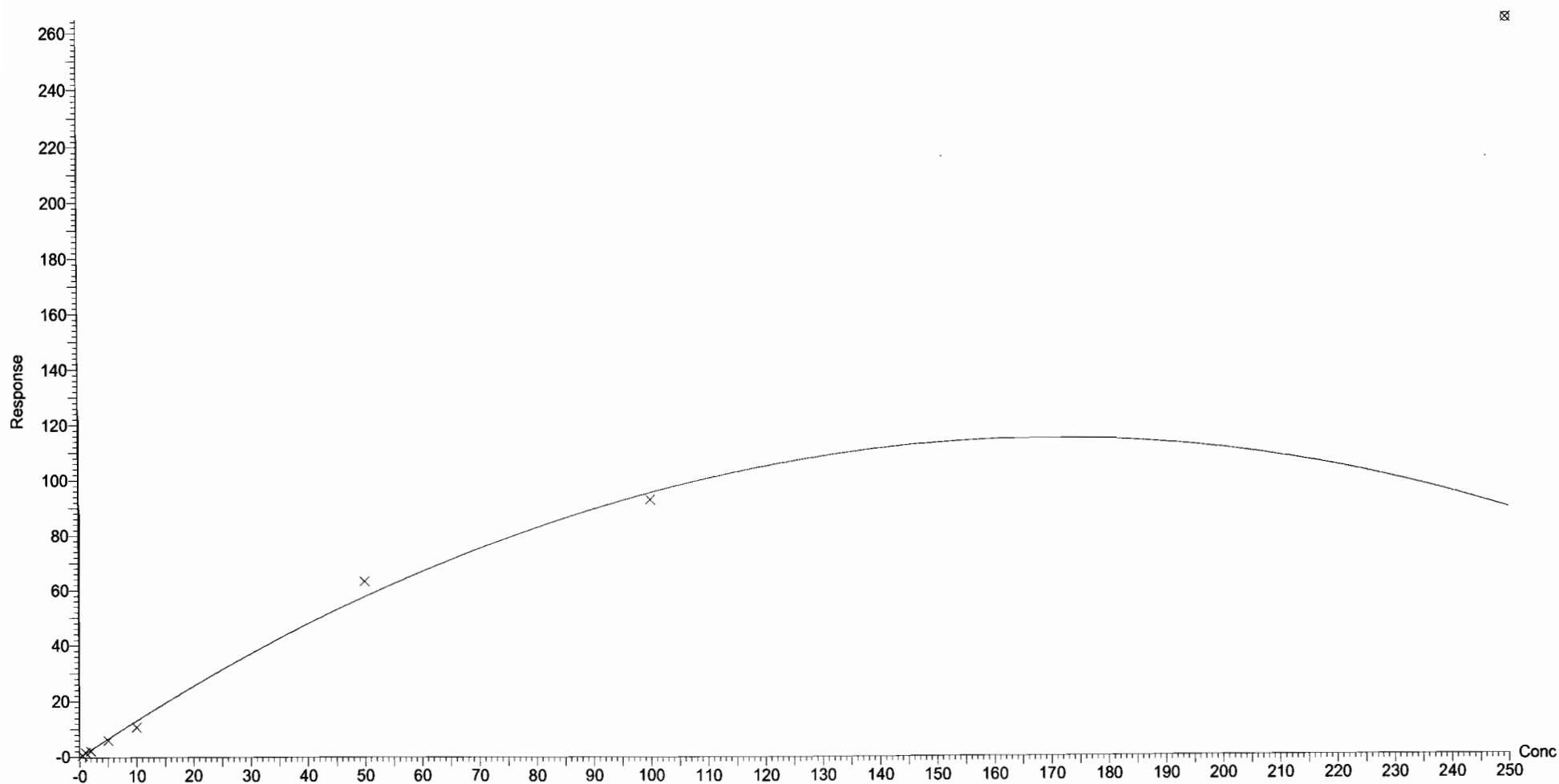


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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

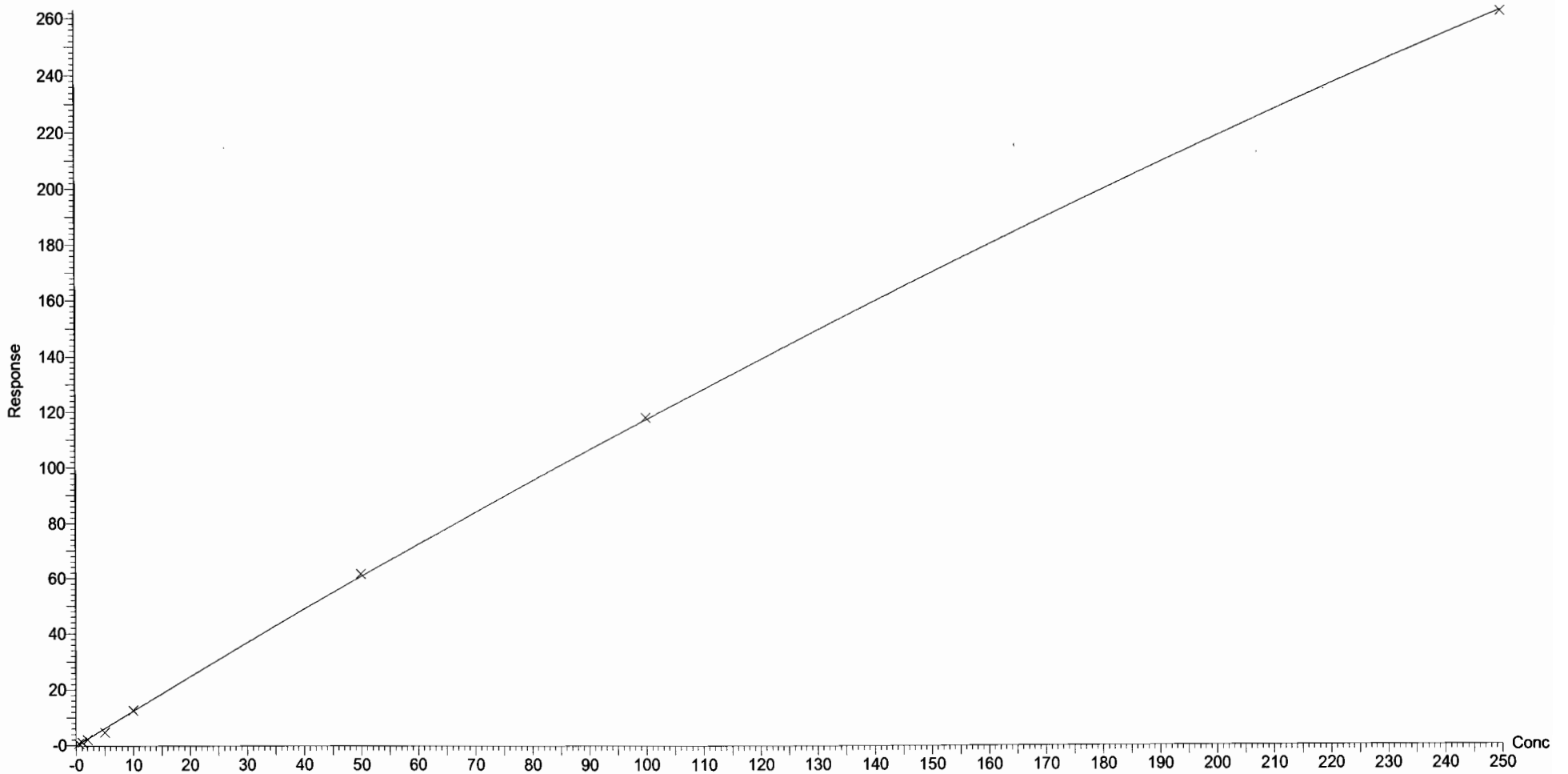
Compound name: PFUdA

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

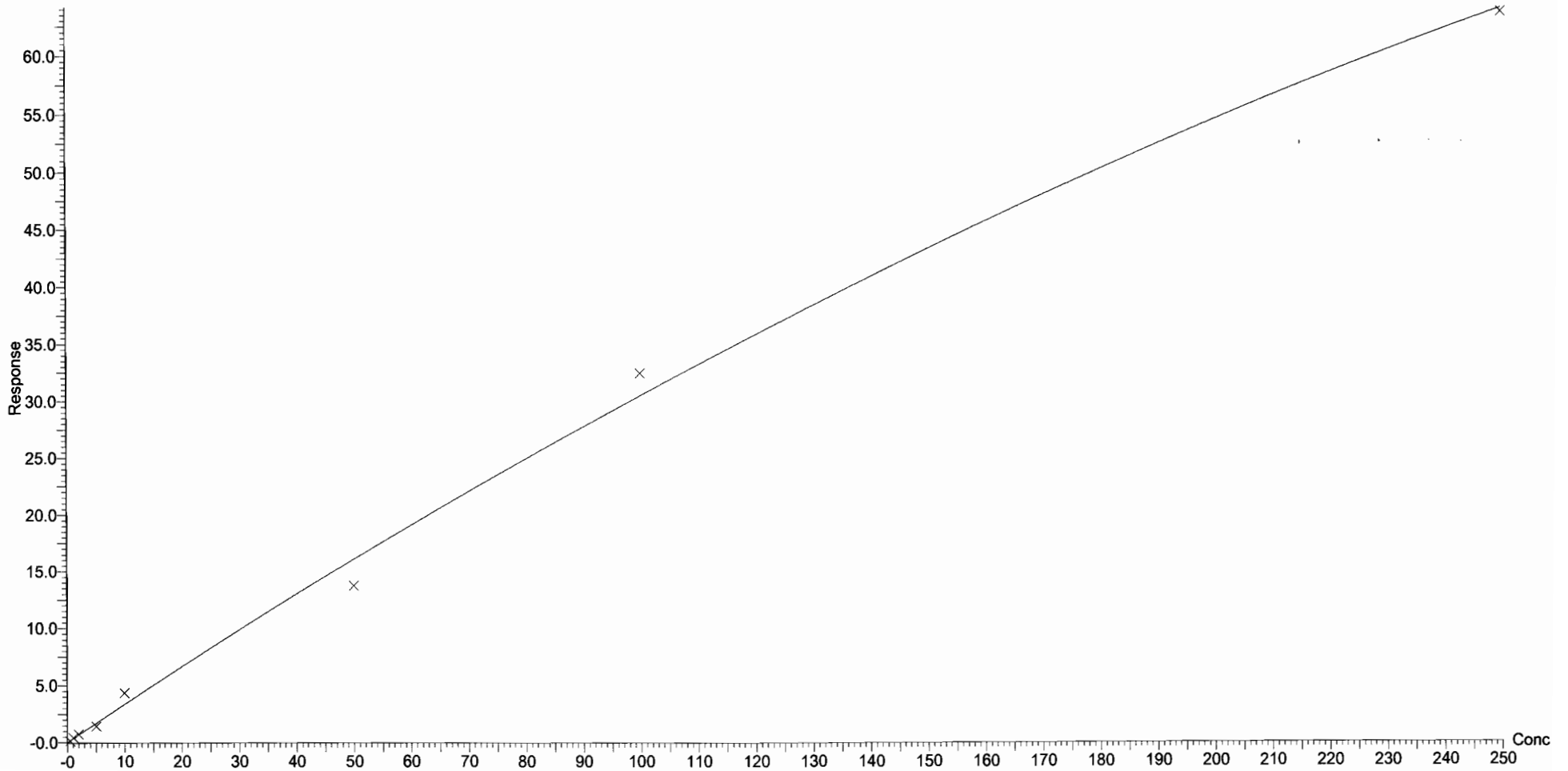


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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

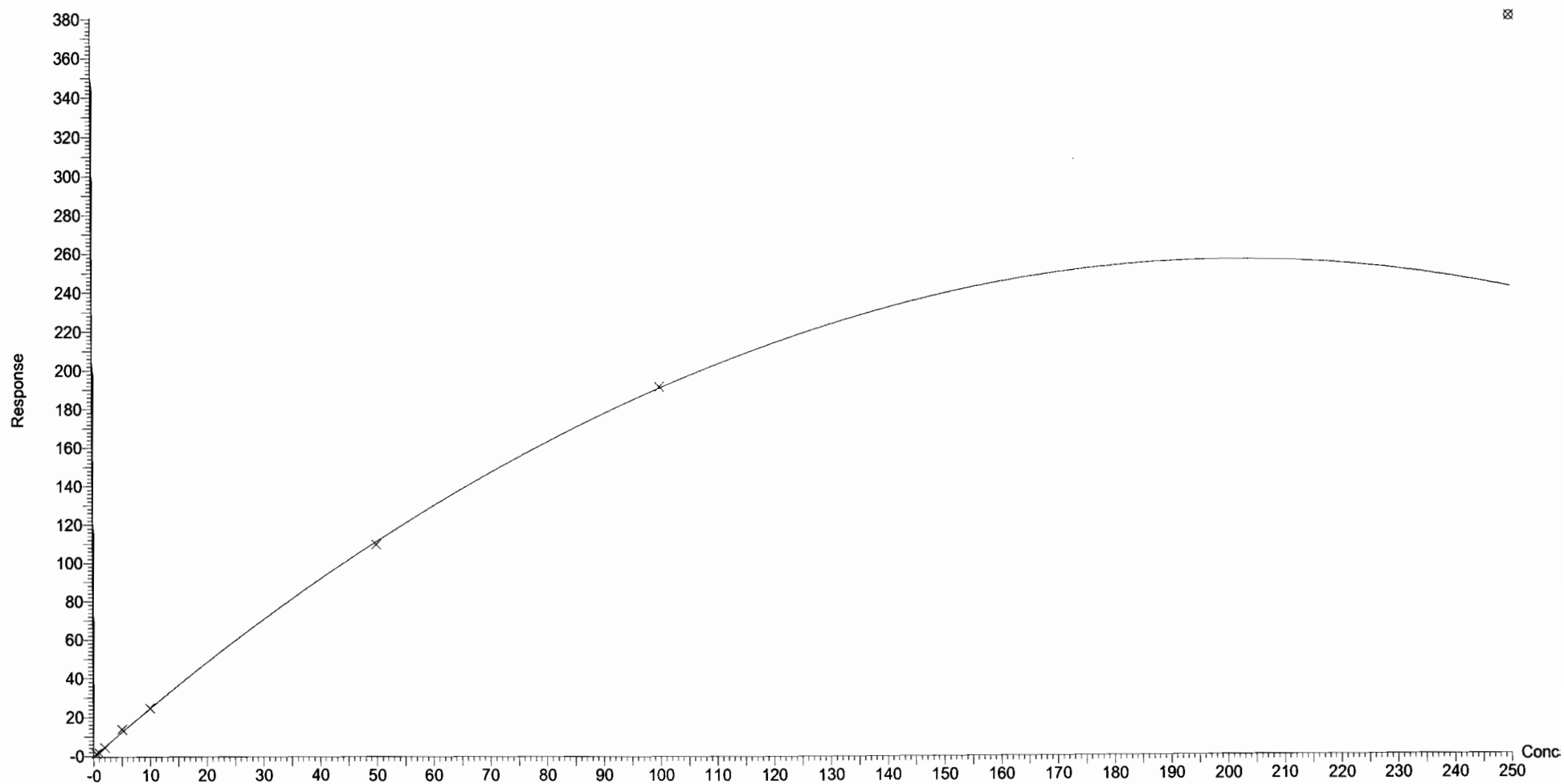


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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

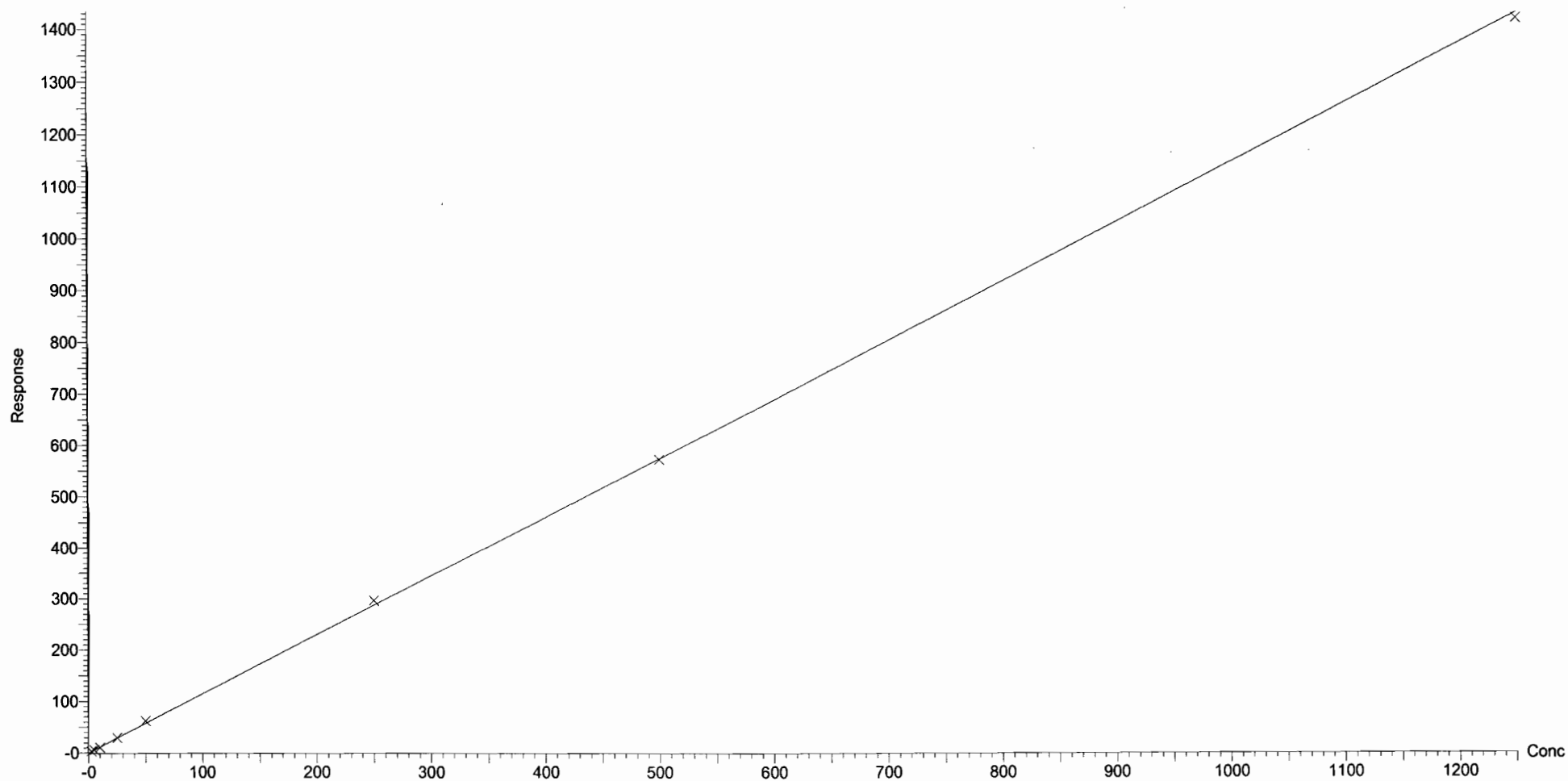
Compound name: N-MeFOSA

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

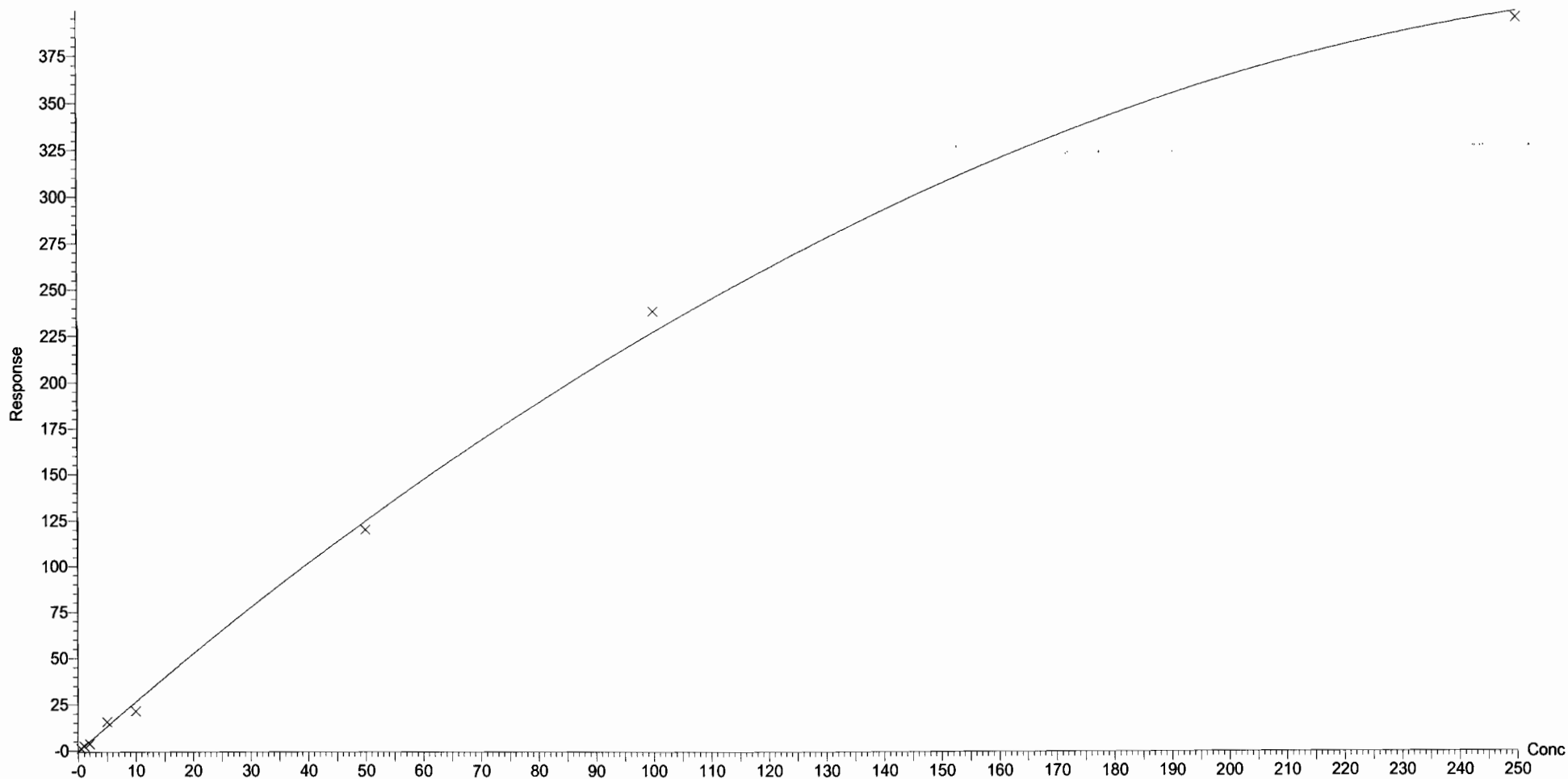
Compound name: PFTTrDA

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

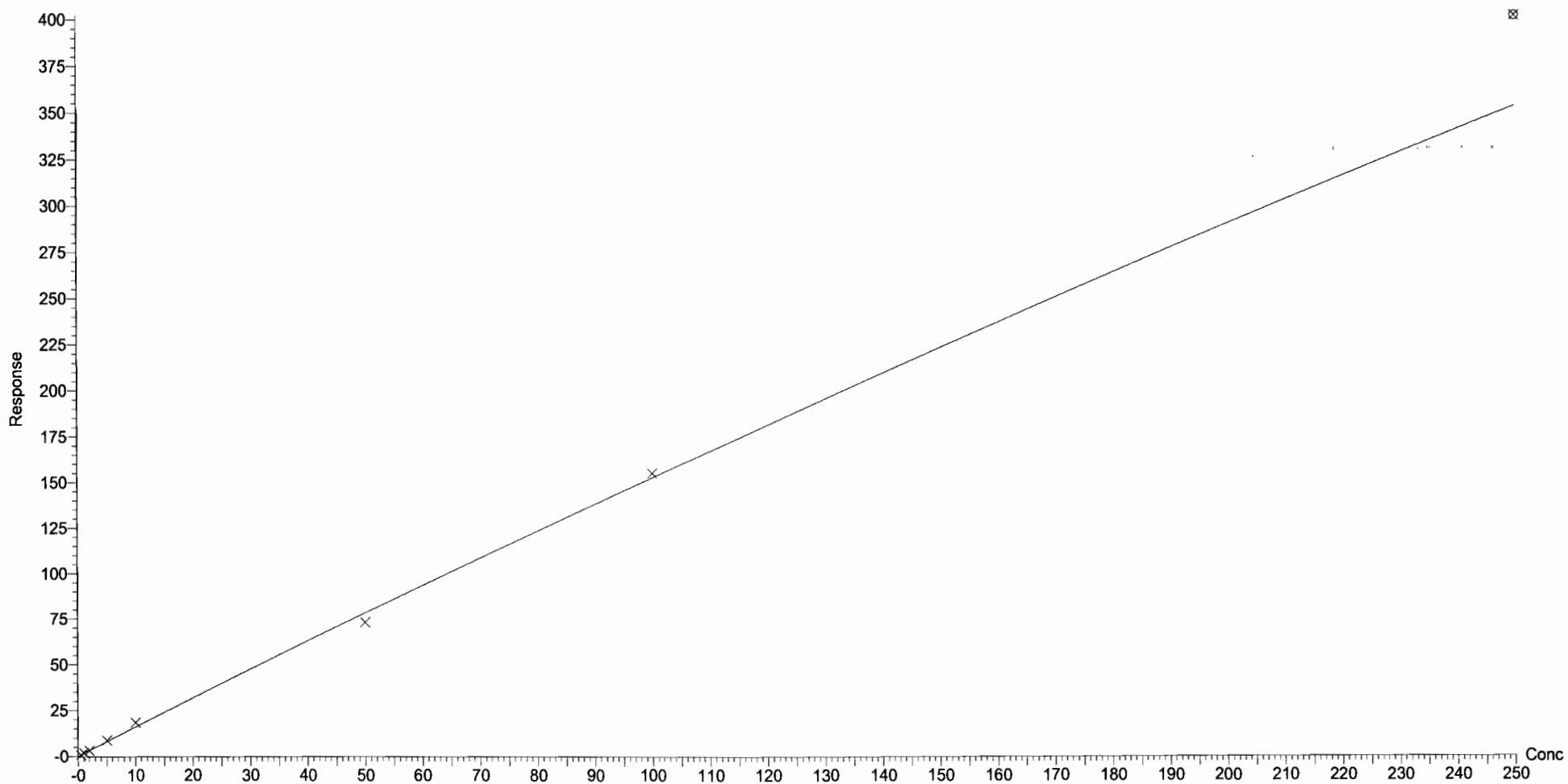




Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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

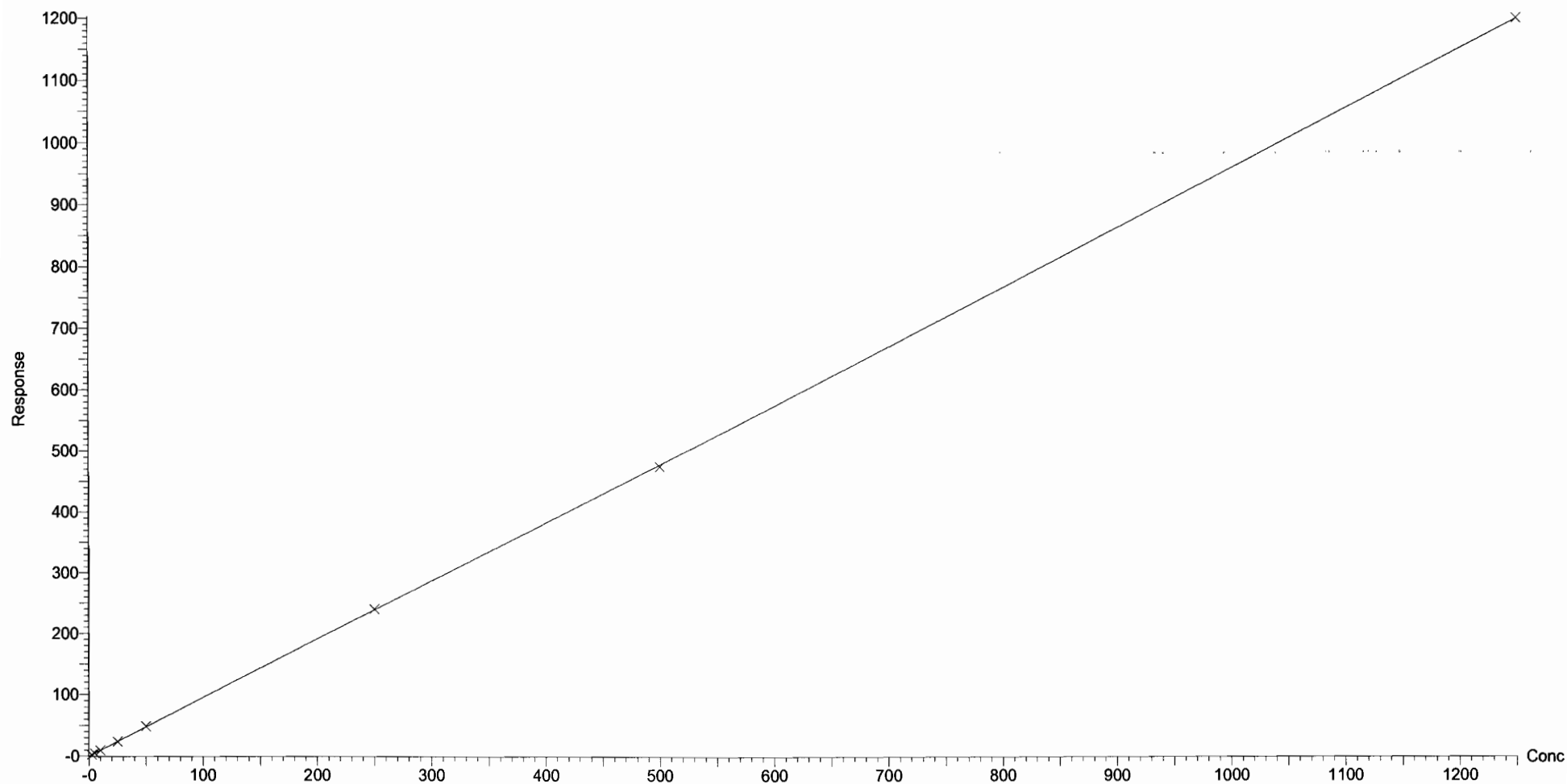
Compound name: N-EtFOSA

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

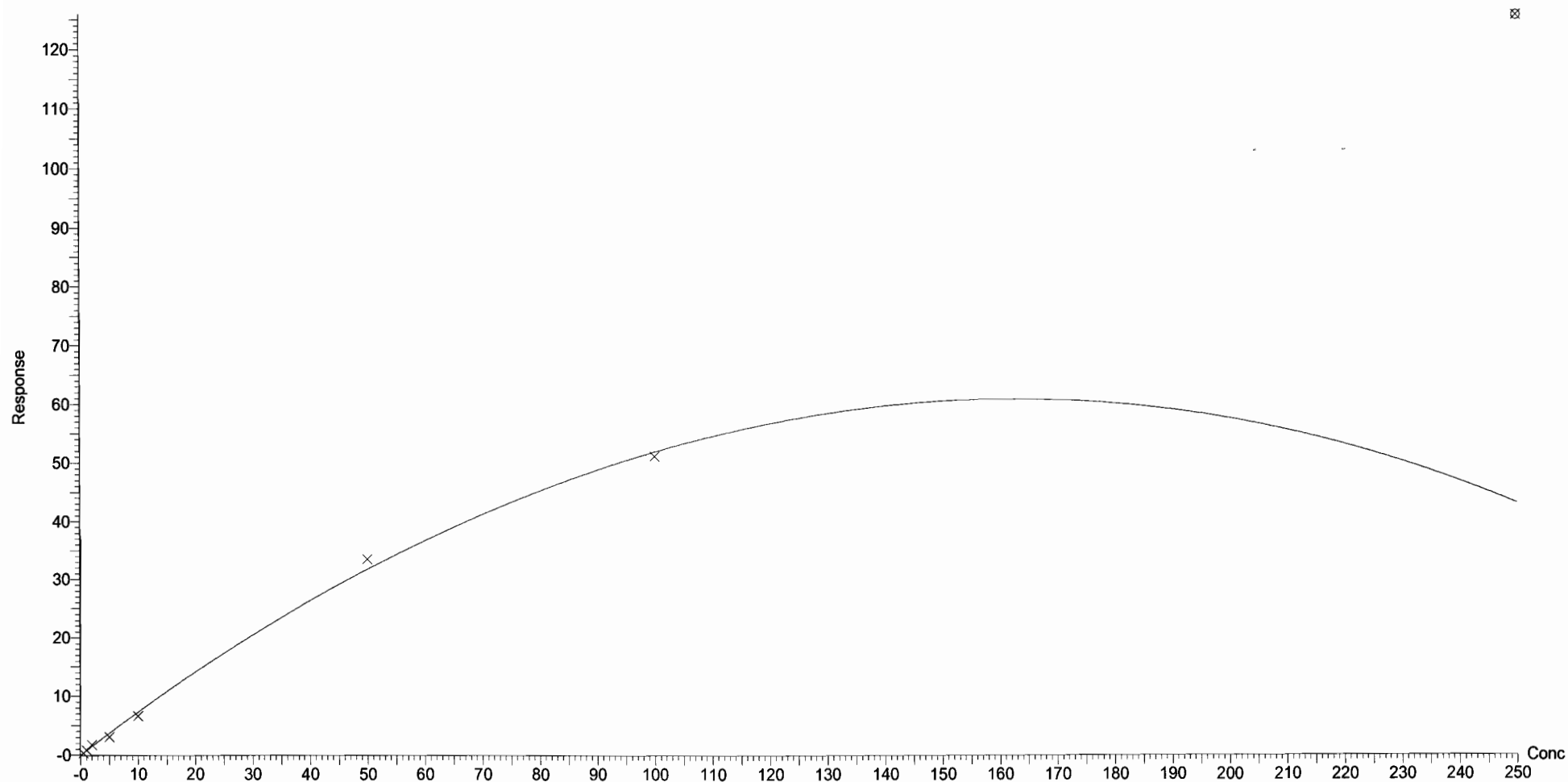
Compound name: PFHxDA

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

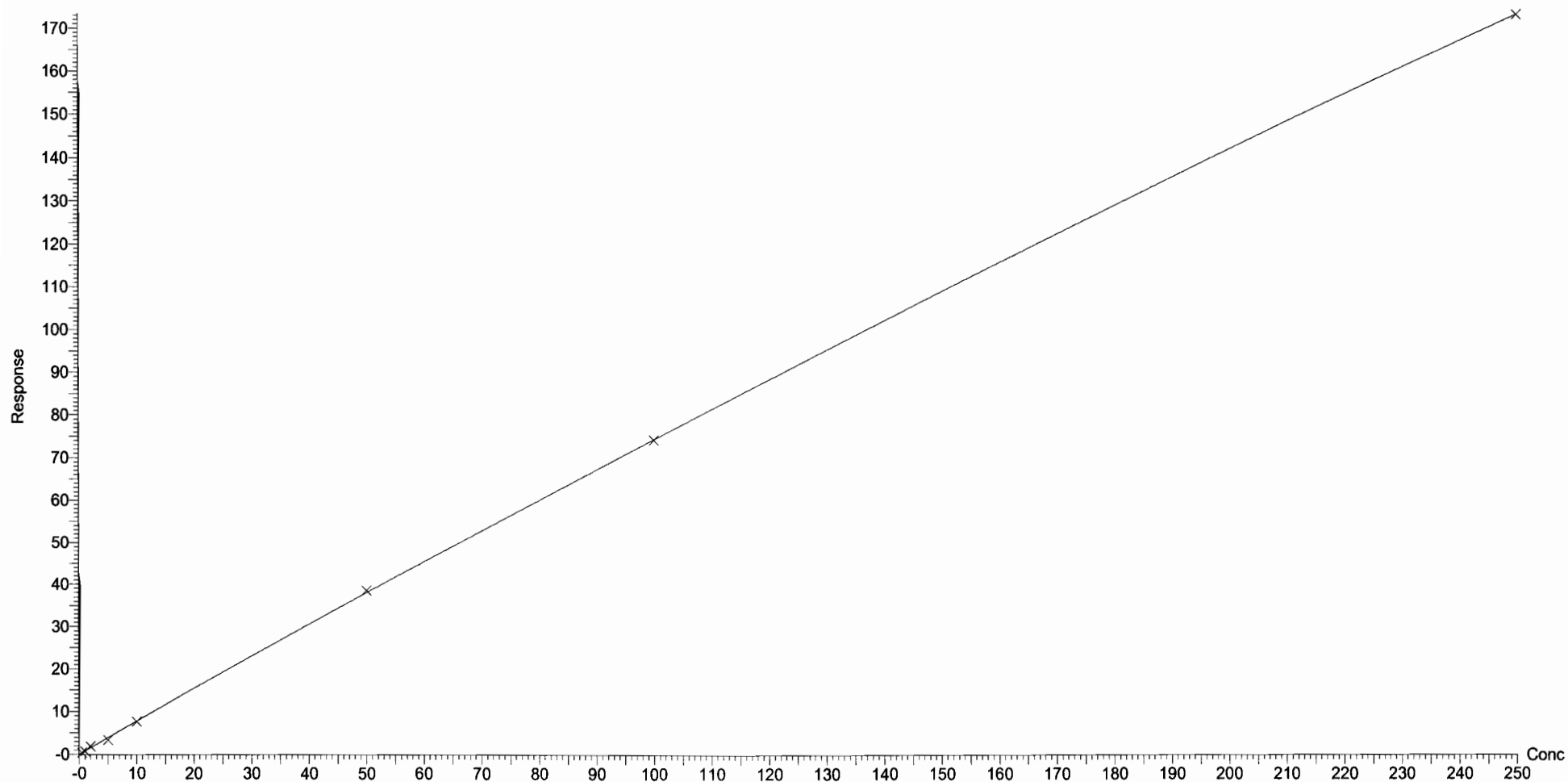
Compound name: PFODA

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

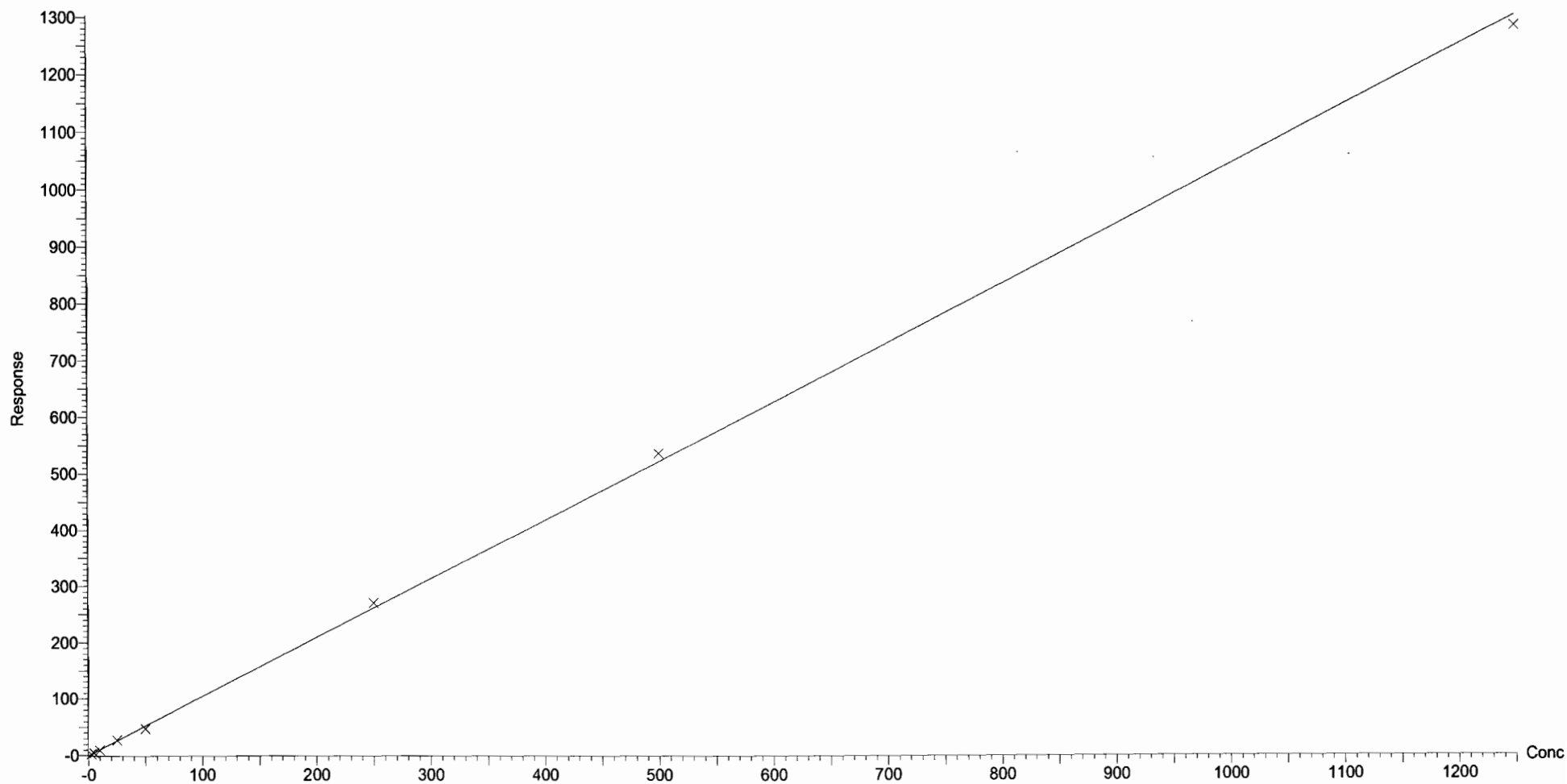
Compound name: N-MeFOSE

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

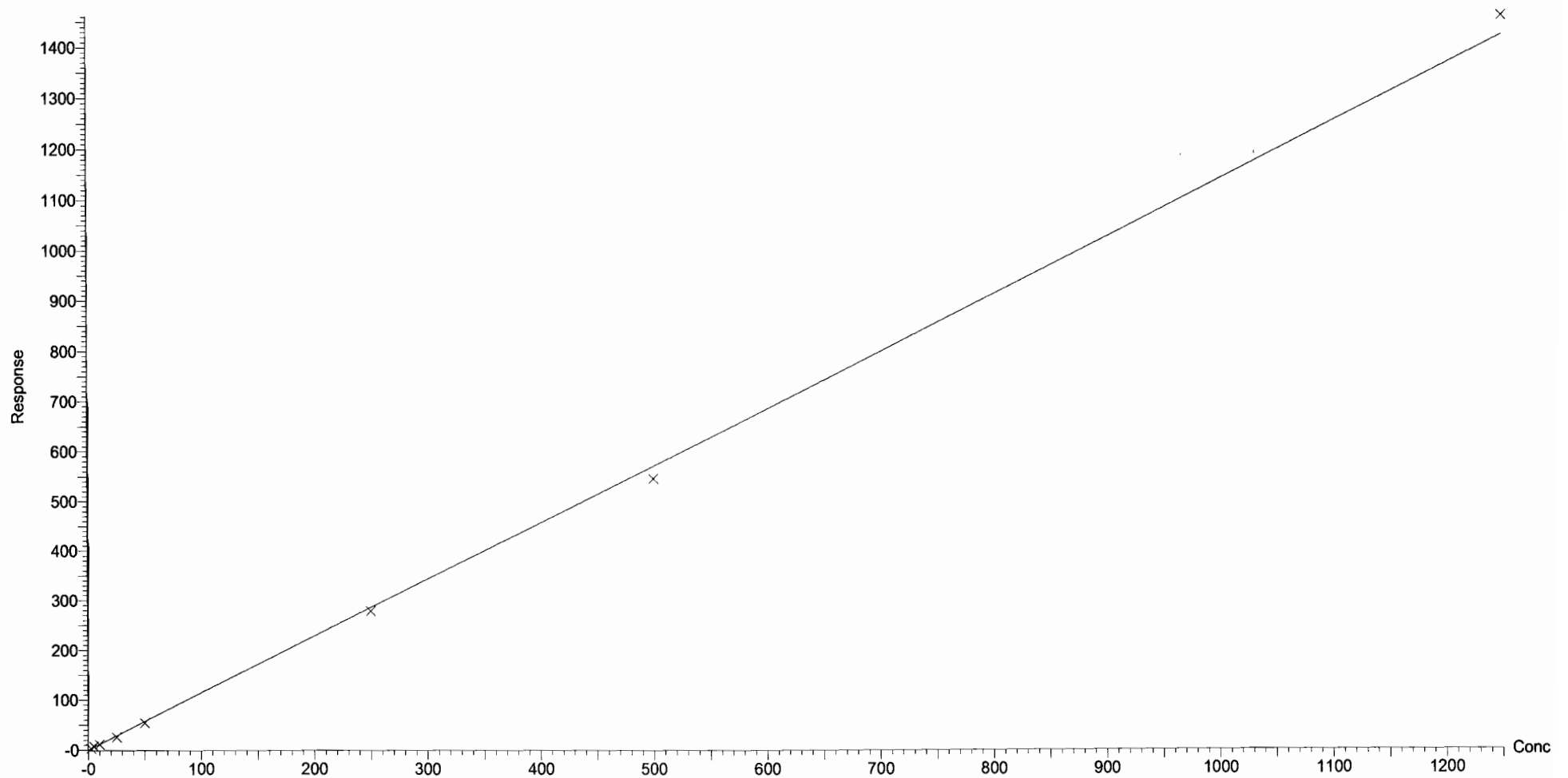


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:50:00 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:51:11 Pacific Standard Time

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

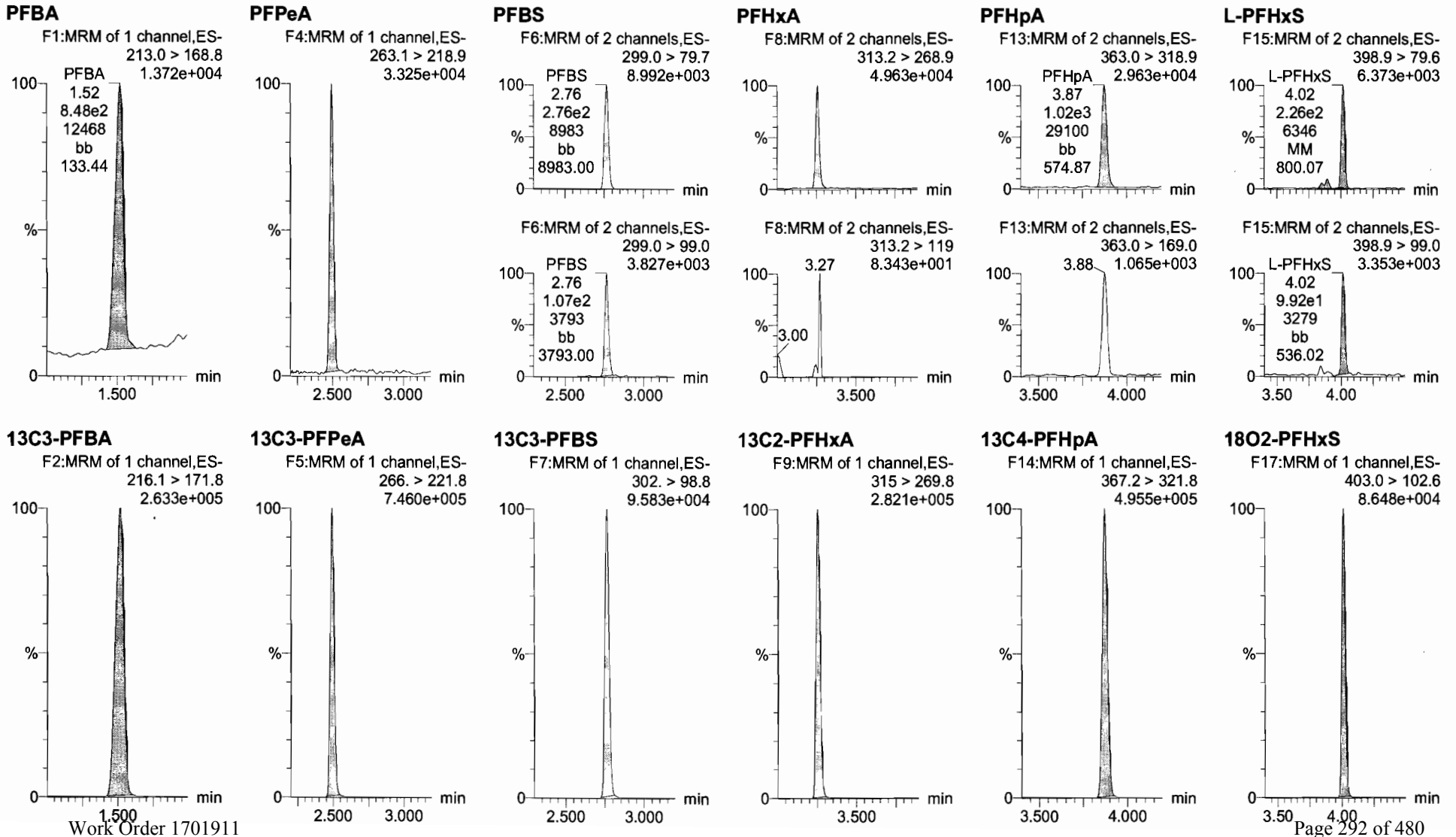


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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

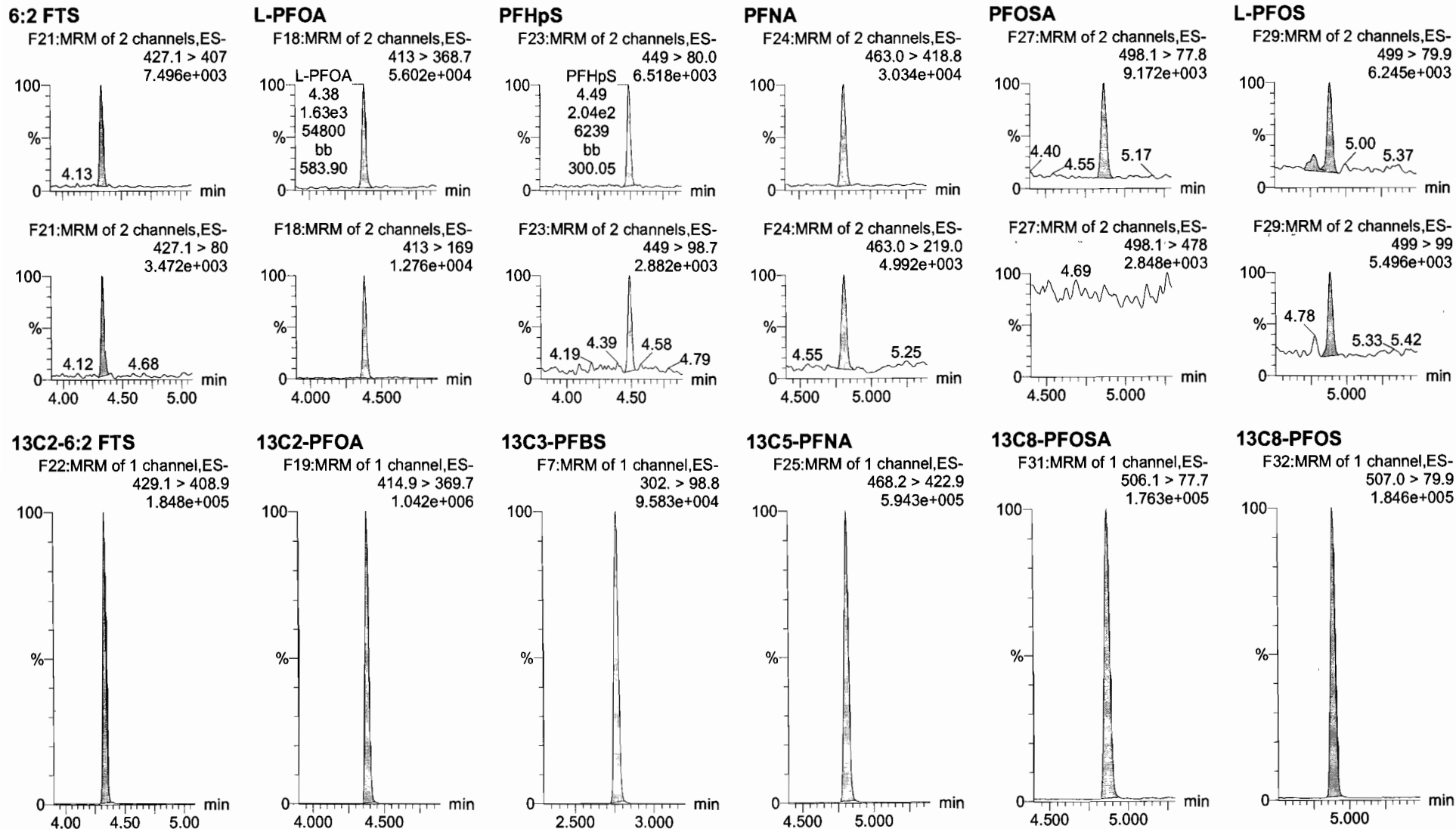


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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





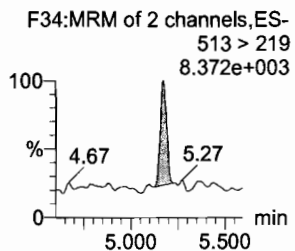
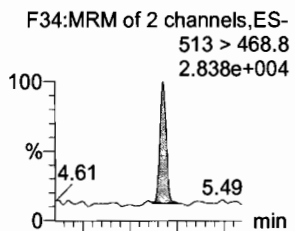
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

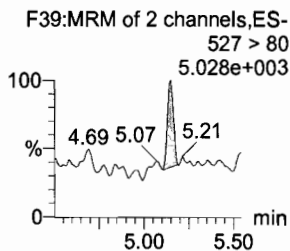
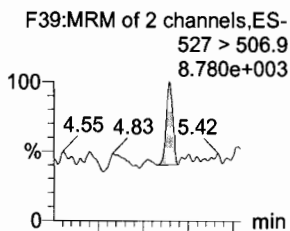
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

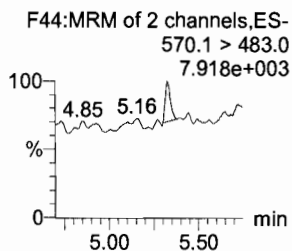
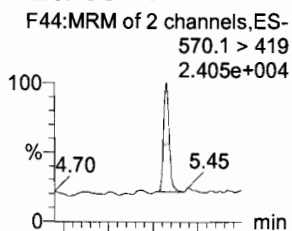
**PFDA**



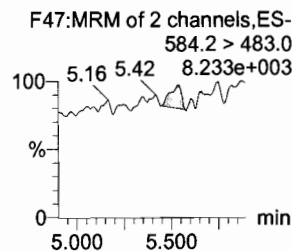
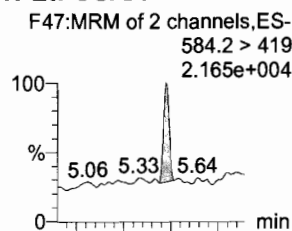
**8:2 FTS**



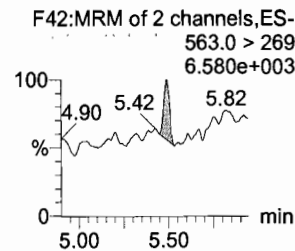
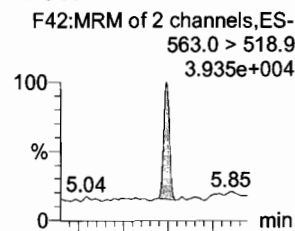
**N-MeFOSAA**



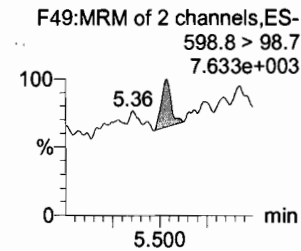
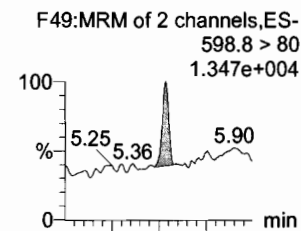
**N-EtFOSAA**



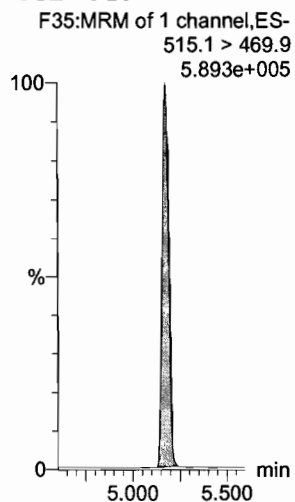
**PFUdA**



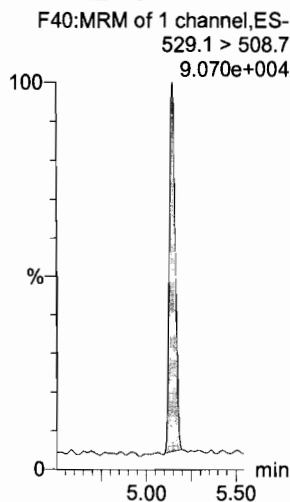
**PFDS**



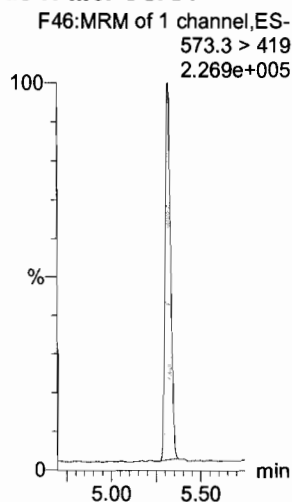
**13C2-PFDA**



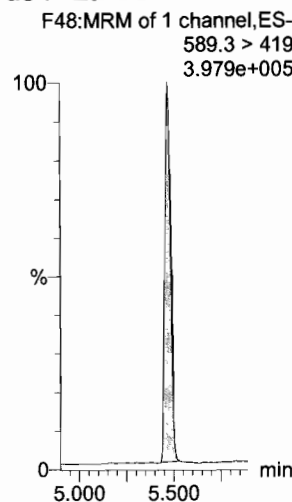
**13C2-8:2 FTS**



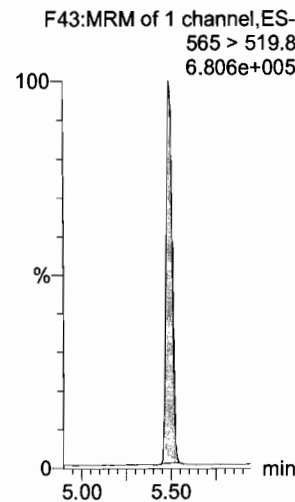
**d3-N-MeFOSAA**



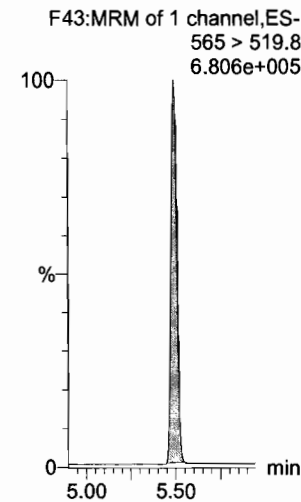
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**

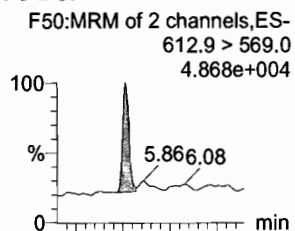


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

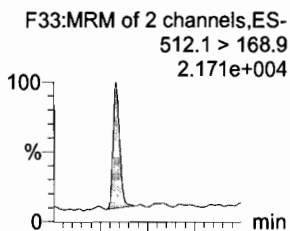
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

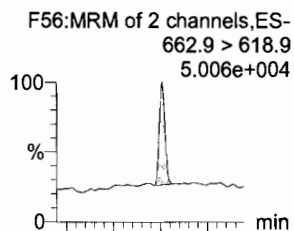
**PFD<sub>o</sub>A**



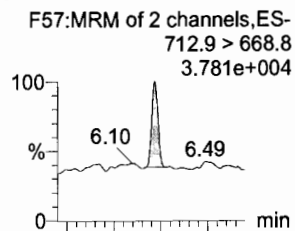
**N-MeFOSA**



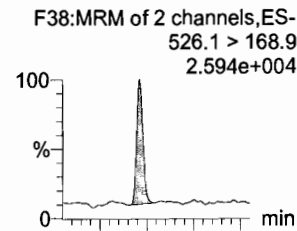
**PFT<sub>r</sub>DA**



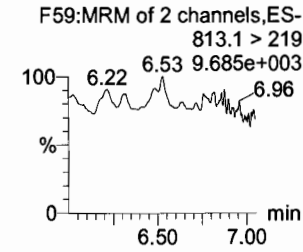
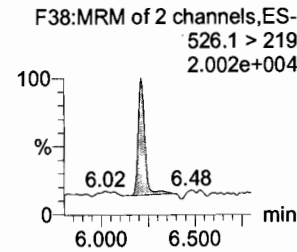
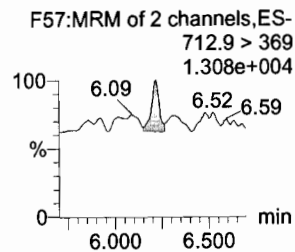
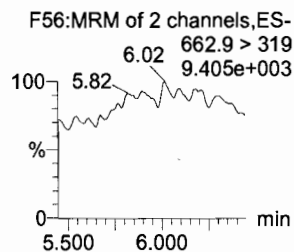
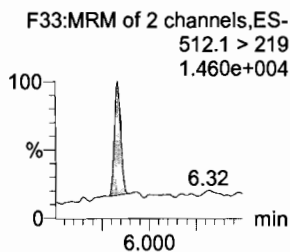
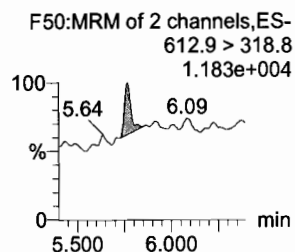
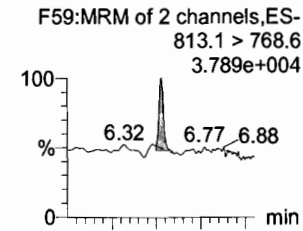
**PFT<sub>e</sub>DA**



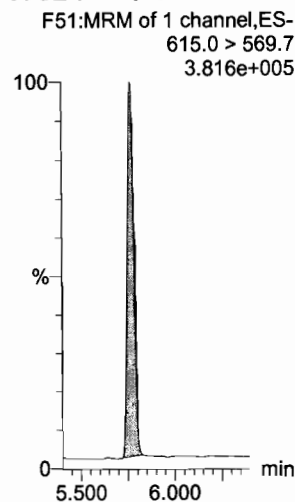
**N-EtFOSA**



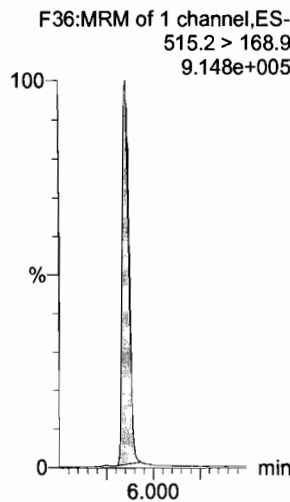
**PFH<sub>x</sub>DA**



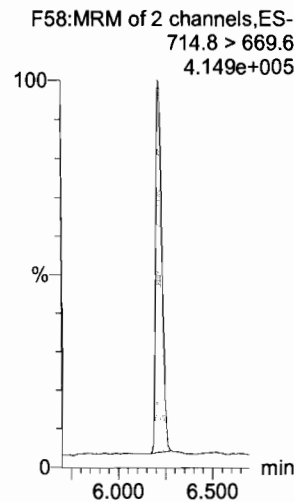
**13C2-PFD<sub>o</sub>A**



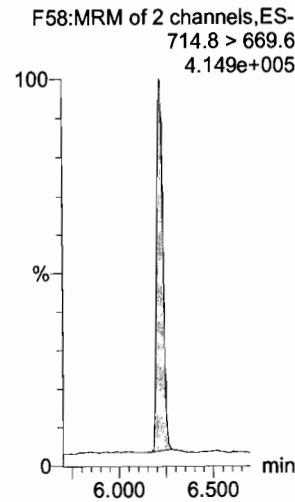
**d3-N-MeFOSA**



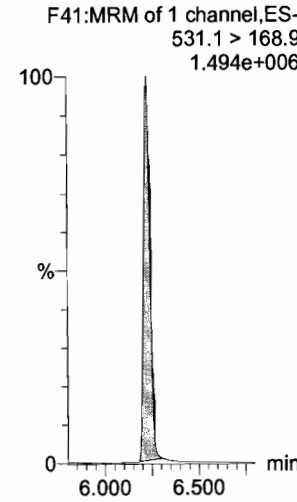
**13C2-PFT<sub>e</sub>DA**



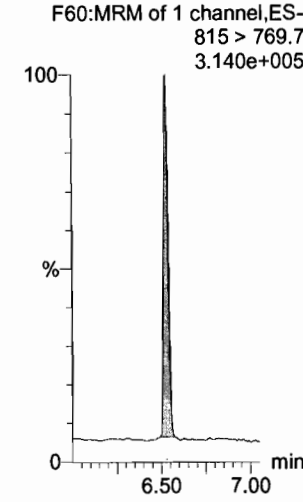
**13C2-PFT<sub>r</sub>DA**



**d5-N-ETFOSA**



**13C2-PFH<sub>x</sub>DA**



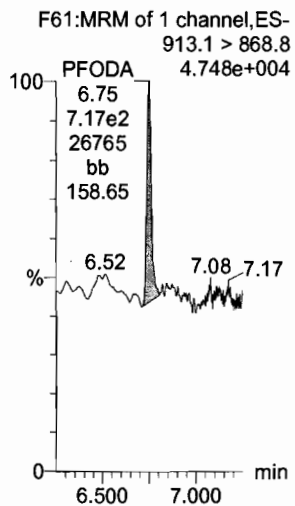
Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

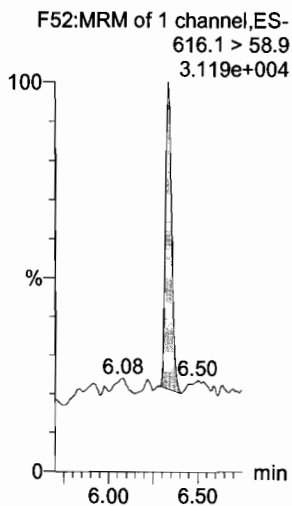
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_3, Date: 23-Dec-2017, Time: 13:19:26, ID: ST171223M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

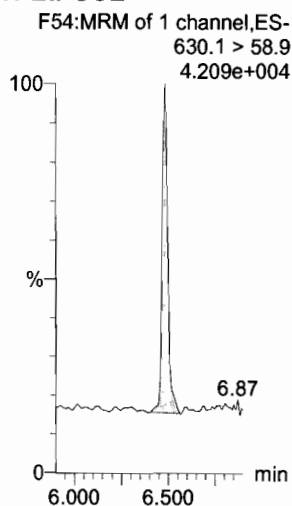
**PFODA**



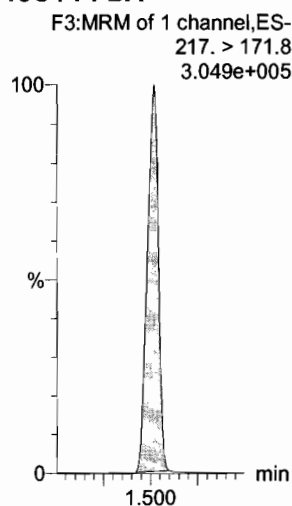
**N-MeFOSE**



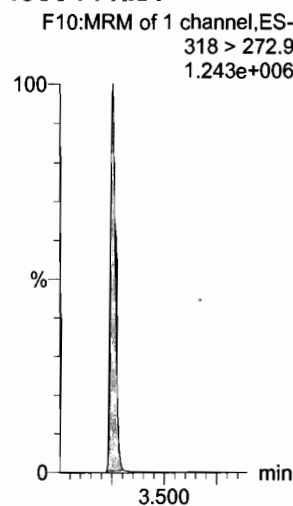
**N-EtFOSE**



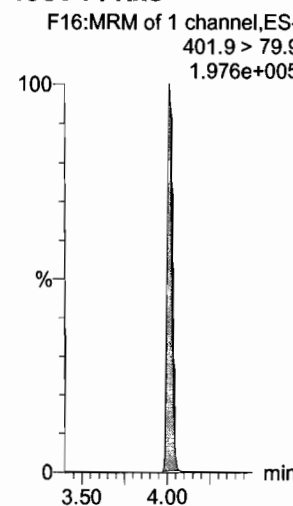
**13C4-PFBA**



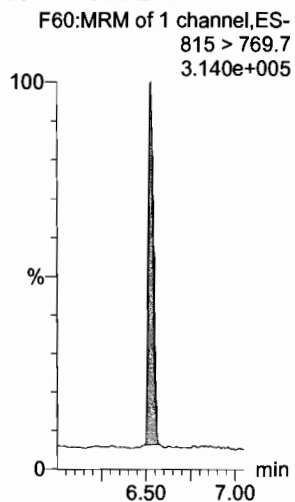
**13C5-PFHxA**



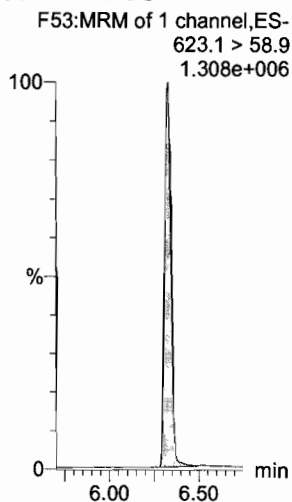
**13C3-PFHxS**



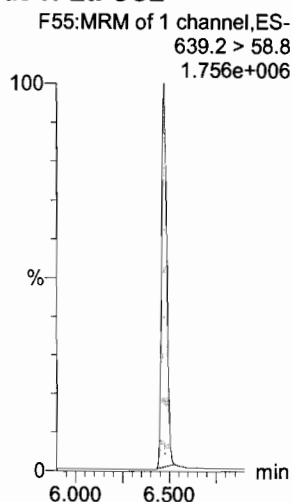
**13C2-PFHxDA**



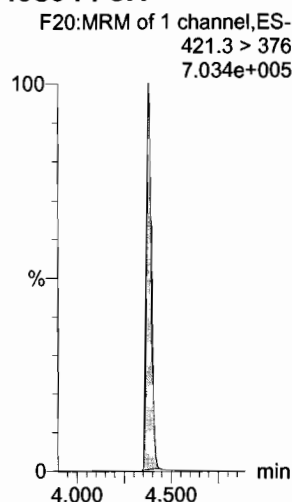
**d7-N-MeFOSE**



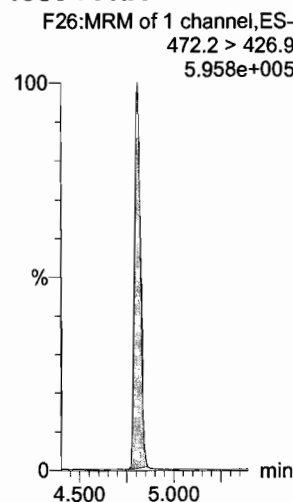
**d9-N-EtFOSE**



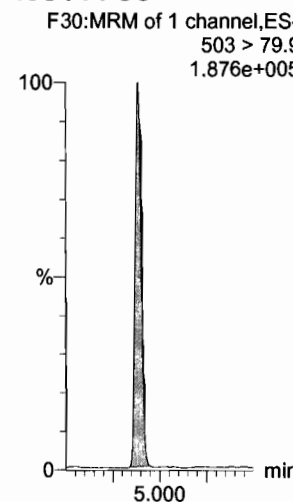
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



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

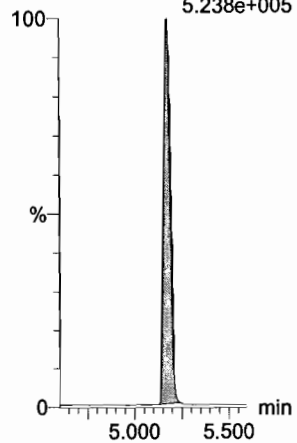
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

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

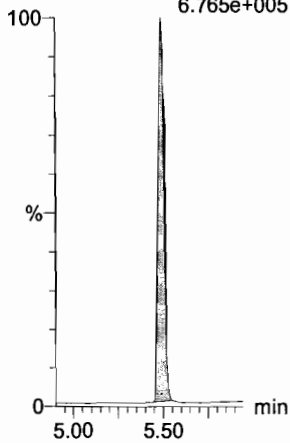
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
5.238e+005



13C7-PFUdA

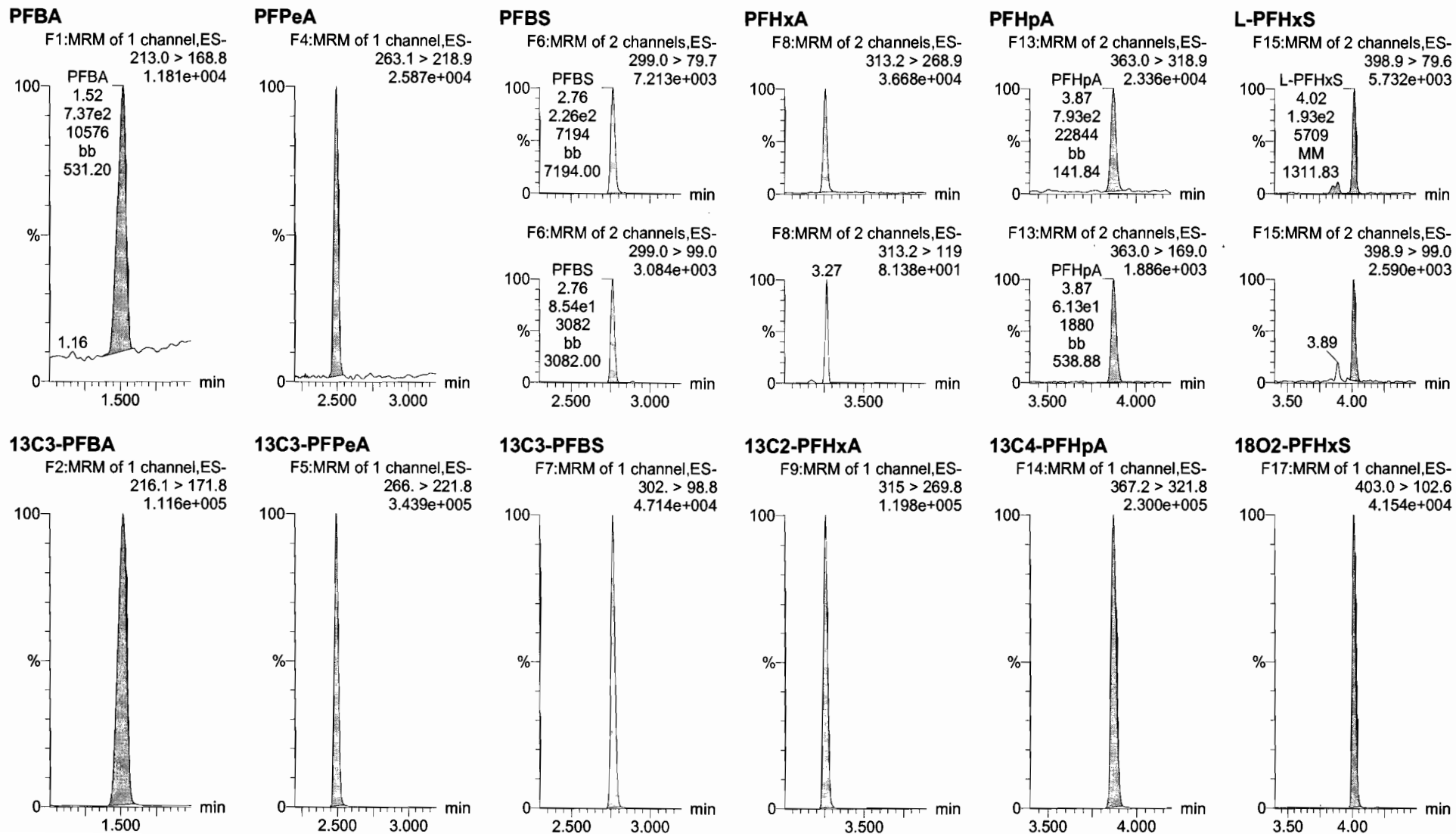
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
6.765e+005



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



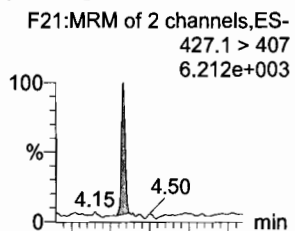
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

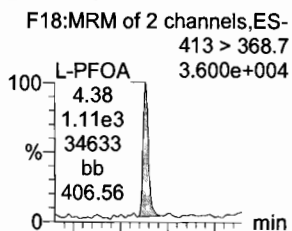
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Name: 171223M1\_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

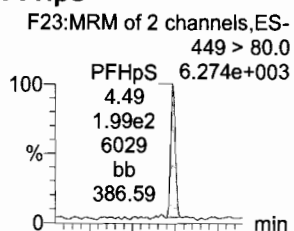
6:2 FTS



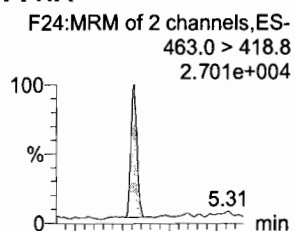
L-PFOA



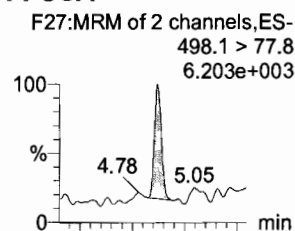
PFHpS



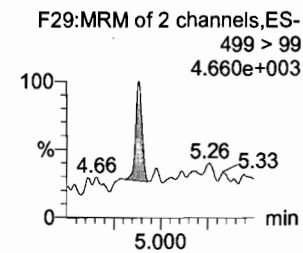
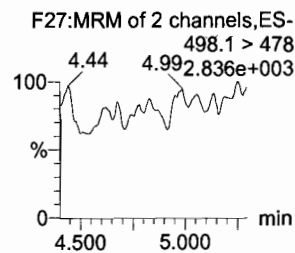
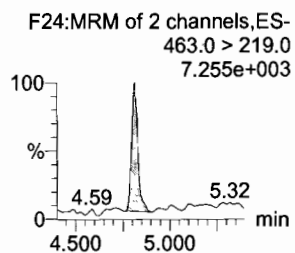
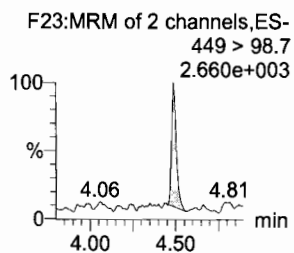
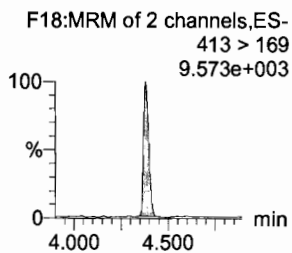
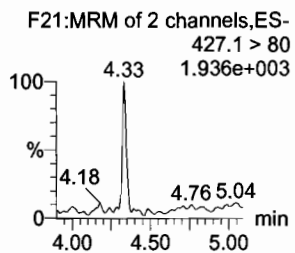
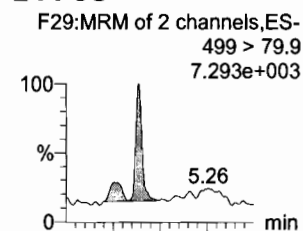
PFNA



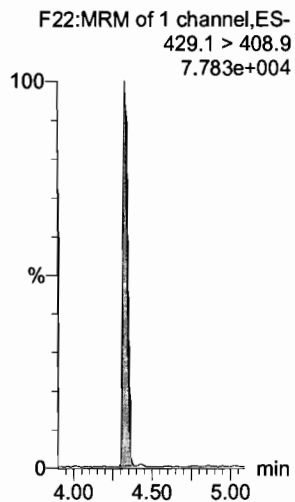
PFOSA



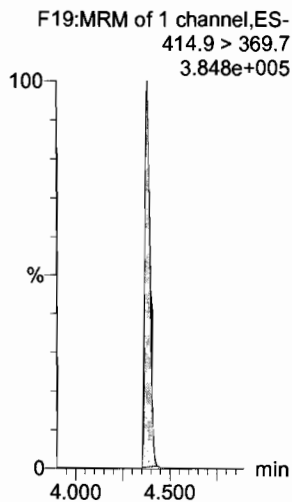
L-PFOS



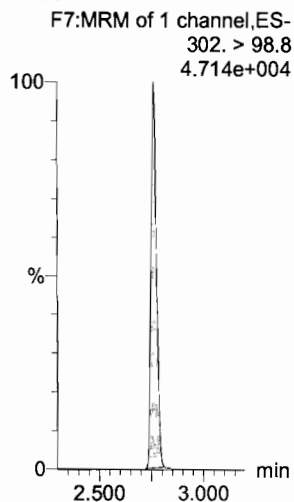
13C2-6:2 FTS



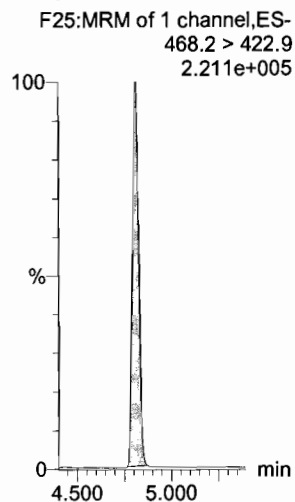
13C2-PFOA



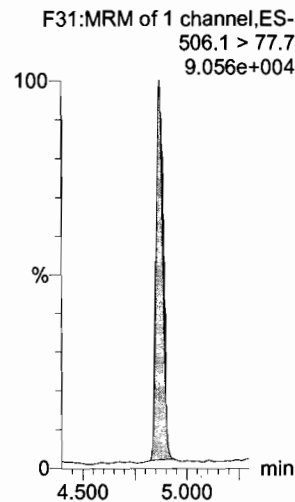
13C3-PFBS



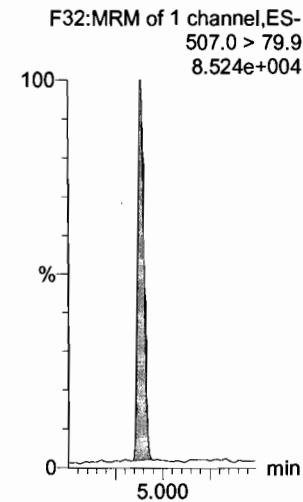
13C5-PFNA



13C8-PFOSA



13C8-PFOS



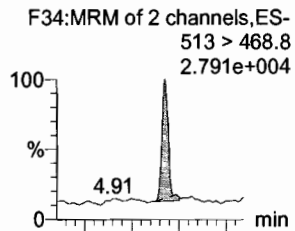
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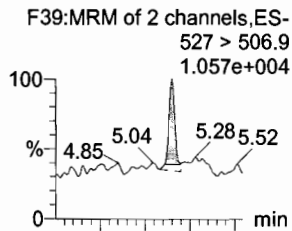
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Name: 171223M1\_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

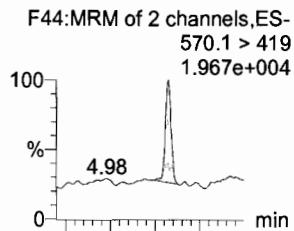
**PFDA**



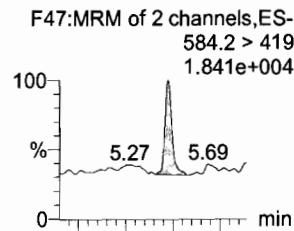
**8:2 FTS**



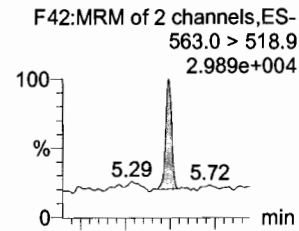
**N-MeFOSAA**



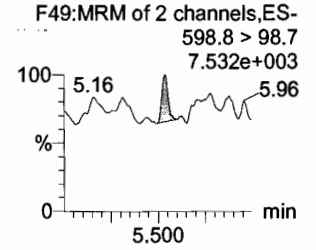
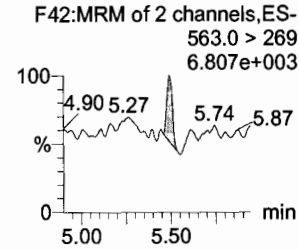
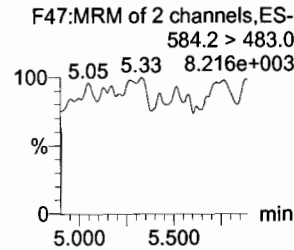
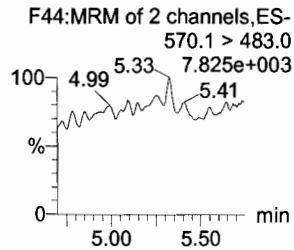
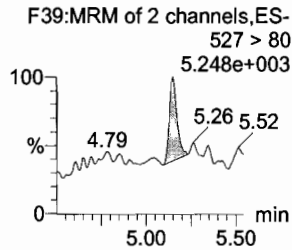
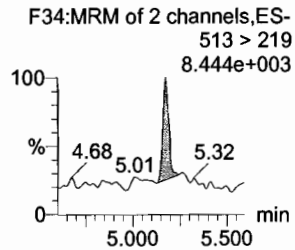
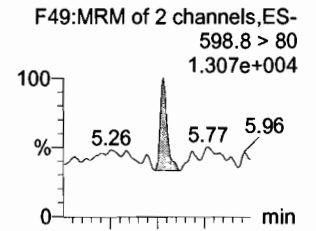
**N-EtFOSAA**



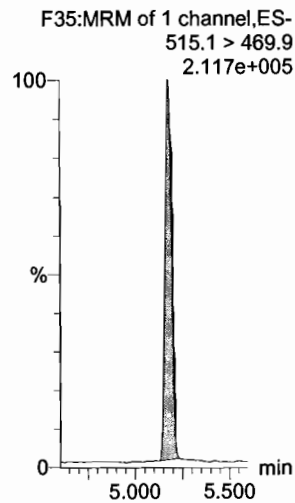
**PFUdA**



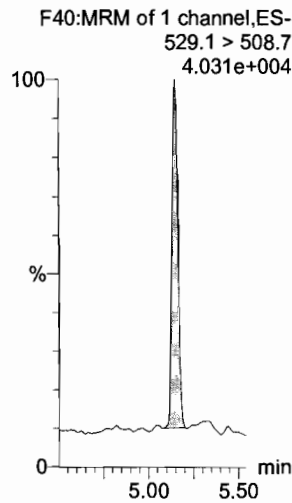
**PFDS**



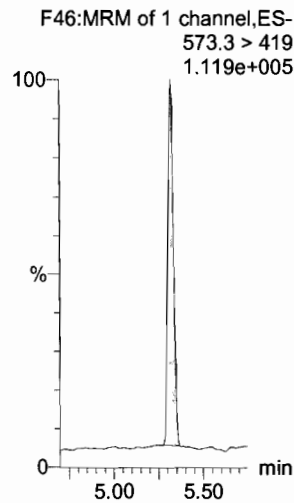
**13C2-PFDA**



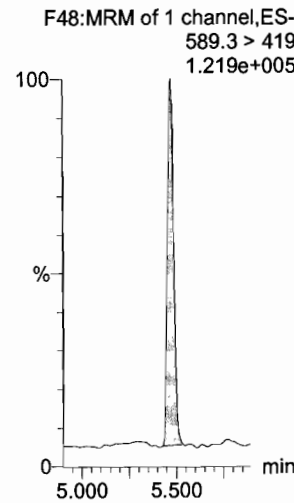
**13C2-8:2 FTS**



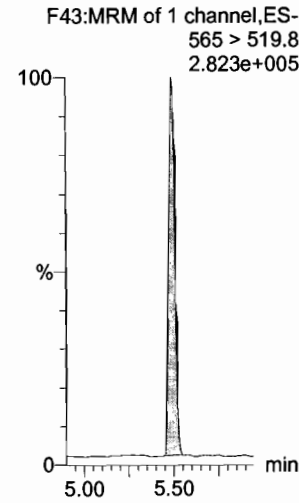
**d3-N-MeFOSAA**



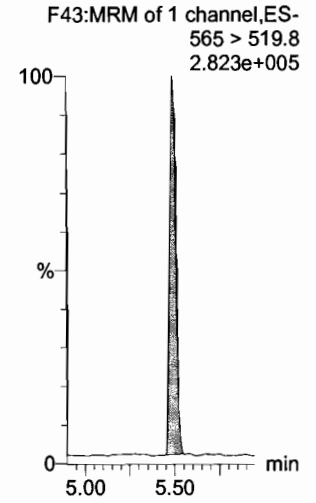
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



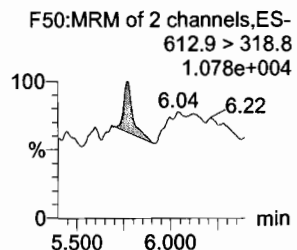
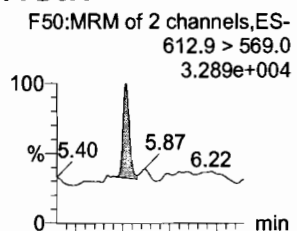
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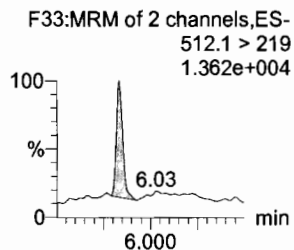
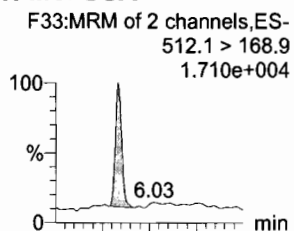
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Name: 171223M1\_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

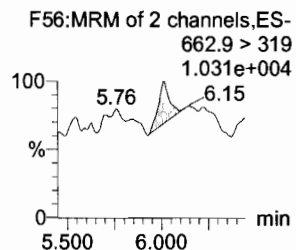
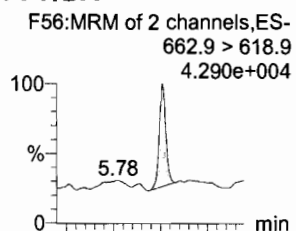
**PFDoA**



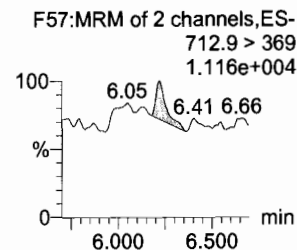
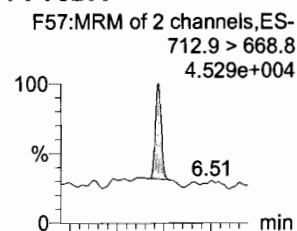
**N-MeFOSA**



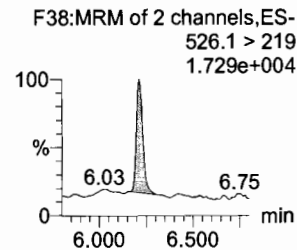
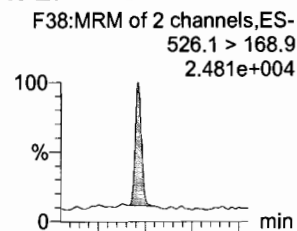
**PFTrDA**



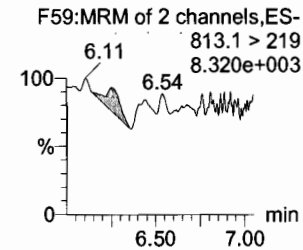
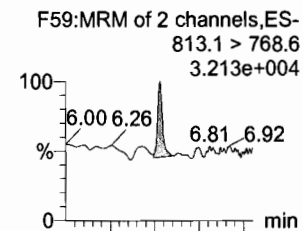
**PFTeDA**



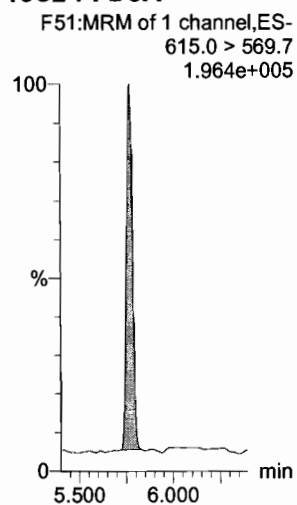
**N-EtFOSA**



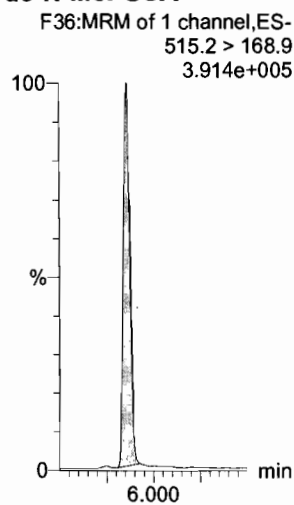
**PFHxDA**



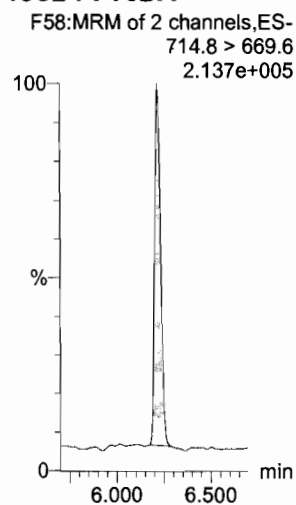
**13C2-PFDoA**



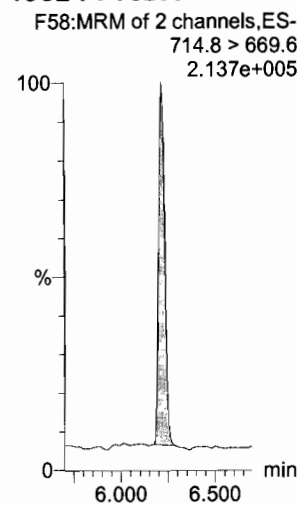
**d3-N-MeFOSA**



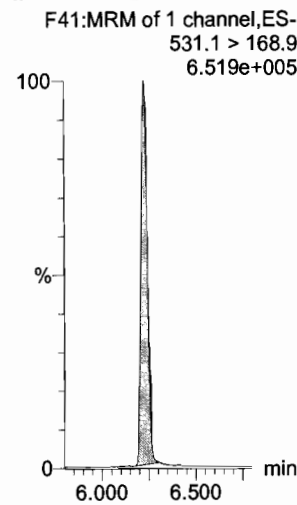
**13C2-PFTeDA**



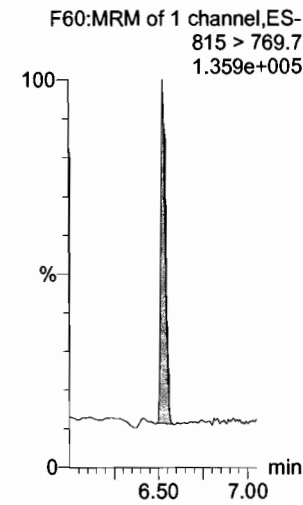
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**





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

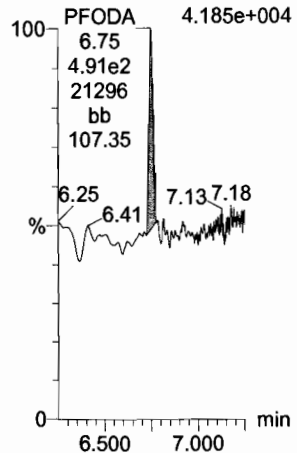
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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

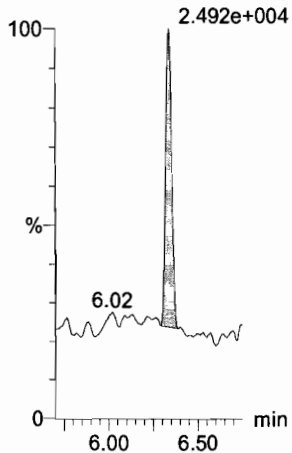
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
4.185e+004



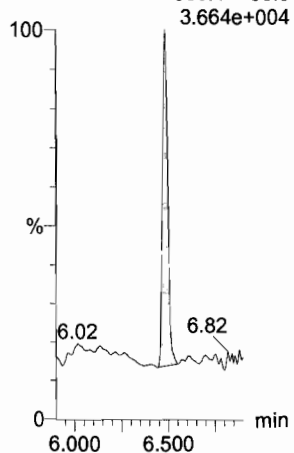
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.492e+004



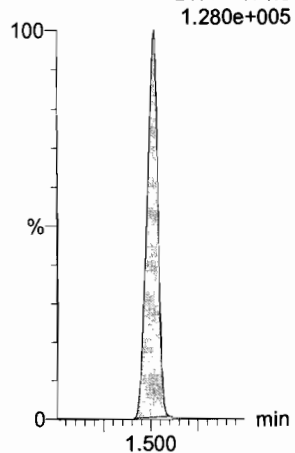
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.664e+004



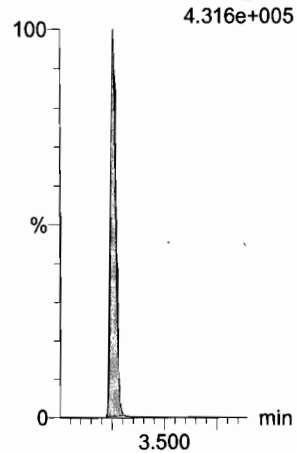
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.280e+005



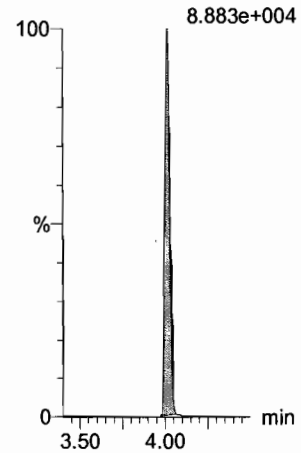
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.316e+005



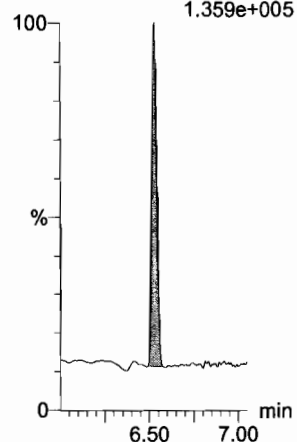
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
8.883e+004



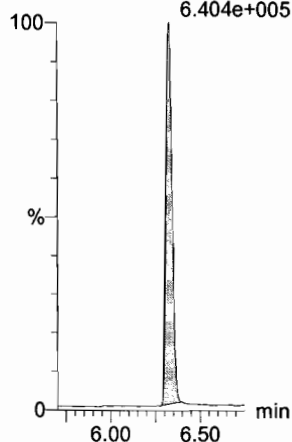
**13C2-PFHxD**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.359e+005



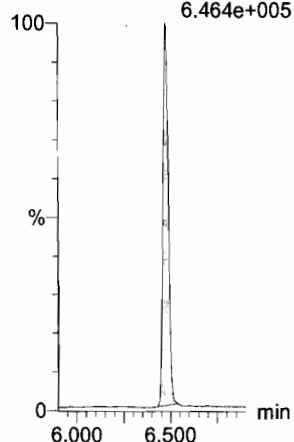
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
6.404e+005



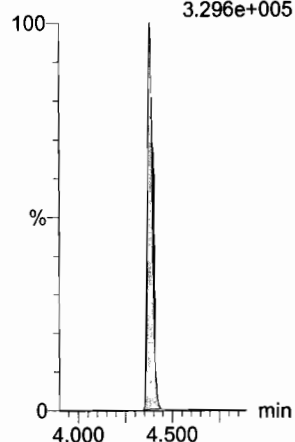
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
6.464e+005



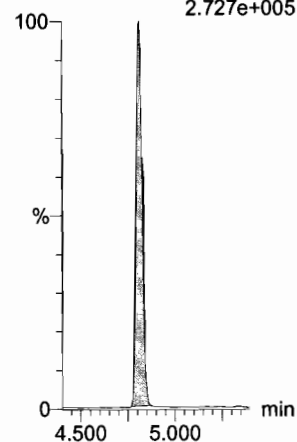
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
3.296e+005



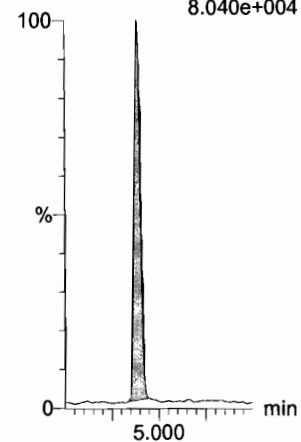
**13C9-PFNA**

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

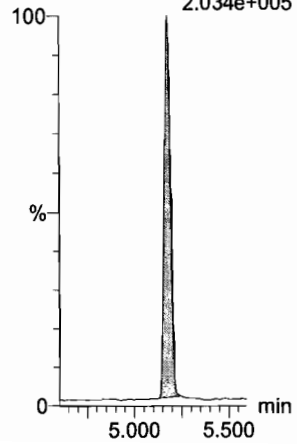
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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_4, Date: 23-Dec-2017, Time: 13:30:37, ID: ST171223M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

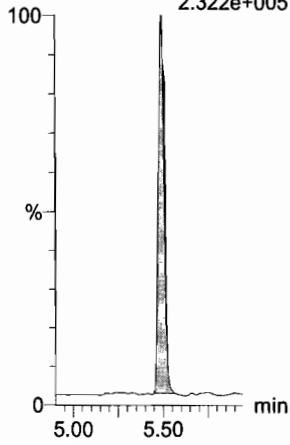
13C6-PFDA

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

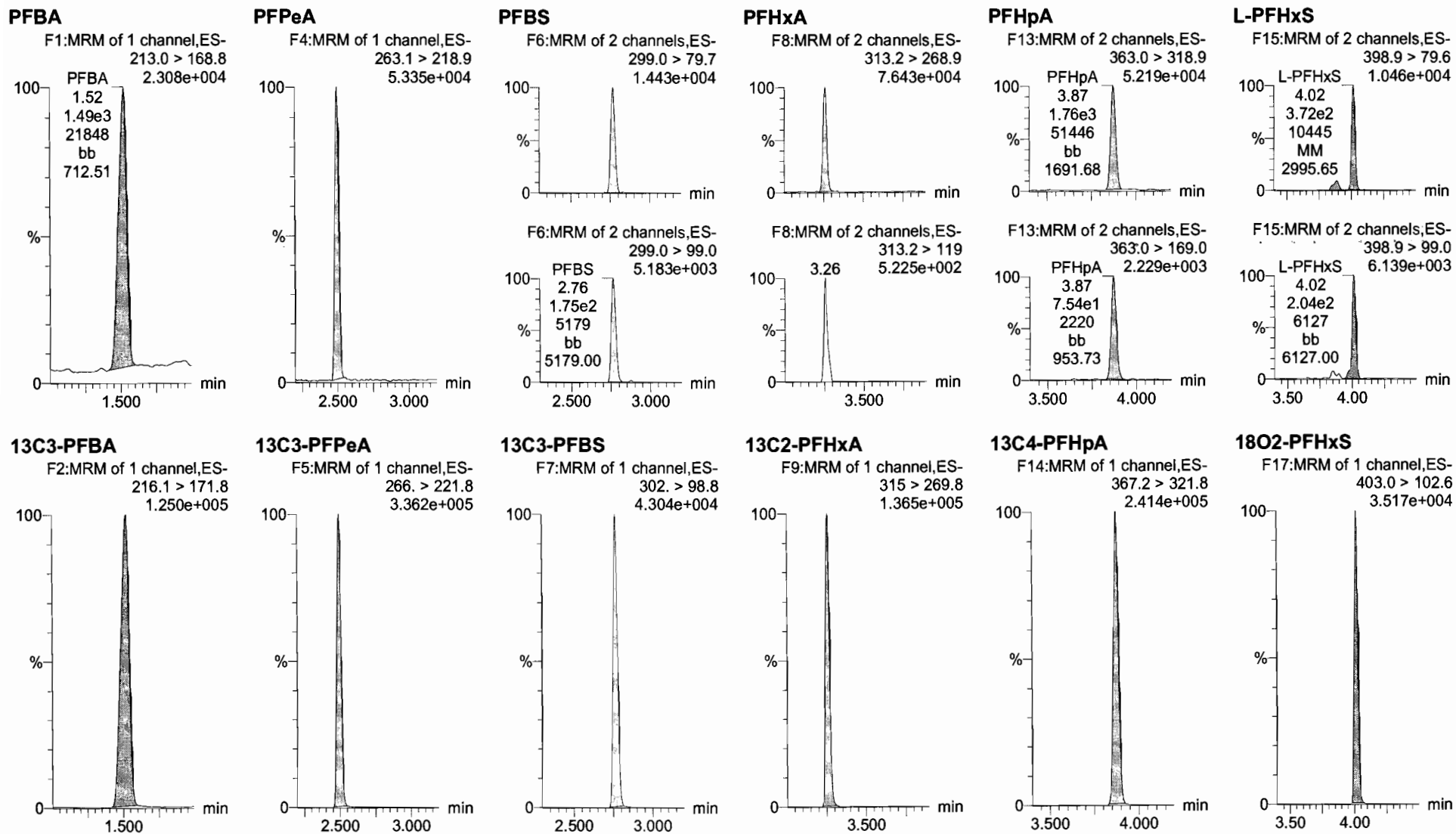


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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

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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



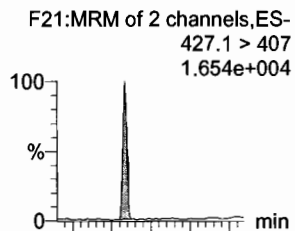
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

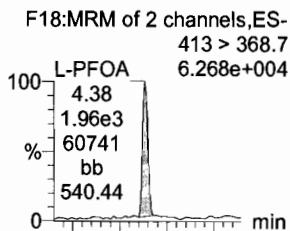
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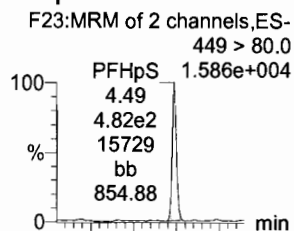
**6:2 FTS**



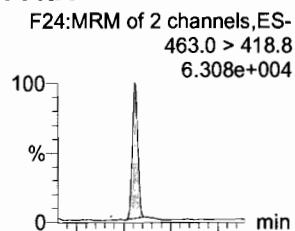
**L-PFOA**



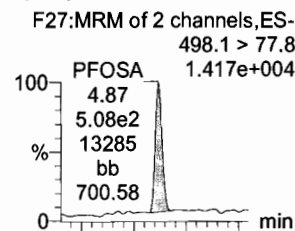
**PFHpS**



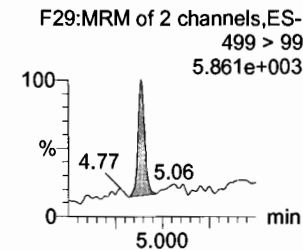
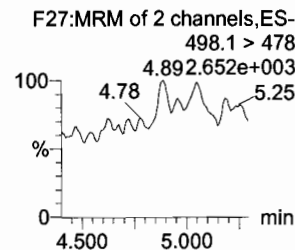
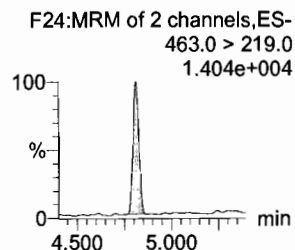
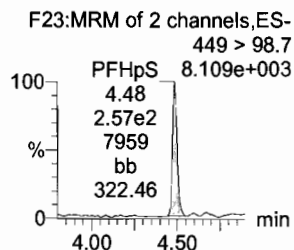
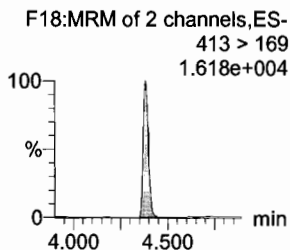
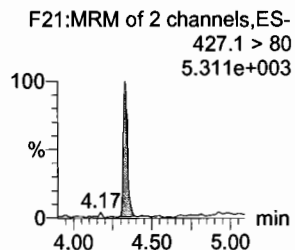
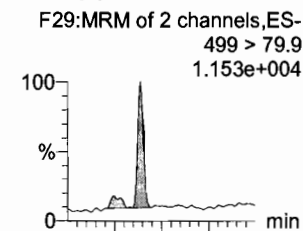
**PFNA**



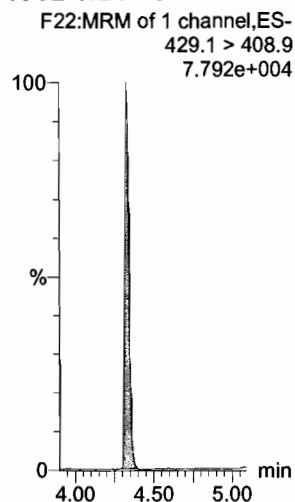
**PFOSA**



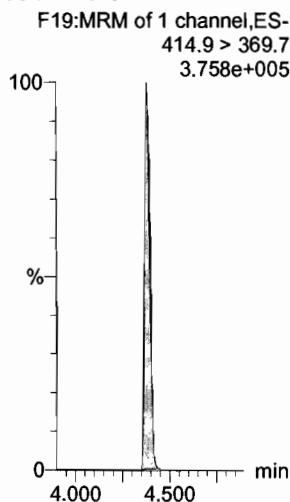
**L-PFOS**



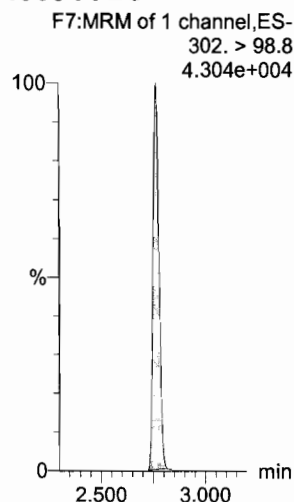
**13C2-6:2 FTS**



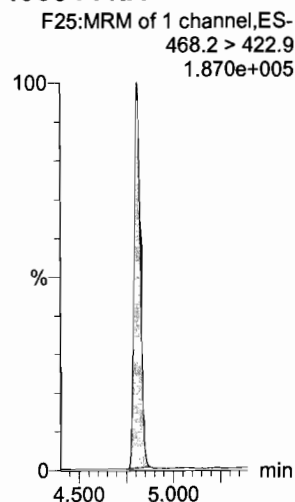
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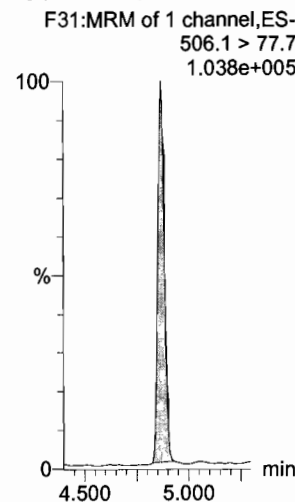
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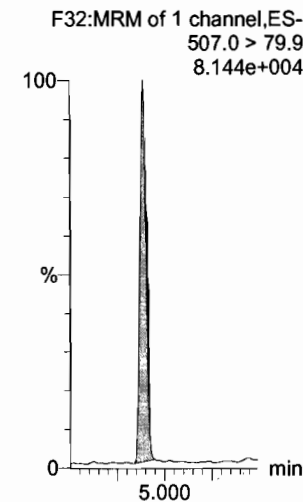
**13C5-PFNA**



**13C8-PFOA**



**13C8-PFOS**

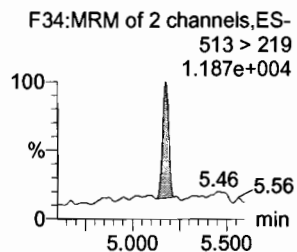
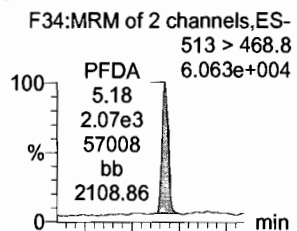


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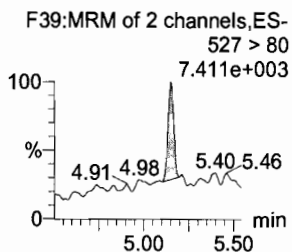
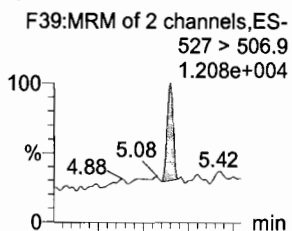
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Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_5, Date: 23-Dec-2017, Time: 13:41:47, ID: ST171223M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

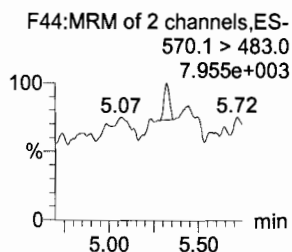
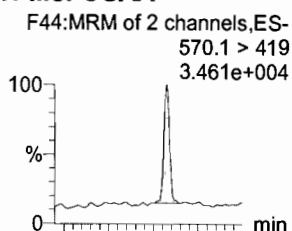
**PFDA**



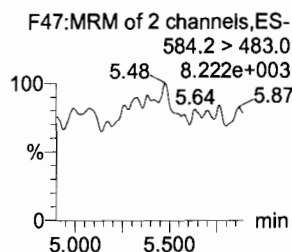
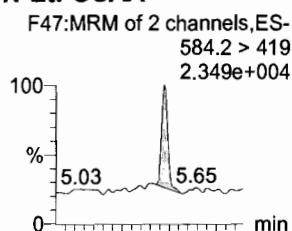
**8:2 FTS**



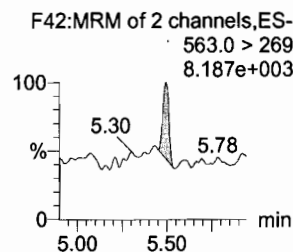
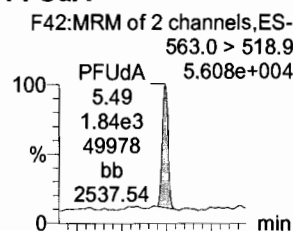
**N-MeFOSAA**



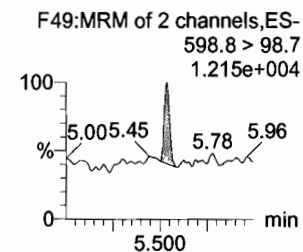
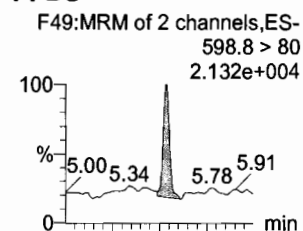
**N-EtFOSAA**



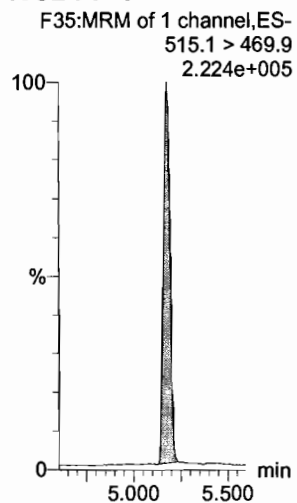
**PFUdA**



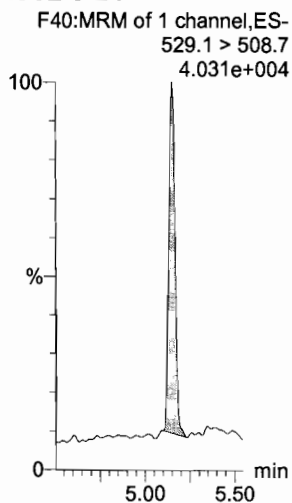
**PFDS**



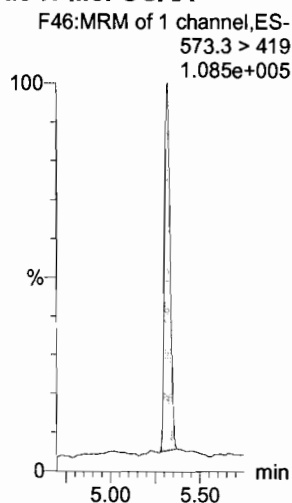
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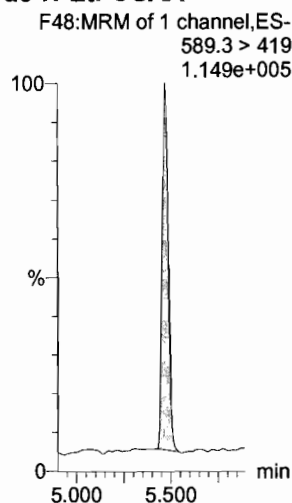
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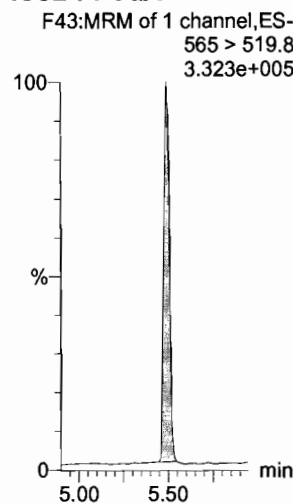
**d3-N-MeFOSAA**



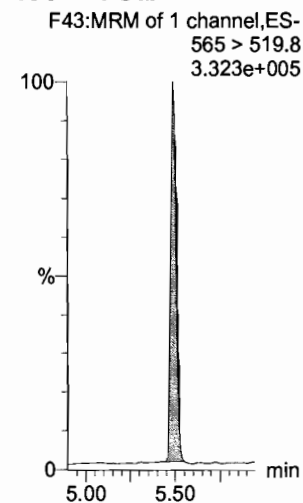
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



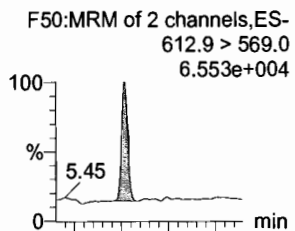
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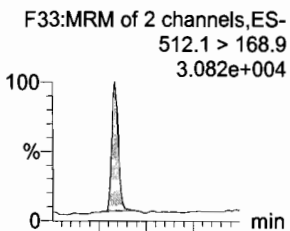
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Name: 171223M1\_5, Date: 23-Dec-2017, Time: 13:41:47, ID: ST171223M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

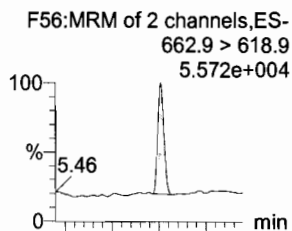
**PFD<sub>o</sub>A**



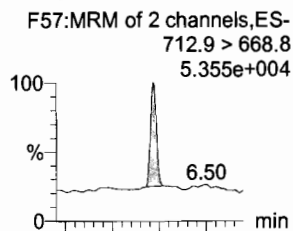
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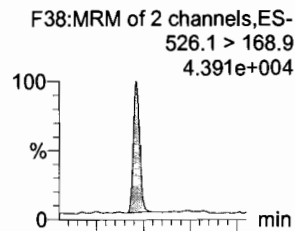
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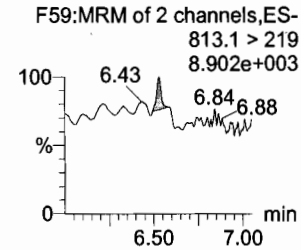
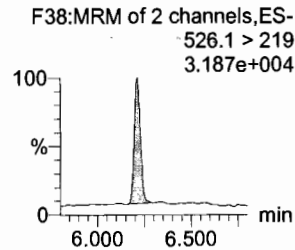
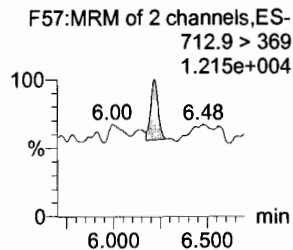
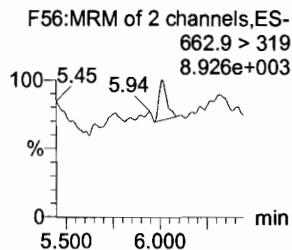
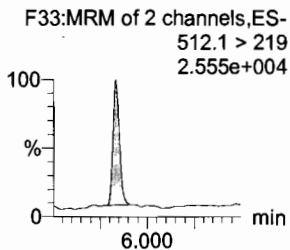
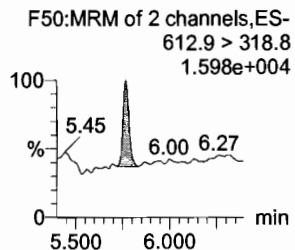
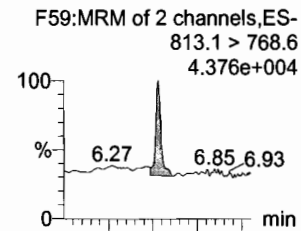
**PFT<sub>e</sub>DA**



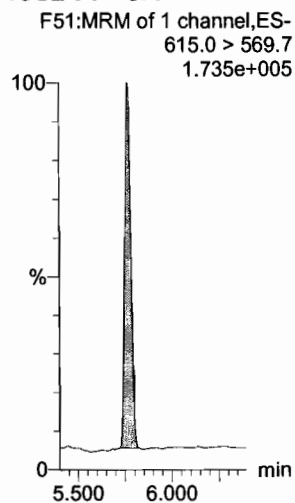
**N-EtFOSA**



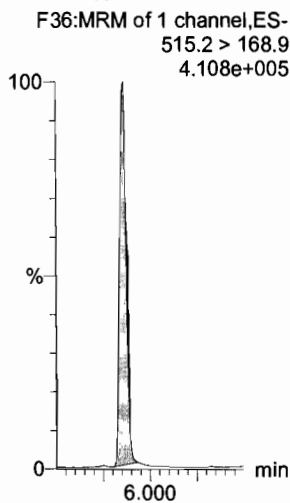
**PFH<sub>x</sub>DA**



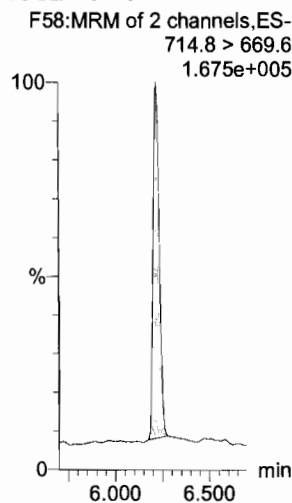
**13C2-PFD<sub>o</sub>A**



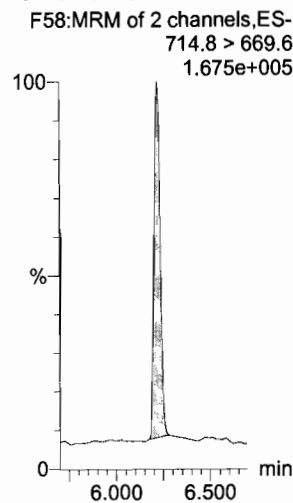
**d3-N-MeFOSA**



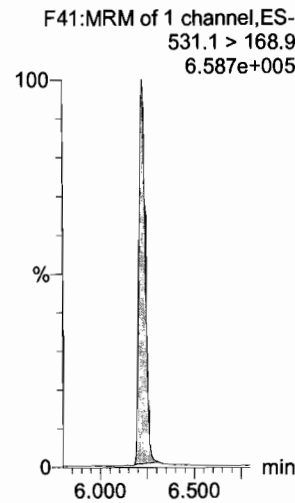
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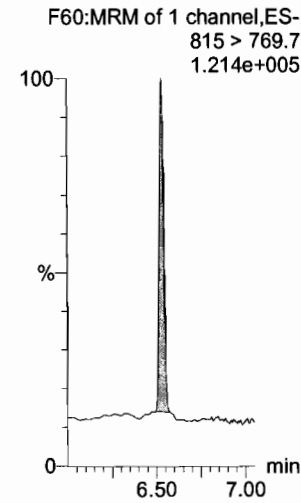
**13C2-PFT<sub>r</sub>DA**



**d5-N-ETFOSA**



**13C2-PFH<sub>x</sub>DA**



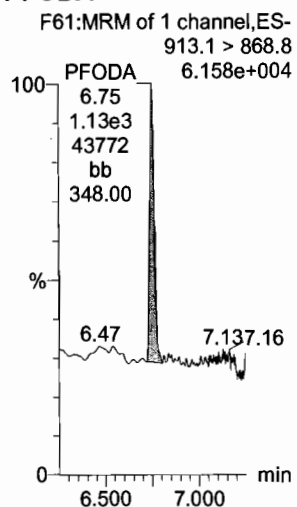
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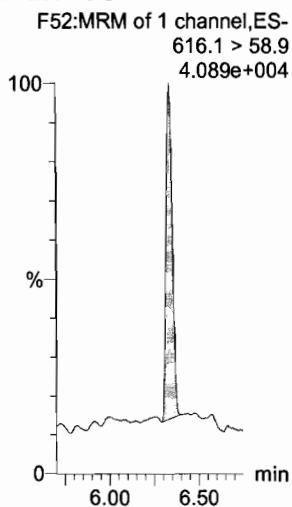
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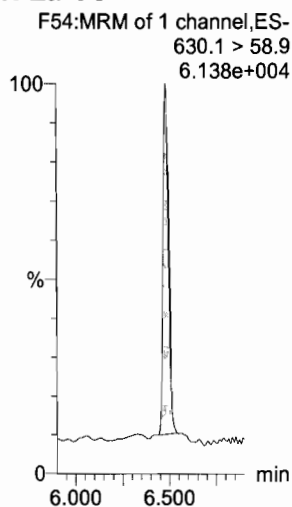
**PFODA**



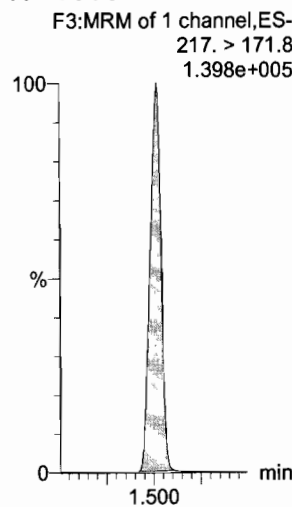
**N-MeFOSE**



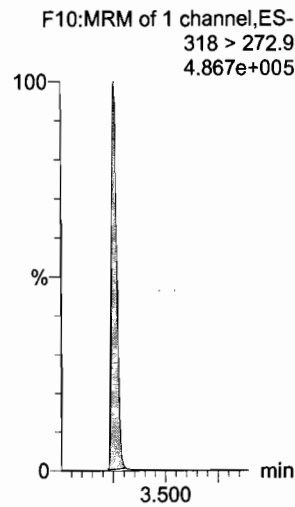
**N-EtFOSE**



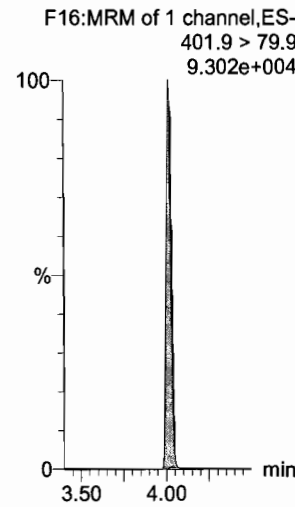
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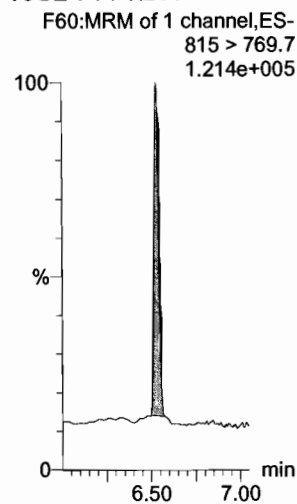
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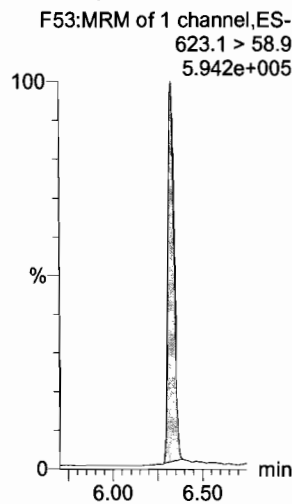
**13C3-PFHxS**



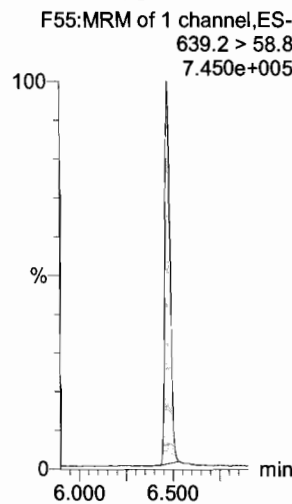
**13C2-PFHxDA**



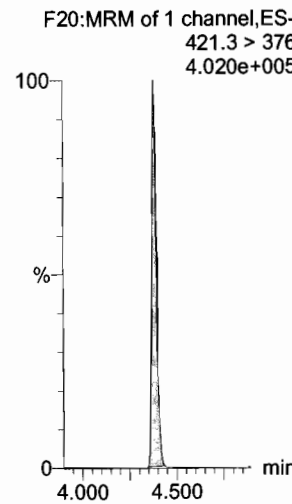
**d7-N-MeFOSE**



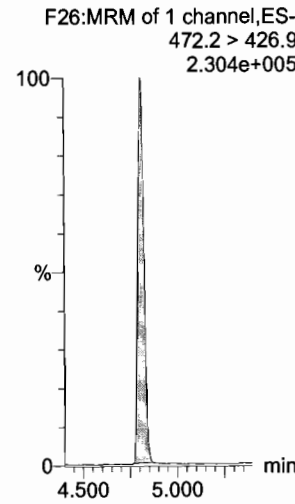
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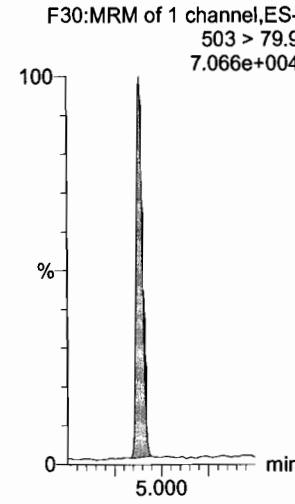
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



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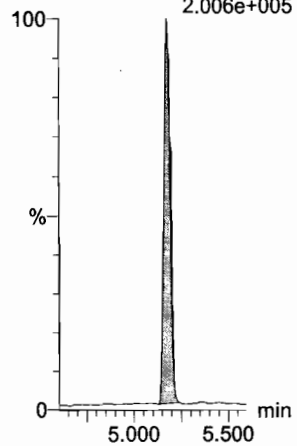
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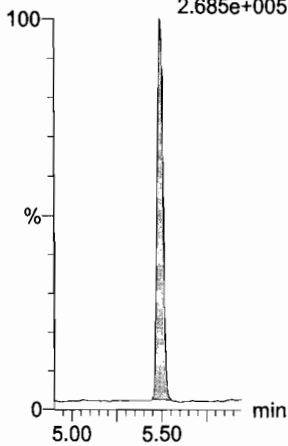
13C6-PFDA

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



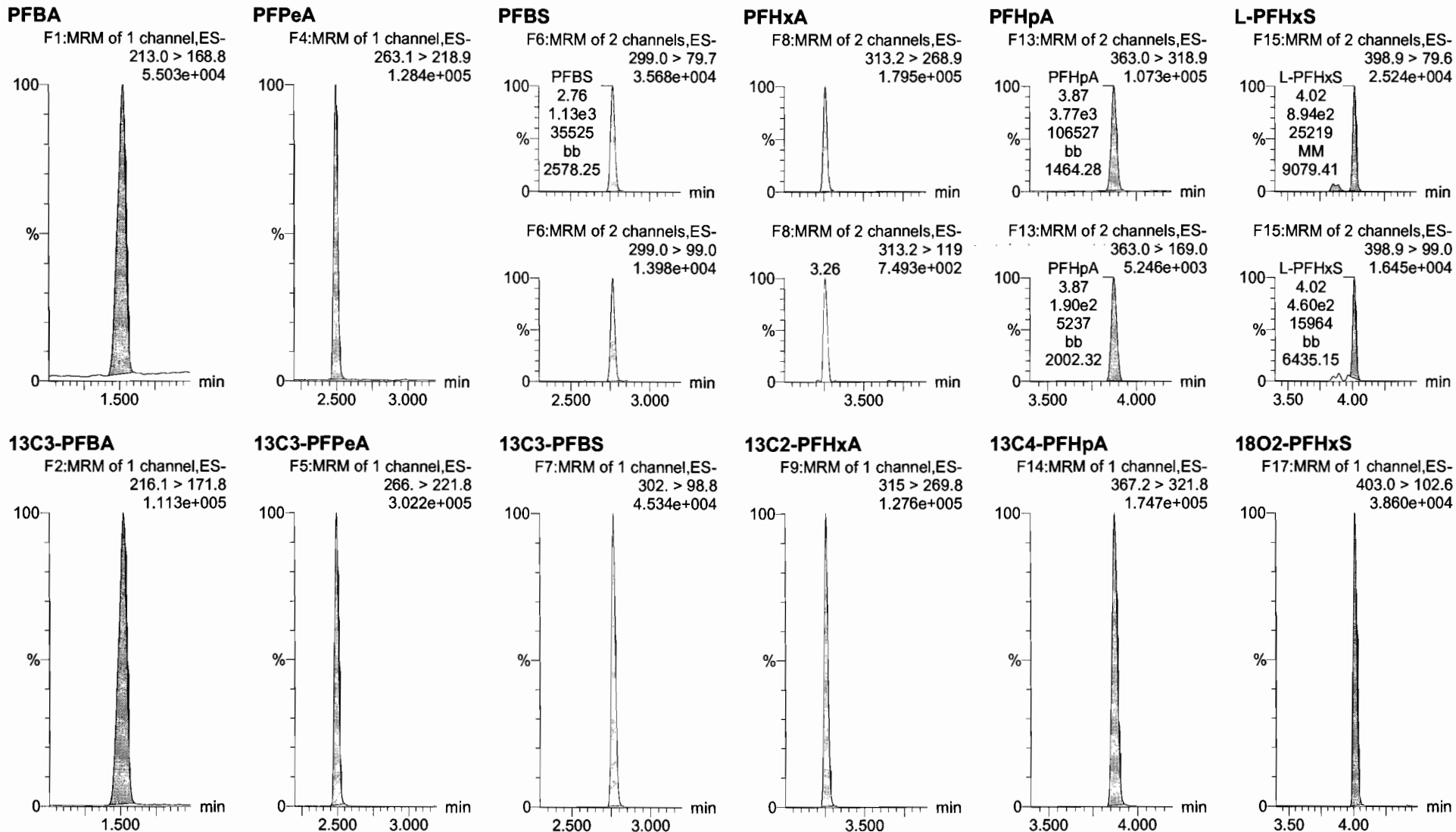


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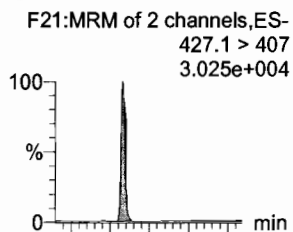
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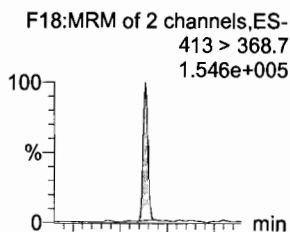
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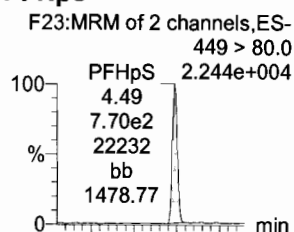
6:2 FTS



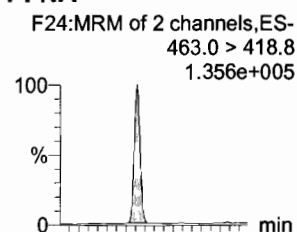
L-PFOA



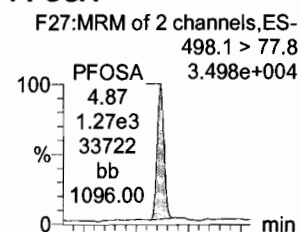
PFHpS



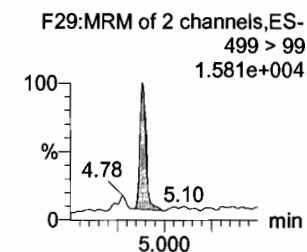
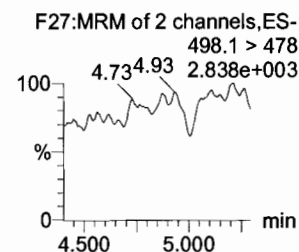
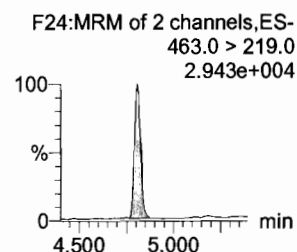
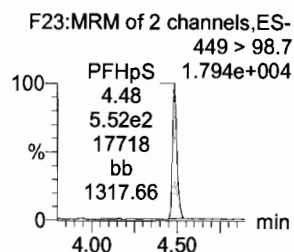
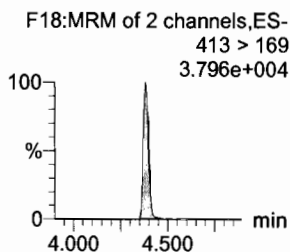
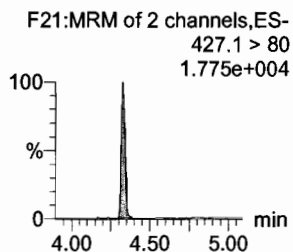
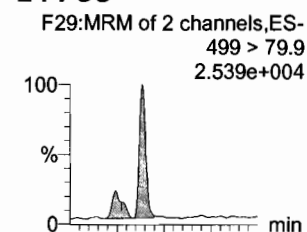
PFNA



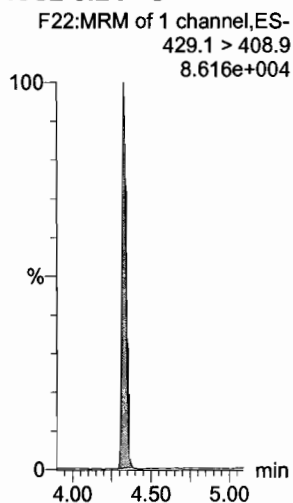
PFOSA



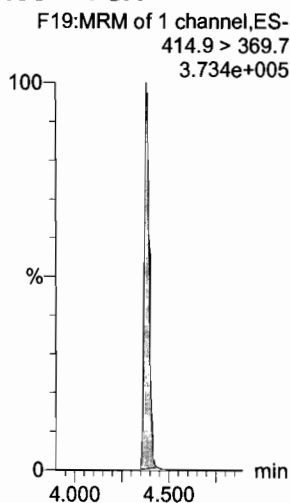
L-PFOS



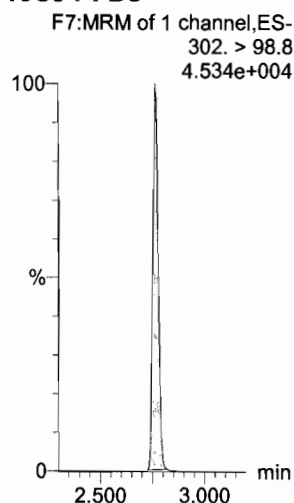
13C2-6:2 FTS



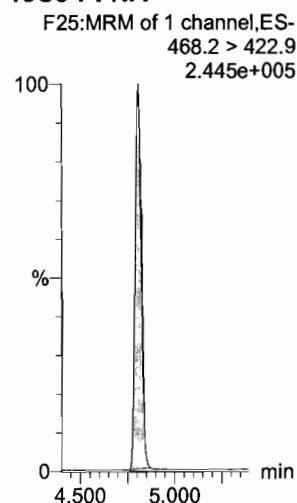
13C2-PFOA



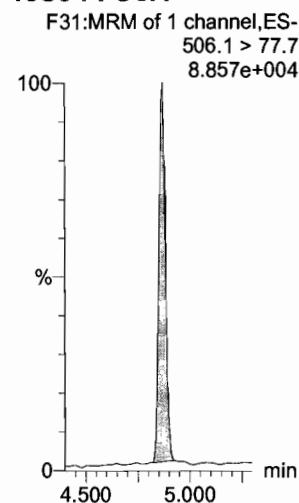
13C3-PFBS



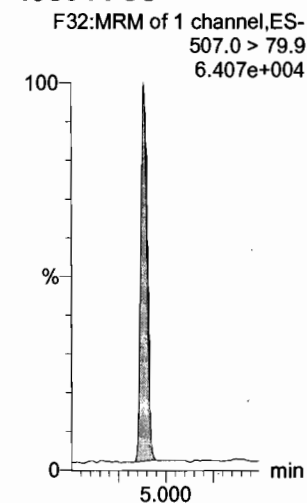
13C5-PFNA



13C8-PFOSA



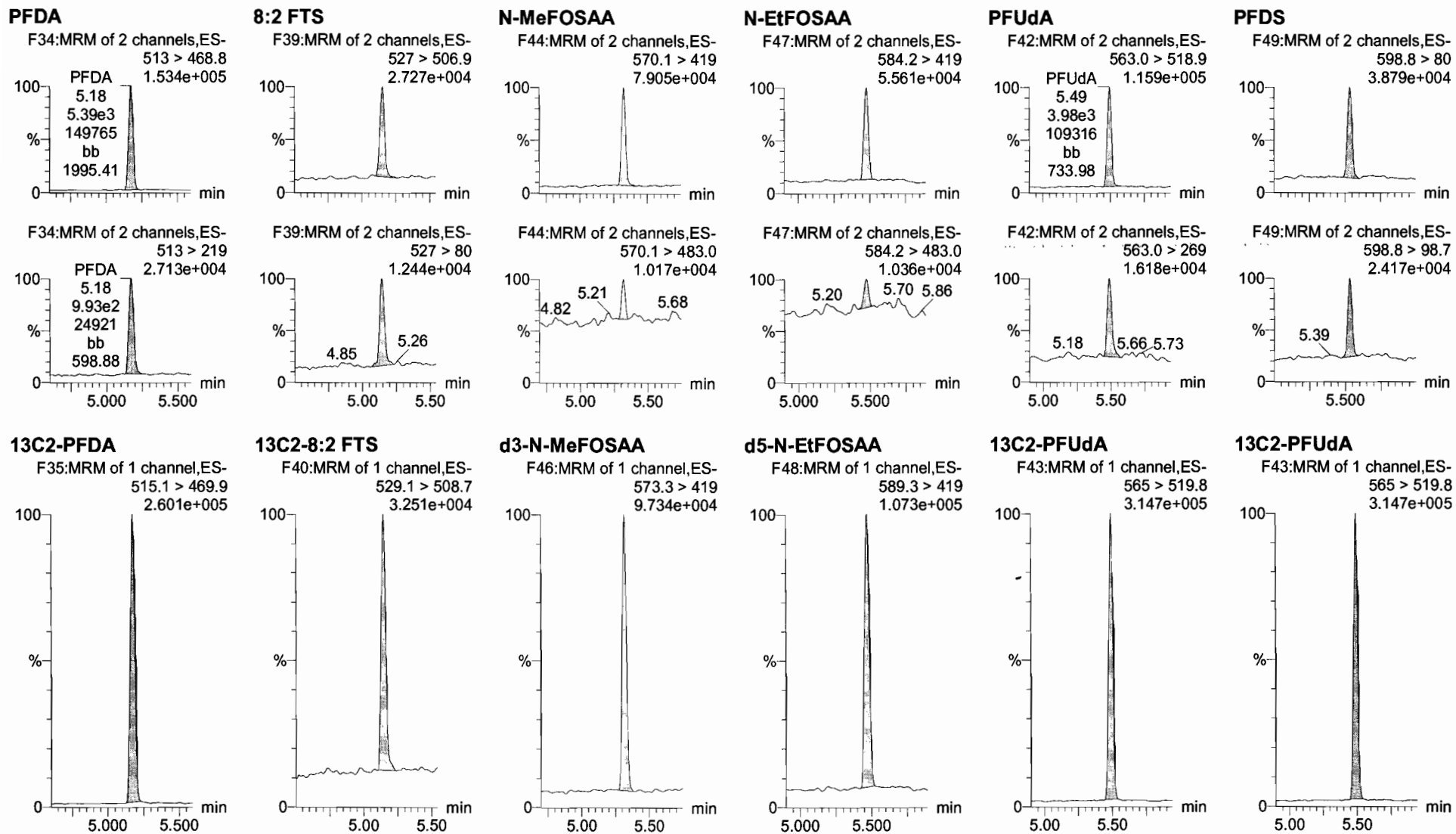
13C8-PFOS



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

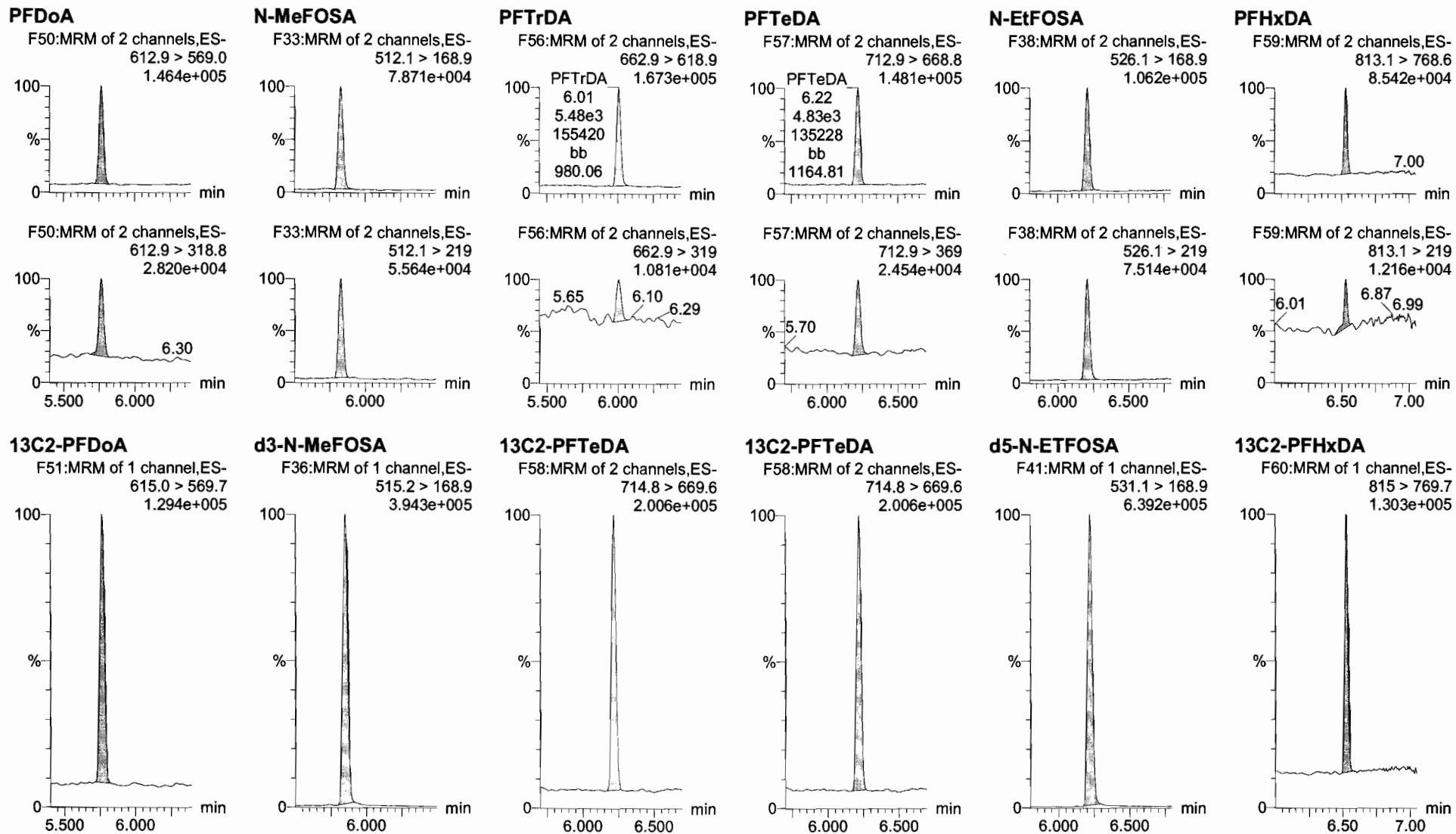
Name: 171223M1\_6, Date: 23-Dec-2017, Time: 13:52:58, ID: ST171223M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802



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\_6, Date: 23-Dec-2017, Time: 13:52:58, ID: ST171223M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802



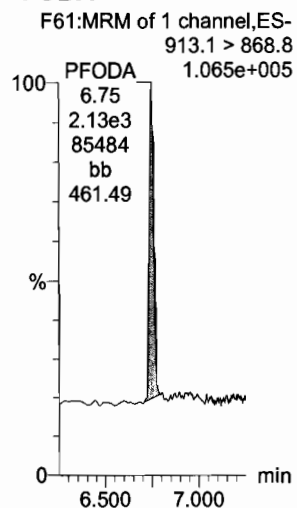
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

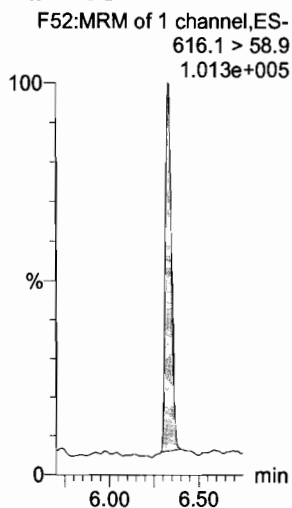
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_6, Date: 23-Dec-2017, Time: 13:52:58, ID: ST171223M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802

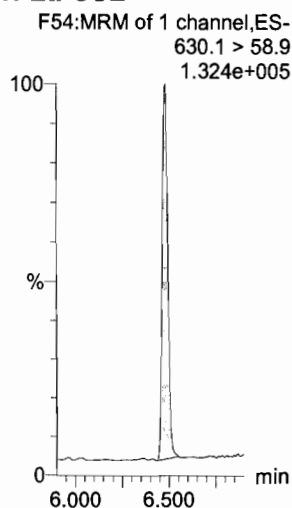
**PFODA**



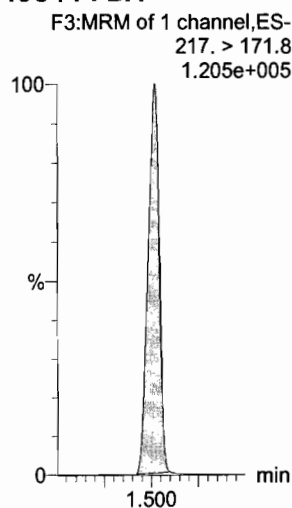
**N-MeFOSE**



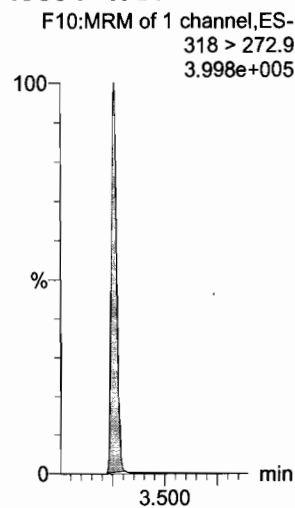
**N-EtFOSE**



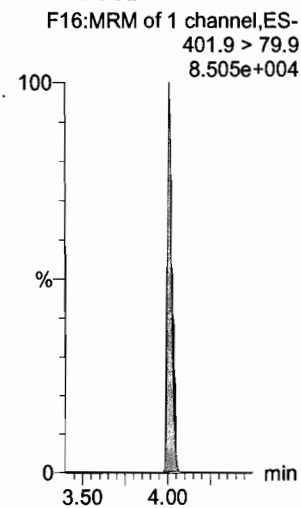
**13C4-PFBA**



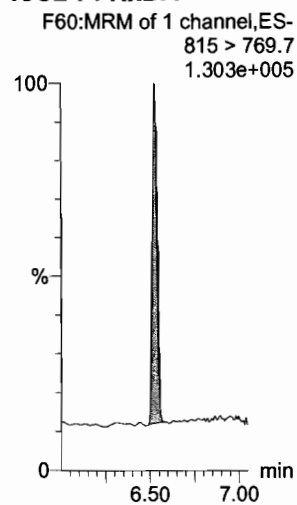
**13C5-PFHxA**



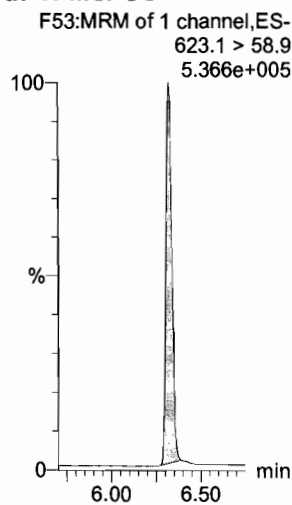
**13C3-PFHxS**



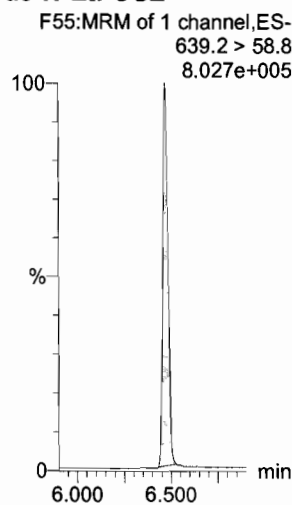
**13C2-PFHxDa**



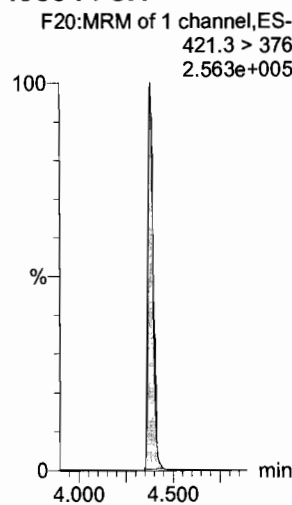
**d7-N-MeFOSE**



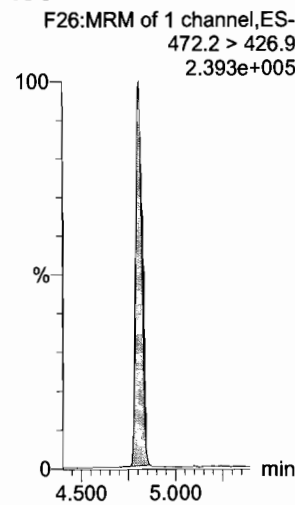
**d9-N-EtFOSE**



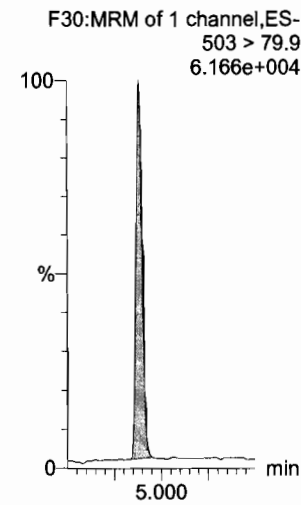
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



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

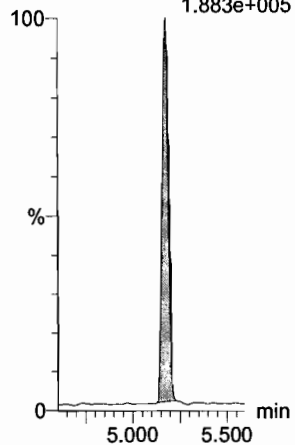
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_6, Date: 23-Dec-2017, Time: 13:52:58, ID: ST171223M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802

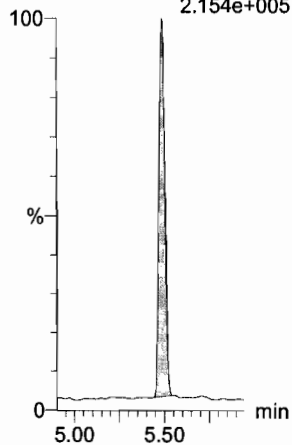
13C6-PFDA

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

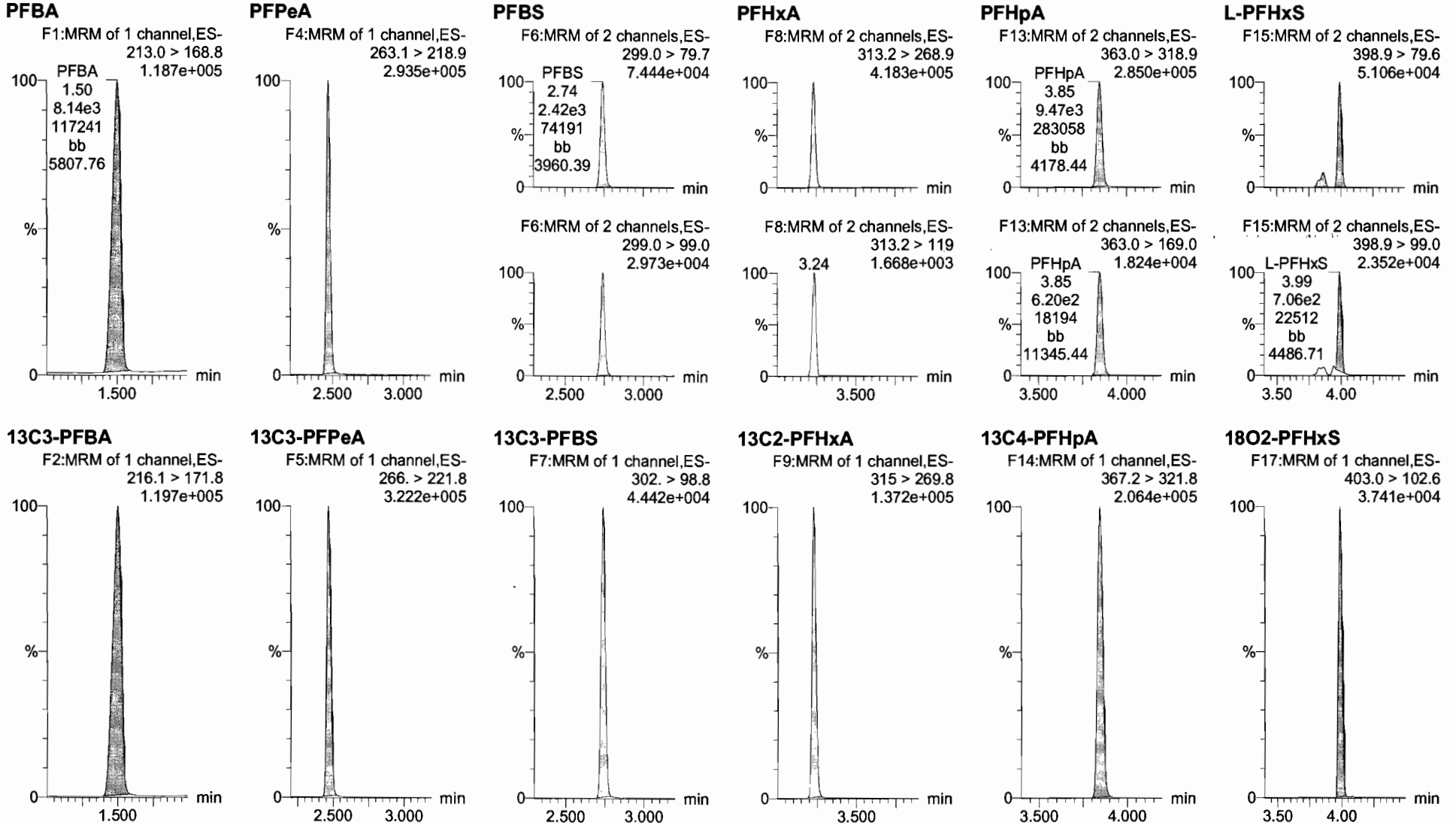


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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

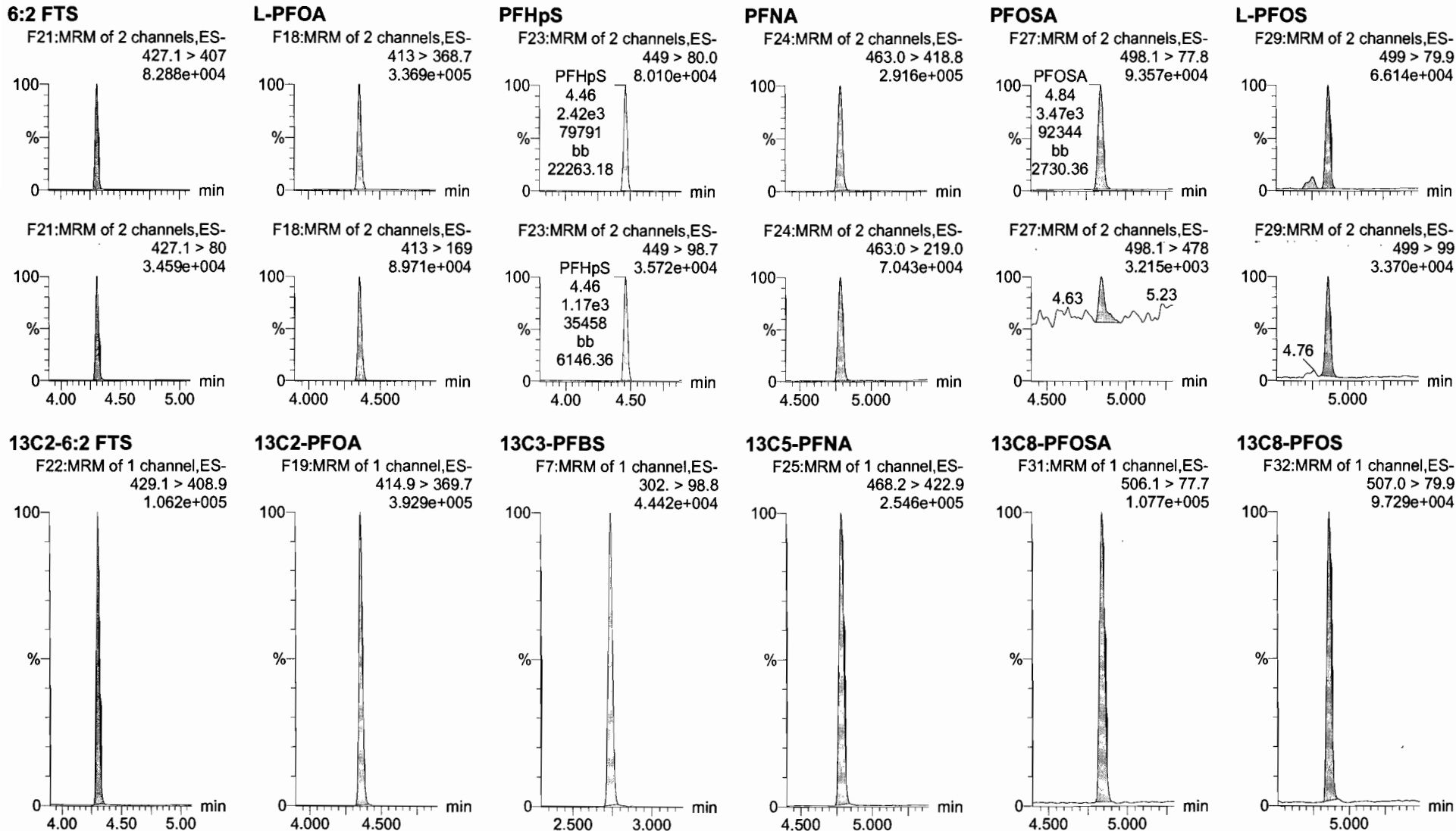


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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\_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207





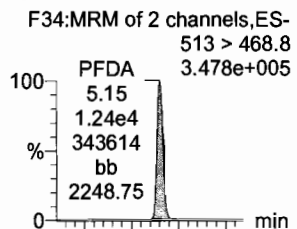
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

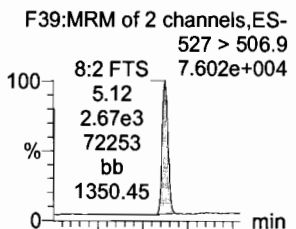
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

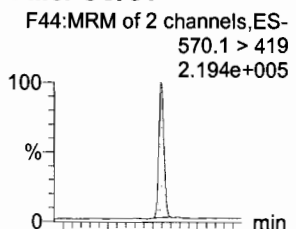
**PFDA**



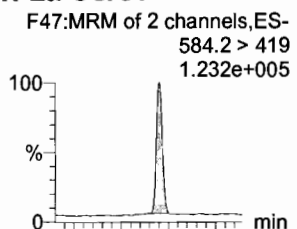
**8:2 FTS**



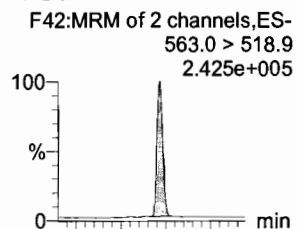
**N-MeFOSAA**



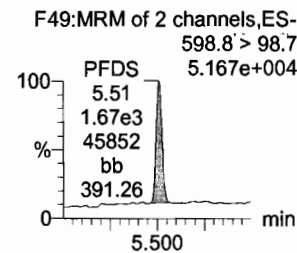
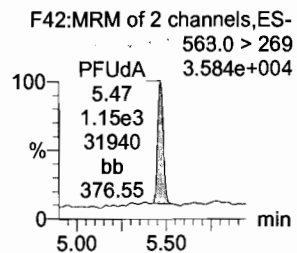
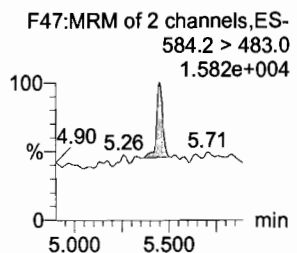
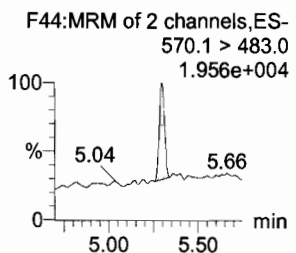
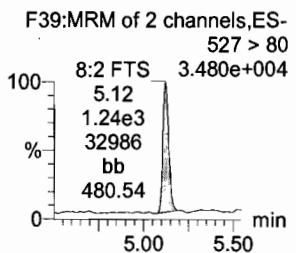
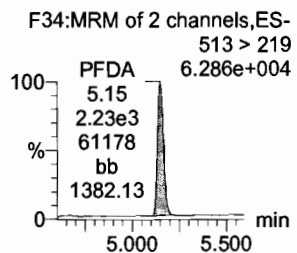
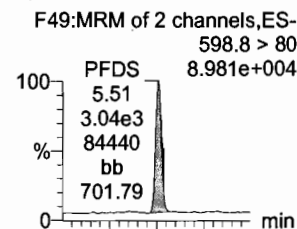
**N-EtFOSAA**



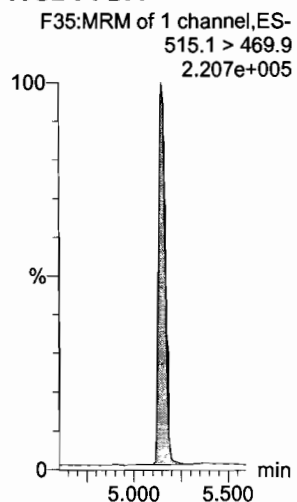
**PFUdA**



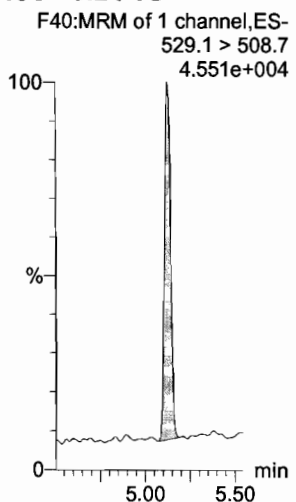
**PFDS**



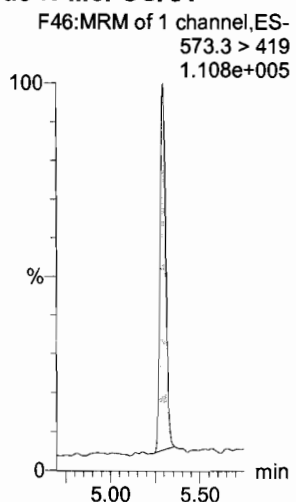
**13C2-PFDA**



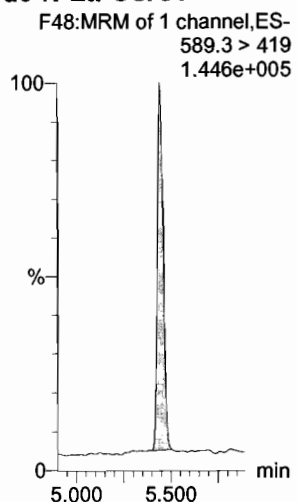
**13C2-8:2 FTS**



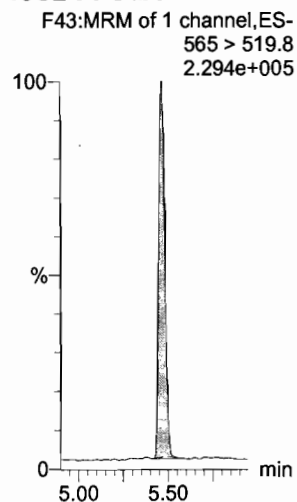
**d3-N-MeFOSAA**



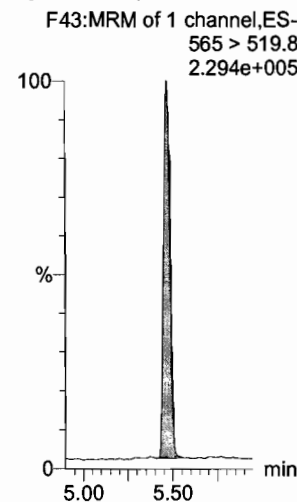
**d5-N-EtFOSAA**



**13C2-PFUdA**



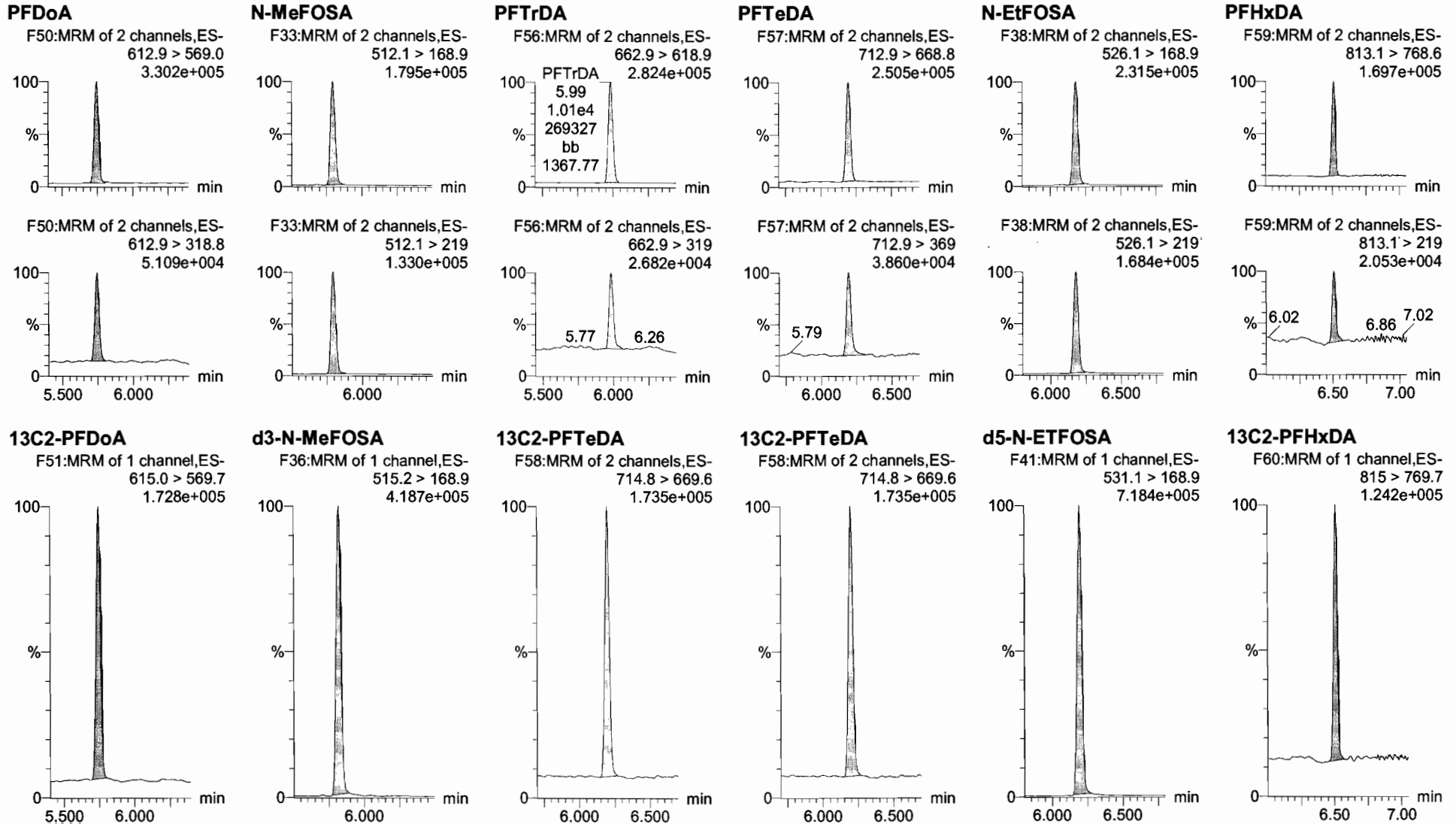
**13C2-PFUdA**



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

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Name: 171223M1\_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207



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

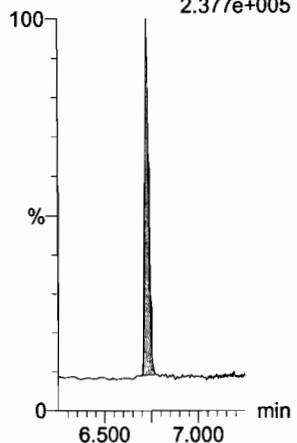
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

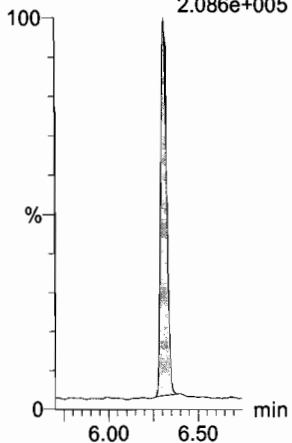
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
2.377e+005



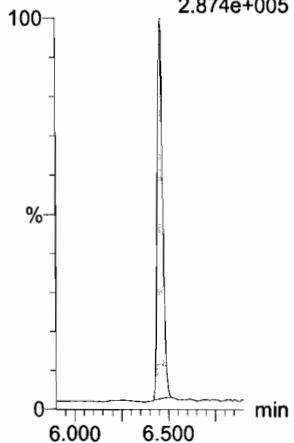
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.086e+005



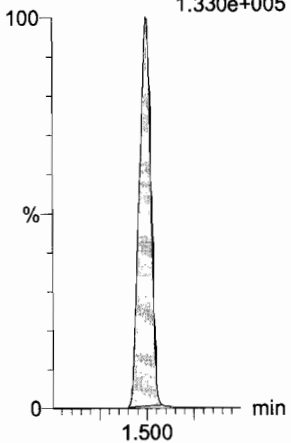
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
2.874e+005



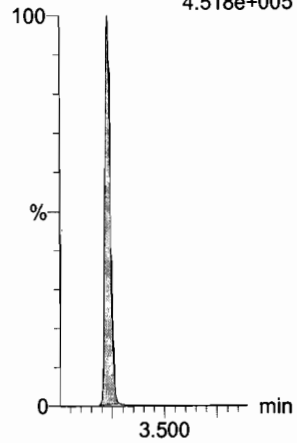
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.330e+005



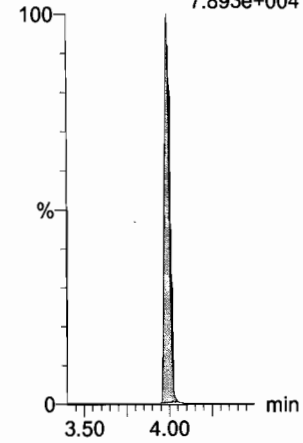
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.518e+005



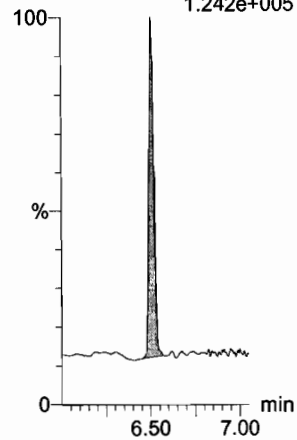
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.893e+004



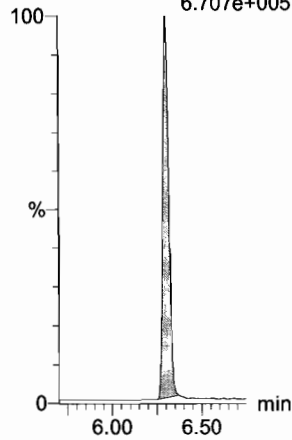
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.242e+005



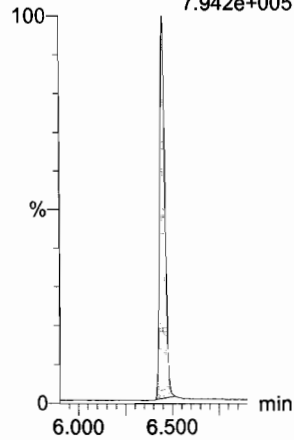
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
6.707e+005



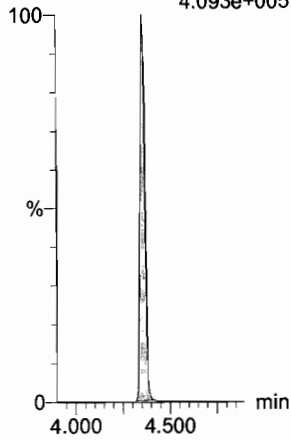
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
7.942e+005



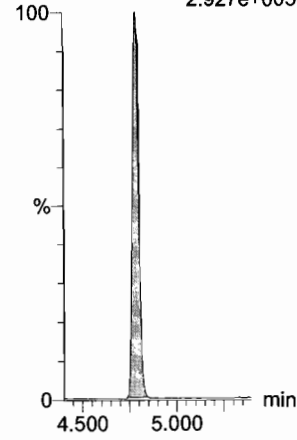
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
4.093e+005



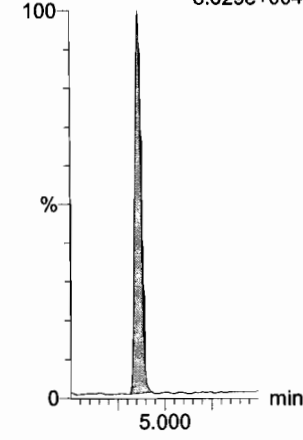
**13C9-PFNA**

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



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

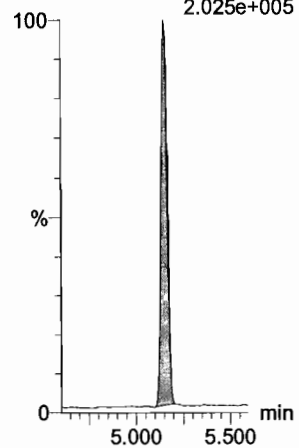
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_7, Date: 23-Dec-2017, Time: 14:04:09, ID: ST171223M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

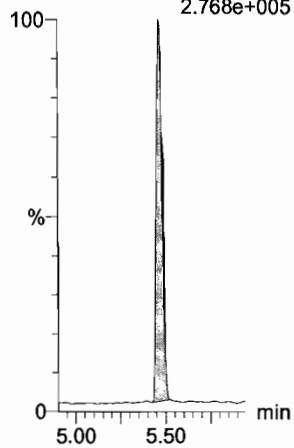
13C6-PFDA

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



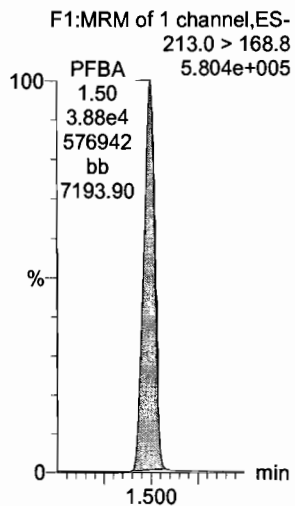
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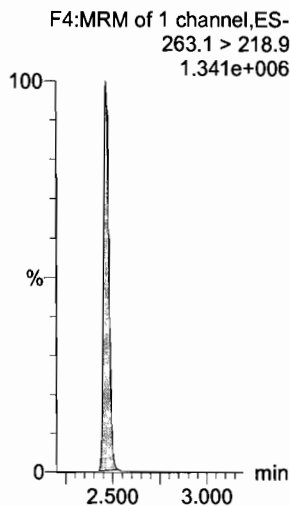
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

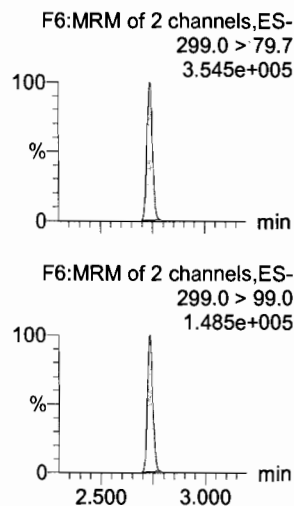
**PFBA**



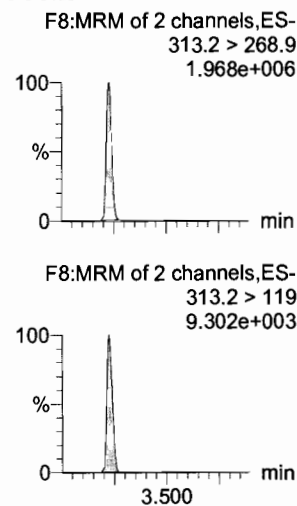
**PFPeA**



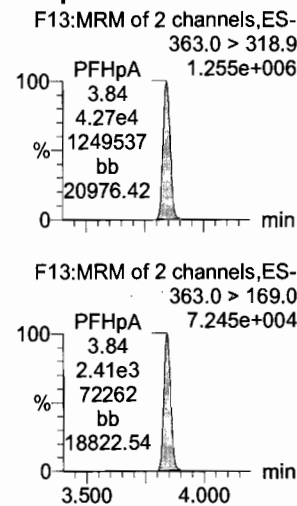
**PFBS**



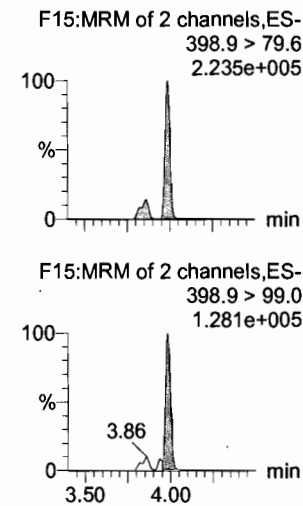
**PFHxA**



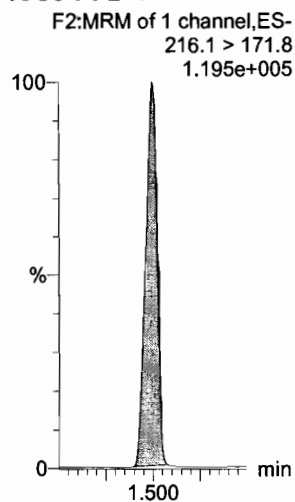
**PFHpA**



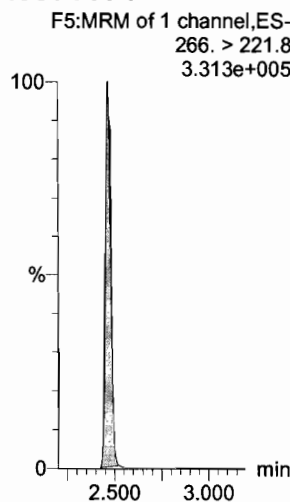
**L-PFHxS**



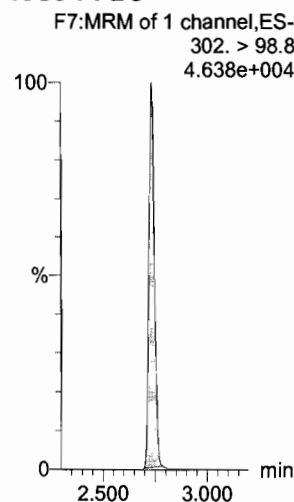
**13C3-PFBA**



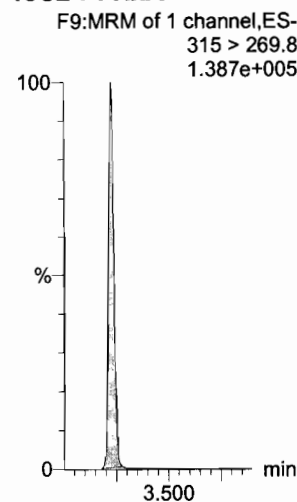
**13C3-PFPeA**



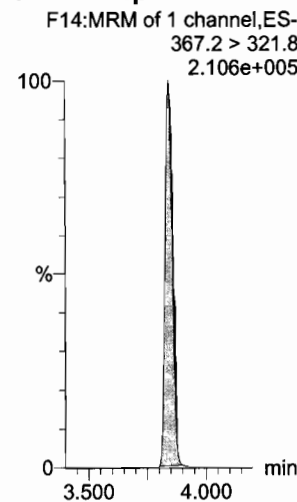
**13C3-PFBS**



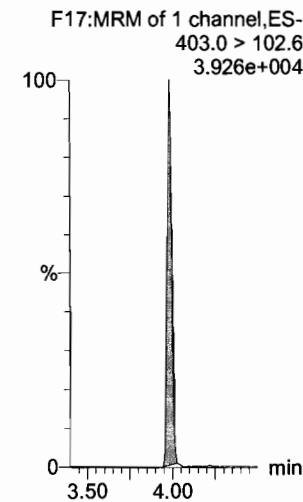
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

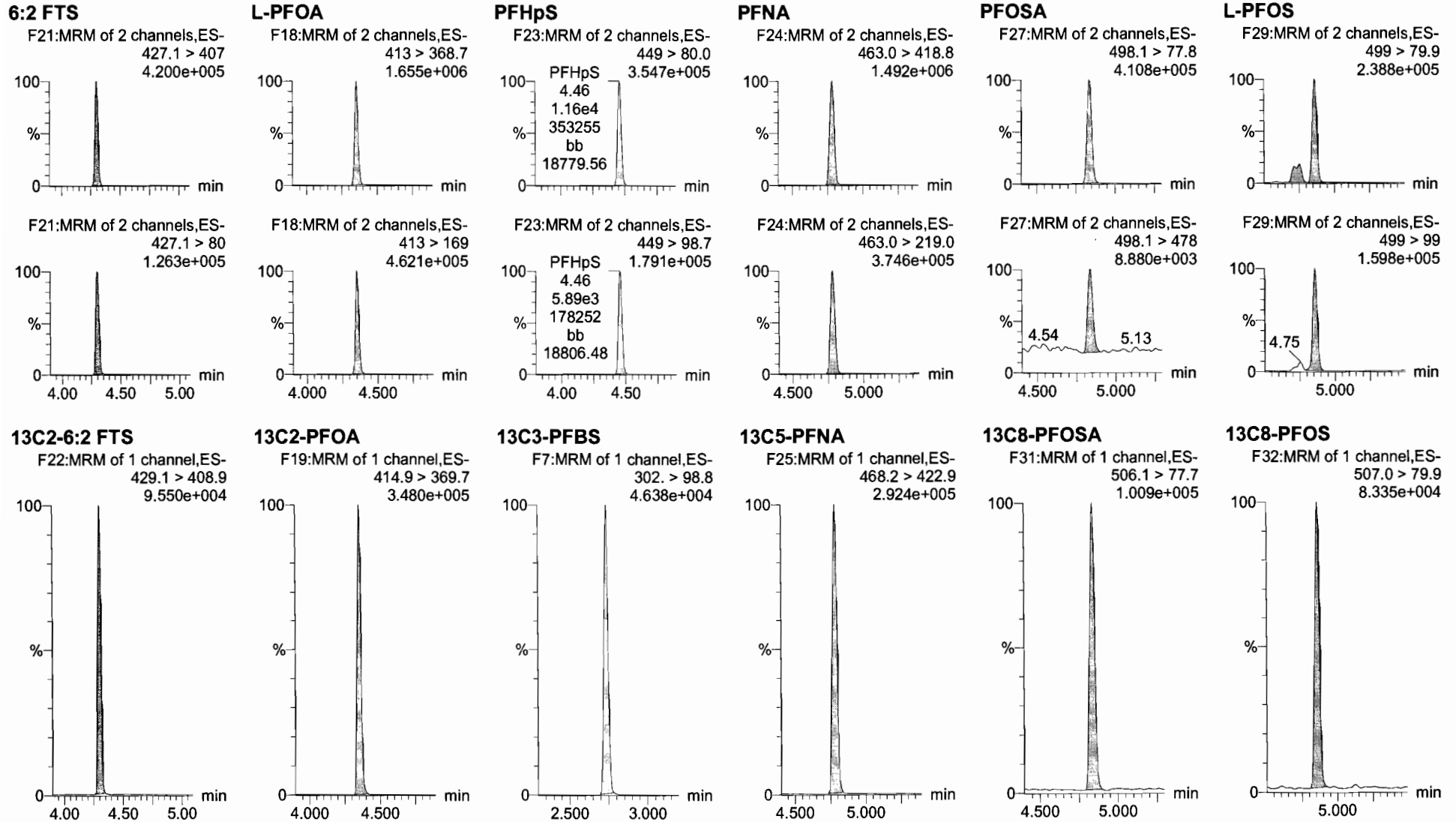


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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\_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

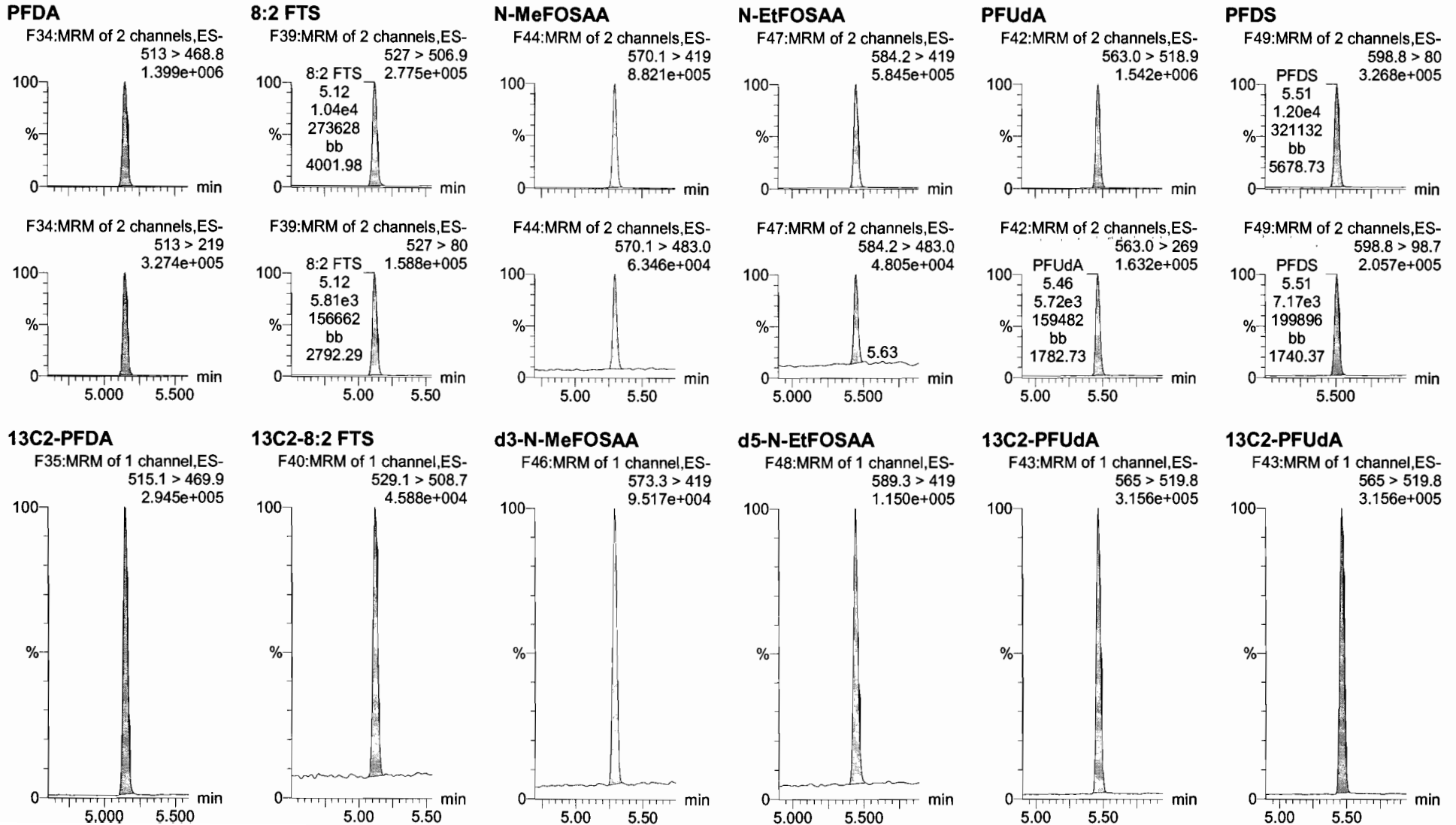


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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208



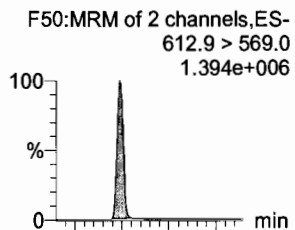
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

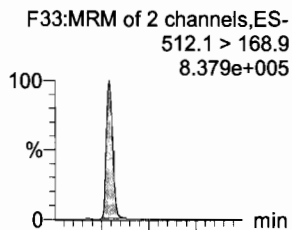
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Name: 171223M1\_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

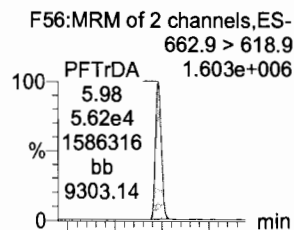
**PFDoA**



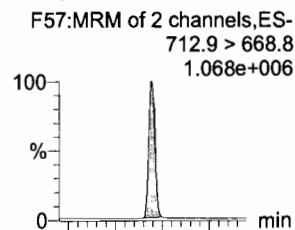
**N-MeFOSA**



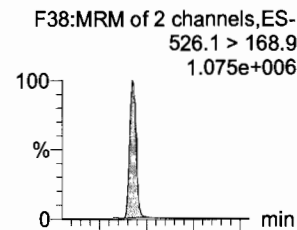
**PFTrDA**



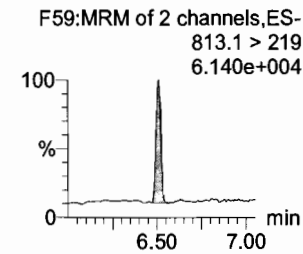
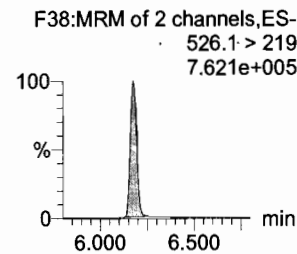
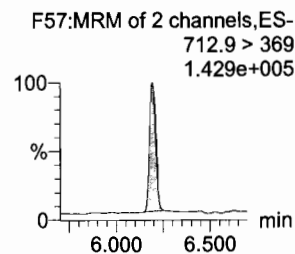
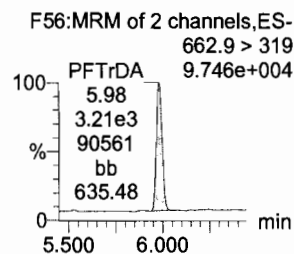
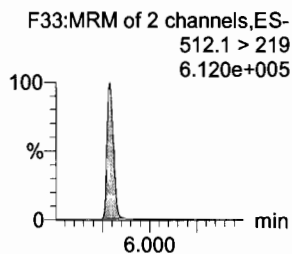
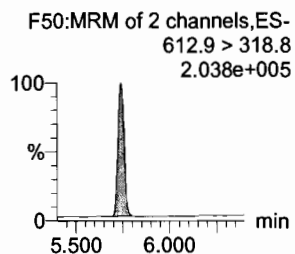
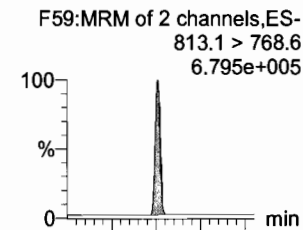
**PFTeDA**



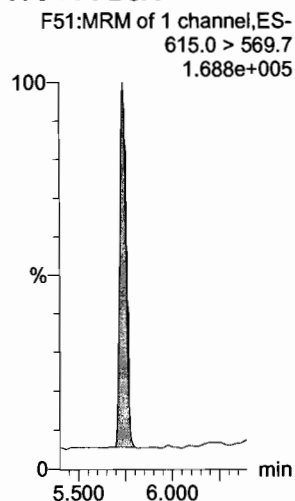
**N-EtFOSA**



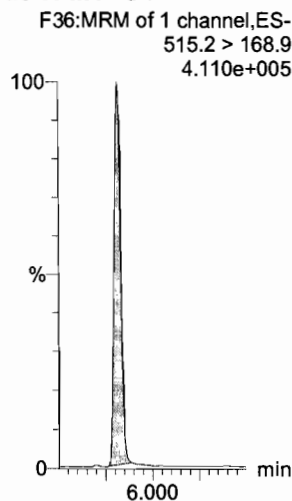
**PFHxDA**



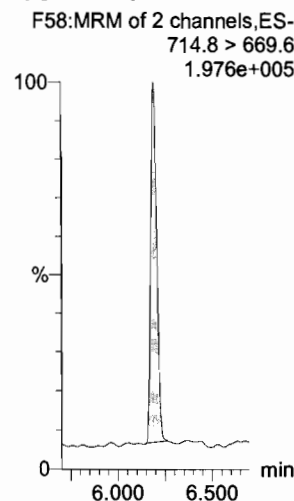
**13C2-PFDoA**



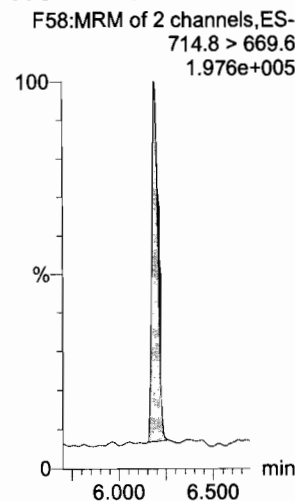
**d3-N-MeFOSA**



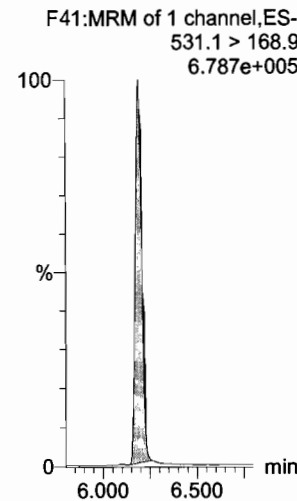
**13C2-PFTeDA**



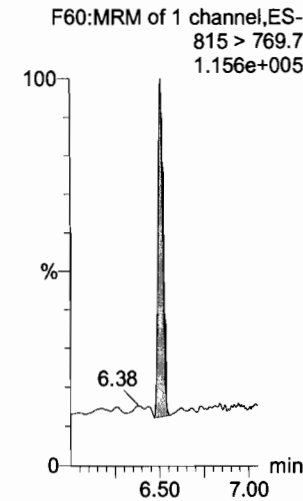
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**





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

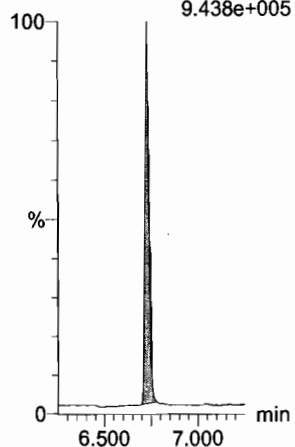
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

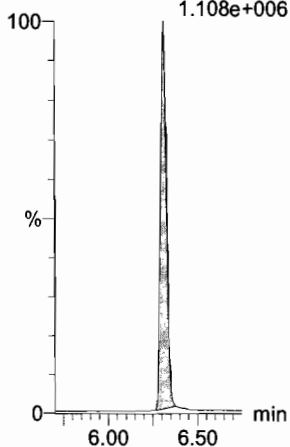
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
9.438e+005



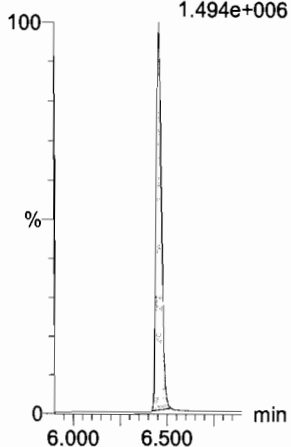
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
1.108e+006



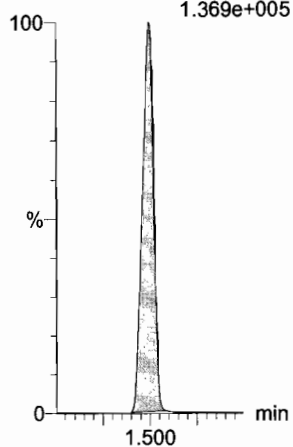
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
1.494e+006



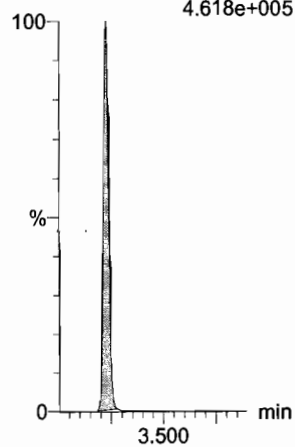
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.369e+005



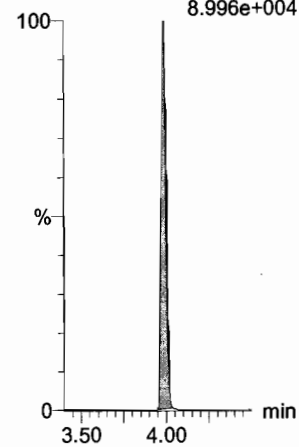
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.618e+005



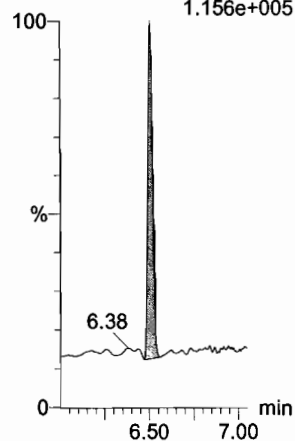
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
8.996e+004



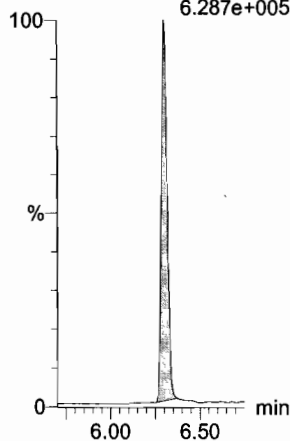
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.156e+005



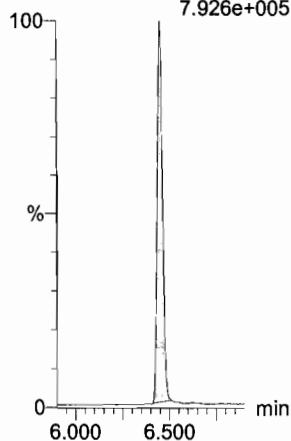
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
6.287e+005



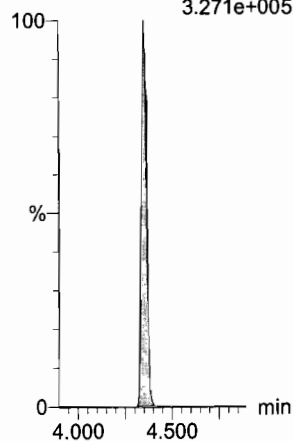
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
7.926e+005



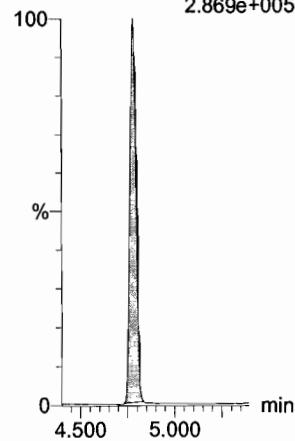
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
3.271e+005



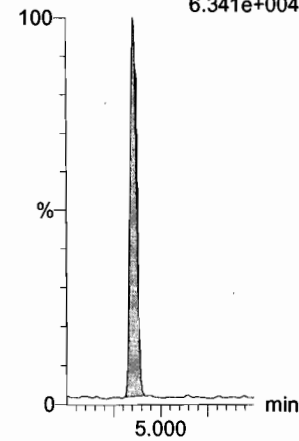
**13C9-PFNA**

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

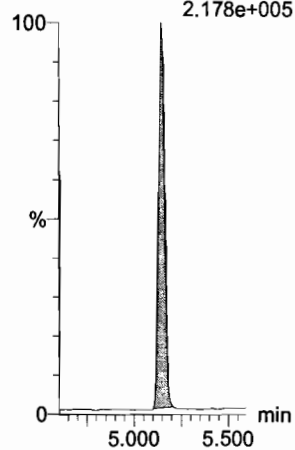
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_8, Date: 23-Dec-2017, Time: 14:15:20, ID: ST171223M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

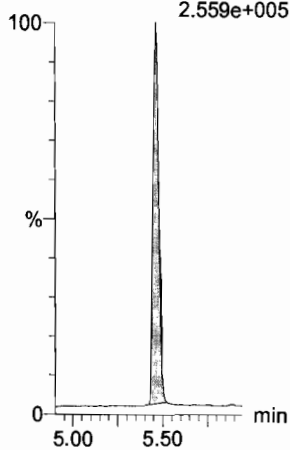
13C6-PFDA

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



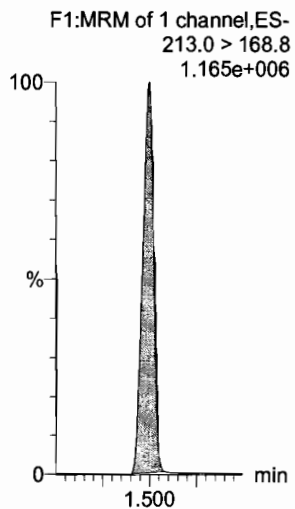
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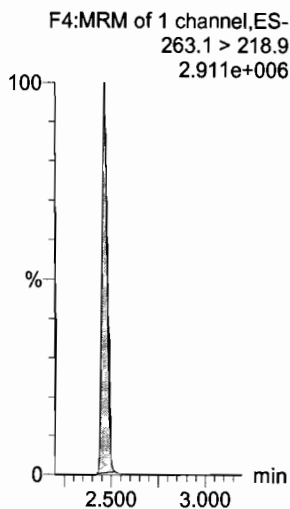
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Name: 171223M1\_9, Date: 23-Dec-2017, Time: 14:26:30, ID: ST171223M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

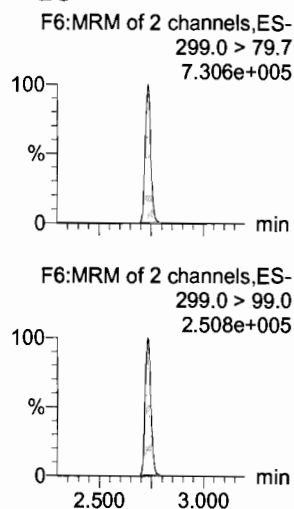
**PFBA**



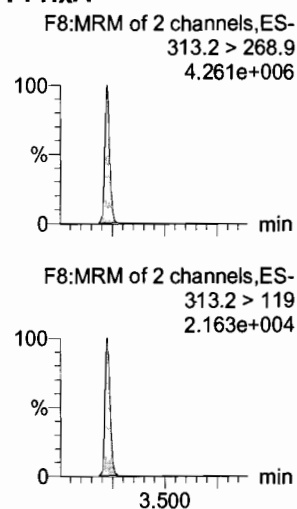
**PFPeA**



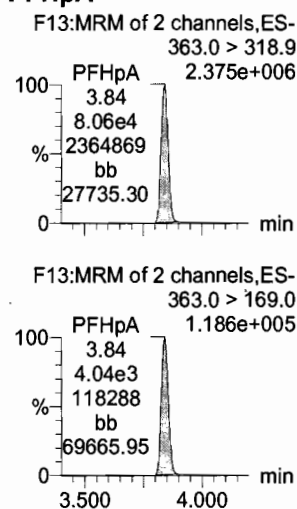
**PFBS**



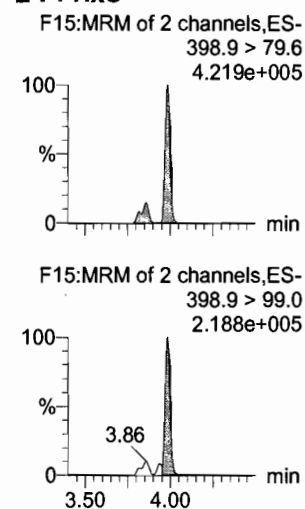
**PFHxA**



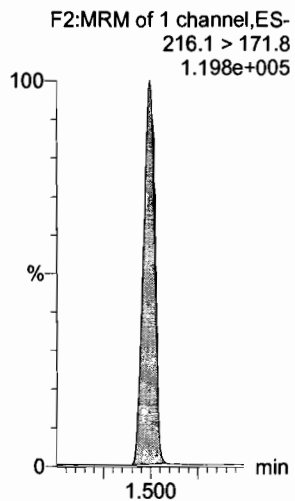
**PFHpA**



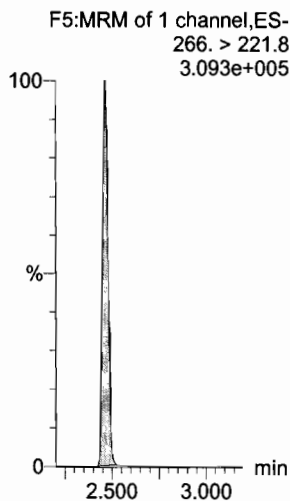
**L-PFHxS**



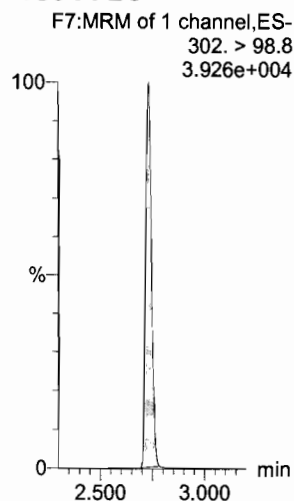
**13C3-PFBA**



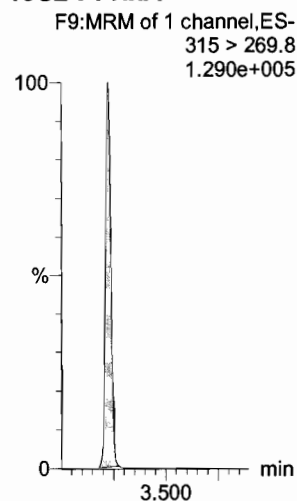
**13C3-PFPeA**



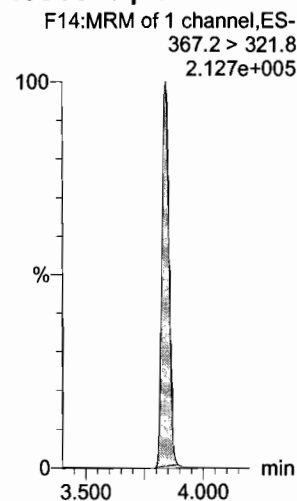
**13C3-PFBS**



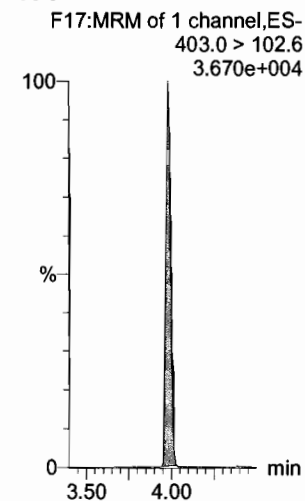
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

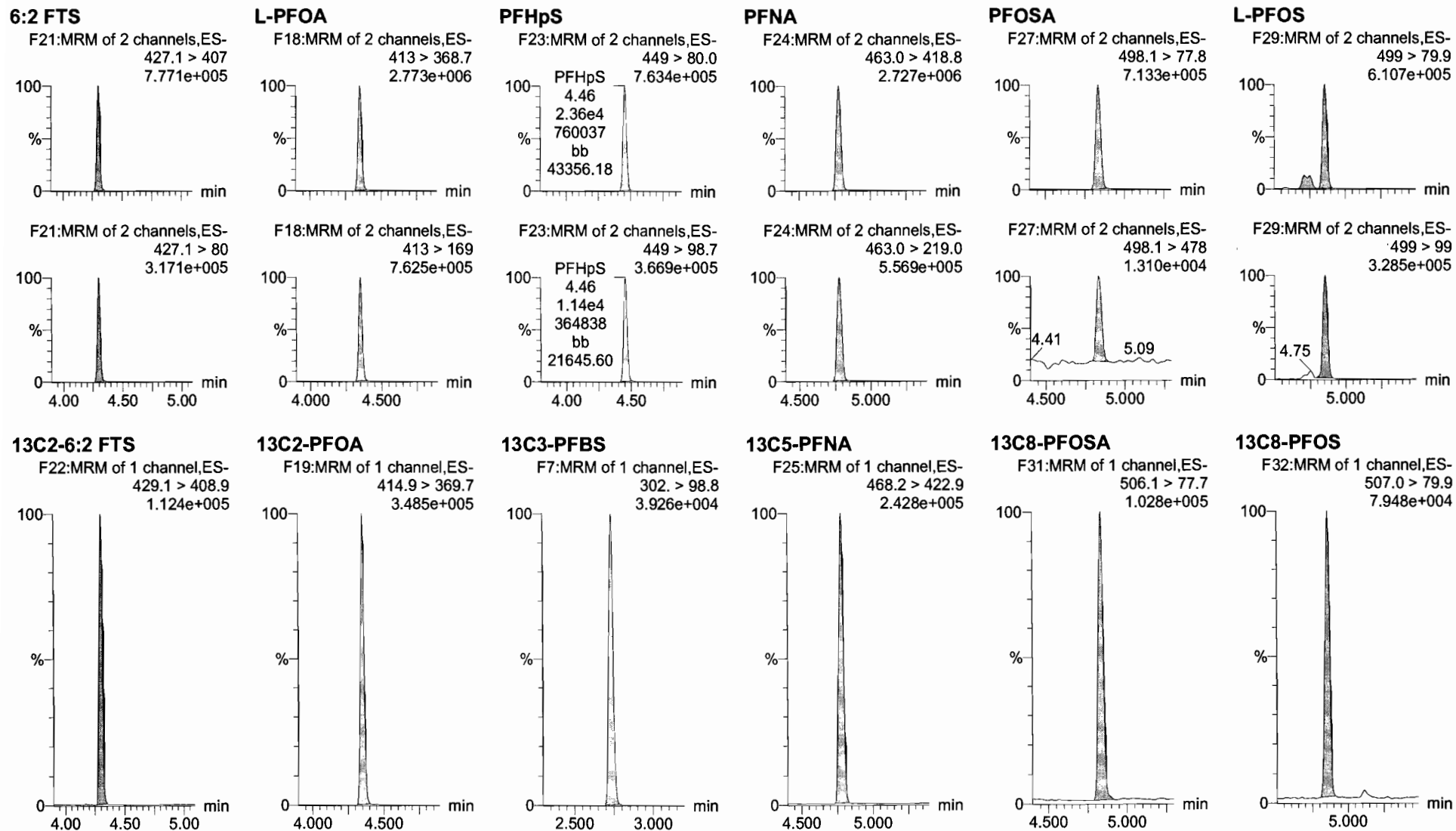


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Name: 171223M1\_9, Date: 23-Dec-2017, Time: 14:26:30, ID: ST171223M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209



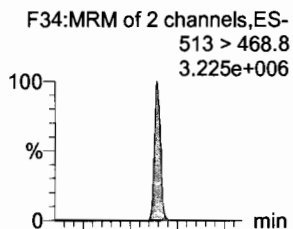
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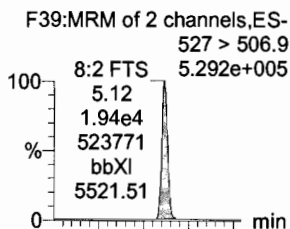
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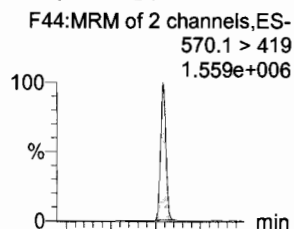
**PFDA**



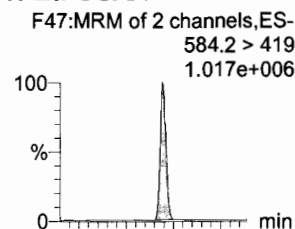
**8:2 FTS**



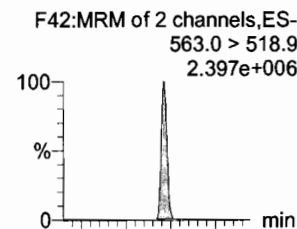
**N-MeFOSAA**



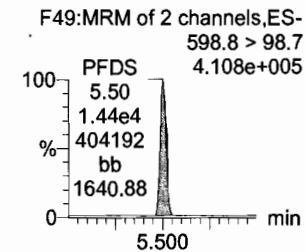
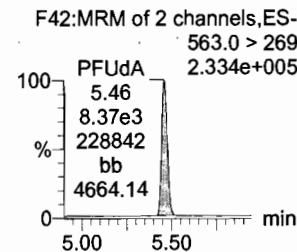
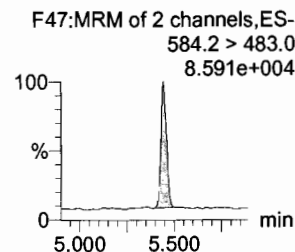
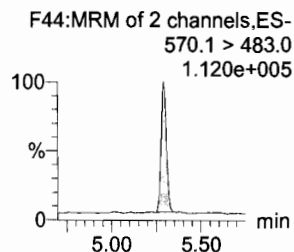
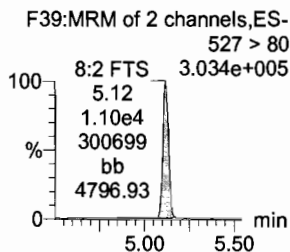
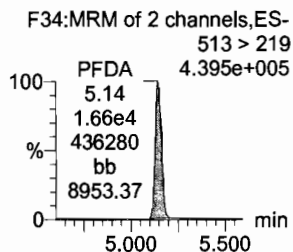
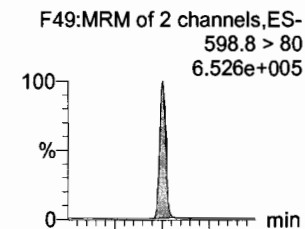
**N-EtFOSAA**



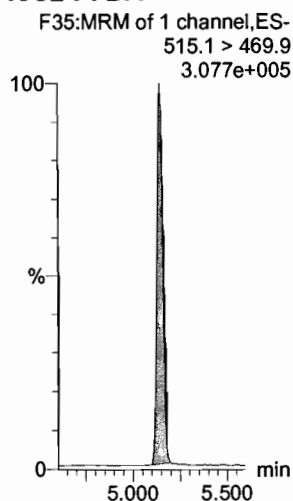
**PFUdA**



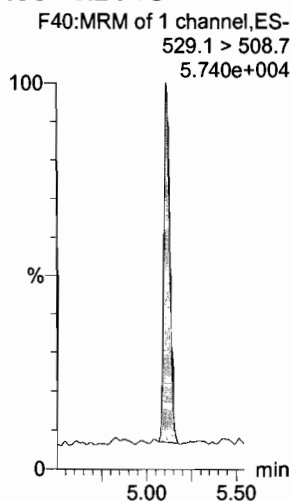
**PFDS**



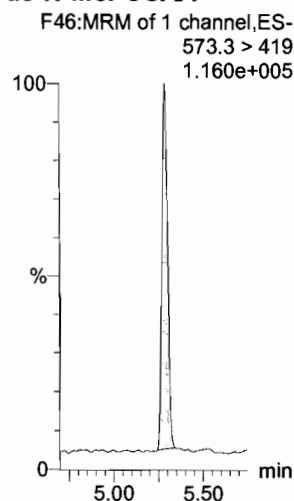
**13C2-PFDA**



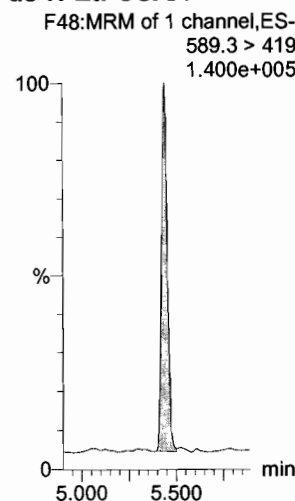
**13C2-8:2 FTS**



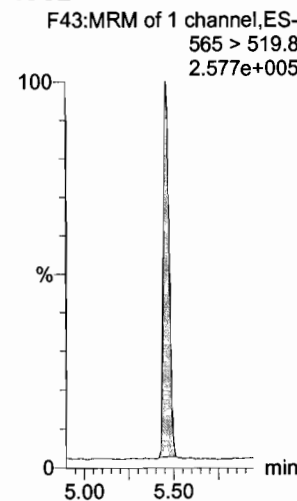
**d3-N-MeFOSAA**



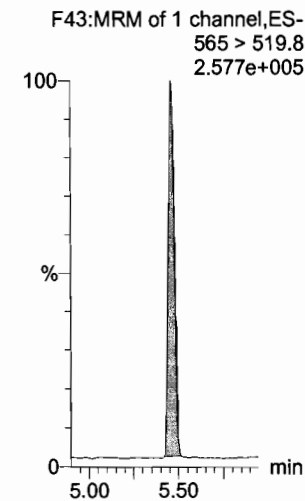
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUDa**



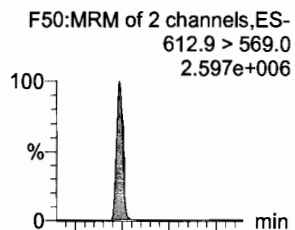
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Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

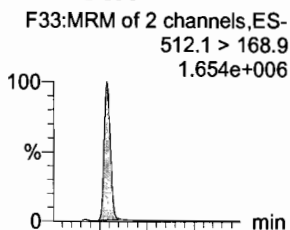
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_9, Date: 23-Dec-2017, Time: 14:26:30, ID: ST171223M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

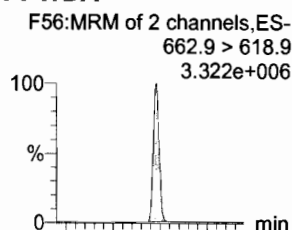
**PFDoA**



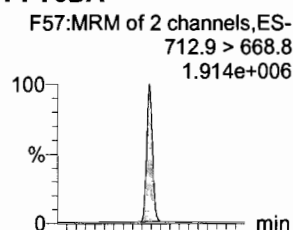
**N-MeFOSA**



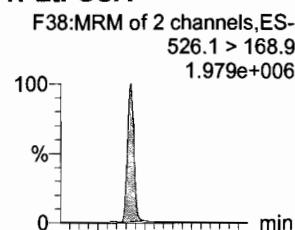
**PFTrDA**



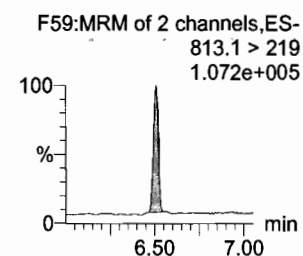
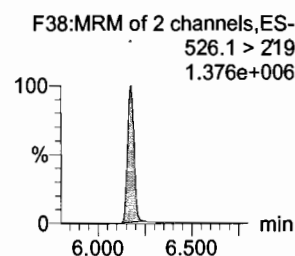
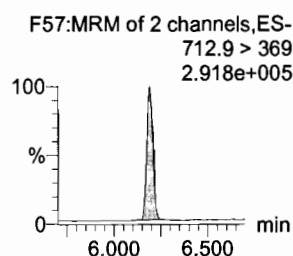
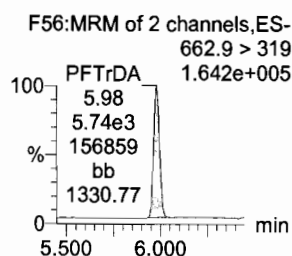
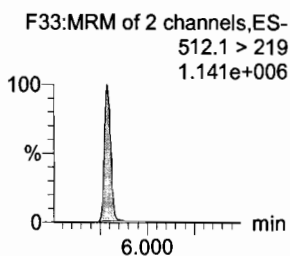
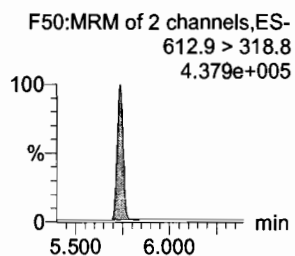
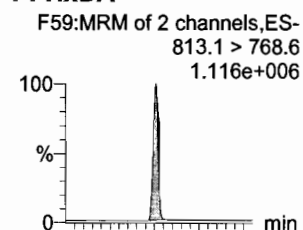
**PFTeDA**



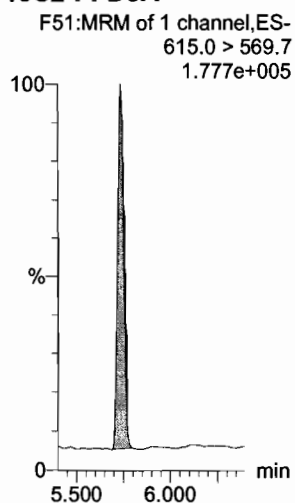
**N-EtFOSA**



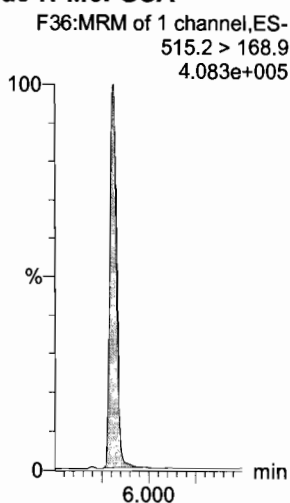
**PFHxDA**



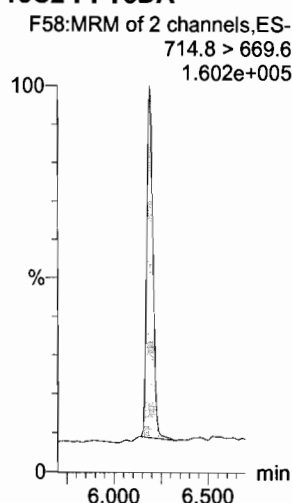
**13C2-PFDoA**



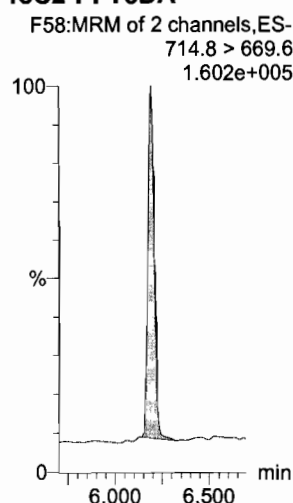
**d3-N-MeFOSA**



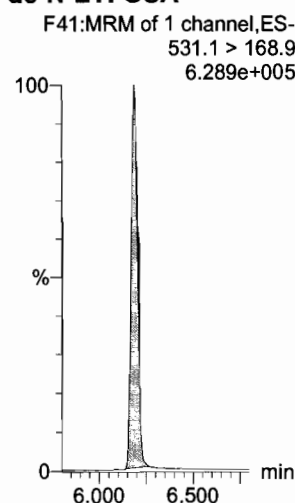
**13C2-PFTeDA**



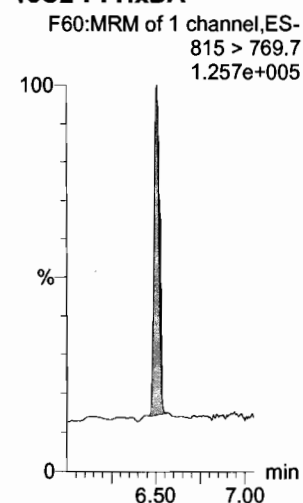
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



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

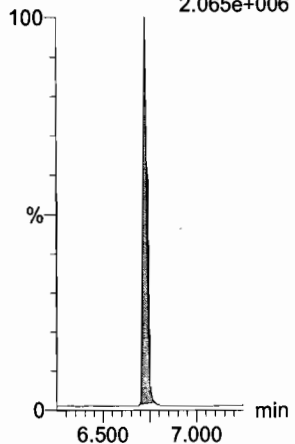
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_9, Date: 23-Dec-2017, Time: 14:26:30, ID: ST171223M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

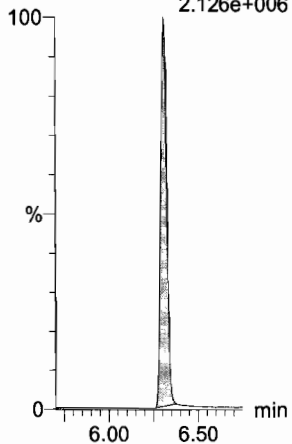
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
2.065e+006



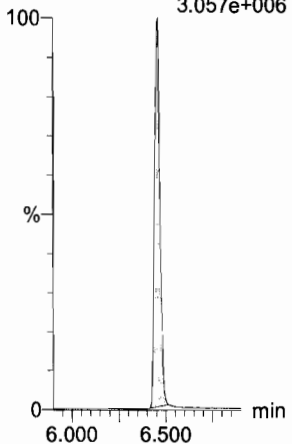
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.126e+006



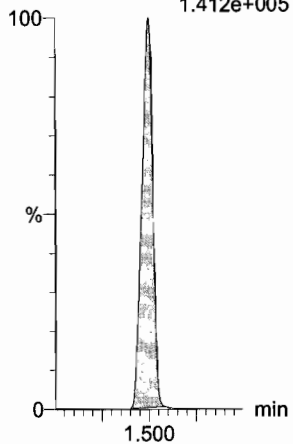
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.057e+006



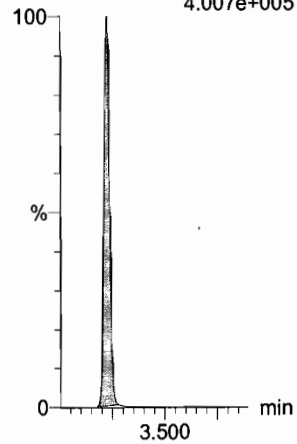
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.412e+005



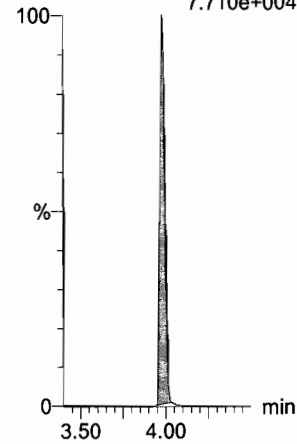
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.007e+005



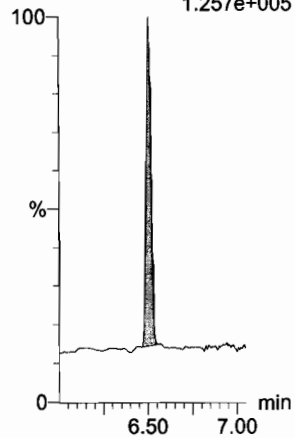
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.710e+004



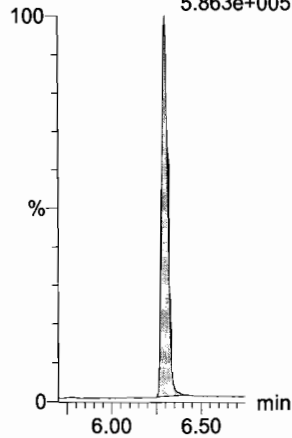
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.257e+005



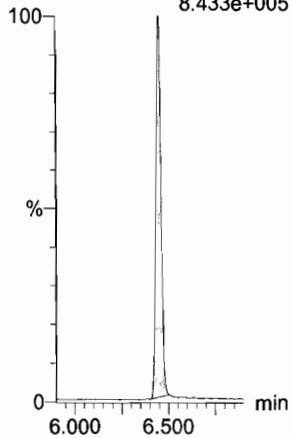
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
5.863e+005



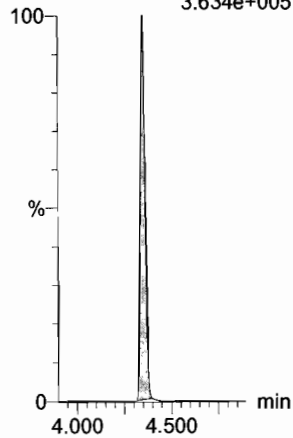
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
8.433e+005



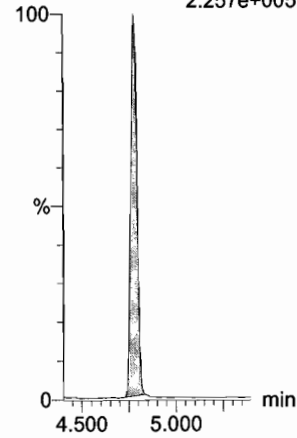
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
3.634e+005



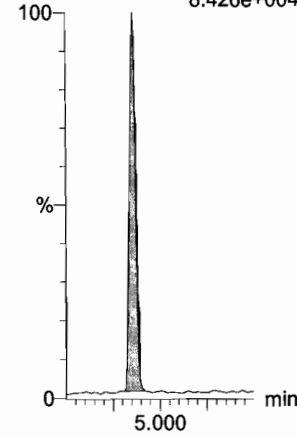
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.257e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
8.426e+004



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

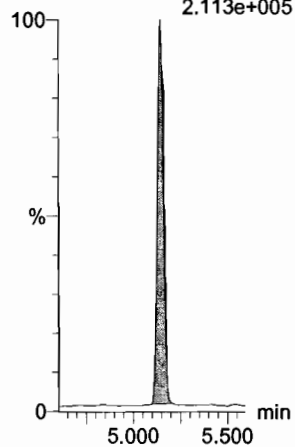
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

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

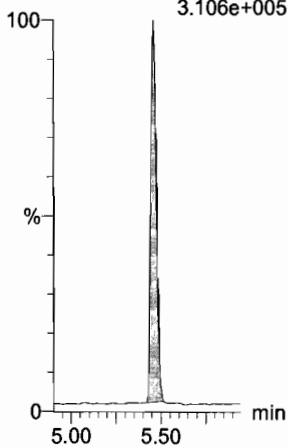
13C6-PFDA

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



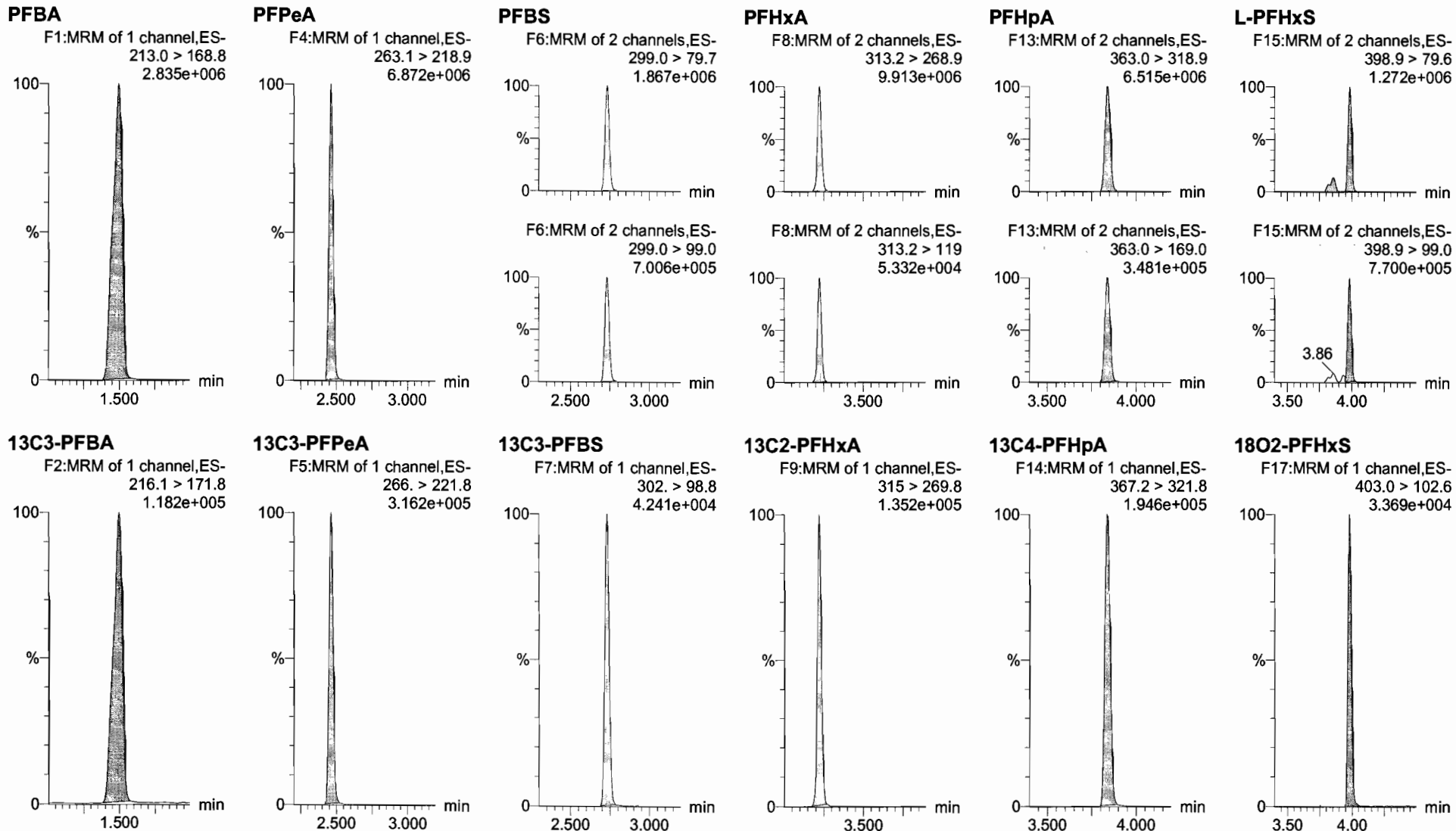


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

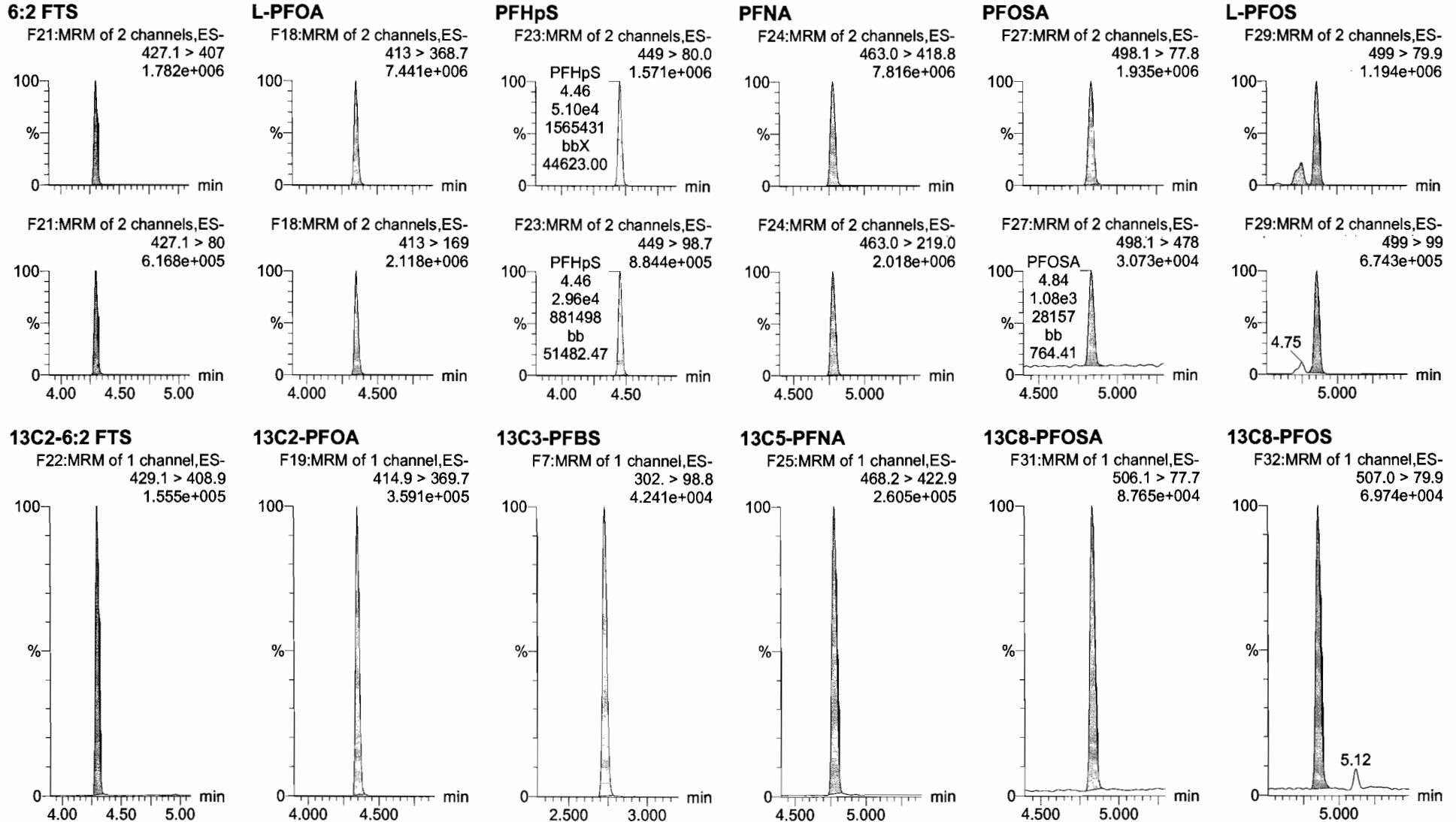
Name: 171223M1\_10, Date: 23-Dec-2017, Time: 14:37:41, ID: ST171223M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803



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

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

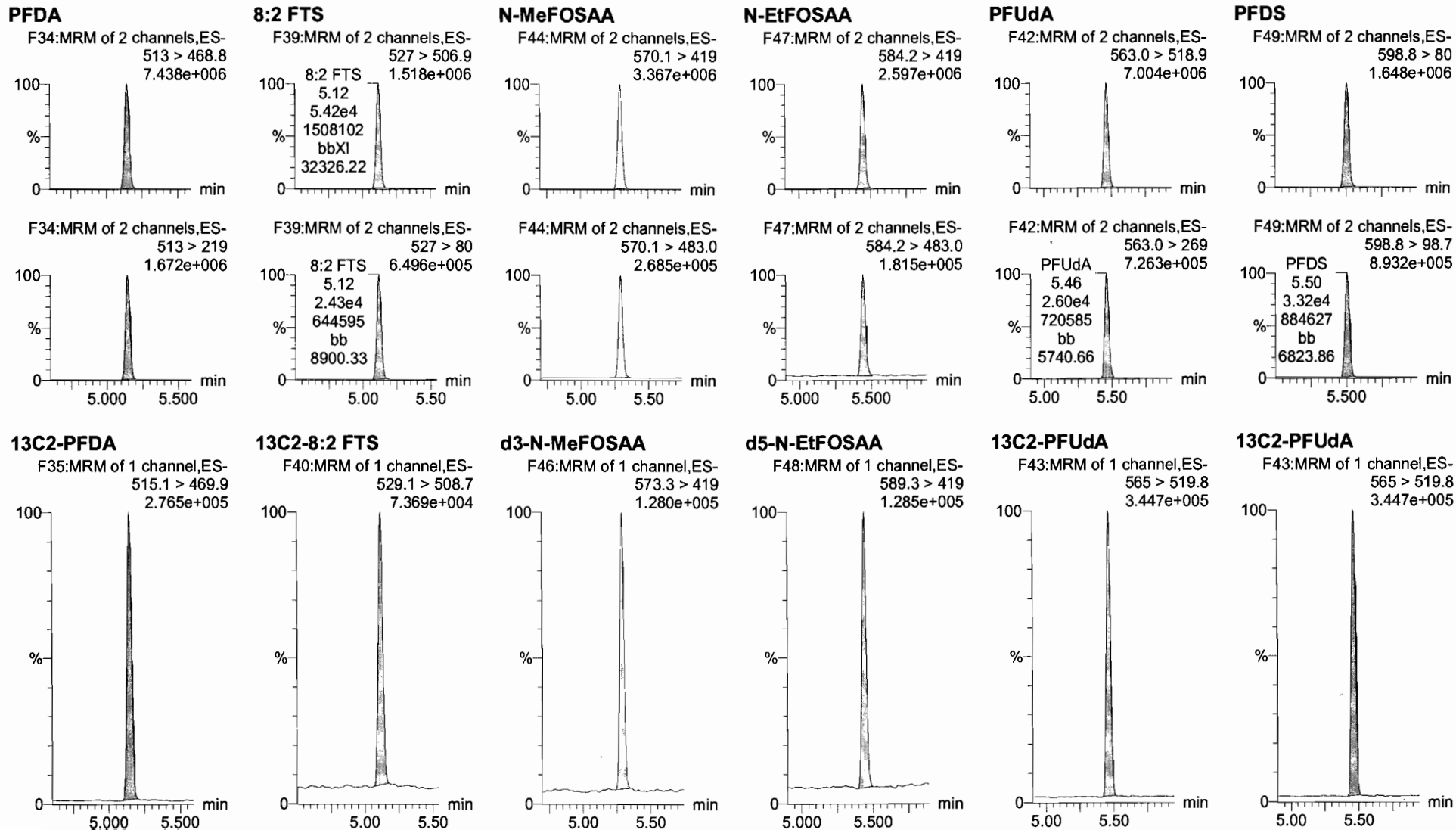


Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

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



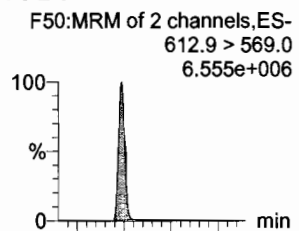
Dataset: U:\Q4.PRO\results\171223M1\171223M1-CRV.qld

Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

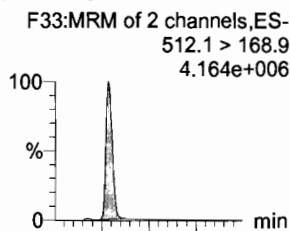
Printed: Tuesday, December 26, 2017 11:39:56 Pacific Standard Time

Name: 171223M1\_10, Date: 23-Dec-2017, Time: 14:37:41, ID: ST171223M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803

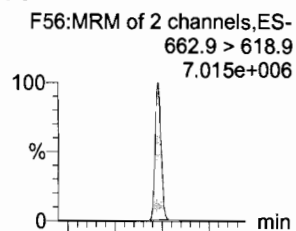
**PFDoA**



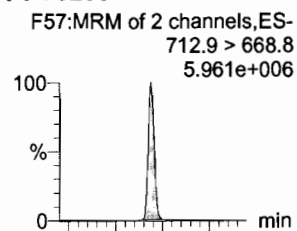
**N-MeFOSA**



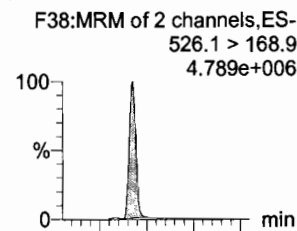
**PFTrDA**



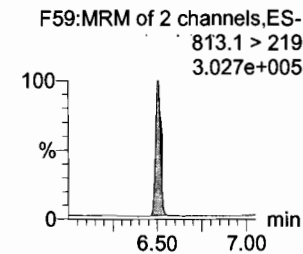
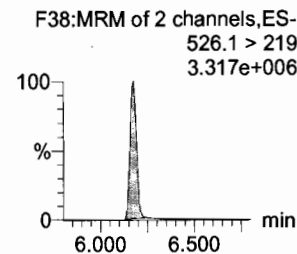
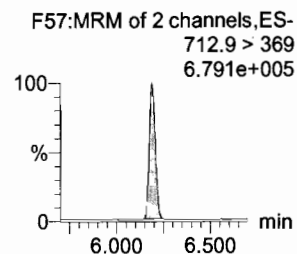
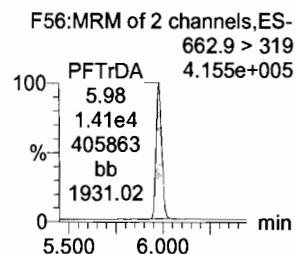
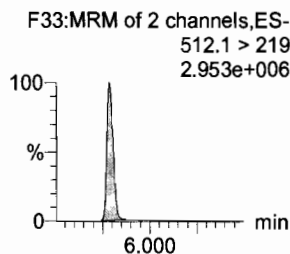
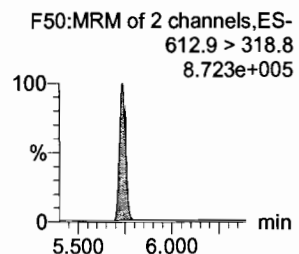
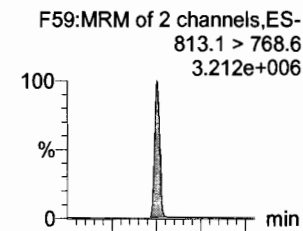
**PFTeDA**



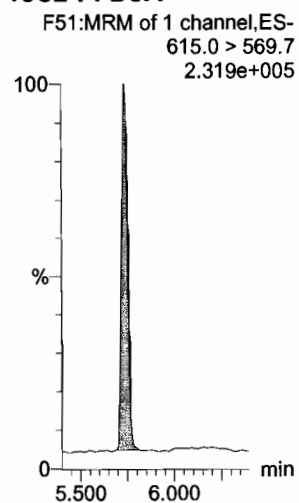
**N-EtFOSA**



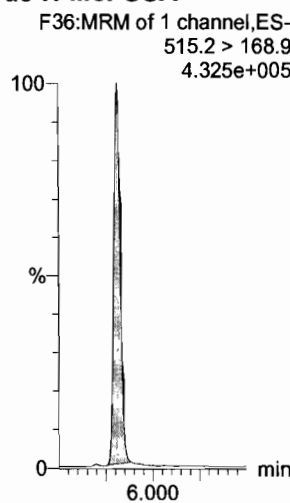
**PFHxDA**



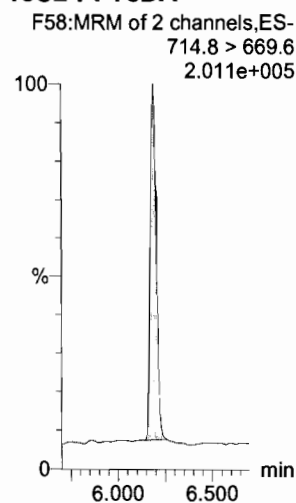
**13C2-PFDoA**



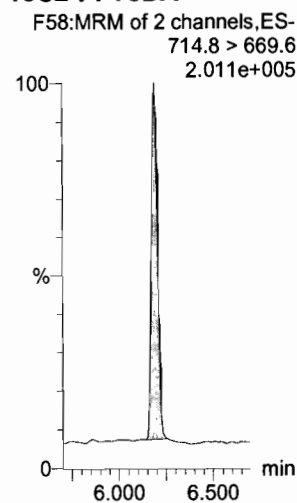
**d3-N-MeFOSA**



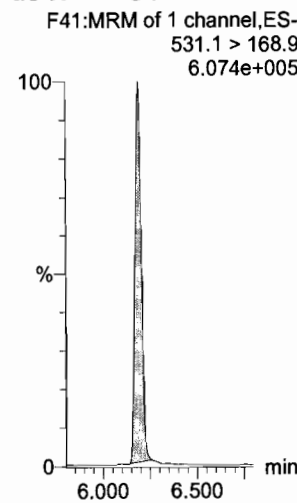
**13C2-PFTeDA**



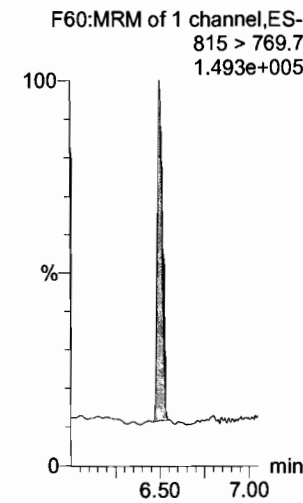
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



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

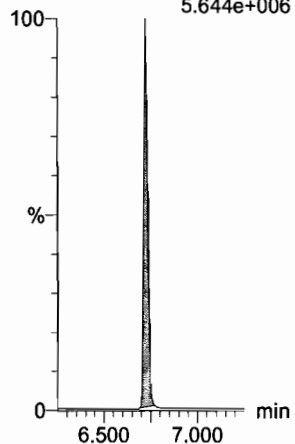
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

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

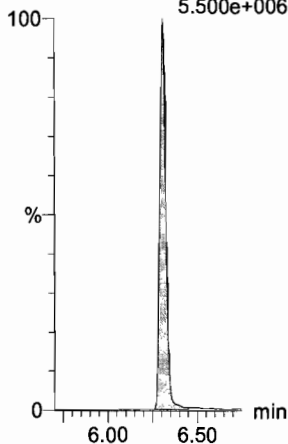
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
5.644e+006



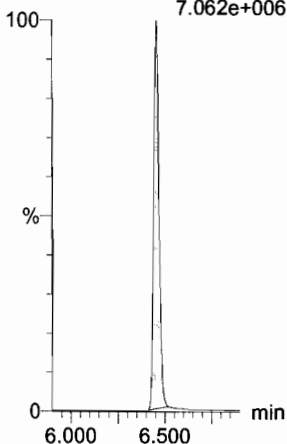
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
5.500e+006



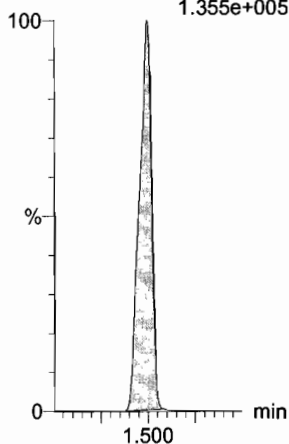
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
7.062e+006



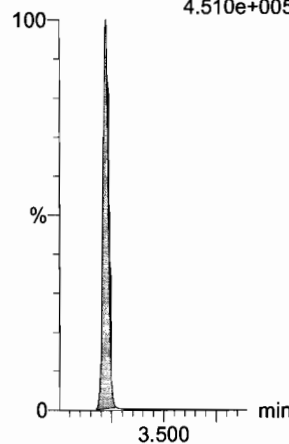
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.355e+005



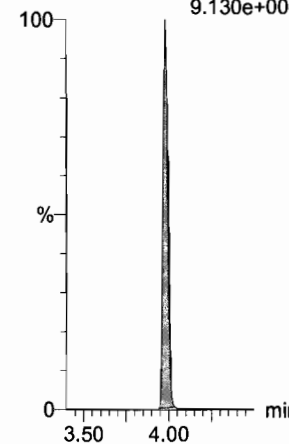
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.510e+005



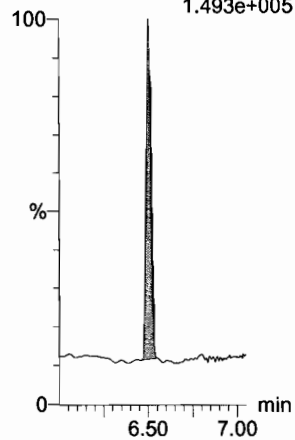
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
9.130e+004



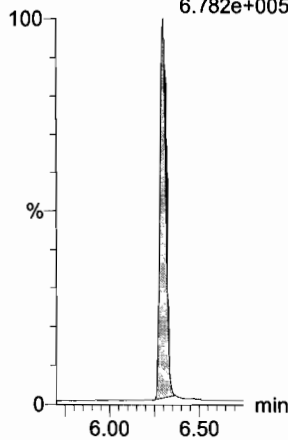
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.493e+005



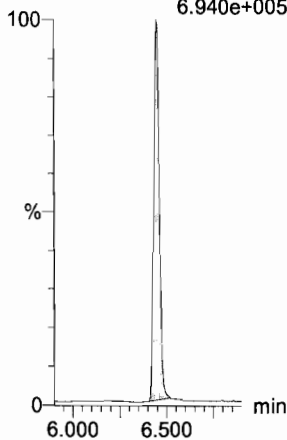
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
6.782e+005



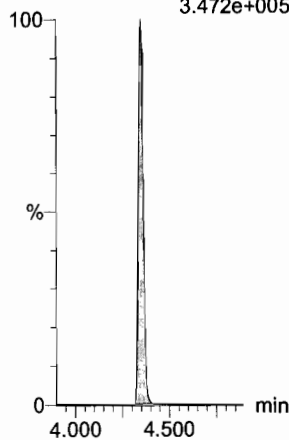
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
6.940e+005



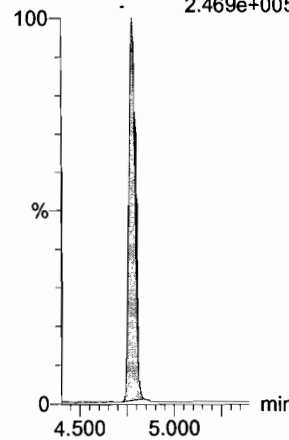
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
3.472e+005



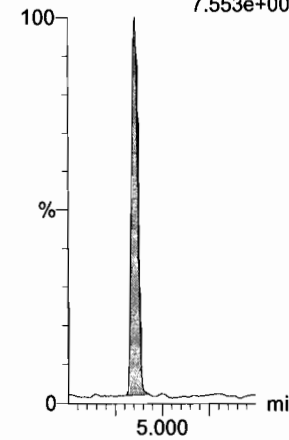
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.469e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
7.553e+004



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

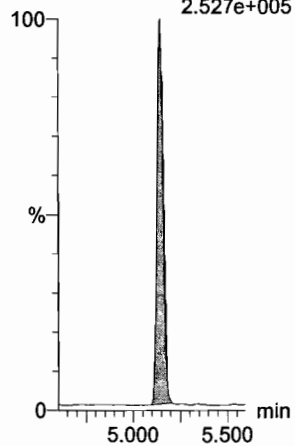
Last Altered: Tuesday, December 26, 2017 11:31:17 Pacific Standard Time

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

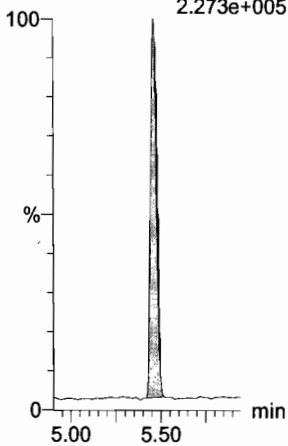
**13C6-PFDA**

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

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

AC  
12/26/17

JJA  
12/26/2017

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

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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

#	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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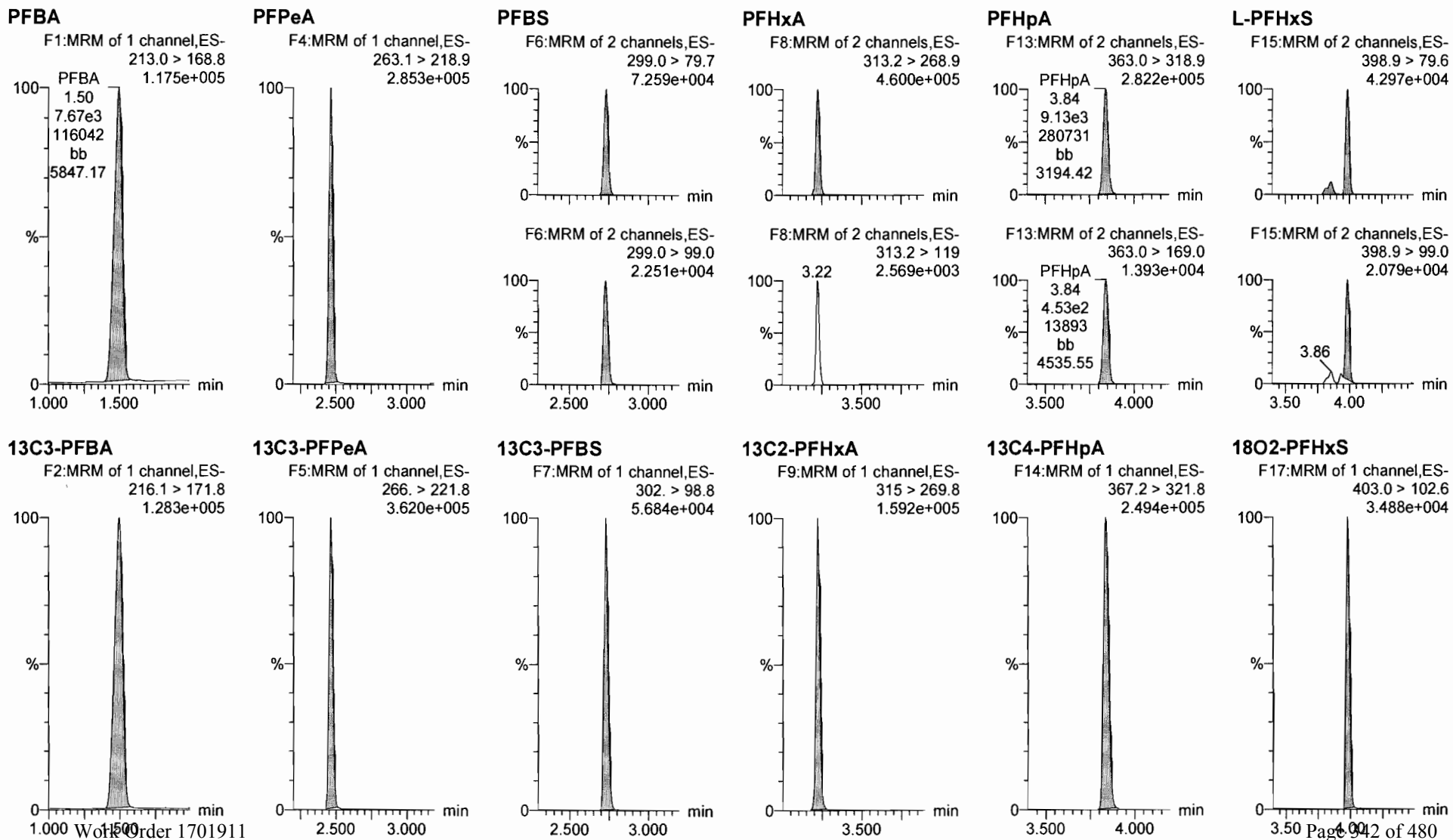


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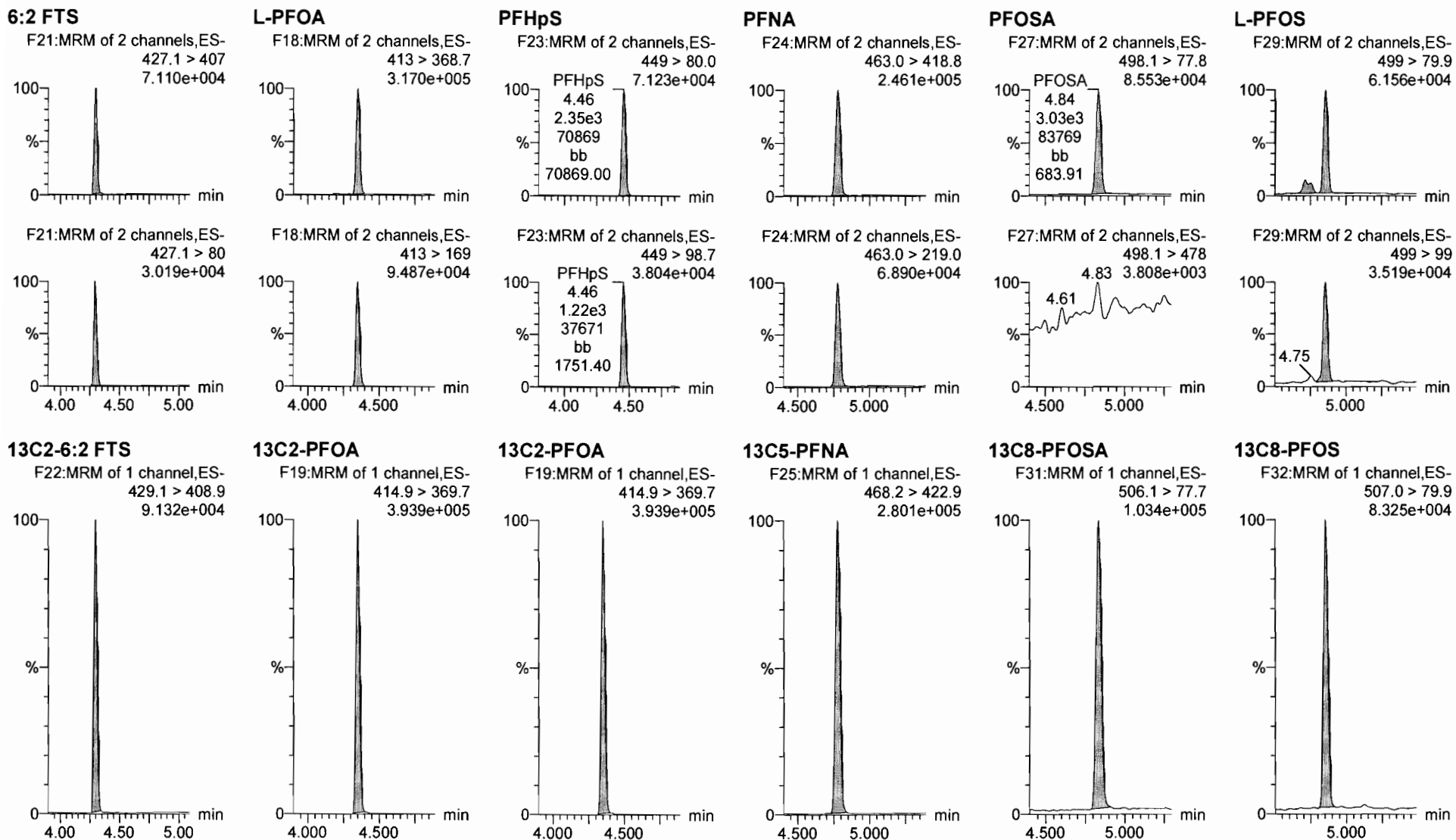
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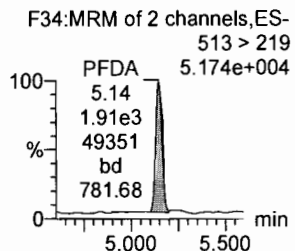
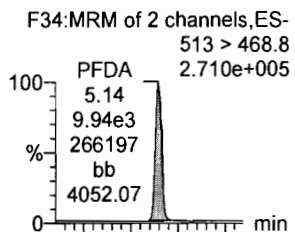


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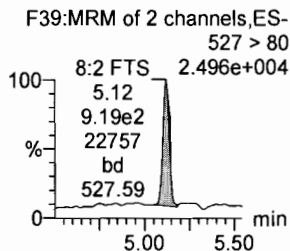
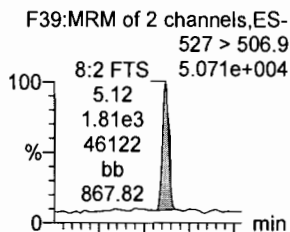
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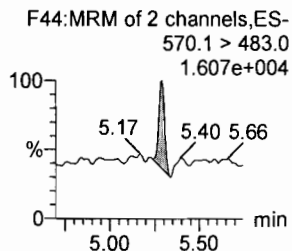
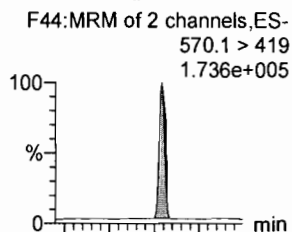
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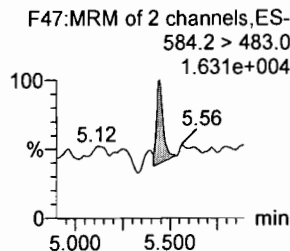
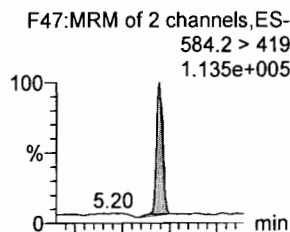
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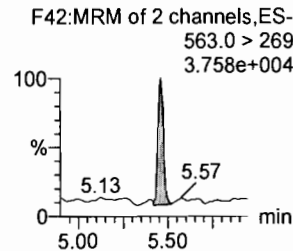
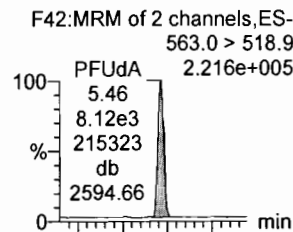
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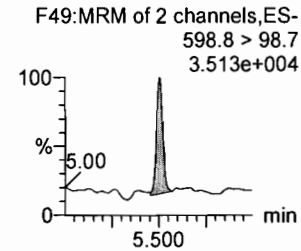
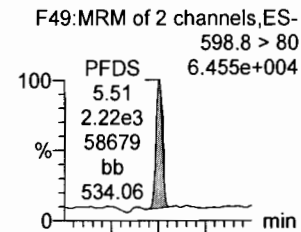
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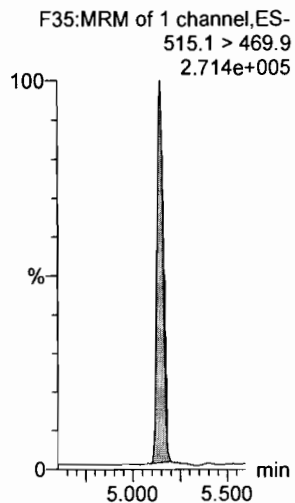
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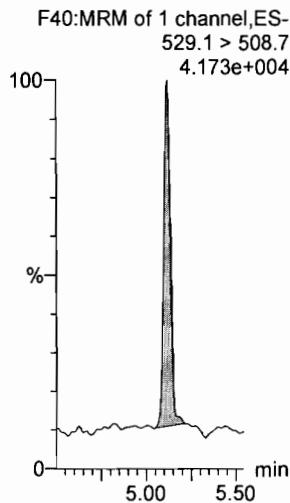
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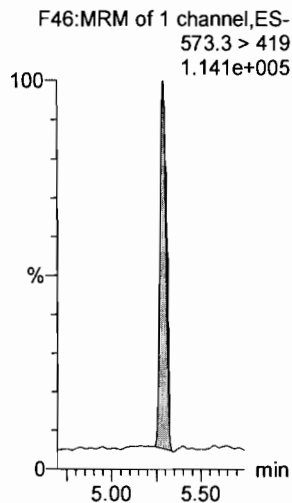
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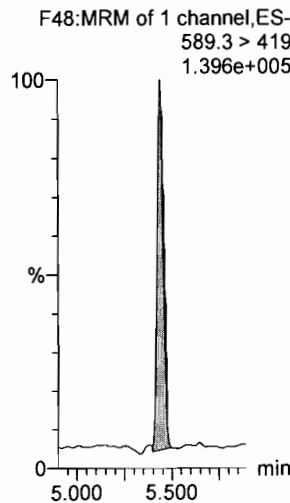
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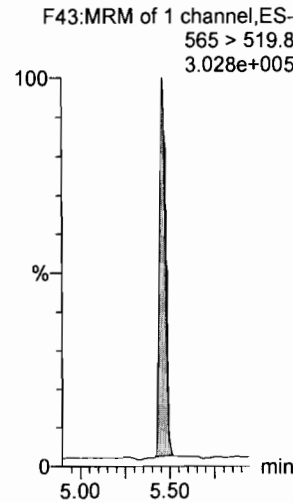
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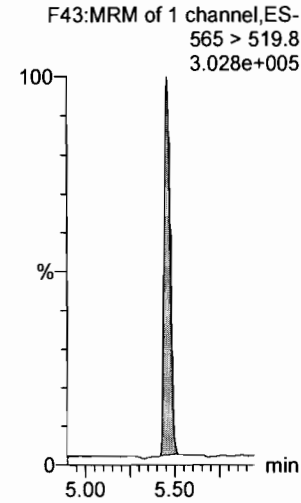
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**13C2-PFUdA**



**13C2-PFUdA**



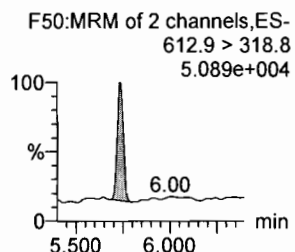
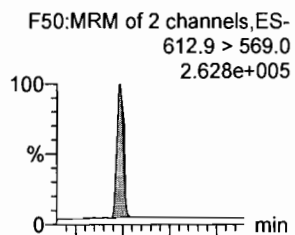
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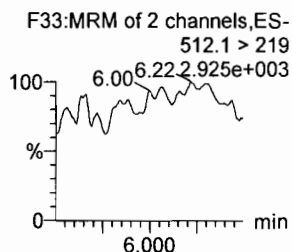
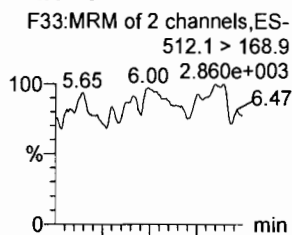
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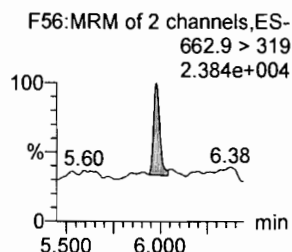
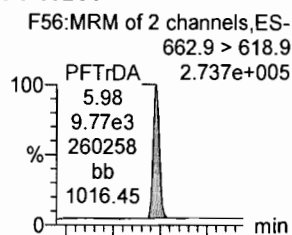
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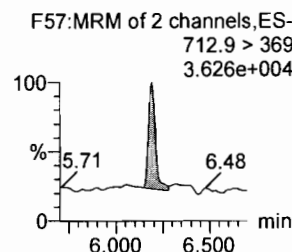
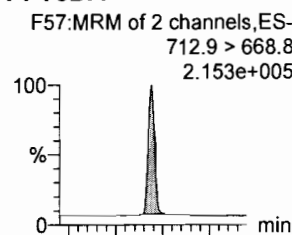
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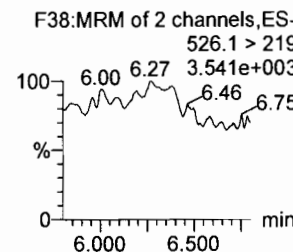
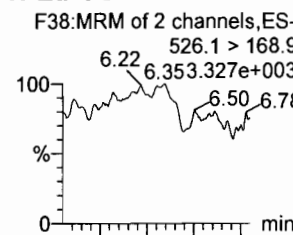
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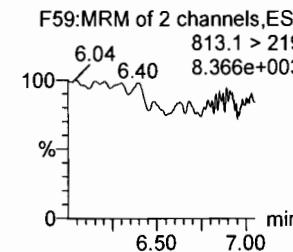
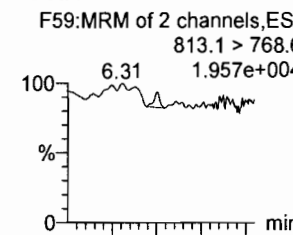
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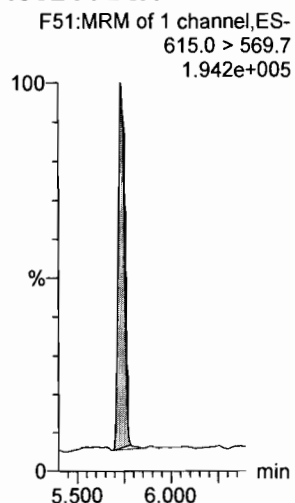
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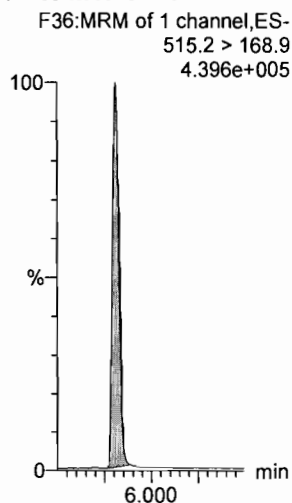
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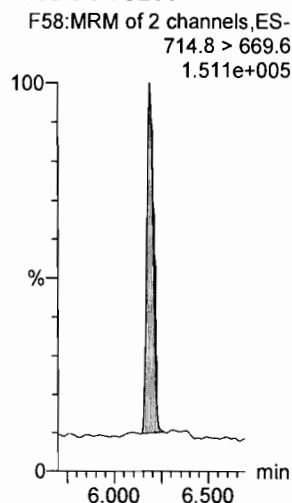
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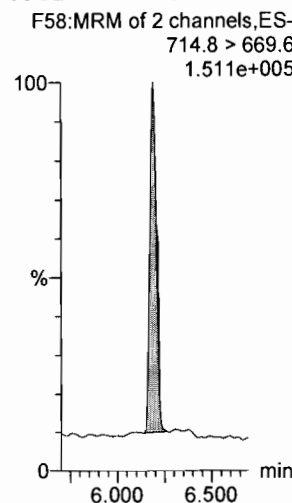
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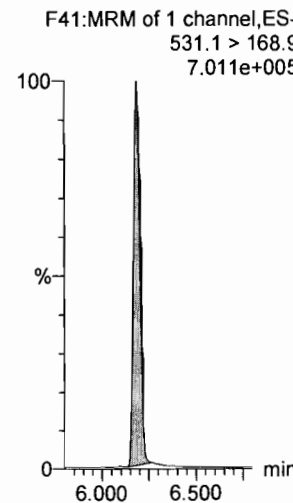
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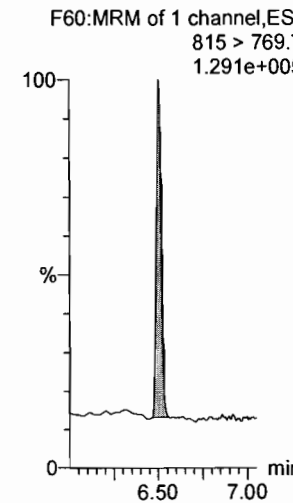
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**d5-N-ETFOSA**



**13C2-PFHxDA**



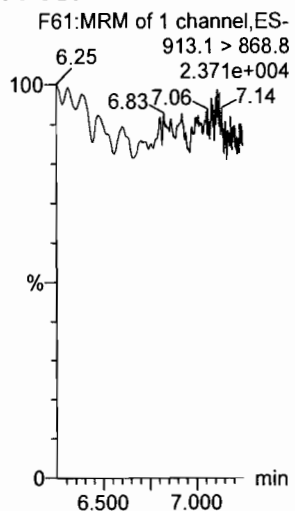
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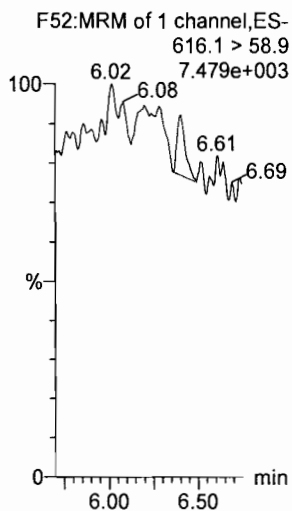
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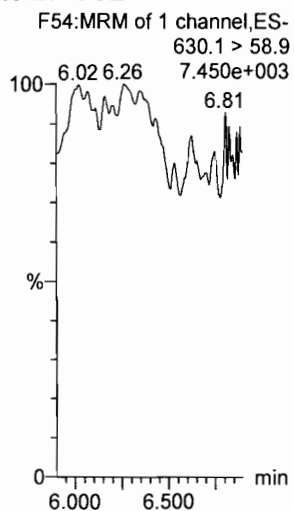
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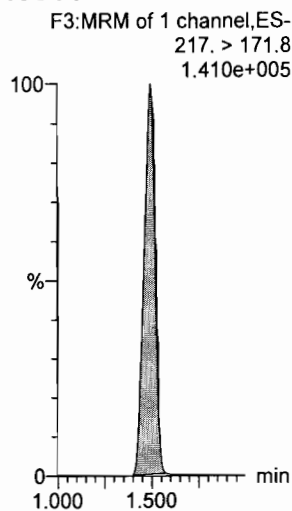
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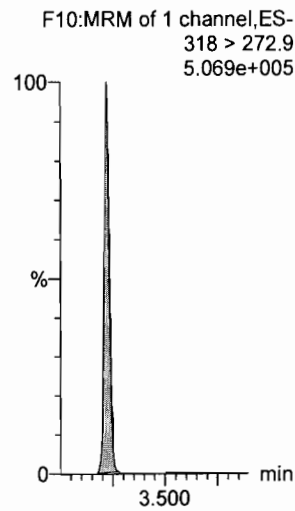
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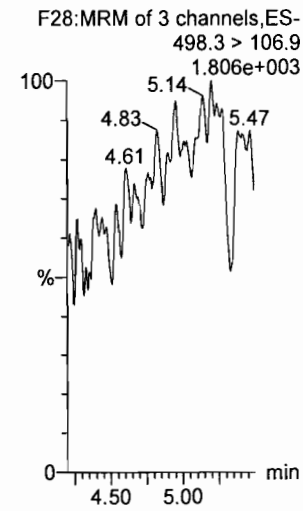
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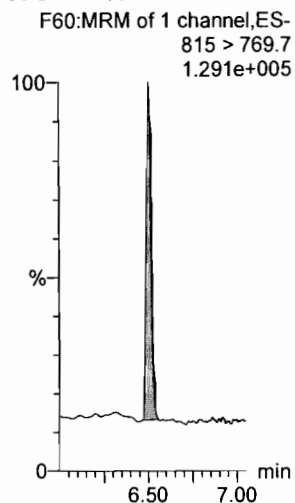
**13C5-PFHxA**



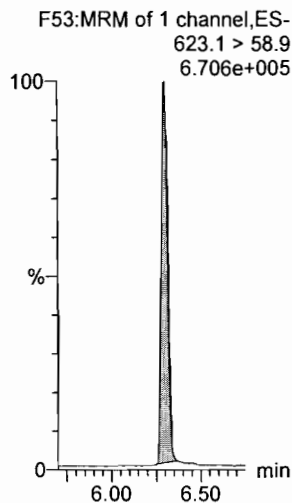
**TCDA**



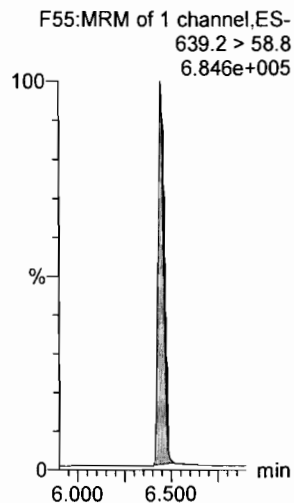
**13C2-PFHxDa**



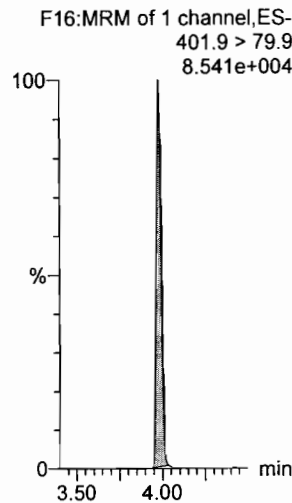
**d7-N-MeFOSE**



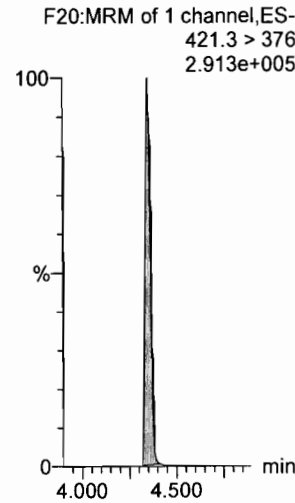
**d9-N-EtFOSE**



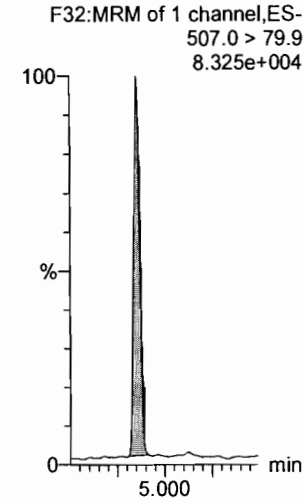
**13C3-PFHxS**



**13C8-PFOA**



**13C8-PFOS**



Dataset: U:\Q4.PRO\results\171223M1\171223M1-13.qld

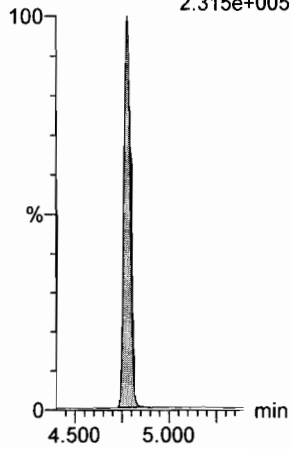
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Printed: Tuesday, December 26, 2017 12:09:42 Pacific Standard Time

Name: 171223M1\_13, Date: 23-Dec-2017, Time: 15:11:13, ID: ICV171223M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

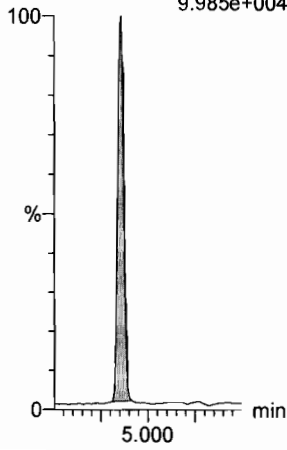
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.315e+005



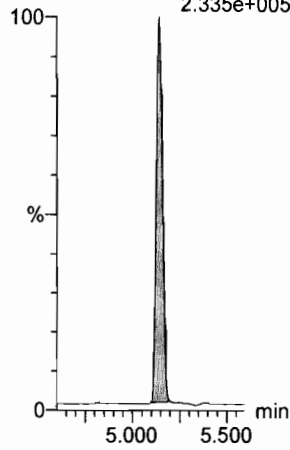
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
9.985e+004



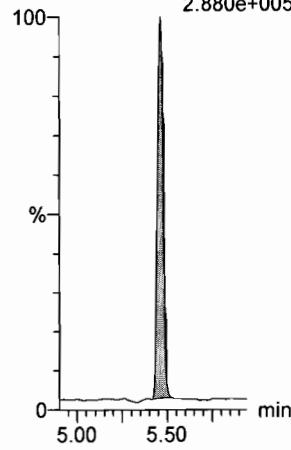
**13C6-PFDA**

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



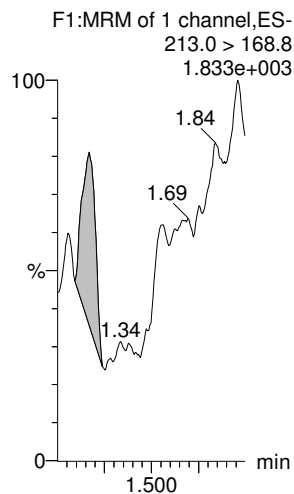
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Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

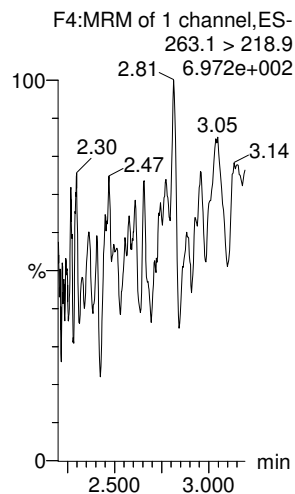
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Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-23-17\_NEWIS.cdb 26 Dec 2017 11:59:16

Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

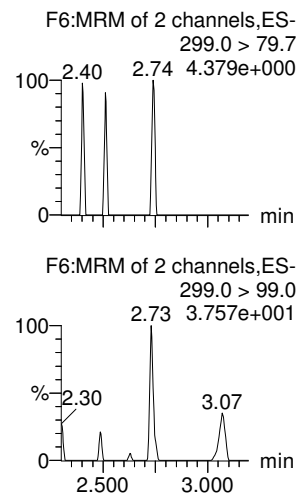
**PFBA**



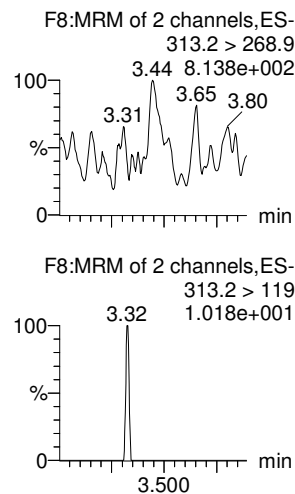
**PFPeA**



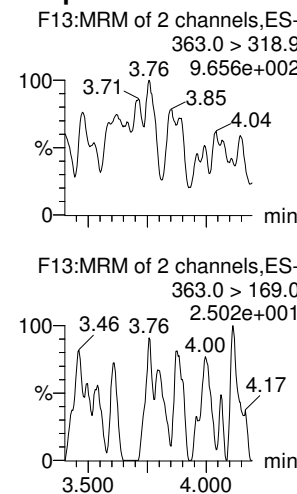
**PFBS**



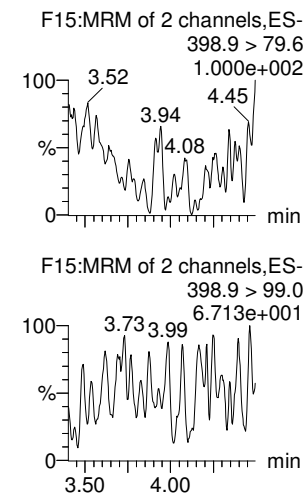
**PFHxA**



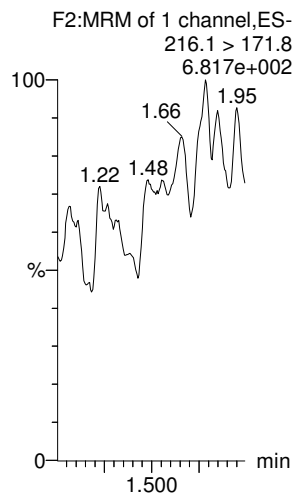
**PFHpA**



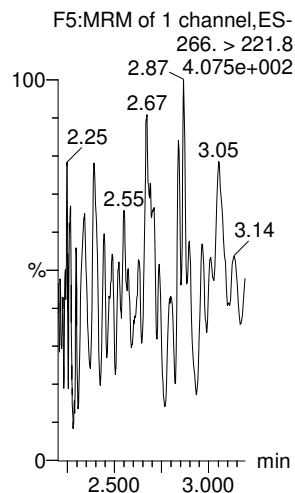
**L-PFHxS**



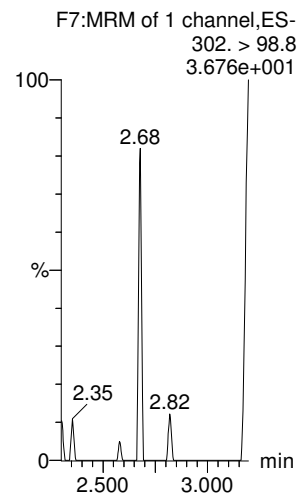
**13C3-PFBA**



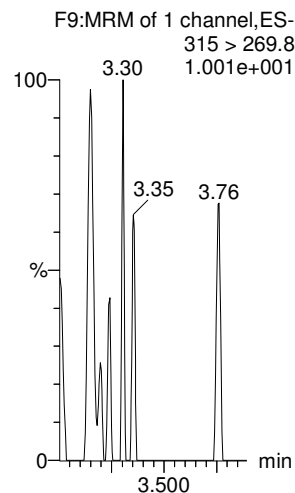
**13C3-PFPeA**



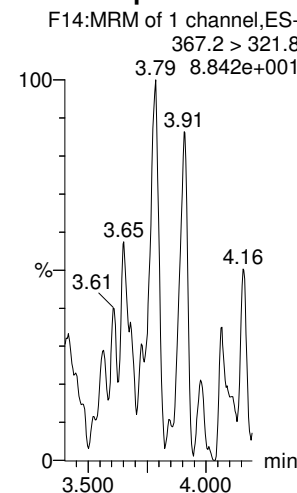
**13C3-PFBS**



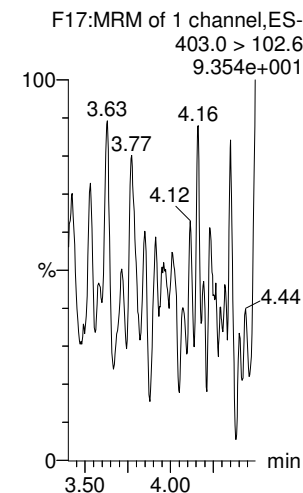
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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

Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

**6:2 FTS**

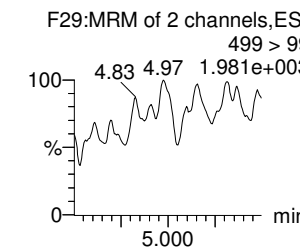
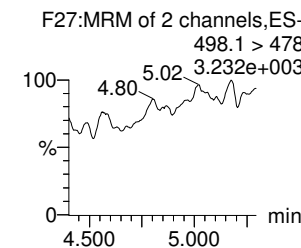
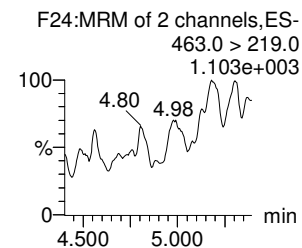
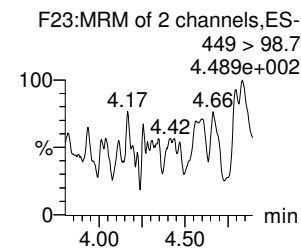
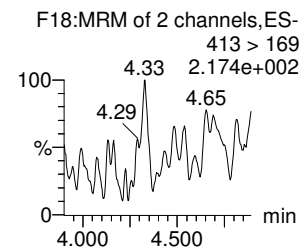
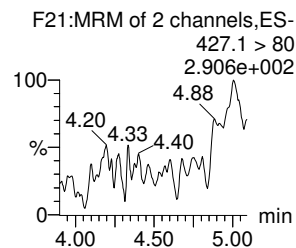
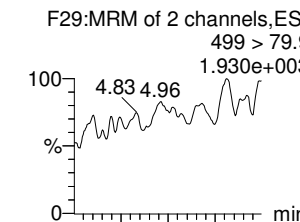
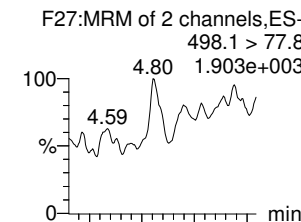
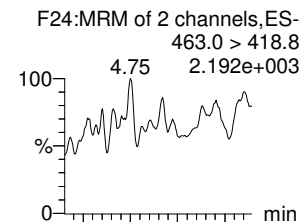
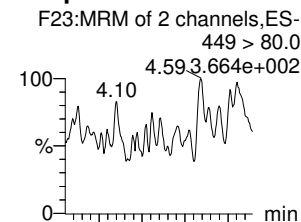
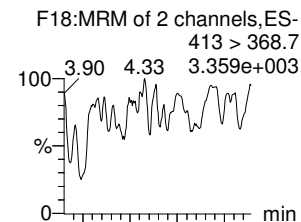
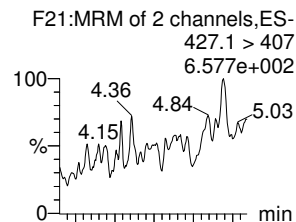
**L-PFOA**

**PFHpS**

**PFNA**

**PFOSA**

**L-PFOS**



**13C2-6:2 FTS**

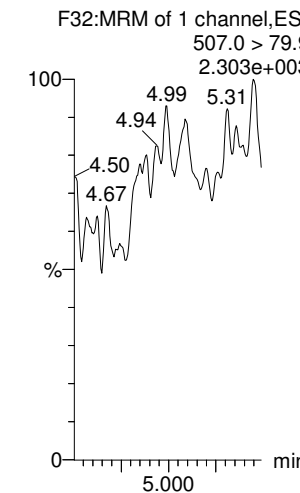
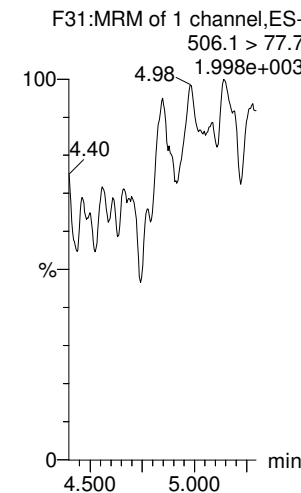
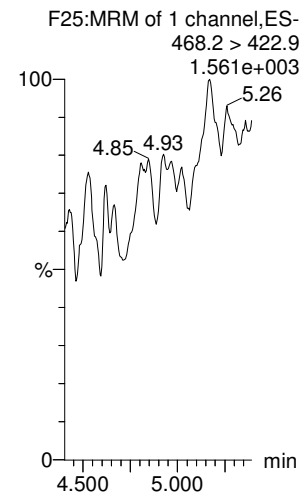
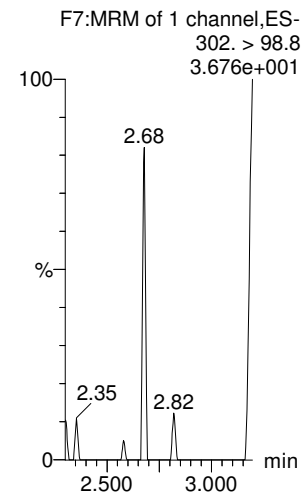
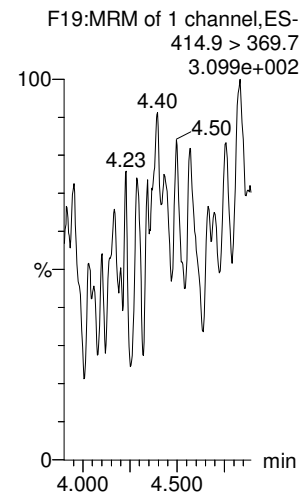
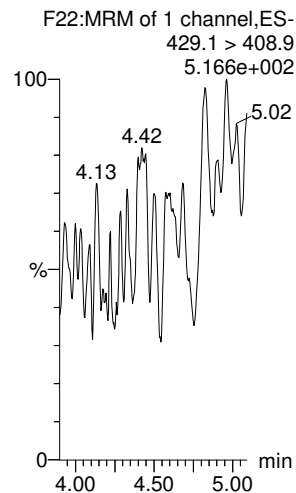
**13C2-PFOA**

**13C3-PFBS**

**13C5-PFNA**

**13C8-PFOA**

**13C8-PFOS**



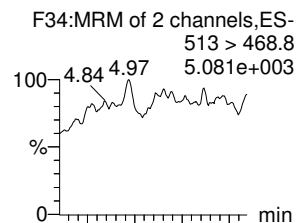


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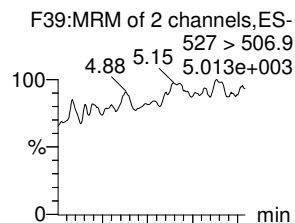
Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

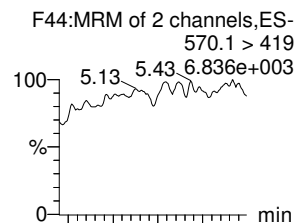
**PFDA**



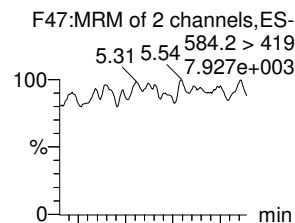
**8:2 FTS**



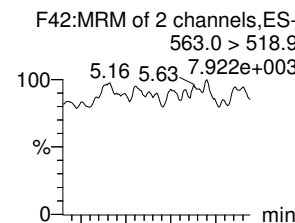
**N-MeFOSAA**



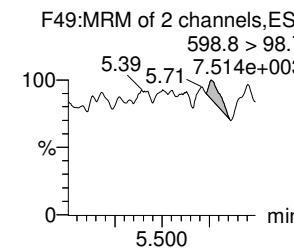
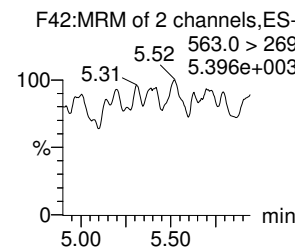
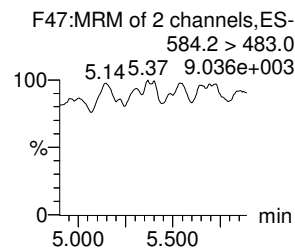
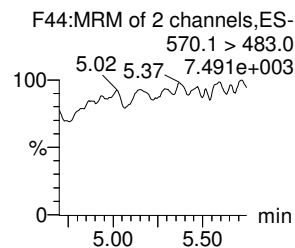
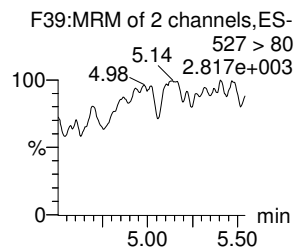
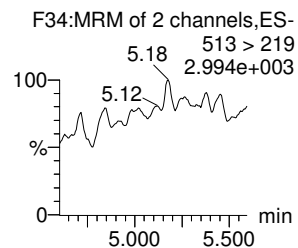
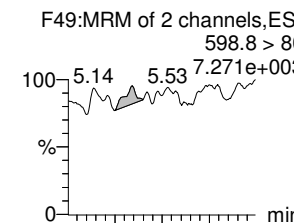
**N-EtFOSAA**



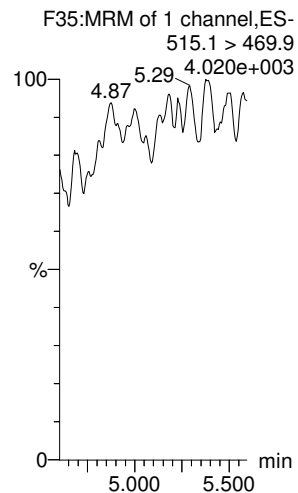
**PFUdA**



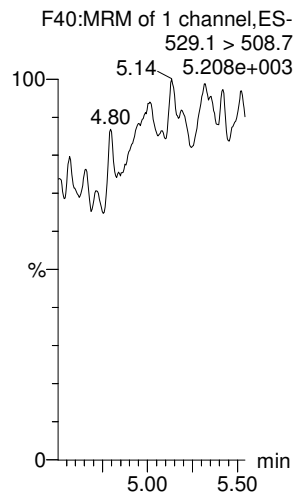
**PFDS**



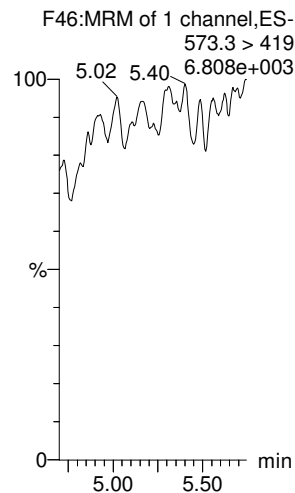
**13C2-PFDA**



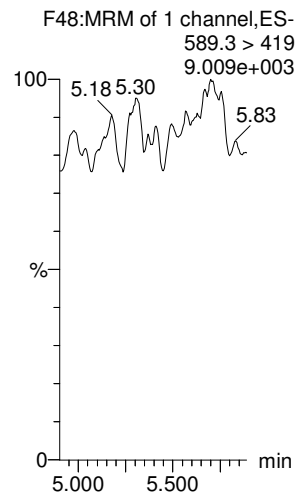
**13C2-8:2 FTS**



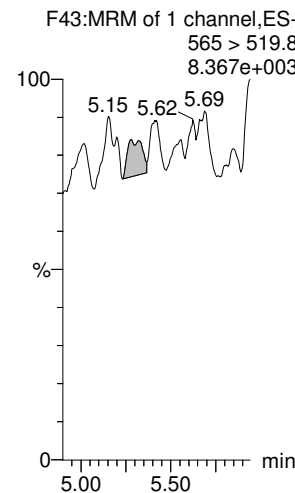
**d3-N-MeFOSAA**



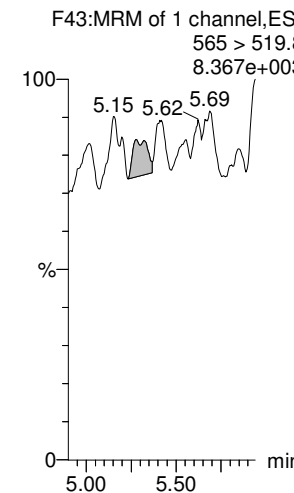
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



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

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Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

**PFDoA**

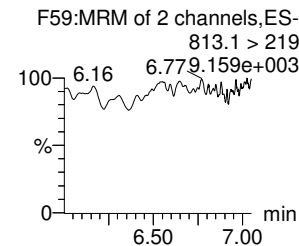
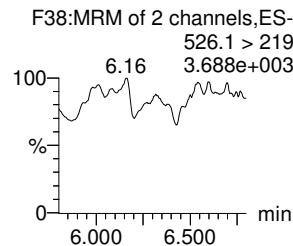
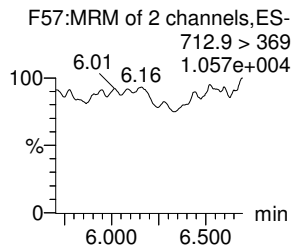
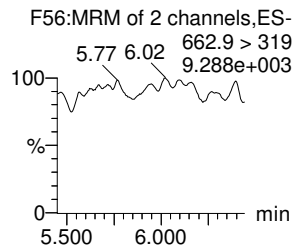
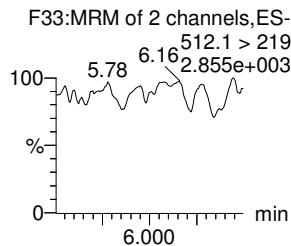
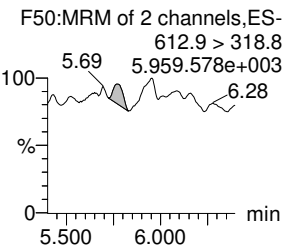
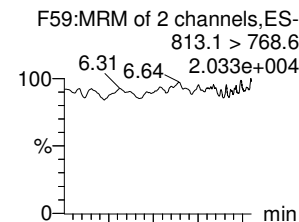
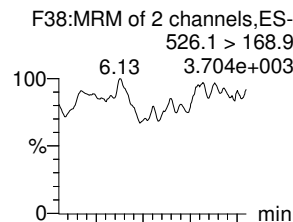
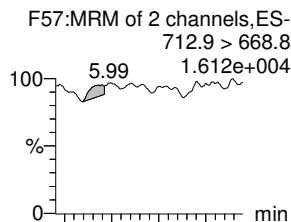
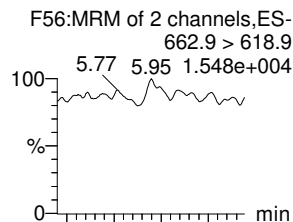
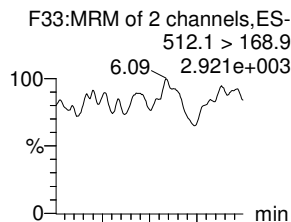
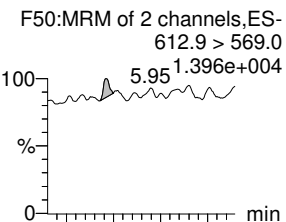
**N-MeFOSA**

**PFTrDA**

**PFTeDA**

**N-EtFOSA**

**PFHxDA**



**13C2-PFDoA**

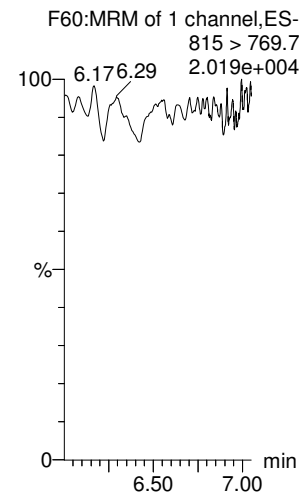
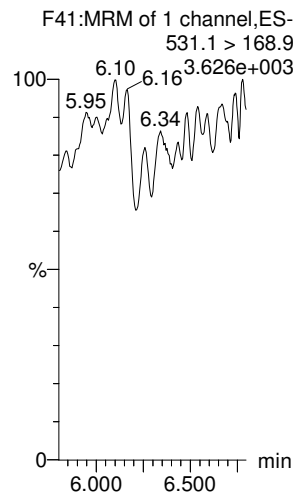
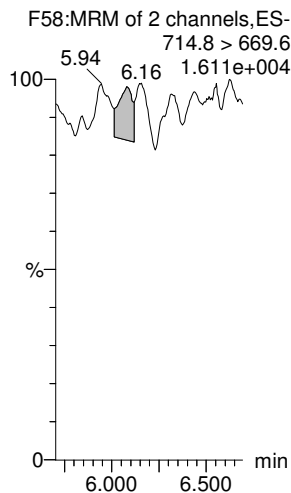
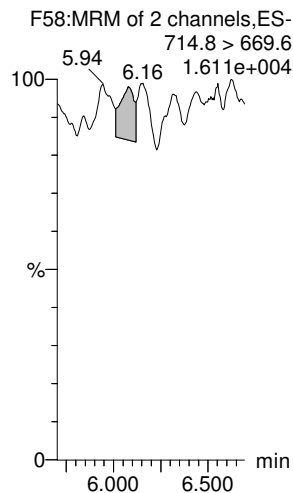
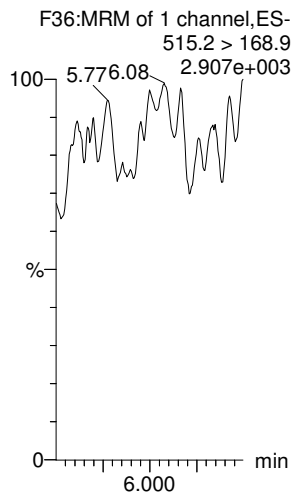
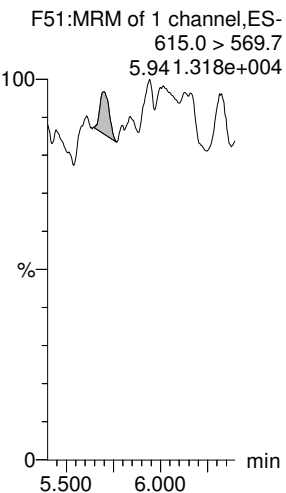
**d3-N-MeFOSA**

**13C2-PFTeDA**

**13C2-PFTeDA**

**d5-N-ETFOSA**

**13C2-PFHxDA**

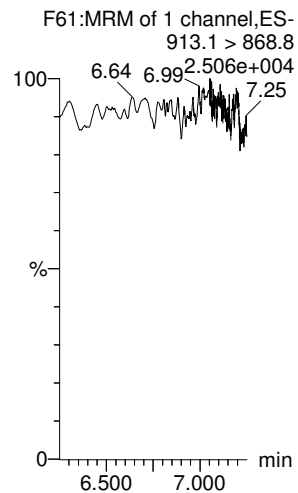


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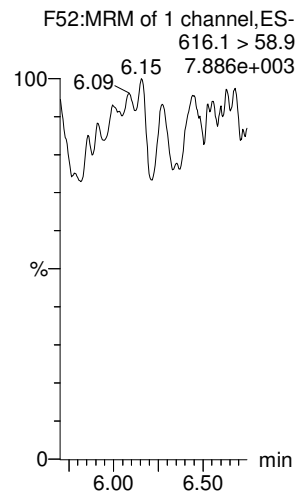
Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

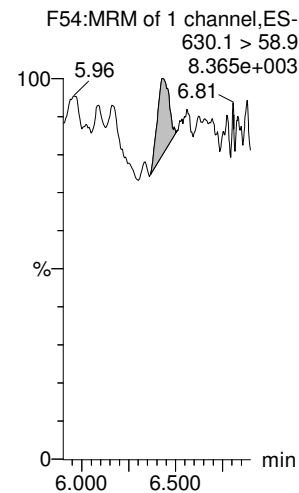
**PFODA**



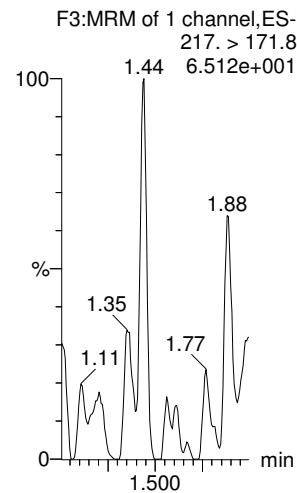
**N-MeFOSE**



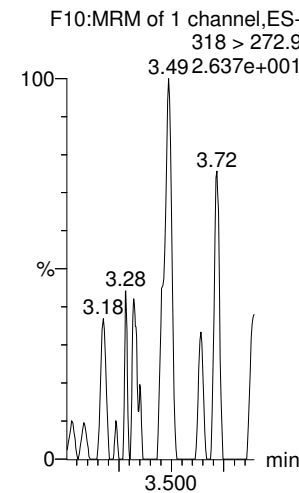
**N-EtFOSE**



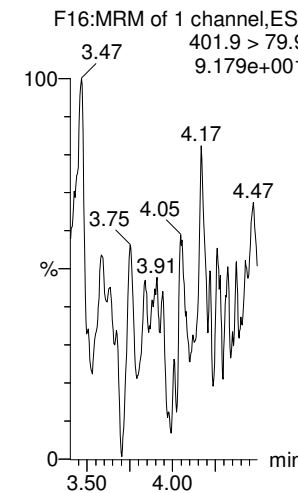
**13C4-PFBA**



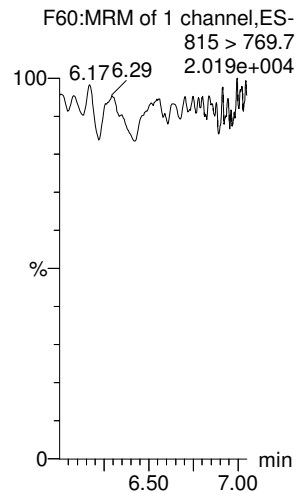
**13C5-PFHxA**



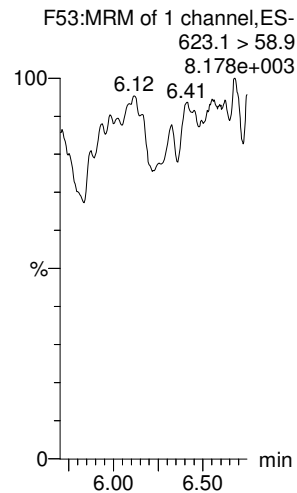
**13C3-PFHxS**



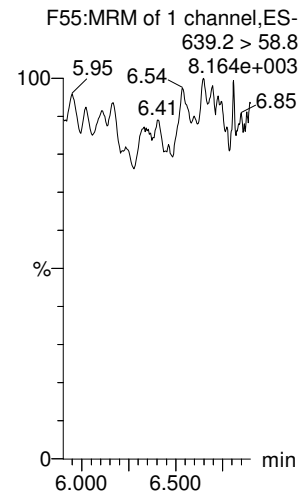
**13C2-PFHxDA**



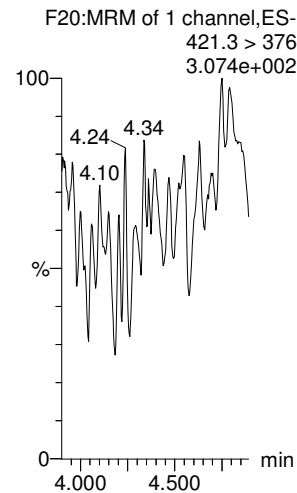
**d7-N-MeFOSE**



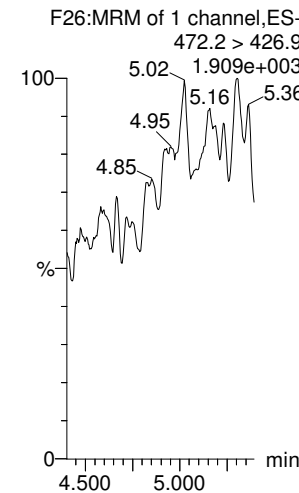
**d9-N-EtFOSE**



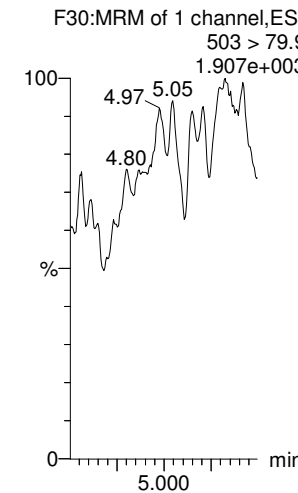
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



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

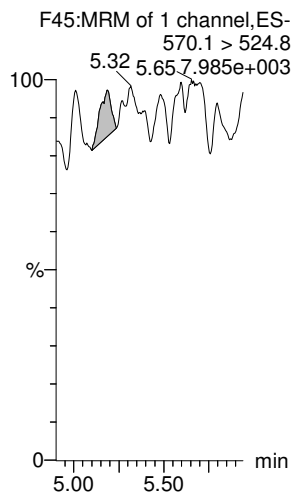
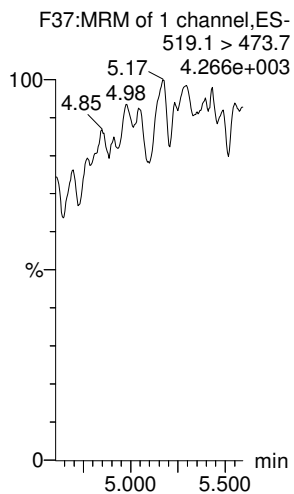
Last Altered: Tuesday, December 26, 2017 13:57:23 Pacific Standard Time

Printed: Tuesday, December 26, 2017 13:57:53 Pacific Standard Time

Name: 171223M1\_12, Date: 23-Dec-2017, Time: 15:00:03, ID: IPA, Description: IPA

13C6-PFDA

13C7-PFUdA



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
 Printed: Thursday, December 28, 2017 11:25:22 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 28 Dec 2017 08:41:53  
 Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

AC  
12/28/17

**Compound name: PFBA**

Correlation coefficient:  $r = 0.999714$ ,  $r^2 = 0.999428$   
 Calibration curve:  $1.41688 * x + -0.0844562$   
 Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area )  
 Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

JHA  
12/28/2017

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171227M2_2	Standard	0.250	1.51	200.855	9109.702	0.276	0.3	1.6	NO	0.999	NO	bb
2	2 171227M2_3	Standard	0.500	1.52	411.571	8940.615	0.575	0.5	-6.9	NO	0.999	NO	bb
3	3 171227M2_4	Standard	1.000	1.51	913.939	9244.819	1.236	0.9	-6.8	NO	0.999	NO	bb
4	4 171227M2_5	Standard	2.000	1.52	1922.570	9637.834	2.494	1.8	-9.0	NO	0.999	NO	bb
5	5 171227M2_6	Standard	5.000	1.52	5080.765	9386.572	6.766	4.8	-3.3	NO	0.999	NO	bb
6	6 171227M2_7	Standard	10.000	1.52	10629.204	9079.917	14.633	10.4	3.9	NO	0.999	NO	bb
7	7 171227M2_8	Standard	50.000	1.52	52212.934	9406.534	69.384	49.0	-1.9	NO	0.999	NO	bb
8	8 171227M2_9	Standard	100.000	1.52	99463.430	9055.936	137.290	97.0	-3.0	NO	0.999	NO	bb
9	9 171227M2_10	Standard	250.000	1.52	256225.172	8899.062	359.905	254.1	1.6	NO	0.999	NO	bb

**Compound name: PFPeA**

Correlation coefficient:  $r = 0.999071$ ,  $r^2 = 0.998143$   
 Calibration curve:  $1.17898 * x + -0.0138581$   
 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	1 171227M2_2	Standard	0.250	2.47	226.939	10138.515	0.280	0.2	-0.4	NO	0.998	NO	bb
2	2 171227M2_3	Standard	0.500	2.47	441.227	10123.872	0.545	0.5	-5.2	NO	0.998	NO	bb
3	3 171227M2_4	Standard	1.000	2.47	890.896	9829.790	1.133	1.0	-2.7	NO	0.998	NO	bb
4	4 171227M2_5	Standard	2.000	2.47	1807.953	10132.158	2.230	1.9	-4.8	NO	0.998	NO	bd
5	5 171227M2_6	Standard	5.000	2.47	5259.210	10246.948	6.416	5.5	9.1	NO	0.998	NO	bb
6	6 171227M2_7	Standard	10.000	2.47	9010.288	9841.680	11.444	9.7	-2.8	NO	0.998	NO	bb
7	7 171227M2_8	Standard	50.000	2.48	49878.492	9541.606	65.343	55.4	10.9	NO	0.998	NO	bb
8	8 171227M2_9	Standard	100.000	2.47	90618.992	9903.929	114.373	97.0	-3.0	NO	0.998	NO	bb
9	9 171227M2_10	Standard	250.000	2.48	226345.406	9695.774	291.809	247.5	-1.0	NO	0.998	NO	bb

Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

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**Compound name: PFBS**

Correlation coefficient:  $r = 0.996361$ ,  $r^2 = 0.992735$

Calibration curve:  $2.42453 * x + -0.525381$

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 171227M2_2	Standard	0.250	2.74	59.858	1310.046	0.571	0.5	80.9	NO	0.993	NO	MMX
2	2 171227M2_3	Standard	0.500	2.74	106.140	1399.401	0.948	0.6	21.5	NO	0.993	NO	bb
3	3 171227M2_4	Standard	1.000	2.74	174.071	1499.687	1.451	0.8	-18.5	NO	0.993	NO	bb
4	4 171227M2_5	Standard	2.000	2.74	439.490	1333.655	4.119	1.9	-4.2	NO	0.993	NO	bb
5	5 171227M2_6	Standard	5.000	2.74	1121.018	1292.882	10.838	4.7	-6.3	NO	0.993	NO	bb
6	6 171227M2_7	Standard	10.000	2.74	2532.465	1368.757	23.127	9.8	-2.4	NO	0.993	NO	bd
7	7 171227M2_8	Standard	50.000	2.75	13093.902	1339.128	122.224	50.6	1.3	NO	0.993	NO	bb
8	8 171227M2_9	Standard	100.000	2.74	25473.293	1151.352	276.558	114.3	14.3	NO	0.993	NO	bd
9	9 171227M2_10	Standard	250.000	2.74	65284.344	1428.674	571.197	235.8	-5.7	NO	0.993	NO	bb

**Compound name: PFHxA**

Coefficient of Determination:  $R^2 = 0.994958$

Calibration curve:  $-0.00634236 * x^2 + 2.1363 * x + -0.390389$

Response type: Internal Std ( Ref 34 ), 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 171227M2_2	Standard	0.250	3.24	232.680	3269.867	0.356	0.3	39.9	NO	0.995	NO	bbX
2	2 171227M2_3	Standard	0.500	3.23	504.518	3115.723	0.810	0.6	12.5	NO	0.995	NO	bb
3	3 171227M2_4	Standard	1.000	3.23	855.336	3457.569	1.237	0.8	-23.7	NO	0.995	NO	bb
4	4 171227M2_5	Standard	2.000	3.23	2097.619	3128.971	3.352	1.8	-12.0	NO	0.995	NO	bb
5	5 171227M2_6	Standard	5.000	3.23	5625.306	3174.698	8.860	4.4	-12.3	NO	0.995	NO	bd
6	6 171227M2_7	Standard	10.000	3.23	12275.598	3240.993	18.938	9.3	-7.0	NO	0.995	NO	bd
7	7 171227M2_8	Standard	50.000	3.23	60930.879	3133.422	97.227	54.5	9.0	NO	0.995	NO	bb
8	8 171227M2_9	Standard	100.000	3.23	99186.602	3380.480	146.705	96.5	-3.5	NO	0.995	NO	bd
9	9 171227M2_10	Standard	250.000	3.23	300766.344	2893.191	519.783			NO	0.995	YES	MMXI

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**Compound name: PFHpA**

Correlation coefficient:  $r = 0.999445$ ,  $r^2 = 0.998890$

Calibration curve:  $1.64689 * x + -0.0913929$

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 171227M2_2	Standard	0.250	3.84	283.627	8496.508	0.417	0.3	23.5	NO	0.999	NO	bb
2	2 171227M2_3	Standard	0.500	3.83	599.143	9226.614	0.812	0.5	9.7	NO	0.999	NO	bb
3	3 171227M2_4	Standard	1.000	3.84	1030.449	8782.837	1.467	0.9	-5.4	NO	0.999	NO	bb
4	4 171227M2_5	Standard	2.000	3.84	1995.367	9480.081	2.631	1.7	-17.3	NO	0.999	NO	bb
5	5 171227M2_6	Standard	5.000	3.84	5509.665	8254.716	8.343	5.1	2.4	NO	0.999	NO	bd
6	6 171227M2_7	Standard	10.000	3.84	10947.364	9052.288	15.117	9.2	-7.7	NO	0.999	NO	bb
7	7 171227M2_8	Standard	50.000	3.84	58088.418	9428.651	77.011	46.8	-6.4	NO	0.999	NO	bb
8	8 171227M2_9	Standard	100.000	3.84	119483.109	9154.792	163.143	99.1	-0.9	NO	0.999	NO	bb
9	9 171227M2_10	Standard	250.000	3.84	297770.719	8864.943	419.871	255.0	2.0	NO	0.999	NO	bb

**Compound name: L-PFHxS**

Correlation coefficient:  $r = 0.999319$ ,  $r^2 = 0.998639$

Calibration curve:  $2.13865 * x + -0.0855212$

Response type: Internal Std ( Ref 36 ), 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 171227M2_2	Standard	0.250	3.98	54.171	1383.153	0.490	0.3	7.6	NO	0.999	NO	MM
2	2 171227M2_3	Standard	0.500	3.98	66.982	1262.645	0.663	0.4	-30.0	NO	0.999	NO	MM
3	3 171227M2_4	Standard	1.000	3.98	205.763	1275.236	2.017	1.0	-1.7	NO	0.999	NO	MM
4	4 171227M2_5	Standard	2.000	3.98	421.746	1046.561	5.037	2.4	19.8	NO	0.999	NO	MM
5	5 171227M2_6	Standard	5.000	3.98	1131.681	1328.807	10.646	5.0	0.4	NO	0.999	NO	MM
6	6 171227M2_7	Standard	10.000	3.98	2300.463	1249.226	23.019	10.8	8.0	NO	0.999	NO	MM
7	7 171227M2_8	Standard	50.000	3.98	10048.782	1181.561	106.308	49.7	-0.5	NO	0.999	NO	MM
8	8 171227M2_9	Standard	100.000	3.98	20539.982	1268.674	202.376	94.7	-5.3	NO	0.999	NO	MM
9	9 171227M2_10	Standard	250.000	3.98	53125.645	1220.190	544.235	254.5	1.8	NO	0.999	NO	MM

Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

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**Compound name: 6:2 FTS**

Coefficient of Determination: R<sup>2</sup> = 0.998918

Calibration curve:  $8.87912e-005 * x^2 + 0.22705 * x + 0.0173879$

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 171227M2_2	Standard	0.250	4.29	89.897	13163.429	0.085	0.3	19.7	NO	0.999	NO	bb
2	2 171227M2_3	Standard	0.500	4.28	146.298	14294.111	0.128	0.5	-2.6	NO	0.999	NO	bb
3	3 171227M2_4	Standard	1.000	4.29	219.027	13555.376	0.202	0.8	-18.7	NO	0.999	NO	bb
4	4 171227M2_5	Standard	2.000	4.28	489.448	14219.026	0.430	1.8	-9.1	NO	0.999	NO	bb
5	5 171227M2_6	Standard	5.000	4.28	1302.923	15102.760	1.078	4.7	-6.7	NO	0.999	NO	bb
6	6 171227M2_7	Standard	10.000	4.29	3011.673	13826.356	2.723	11.9	18.6	NO	0.999	NO	bb
7	7 171227M2_8	Standard	50.000	4.29	12740.854	13611.259	11.701	50.5	0.9	NO	0.999	NO	bb
8	8 171227M2_9	Standard	100.000	4.29	25105.082	13623.771	23.034	97.6	-2.4	NO	0.999	NO	bb
9	9 171227M2_10	Standard	250.000	4.28	63740.547	12743.418	62.523	250.7	0.3	NO	0.999	NO	bb

**Compound name: L-PFOA**

Correlation coefficient: r = 0.998602, r<sup>2</sup> = 0.997206

Calibration curve:  $1.24231 * x + 0.274251$

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 171227M2_2	Standard	0.250	4.34	681.019	13163.429	0.647	0.3	19.9	NO	0.997	NO	bb
2	2 171227M2_3	Standard	0.500	4.33	1055.797	14294.111	0.923	0.5	4.5	NO	0.997	NO	bb
3	3 171227M2_4	Standard	1.000	4.34	1446.105	13555.376	1.334	0.9	-14.7	NO	0.997	NO	bb
4	4 171227M2_5	Standard	2.000	4.34	2767.211	14219.026	2.433	1.7	-13.1	NO	0.997	NO	bb
5	5 171227M2_6	Standard	5.000	4.34	7742.191	15102.760	6.408	4.9	-1.3	NO	0.997	NO	bb
6	6 171227M2_7	Standard	10.000	4.34	15377.668	13826.356	13.902	11.0	9.7	NO	0.997	NO	bb
7	7 171227M2_8	Standard	50.000	4.34	68270.938	13611.259	62.697	50.2	0.5	NO	0.997	NO	bb
8	8 171227M2_9	Standard	100.000	4.34	124057.992	13623.771	113.825	91.4	-8.6	NO	0.997	NO	bb
9	9 171227M2_10	Standard	250.000	4.34	326759.563	12743.418	320.518	257.8	3.1	NO	0.997	NO	bb



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**Compound name: PFHpS**

Coefficient of Determination:  $R^2 = 0.999640$

Calibration curve:  $-8.23107e-005 * x^2 + 0.300027 * x + -0.0487822$

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 171227M2_2	Standard	0.250	4.44	48.204	13163.429	0.046	0.3	26.1	NO	1.000	NO	MM
2	2 171227M2_3	Standard	0.500	4.44	122.189	14294.111	0.107	0.5	3.8	NO	1.000	NO	bb
3	3 171227M2_4	Standard	1.000	4.44	211.832	13555.376	0.195	0.8	-18.6	NO	1.000	NO	bb
4	4 171227M2_5	Standard	2.000	4.44	546.853	14219.026	0.481	1.8	-11.7	NO	1.000	NO	bb
5	5 171227M2_6	Standard	5.000	4.44	1683.078	15102.760	1.393	4.8	-3.8	NO	1.000	NO	bb
6	6 171227M2_7	Standard	10.000	4.44	3355.859	13826.356	3.034	10.3	3.0	NO	1.000	NO	bb
7	7 171227M2_8	Standard	50.000	4.44	16420.051	13611.259	15.079	51.1	2.3	NO	1.000	NO	bb
8	8 171227M2_9	Standard	100.000	4.44	31390.182	13623.771	28.801	98.8	-1.2	NO	1.000	NO	bb
9	9 171227M2_10	Standard	250.000	4.44	71238.086	12743.418	69.877	250.2	0.1	NO	1.000	NO	bb

**Compound name: PFNA**

Coefficient of Determination:  $R^2 = 0.999012$

Calibration curve:  $0.000248018 * x^2 + 1.53471 * x + -0.0129473$

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 171227M2_2	Standard	0.250	4.76	318.003	9859.559	0.403	0.3	8.4	NO	0.999	NO	bb
2	2 171227M2_3	Standard	0.500	4.76	551.765	8777.721	0.786	0.5	4.1	NO	0.999	NO	bb
3	3 171227M2_4	Standard	1.000	4.76	1311.051	11751.393	1.395	0.9	-8.3	NO	0.999	NO	bb
4	4 171227M2_5	Standard	2.000	4.76	2012.020	10893.109	2.309	1.5	-24.4	NO	0.999	NO	bb
5	5 171227M2_6	Standard	5.000	4.76	7032.202	9332.128	9.419	6.1	22.8	NO	0.999	NO	bb
6	6 171227M2_7	Standard	10.000	4.76	12528.771	10484.868	14.937	9.7	-2.7	NO	0.999	NO	bb
7	7 171227M2_8	Standard	50.000	4.76	59371.309	9467.145	78.391	50.7	1.3	NO	0.999	NO	bb
8	8 171227M2_9	Standard	100.000	4.76	117937.258	9591.712	153.697	98.6	-1.4	NO	0.999	NO	bb
9	9 171227M2_10	Standard	250.000	4.76	327242.750	10230.392	399.841	250.4	0.2	NO	0.999	NO	bb

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**Compound name: PFOSA**

Correlation coefficient:  $r = 0.999701$ ,  $r^2 = 0.999402$

Calibration curve:  $1.2583 * x + -0.0765078$

Response type: Internal Std ( Ref 40 ), 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 171227M2_2	Standard	0.250	4.83	58.116	2569.672	0.283	0.3	14.2	NO	0.999	NO	MM
2	2 171227M2_3	Standard	0.500	4.83	120.281	2700.973	0.557	0.5	0.6	NO	0.999	NO	bb
3	3 171227M2_4	Standard	1.000	4.83	238.391	2843.462	1.048	0.9	-10.6	NO	0.999	NO	bb
4	4 171227M2_5	Standard	2.000	4.83	440.340	2542.202	2.165	1.8	-10.9	NO	0.999	NO	bb
5	5 171227M2_6	Standard	5.000	4.83	1349.713	2613.613	6.455	5.2	3.8	NO	0.999	NO	bb
6	6 171227M2_7	Standard	10.000	4.83	2753.695	2651.221	12.983	10.4	3.8	NO	0.999	NO	bb
7	7 171227M2_8	Standard	50.000	4.83	13685.002	2819.033	60.681	48.3	-3.4	NO	0.999	NO	bb
8	8 171227M2_9	Standard	100.000	4.83	23358.801	2247.480	129.917	103.3	3.3	NO	0.999	NO	bb
9	9 171227M2_10	Standard	250.000	4.83	56545.727	2264.458	312.137	248.1	-0.8	NO	0.999	NO	bd

**Compound name: L-PFOS**

Coefficient of Determination:  $R^2 = 0.996007$

Calibration curve:  $0.000300694 * x^2 + 1.23969 * x + -0.0317851$

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 171227M2_2	Standard	0.250	4.84	70.847	2886.512	0.307	0.3	9.2	NO	0.996	NO	MM
2	2 171227M2_3	Standard	0.500	4.84	150.287	3604.530	0.521	0.4	-10.8	NO	0.996	NO	MM
3	3 171227M2_4	Standard	1.000	4.84	311.359	3164.295	1.230	1.0	1.8	NO	0.996	NO	MM
4	4 171227M2_5	Standard	2.000	4.83	564.189	3039.063	2.321	1.9	-5.2	NO	0.996	NO	MM
5	5 171227M2_6	Standard	5.000	4.84	1372.968	3003.427	5.714	4.6	-7.4	NO	0.996	NO	MM
6	6 171227M2_7	Standard	10.000	4.84	3319.461	3098.998	13.389	10.8	8.0	NO	0.996	NO	MM
7	7 171227M2_8	Standard	50.000	4.84	15166.981	3495.231	54.242	43.3	-13.4	NO	0.996	NO	MM
8	8 171227M2_9	Standard	100.000	4.84	33462.152	3039.179	137.628	108.2	8.2	NO	0.996	NO	MM
9	9 171227M2_10	Standard	250.000	4.84	79229.375	3037.251	326.074	248.1	-0.8	NO	0.996	NO	MM

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**Compound name: PFDA**

Coefficient of Determination: R<sup>2</sup> = 0.997832

Calibration curve: -0.0050479 \* x<sup>2</sup> + 1.55973 \* x + -0.0842373

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 171227M2_2	Standard	0.250	5.12	343.974	9518.367	0.452	0.3	37.6	NO	0.998	NO	MMX
2	2 171227M2_3	Standard	0.500	5.12	609.614	10515.332	0.725	0.5	3.9	NO	0.998	NO	bb
3	3 171227M2_4	Standard	1.000	5.12	1101.790	9300.638	1.481	1.0	0.7	NO	0.998	NO	bb
4	4 171227M2_5	Standard	2.000	5.12	2121.444	10007.011	2.650	1.8	-11.8	NO	0.998	NO	bb
5	5 171227M2_6	Standard	5.000	5.12	6452.377	9589.339	8.411	5.5	10.9	NO	0.998	NO	bd
6	6 171227M2_7	Standard	10.000	5.12	11038.605	9535.366	14.471	9.6	-3.7	NO	0.998	NO	bb
7	7 171227M2_8	Standard	50.000	5.12	64673.234	12375.918	65.322	50.0	0.1	NO	0.998	NO	bb
8	8 171227M2_9	Standard	100.000	5.12	133575.094	9066.912	184.152			NO	0.998	NO	bbXI
9	9 171227M2_10	Standard	250.000	5.12	268778.500	9175.472	366.164			NO	0.998	NO	bdXI

**Compound name: 8:2 FTS**

Coefficient of Determination: R<sup>2</sup> = 0.996846

Calibration curve: -0.00223216 \* x<sup>2</sup> + 0.362891 \* x + -0.0269702

Response type: Internal Std ( Ref 42 ), 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 171227M2_2	Standard	0.250	5.09	49.811	9518.367	0.065	0.3	2.0	NO	0.997	NO	MM
2	2 171227M2_3	Standard	0.500	5.10	98.045	10515.332	0.117	0.4	-20.7	NO	0.997	NO	bb
3	3 171227M2_4	Standard	1.000	5.09	246.138	9300.638	0.331	1.0	-0.8	NO	0.997	NO	bb
4	4 171227M2_5	Standard	2.000	5.09	472.333	10007.011	0.590	1.7	-14.1	NO	0.997	NO	bb
5	5 171227M2_6	Standard	5.000	5.09	1297.019	9589.339	1.691	4.9	-2.4	NO	0.997	NO	bd
6	6 171227M2_7	Standard	10.000	5.10	2740.242	9535.366	3.592	10.7	6.7	NO	0.997	NO	bb
7	7 171227M2_8	Standard	50.000	5.10	12378.889	12375.918	12.503	49.8	-0.5	NO	0.997	NO	bb
8	8 171227M2_9	Standard	100.000	5.09	27738.313	9066.912	38.241			NO	0.997	NO	bbXI
9	9 171227M2_10	Standard	250.000	5.10	64158.574	9175.472	87.405			NO	0.997	NO	bdXI

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**Compound name: N-MeFOSAA**

Coefficient of Determination: R<sup>2</sup> = 0.998037

Calibration curve: -0.00194018 \* x<sup>2</sup> + 1.72273 \* x + -0.181365

Response type: Internal Std ( Ref 44 ), 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 171227M2_2	Standard	0.250	5.27	82.713	4963.580	0.208	0.2	-9.5	NO	0.998	NO	bb
2	2 171227M2_3	Standard	0.500	5.26	226.672	5539.444	0.511	0.4	-19.5	NO	0.998	NO	bb
3	3 171227M2_4	Standard	1.000	5.27	502.756	5332.894	1.178	0.8	-21.0	NO	0.998	NO	bb
4	4 171227M2_5	Standard	2.000	5.27	1505.595	6130.912	3.070	1.9	-5.4	NO	0.998	NO	bb
5	5 171227M2_6	Standard	5.000	5.26	3821.920	4858.688	9.833	5.9	17.0	NO	0.998	NO	bd
6	6 171227M2_7	Standard	10.000	5.27	6520.119	5008.923	16.271	9.7	-3.4	NO	0.998	NO	bb
7	7 171227M2_8	Standard	50.000	5.27	36506.973	5641.206	80.894	49.9	-0.3	NO	0.998	NO	bb
8	8 171227M2_9	Standard	100.000	5.26	62330.102	5099.348	152.789	100.1	0.1	NO	0.998	NO	bd
9	9 171227M2_10	Standard	250.000	5.27	183947.938	5086.673	452.034			NO	0.998	NO	bbXI

**Compound name: N-EtFOSAA**

Coefficient of Determination: R<sup>2</sup> = 0.997029

Calibration curve: 1.84032e-005 \* x<sup>2</sup> + 1.21223 \* x + -0.0878562

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 171227M2_2	Standard	0.250	5.42	103.996	5765.227	0.225	0.3	3.4	NO	0.997	NO	bb
2	2 171227M2_3	Standard	0.500	5.42	227.732	5889.360	0.483	0.5	-5.8	NO	0.997	NO	bb
3	3 171227M2_4	Standard	1.000	5.42	497.781	6991.896	0.890	0.8	-19.3	NO	0.997	NO	bb
4	4 171227M2_5	Standard	2.000	5.42	947.947	6313.761	1.877	1.6	-19.0	NO	0.997	NO	bb
5	5 171227M2_6	Standard	5.000	5.42	3101.046	6451.895	6.008	5.0	0.6	NO	0.997	NO	bb
6	6 171227M2_7	Standard	10.000	5.42	6353.150	6152.865	12.907	10.7	7.2	NO	0.997	NO	bd
7	7 171227M2_8	Standard	50.000	5.42	34523.953	6457.469	66.829	55.2	10.3	NO	0.997	NO	bb
8	8 171227M2_9	Standard	100.000	5.42	58484.148	6485.901	112.714	92.9	-7.1	NO	0.997	NO	bb
9	9 171227M2_10	Standard	250.000	5.42	120767.375	4928.821	306.279	251.8	0.7	NO	0.997	NO	bb

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**Compound name: PFUdA**

Coefficient of Determination: R<sup>2</sup> = 0.997047

Calibration curve: 0.00147838 \* x<sup>2</sup> + 1.00891 \* x + 0.082257

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	1 171227M2_2	Standard	0.250	5.43	290.951	11874.624	0.306	0.2	-11.2	NO	0.997	NO	bb
2	2 171227M2_3	Standard	0.500	5.43	450.827	11943.025	0.472	0.4	-22.8	NO	0.997	NO	bb
3	3 171227M2_4	Standard	1.000	5.43	899.385	12096.048	0.929	0.8	-16.1	NO	0.997	NO	bb
4	4 171227M2_5	Standard	2.000	5.43	2015.876	11576.810	2.177	2.1	3.5	NO	0.997	NO	bb
5	5 171227M2_6	Standard	5.000	5.43	6349.792	12204.513	6.504	6.3	26.1	NO	0.997	NO	bd
6	6 171227M2_7	Standard	10.000	5.43	11864.395	11786.622	12.582	12.2	21.7	NO	0.997	NO	bb
7	7 171227M2_8	Standard	50.000	5.44	56536.574	12370.035	57.131	52.5	5.0	NO	0.997	NO	bb
8	8 171227M2_9	Standard	100.000	5.43	109716.914	12881.869	106.464	92.8	-7.2	NO	0.997	NO	bb
9	9 171227M2_10	Standard	250.000	5.43	311114.344	11183.854	347.727	251.7	0.7	NO	0.997	NO	bb

**Compound name: PFDS**

Coefficient of Determination: R<sup>2</sup> = 0.995097

Calibration curve: 0.000194307 \* x<sup>2</sup> + 0.317229 \* x + -0.0197315

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	1 171227M2_2	Standard	0.250	5.48	55.818	11874.624	0.059	0.2	-1.0	NO	0.995	NO	MM
2	2 171227M2_3	Standard	0.500	5.47	151.670	11943.025	0.159	0.6	12.5	NO	0.995	NO	bb
3	3 171227M2_4	Standard	1.000	5.48	270.753	12096.048	0.280	0.9	-5.6	NO	0.995	NO	bb
4	4 171227M2_5	Standard	2.000	5.47	482.954	11576.810	0.521	1.7	-14.8	NO	0.995	NO	bb
5	5 171227M2_6	Standard	5.000	5.48	1744.112	12204.513	1.786	5.7	13.5	NO	0.995	NO	bb
6	6 171227M2_7	Standard	10.000	5.48	2629.248	11786.622	2.788	8.8	-12.0	NO	0.995	NO	bb
7	7 171227M2_8	Standard	50.000	5.48	18683.514	12370.035	18.880	57.5	15.1	NO	0.995	NO	bb
8	8 171227M2_9	Standard	100.000	5.48	31595.900	12881.869	30.659	91.6	-8.4	NO	0.995	NO	bb
9	9 171227M2_10	Standard	250.000	5.48	82427.578	11183.854	92.128	251.7	0.7	NO	0.995	NO	bb

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**Compound name: PFDoA**

Coefficient of Determination:  $R^2 = 0.999022$

Calibration curve:  $0.00126025 * x^2 + 1.75677 * x + -0.0893572$

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 171227M2_2	Standard	0.250	5.71	281.413	8054.505	0.437	0.3	19.8	NO	0.999	NO	bb
2	2 171227M2_3	Standard	0.500	5.71	459.677	8743.186	0.657	0.4	-15.0	NO	0.999	NO	bb
3	3 171227M2_4	Standard	1.000	5.71	1187.869	8431.139	1.761	1.1	5.3	NO	0.999	NO	bb
4	4 171227M2_5	Standard	2.000	5.71	1932.598	9103.854	2.654	1.6	-22.0	NO	0.999	NO	bb
5	5 171227M2_6	Standard	5.000	5.71	5590.929	8413.934	8.306	4.8	-4.7	NO	0.999	NO	bd
6	6 171227M2_7	Standard	10.000	5.70	13316.887	7956.292	20.922	11.9	18.6	NO	0.999	NO	bb
7	7 171227M2_8	Standard	50.000	5.71	63050.801	8744.809	90.126	49.6	-0.8	NO	0.999	NO	bd
8	8 171227M2_9	Standard	100.000	5.71	117327.805	7893.276	185.803	98.8	-1.2	NO	0.999	NO	bb
9	9 171227M2_10	Standard	250.000	5.71	289757.656	6980.643	518.859	250.4	0.2	NO	0.999	NO	bb

**Compound name: N-MeFOSA**

Correlation coefficient:  $r = 0.998604$ ,  $r^2 = 0.997211$

Calibration curve:  $1.13158 * x + -0.0254576$

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 171227M2_2	Standard	1.250	5.86	167.310	17951.223	1.398	1.3	0.6	NO	0.997	NO	bb
2	2 171227M2_3	Standard	2.500	5.86	302.246	16653.398	2.722	2.4	-2.9	NO	0.997	NO	bb
3	3 171227M2_4	Standard	5.000	5.86	569.019	16891.504	5.053	4.5	-10.2	NO	0.997	NO	bb
4	4 171227M2_5	Standard	10.000	5.86	1194.250	17379.400	10.307	9.1	-8.7	NO	0.997	NO	bb
5	5 171227M2_6	Standard	25.000	5.86	3483.596	18111.424	28.851	25.5	2.1	NO	0.997	NO	bb
6	6 171227M2_7	Standard	50.000	5.86	7164.417	17693.111	60.739	53.7	7.4	NO	0.997	NO	bb
7	7 171227M2_8	Standard	250.000	5.86	34627.773	16898.027	307.383	271.7	8.7	NO	0.997	NO	bb
8	8 171227M2_9	Standard	500.000	5.86	66696.031	16794.846	595.683	526.4	5.3	NO	0.997	NO	bb
9	9 171227M2_10	Standard	1250.000	5.86	154509.922	17080.729	1356.879	1199.1	-4.1	NO	0.997	NO	bb

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**Compound name: PFTrDA**

Correlation coefficient:  $r = 0.996052$ ,  $r^2 = 0.992119$

Calibration curve:  $1.68443 * x + -0.444294$

Response type: Internal Std ( Ref 47 ), 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 171227M2_2	Standard	0.250	5.94	372.353	8054.505	0.578	0.6	142.7	NO	0.992	NO	bbX
2	2 171227M2_3	Standard	0.500	5.94	419.267	8743.186	0.599	0.6	23.9	NO	0.992	NO	bb
3	3 171227M2_4	Standard	1.000	5.94	1076.364	8431.139	1.596	1.2	21.1	NO	0.992	NO	bb
4	4 171227M2_5	Standard	2.000	5.95	1691.315	9103.854	2.322	1.6	-17.9	NO	0.992	NO	bb
5	5 171227M2_6	Standard	5.000	5.95	5638.848	8413.934	8.377	5.2	4.7	NO	0.992	NO	bb
6	6 171227M2_7	Standard	10.000	5.94	8845.055	7956.292	13.896	8.5	-14.9	NO	0.992	NO	bd
7	7 171227M2_8	Standard	50.000	5.95	47442.535	8744.809	67.815	40.5	-19.0	NO	0.992	NO	bb
8	8 171227M2_9	Standard	100.000	5.94	101851.219	7893.276	161.294	96.0	-4.0	NO	0.992	NO	bb
9	9 171227M2_10	Standard	250.000	5.94	248778.781	6980.643	445.480	264.7	5.9	NO	0.992	NO	bb

**Compound name: PFTeDA**

Coefficient of Determination:  $R^2 = 0.996372$

Calibration curve:  $-0.0148538 * x^2 + 2.8497 * x + 0.0369329$

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 171227M2_2	Standard	0.250	6.16	127.963	2234.556	0.716	0.2	-4.6	NO	0.996	NO	bb
2	2 171227M2_3	Standard	0.500	6.15	194.907	2124.994	1.147	0.4	-22.0	NO	0.996	NO	bb
3	3 171227M2_4	Standard	1.000	6.16	574.462	2146.656	3.345	1.2	16.8	NO	0.996	NO	bb
4	4 171227M2_5	Standard	2.000	6.16	916.039	1846.036	6.203	2.2	9.4	NO	0.996	NO	bb
5	5 171227M2_6	Standard	5.000	6.16	2650.909	2216.522	14.950	5.4	7.7	NO	0.996	NO	bb
6	6 171227M2_7	Standard	10.000	6.16	4695.736	2338.622	25.099	9.2	-7.6	NO	0.996	NO	bb
7	7 171227M2_8	Standard	50.000	6.16	22797.658	2697.390	105.647	50.2	0.4	NO	0.996	NO	bb
8	8 171227M2_9	Standard	100.000	6.16	51095.570	2097.857	304.451			NO	0.996	YES	bbXI
9	9 171227M2_10	Standard	250.000	6.16	141048.547	2847.631	619.149			NO	0.996	YES	dbXI

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**Compound name: N-EtFOSA**

Coefficient of Determination: R<sup>2</sup> = 0.999673

Calibration curve: -2.63342e-005 \* x<sup>2</sup> + 1.06304 \* x + -0.300904

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 171227M2_2	Standard	1.250	6.22	203.185	26271.311	1.160	1.4	10.0	NO	1.000	NO	bb
2	2 171227M2_3	Standard	2.500	6.23	420.743	25612.781	2.464	2.6	4.0	NO	1.000	NO	bb
3	3 171227M2_4	Standard	5.000	6.22	817.192	27238.842	4.500	4.5	-9.7	NO	1.000	NO	bb
4	4 171227M2_5	Standard	10.000	6.22	1673.314	26307.252	9.541	9.3	-7.4	NO	1.000	NO	bb
5	5 171227M2_6	Standard	25.000	6.23	4856.281	27591.568	26.401	25.1	0.5	NO	1.000	NO	bb
6	6 171227M2_7	Standard	50.000	6.22	9341.880	26260.840	53.360	50.5	1.1	NO	1.000	NO	bb
7	7 171227M2_8	Standard	250.000	6.23	48911.148	26899.170	272.747	258.5	3.4	NO	1.000	NO	bb
8	8 171227M2_9	Standard	500.000	6.22	91253.445	26665.355	513.326	489.1	-2.2	NO	1.000	NO	bb
9	9 171227M2_10	Standard	1250.000	6.23	206874.781	24053.830	1290.074	1252.7	0.2	NO	1.000	NO	bb

**Compound name: PFHxDA**

Coefficient of Determination: R<sup>2</sup> = 0.998631

Calibration curve: -0.000996916 \* x<sup>2</sup> + 0.929338 \* x + -0.12247

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 171227M2_2	Standard	0.250	6.48	77.953	2174.156	0.179	0.3	29.9	NO	0.999	NO	bb
2	2 171227M2_3	Standard	0.500	6.47	164.604	2237.443	0.368	0.5	5.6	NO	0.999	NO	bb
3	3 171227M2_4	Standard	1.000	6.47	279.220	2126.996	0.656	0.8	-16.1	NO	0.999	NO	bb
4	4 171227M2_5	Standard	2.000	6.47	609.740	2023.093	1.507	1.8	-12.2	NO	0.999	NO	bb
5	5 171227M2_6	Standard	5.000	6.47	1814.293	2095.904	4.328	4.8	-3.7	NO	0.999	NO	bb
6	6 171227M2_7	Standard	10.000	6.47	3322.816	1887.999	8.800	9.7	-3.0	NO	0.999	NO	bb
7	7 171227M2_8	Standard	50.000	6.47	16787.875	2006.273	41.838	47.6	-4.8	NO	0.999	NO	bb
8	8 171227M2_9	Standard	100.000	6.47	35592.371	2052.555	86.703	105.3	5.3	NO	0.999	NO	bb
9	9 171227M2_10	Standard	250.000	6.47	85349.086	2528.415	168.780	247.4	-1.0	NO	0.999	NO	bd



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**Compound name: PFODA**

Coefficient of Determination:  $R^2 = 0.994872$

Calibration curve:  $-0.00177409 * x^2 + 1.42876 * x + -0.0978488$

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 171227M2_2	Standard	0.250	6.69	136.954	2174.156	0.315	0.3	15.6	NO	0.995	NO	bb
2	2 171227M2_3	Standard	0.500	6.69	235.605	2237.443	0.527	0.4	-12.6	NO	0.995	NO	bb
3	3 171227M2_4	Standard	1.000	6.69	562.518	2126.996	1.322	1.0	-0.5	NO	0.995	NO	bb
4	4 171227M2_5	Standard	2.000	6.69	830.344	2023.093	2.052	1.5	-24.6	NO	0.995	NO	bb
5	5 171227M2_6	Standard	5.000	6.69	2947.758	2095.904	7.032	5.0	0.4	NO	0.995	NO	bd
6	6 171227M2_7	Standard	10.000	6.69	5127.245	1887.999	13.579	9.7	-3.1	NO	0.995	NO	bb
7	7 171227M2_8	Standard	50.000	6.70	24005.162	2006.273	59.825	44.4	-11.2	NO	0.995	NO	bb
8	8 171227M2_9	Standard	100.000	6.69	55972.047	2052.555	136.347	110.7	10.7	NO	0.995	NO	bb
9	9 171227M2_10	Standard	250.000	6.70	122945.156	2528.415	243.127	244.4	-2.2	NO	0.995	NO	bd

**Compound name: N-MeFOSE**

Correlation coefficient:  $r = 0.999225$ ,  $r^2 = 0.998451$

Calibration curve:  $1.22136 * x + -0.531738$

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 171227M2_2	Standard	1.250	6.32	205.606	23424.840	1.317	1.5	21.1	NO	0.998	NO	bb
2	2 171227M2_3	Standard	2.500	6.32	453.707	21551.338	3.158	3.0	20.8	NO	0.998	NO	bb
3	3 171227M2_4	Standard	5.000	6.32	765.497	21977.563	5.225	4.7	-5.7	NO	0.998	NO	bb
4	4 171227M2_5	Standard	10.000	6.32	1496.693	23542.486	9.536	8.2	-17.6	NO	0.998	NO	bb
5	5 171227M2_6	Standard	25.000	6.32	4314.532	24058.156	26.901	22.5	-10.2	NO	0.998	NO	bb
6	6 171227M2_7	Standard	50.000	6.32	8735.879	22955.393	57.084	47.2	-5.7	NO	0.998	NO	bb
7	7 171227M2_8	Standard	250.000	6.32	42795.691	22730.518	282.411	231.7	-7.3	NO	0.998	NO	bb
8	8 171227M2_9	Standard	500.000	6.32	94872.117	22370.564	636.140	521.3	4.3	NO	0.998	NO	bd
9	9 171227M2_10	Standard	1250.000	6.32	245576.656	24065.676	1530.665	1253.7	0.3	NO	0.998	NO	bd

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**Compound name: N-EtFOSE**

Correlation coefficient:  $r = 0.996730$ ,  $r^2 = 0.993471$

Calibration curve:  $1.33127 * x + -0.306208$

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 171227M2_2	Standard	1.250	6.47	243.128	23821.568	1.531	1.4	10.4	NO	0.993	NO	bb
2	2 171227M2_3	Standard	2.500	6.47	365.379	22501.572	2.436	2.1	-17.6	NO	0.993	NO	bb
3	3 171227M2_4	Standard	5.000	6.47	1079.125	23379.631	6.923	5.4	8.6	NO	0.993	NO	bb
4	4 171227M2_5	Standard	10.000	6.47	2111.330	26375.297	12.007	9.2	-7.5	NO	0.993	NO	bb
5	5 171227M2_6	Standard	25.000	6.46	5614.565	28445.939	29.607	22.5	-10.1	NO	0.993	NO	bb
6	6 171227M2_7	Standard	50.000	6.47	10684.882	22042.639	72.711	54.8	9.7	NO	0.993	NO	bb
7	7 171227M2_8	Standard	250.000	6.47	56215.973	25817.605	326.614	245.6	-1.8	NO	0.993	NO	bb
8	8 171227M2_9	Standard	500.000	6.46	96747.531	19219.795	755.062	567.4	13.5	NO	0.993	NO	bd
9	9 171227M2_10	Standard	1250.000	6.47	249659.031	23736.309	1577.703	1185.3	-5.2	NO	0.993	NO	bd

**Compound name: 13C3-PFBA**

Response Factor: 0.771377

RRF SD: 0.0287392, Relative SD: 3.7257

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 171227M2_2	Standard	12.500	1.51	9109.702	11266.789	10.107	13.1	4.8	NO		NO	bb
2	2 171227M2_3	Standard	12.500	1.52	8940.615	11474.547	9.740	12.6	1.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	1.52	9244.819	11800.232	9.793	12.7	1.6	NO		NO	bb
4	4 171227M2_5	Standard	12.500	1.52	9637.834	11773.504	10.233	13.3	6.1	NO		NO	bb
5	5 171227M2_6	Standard	12.500	1.52	9386.572	12782.838	9.179	11.9	-4.8	NO		NO	bb
6	6 171227M2_7	Standard	12.500	1.52	9079.917	12197.028	9.305	12.1	-3.5	NO		NO	bb
7	7 171227M2_8	Standard	12.500	1.52	9406.534	12250.466	9.598	12.4	-0.5	NO		NO	bb
8	8 171227M2_9	Standard	12.500	1.52	9055.936	12006.595	9.428	12.2	-2.2	NO		NO	bb
9	9 171227M2_10	Standard	12.500	1.52	8899.062	11837.236	9.397	12.2	-2.5	NO		NO	bb

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**Compound name: 13C3-PFPeA**

Response Factor: 0.747447

RRF SD: 0.0494811, Relative SD: 6.62002

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 171227M2_2	Standard	12.500	2.47	10138.515	13336.426	9.503	12.7	1.7	NO		NO	bb
2	2 171227M2_3	Standard	12.500	2.47	10123.872	13355.194	9.476	12.7	1.4	NO		NO	bb
3	3 171227M2_4	Standard	12.500	2.47	9829.790	14296.511	8.595	11.5	-8.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	2.47	10132.158	12722.052	9.955	13.3	6.6	NO		NO	bb
5	5 171227M2_6	Standard	12.500	2.47	10246.948	15057.541	8.506	11.4	-9.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	2.47	9841.680	14190.524	8.669	11.6	-7.2	NO		NO	bd
7	7 171227M2_8	Standard	12.500	2.47	9541.606	12244.098	9.741	13.0	4.3	NO		NO	bb
8	8 171227M2_9	Standard	12.500	2.47	9903.929	13133.470	9.426	12.6	0.9	NO		NO	bb
9	9 171227M2_10	Standard	12.500	2.47	9695.774	11862.702	10.217	13.7	9.3	NO		NO	bb

**Compound name: 13C3-PFBS**

Response Factor: 0.101392

RRF SD: 0.0107575, Relative SD: 10.6098

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 171227M2_2	Standard	12.500	2.74	1310.046	13336.426	1.228	12.1	-3.1	NO		NO	bb
2	2 171227M2_3	Standard	12.500	2.74	1399.401	13355.194	1.310	12.9	3.3	NO		NO	bd
3	3 171227M2_4	Standard	12.500	2.74	1499.687	14296.511	1.311	12.9	3.5	NO		NO	bb
4	4 171227M2_5	Standard	12.500	2.74	1333.655	12722.052	1.310	12.9	3.4	NO		NO	bb
5	5 171227M2_6	Standard	12.500	2.74	1292.882	15057.541	1.073	10.6	-15.3	NO		NO	bb
6	6 171227M2_7	Standard	12.500	2.74	1368.757	14190.524	1.206	11.9	-4.9	NO		NO	bb
7	7 171227M2_8	Standard	12.500	2.74	1339.128	12244.098	1.367	13.5	7.9	NO		NO	bb
8	8 171227M2_9	Standard	12.500	2.74	1151.352	13133.470	1.096	10.8	-13.5	NO		NO	bb
9	9 171227M2_10	Standard	12.500	2.74	1428.674	11862.702	1.505	14.8	18.8	NO		NO	bb

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**Compound name: 13C2-PFHxA**

Response Factor: 0.60075

RRF SD: 0.036076, Relative SD: 6.00516

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 171227M2_2	Standard	5.000	3.23	3269.867	13336.426	3.065	5.1	2.0	NO		NO	bb
2	2 171227M2_3	Standard	5.000	3.23	3115.723	13355.194	2.916	4.9	-2.9	NO		NO	bb
3	3 171227M2_4	Standard	5.000	3.23	3457.569	14296.511	3.023	5.0	0.6	NO		NO	bb
4	4 171227M2_5	Standard	5.000	3.23	3128.971	12722.052	3.074	5.1	2.4	NO		NO	bb
5	5 171227M2_6	Standard	5.000	3.23	3174.698	15057.541	2.635	4.4	-12.3	NO		NO	bb
6	6 171227M2_7	Standard	5.000	3.23	3240.993	14190.524	2.855	4.8	-5.0	NO		NO	bb
7	7 171227M2_8	Standard	5.000	3.23	3133.422	12244.098	3.199	5.3	6.5	NO		NO	bb
8	8 171227M2_9	Standard	5.000	3.23	3380.480	13133.470	3.217	5.4	7.1	NO		NO	bd
9	9 171227M2_10	Standard	5.000	3.23	2893.191	11862.702	3.049	5.1	1.5	NO		NO	bb

**Compound name: 13C4-PFHpA**

Response Factor: 0.676443

RRF SD: 0.0728646, Relative SD: 10.7717

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 171227M2_2	Standard	12.500	3.84	8496.508	13336.426	7.964	11.8	-5.8	NO		NO	bb
2	2 171227M2_3	Standard	12.500	3.83	9226.614	13355.194	8.636	12.8	2.1	NO		NO	bb
3	3 171227M2_4	Standard	12.500	3.84	8782.837	14296.511	7.679	11.4	-9.2	NO		NO	bb
4	4 171227M2_5	Standard	12.500	3.83	9480.081	12722.052	9.315	13.8	10.2	NO		NO	bb
5	5 171227M2_6	Standard	12.500	3.83	8254.716	15057.541	6.853	10.1	-19.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	3.84	9052.288	14190.524	7.974	11.8	-5.7	NO		NO	bb
7	7 171227M2_8	Standard	12.500	3.84	9428.651	12244.098	9.626	14.2	13.8	NO		NO	bb
8	8 171227M2_9	Standard	12.500	3.83	9154.792	13133.470	8.713	12.9	3.0	NO		NO	bb
9	9 171227M2_10	Standard	12.500	3.84	8864.943	11862.702	9.341	13.8	10.5	NO		NO	bb

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**Compound name: 18O2-PFHxS**

Response Factor: 0.346518

RRF SD: 0.0364423, Relative SD: 10.5167

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 171227M2_2	Standard	12.500	3.98	1383.153	3915.972	4.415	12.7	1.9	NO		NO	bb
2	2 171227M2_3	Standard	12.500	3.98	1262.645	3250.903	4.855	14.0	12.1	NO		NO	bb
3	3 171227M2_4	Standard	12.500	3.98	1275.236	4190.863	3.804	11.0	-12.2	NO		NO	bb
4	4 171227M2_5	Standard	12.500	3.98	1046.561	3669.464	3.565	10.3	-17.7	NO		NO	bd
5	5 171227M2_6	Standard	12.500	3.98	1328.807	3437.959	4.831	13.9	11.5	NO		NO	bb
6	6 171227M2_7	Standard	12.500	3.98	1249.226	3707.999	4.211	12.2	-2.8	NO		NO	MM
7	7 171227M2_8	Standard	12.500	3.98	1181.561	3628.547	4.070	11.7	-6.0	NO		NO	MM
8	8 171227M2_9	Standard	12.500	3.98	1268.674	3364.836	4.713	13.6	8.8	NO		NO	MM
9	9 171227M2_10	Standard	12.500	3.98	1220.190	3375.579	4.518	13.0	4.3	NO		NO	MM

**Compound name: 13C2-6:2 FTS**

Response Factor: 0.209824

RRF SD: 0.0313478, Relative SD: 14.94

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 171227M2_2	Standard	12.500	4.29	2466.189	15017.985	2.053	9.8	-21.7	NO		NO	bb
2	2 171227M2_3	Standard	12.500	4.28	3151.372	13305.198	2.961	14.1	12.9	NO		NO	bb
3	3 171227M2_4	Standard	12.500	4.29	2625.291	13841.206	2.371	11.3	-9.6	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.28	3236.319	14312.646	2.826	13.5	7.8	NO		NO	bd
5	5 171227M2_6	Standard	12.500	4.29	2851.812	15421.653	2.312	11.0	-11.9	NO		NO	bd
6	6 171227M2_7	Standard	12.500	4.28	3126.507	12414.578	3.148	15.0	20.0	NO		NO	bb
7	7 171227M2_8	Standard	12.500	4.29	3154.304	14661.149	2.689	12.8	2.5	NO		NO	bd
8	8 171227M2_9	Standard	12.500	4.29	4196.086	13534.527	3.875	18.5	47.8	NO		NO	bdX
9	9 171227M2_10	Standard	12.500	4.29	6163.296	13276.432	5.803	27.7	121.2	NO		NO	bbX

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**Compound name: 13C2-PFOA**

Response Factor: 0.990169

RRF SD: 0.0711655, Relative SD: 7.18721

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 171227M2_2	Standard	12.500	4.34	13163.429	15017.985	10.956	11.1	-11.5	NO		NO	bb
2	2 171227M2_3	Standard	12.500	4.34	14294.111	13305.198	13.429	13.6	8.5	NO		NO	bd
3	3 171227M2_4	Standard	12.500	4.34	13555.376	13841.206	12.242	12.4	-1.1	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.34	14219.026	14312.646	12.418	12.5	0.3	NO		NO	bd
5	5 171227M2_6	Standard	12.500	4.33	15102.760	15421.653	12.242	12.4	-1.1	NO		NO	bb
6	6 171227M2_7	Standard	12.500	4.34	13826.356	12414.578	13.921	14.1	12.5	NO		NO	bd
7	7 171227M2_8	Standard	12.500	4.34	13611.259	14661.149	11.605	11.7	-6.2	NO		NO	bb
8	8 171227M2_9	Standard	12.500	4.34	13623.771	13534.527	12.582	12.7	1.7	NO		NO	bb
9	9 171227M2_10	Standard	12.500	4.34	12743.418	13276.432	11.998	12.1	-3.1	NO		NO	bb

**Compound name: 13C5-PFNA**

Response Factor: 0.844932

RRF SD: 0.0800463, Relative SD: 9.4737

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 171227M2_2	Standard	12.500	4.76	9859.559	11712.082	10.523	12.5	-0.4	NO		NO	bb
2	2 171227M2_3	Standard	12.500	4.76	8777.721	12763.171	8.597	10.2	-18.6	NO		NO	bb
3	3 171227M2_4	Standard	12.500	4.76	11751.393	14679.309	10.007	11.8	-5.3	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.76	10893.109	12778.089	10.656	12.6	0.9	NO		NO	bb
5	5 171227M2_6	Standard	12.500	4.76	9332.128	11391.607	10.240	12.1	-3.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	4.76	10484.868	12021.911	10.902	12.9	3.2	NO		NO	bb
7	7 171227M2_8	Standard	12.500	4.76	9467.145	11376.679	10.402	12.3	-1.5	NO		NO	bb
8	8 171227M2_9	Standard	12.500	4.76	9591.712	10376.387	11.555	13.7	9.4	NO		NO	bd
9	9 171227M2_10	Standard	12.500	4.76	10230.392	10504.468	12.174	14.4	15.3	NO		NO	bb

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**Compound name: 13C8-PFOSA**

Response Factor: 0.199498  
 RRF SD: 0.0262345, Relative SD: 13.1503  
 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 171227M2_2	Standard	12.500	4.83	2569.672	10522.952	3.052	15.3	22.4	NO		NO	bb
2	2 171227M2_3	Standard	12.500	4.83	2700.973	13625.164	2.478	12.4	-0.6	NO		NO	bb
3	3 171227M2_4	Standard	12.500	4.83	2843.462	14650.646	2.426	12.2	-2.7	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.83	2542.202	15544.572	2.044	10.2	-18.0	NO		NO	bd
5	5 171227M2_6	Standard	12.500	4.83	2613.613	14786.616	2.209	11.1	-11.4	NO		NO	bb
6	6 171227M2_7	Standard	12.500	4.83	2651.221	13063.165	2.537	12.7	1.7	NO		NO	bb
7	7 171227M2_8	Standard	12.500	4.83	2819.033	12088.432	2.915	14.6	16.9	NO		NO	bb
8	8 171227M2_9	Standard	12.500	4.83	2247.480	12668.264	2.218	11.1	-11.1	NO		NO	bb
9	9 171227M2_10	Standard	12.500	4.83	2264.458	11040.664	2.564	12.9	2.8	NO		NO	bb

**Compound name: 13C8-PFOS**

Response Factor: 0.865254  
 RRF SD: 0.127819, Relative SD: 14.7724  
 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 171227M2_2	Standard	12.500	4.84	2886.512	3416.256	10.562	12.2	-2.3	NO		NO	bb
2	2 171227M2_3	Standard	12.500	4.83	3604.530	3020.019	14.919	17.2	37.9	NO		NO	bb
3	3 171227M2_4	Standard	12.500	4.84	3164.295	3631.896	10.891	12.6	0.7	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.83	3039.063	3899.005	9.743	11.3	-9.9	NO		NO	bb
5	5 171227M2_6	Standard	12.500	4.83	3003.427	3700.067	10.147	11.7	-6.2	NO		NO	bb
6	6 171227M2_7	Standard	12.500	4.84	3098.998	3942.271	9.826	11.4	-9.1	NO		NO	bb
7	7 171227M2_8	Standard	12.500	4.84	3495.231	4023.819	10.858	12.5	0.4	NO		NO	bb
8	8 171227M2_9	Standard	12.500	4.83	3039.179	3621.847	10.489	12.1	-3.0	NO		NO	bb
9	9 171227M2_10	Standard	12.500	4.84	3037.251	3832.320	9.907	11.4	-8.4	NO		NO	bb

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**Compound name: 13C2-PFDA**

Response Factor: 0.886126  
 RRF SD: 0.0956847, Relative SD: 10.7981  
 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 171227M2_2	Standard	12.500	5.12	9518.367	9868.478	12.057	13.6	8.8	NO		NO	bb
2	2 171227M2_3	Standard	12.500	5.12	10515.332	11925.573	11.022	12.4	-0.5	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.12	9300.638	12082.603	9.622	10.9	-13.1	NO		NO	bb
4	4 171227M2_5	Standard	12.500	5.12	10007.011	12878.628	9.713	11.0	-12.3	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.12	9589.339	11278.664	10.628	12.0	-4.1	NO		NO	bb
6	6 171227M2_7	Standard	12.500	5.12	9535.366	10129.650	11.767	13.3	6.2	NO		NO	bb
7	7 171227M2_8	Standard	12.500	5.12	12375.918	12265.921	12.612	14.2	13.9	NO		NO	bb
8	8 171227M2_9	Standard	12.500	5.12	9066.912	11542.679	9.819	11.1	-11.4	NO		NO	bb
9	9 171227M2_10	Standard	12.500	5.12	9175.472	9211.848	12.451	14.1	12.4	NO		NO	bb

**Compound name: 13C2-8:2 FTS**

Response Factor: 0.435805  
 RRF SD: 0.0328957, Relative SD: 24.2227  
 Response type: Internal Std ( Ref 55 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

*Not used.*

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171227M2_2	Standard	12.500	5.09	1526.711	13336.426	1.431	10.5	-15.7	NO		NO	bd
2	2 171227M2_3	Standard	12.500	5.09	2048.786	13355.194	1.918	14.1	13.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.09	1697.438	14296.511	1.484	10.9	-12.6	NO		NO	bb
4	4 171227M2_5	Standard	12.500	5.09	1669.713	12722.052	1.641	12.1	-3.4	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.09	1694.837	15057.541	1.407	10.4	-17.1	NO		NO	bb
6	6 171227M2_7	Standard	12.500	5.10	1337.944	14190.524	1.179	8.7	-30.6	NO		NO	bb
7	7 171227M2_8	Standard	12.500	5.09	2328.025	12244.098	2.377	17.5	40.0	NO		NO	bb
8	8 171227M2_9	Standard	12.500	5.09	2253.783	13133.470	2.145	15.8	26.4	NO		NO	bd
9	9 171227M2_10	Standard	12.500	5.09	3634.338	11862.702	3.830	28.2	125.6	NO		NO	bdX



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**Compound name: d3-N-MeFOSAA**

Response Factor: 0.408733

RRF SD: 0.0491611, Relative SD: 12.0277

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 171227M2_2	Standard	12.500	5.26	4963.580	10522.952	5.896	14.4	15.4	NO		NO	bb
2	2 171227M2_3	Standard	12.500	5.26	5539.444	13625.164	5.082	12.4	-0.5	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.26	5332.894	14650.646	4.550	11.1	-10.9	NO		NO	bd
4	4 171227M2_5	Standard	12.500	5.26	6130.912	15544.572	4.930	12.1	-3.5	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.26	4858.688	14786.616	4.107	10.0	-19.6	NO		NO	bb
6	6 171227M2_7	Standard	12.500	5.26	5008.923	13063.165	4.793	11.7	-6.2	NO		NO	bb
7	7 171227M2_8	Standard	12.500	5.26	5641.206	12088.432	5.833	14.3	14.2	NO		NO	bb
8	8 171227M2_9	Standard	12.500	5.26	5099.348	12668.264	5.032	12.3	-1.5	NO		NO	bb
9	9 171227M2_10	Standard	12.500	5.26	5086.673	11040.664	5.759	14.1	12.7	NO		NO	bb

**Compound name: d5-N-EtFOSAA**

Response Factor: 0.473718

RRF SD: 0.0488163, Relative SD: 10.3049

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 171227M2_2	Standard	12.500	5.41	5765.227	10522.952	6.848	14.5	15.7	NO		NO	bb
2	2 171227M2_3	Standard	12.500	5.41	5889.360	13625.164	5.403	11.4	-8.8	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.41	6991.896	14650.646	5.966	12.6	0.7	NO		NO	bb
4	4 171227M2_5	Standard	12.500	5.41	6313.761	15544.572	5.077	10.7	-14.3	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.41	6451.895	14786.616	5.454	11.5	-7.9	NO		NO	bd
6	6 171227M2_7	Standard	12.500	5.41	6152.865	13063.165	5.888	12.4	-0.6	NO		NO	bb
7	7 171227M2_8	Standard	12.500	5.41	6457.469	12088.432	6.677	14.1	12.8	NO		NO	bb
8	8 171227M2_9	Standard	12.500	5.41	6485.901	12668.264	6.400	13.5	8.1	NO		NO	bb
9	9 171227M2_10	Standard	12.500	5.41	4928.821	11040.664	5.580	11.8	-5.8	NO		NO	bb

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**Compound name: 13C2-PFUdA**

Response Factor: 0.928462

RRF SD: 0.123631, Relative SD: 13.3157

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 171227M2_2	Standard	12.500	5.43	11874.624	10522.952	14.106	15.2	21.5	NO		NO	bb
2	2 171227M2_3	Standard	12.500	5.43	11943.025	13625.164	10.957	11.8	-5.6	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.43	12096.048	14650.646	10.320	11.1	-11.1	NO		NO	bb
4	4 171227M2_5	Standard	12.500	5.43	11576.810	15544.572	9.309	10.0	-19.8	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.43	12204.513	14786.616	10.317	11.1	-11.1	NO		NO	bb
6	6 171227M2_7	Standard	12.500	5.43	11786.622	13063.165	11.278	12.1	-2.8	NO		NO	bd
7	7 171227M2_8	Standard	12.500	5.44	12370.035	12088.432	12.791	13.8	10.2	NO		NO	bb
8	8 171227M2_9	Standard	12.500	5.43	12881.869	12668.264	12.711	13.7	9.5	NO		NO	bb
9	9 171227M2_10	Standard	12.500	5.44	11183.854	11040.664	12.662	13.6	9.1	NO		NO	bb

**Compound name: 13C2-PFDoA**

Response Factor: 0.636121

RRF SD: 0.0670923, Relative SD: 10.5471

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 171227M2_2	Standard	12.500	5.71	8054.505	10522.952	9.568	15.0	20.3	NO		NO	bb
2	2 171227M2_3	Standard	12.500	5.70	8743.186	13625.164	8.021	12.6	0.9	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.70	8431.139	14650.646	7.193	11.3	-9.5	NO		NO	bb
4	4 171227M2_5	Standard	12.500	5.70	9103.854	15544.572	7.321	11.5	-7.9	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.70	8413.934	14786.616	7.113	11.2	-10.5	NO		NO	bb
6	6 171227M2_7	Standard	12.500	5.70	7956.292	13063.165	7.613	12.0	-4.3	NO		NO	bb
7	7 171227M2_8	Standard	12.500	5.70	8744.809	12088.432	9.043	14.2	13.7	NO		NO	bb
8	8 171227M2_9	Standard	12.500	5.70	7893.276	12668.264	7.788	12.2	-2.1	NO		NO	bb
9	9 171227M2_10	Standard	12.500	5.71	6980.643	11040.664	7.903	12.4	-0.6	NO		NO	bb

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**Compound name: d3-N-MeFOSA**

Response Factor: 0.111566

RRF SD: 0.015918, Relative SD: 14.2678

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 171227M2_2	Standard	150.000	5.88	17951.223	10522.952	21.324	191.1	27.4	NO		NO	bb
2	2 171227M2_3	Standard	150.000	5.88	16653.398	13625.164	15.278	136.9	-8.7	NO		NO	bb
3	3 171227M2_4	Standard	150.000	5.88	16891.504	14650.646	14.412	129.2	-13.9	NO		NO	bb
4	4 171227M2_5	Standard	150.000	5.88	17379.400	15544.572	13.975	125.3	-16.5	NO		NO	bb
5	5 171227M2_6	Standard	150.000	5.88	18111.424	14786.616	15.311	137.2	-8.5	NO		NO	bb
6	6 171227M2_7	Standard	150.000	5.88	17693.111	13063.165	16.930	151.8	1.2	NO		NO	bd
7	7 171227M2_8	Standard	150.000	5.88	16898.027	12088.432	17.473	156.6	4.4	NO		NO	bb
8	8 171227M2_9	Standard	150.000	5.88	16794.846	12668.264	16.572	148.5	-1.0	NO		NO	bb
9	9 171227M2_10	Standard	150.000	5.88	17080.729	11040.664	19.338	173.3	15.6	NO		NO	bb

**Compound name: 13C2-PFTeDA**

Response Factor: 0.162701

RRF SD: 0.0324795, Relative SD: 19.9628

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 171227M2_2	Standard	12.500	6.16	2234.556	10522.952	2.654	16.3	30.5	NO		NO	MMX
2	2 171227M2_3	Standard	12.500	6.16	2124.994	13625.164	1.950	12.0	-4.1	NO		NO	bb
3	3 171227M2_4	Standard	12.500	6.16	2146.656	14650.646	1.832	11.3	-9.9	NO		NO	bb
4	4 171227M2_5	Standard	12.500	6.16	1846.036	15544.572	1.484	9.1	-27.0	NO		NO	MM
5	5 171227M2_6	Standard	12.500	6.16	2216.522	14786.616	1.874	11.5	-7.9	NO		NO	bb
6	6 171227M2_7	Standard	12.500	6.15	2338.622	13063.165	2.238	13.8	10.0	NO		NO	MM
7	7 171227M2_8	Standard	12.500	6.16	2697.390	12088.432	2.789	17.1	37.1	NO		NO	MM
8	8 171227M2_9	Standard	12.500	6.15	2097.857	12668.264	2.070	12.7	1.8	NO		NO	bb
9	9 171227M2_10	Standard	12.500	6.16	2847.631	11040.664	3.224	19.8	58.5	NO		NO	bbX

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**Compound name: d5-N-ETFOSA**

Response Factor: 0.169565

RRF SD: 0.0203335, Relative SD: 11.9916

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 171227M2_2	Standard	150.000	6.24	26271.311	10522.952	31.207	184.0	22.7	NO		NO	bb
2	2 171227M2_3	Standard	150.000	6.24	25612.781	13625.164	23.498	138.6	-7.6	NO		NO	bb
3	3 171227M2_4	Standard	150.000	6.24	27238.842	14650.646	23.240	137.1	-8.6	NO		NO	bb
4	4 171227M2_5	Standard	150.000	6.23	26307.252	15544.572	21.155	124.8	-16.8	NO		NO	bb
5	5 171227M2_6	Standard	150.000	6.24	27591.568	14786.616	23.325	137.6	-8.3	NO		NO	bb
6	6 171227M2_7	Standard	150.000	6.24	26260.840	13063.165	25.129	148.2	-1.2	NO		NO	bb
7	7 171227M2_8	Standard	150.000	6.24	26899.170	12088.432	27.815	164.0	9.4	NO		NO	bb
8	8 171227M2_9	Standard	150.000	6.23	26665.355	12668.264	26.311	155.2	3.4	NO		NO	bb
9	9 171227M2_10	Standard	150.000	6.24	24053.830	11040.664	27.233	160.6	7.1	NO		NO	bb

**Compound name: 13C2-PFHxDA**

Response Factor: 0.39388

RRF SD: 0.0587481, Relative SD: 14.9152

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 171227M2_2	Standard	5.000	6.47	2174.156	10522.952	2.583	6.6	31.1	NO		NO	bb
2	2 171227M2_3	Standard	5.000	6.47	2237.443	13625.164	2.053	5.2	4.2	NO		NO	bb
3	3 171227M2_4	Standard	5.000	6.47	2126.996	14650.646	1.815	4.6	-7.9	NO		NO	bb
4	4 171227M2_5	Standard	5.000	6.47	2023.093	15544.572	1.627	4.1	-17.4	NO		NO	bb
5	5 171227M2_6	Standard	5.000	6.47	2095.904	14786.616	1.772	4.5	-10.0	NO		NO	bb
6	6 171227M2_7	Standard	5.000	6.47	1887.999	13063.165	1.807	4.6	-8.3	NO		NO	bb
7	7 171227M2_8	Standard	5.000	6.47	2006.273	12088.432	2.075	5.3	5.3	NO		NO	bb
8	8 171227M2_9	Standard	5.000	6.47	2052.555	12668.264	2.025	5.1	2.8	NO		NO	bb
9	9 171227M2_10	Standard	5.000	6.47	2528.415	11040.664	2.863	7.3	45.4	NO		NO	bbX

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**Compound name: d7-N-MeFOSE**

Response Factor: 0.148451

RRF SD: 0.0224588, Relative SD: 15.1288

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	171227M2_2	Standard	150.000	6.31	23424.840	10522.952	27.826	187.4	25.0	NO		NO	bd
2	171227M2_3	Standard	150.000	6.31	21551.338	13625.164	19.772	133.2	-11.2	NO		NO	bd
3	171227M2_4	Standard	150.000	6.31	21977.563	14650.646	18.751	126.3	-15.8	NO		NO	bd
4	171227M2_5	Standard	150.000	6.31	23542.486	15544.572	18.931	127.5	-15.0	NO		NO	bb
5	171227M2_6	Standard	150.000	6.31	24058.156	14786.616	20.338	137.0	-8.7	NO		NO	bb
6	171227M2_7	Standard	150.000	6.31	22955.393	13063.165	21.966	148.0	-1.4	NO		NO	bb
7	171227M2_8	Standard	150.000	6.31	22730.518	12088.432	23.504	158.3	5.6	NO		NO	bb
8	171227M2_9	Standard	150.000	6.31	22370.564	12668.264	22.073	148.7	-0.9	NO		NO	bb
9	171227M2_10	Standard	150.000	6.31	24065.676	11040.664	27.247	183.5	22.4	NO		NO	bb

**Compound name: d9-N-EtFOSE**

Response Factor: 0.153905

RRF SD: 0.0230653, Relative SD: 14.9867

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	171227M2_2	Standard	150.000	6.46	23821.568	10522.952	28.297	183.9	22.6	NO		NO	bb
2	171227M2_3	Standard	150.000	6.46	22501.572	13625.164	20.643	134.1	-10.6	NO		NO	bd
3	171227M2_4	Standard	150.000	6.46	23379.631	14650.646	19.948	129.6	-13.6	NO		NO	bb
4	171227M2_5	Standard	150.000	6.46	26375.297	15544.572	21.209	137.8	-8.1	NO		NO	bb
5	171227M2_6	Standard	150.000	6.46	28445.939	14786.616	24.047	156.2	4.2	NO		NO	bd
6	171227M2_7	Standard	150.000	6.46	22042.639	13063.165	21.092	137.0	-8.6	NO		NO	bb
7	171227M2_8	Standard	150.000	6.46	25817.605	12088.432	26.697	173.5	15.6	NO		NO	bd
8	171227M2_9	Standard	150.000	6.46	19219.795	12668.264	18.965	123.2	-17.9	NO		NO	bb
9	171227M2_10	Standard	150.000	6.46	23736.309	11040.664	26.874	174.6	16.4	NO		NO	bd

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**Compound name: 13C4-PFBA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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 171227M2_2	Standard	12.500	1.51	11266.789	11266.789	12.500	12.5	0.0	NO		NO	bb
2	2 171227M2_3	Standard	12.500	1.52	11474.547	11474.547	12.500	12.5	0.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	1.52	11800.232	11800.232	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	1.52	11773.504	11773.504	12.500	12.5	0.0	NO		NO	bb
5	5 171227M2_6	Standard	12.500	1.52	12782.838	12782.838	12.500	12.5	0.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	1.52	12197.028	12197.028	12.500	12.5	0.0	NO		NO	bb
7	7 171227M2_8	Standard	12.500	1.52	12250.466	12250.466	12.500	12.5	0.0	NO		NO	bb
8	8 171227M2_9	Standard	12.500	1.52	12006.595	12006.595	12.500	12.5	0.0	NO		NO	bb
9	9 171227M2_10	Standard	12.500	1.52	11837.236	11837.236	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 171227M2_2	Standard	12.500	3.23	13336.426	13336.426	12.500	12.5	0.0	NO		NO	bb
2	2 171227M2_3	Standard	12.500	3.23	13355.194	13355.194	12.500	12.5	0.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	3.23	14296.511	14296.511	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	3.23	12722.052	12722.052	12.500	12.5	0.0	NO		NO	bd
5	5 171227M2_6	Standard	12.500	3.23	15057.541	15057.541	12.500	12.5	0.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	3.23	14190.524	14190.524	12.500	12.5	0.0	NO		NO	bb
7	7 171227M2_8	Standard	12.500	3.23	12244.098	12244.098	12.500	12.5	0.0	NO		NO	bd
8	8 171227M2_9	Standard	12.500	3.23	13133.470	13133.470	12.500	12.5	0.0	NO		NO	bd
9	9 171227M2_10	Standard	12.500	3.23	11862.702	11862.702	12.500	12.5	0.0	NO		NO	bd

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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 171227M2_2	Standard	12.500	3.98	3915.972	3915.972	12.500	12.5	0.0	NO		NO	bd
2	2 171227M2_3	Standard	12.500	3.98	3250.903	3250.903	12.500	12.5	0.0	NO		NO	bd
3	3 171227M2_4	Standard	12.500	3.98	4190.863	4190.863	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	3.98	3669.464	3669.464	12.500	12.5	0.0	NO		NO	bb
5	5 171227M2_6	Standard	12.500	3.98	3437.959	3437.959	12.500	12.5	0.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	3.98	3707.999	3707.999	12.500	12.5	0.0	NO		NO	bd
7	7 171227M2_8	Standard	12.500	3.98	3628.547	3628.547	12.500	12.5	0.0	NO		NO	bb
8	8 171227M2_9	Standard	12.500	3.98	3364.836	3364.836	12.500	12.5	0.0	NO		NO	bd
9	9 171227M2_10	Standard	12.500	3.98	3375.579	3375.579	12.500	12.5	0.0	NO		NO	bd

**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 171227M2_2	Standard	12.500	4.34	15017.985	15017.985	12.500	12.5	0.0	NO		NO	bd
2	2 171227M2_3	Standard	12.500	4.33	13305.198	13305.198	12.500	12.5	0.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	4.34	13841.206	13841.206	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.34	14312.646	14312.646	12.500	12.5	0.0	NO		NO	bb
5	5 171227M2_6	Standard	12.500	4.33	15421.653	15421.653	12.500	12.5	0.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	4.34	12414.578	12414.578	12.500	12.5	0.0	NO		NO	bd
7	7 171227M2_8	Standard	12.500	4.34	14661.149	14661.149	12.500	12.5	0.0	NO		NO	bb
8	8 171227M2_9	Standard	12.500	4.33	13534.527	13534.527	12.500	12.5	0.0	NO		NO	bd
9	9 171227M2_10	Standard	12.500	4.34	13276.432	13276.432	12.500	12.5	0.0	NO		NO	bb

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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 171227M2_2	Standard	12.500	4.76	11712.082	11712.082	12.500	12.5	0.0	NO		NO	bb
2	2 171227M2_3	Standard	12.500	4.76	12763.171	12763.171	12.500	12.5	0.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	4.76	14679.309	14679.309	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.76	12778.089	12778.089	12.500	12.5	0.0	NO		NO	bb
5	5 171227M2_6	Standard	12.500	4.76	11391.607	11391.607	12.500	12.5	0.0	NO		NO	bd
6	6 171227M2_7	Standard	12.500	4.76	12021.911	12021.911	12.500	12.5	0.0	NO		NO	bb
7	7 171227M2_8	Standard	12.500	4.76	11376.679	11376.679	12.500	12.5	0.0	NO		NO	bb
8	8 171227M2_9	Standard	12.500	4.76	10376.387	10376.387	12.500	12.5	0.0	NO		NO	bb
9	9 171227M2_10	Standard	12.500	4.76	10504.468	10504.468	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 171227M2_2	Standard	12.500	4.84	3416.256	3416.256	12.500	12.5	0.0	NO		NO	bb
2	2 171227M2_3	Standard	12.500	4.83	3020.019	3020.019	12.500	12.5	0.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	4.84	3631.896	3631.896	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	4.83	3899.005	3899.005	12.500	12.5	0.0	NO		NO	bb
5	5 171227M2_6	Standard	12.500	4.83	3700.067	3700.067	12.500	12.5	0.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	4.84	3942.271	3942.271	12.500	12.5	0.0	NO		NO	bb
7	7 171227M2_8	Standard	12.500	4.84	4023.819	4023.819	12.500	12.5	0.0	NO		NO	bb
8	8 171227M2_9	Standard	12.500	4.83	3621.847	3621.847	12.500	12.5	0.0	NO		NO	bb
9	9 171227M2_10	Standard	12.500	4.84	3832.320	3832.320	12.500	12.5	0.0	NO		NO	bb



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**Compound name: 13C6-PFDA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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 171227M2_2	Standard	12.500	5.12	9868.478	9868.478	12.500	12.5	0.0	NO		NO	bb
2	2 171227M2_3	Standard	12.500	5.12	11925.573	11925.573	12.500	12.5	0.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.12	12082.603	12082.603	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	5.12	12878.628	12878.628	12.500	12.5	0.0	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.12	11278.664	11278.664	12.500	12.5	0.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	5.12	10129.650	10129.650	12.500	12.5	0.0	NO		NO	bb
7	7 171227M2_8	Standard	12.500	5.12	12265.921	12265.921	12.500	12.5	0.0	NO		NO	bb
8	8 171227M2_9	Standard	12.500	5.12	11542.679	11542.679	12.500	12.5	0.0	NO		NO	bb
9	9 171227M2_10	Standard	12.500	5.12	9211.848	9211.848	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C7-PFUdA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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 171227M2_2	Standard	12.500	5.43	10522.952	10522.952	12.500	12.5	0.0	NO		NO	bd
2	2 171227M2_3	Standard	12.500	5.43	13625.164	13625.164	12.500	12.5	0.0	NO		NO	bb
3	3 171227M2_4	Standard	12.500	5.43	14650.646	14650.646	12.500	12.5	0.0	NO		NO	bb
4	4 171227M2_5	Standard	12.500	5.43	15544.572	15544.572	12.500	12.5	0.0	NO		NO	bb
5	5 171227M2_6	Standard	12.500	5.43	14786.616	14786.616	12.500	12.5	0.0	NO		NO	bb
6	6 171227M2_7	Standard	12.500	5.43	13063.165	13063.165	12.500	12.5	0.0	NO		NO	bb
7	7 171227M2_8	Standard	12.500	5.43	12088.432	12088.432	12.500	12.5	0.0	NO		NO	bd
8	8 171227M2_9	Standard	12.500	5.43	12668.264	12668.264	12.500	12.5	0.0	NO		NO	bb
9	9 171227M2_10	Standard	12.500	5.43	11040.664	11040.664	12.500	12.5	0.0	NO		NO	bd

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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 28 Dec 2017 08:41:53

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171227M2\_2, Date: 27-Dec-2017, Time: 17:36:41, ID: ST171227M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9994	NO	
2	2 PFPeA	0.9981	NO	
3	3 PFBS	0.9927	NO	
4	4 PFHxA	0.9950	NO	
5	5 PFHpA	0.9989	NO	
6	6 L-PFHxS	0.9986	NO	
7	8 6:2 FTS	0.9989	NO	
8	9 L-PFOA	0.9972	NO	
9	11 PFHpS	0.9996	NO	
10	12 PFNA	0.9990	NO	
11	13 PFOSA	0.9994	NO	
12	14 L-PFOS	0.9960	NO	
13	16 PFDA	0.9978	NO	
14	17 8:2 FTS	0.9968	NO	
15	18 N-MeFOSAA	0.9980	NO	
16	19 N-EtFOSAA	0.9970	NO	
17	20 PFUdA	0.9970	NO	
18	21 PFDS	0.9951	NO	
19	22 PFDoA	0.9990	NO	
20	23 N-MeFOSA	0.9972	NO	
21	24 PFTrDA	0.9921	NO	
22	25 PFTeDA	0.9964	NO	
23	26 N-EtFOSA	0.9997	NO	
24	27 PFHxDA	0.9986	NO	
25	28 PFODA	0.9949	NO	
26	29 N-MeFOSE	0.9985	NO	
27	30 N-EtFOSE	0.9935	NO	
28	31 13C3-PFBA		NO	3.726
29	32 13C3-PFPeA		NO	6.620
30	33 13C3-PFBS		NO	10.610
31	34 13C2-PFHxA		NO	6.005

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Name: 171227M2\_2, Date: 27-Dec-2017, Time: 17:36:41, ID: ST171227M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
32	35 13C4-PFHpA		NO	10.772
33	36 18O2-PFHxS		NO	10.517
34	37 13C2-6:2 FTS		NO	14.940
35	38 13C2-PFOA		NO	7.187
36	39 13C5-PFNA		NO	9.474
37	40 13C8-PFOSA		NO	13.150
38	41 13C8-PFOS		NO	14.772
39	42 13C2-PFDA		NO	10.798
40	43 13C2-8:2 FTS		NO	24.223
41	44 d3-N-MeFOSAA		NO	12.028
42	45 d5-N-ETFOSAA		NO	10.305
43	46 13C2-PFUdA		NO	13.316
44	47 13C2-PFDoA		NO	10.547
45	48 d3-N-MeFOSA		NO	14.268
46	49 13C2-PFTeDA		NO	19.963
47	50 d5-N-ETFOSA		NO	11.992
48	51 13C2-PFHxDA		NO	14.915
49	52 d7-N-MeFOSE		NO	15.129
50	53 d9-N-ETFOSE		NO	14.987
51	54 13C4-PFBA		NO	0.000
52	55 13C5-PFHxA		NO	0.000
53	56 13C3-PFHxS		NO	0.000
54	57 13C8-PFOA		NO	0.000
55	58 13C9-PFNA		NO	0.000
56	59 13C4-PFOS		NO	0.000
57	60 13C6-PFDA		NO	0.000
58	61 13C7-PFUdA		NO	0.000

not used. AC 12/28/17

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Last Altered: Thursday, December 28, 2017 11:32:53 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:34:14 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 11:09:15  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Compound name: PFBA

	Name	ID	Acq Date	Acq Time
1	171227M2_1	IPA	27-Dec-17	17:25:22
2	171227M2_2	ST171227M2-1 PFC CS-2 17L2606	27-Dec-17	17:36:41
3	171227M2_3	ST171227M2-2 PFC CS-1 17L2607	27-Dec-17	17:47:52
4	171227M2_4	ST171227M2-3 PFC CS0 17L2608	27-Dec-17	17:59:02
5	171227M2_5	ST171227M2-4 PFC CS1 17L2609	27-Dec-17	18:10:13
6	171227M2_6	ST171227M2-5 PFC CS2 17L2610	27-Dec-17	18:21:24
7	171227M2_7	ST171227M2-6 PFC CS3 17L2611	27-Dec-17	18:32:34
8	171227M2_8	ST171227M2-7 PFC CS4 17L2612	27-Dec-17	18:43:45
9	171227M2_9	ST171227M2-8 PFC CS5 17L2613	27-Dec-17	18:54:55
10	171227M2_10	ST171227M2-9 PFC CS6 17L2710	27-Dec-17	19:06:06
11	171227M2_11	ST171227M2-10 PFC CS7 17L1804	27-Dec-17	19:17:17
12	171227M2_12	IPA	27-Dec-17	19:28:28
13	171227M2_13	ICV171227M2-1 PFC ICV 17L2605	27-Dec-17	19:39:38
14	171227M2_14	IPA	27-Dec-17	19:50:49

Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 28 Dec 2017 08:41:53

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

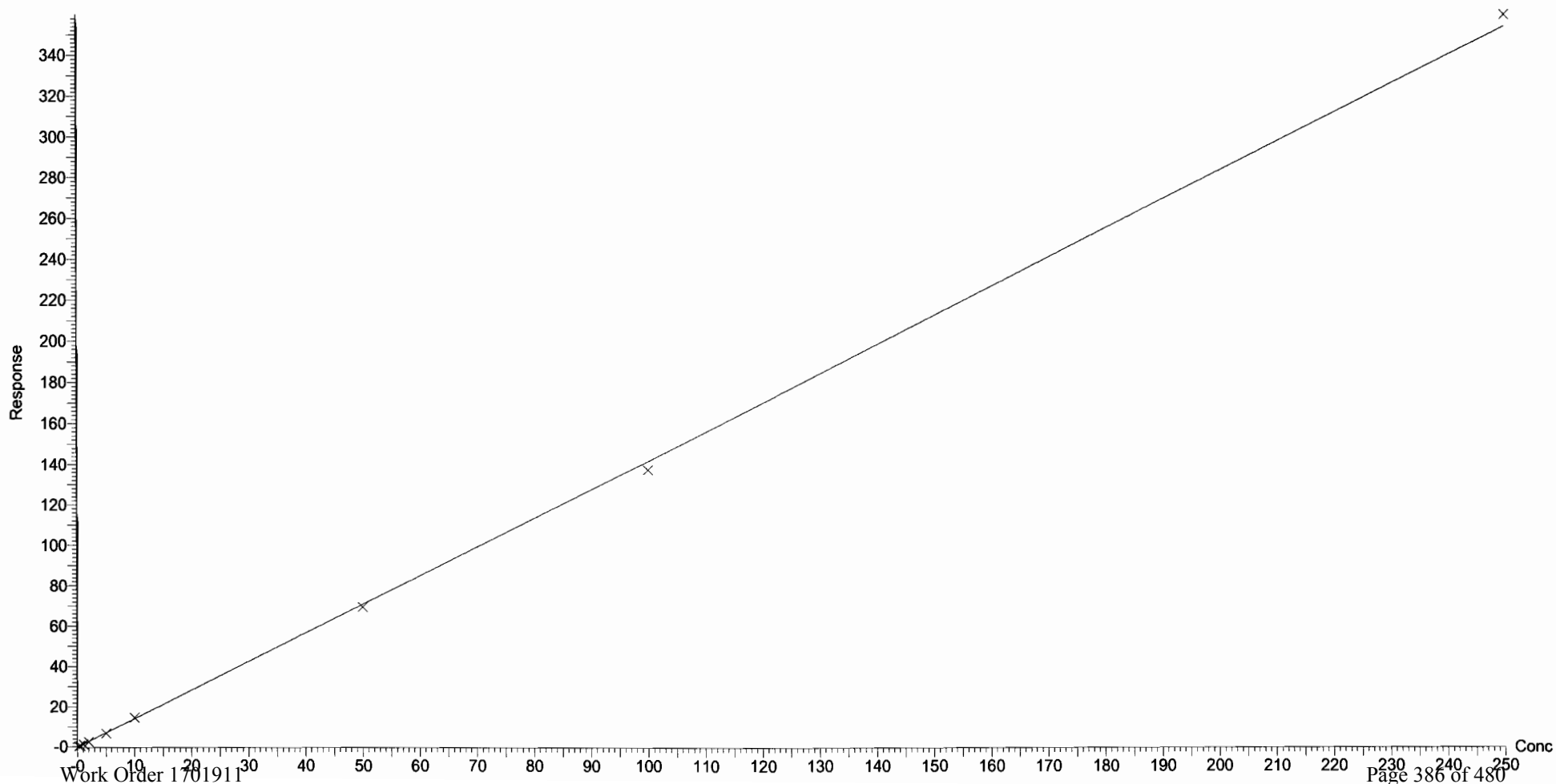
Compound name: PFBA

Correlation coefficient:  $r = 0.999714$ ,  $r^2 = 0.999428$

Calibration curve:  $1.41688 * x + -0.0844562$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

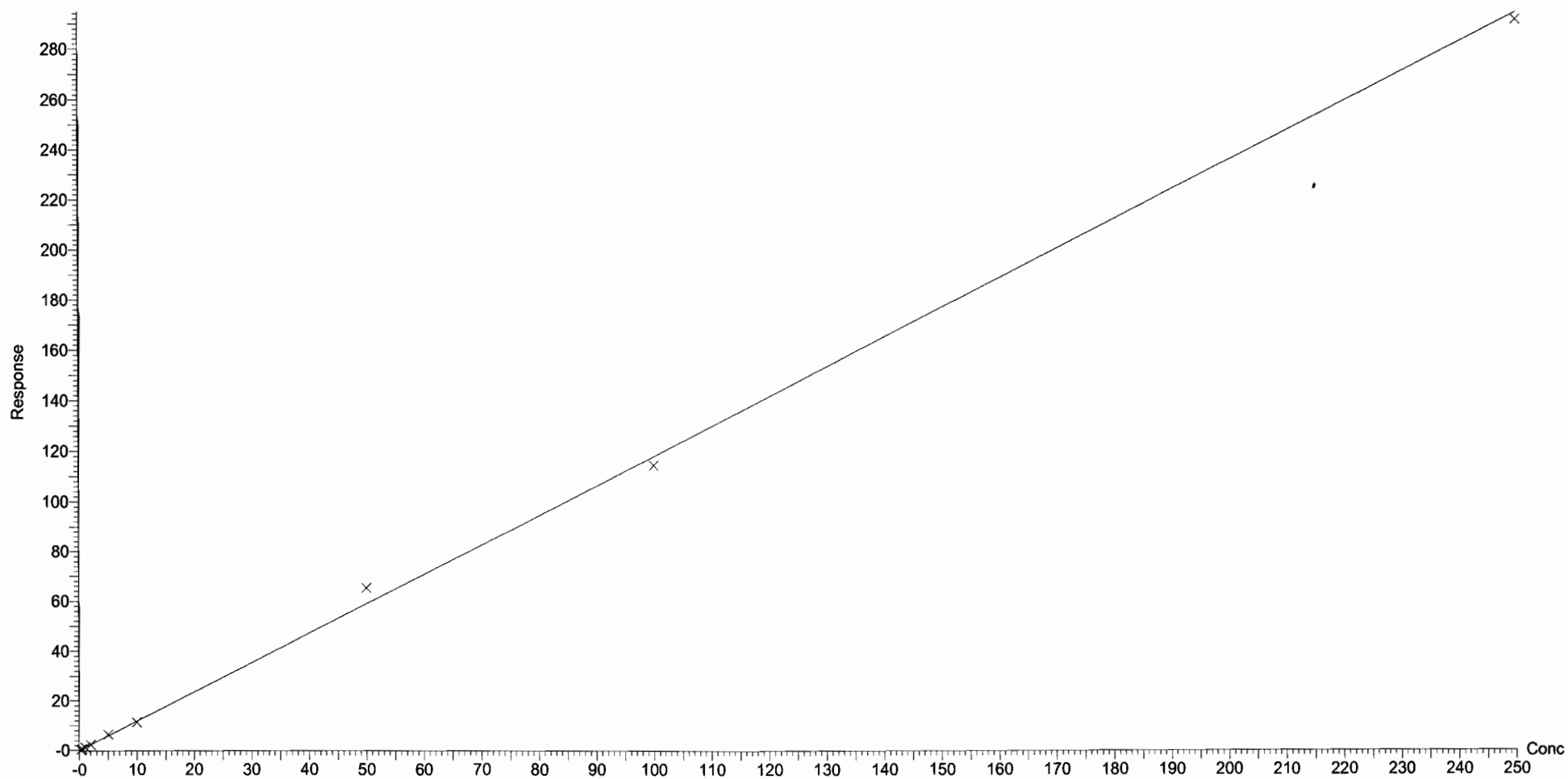
Compound name: PFPeA

Correlation coefficient:  $r = 0.999071$ ,  $r^2 = 0.998143$

Calibration curve:  $1.17898 * x + -0.0138581$

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

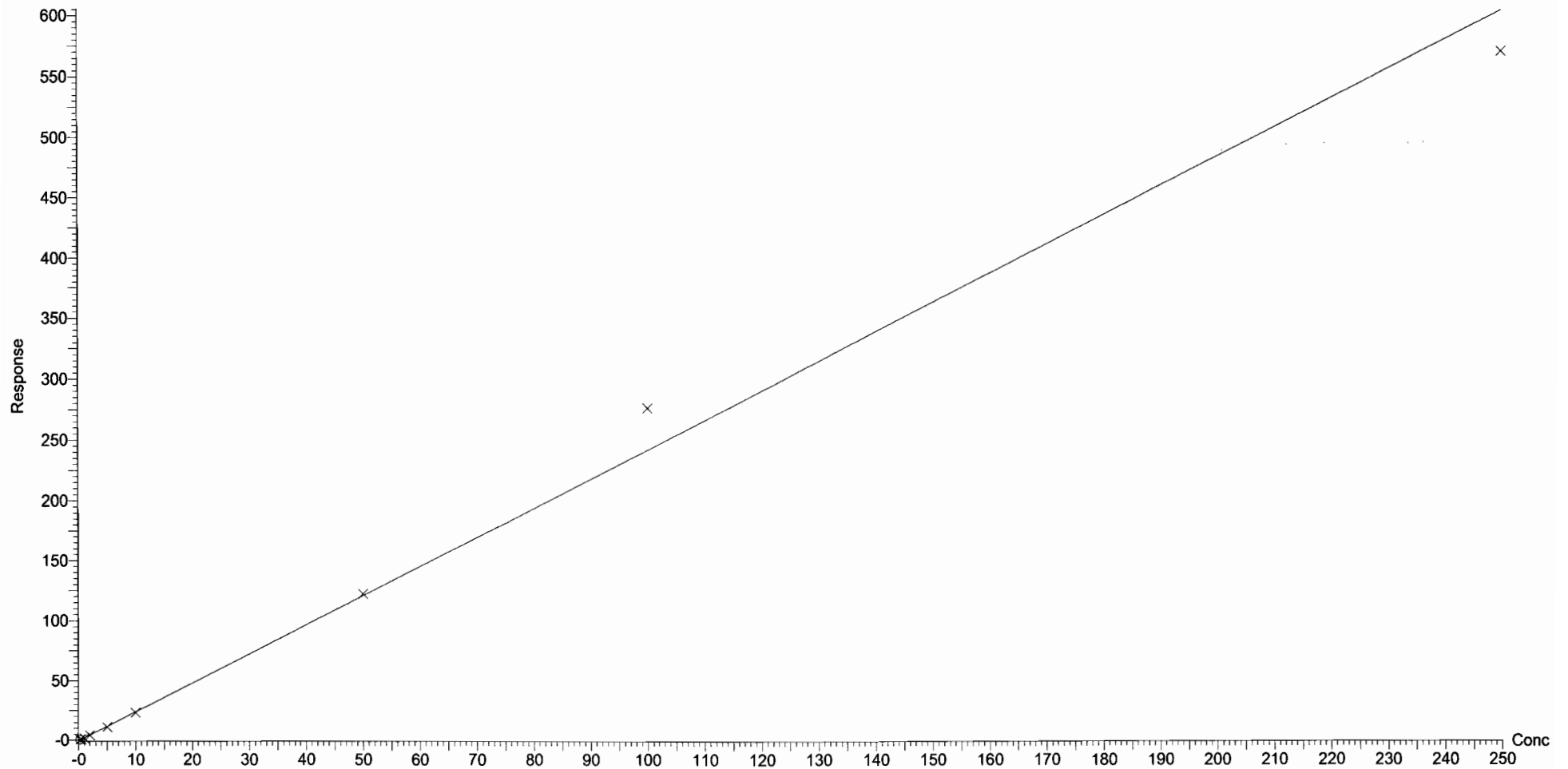
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

Compound name: PFBS  
Correlation coefficient:  $r = 0.996361$ ,  $r^2 = 0.992735$   
Calibration curve:  $2.42453 * x + -0.525381$   
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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

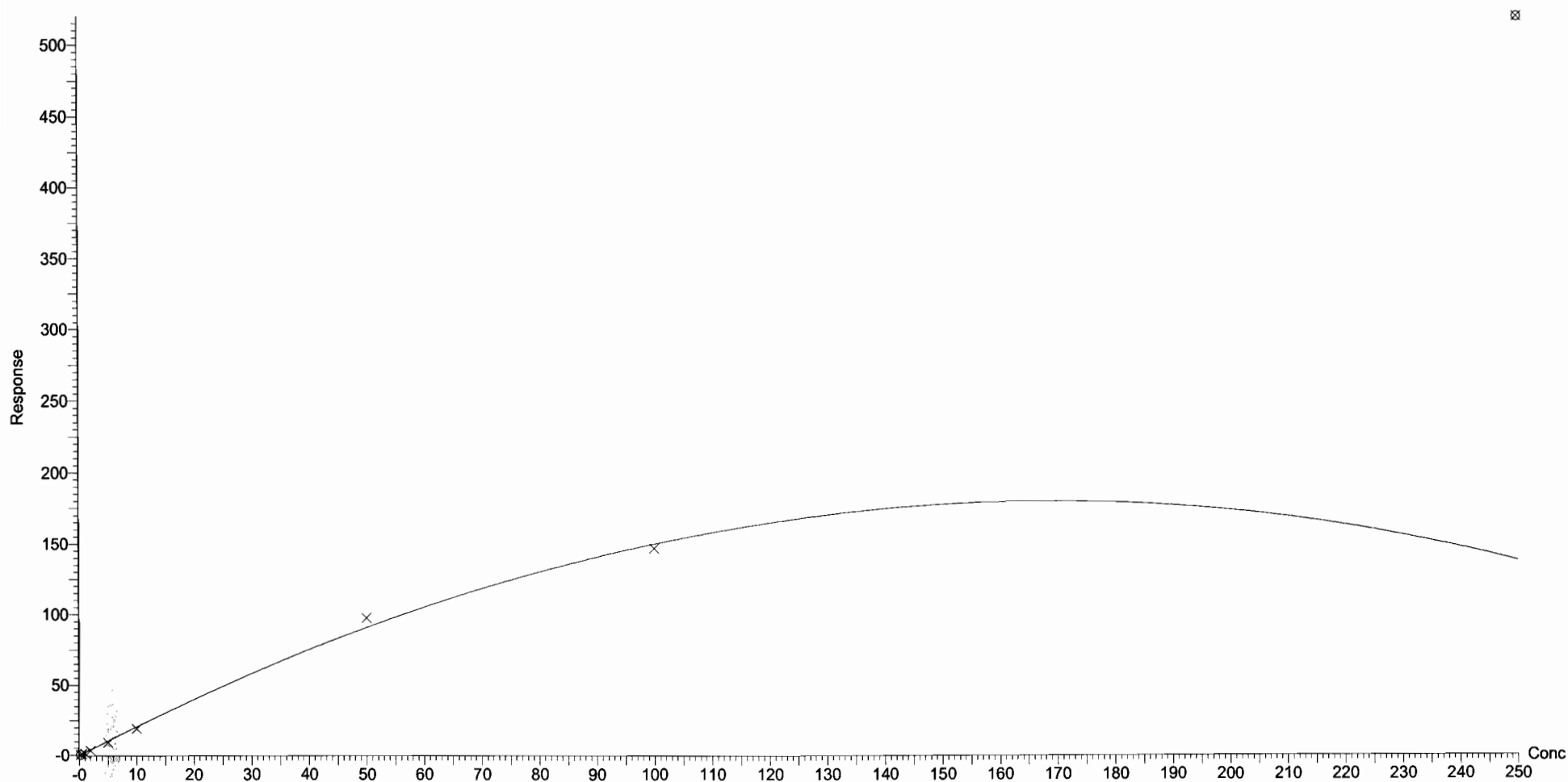
Compound name: PFHxA

Coefficient of Determination:  $R^2 = 0.994958$

Calibration curve:  $-0.00634236 * x^2 + 2.1363 * x + -0.390389$

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

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

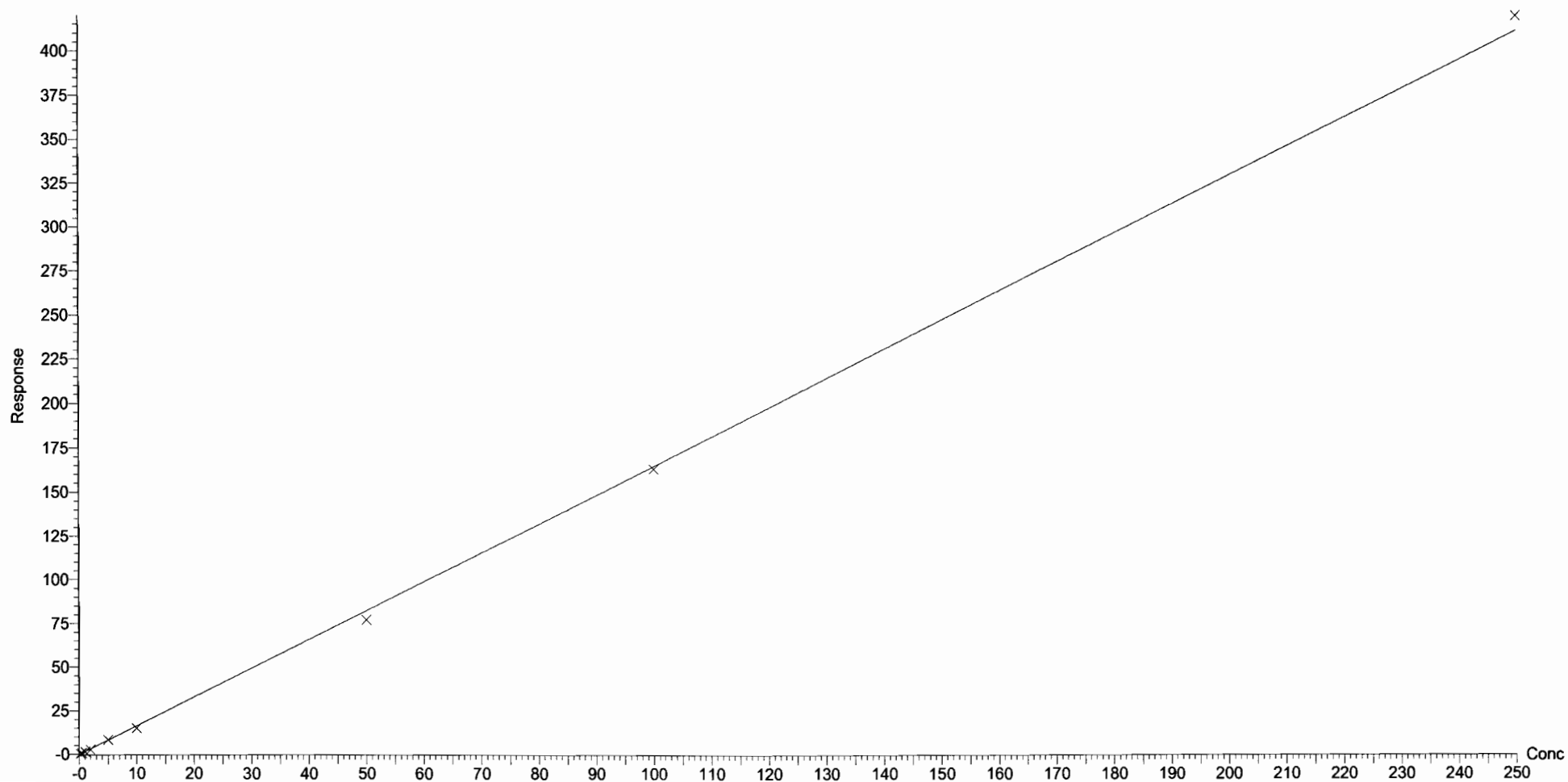




Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

Compound name: PFHpA  
Correlation coefficient:  $r = 0.999445$ ,  $r^2 = 0.998890$   
Calibration curve:  $1.64689 * x + -0.0913929$   
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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

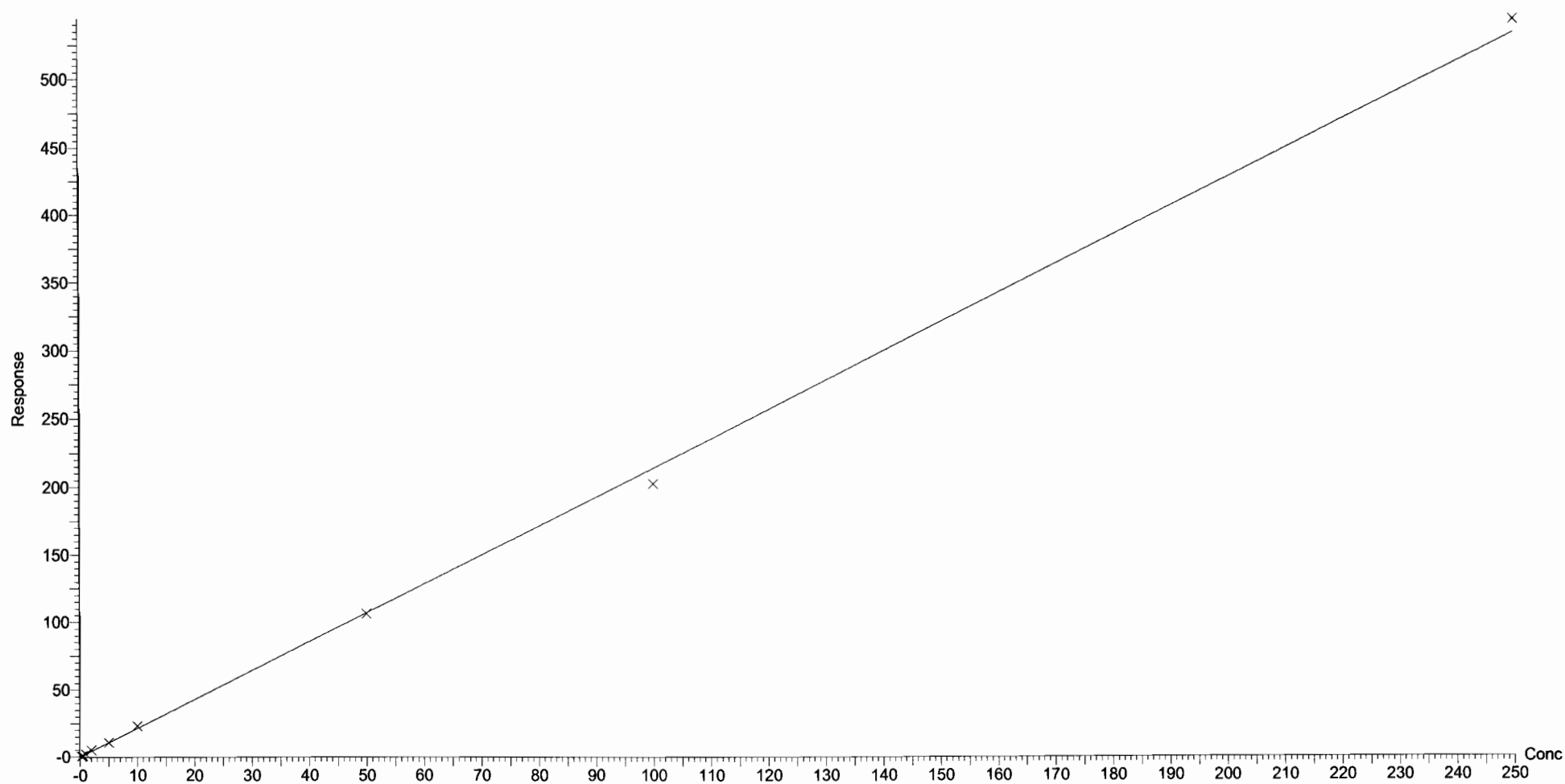
Compound name: L-PFHxS

Correlation coefficient:  $r = 0.999319$ ,  $r^2 = 0.998639$

Calibration curve:  $2.13865 * x + -0.0855212$

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

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



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

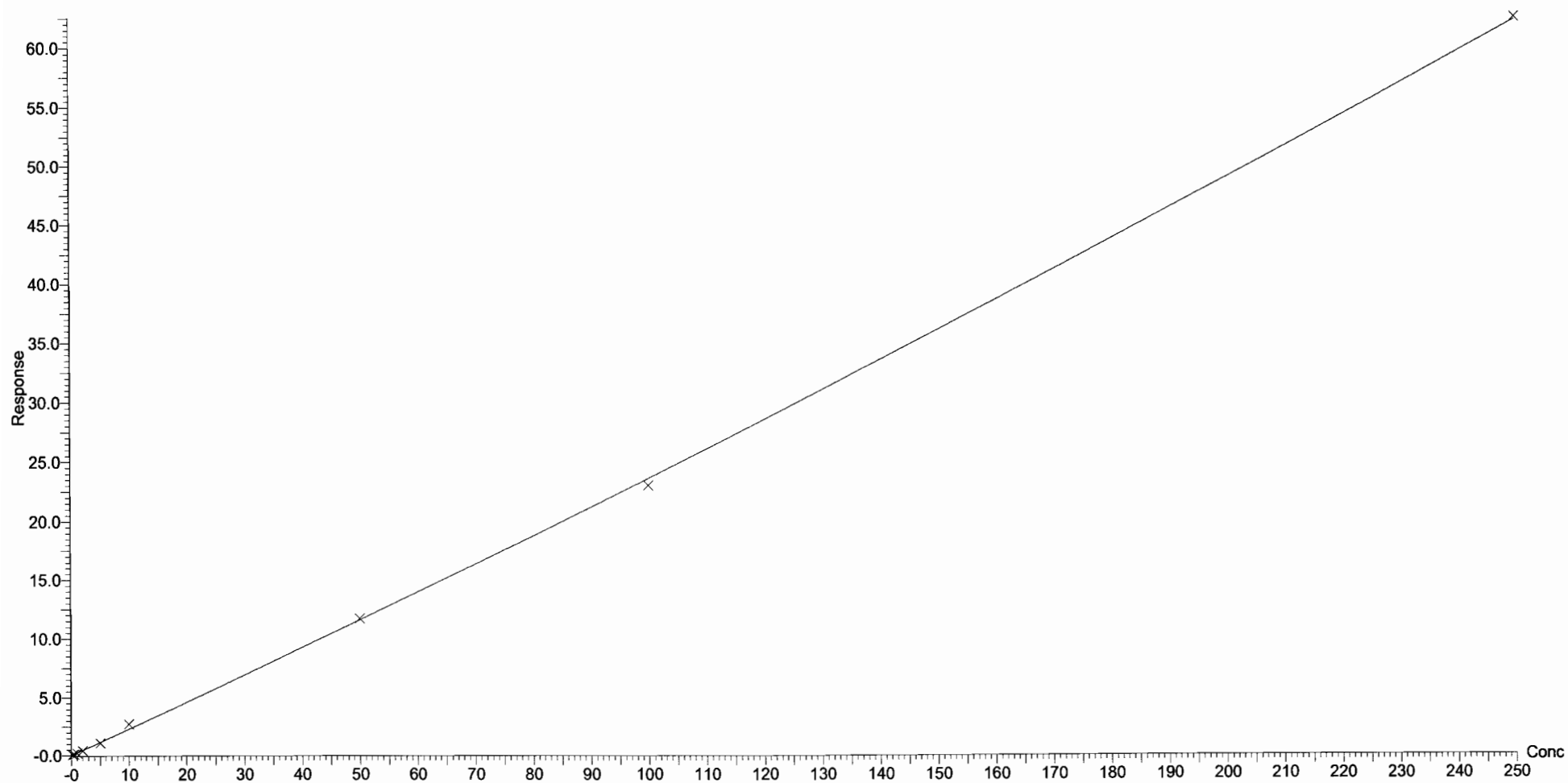
Compound name: 6:2 FTS

Coefficient of Determination:  $R^2 = 0.998918$

Calibration curve:  $8.87912e-005 * x^2 + 0.22705 * x + 0.0173879$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

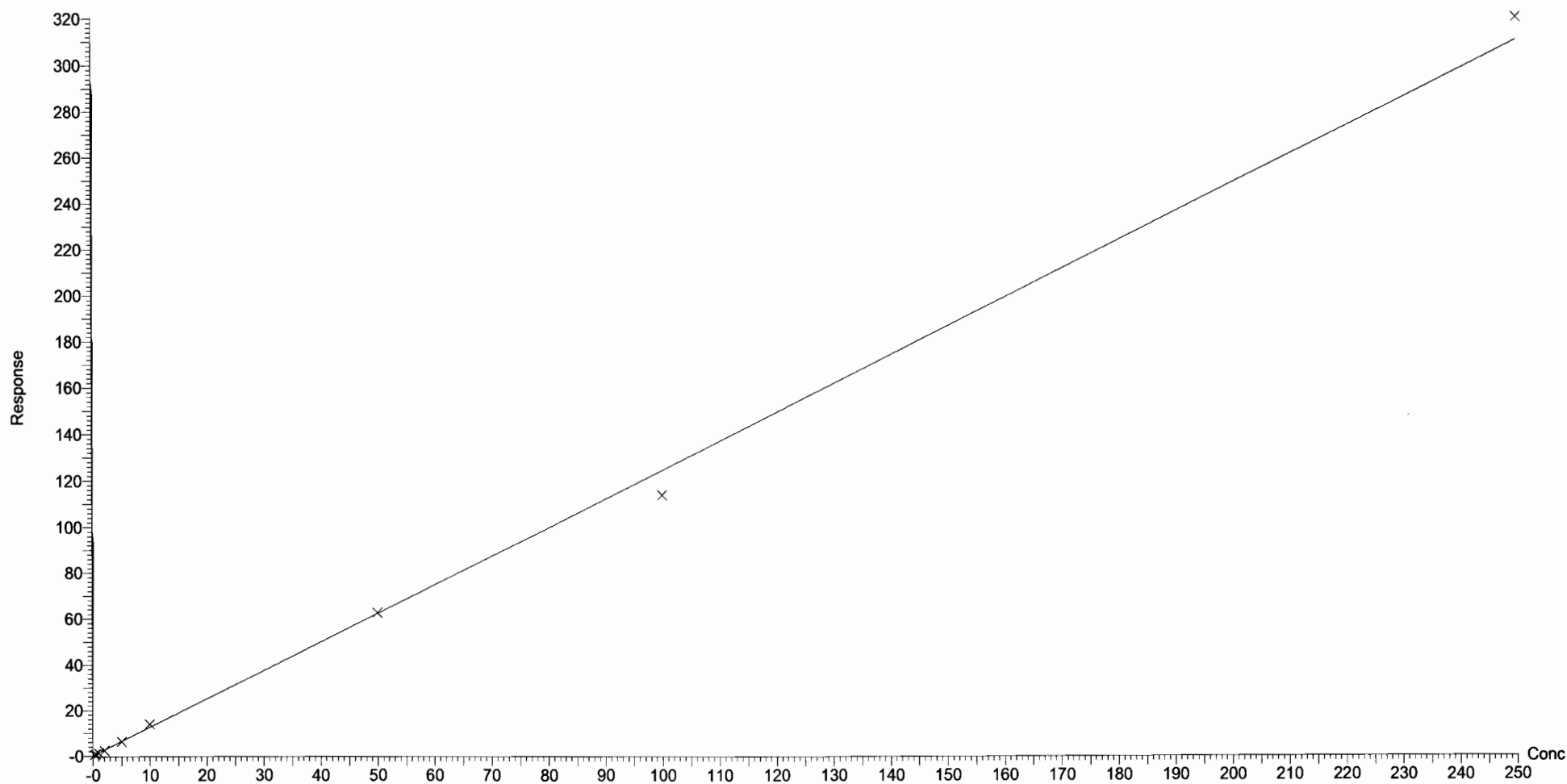
Compound name: L-PFOA

Correlation coefficient:  $r = 0.998602$ ,  $r^2 = 0.997206$

Calibration curve:  $1.24231 * x + 0.274251$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

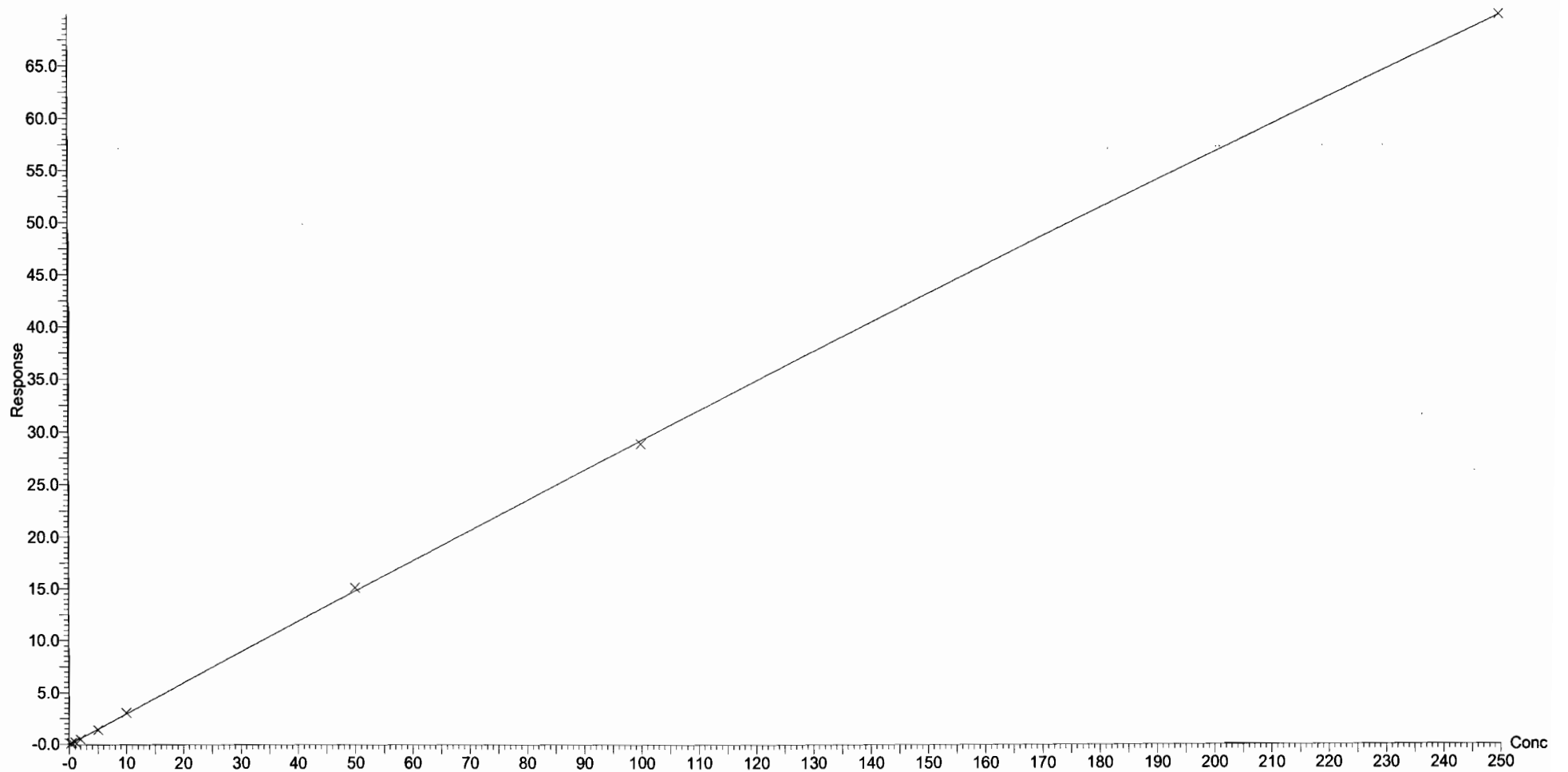
Compound name: PFHpS

Coefficient of Determination:  $R^2 = 0.999640$

Calibration curve:  $-8.23107e-005 * x^2 + 0.300027 * x + -0.0487822$

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

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

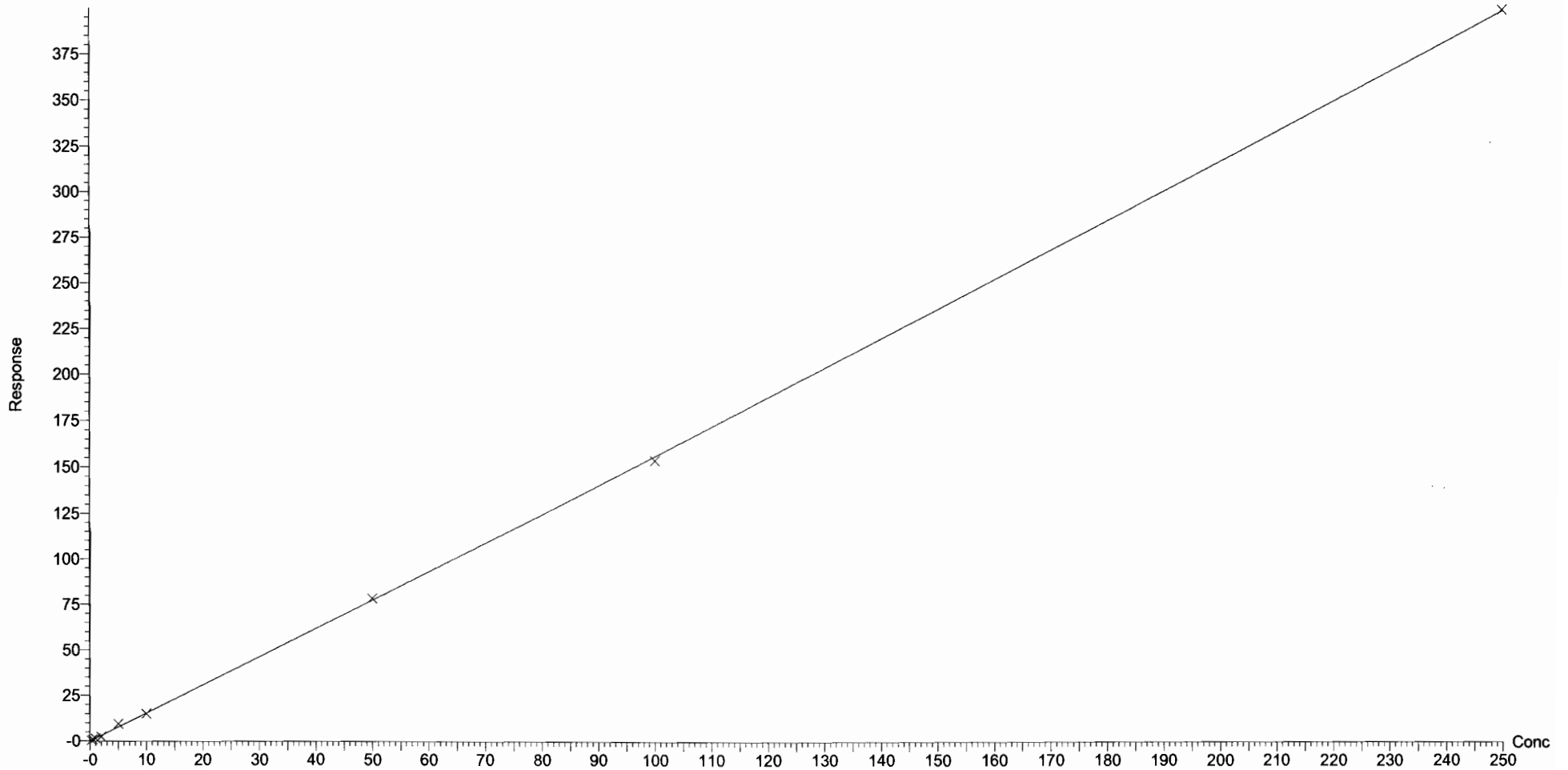


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

Compound name: PFNA  
Coefficient of Determination:  $R^2 = 0.999012$   
Calibration curve:  $0.000248018 * x^2 + 1.53471 * x + -0.0129473$   
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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

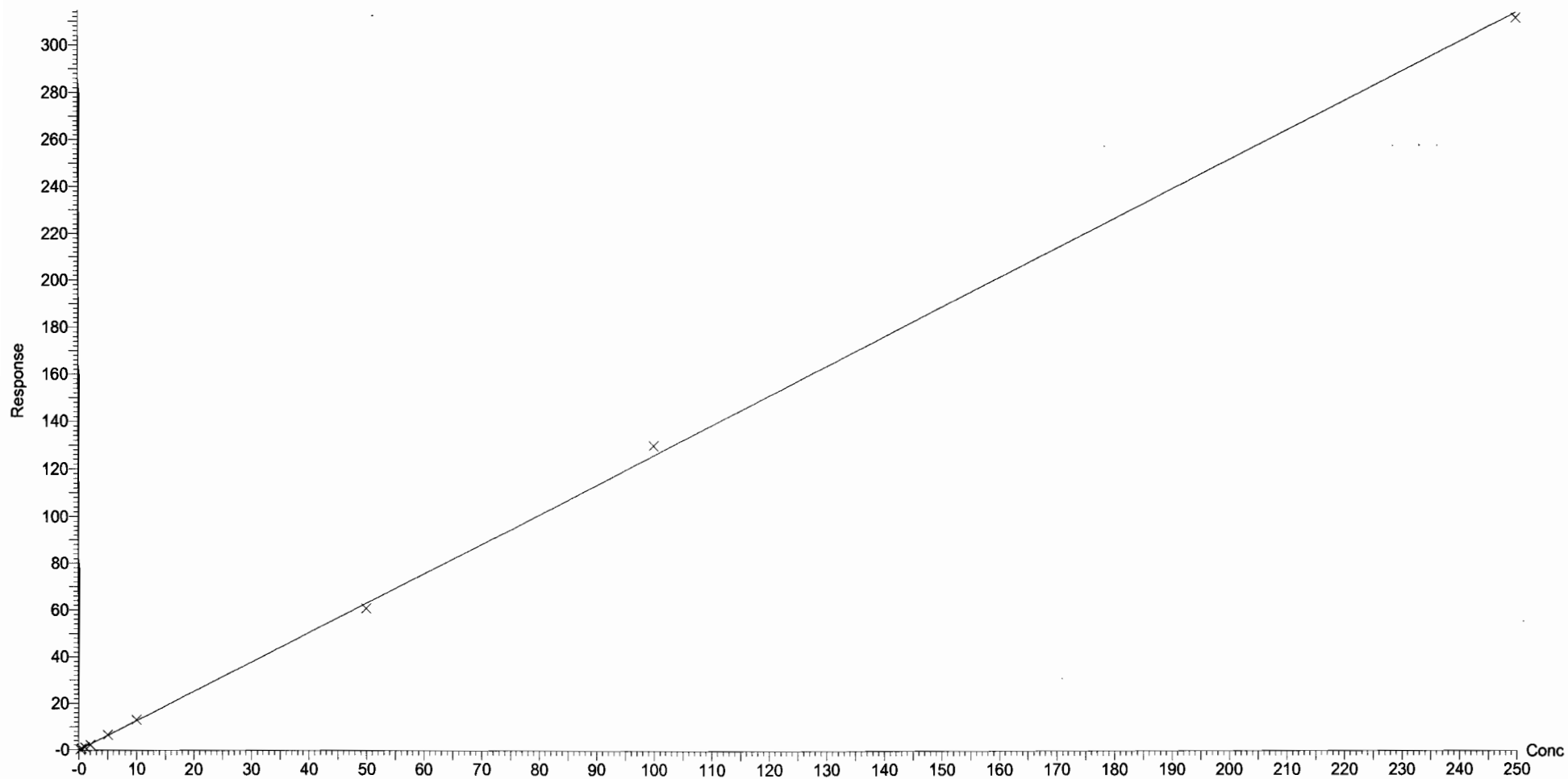
Compound name: PFOSA

Correlation coefficient:  $r = 0.999701$ ,  $r^2 = 0.999402$

Calibration curve:  $1.2583 * x + -0.0765078$

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

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



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

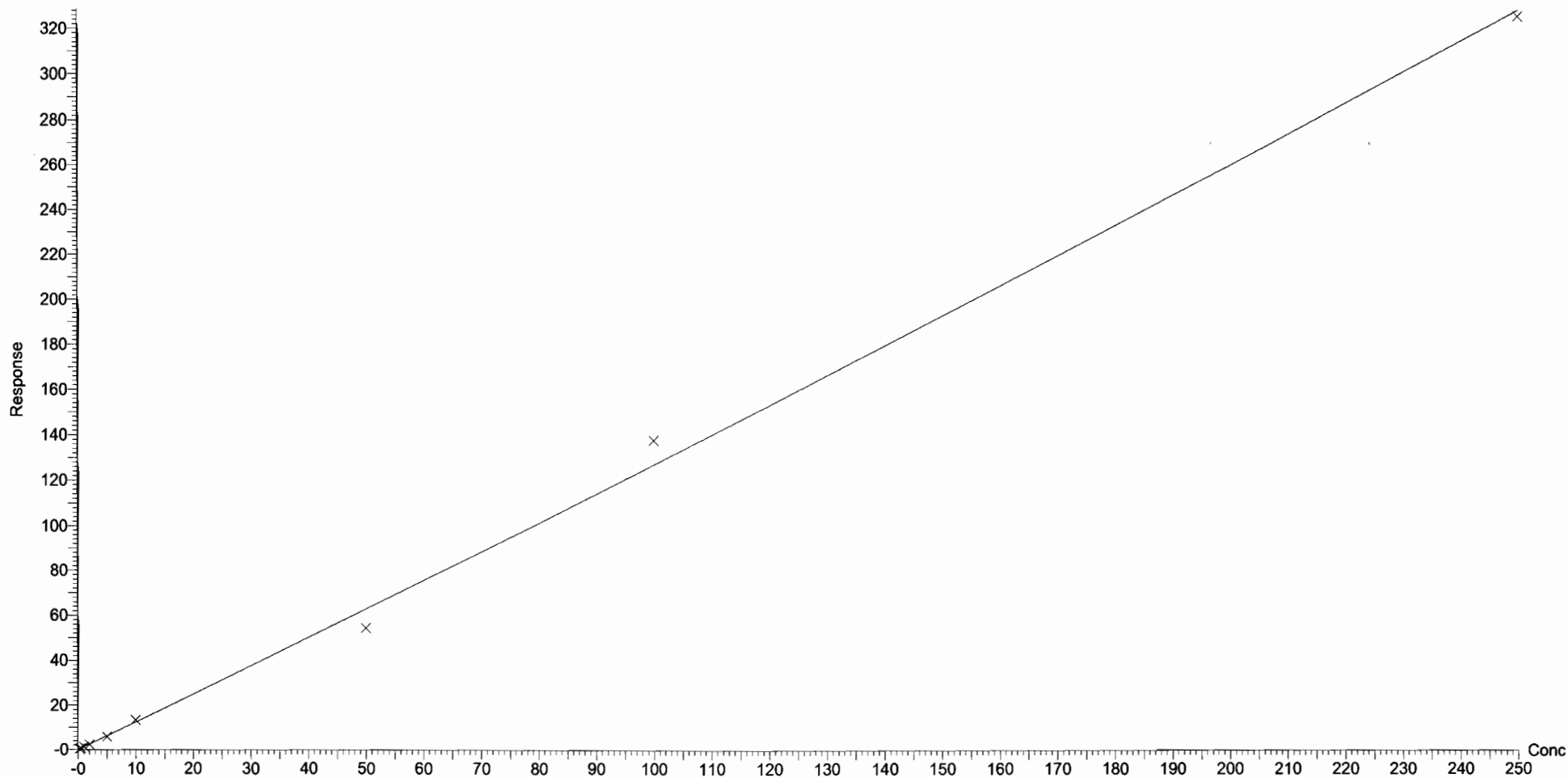
Compound name: L-PFOS

Coefficient of Determination:  $R^2 = 0.996007$

Calibration curve:  $0.000300694 * x^2 + 1.23969 * x + -0.0317851$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

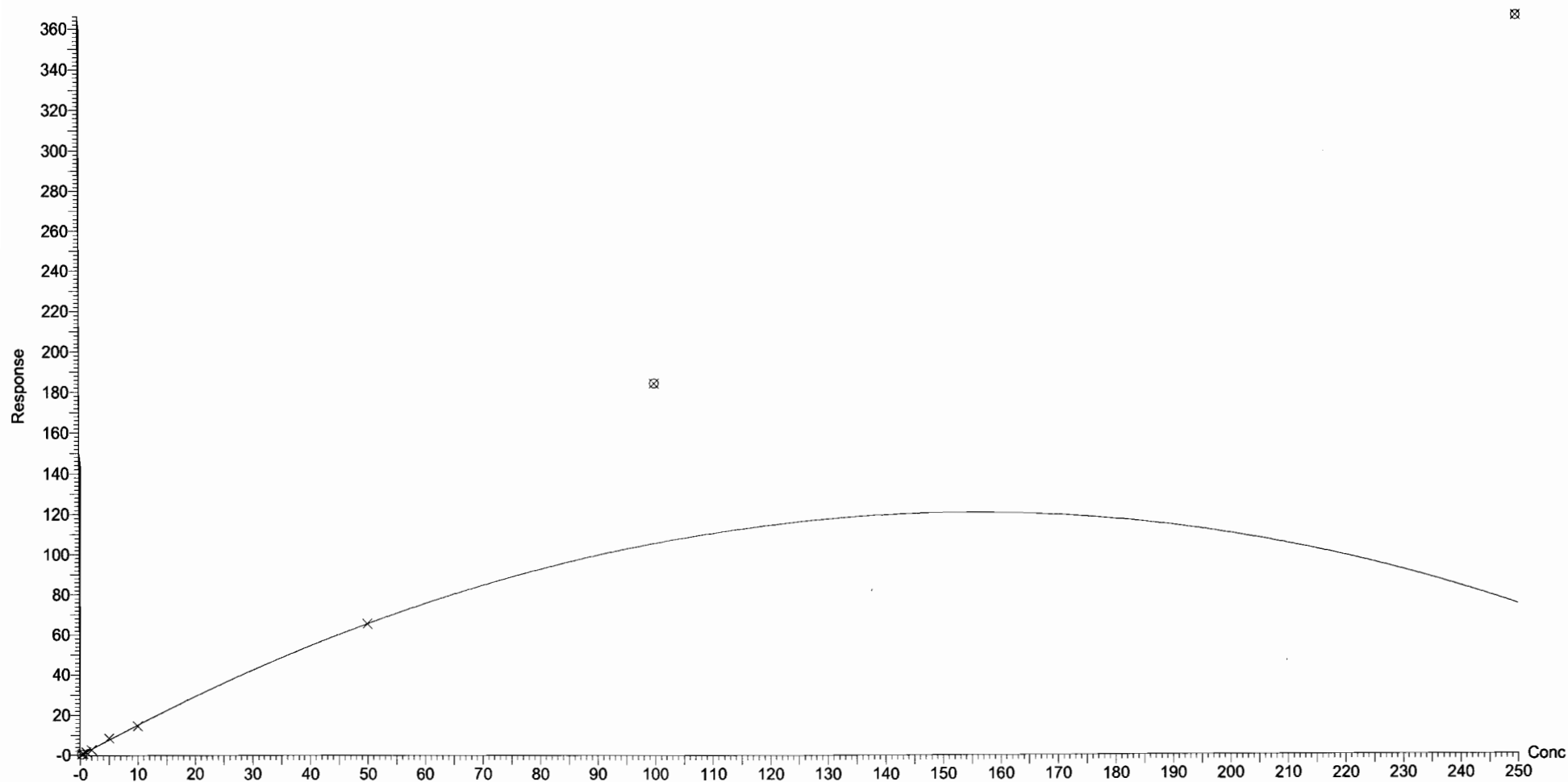
Compound name: PFDA

Coefficient of Determination:  $R^2 = 0.997832$

Calibration curve:  $-0.0050479 * x^2 + 1.55973 * x + -0.0842373$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

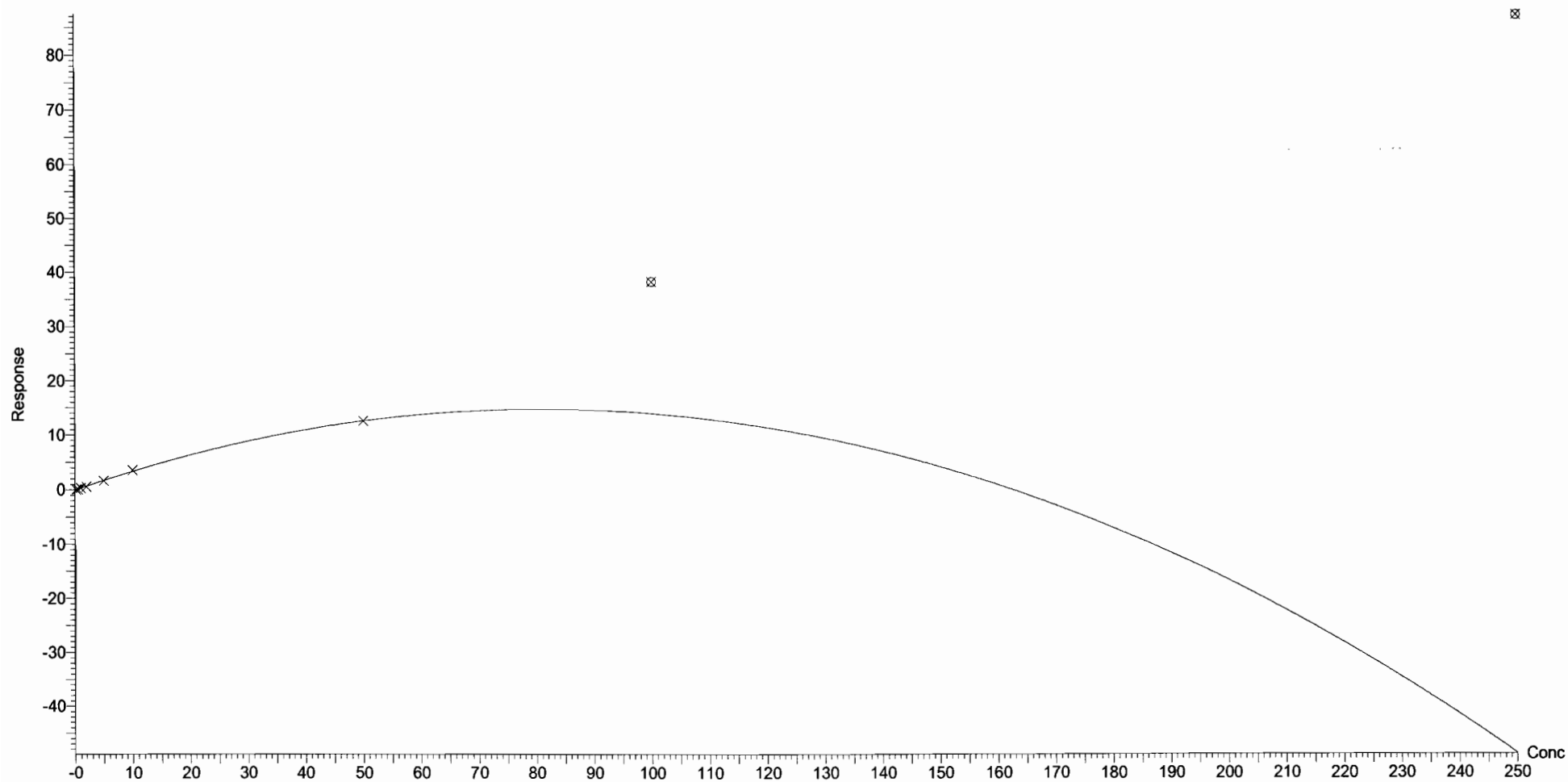
Compound name: 8:2 FTS

Coefficient of Determination:  $R^2 = 0.996846$

Calibration curve:  $-0.00223216 * x^2 + 0.362891 * x + -0.0269702$

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

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



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

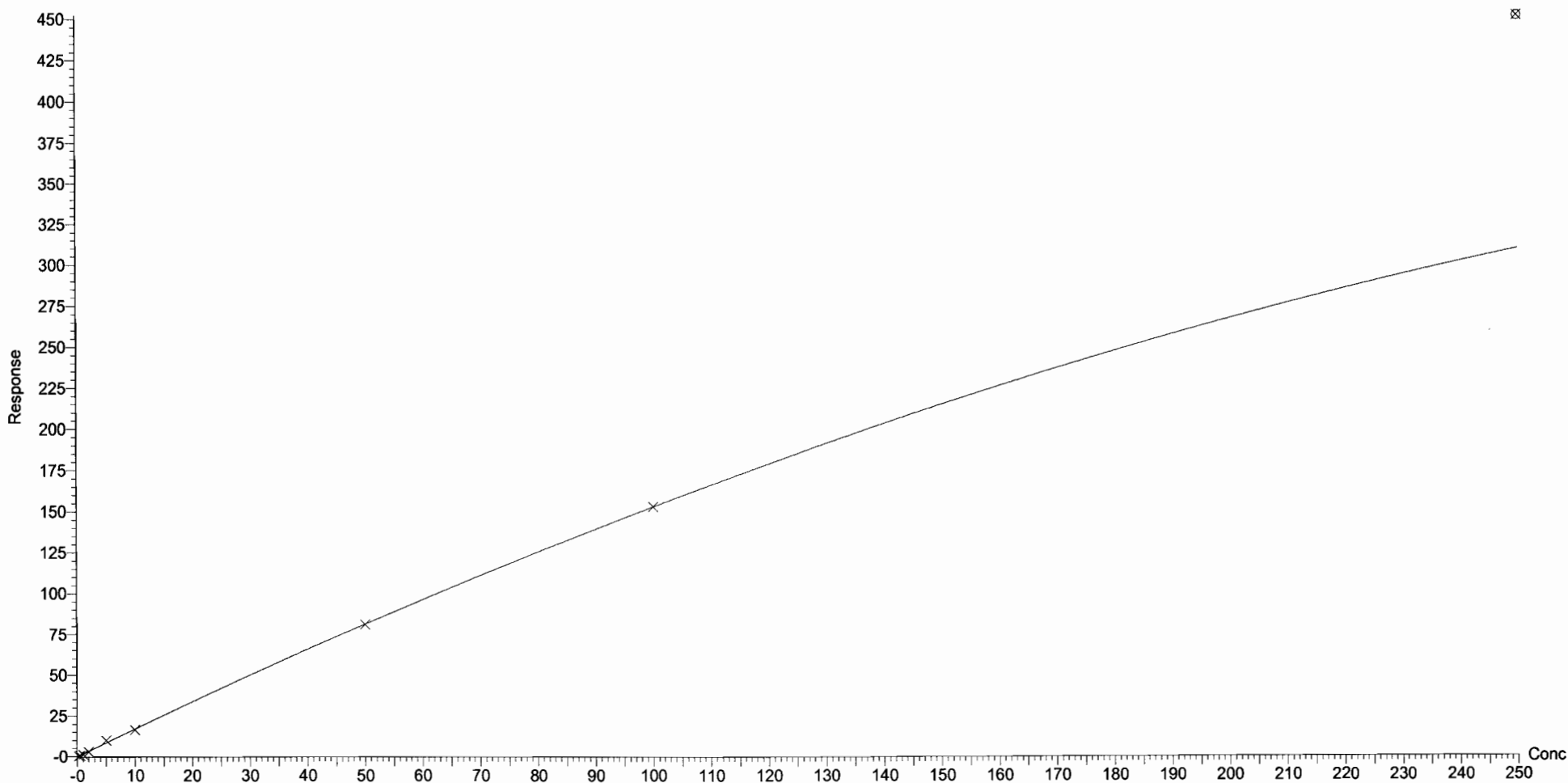
Compound name: N-MeFOSAA

Coefficient of Determination:  $R^2 = 0.998037$

Calibration curve:  $-0.00194018 * x^2 + 1.72273 * x + -0.181365$

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

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



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

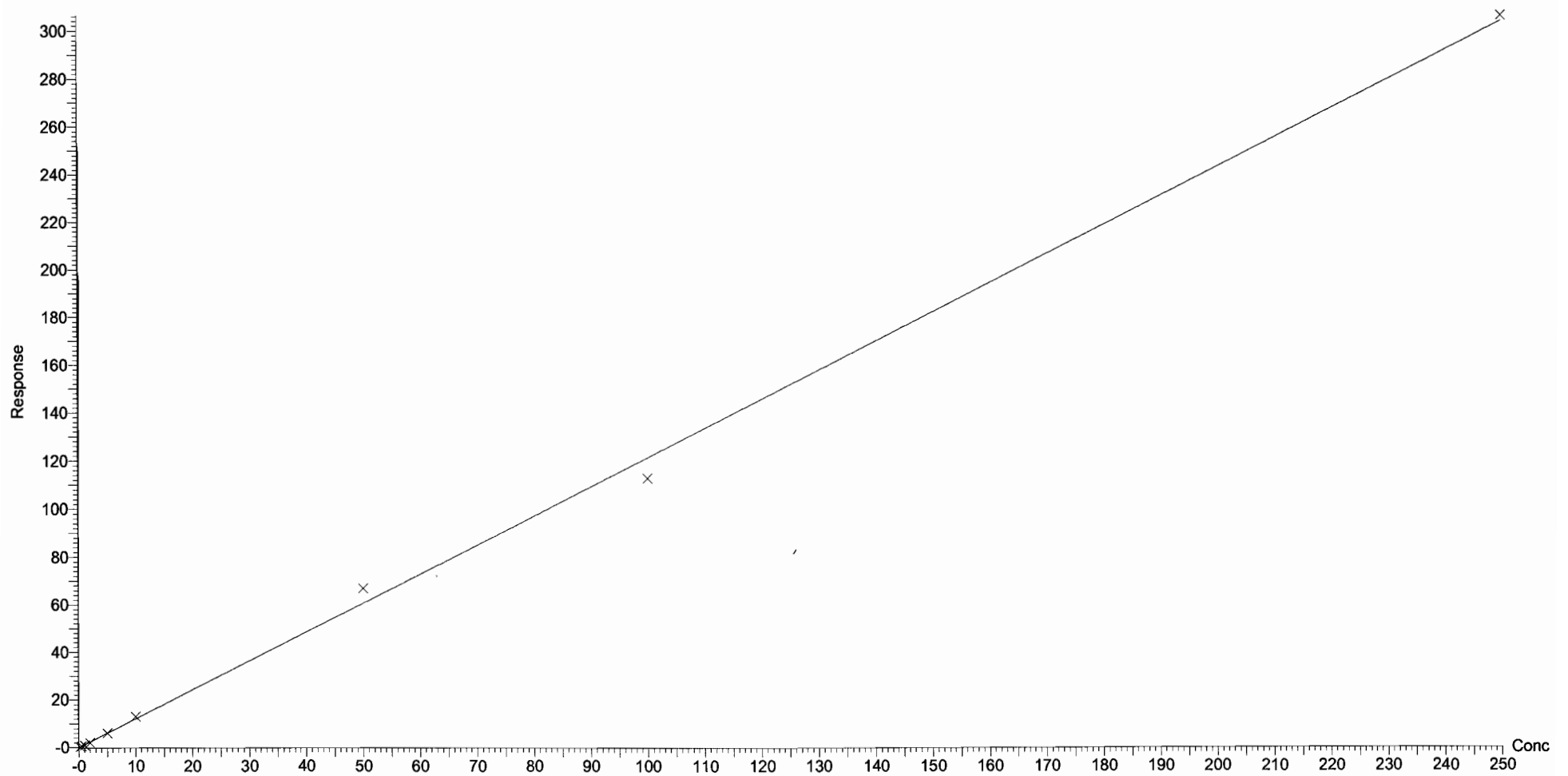
Compound name: N-EtFOSAA

Coefficient of Determination:  $R^2 = 0.997029$

Calibration curve:  $1.84032e-005 * x^2 + 1.21223 * x + -0.0878562$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

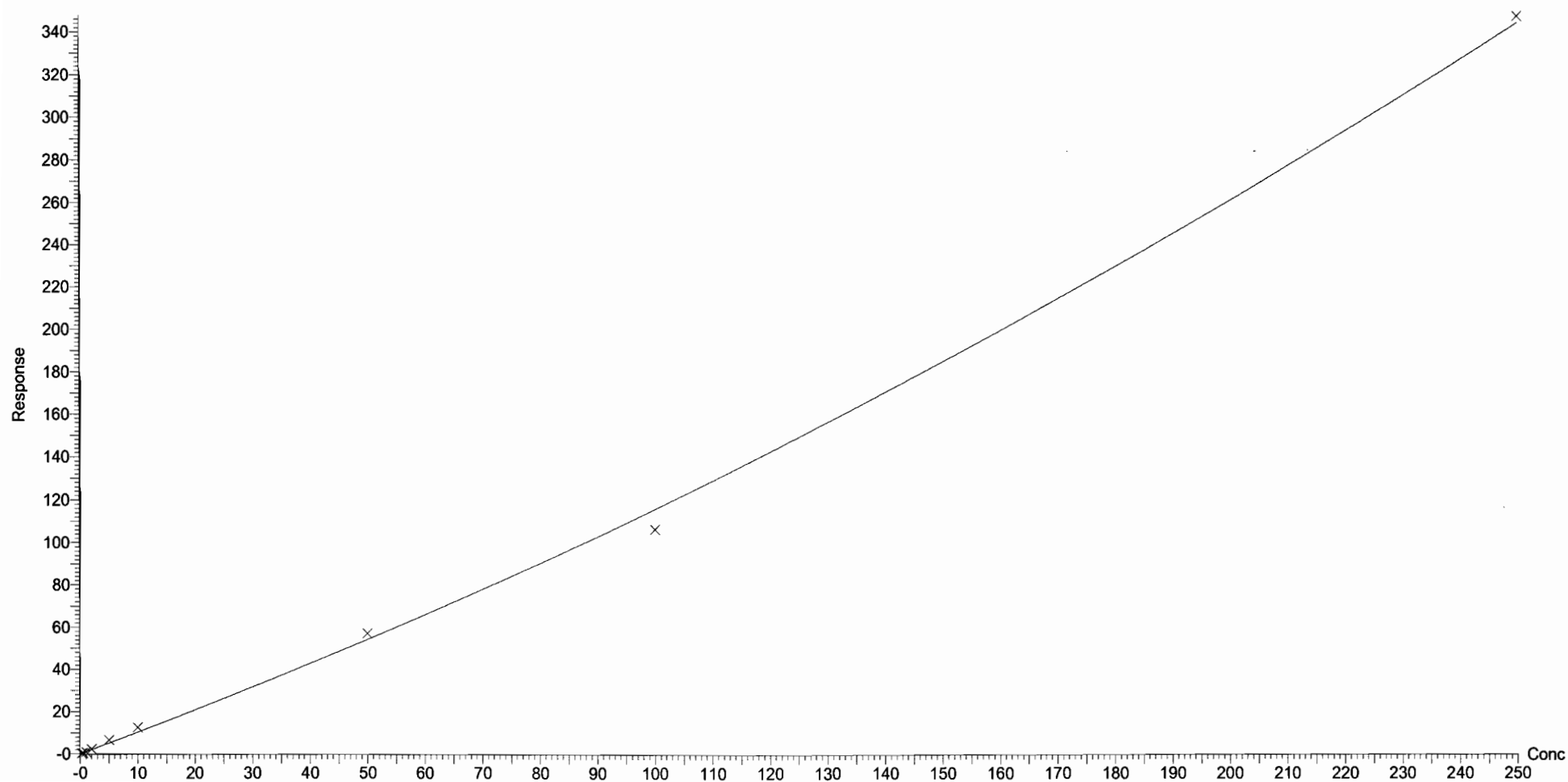
Compound name: PFUdA

Coefficient of Determination:  $R^2 = 0.997047$

Calibration curve:  $0.00147838 * x^2 + 1.00891 * x + 0.082257$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

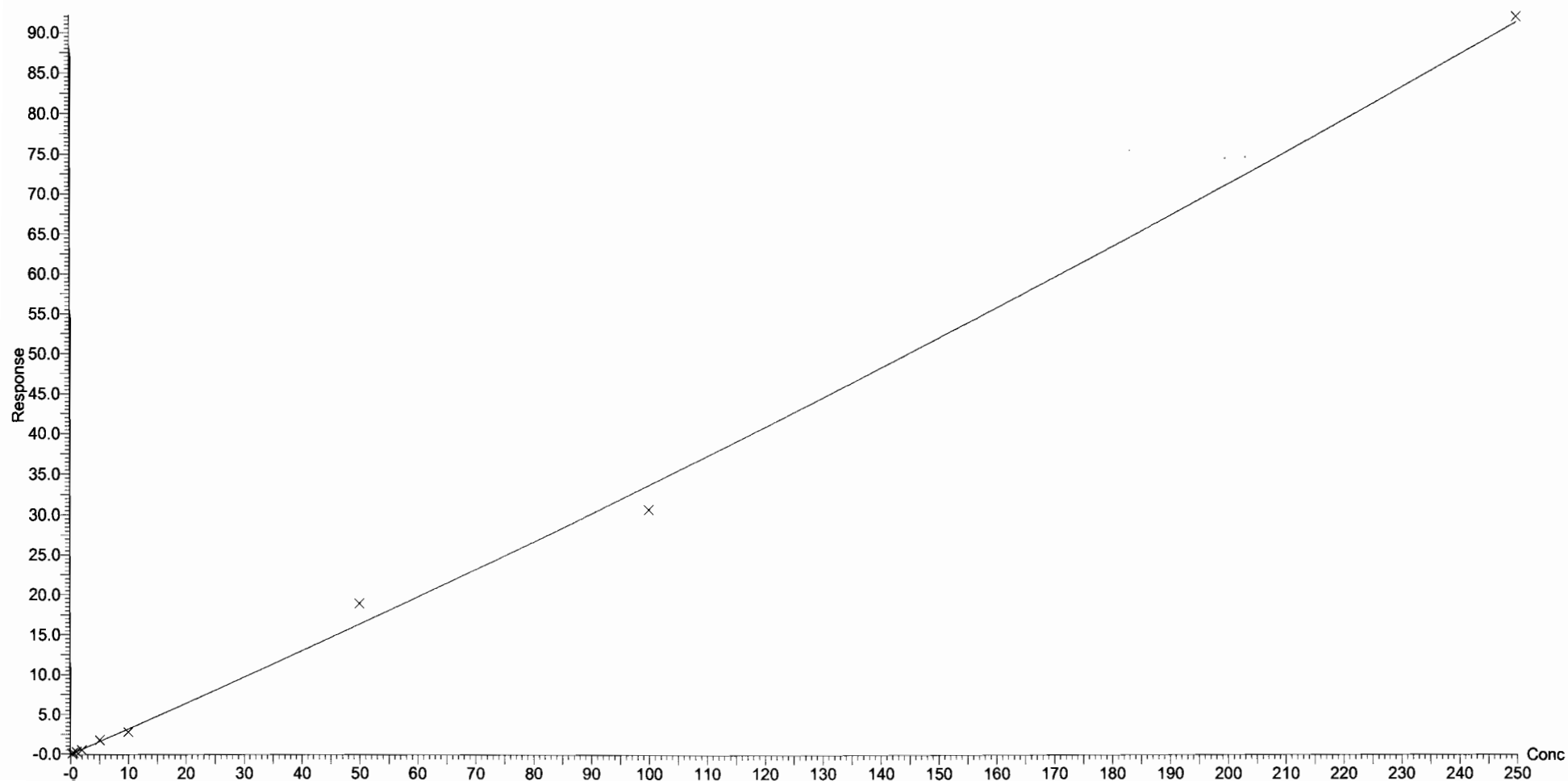
Compound name: PFDS

Coefficient of Determination:  $R^2 = 0.995097$

Calibration curve:  $0.000194307 * x^2 + 0.317229 * x + -0.0197315$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

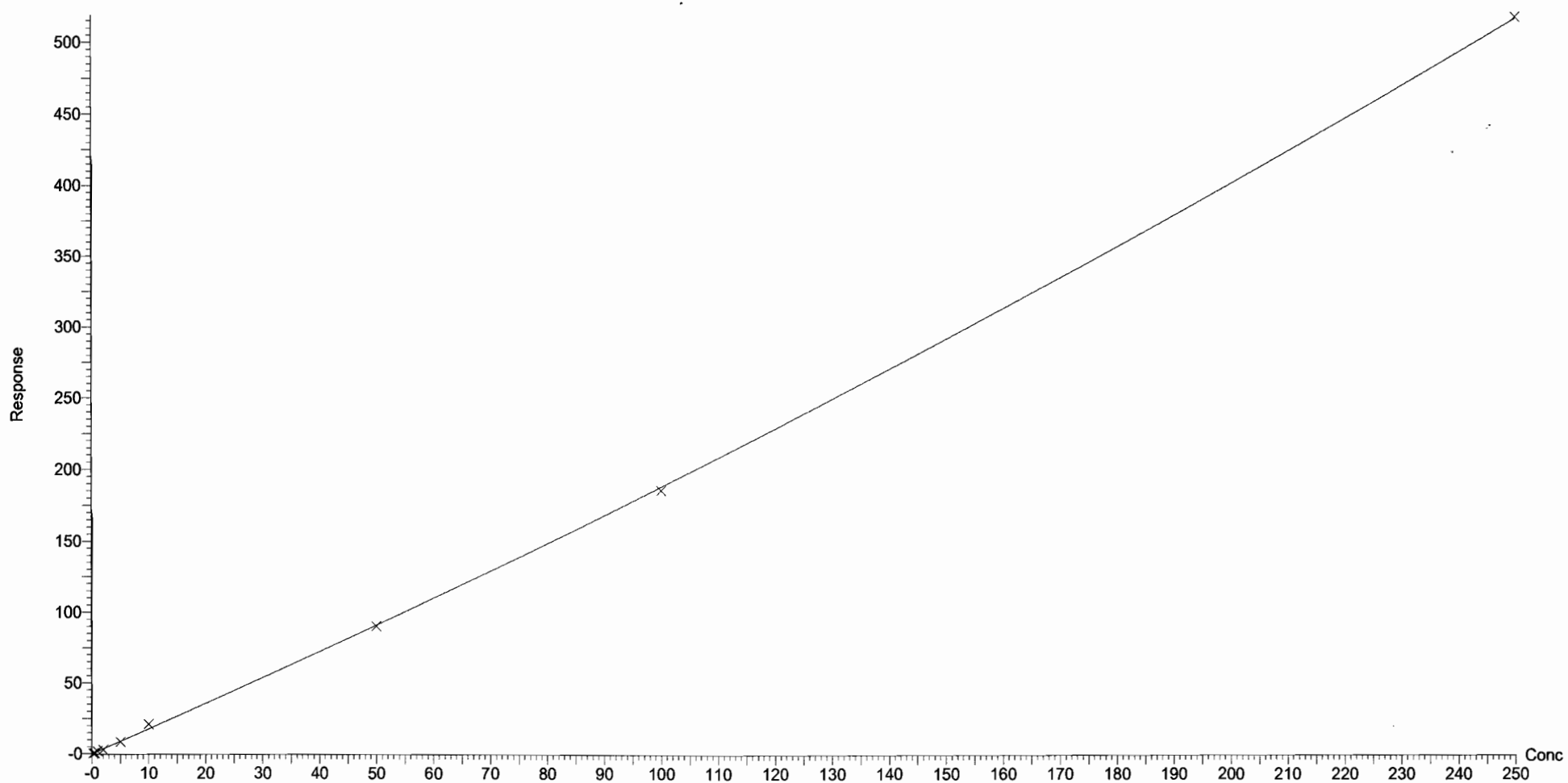
Compound name: PFDoA

Coefficient of Determination:  $R^2 = 0.999022$

Calibration curve:  $0.00126025 * x^2 + 1.75677 * x + -0.0893572$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

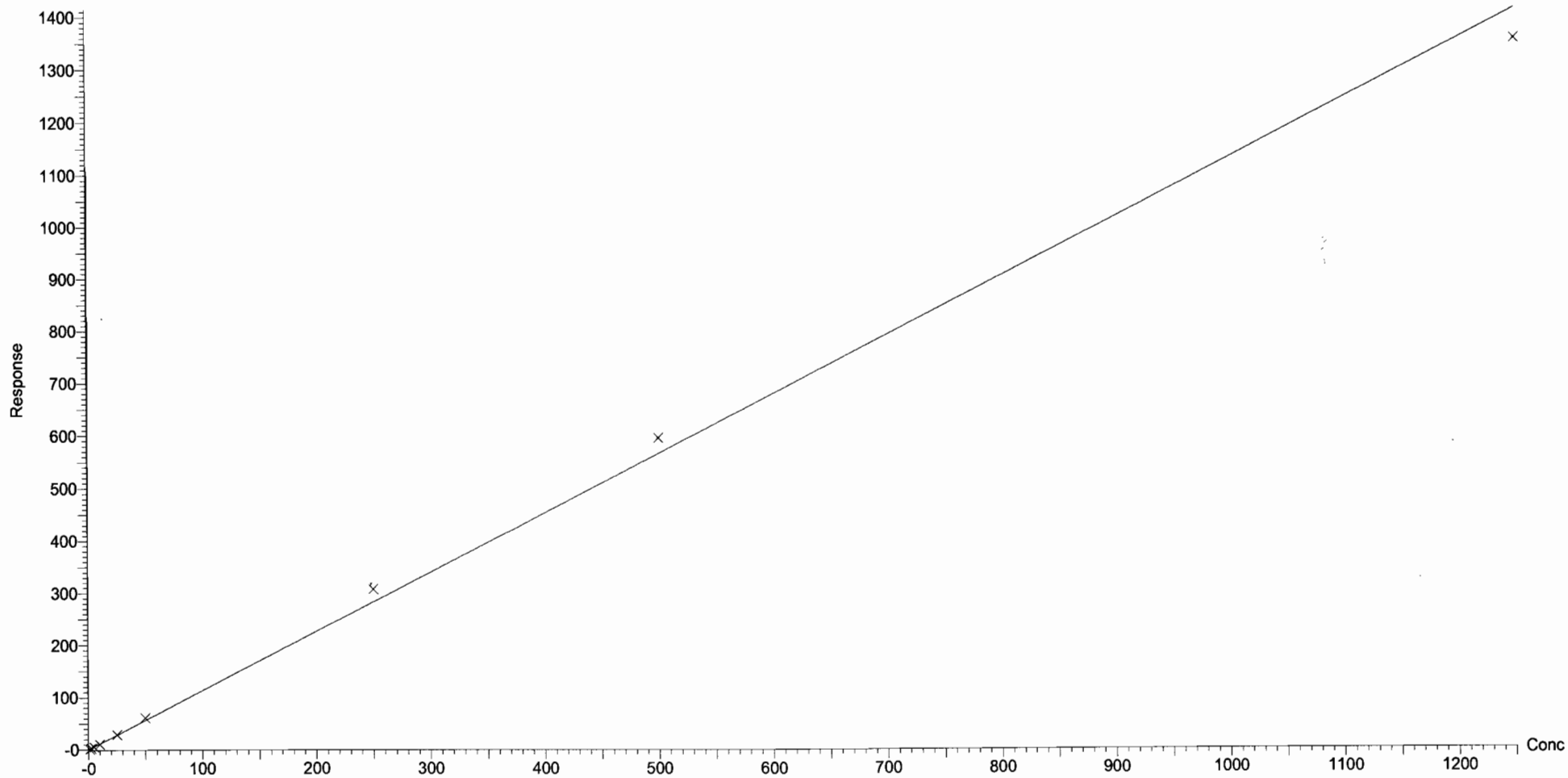
Compound name: N-MeFOSA

Correlation coefficient:  $r = 0.998604$ ,  $r^2 = 0.997211$

Calibration curve:  $1.13158 * x + -0.0254576$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

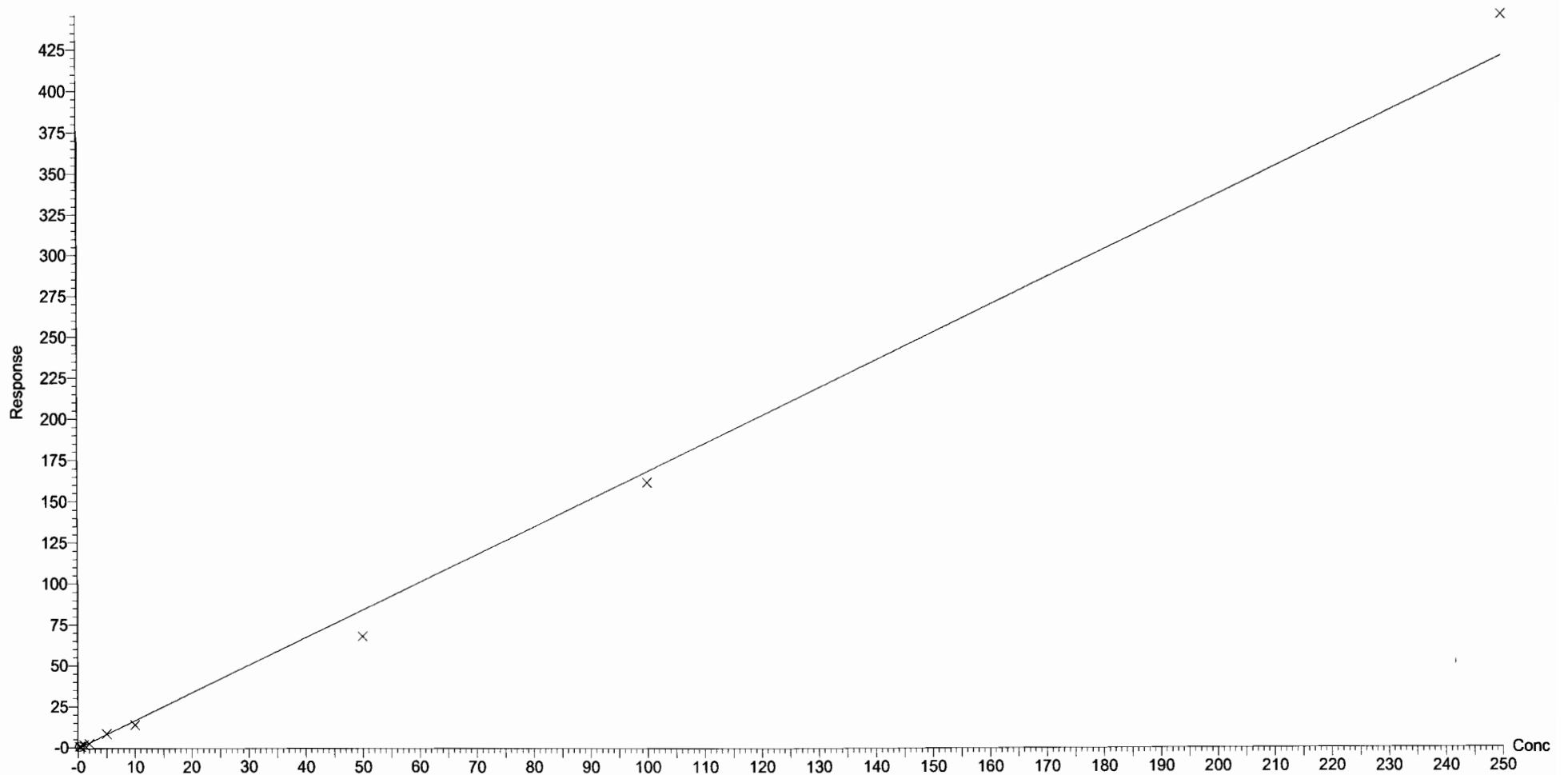
Compound name: PFTrDA

Correlation coefficient:  $r = 0.996052$ ,  $r^2 = 0.992119$

Calibration curve:  $1.68443 * x + -0.444294$

Response type: Internal Std ( Ref 47 ), Area \* ( IS Conc. / IS Area )

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



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

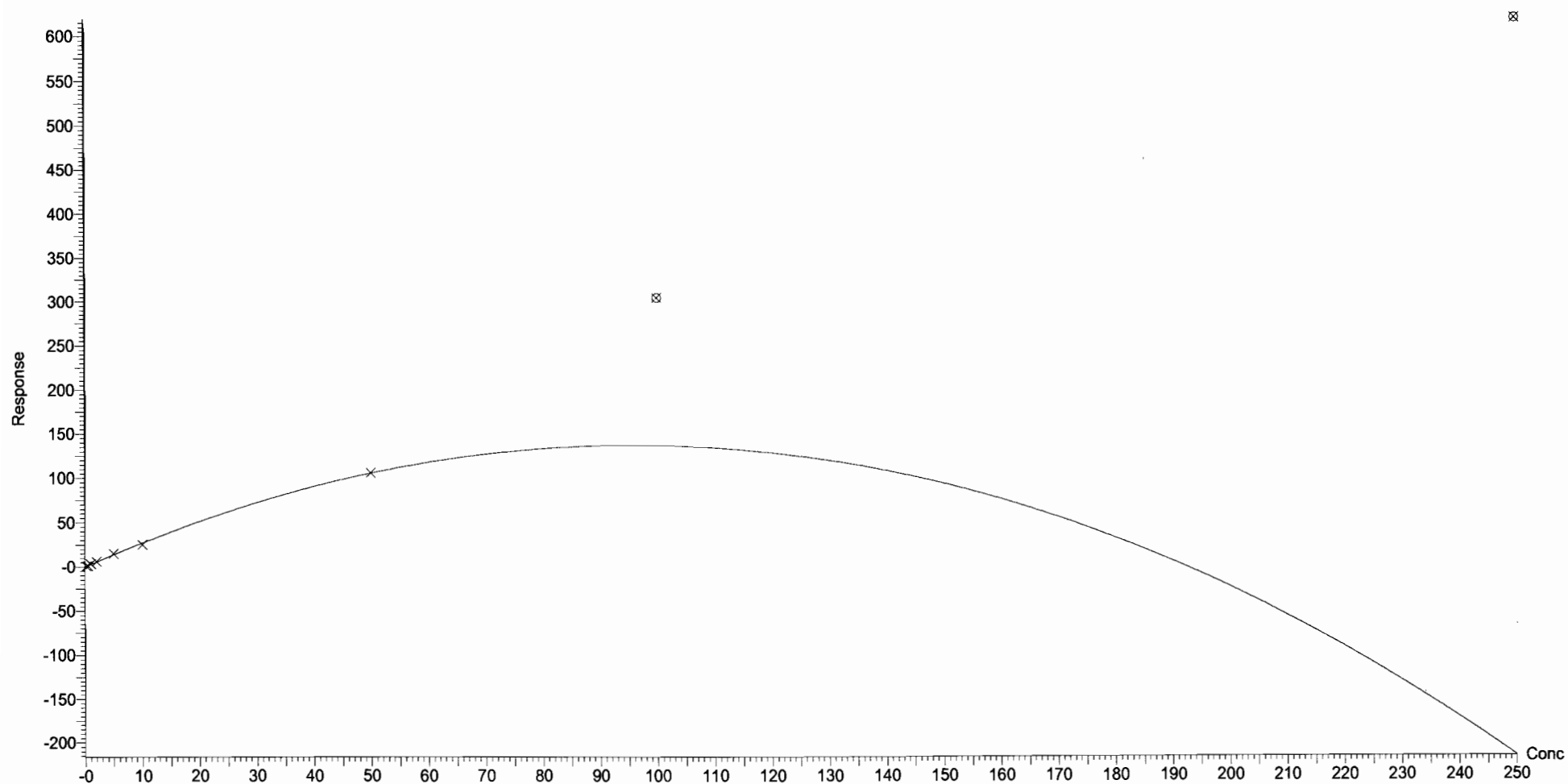
Compound name: PFTeDA

Coefficient of Determination:  $R^2 = 0.996372$

Calibration curve:  $-0.0148538 * x^2 + 2.8497 * x + 0.0369329$

Response type: Internal Std ( Ref 49 ), Area \* ( IS Conc. / IS Area )

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

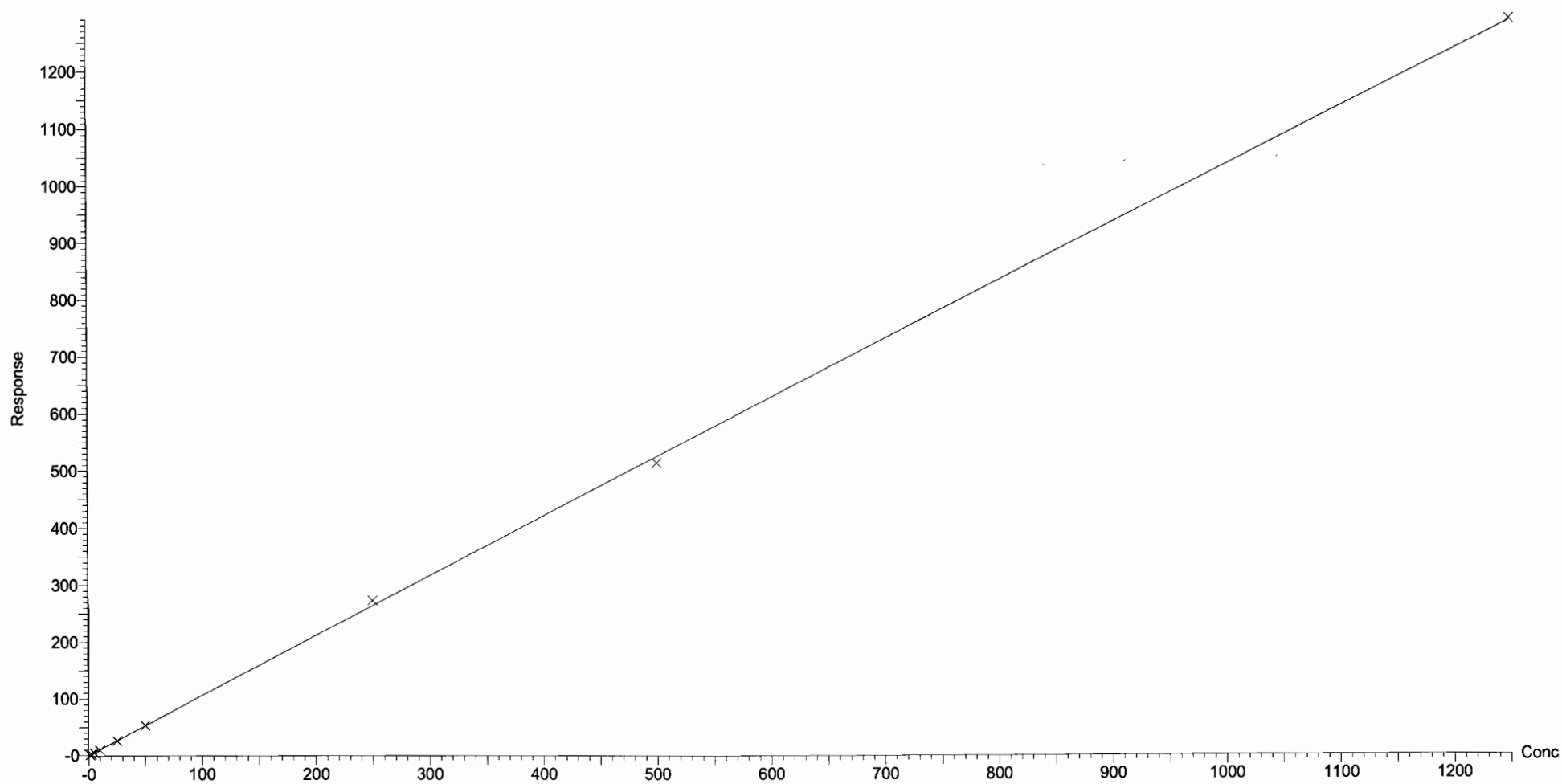


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

Compound name: N-EtFOSA  
Coefficient of Determination:  $R^2 = 0.999673$   
Calibration curve:  $-2.63342e-005 * x^2 + 1.06304 * x - 0.300904$   
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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

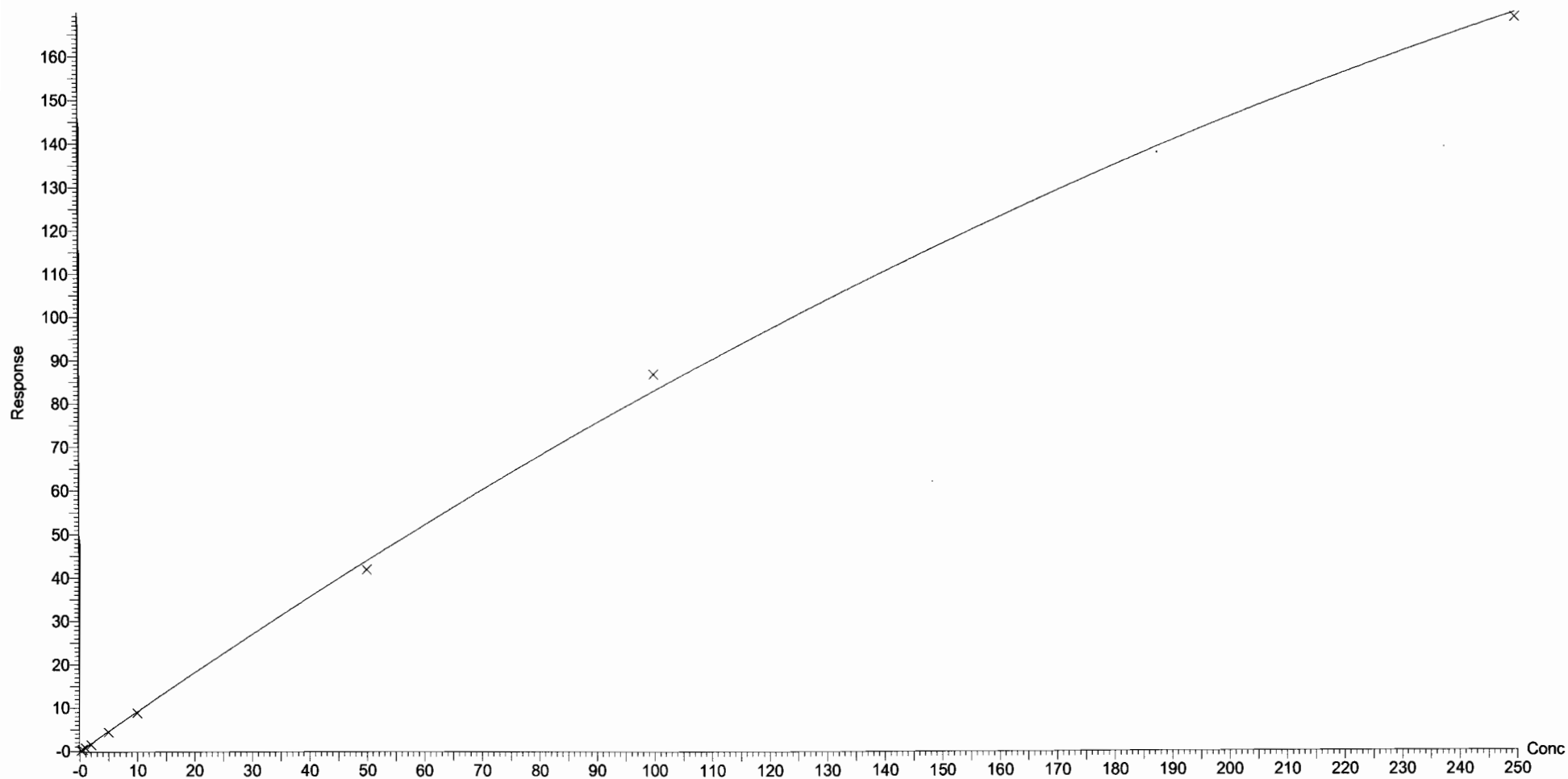
Compound name: PFHxDA

Coefficient of Determination:  $R^2 = 0.998631$

Calibration curve:  $-0.000996916 * x^2 + 0.929338 * x + -0.12247$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

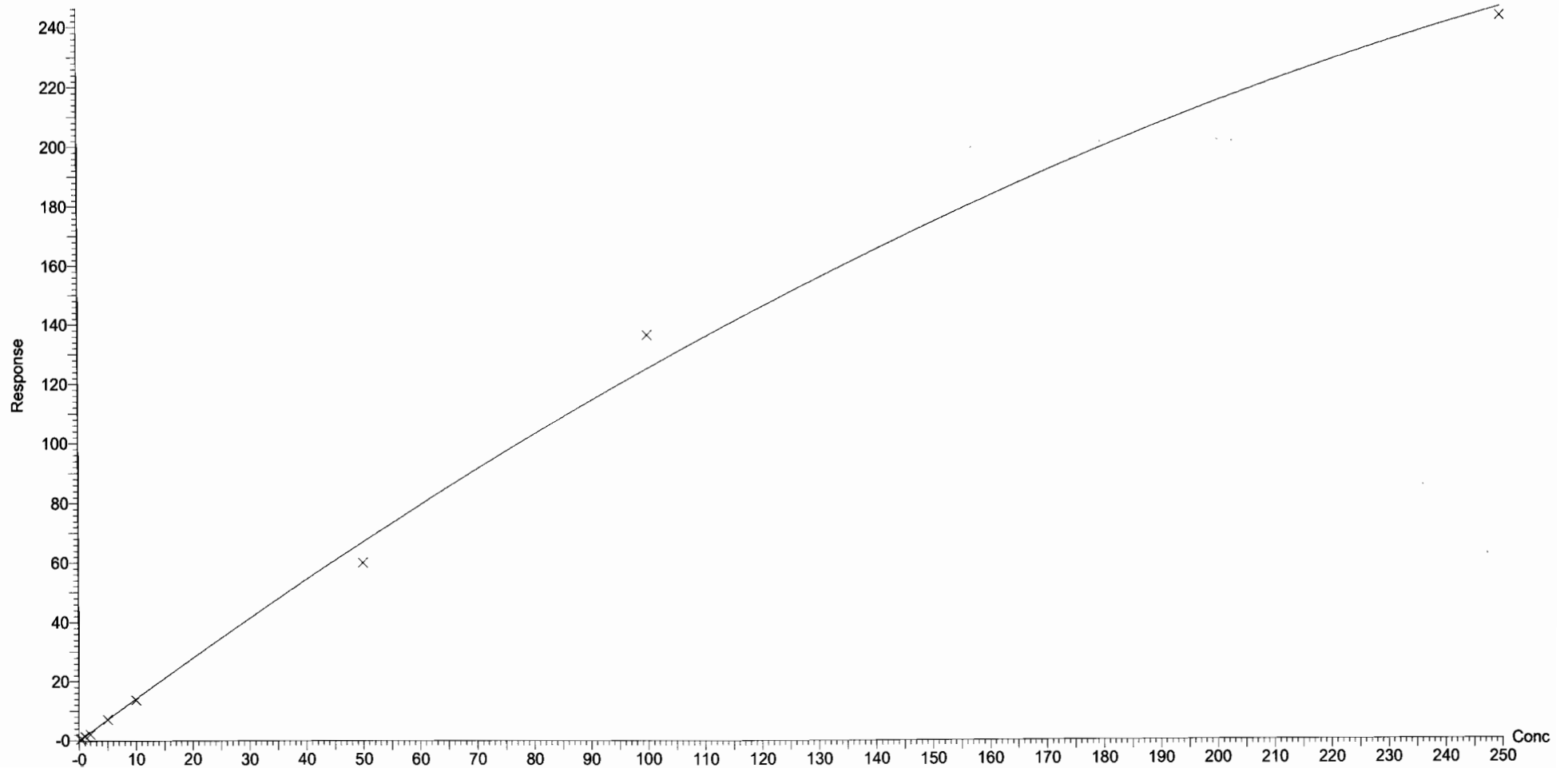
Compound name: PFODA

Coefficient of Determination:  $R^2 = 0.994872$

Calibration curve:  $-0.00177409 * x^2 + 1.42876 * x + -0.0978488$

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\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

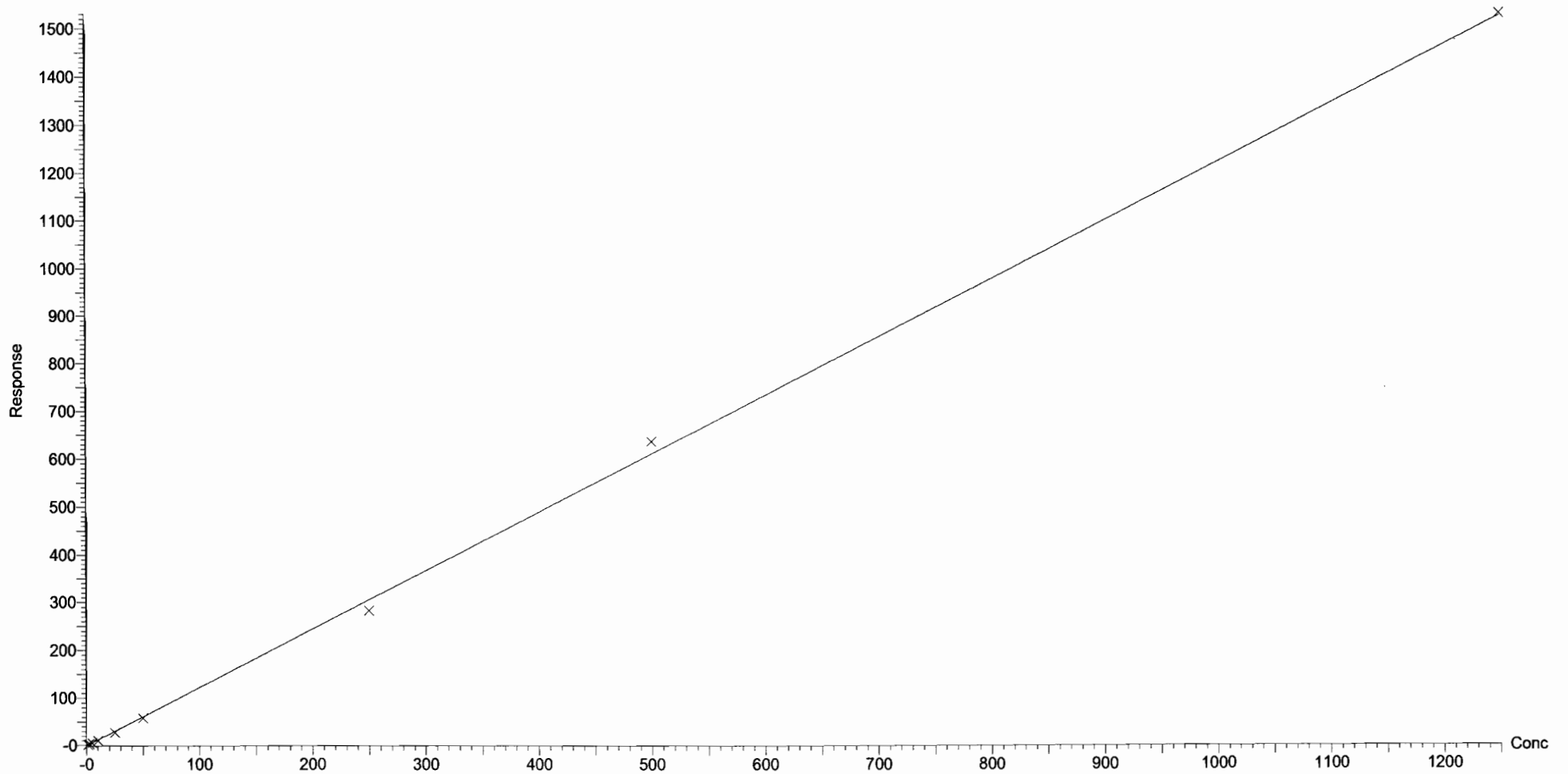
Compound name: N-MeFOSE

Correlation coefficient:  $r = 0.999225$ ,  $r^2 = 0.998451$

Calibration curve:  $1.22136 * x + -0.531738$

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

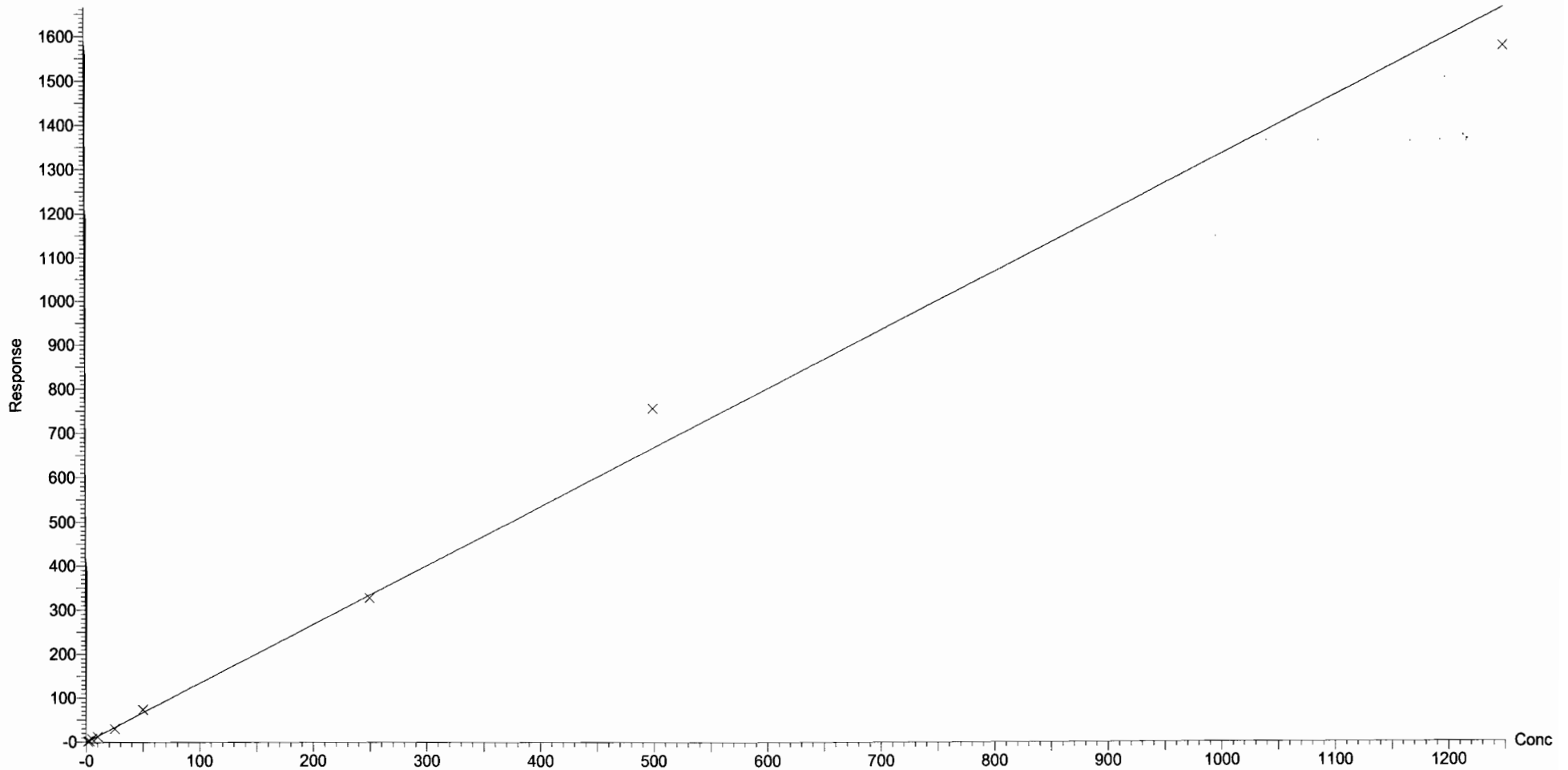
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:14:38 Pacific Standard Time

Compound name: N-EtFOSE  
Correlation coefficient:  $r = 0.996730$ ,  $r^2 = 0.993471$   
Calibration curve:  $1.33127 * x + -0.306208$   
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\171227M2\171227M2-CRV.qld

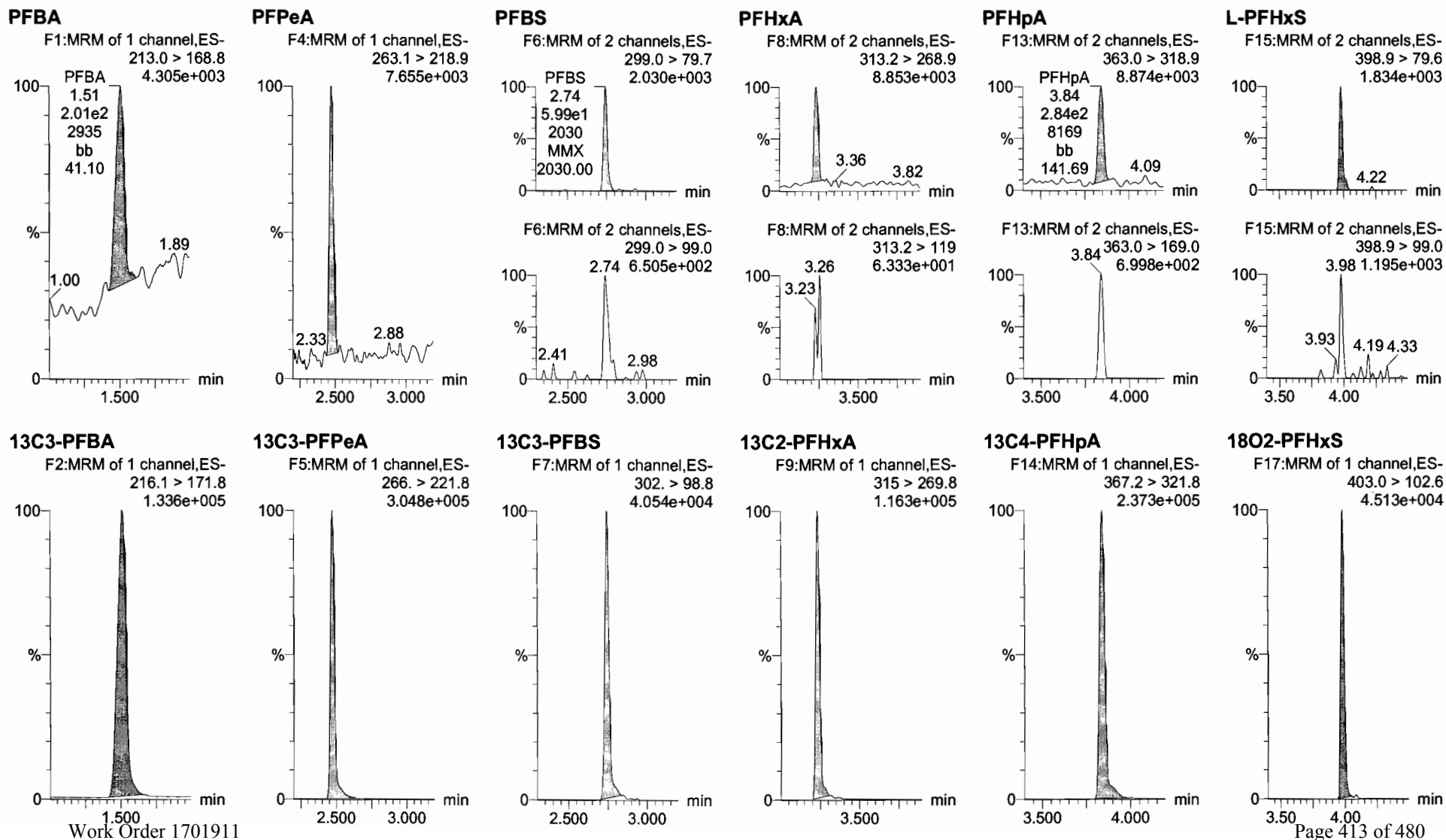
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 28 Dec 2017 08:41:53

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171227M2\_2, Date: 27-Dec-2017, Time: 17:36:41, ID: ST171227M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606



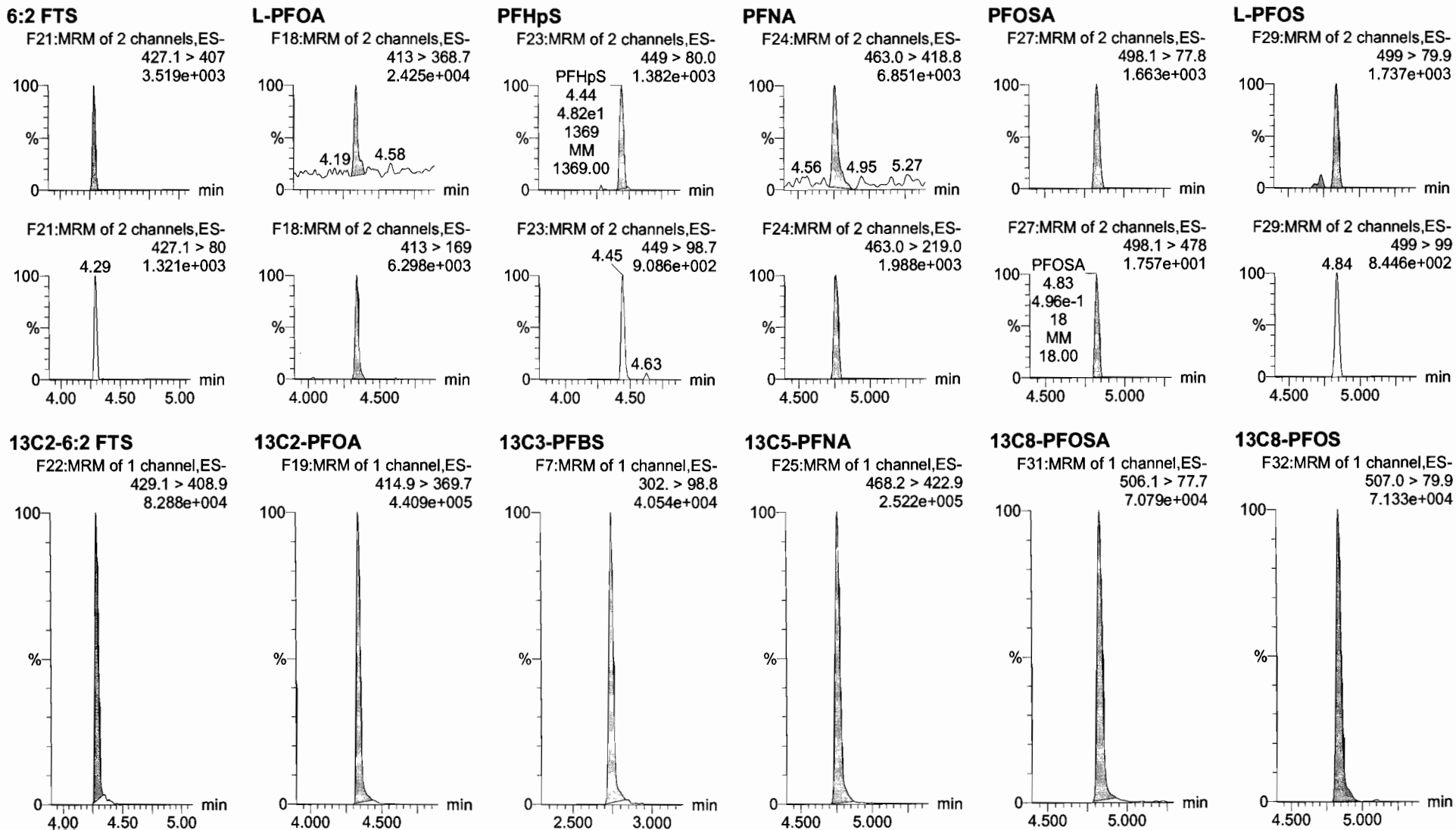


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_2, Date: 27-Dec-2017, Time: 17:36:41, ID: ST171227M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

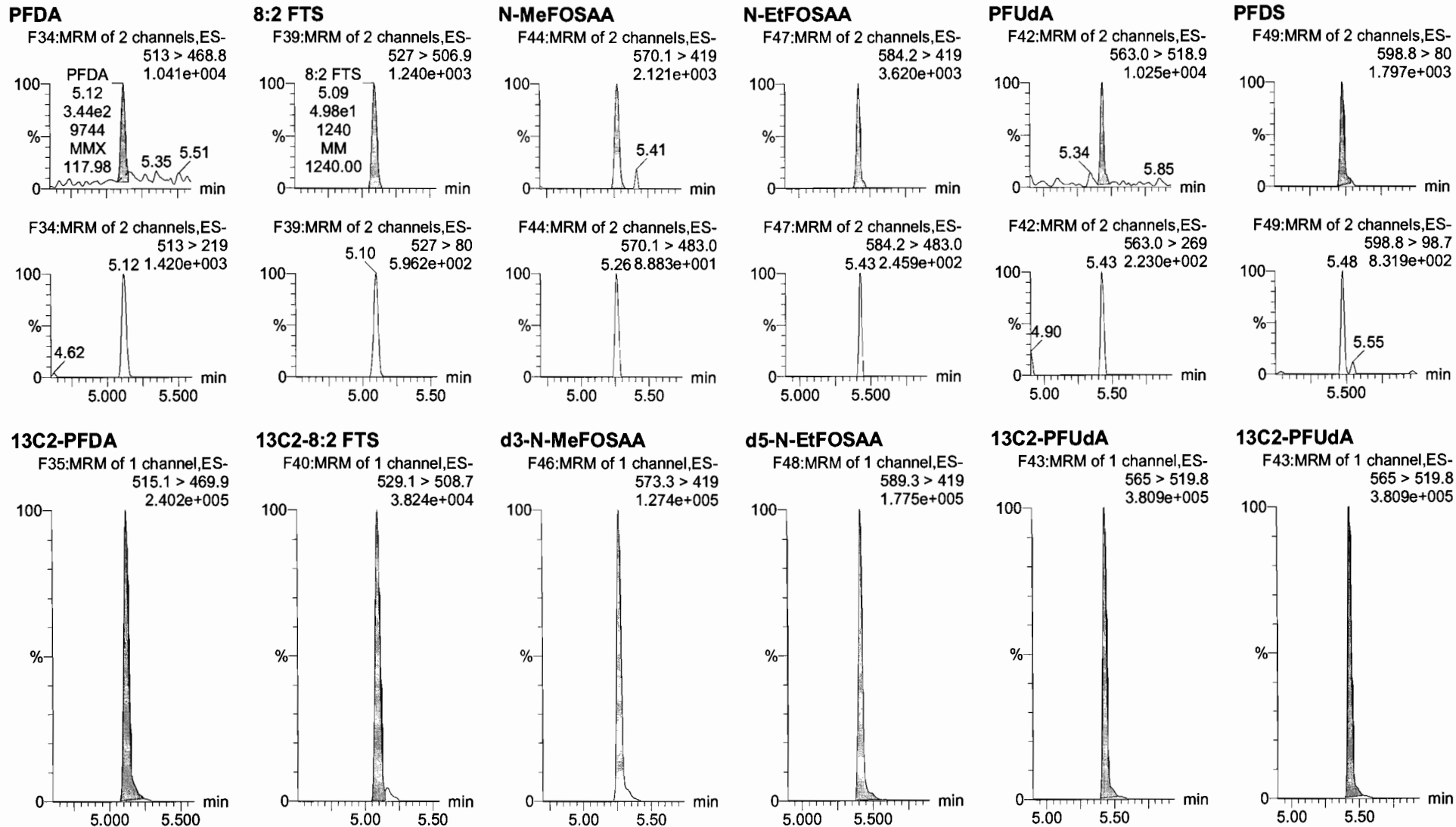


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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_2, Date: 27-Dec-2017, Time: 17:36:41, ID: ST171227M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606



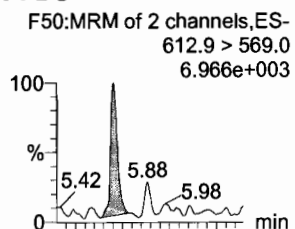
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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

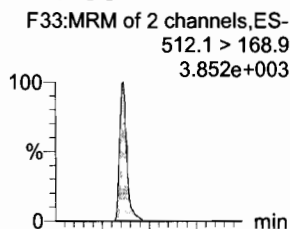
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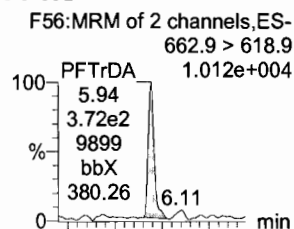
**PFDaA**



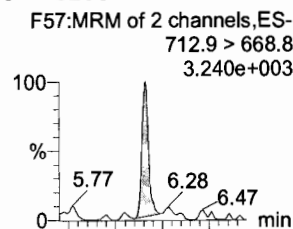
**N-MeFOSA**



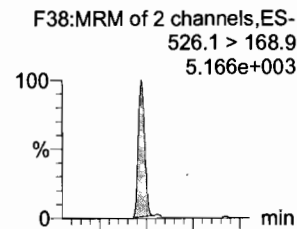
**PFTrDA**



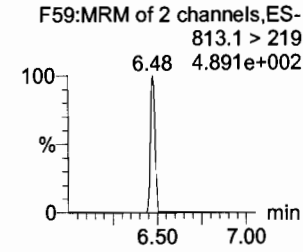
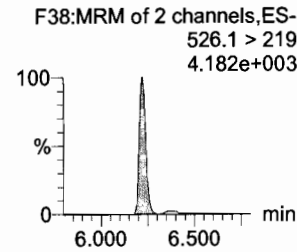
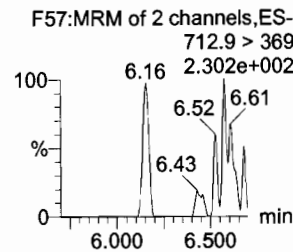
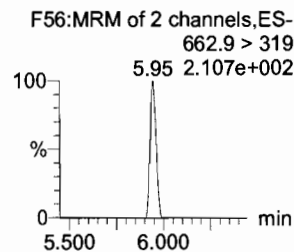
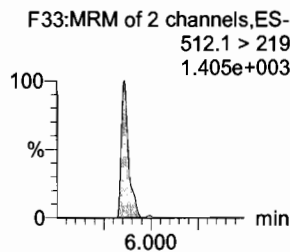
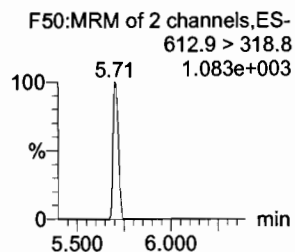
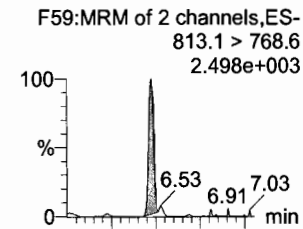
**PFTeDA**



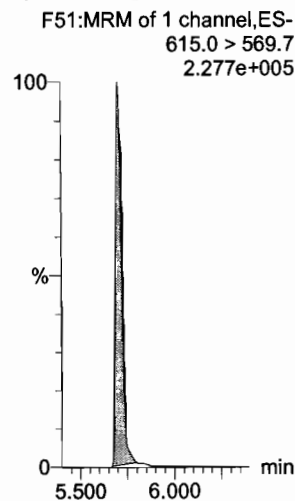
**N-EtFOSA**



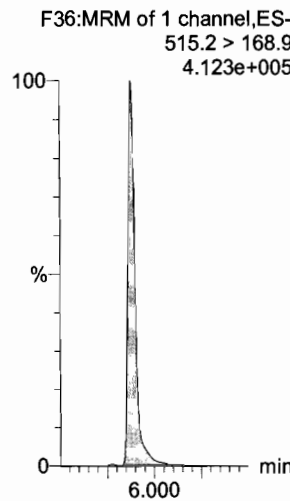
**PFHxDA**



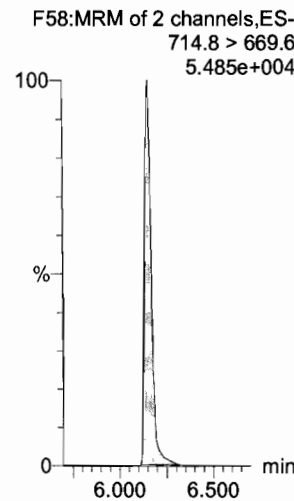
**13C2-PFDaA**



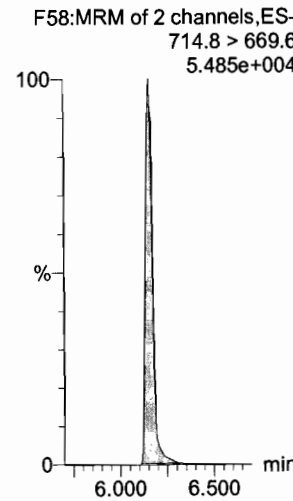
**d3-N-MeFOSA**



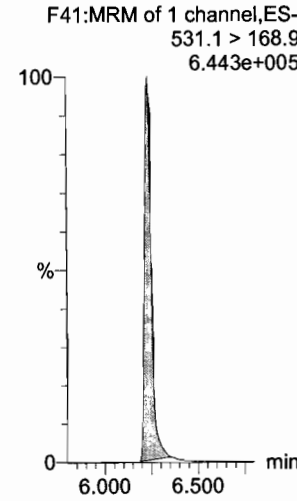
**13C2-PFTeDA**



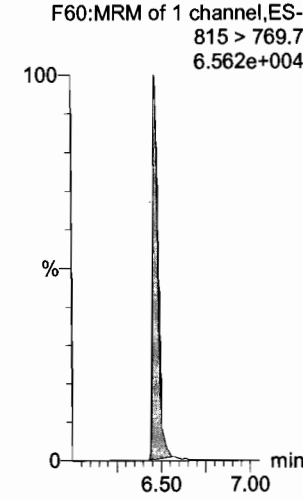
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**

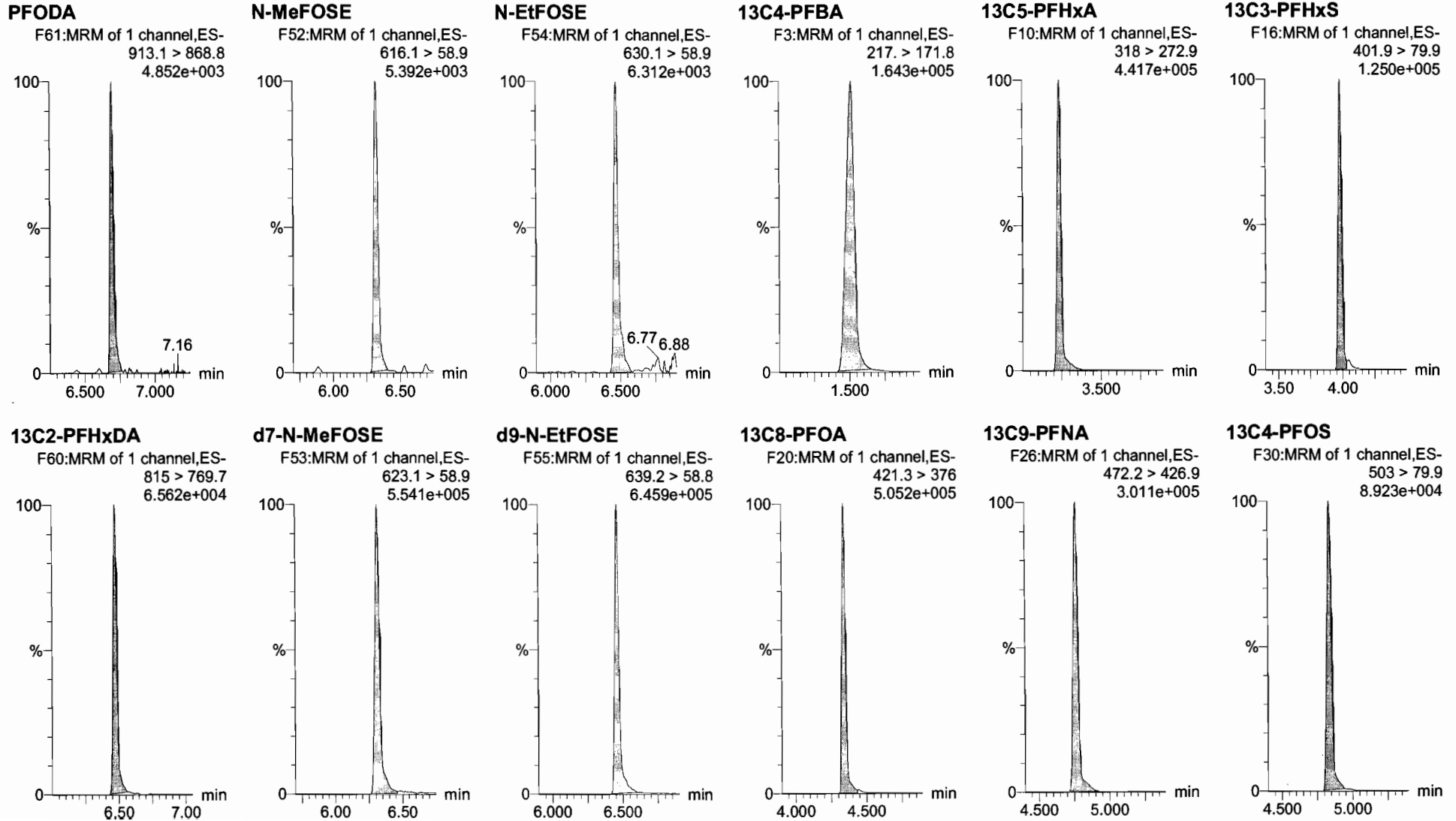


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_2, Date: 27-Dec-2017, Time: 17:36:41, ID: ST171227M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606



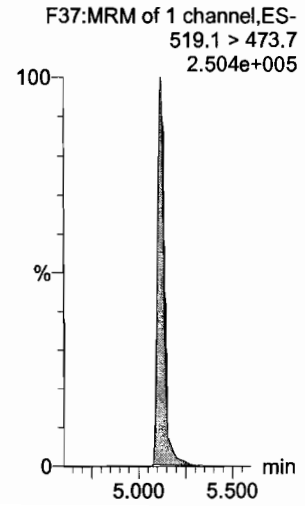
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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

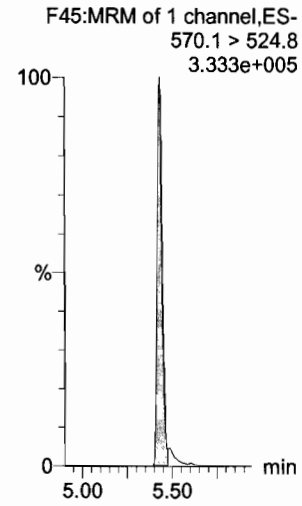
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Name: 171227M2\_2, Date: 27-Dec-2017, Time: 17:36:41, ID: ST171227M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

13C6-PFDA



13C7-PFUdA



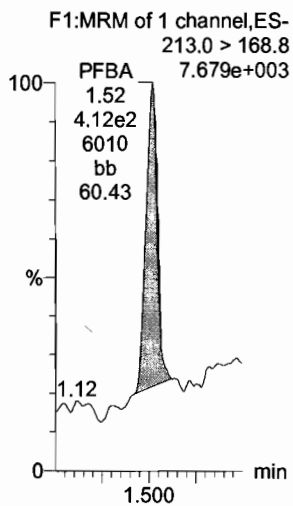
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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

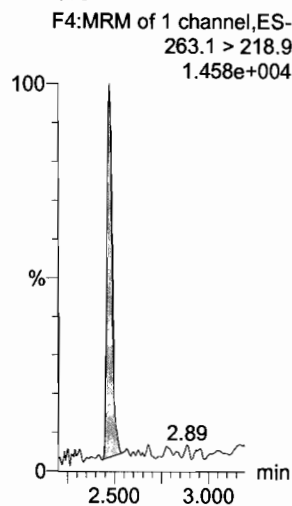
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_3, Date: 27-Dec-2017, Time: 17:47:52, ID: ST171227M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

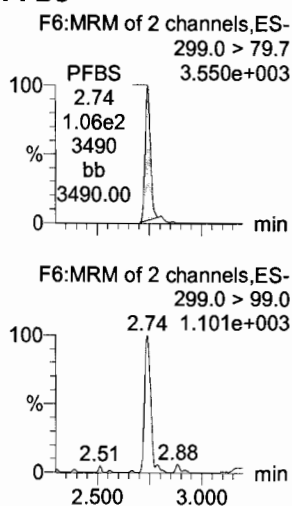
**PFBA**



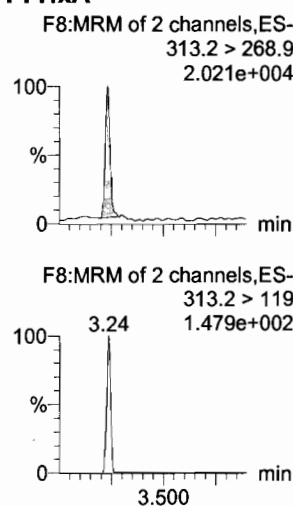
**PFPeA**



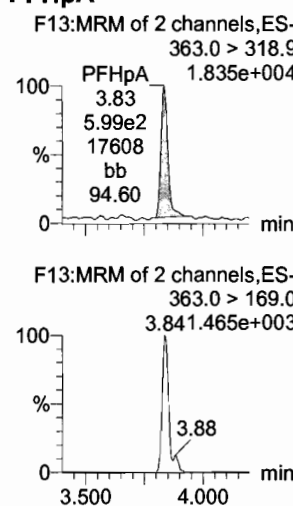
**PFBS**



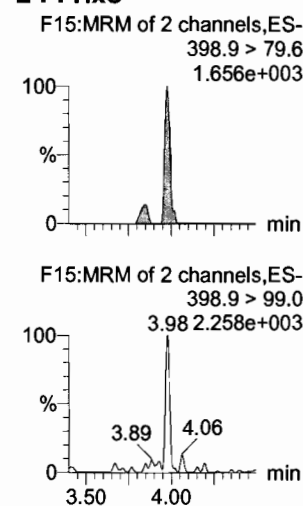
**PFHxA**



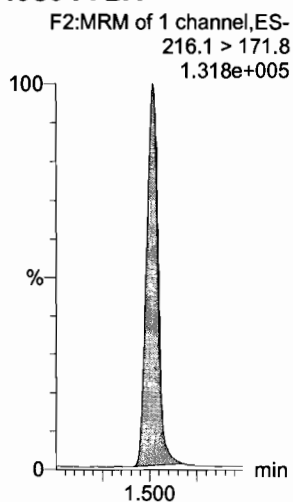
**PFHpA**



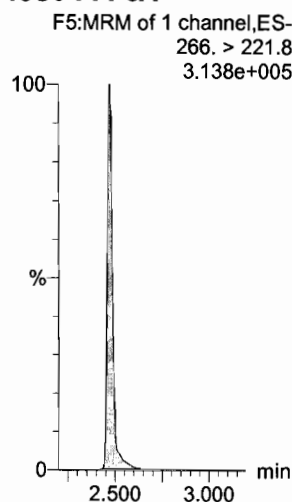
**L-PFHxS**



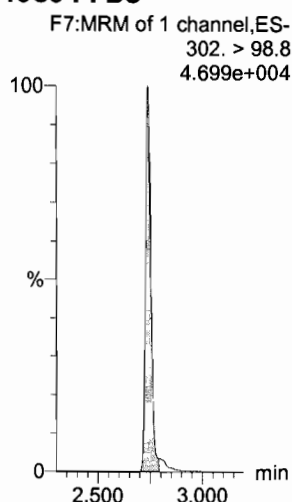
**13C3-PFBA**



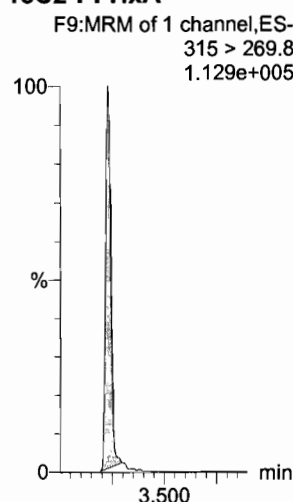
**13C3-PFPeA**



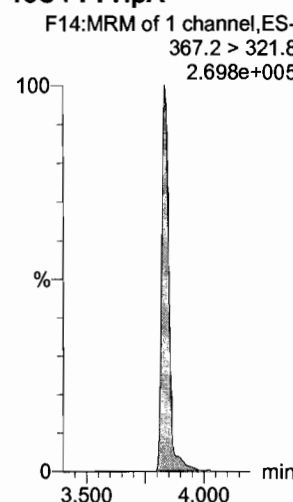
**13C3-PFBS**



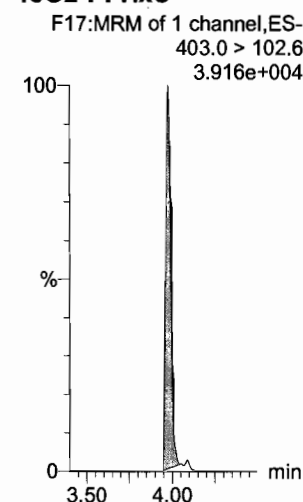
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

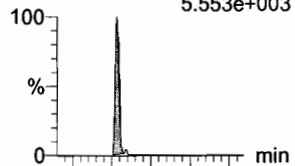
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Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

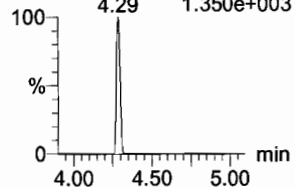
Name: 171227M2\_3, Date: 27-Dec-2017, Time: 17:47:52, ID: ST171227M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
5.553e+003

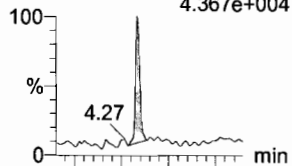


F21:MRM of 2 channels,ES-  
427.1 > 80  
1.350e+003

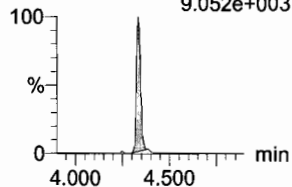


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.367e+004

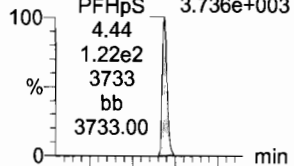


F18:MRM of 2 channels,ES-  
413 > 169  
9.052e+003

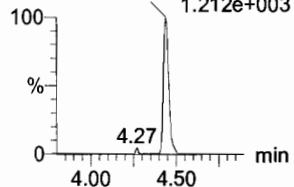


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
3.736e+003

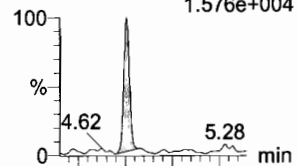


F23:MRM of 2 channels,ES-  
449 > 98.7  
1.212e+003

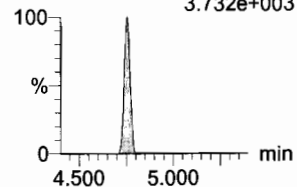


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
1.576e+004

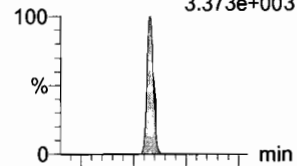


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
3.732e+003

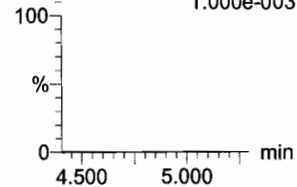


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
3.373e+003

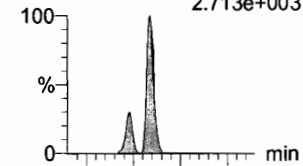


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.000e-003

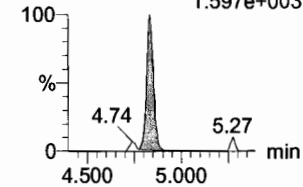


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
2.713e+003

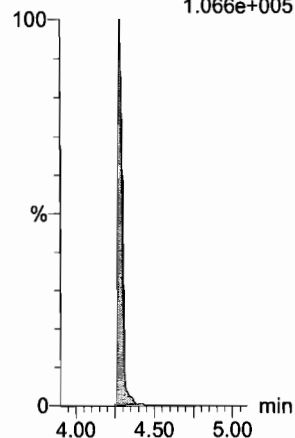


F29:MRM of 2 channels,ES-  
499 > 99  
1.597e+003



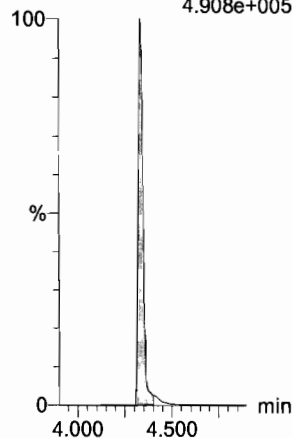
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.066e+005



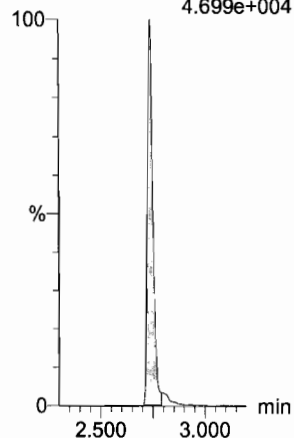
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.908e+005



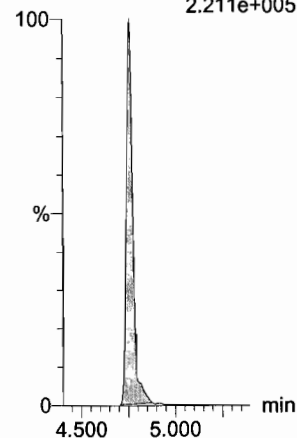
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
4.699e+004



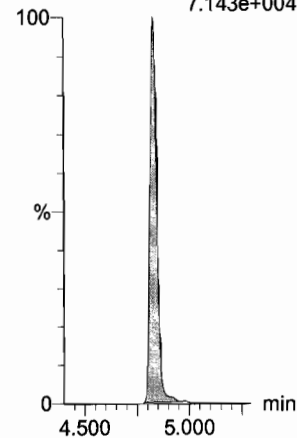
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.211e+005



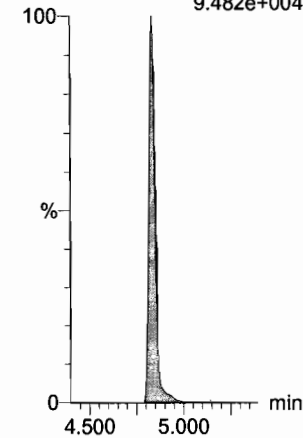
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
7.143e+004



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.482e+004

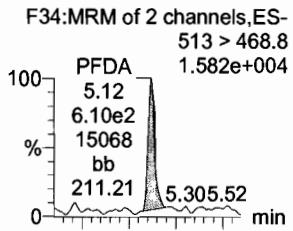


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

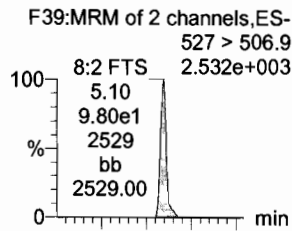
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_3, Date: 27-Dec-2017, Time: 17:47:52, ID: ST171227M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

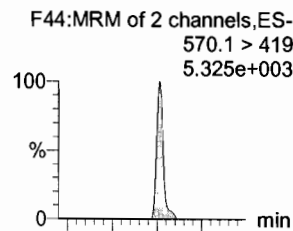
**PFDA**



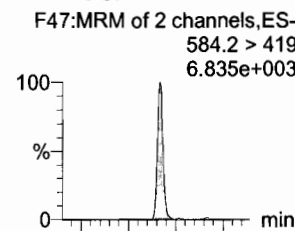
**8:2 FTS**



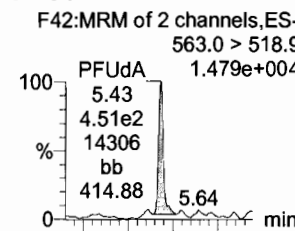
**N-MeFOSAA**



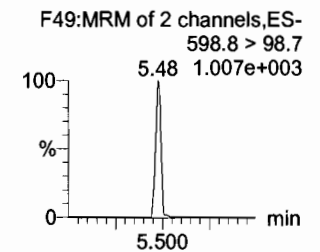
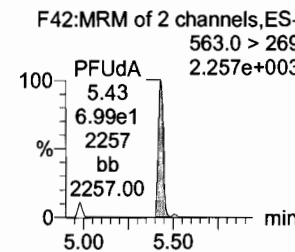
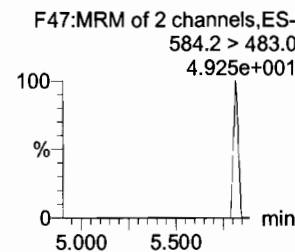
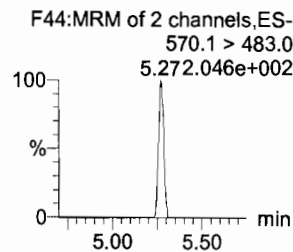
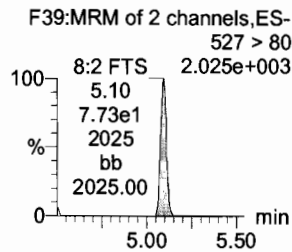
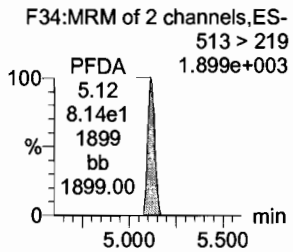
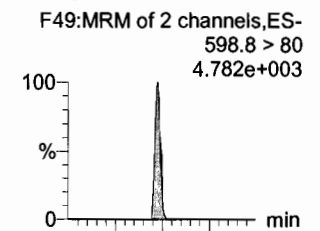
**N-EtFOSAA**



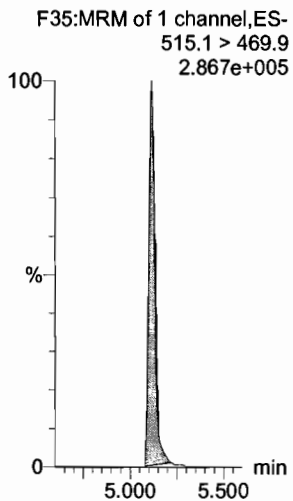
**PFUdA**



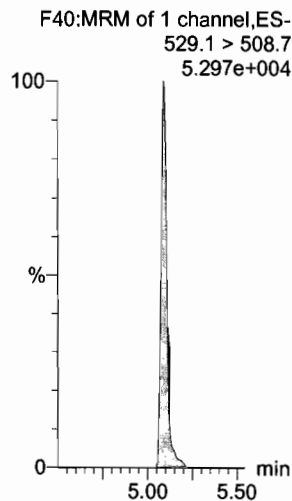
**PFDS**



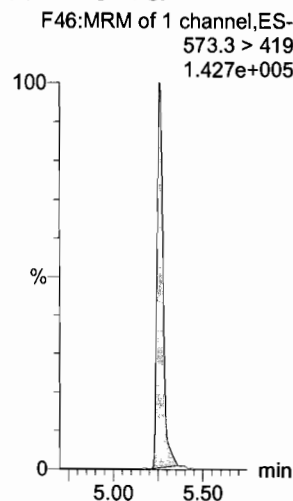
**13C2-PFDA**



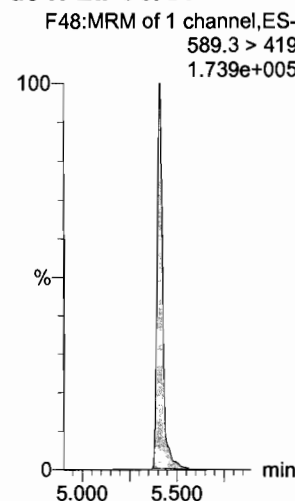
**13C2-8:2 FTS**



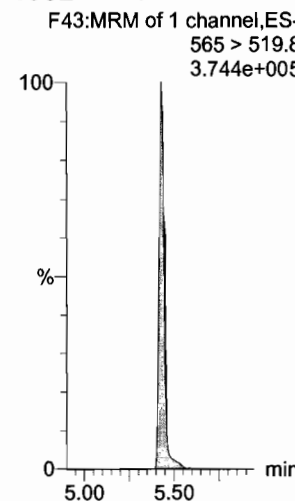
**d3-N-MeFOSAA**



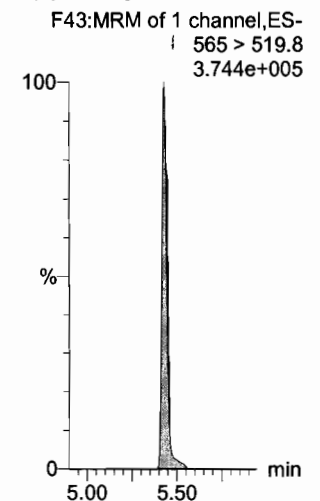
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**





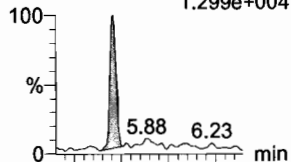
Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

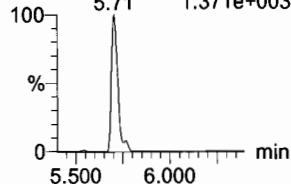
Name: 171227M2\_3, Date: 27-Dec-2017, Time: 17:47:52, ID: ST171227M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

**PFDoA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
1.299e+004

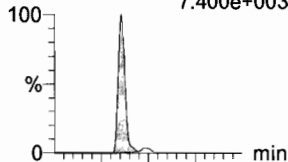


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
1.371e+003

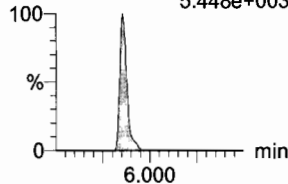


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
7.400e+003

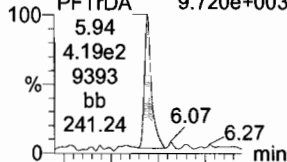


F33:MRM of 2 channels,ES-  
512.1 > 219  
5.448e+003

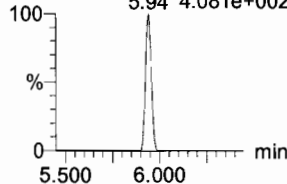


**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
9.720e+003

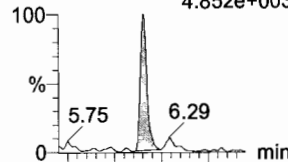


F56:MRM of 2 channels,ES-  
662.9 > 319  
4.081e+002

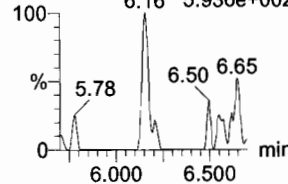


**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
4.852e+003

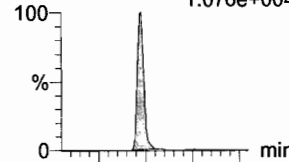


F57:MRM of 2 channels,ES-  
712.9 > 369  
5.936e+002

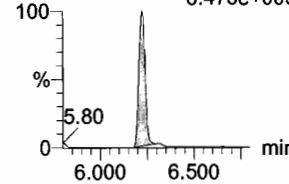


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
1.076e+004

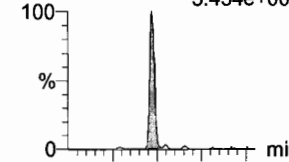


F38:MRM of 2 channels,ES-  
526.1 > 219  
6.476e+003

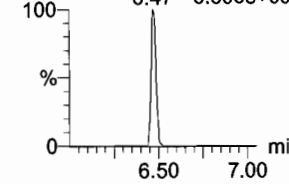


**PFHxDA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
5.454e+003

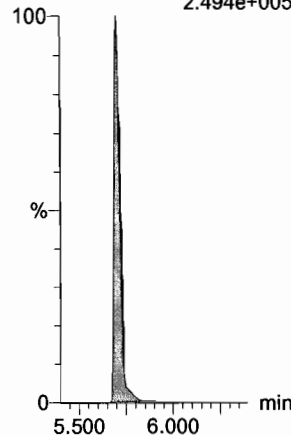


F59:MRM of 2 channels,ES-  
813.1 > 219  
6.606e+002



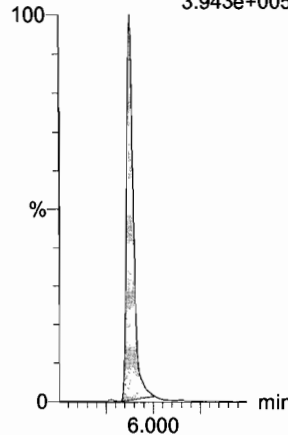
**13C2-PFDoA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.494e+005



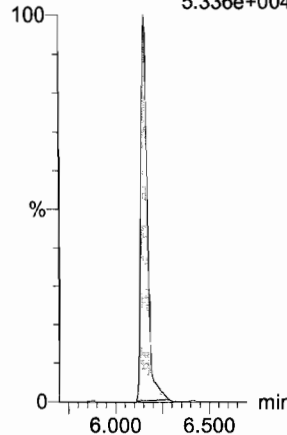
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.943e+005



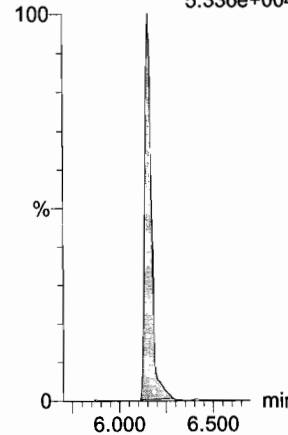
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
5.336e+004



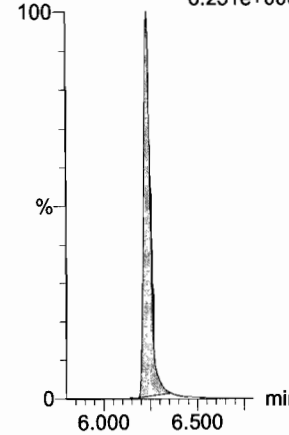
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
5.336e+004



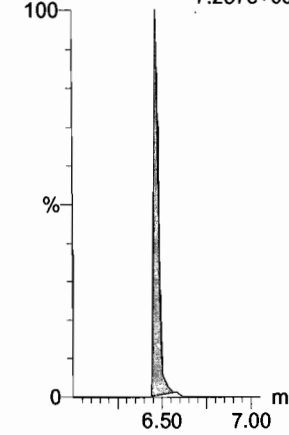
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
6.251e+005



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
7.257e+004

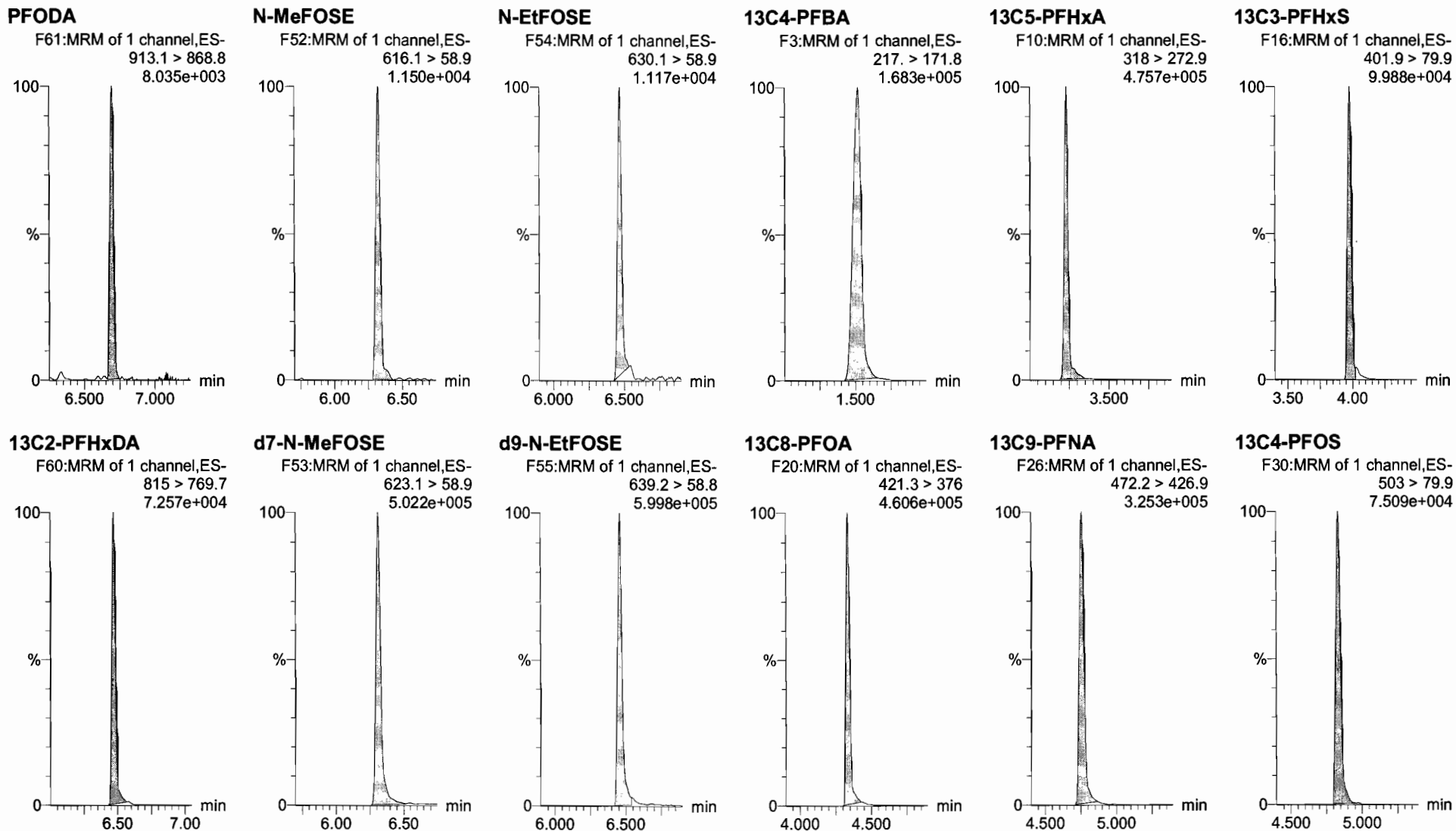


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_3, Date: 27-Dec-2017, Time: 17:47:52, ID: ST171227M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

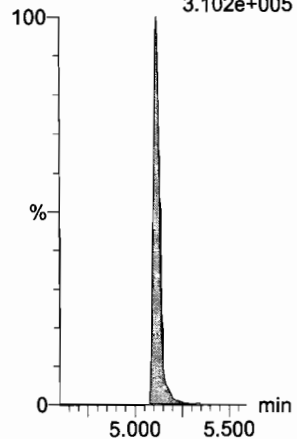
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_3, Date: 27-Dec-2017, Time: 17:47:52, ID: ST171227M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

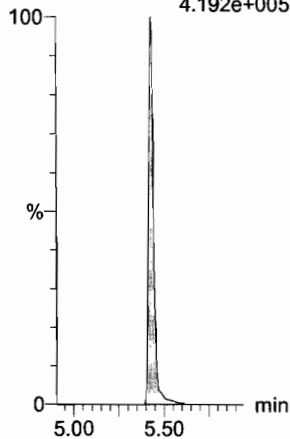
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.102e+005



13C7-PFUdA

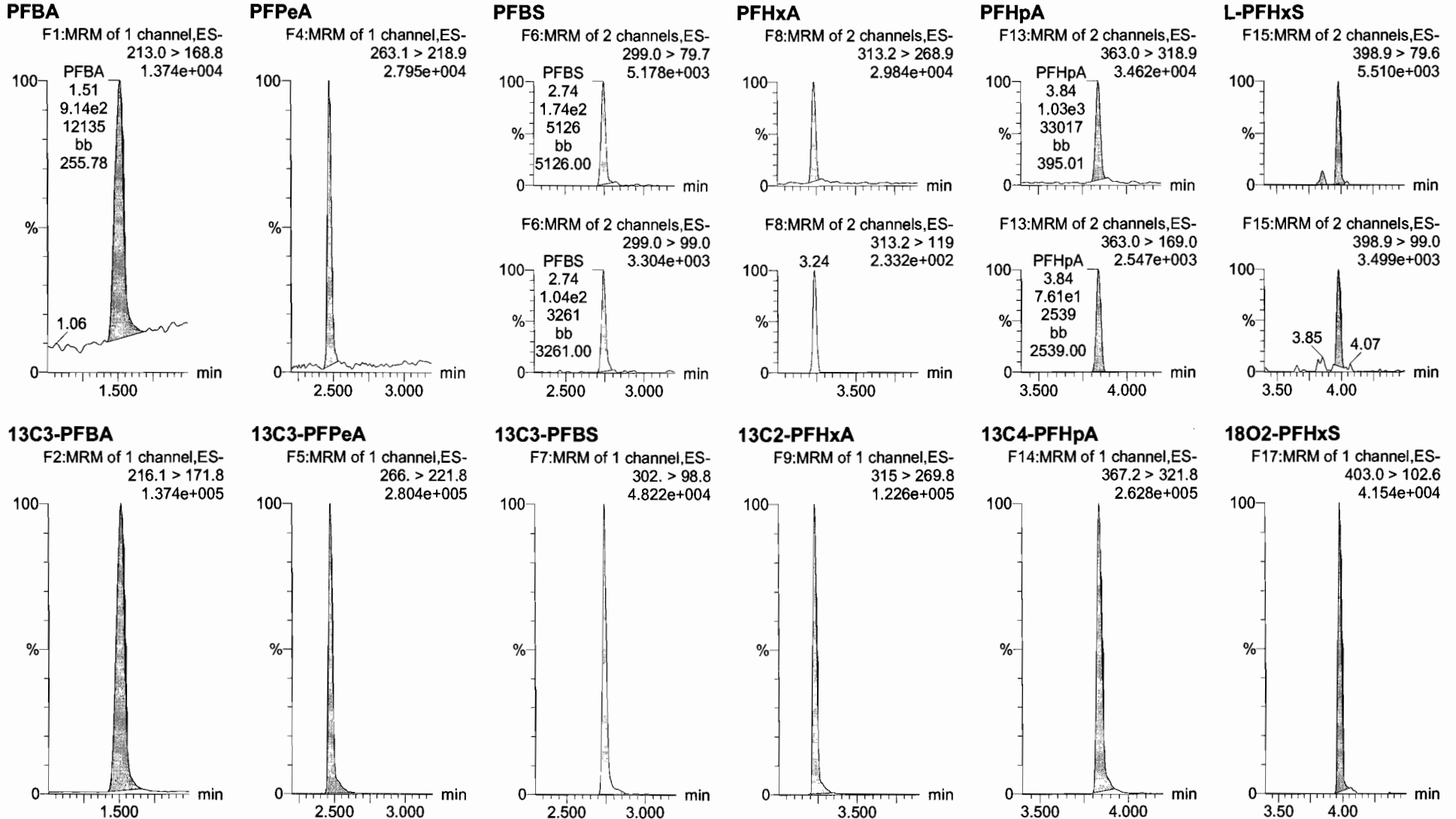
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
4.192e+005



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

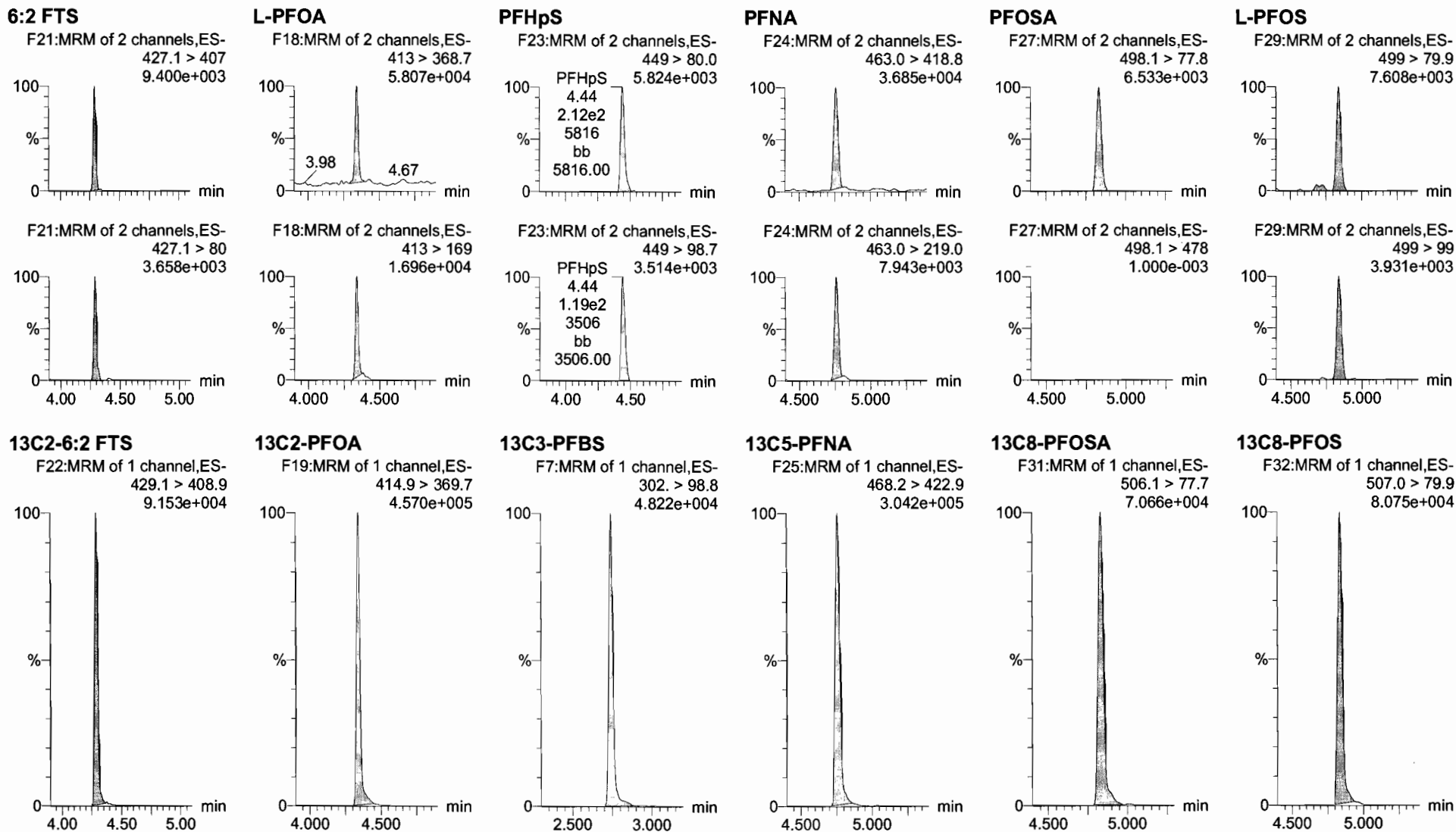
Name: 171227M2\_4, Date: 27-Dec-2017, Time: 17:59:02, ID: ST171227M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_4, Date: 27-Dec-2017, Time: 17:59:02, ID: ST171227M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608



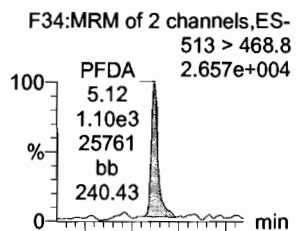
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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

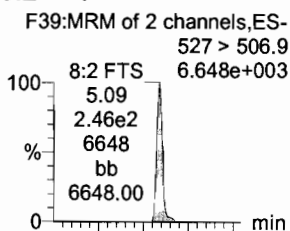
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_4, Date: 27-Dec-2017, Time: 17:59:02, ID: ST171227M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608

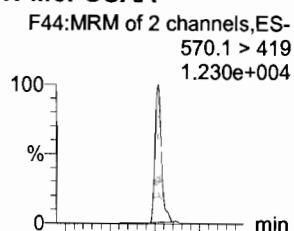
**PFDA**



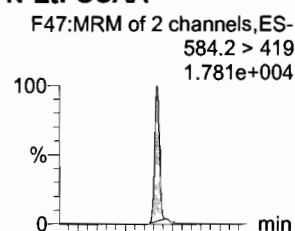
**8:2 FTS**



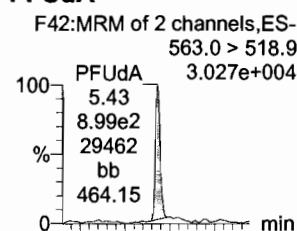
**N-MeFOSAA**



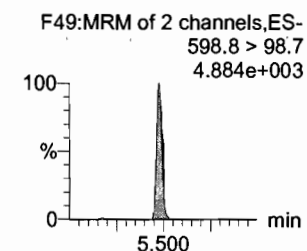
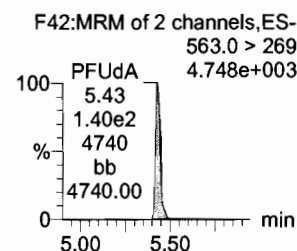
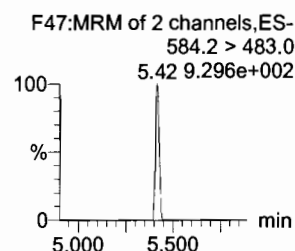
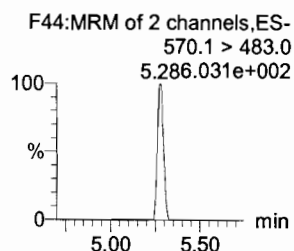
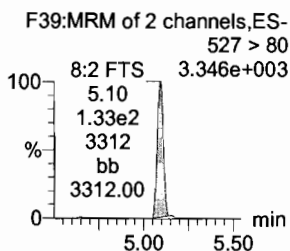
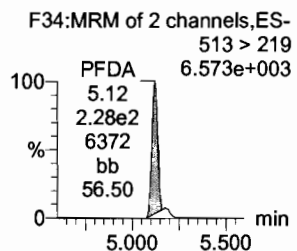
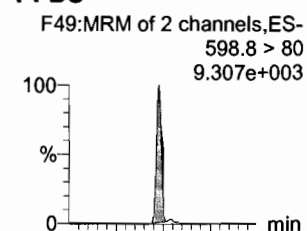
**N-EtFOSAA**



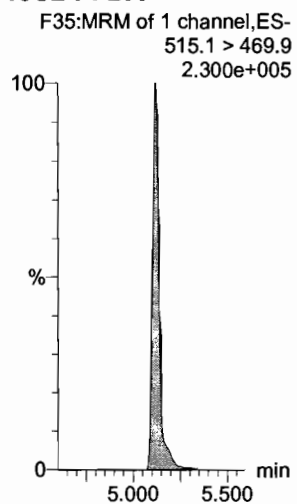
**PFUdA**



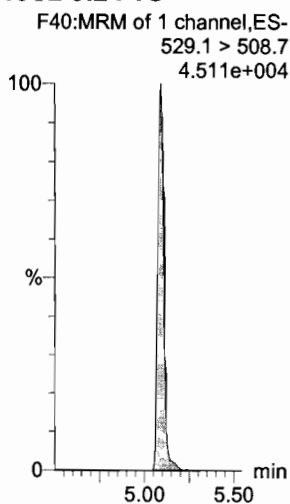
**PFDS**



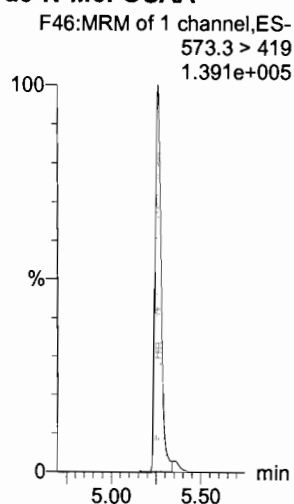
**13C2-PFDA**



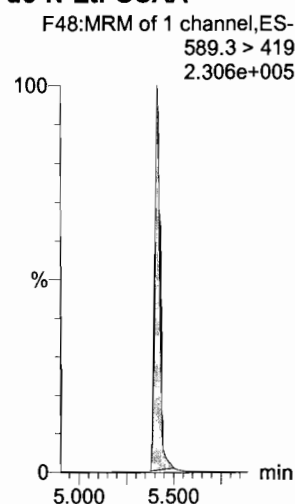
**13C2-8:2 FTS**



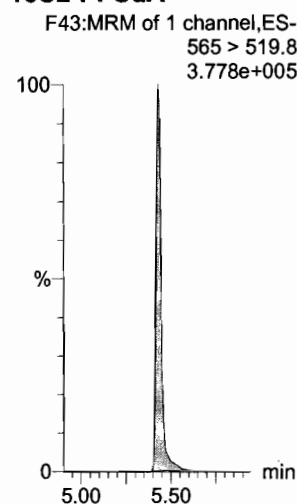
**d3-N-MeFOSAA**



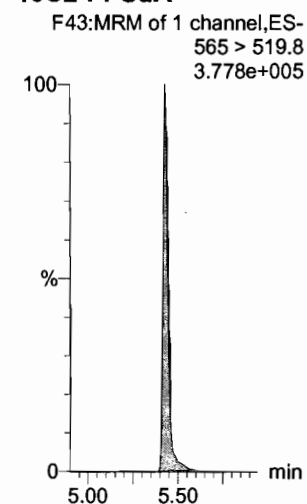
**d5-N-EtFOSAA**



**13C2-PFUdA**



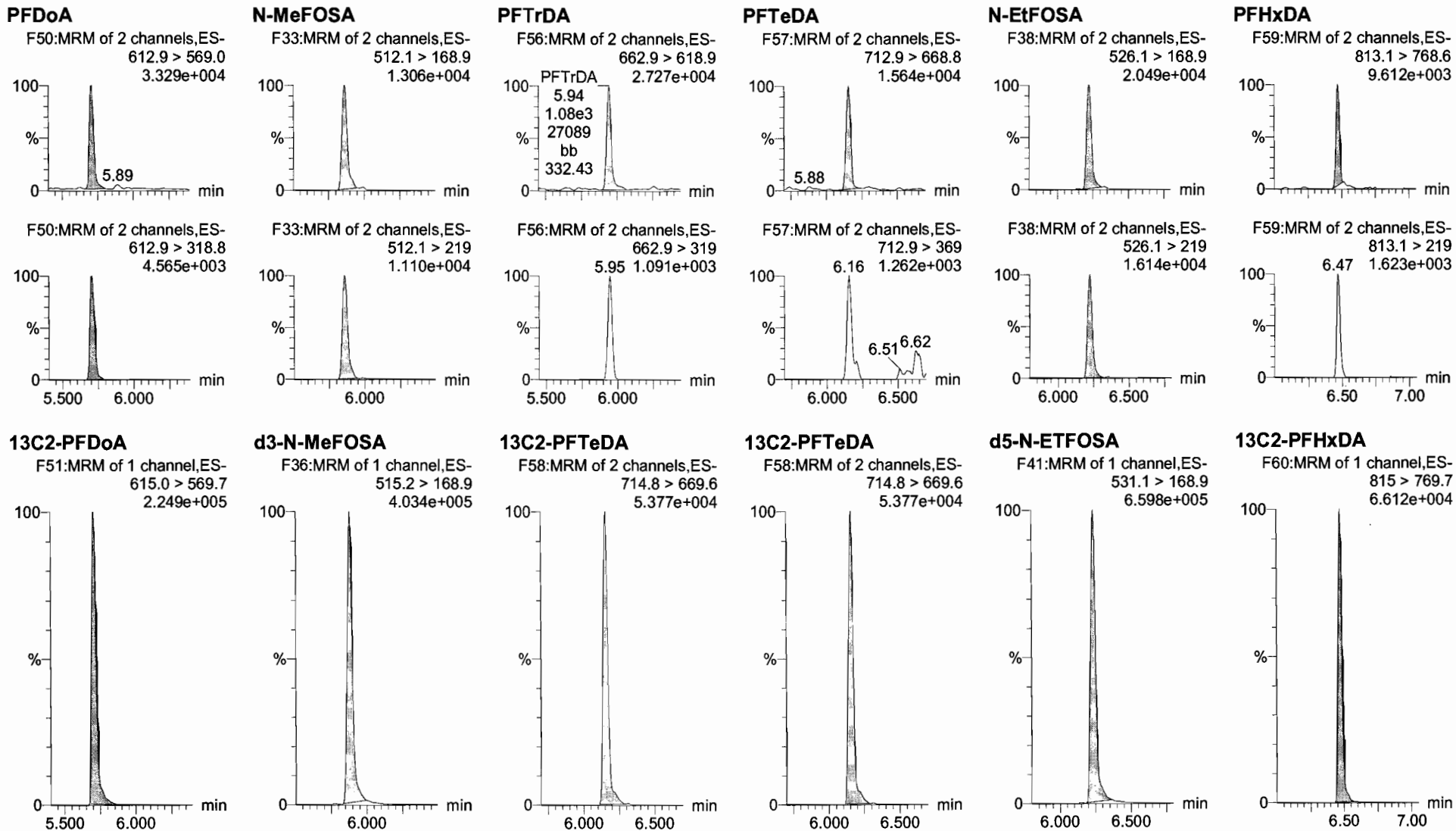
**13C2-PFUDa**



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_4, Date: 27-Dec-2017, Time: 17:59:02, ID: ST171227M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608

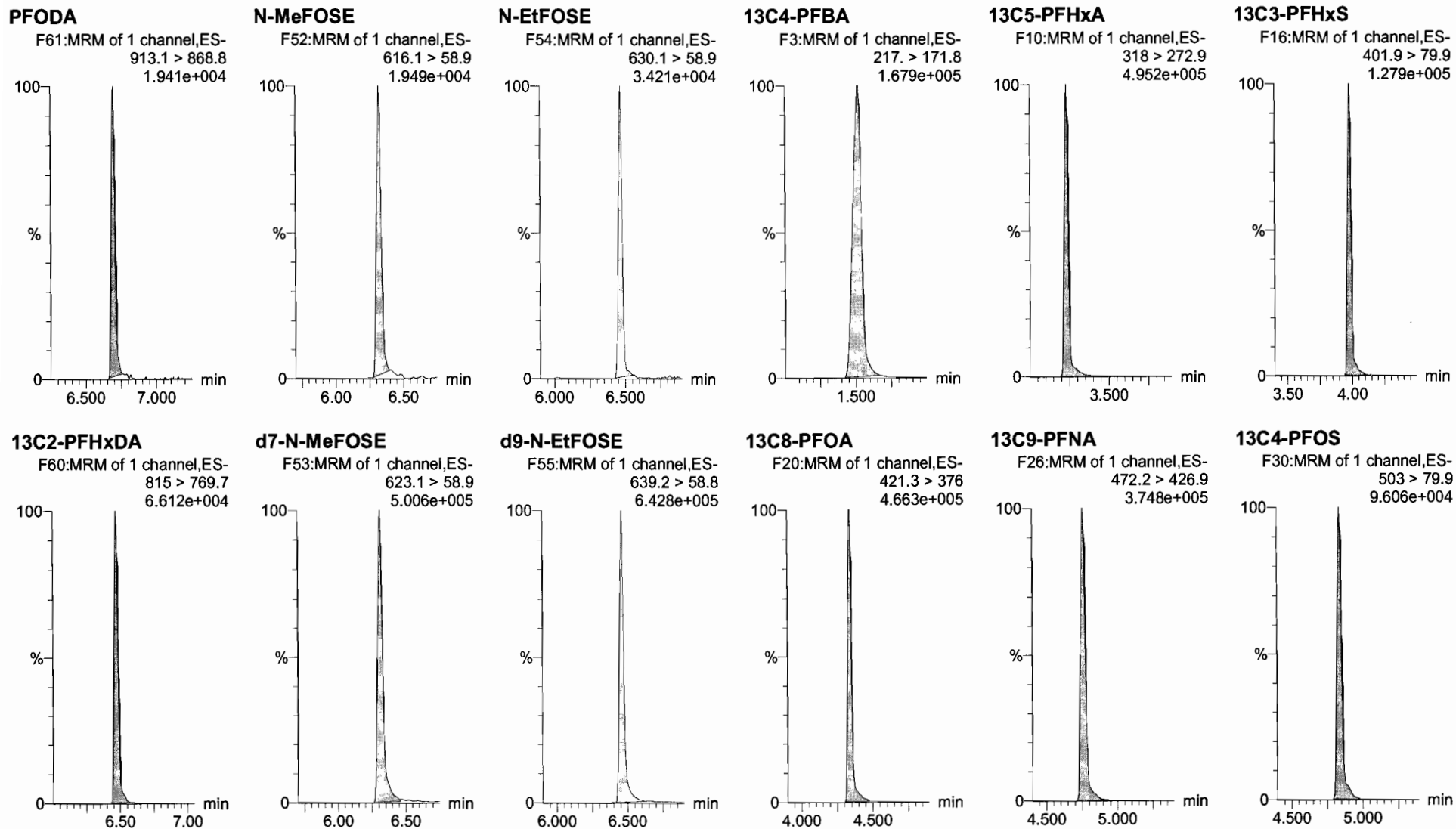


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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

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Name: 171227M2\_4, Date: 27-Dec-2017, Time: 17:59:02, ID: ST171227M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608





Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

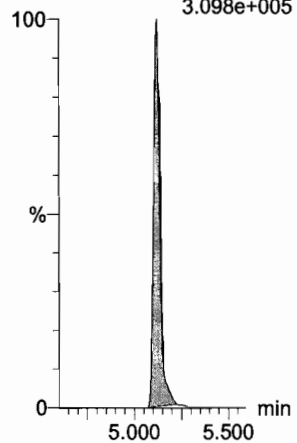
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_4, Date: 27-Dec-2017, Time: 17:59:02, ID: ST171227M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608

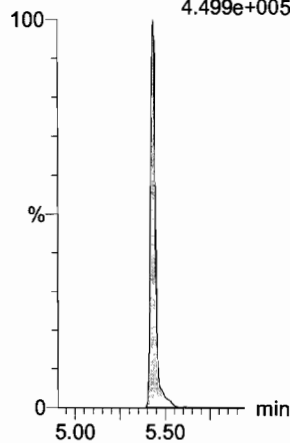
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.098e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
4.499e+005



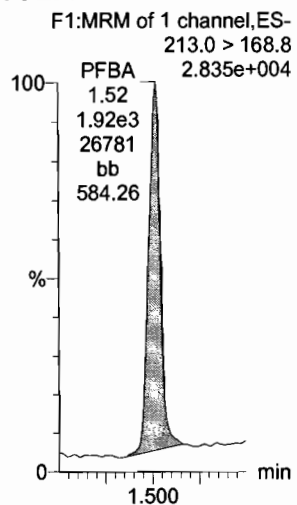
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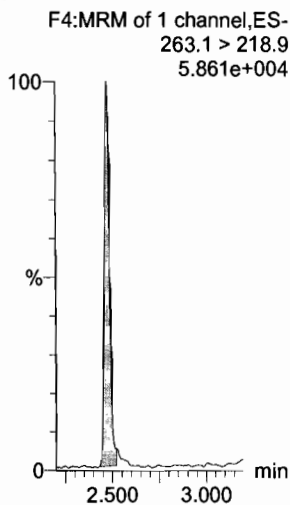
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_5, Date: 27-Dec-2017, Time: 18:10:13, ID: ST171227M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

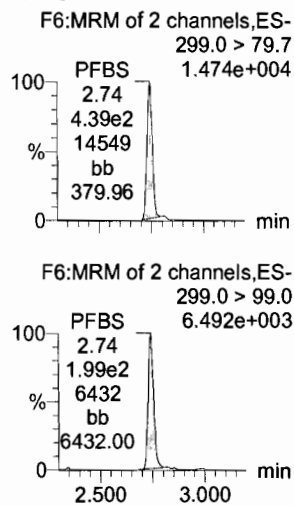
**PFBA**



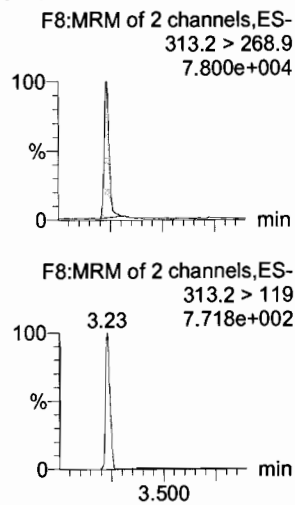
**PFPeA**



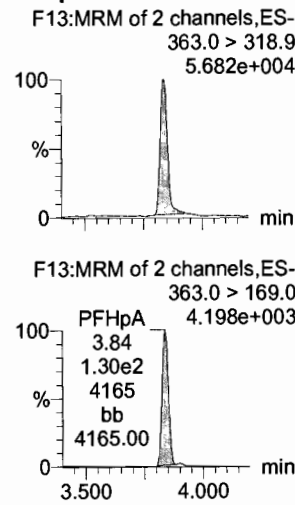
**PFBS**



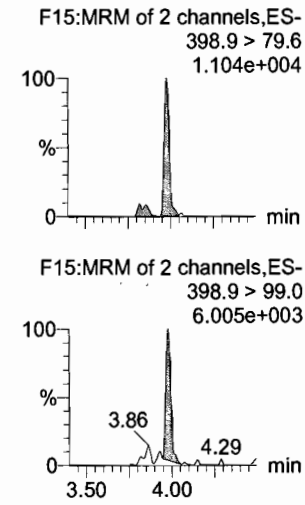
**PFHxA**



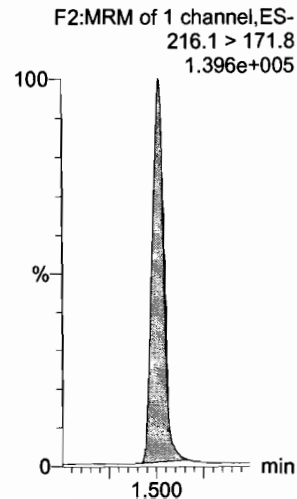
**PFHpA**



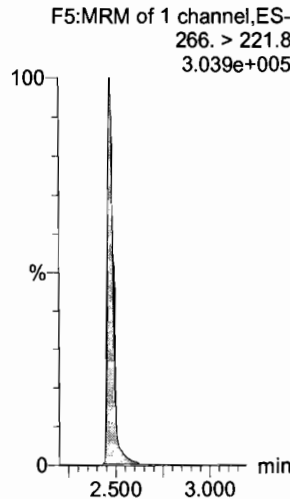
**L-PFHxS**



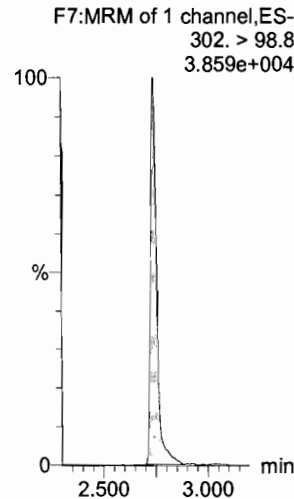
**13C3-PFBA**



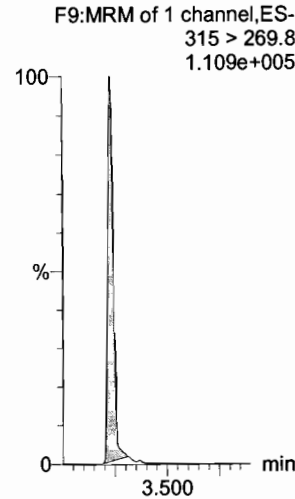
**13C3-PFPeA**



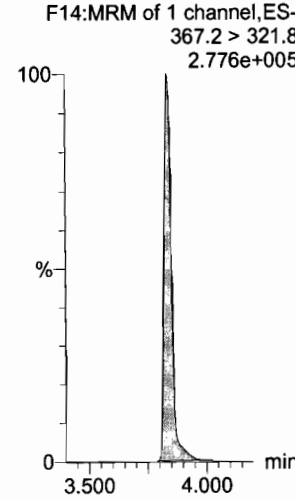
**13C3-PFBS**



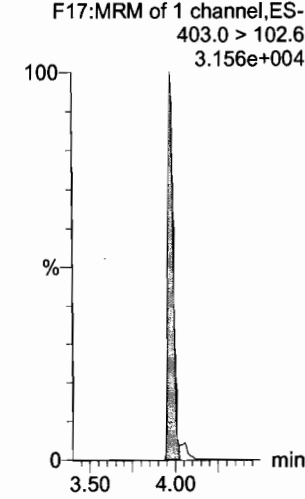
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

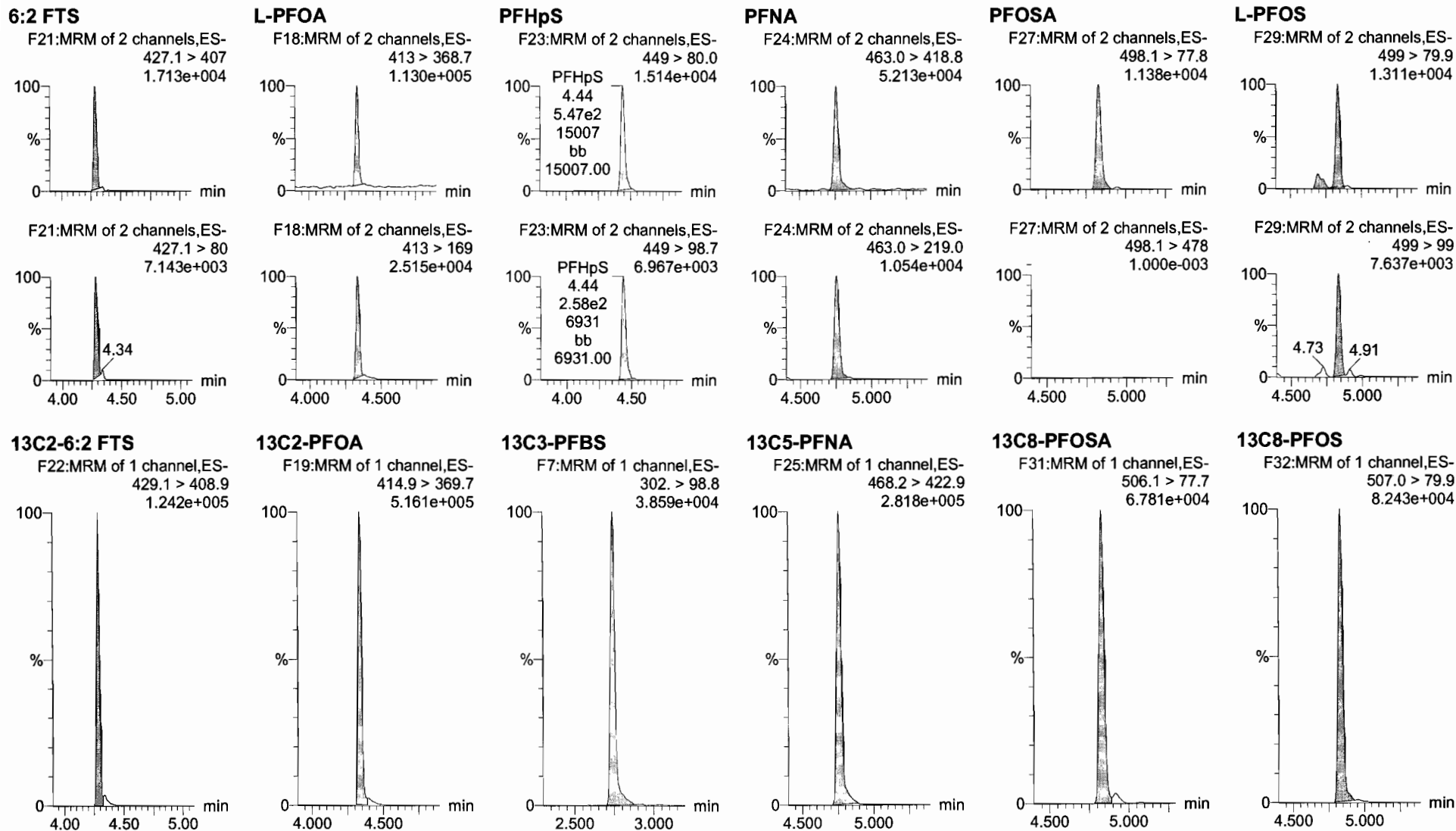


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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_5, Date: 27-Dec-2017, Time: 18:10:13, ID: ST171227M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609



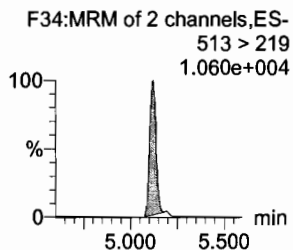
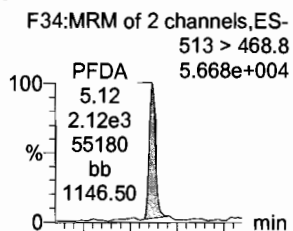
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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

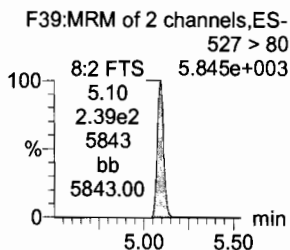
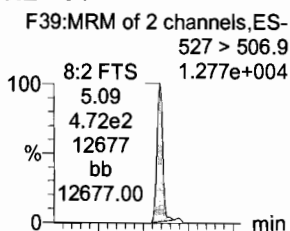
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_5, Date: 27-Dec-2017, Time: 18:10:13, ID: ST171227M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

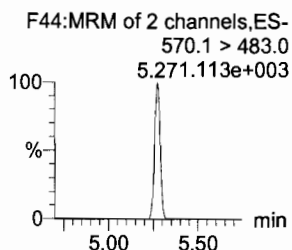
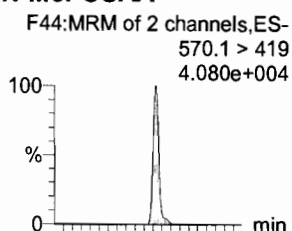
**PFDA**



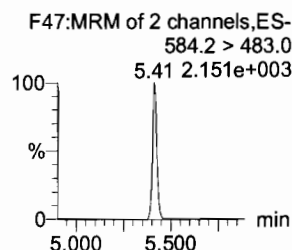
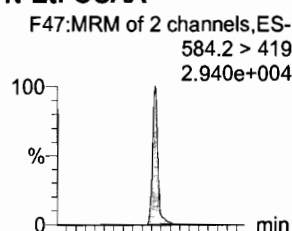
**8:2 FTS**



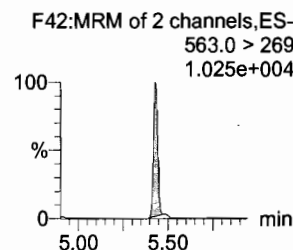
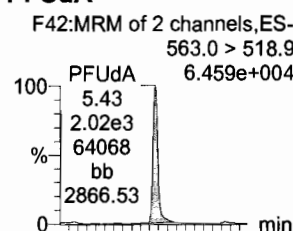
**N-MeFOSAA**



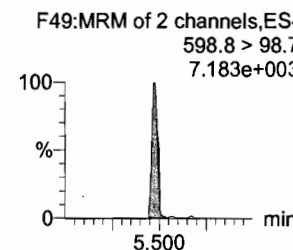
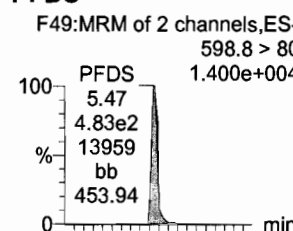
**N-EtFOSAA**



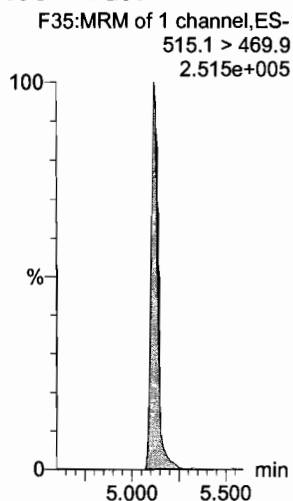
**PFUdA**



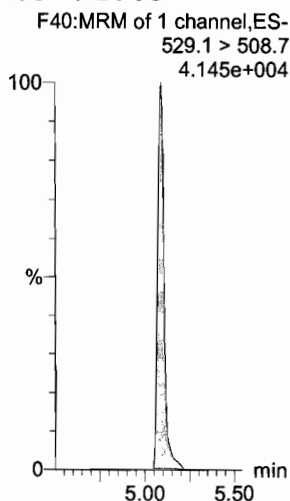
**PFDS**



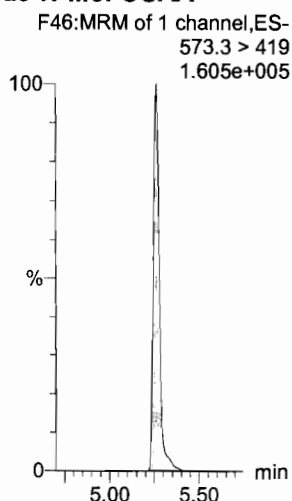
**13C2-PFDA**



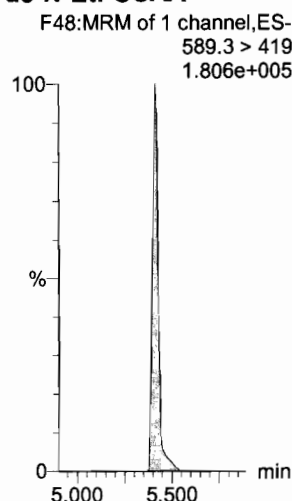
**13C2-8:2 FTS**



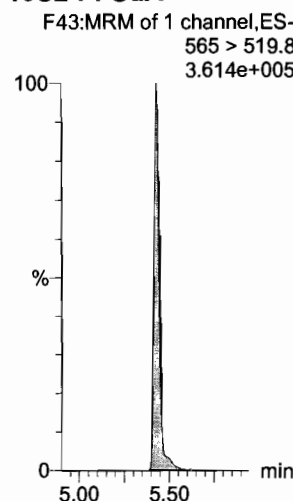
**d3-N-MeFOSAA**



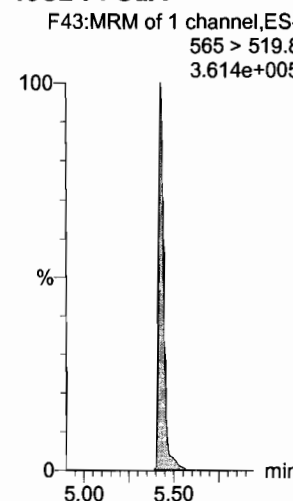
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

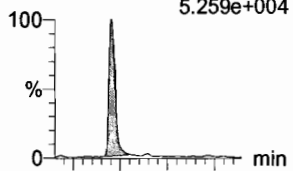
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_5, Date: 27-Dec-2017, Time: 18:10:13, ID: ST171227M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

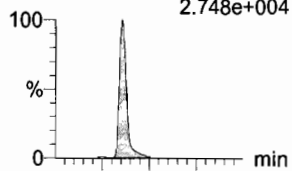
**PFDoA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
5.259e+004



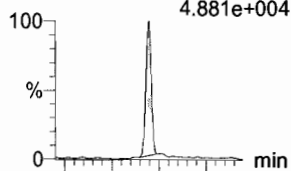
**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.748e+004



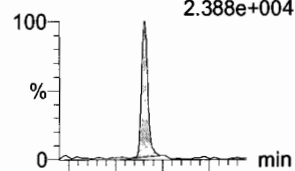
**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
4.881e+004



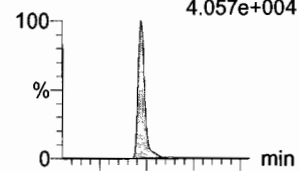
**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
2.388e+004



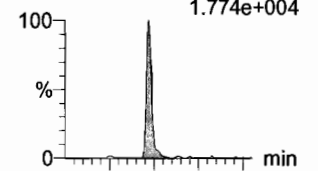
**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
4.057e+004

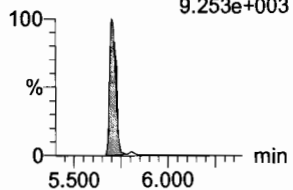


**PFHxDA**

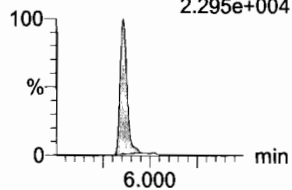
F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.774e+004



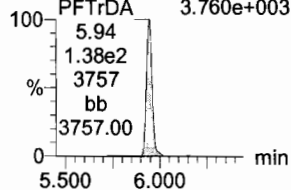
F50:MRM of 2 channels,ES-  
612.9 > 318.8  
9.253e+003



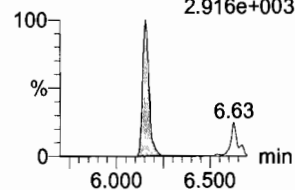
F33:MRM of 2 channels,ES-  
512.1 > 219  
2.295e+004



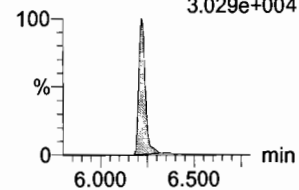
F56:MRM of 2 channels,ES-  
662.9 > 319  
3.760e+003



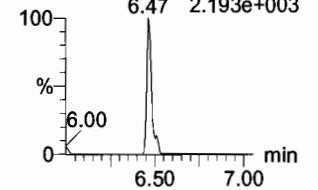
F57:MRM of 2 channels,ES-  
712.9 > 369  
2.916e+003



F38:MRM of 2 channels,ES-  
526.1 > 219  
3.029e+004

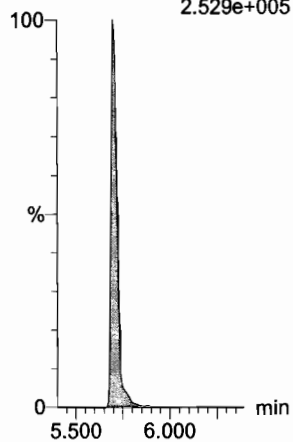


F59:MRM of 2 channels,ES-  
813.1 > 219  
2.193e+003



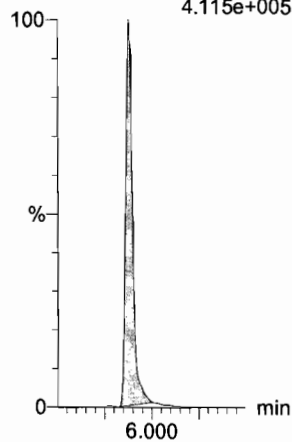
**13C2-PFDoA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.529e+005



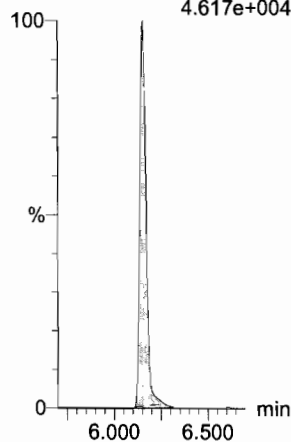
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
4.115e+005



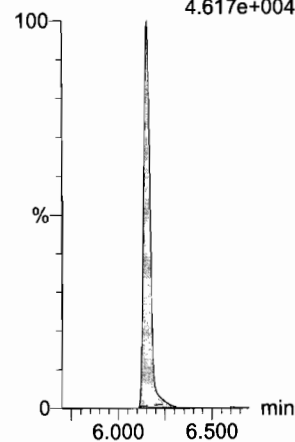
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
4.617e+004



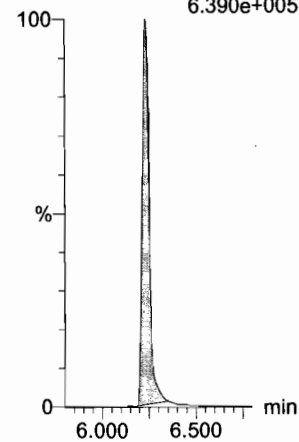
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
4.617e+004



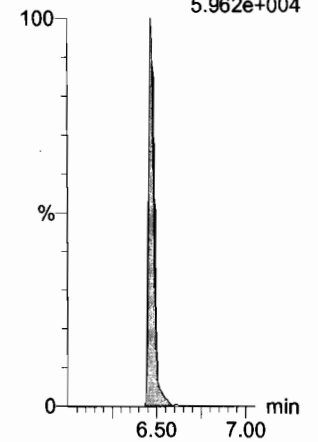
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
6.390e+005



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
5.962e+004

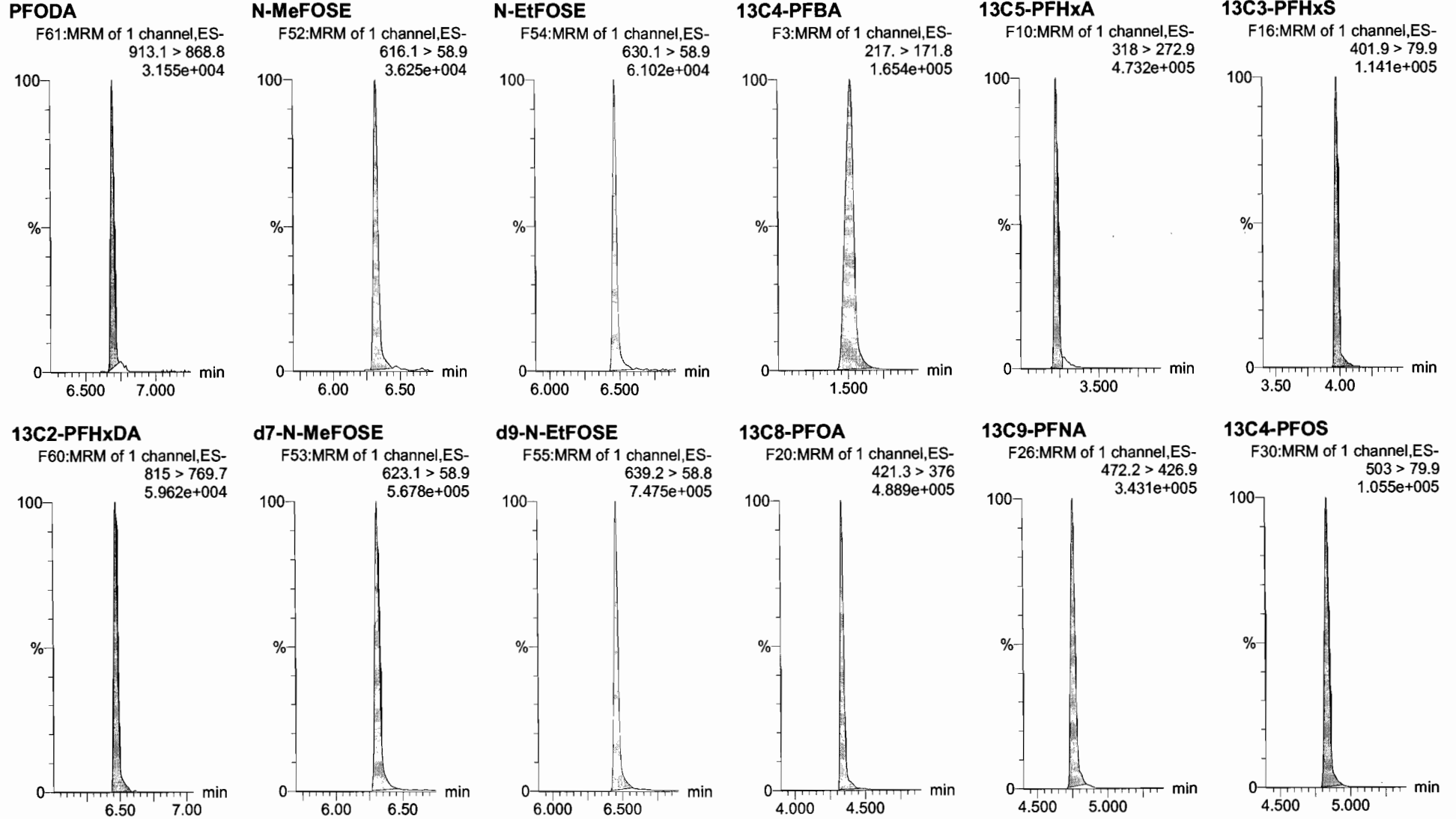


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_5, Date: 27-Dec-2017, Time: 18:10:13, ID: ST171227M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609



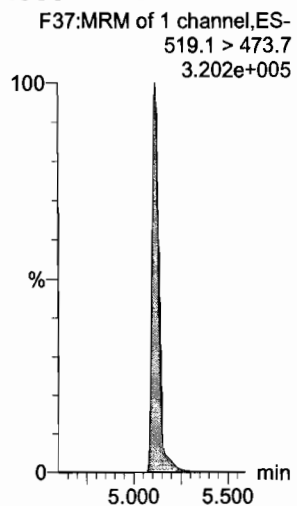
Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

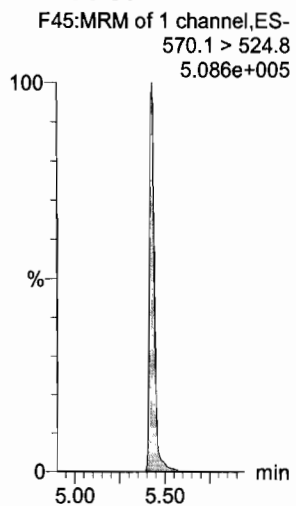
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_5, Date: 27-Dec-2017, Time: 18:10:13, ID: ST171227M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

13C6-PFDA



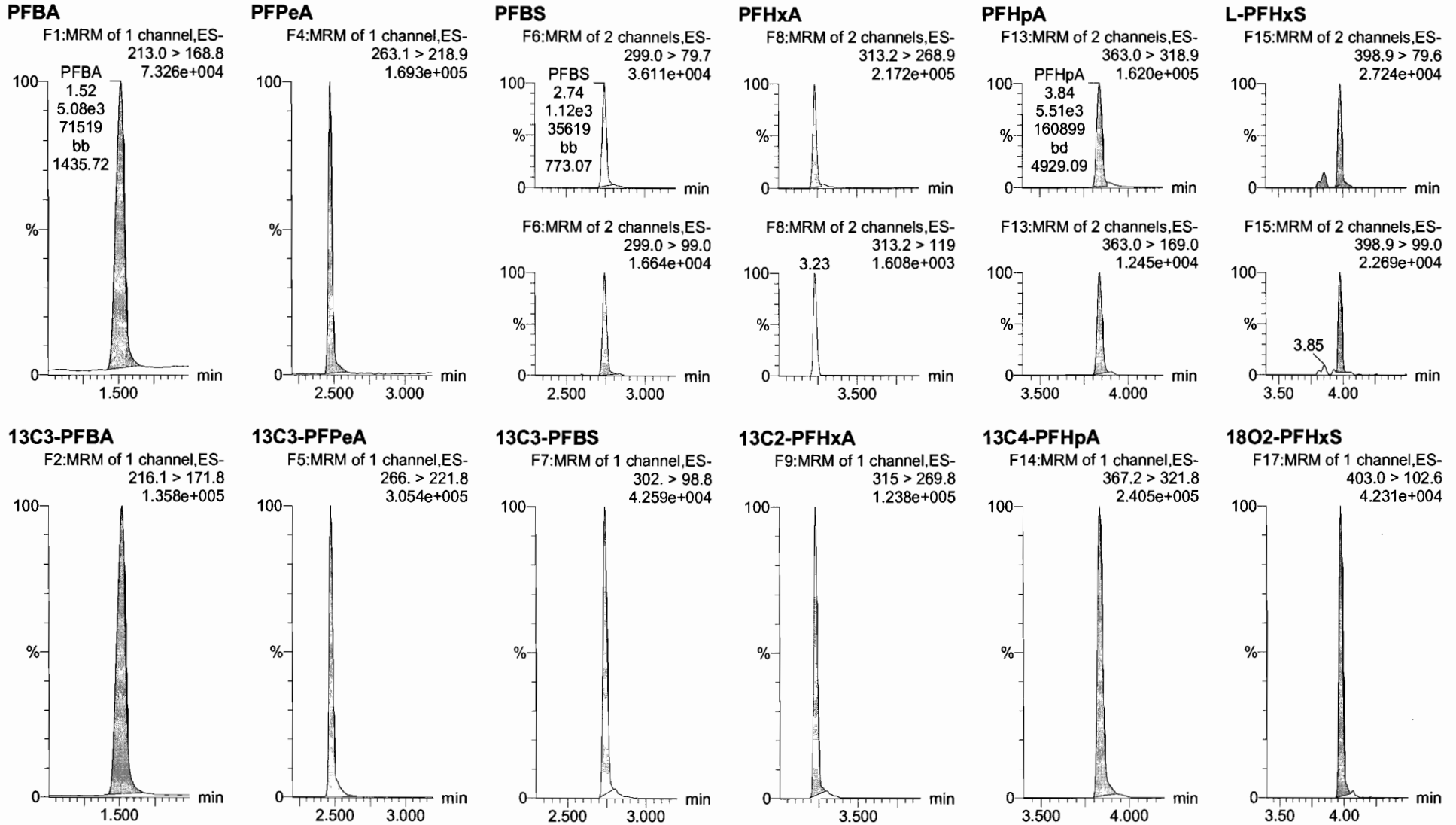
13C7-PFUdA



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_6, Date: 27-Dec-2017, Time: 18:21:24, ID: ST171227M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610





Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

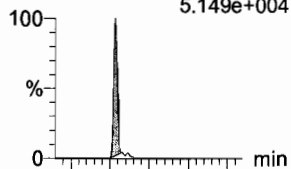
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_6, Date: 27-Dec-2017, Time: 18:21:24, ID: ST171227M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

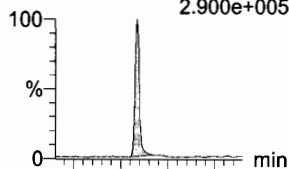
**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
5.149e+004



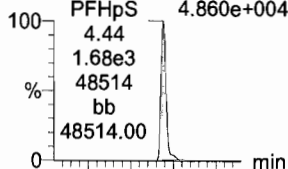
**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
2.900e+005



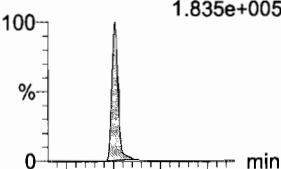
**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
4.860e+004



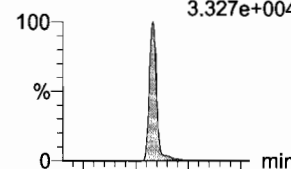
**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
1.835e+005



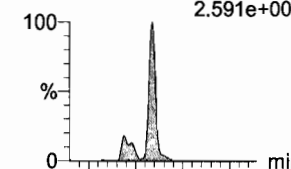
**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
3.327e+004

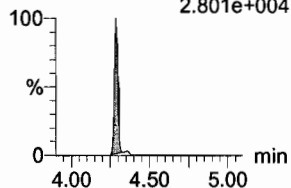


**L-PFOS**

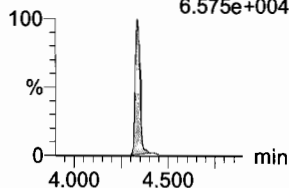
F29:MRM of 2 channels,ES-  
499 > 79.9  
2.591e+004



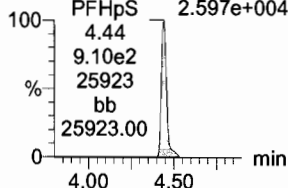
F21:MRM of 2 channels,ES-  
427.1 > 80  
2.801e+004



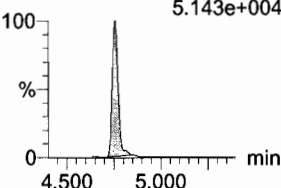
F18:MRM of 2 channels,ES-  
413 > 169  
6.575e+004



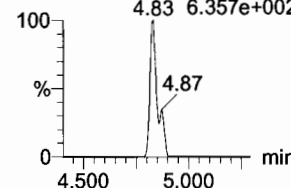
F23:MRM of 2 channels,ES-  
449 > 98.7  
2.597e+004



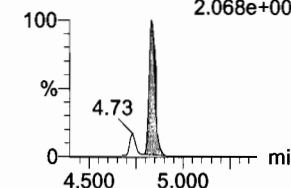
F24:MRM of 2 channels,ES-  
463.0 > 219.0  
5.143e+004



F27:MRM of 2 channels,ES-  
498.1 > 478  
6.357e+002

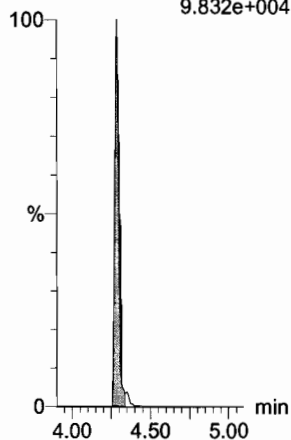


F29:MRM of 2 channels,ES-  
499 > 99  
2.068e+004



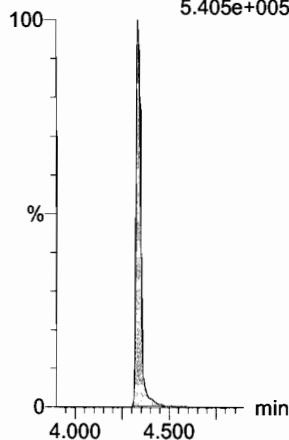
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
9.832e+004



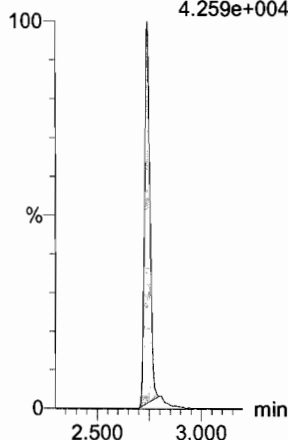
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
5.405e+005



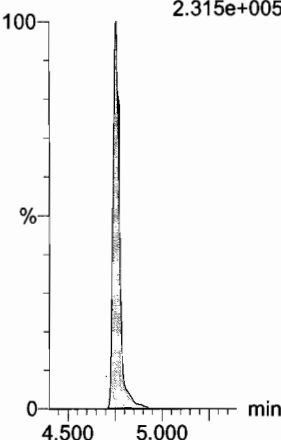
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
4.259e+004



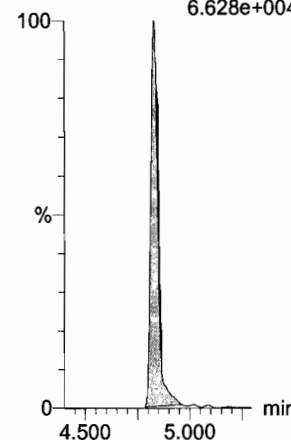
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.315e+005



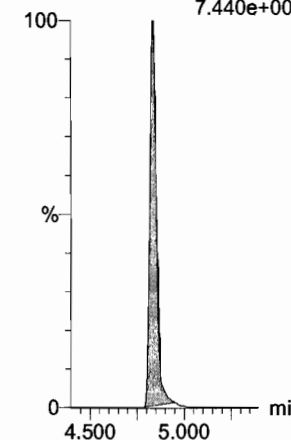
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
6.628e+004



**13C8-PFOS**

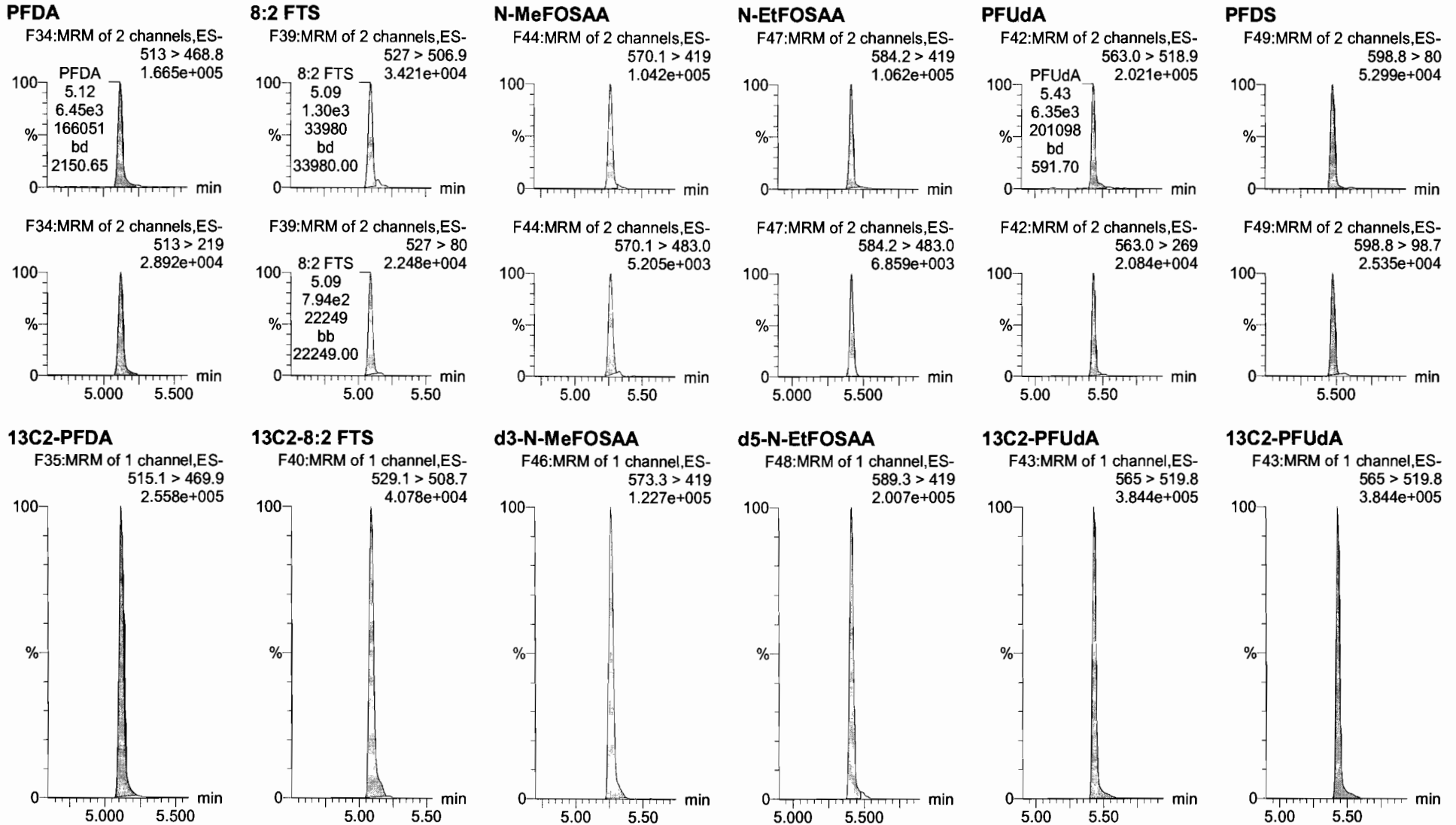
F32:MRM of 1 channel,ES-  
507.0 > 79.9  
7.440e+004



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

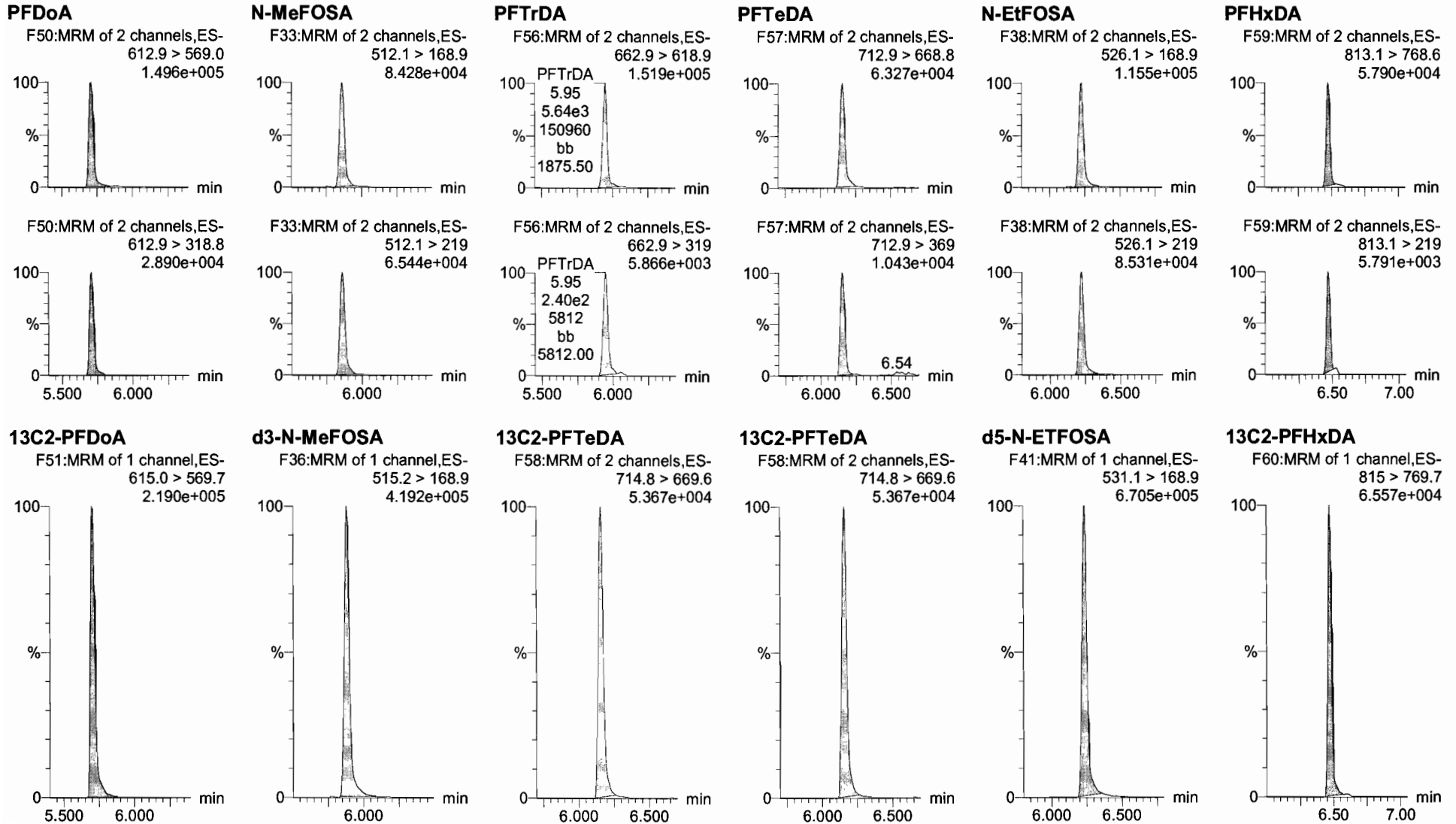
Name: 171227M2\_6, Date: 27-Dec-2017, Time: 18:21:24, ID: ST171227M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_6, Date: 27-Dec-2017, Time: 18:21:24, ID: ST171227M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

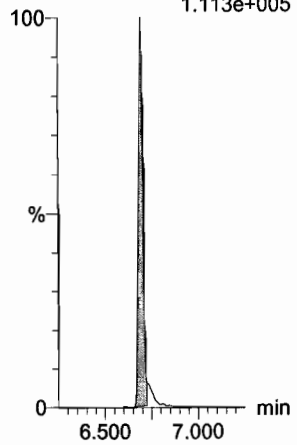
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_6, Date: 27-Dec-2017, Time: 18:21:24, ID: ST171227M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

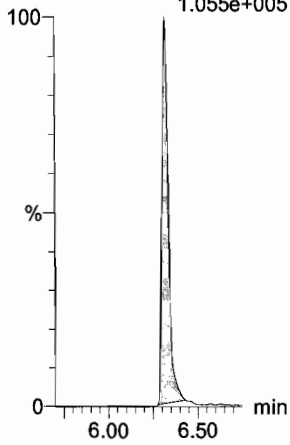
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
1.113e+005



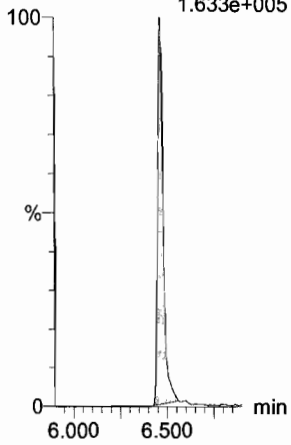
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
1.055e+005



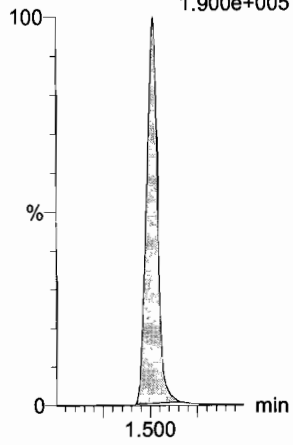
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
1.633e+005



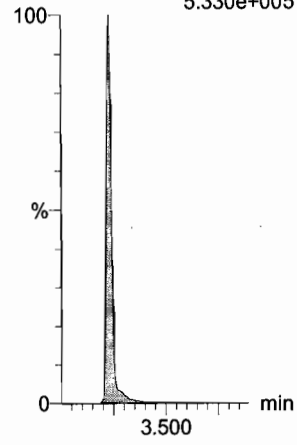
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.900e+005



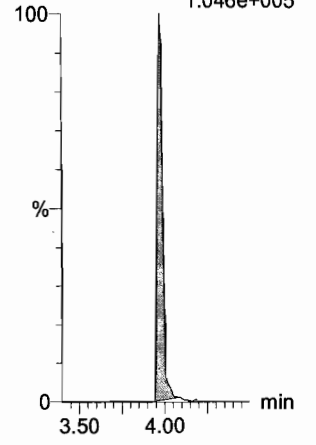
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
5.330e+005



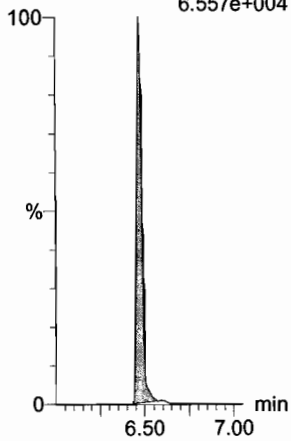
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
1.046e+005



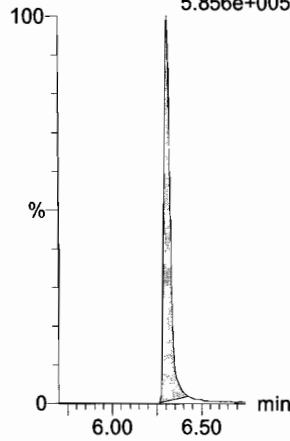
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
6.557e+004



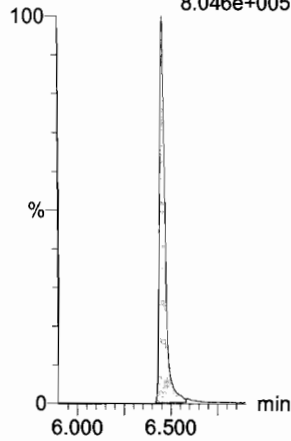
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
5.856e+005



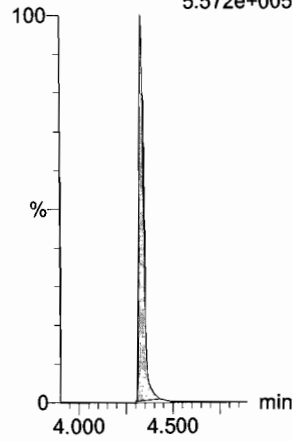
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
8.046e+005



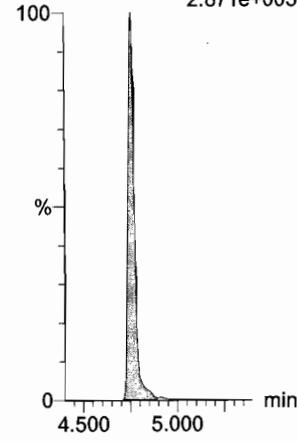
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
5.572e+005



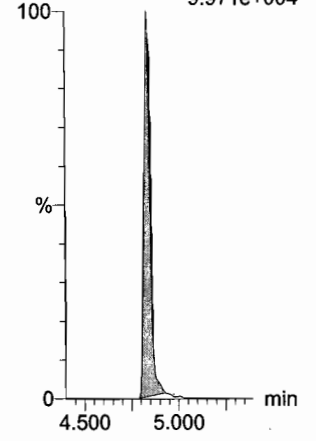
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.871e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
9.971e+004



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

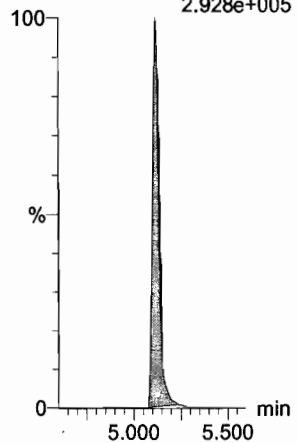
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_6, Date: 27-Dec-2017, Time: 18:21:24, ID: ST171227M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

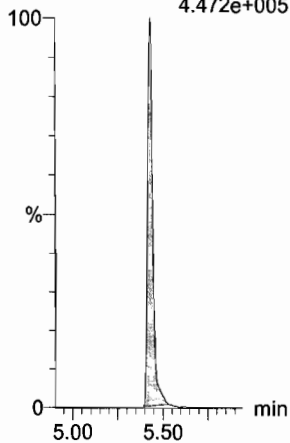
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.928e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
4.472e+005



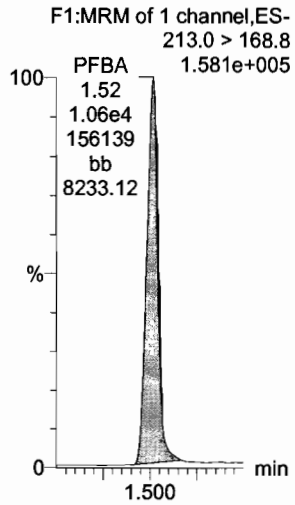
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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

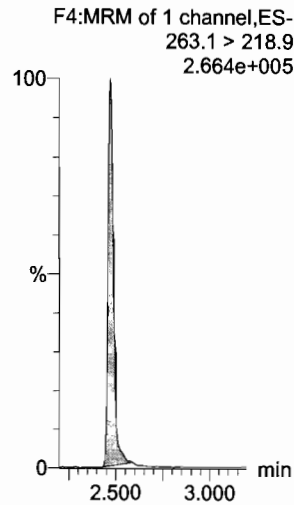
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_7, Date: 27-Dec-2017, Time: 18:32:34, ID: ST171227M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

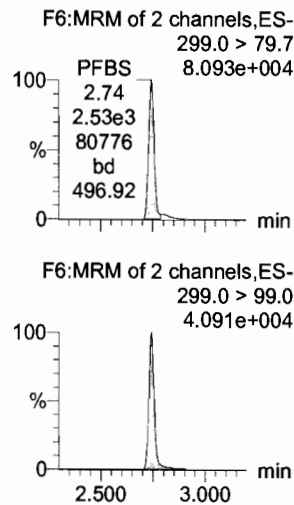
**PFBA**



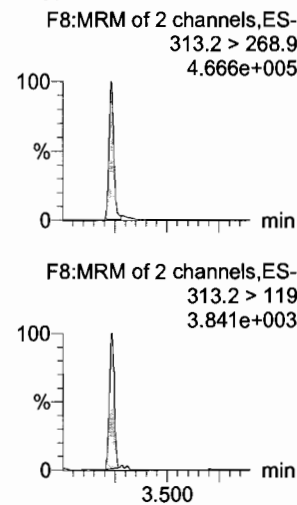
**PFPeA**



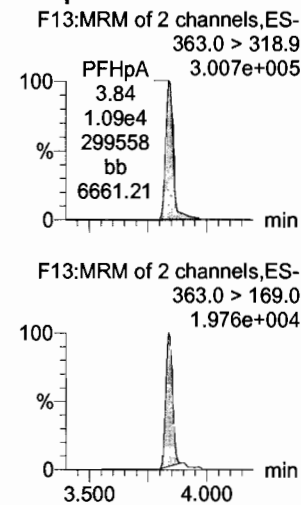
**PFBS**



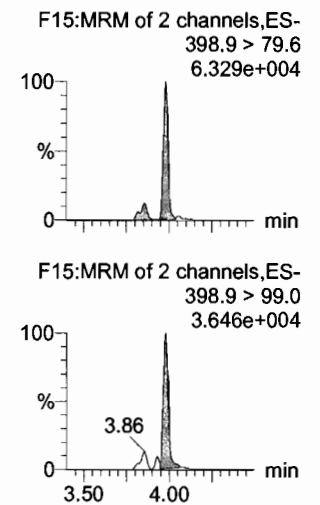
**PFHxA**



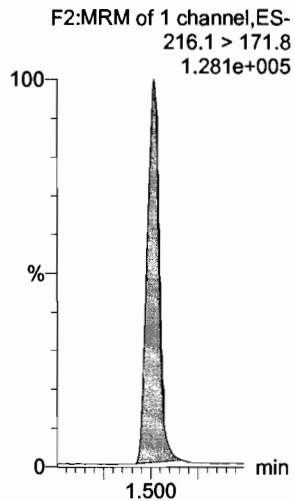
**PFHpA**



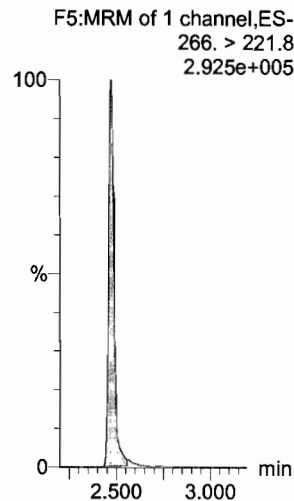
**L-PFHxS**



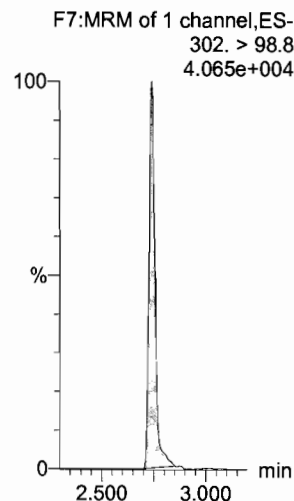
**13C3-PFBA**



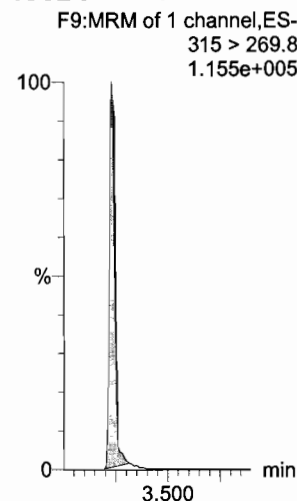
**13C3-PFPeA**



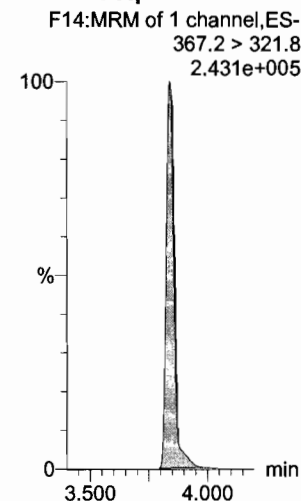
**13C3-PFBS**



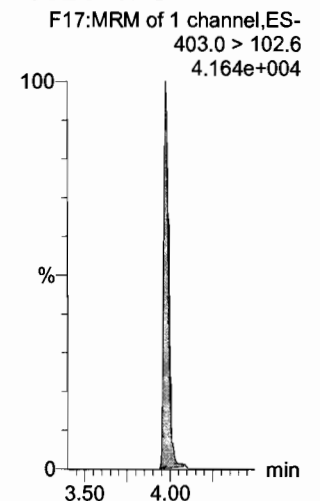
**13C2-PFHxA**



**13C4-PFHpA**



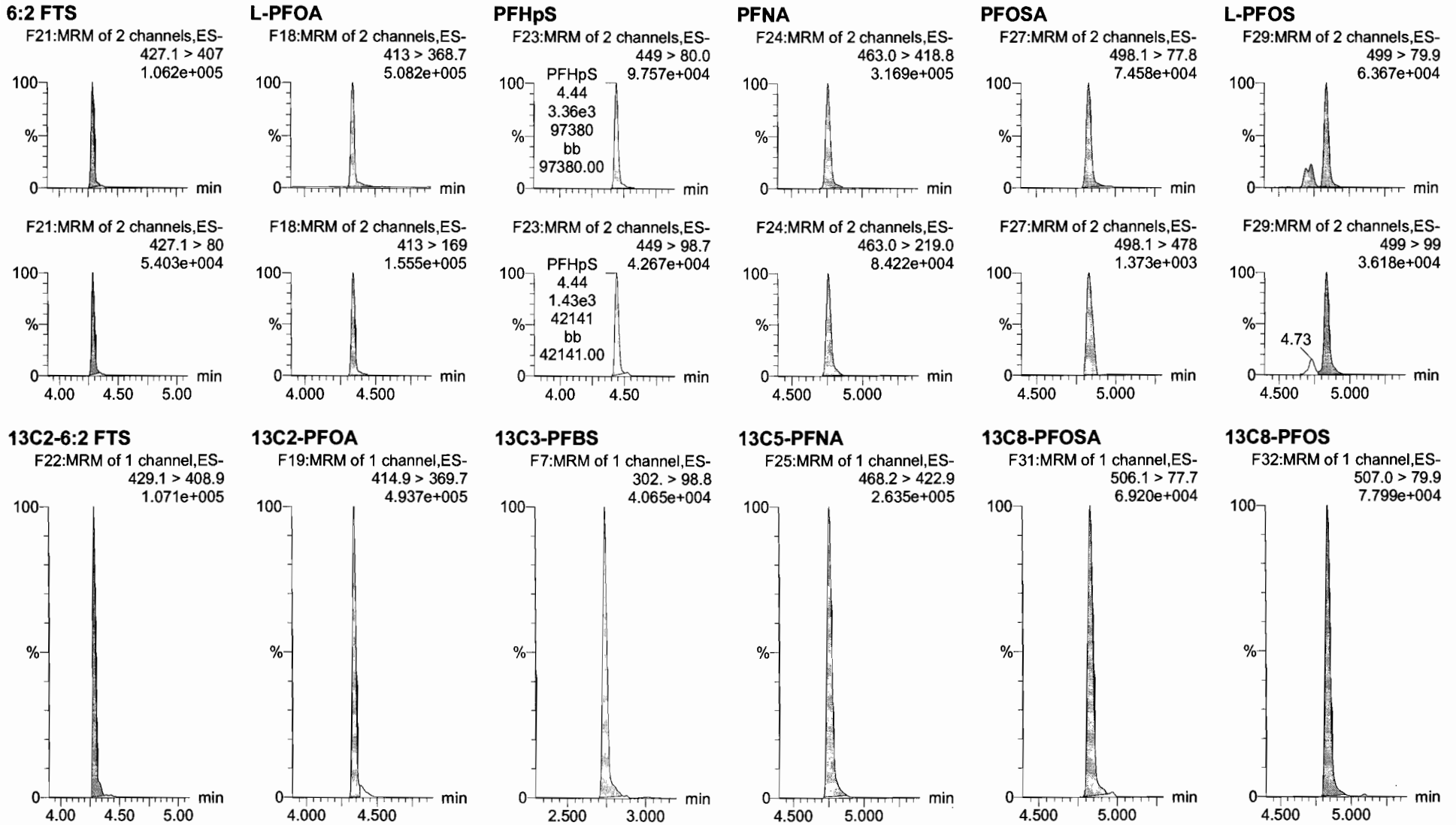
**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

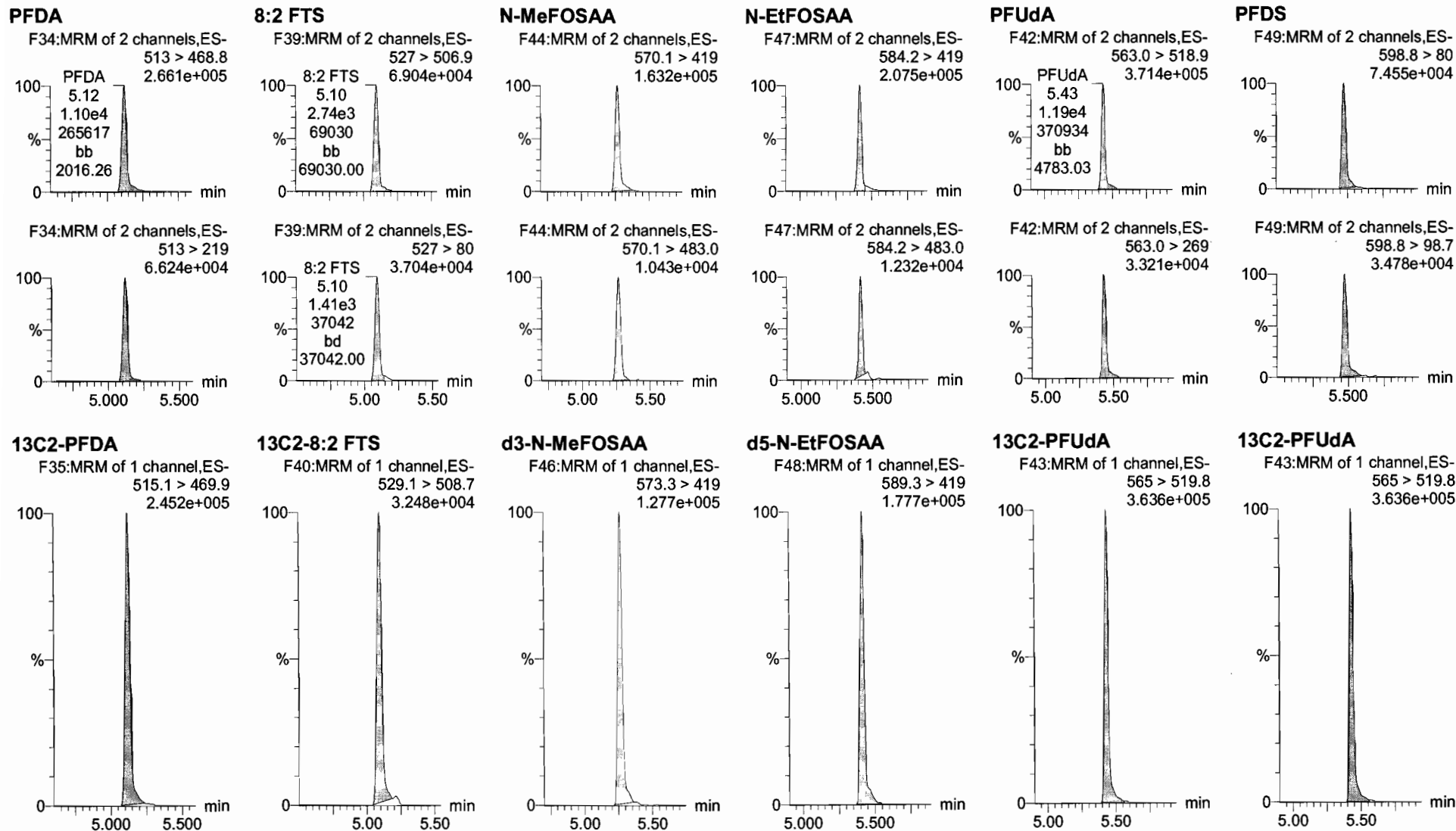
Name: 171227M2\_7, Date: 27-Dec-2017, Time: 18:32:34, ID: ST171227M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_7, Date: 27-Dec-2017, Time: 18:32:34, ID: ST171227M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611



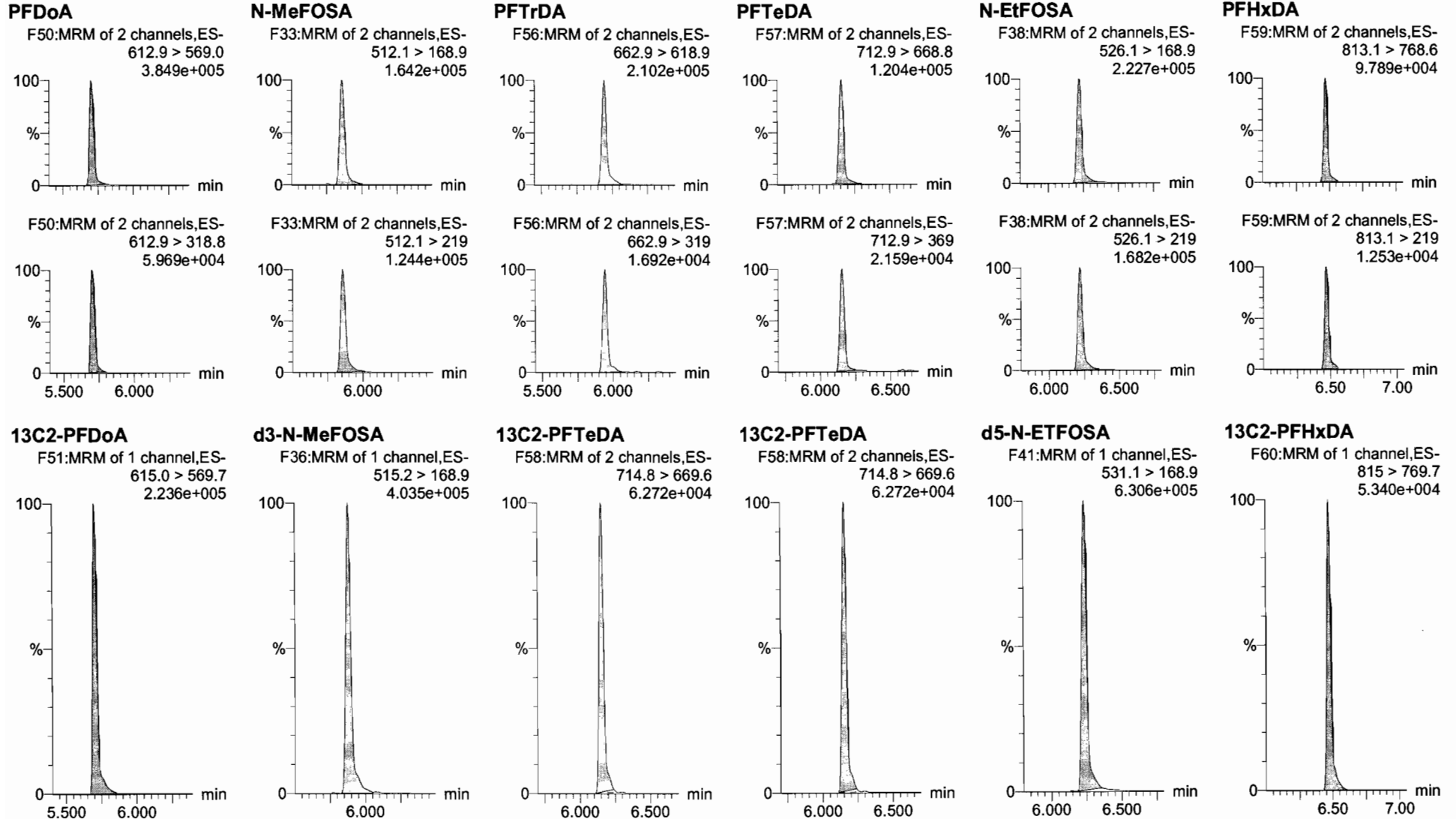


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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_7, Date: 27-Dec-2017, Time: 18:32:34, ID: ST171227M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

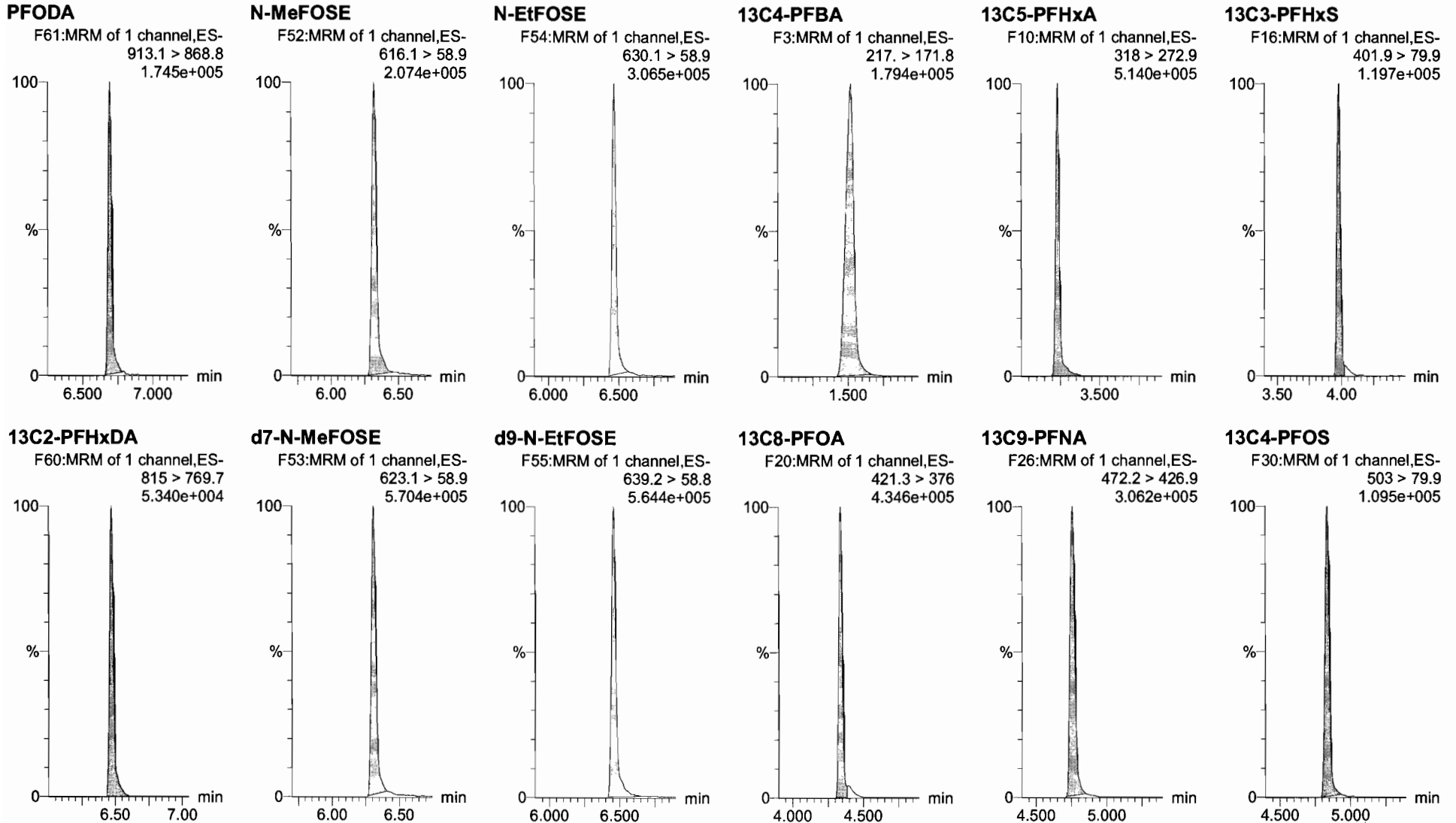


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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_7, Date: 27-Dec-2017, Time: 18:32:34, ID: ST171227M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

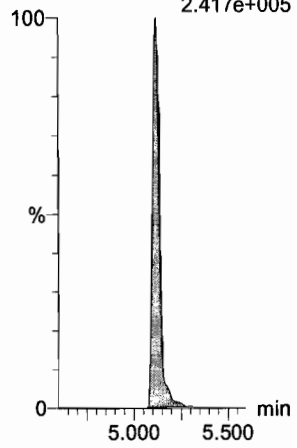
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

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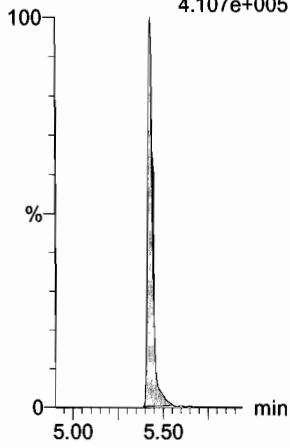
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.417e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
4.107e+005

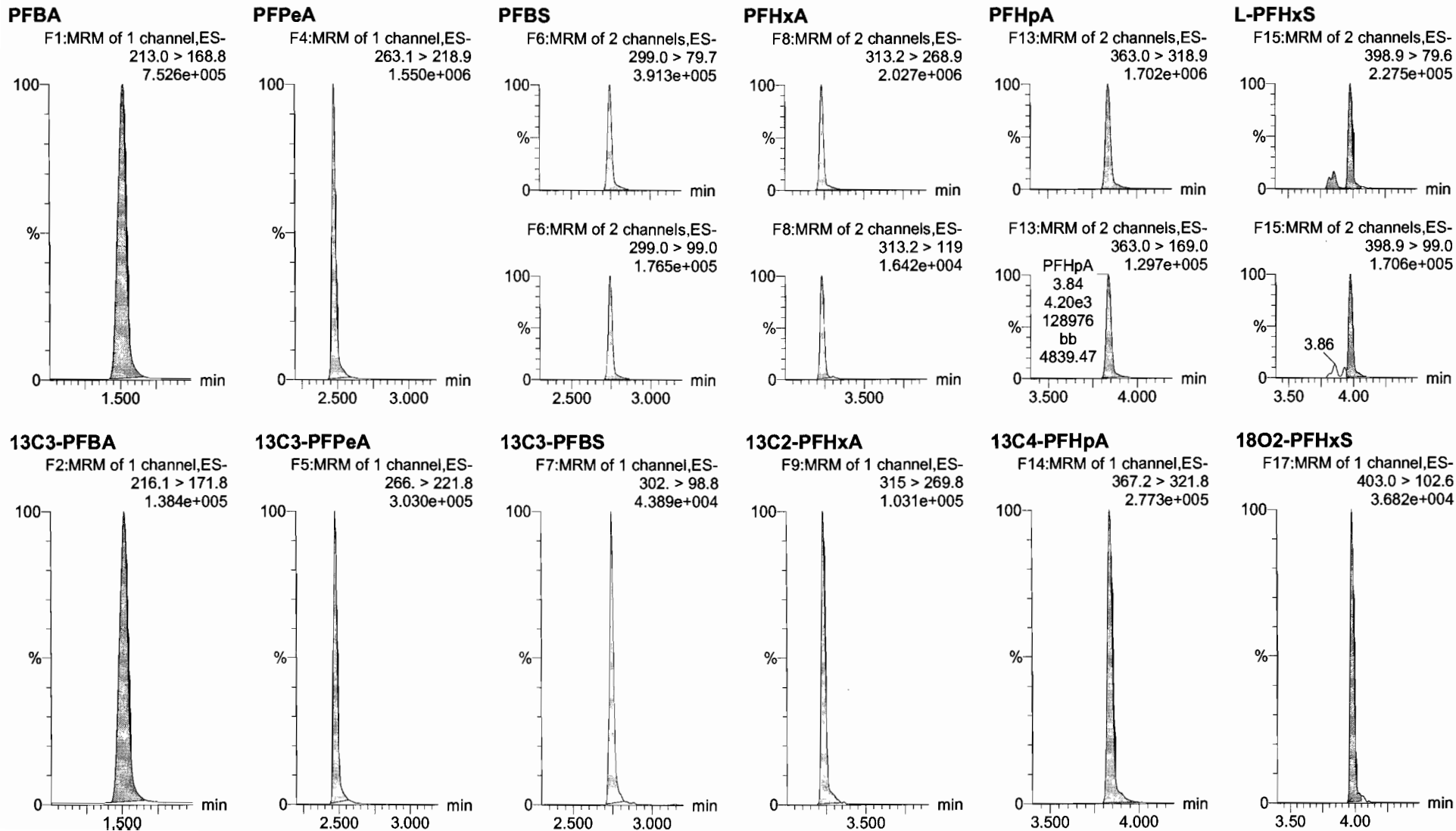


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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_8, Date: 27-Dec-2017, Time: 18:43:45, ID: ST171227M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

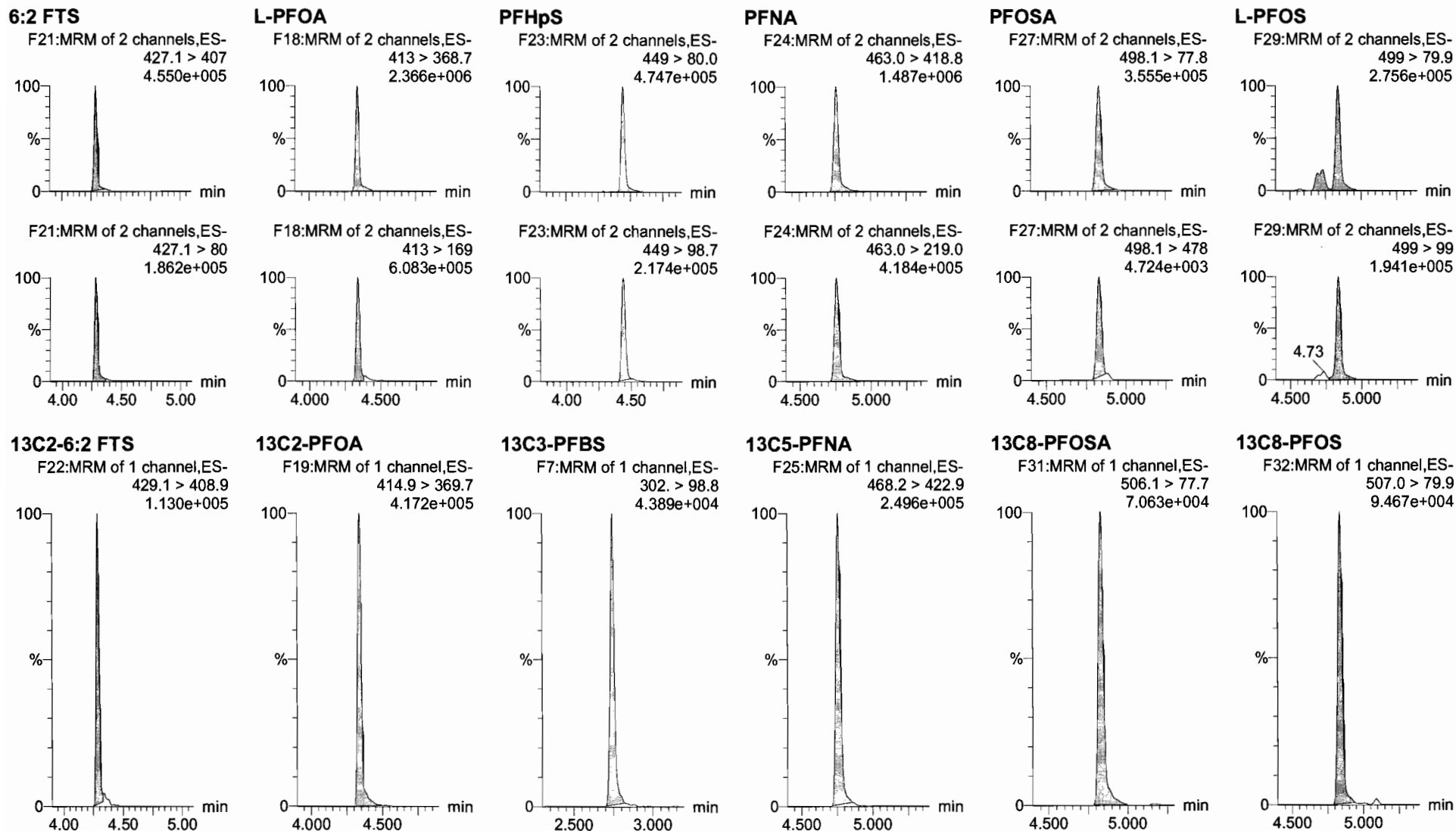


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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_8, Date: 27-Dec-2017, Time: 18:43:45, ID: ST171227M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612



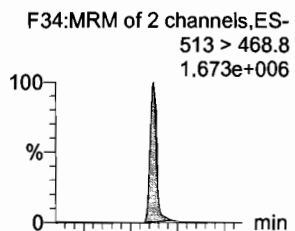
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Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

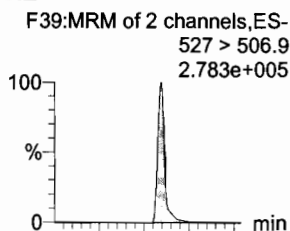
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_8, Date: 27-Dec-2017, Time: 18:43:45, ID: ST171227M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

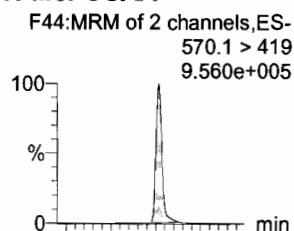
**PFDA**



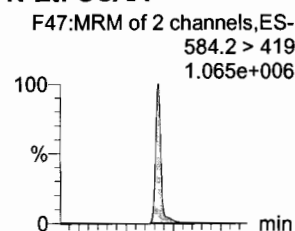
**8:2 FTS**



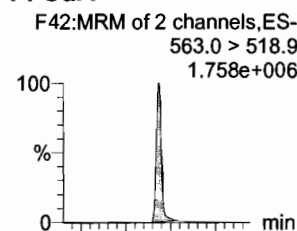
**N-MeFOSAA**



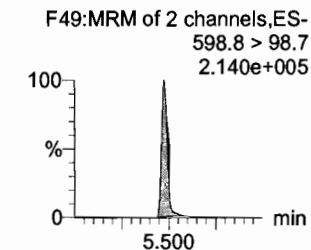
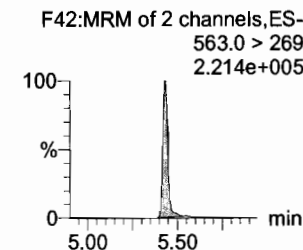
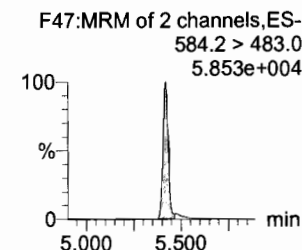
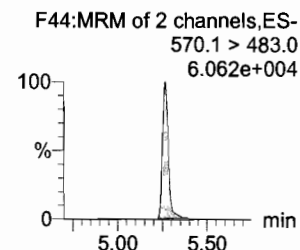
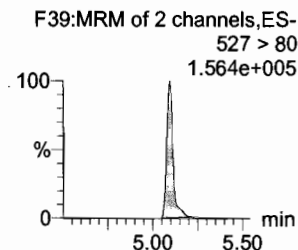
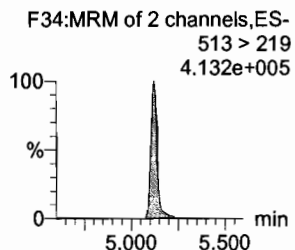
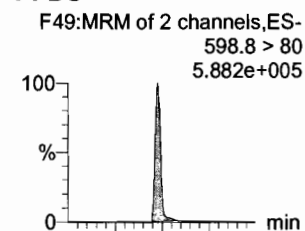
**N-EtFOSAA**



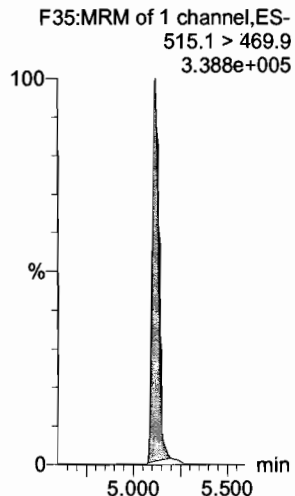
**PFUdA**



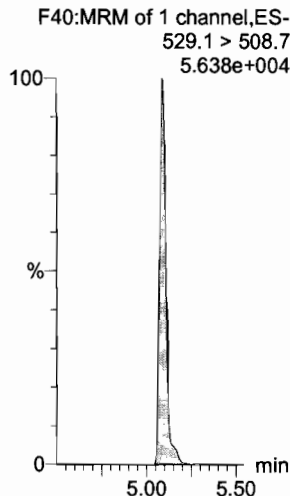
**PFDS**



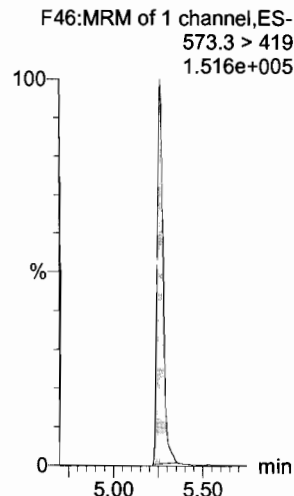
**13C2-PFDA**



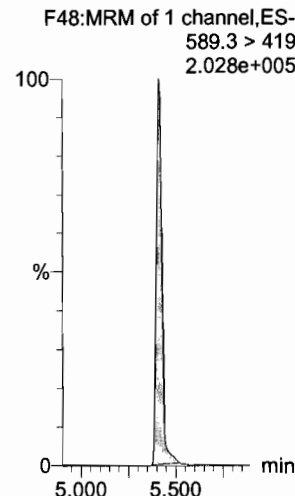
**13C2-8:2 FTS**



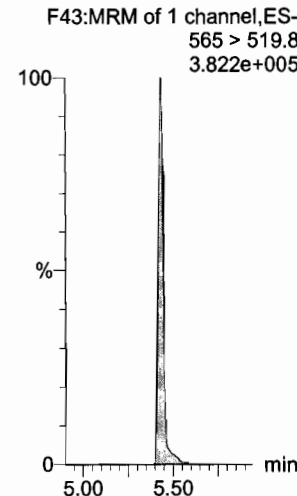
**d3-N-MeFOSAA**



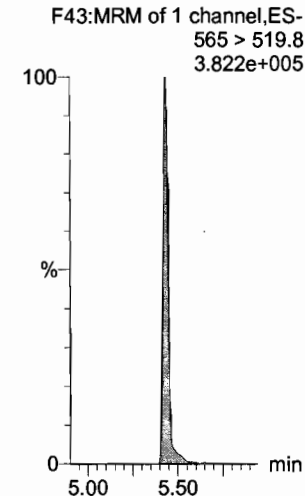
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUDa**

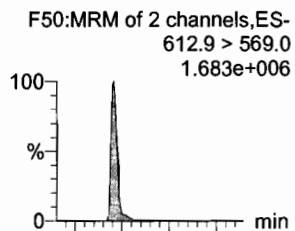


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

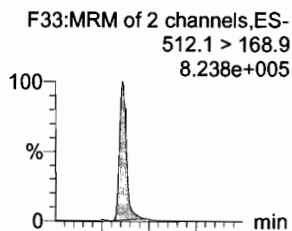
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_8, Date: 27-Dec-2017, Time: 18:43:45, ID: ST171227M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

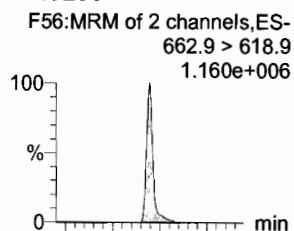
**PFDoA**



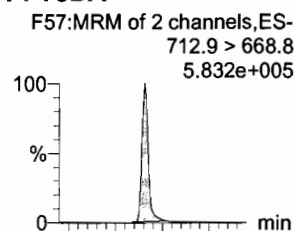
**N-MeFOSA**



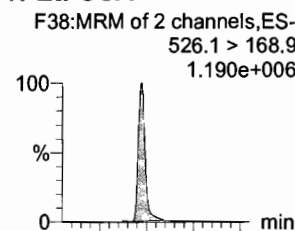
**PFTrDA**



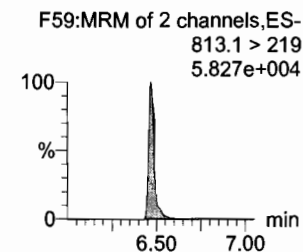
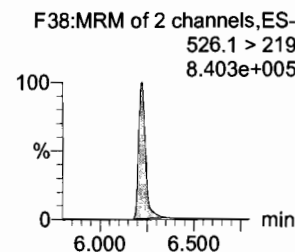
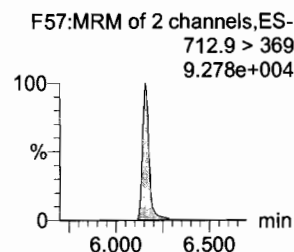
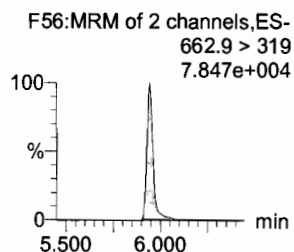
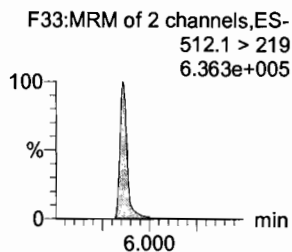
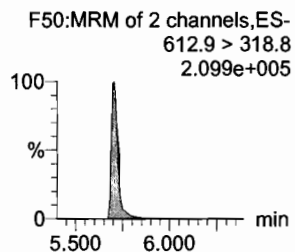
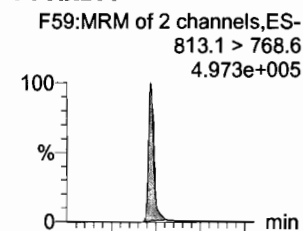
**PFTeDA**



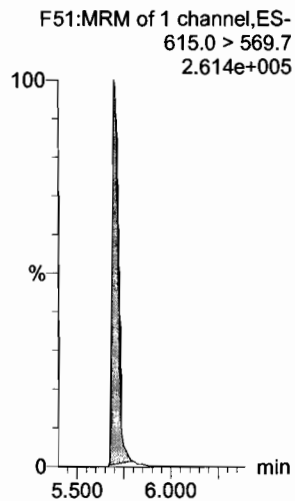
**N-EtFOSA**



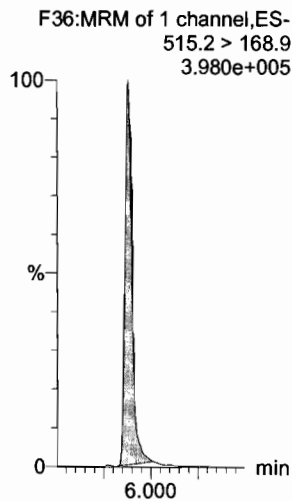
**PFHxDA**



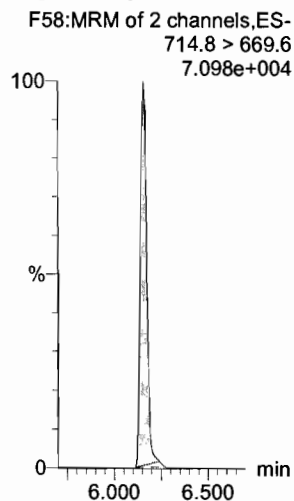
**13C2-PFDoA**



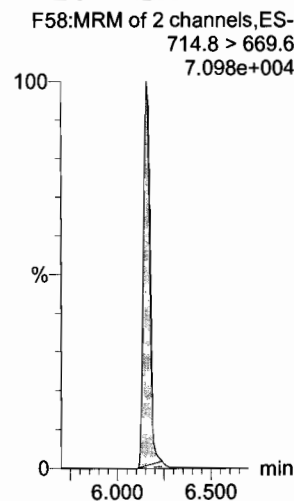
**d3-N-MeFOSA**



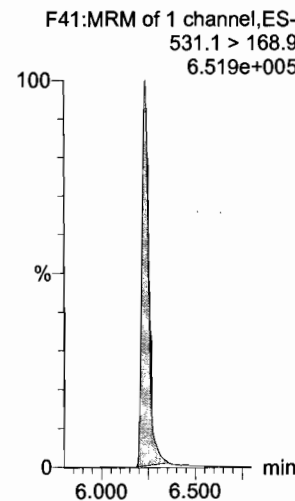
**13C2-PFTeDA**



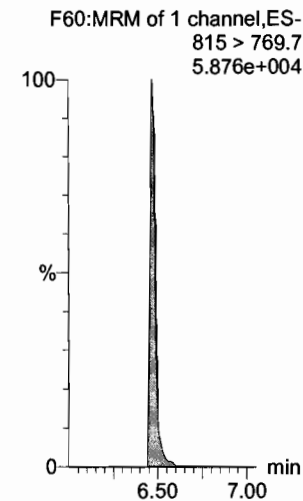
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

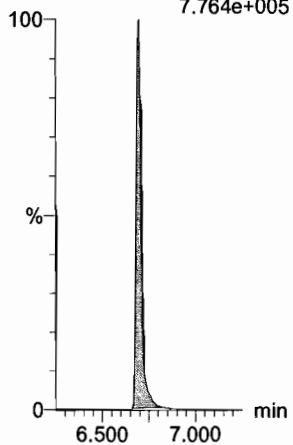
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_8, Date: 27-Dec-2017, Time: 18:43:45, ID: ST171227M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

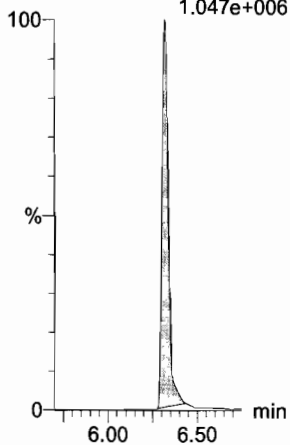
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
7.764e+005



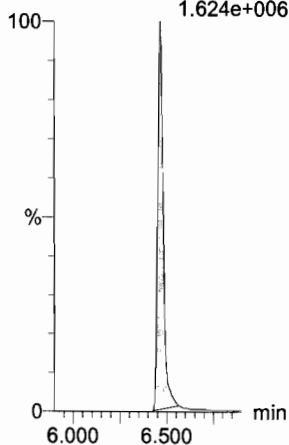
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
1.047e+006



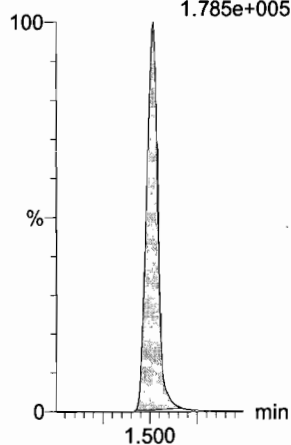
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
1.624e+006



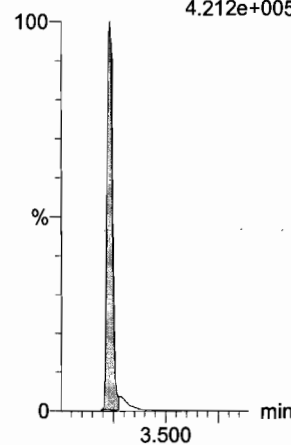
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.785e+005



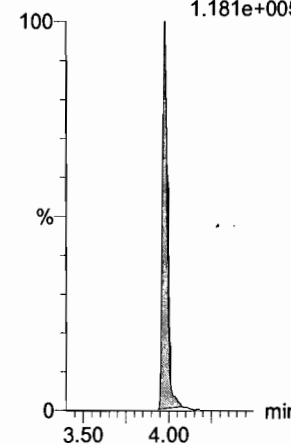
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.212e+005



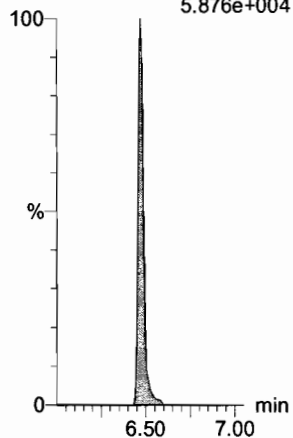
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
1.181e+005



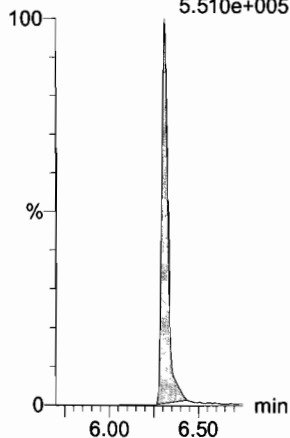
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
5.876e+004



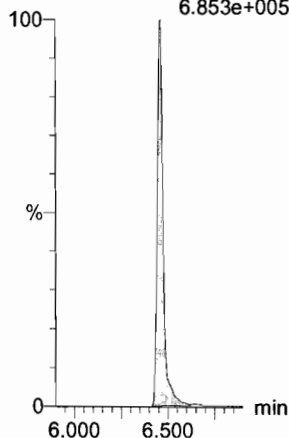
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
5.510e+005



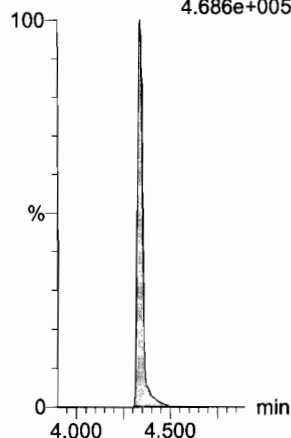
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
6.853e+005



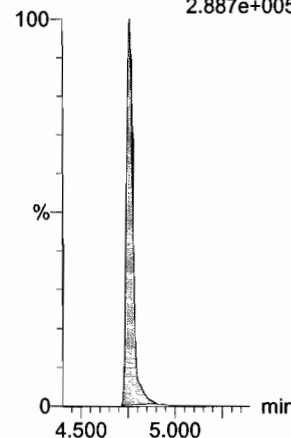
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
4.686e+005



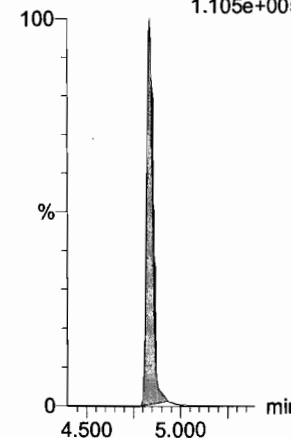
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.887e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
1.105e+005





Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

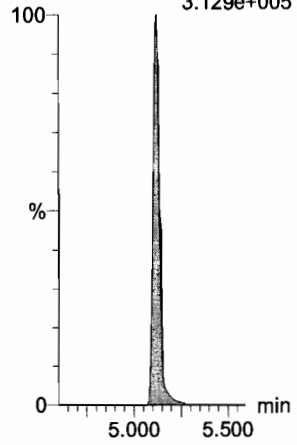
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Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

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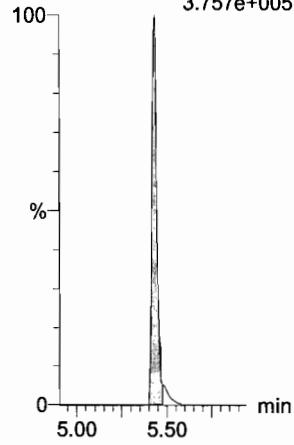
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.129e+005



13C7-PFUDa

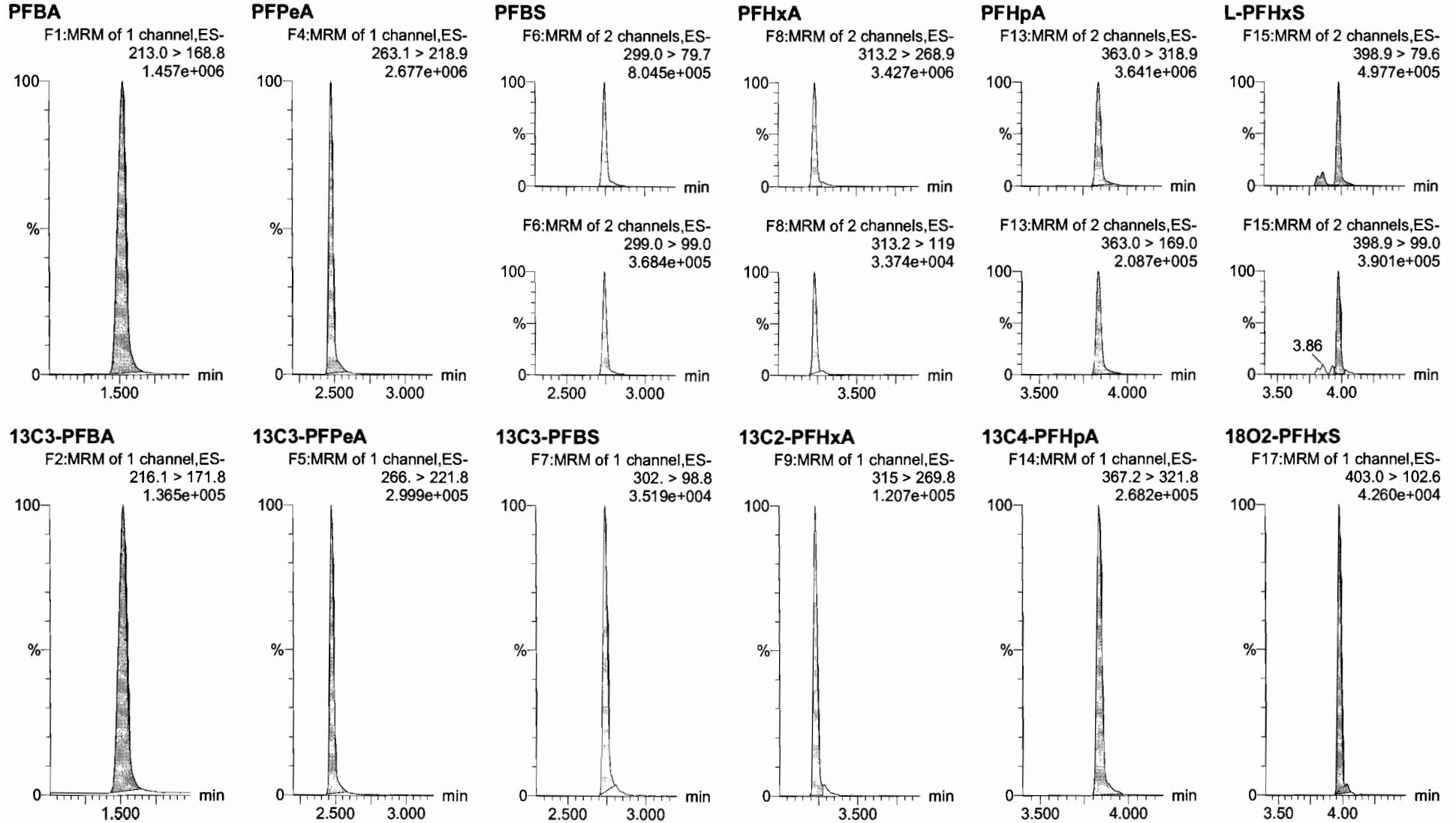
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.757e+005



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time  
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Name: 171227M2\_9, Date: 27-Dec-2017, Time: 18:54:55, ID: ST171227M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

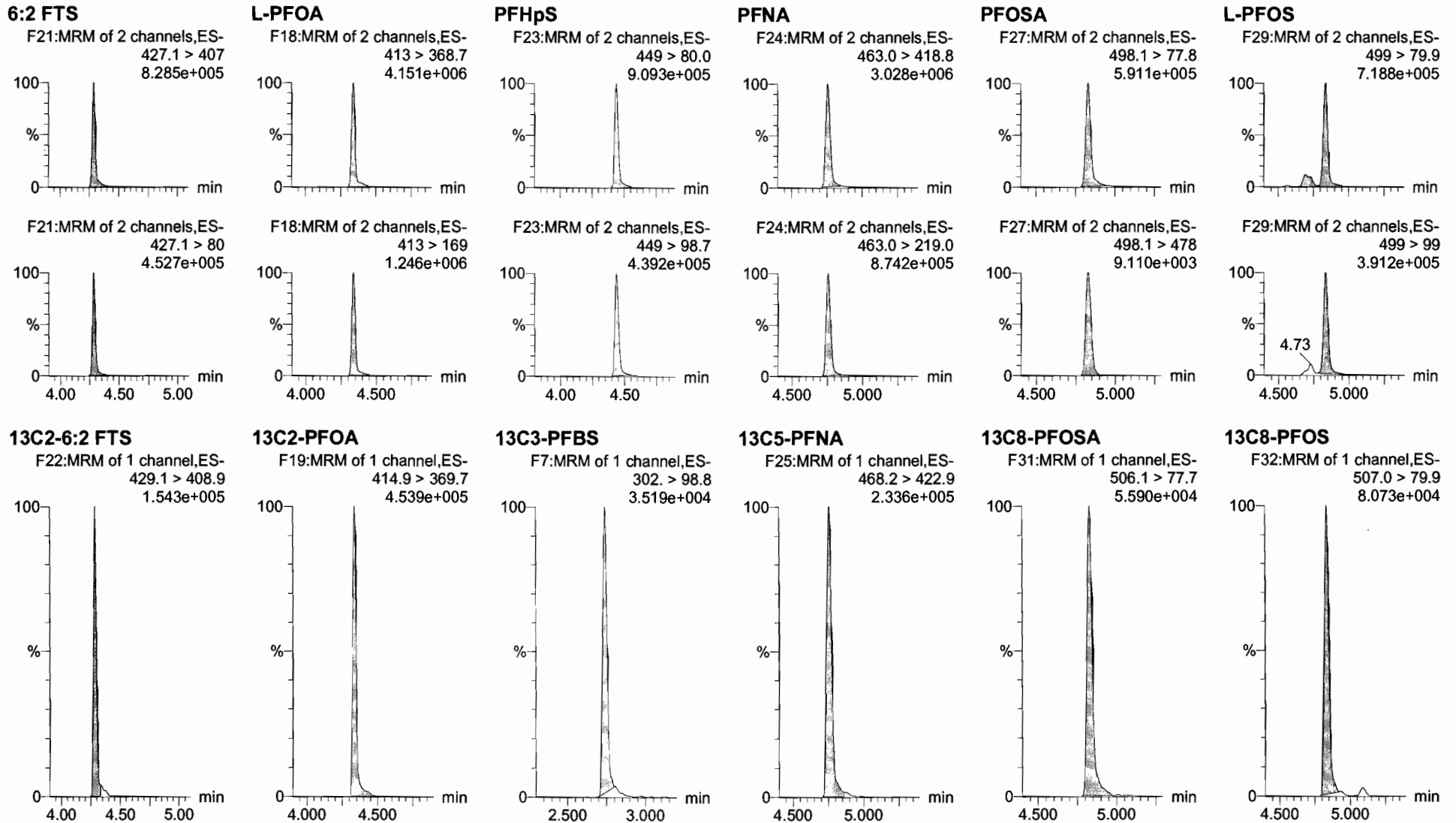


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Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

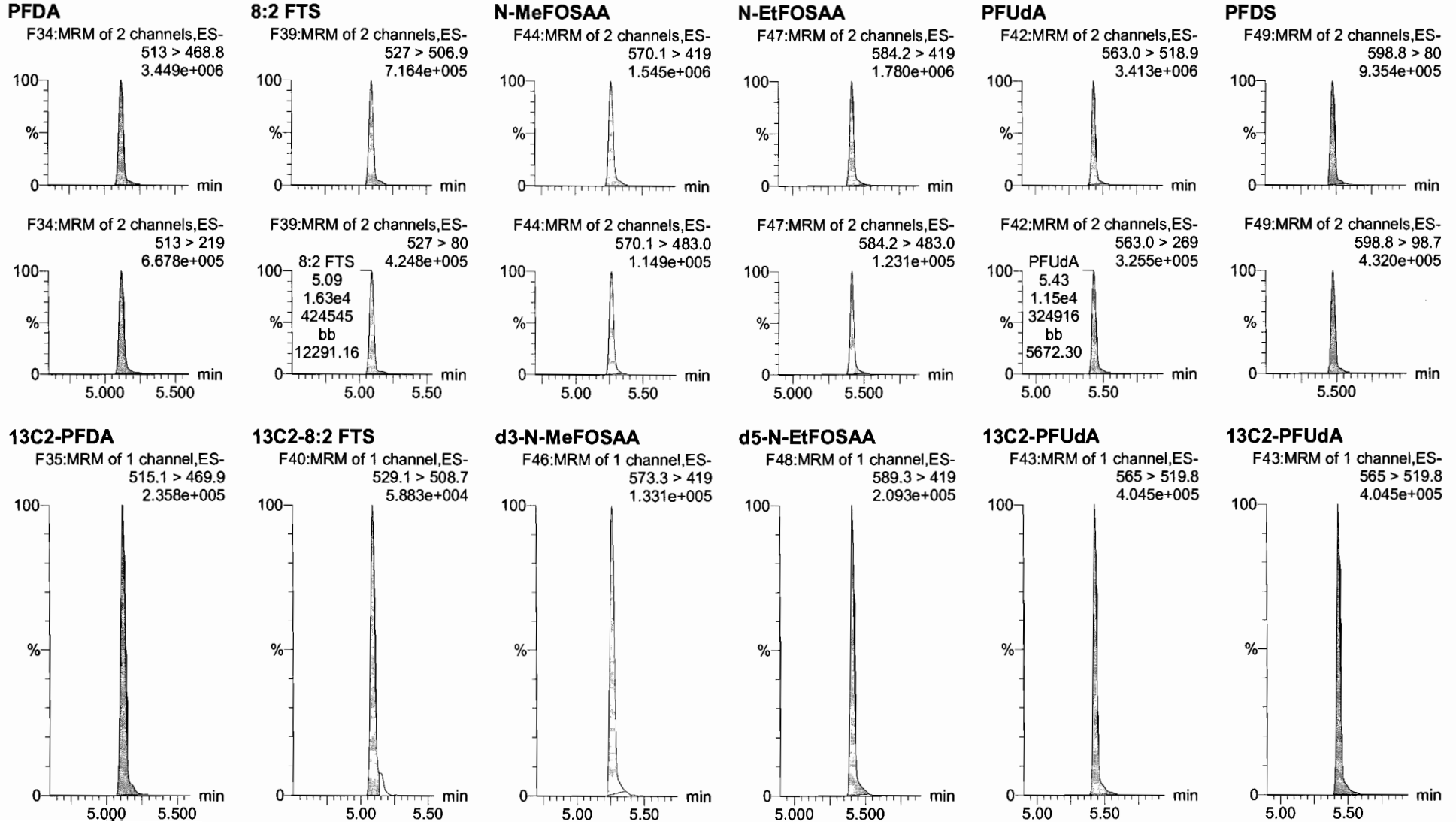
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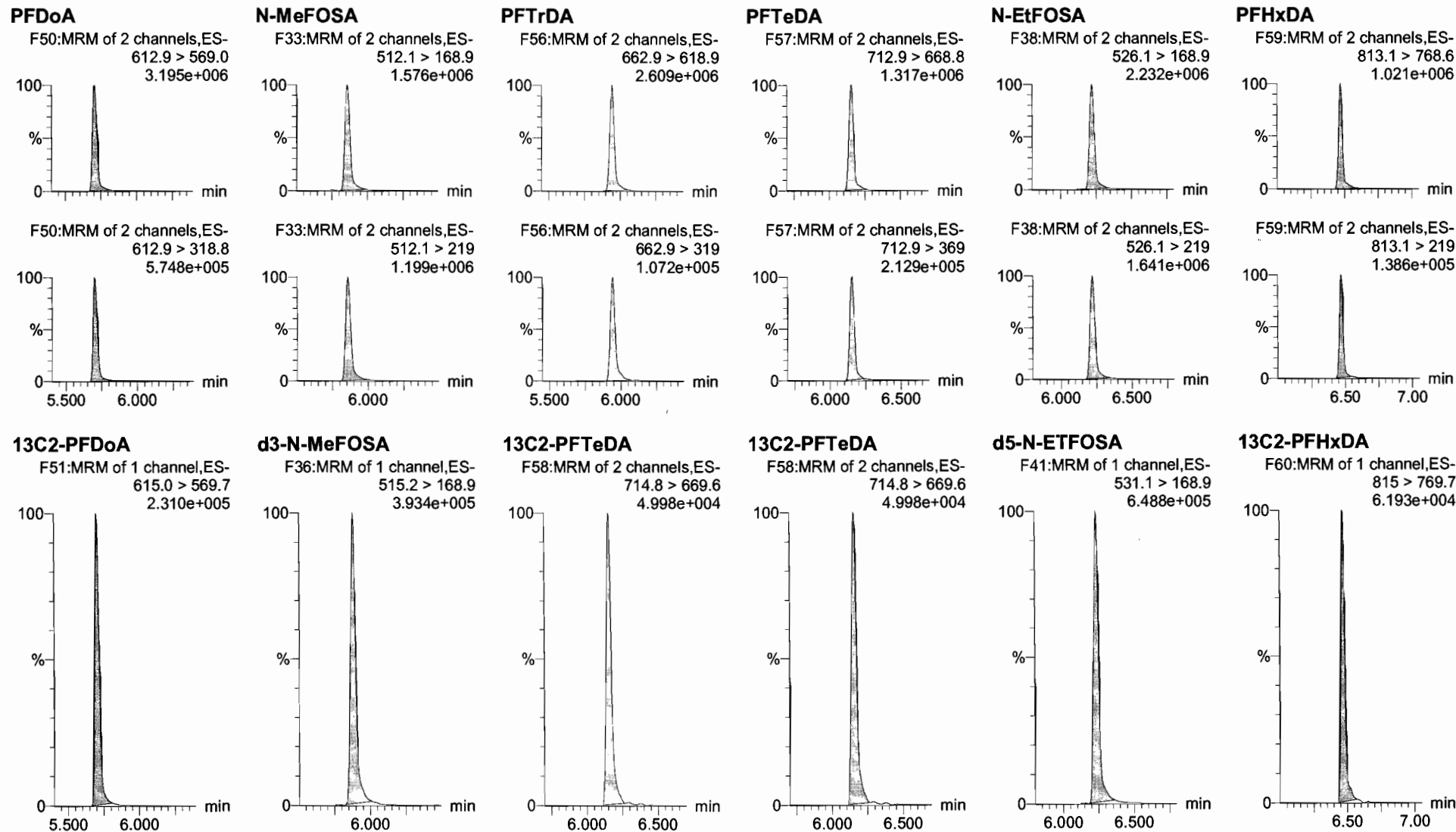


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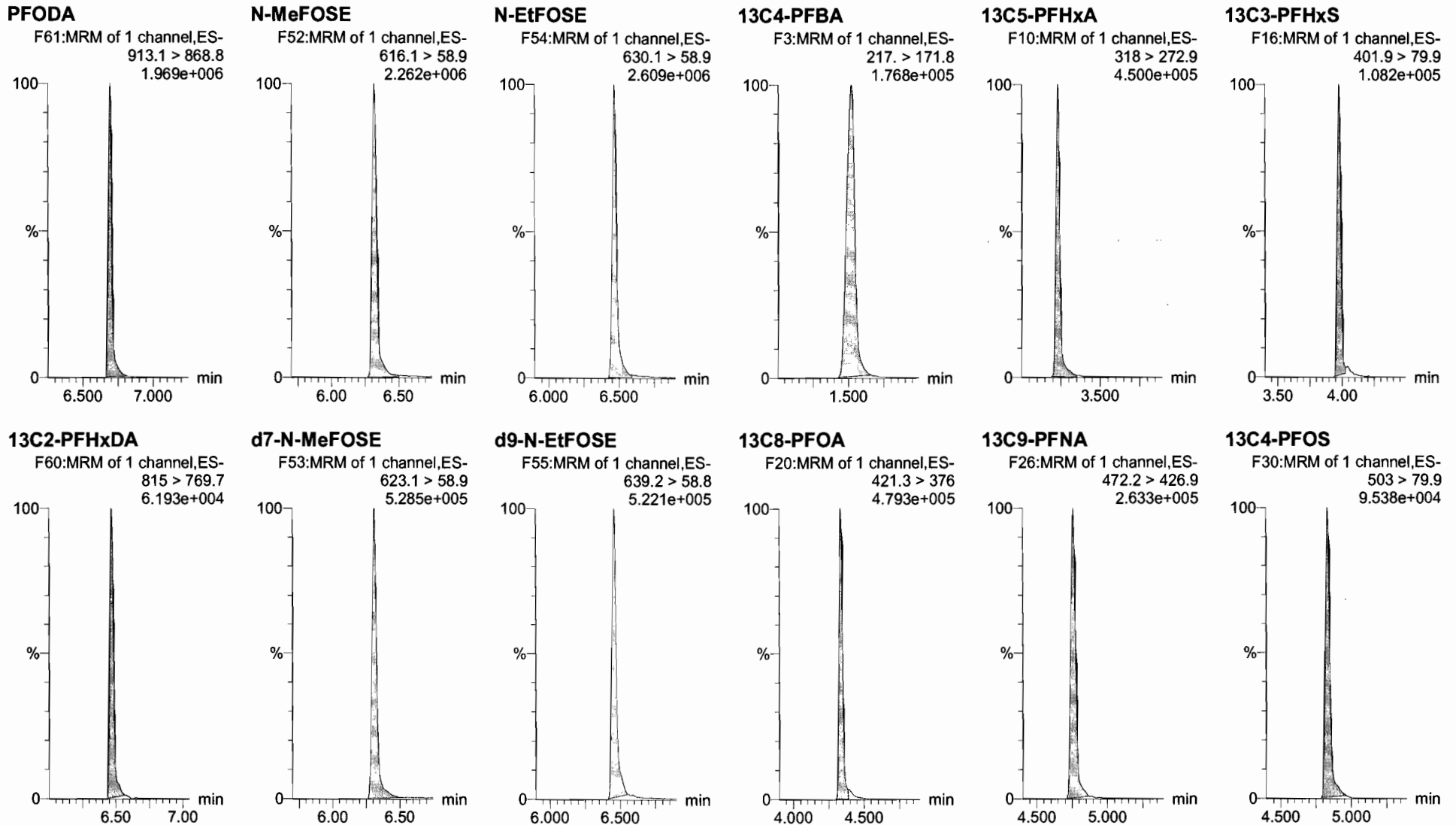


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Name: 171227M2\_9, Date: 27-Dec-2017, Time: 18:54:55, ID: ST171227M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613



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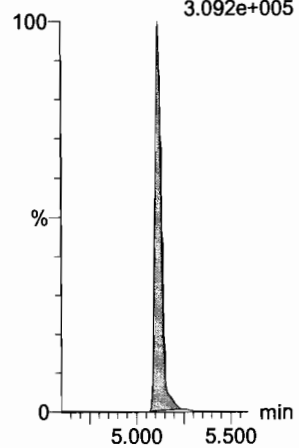
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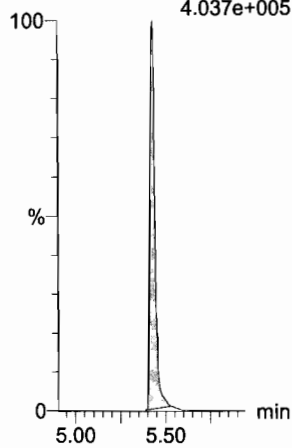
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.092e+005



**13C7-PFUDa**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
4.037e+005

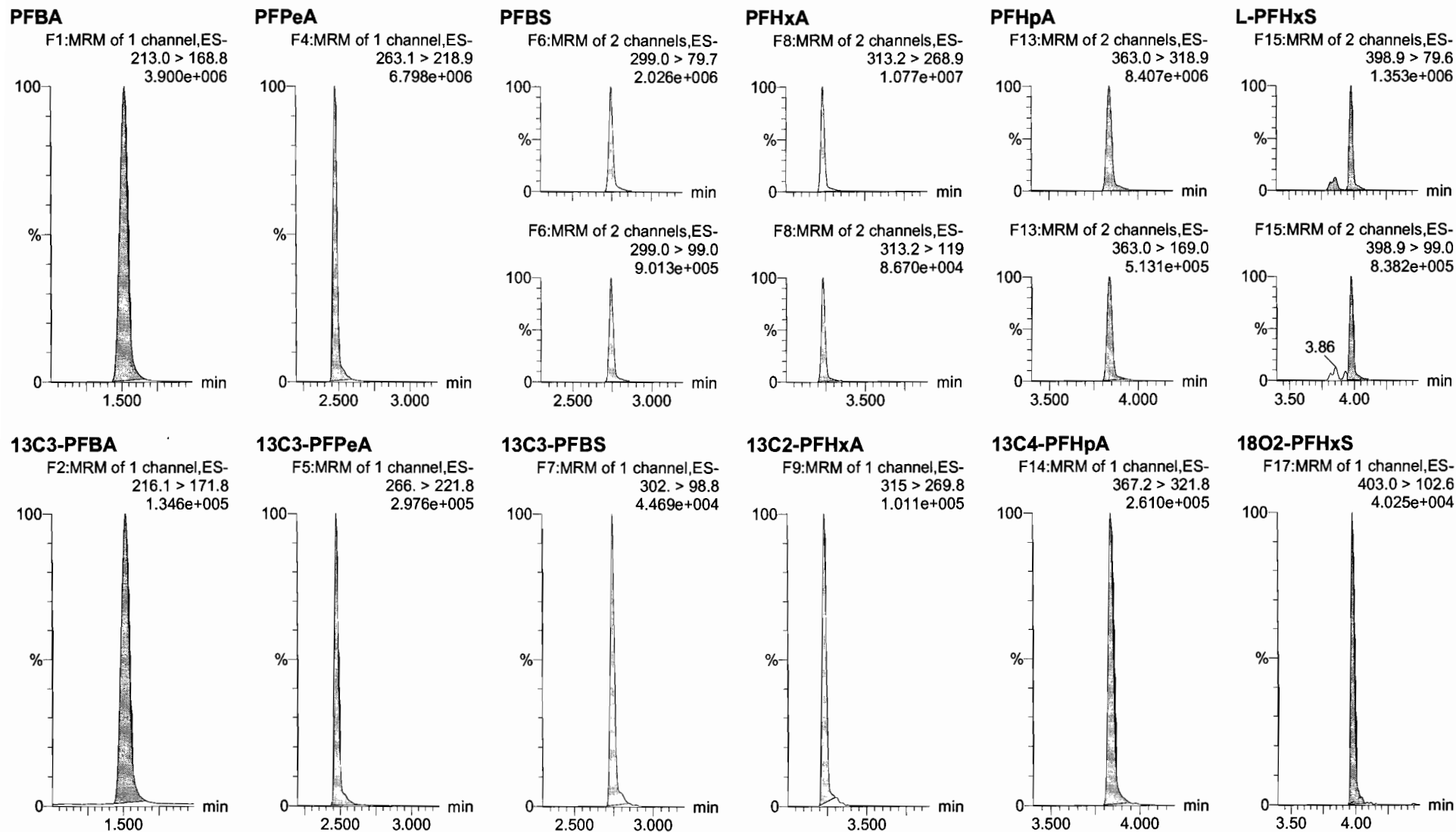


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Name: 171227M2\_10, Date: 27-Dec-2017, Time: 19:06:06, ID: ST171227M2-9 PFC CS6 17L2710, Description: PFC CS6 17L2710





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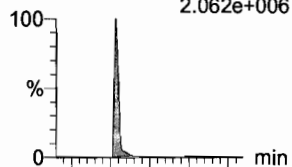
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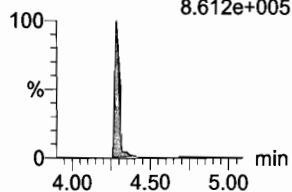
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**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
2.062e+006

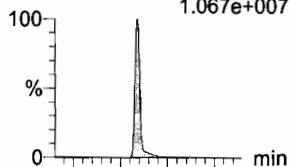


F21:MRM of 2 channels,ES-  
427.1 > 80  
8.612e+005

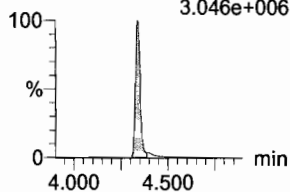


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
1.067e+007

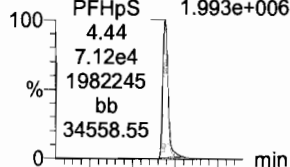


F18:MRM of 2 channels,ES-  
413 > 169  
3.046e+006

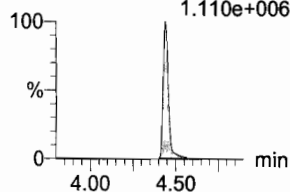


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.993e+006

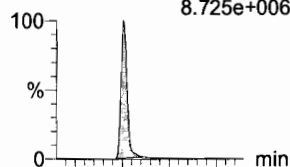


F23:MRM of 2 channels,ES-  
449 > 98.7  
1.110e+006

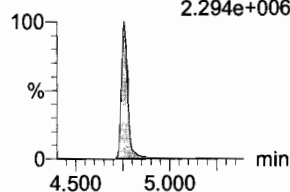


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
8.725e+006

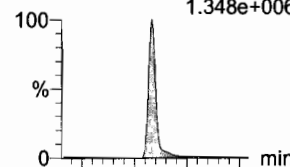


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
2.294e+006

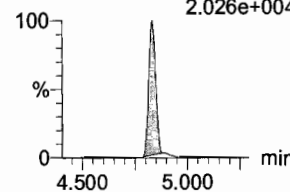


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.348e+006

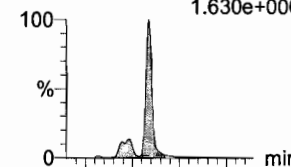


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.026e+004

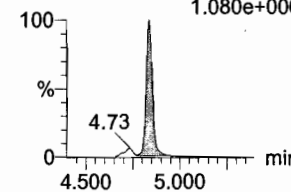


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
1.630e+006

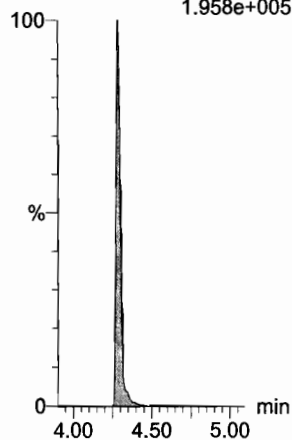


F29:MRM of 2 channels,ES-  
499 > 99  
1.080e+006



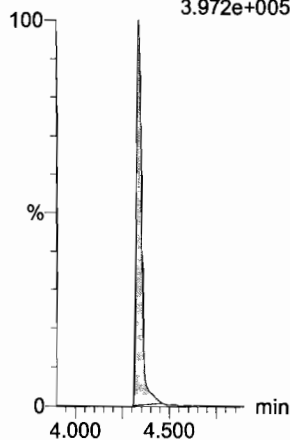
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.958e+005



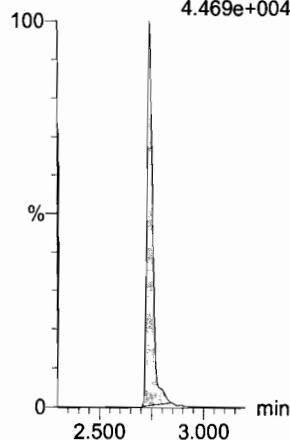
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.972e+005



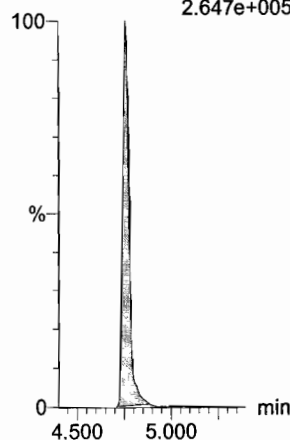
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
4.469e+004



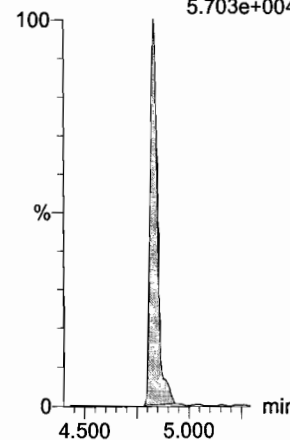
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.647e+005



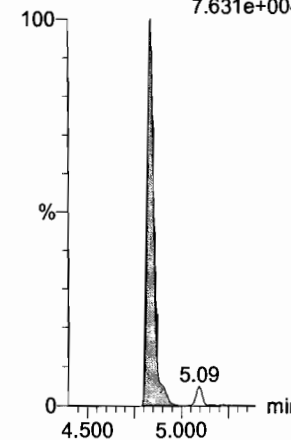
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
5.703e+004



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
7.631e+004



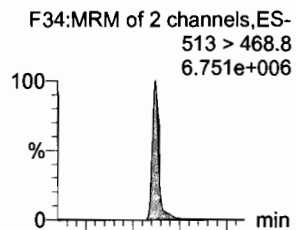
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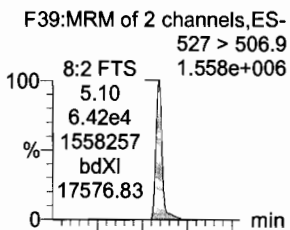
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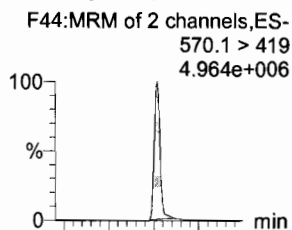
**PFDA**



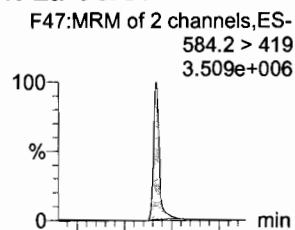
**8:2 FTS**



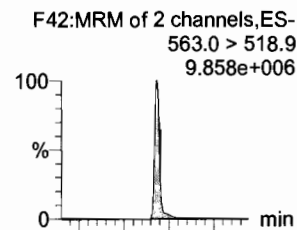
**N-MeFOSAA**



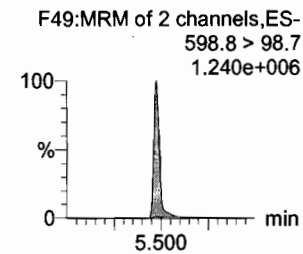
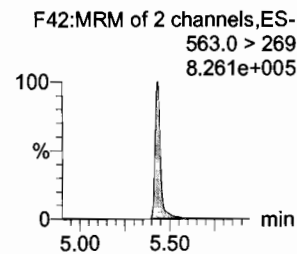
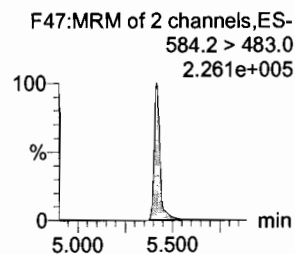
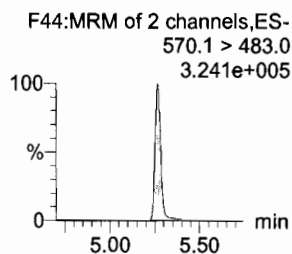
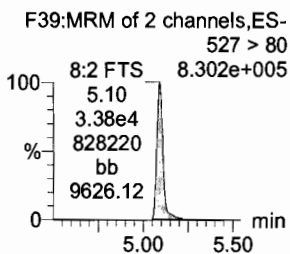
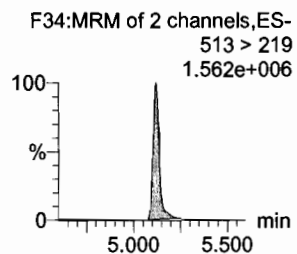
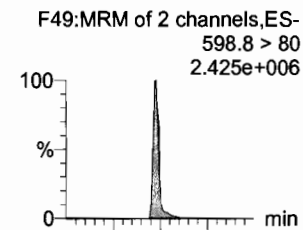
**N-EtFOSAA**



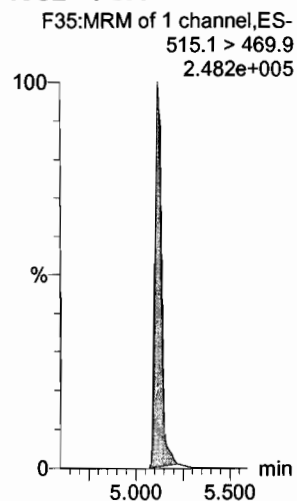
**PFUdA**



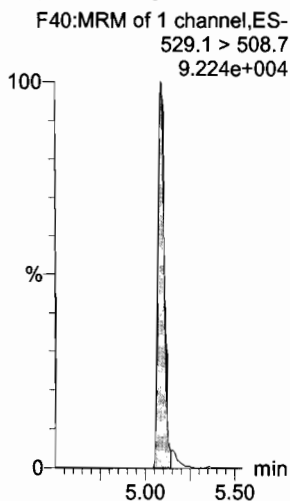
**PFDS**



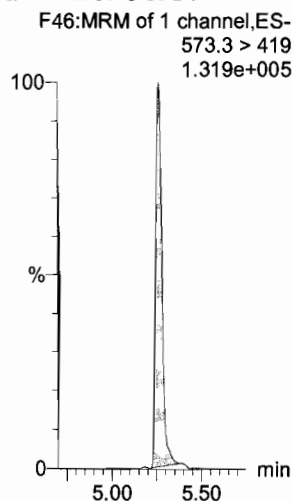
**13C2-PFDA**



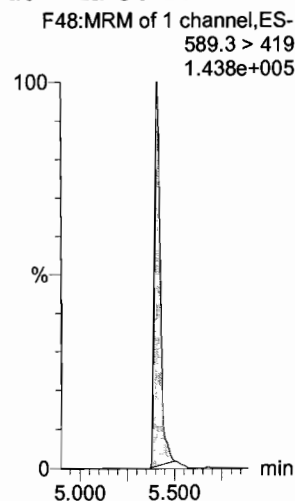
**13C2-8:2 FTS**



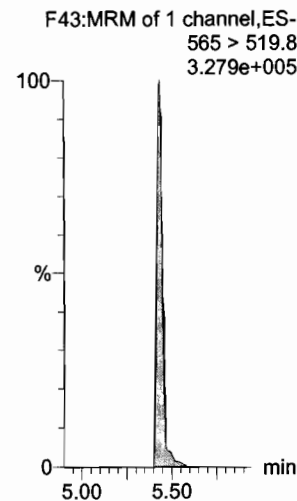
**d3-N-MeFOSAA**



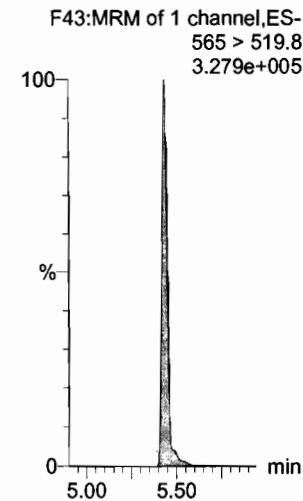
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



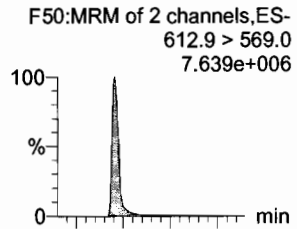
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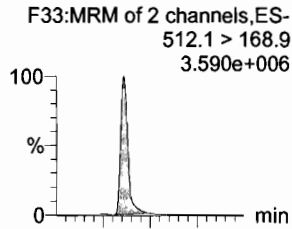
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Name: 171227M2\_10, Date: 27-Dec-2017, Time: 19:06:06, ID: ST171227M2-9 PFC CS6 17L2710, Description: PFC CS6 17L2710

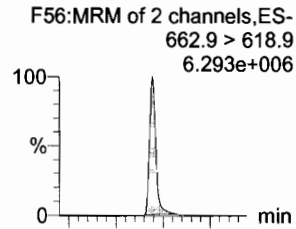
**PFDoA**



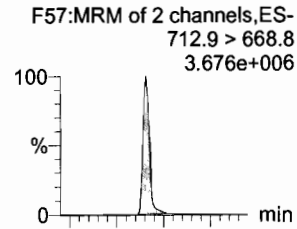
**N-MeFOSA**



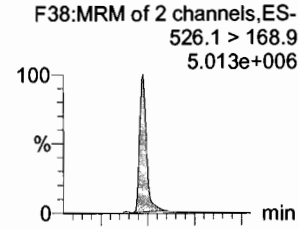
**PFTrDA**



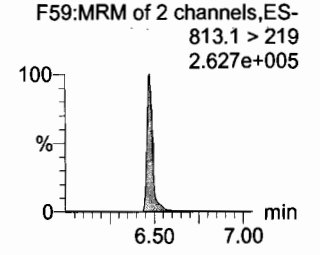
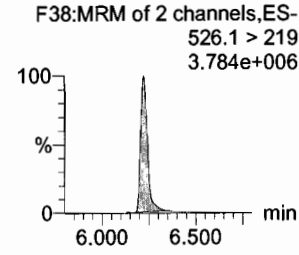
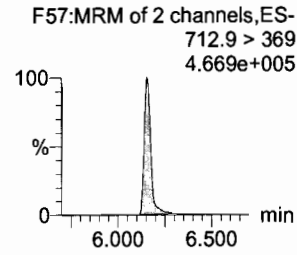
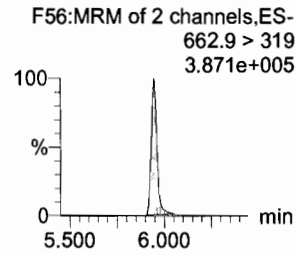
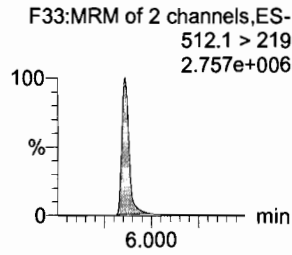
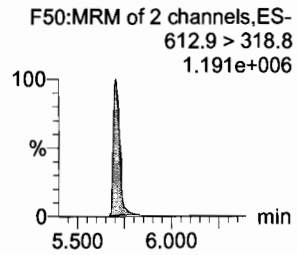
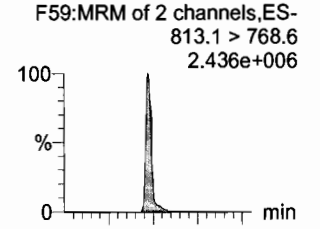
**PFTeDA**



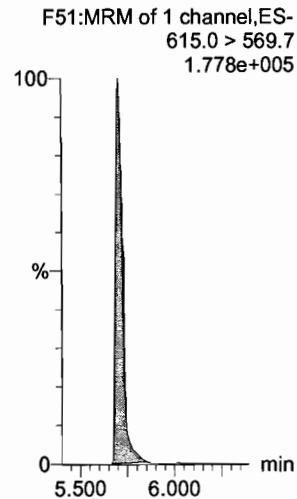
**N-EtFOSA**



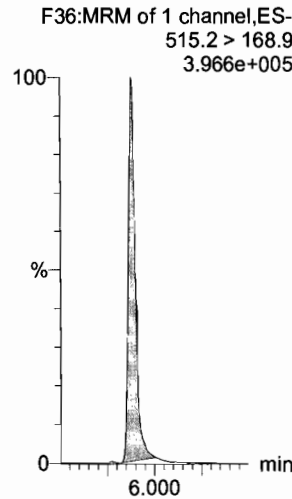
**PFHxDA**



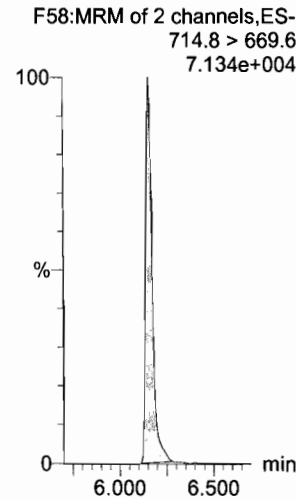
**13C2-PFDoA**



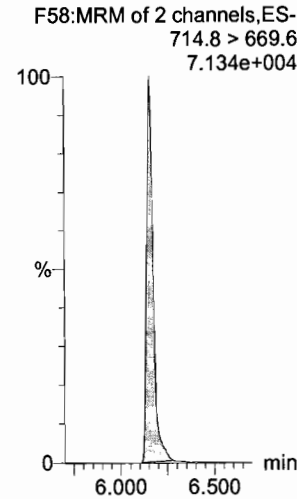
**d3-N-MeFOSA**



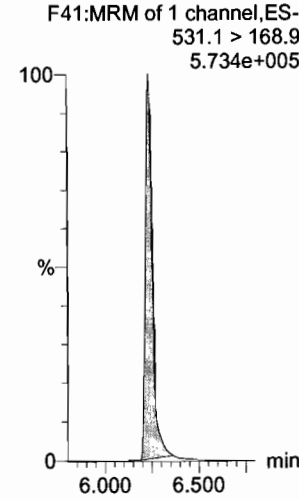
**13C2-PFTeDA**



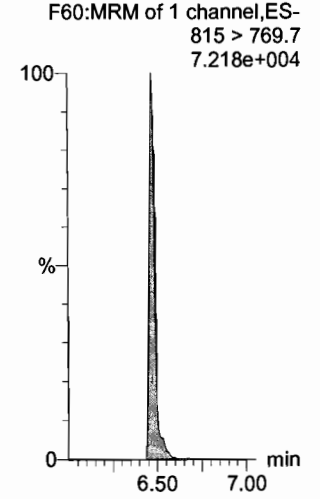
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**

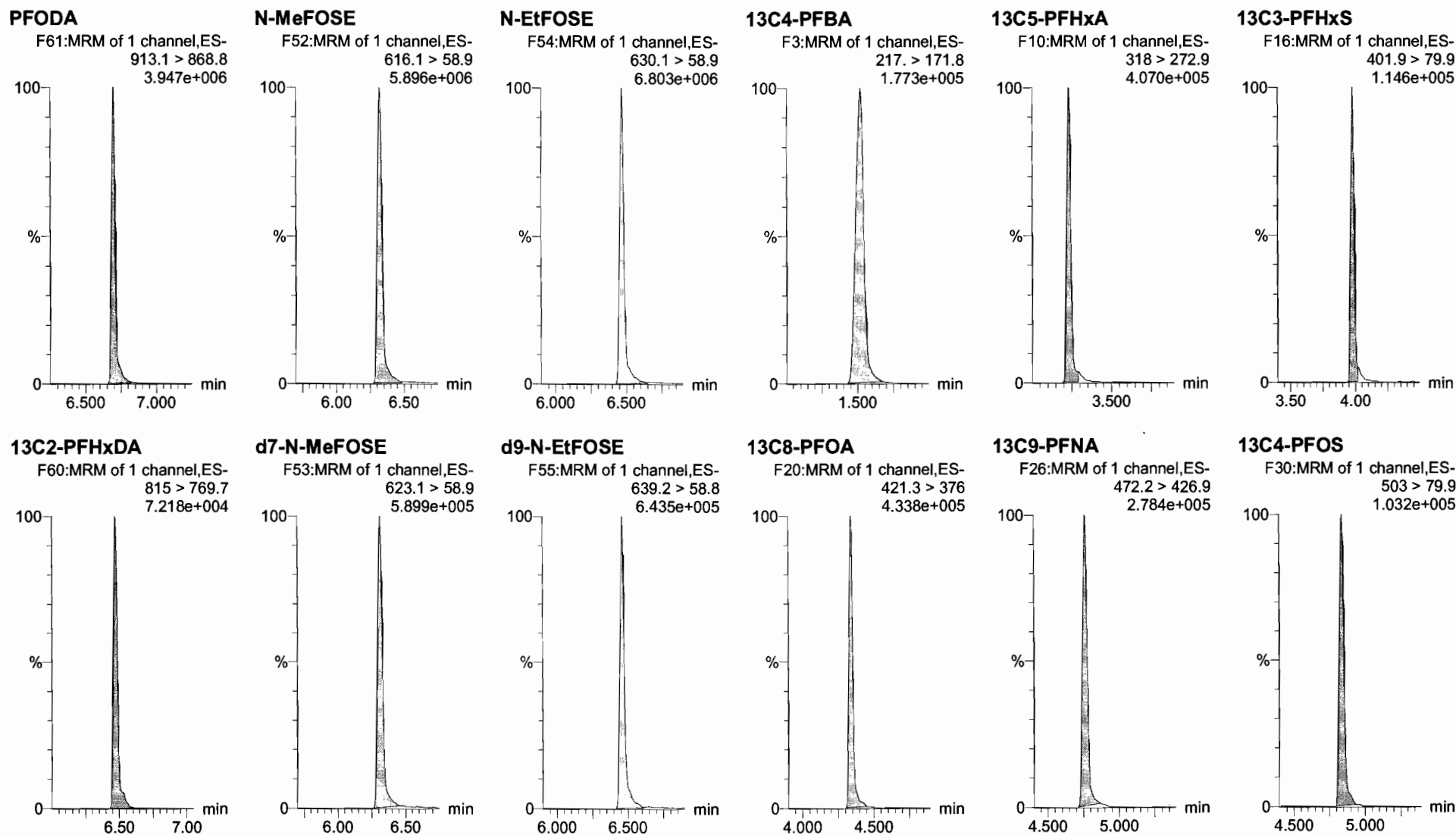


Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_10, Date: 27-Dec-2017, Time: 19:06:06, ID: ST171227M2-9 PFC CS6 17L2710, Description: PFC CS6 17L2710



Dataset: U:\Q4.PRO\results\171227M2\171227M2-CRV.qld

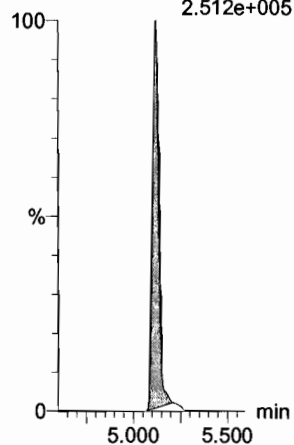
Last Altered: Thursday, December 28, 2017 10:26:33 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:11:42 Pacific Standard Time

Name: 171227M2\_10, Date: 27-Dec-2017, Time: 19:06:06, ID: ST171227M2-9 PFC CS6 17L2710, Description: PFC CS6 17L2710

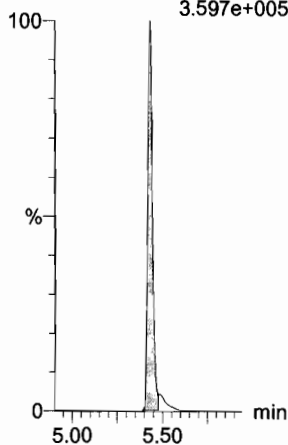
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.512e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.597e+005



Dataset: U:\Q4.PRO\results\171227M2\171227M2-13.qld

Last Altered: Thursday, December 28, 2017 11:56:02 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:57:15 Pacific Standard Time

(A) No second source available.

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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 11:43:33

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171227M2\_13, Date: 27-Dec-2017, Time: 19:39:38, ID: ICV171227M2-1 PFC ICV 17L2605, Description: PFC ICV 17L2605

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.33e3	9.01e3	1.0000		1.47	1.52	12.9	9.194	91.9
2	2 PFPeA	263.1 > 218.9	9.10e3	1.06e4	1.0000		2.44	2.47	10.7	9.121	91.2
3	3 PFBS	299.0 > 79.7	2.10e3	1.19e3	1.0000		2.70	2.74	22.1	9.312	93.1
4	4 PFHxA	313.2 > 268.9	1.10e4	3.18e3	1.0000		3.20	3.24	17.3	8.479	84.8
5	5 PFHpA	363.0 > 318.9	1.20e4	8.98e3	1.0000		3.80	3.84	16.7	10.209	102.1
6	6 L-PFHxS	398.9 > 79.6	1.68e3	1.33e3	1.0000		3.95	3.98	15.8	7.419	74.2
7	8 6:2 FTS	427.1 > 407	2.32e3	1.42e4	1.0000		4.26	4.29	2.04	8.866	88.7
8	9 L-PFOA	413 > 368.7	1.12e4	1.42e4	1.0000		4.32	4.34	9.82	7.681	76.8
9	11 PFHpS	449 > 80.0	2.70e3	1.42e4	1.0000		4.43	4.44	2.37	8.076	80.8
10	12 PFNA	463.0 > 418.8	1.12e4	9.67e3	1.0000		4.75	4.76	14.5	9.411	94.1
11	13 PFOSA	498.1 > 77.8	2.14e3	2.75e3	1.0000		4.81	4.83	9.72	7.788	77.9
12	14 L-PFOS	499 > 79.9	2.16e3	2.90e3	1.0000		4.83	4.84	9.31	7.524	75.2
13	16 PFDA	513 > 468.8	1.24e4	1.04e4	1.0000		5.11	5.12	15.0	9.985	99.8
14	17 8:2 FTS	527 > 506.9	2.66e3	1.04e4	1.0000		5.09	5.10	3.21	9.477	94.8
15	18 N-MeFOSAA	570.1 > 419	7.25e3	5.23e3	1.0000		5.26	5.27	17.3	10.286	102.9
16	19 N-EtFOSAA	584.2 > 419	5.51e3	6.22e3	1.0000		5.42	5.42	11.1	9.207	92.1
17	20 PFUDa	563.0 > 518.9	1.07e4	1.26e4	1.0000		5.43	5.44	10.6	10.287	102.9
18	21 PFDS	598.8 > 80	3.07e3	1.26e4	1.0000		5.50	5.48	3.05	9.635	96.4
19	22 PFDoA	612.9 > 569.0	1.26e4	8.51e3	1.0000		5.70	5.71	18.5	10.514	105.1
20	23 N-MeFOSA	512.1 > 168.9		1.69e4	1.0000		5.77				(A)
21	24 PFTrDA	662.9 > 618.9	1.06e4	8.51e3	1.0000		5.95	5.95	15.5	9.485	94.8
22	25 PFTeDA	712.9 > 668.8	7.53e3	3.02e3	1.0000		6.16	6.16	31.1	11.619	116.2
23	26 N-EtFOSA	526.1 > 168.9		2.69e4	1.0000		6.15				(A)
24	27 PFHxDA	813.1 > 768.6		2.60e3	1.0000		6.48				(A)
25	28 PFODA	913.1 > 868.8		2.60e3	1.0000		6.70				(A)
26	29 N-MeFOSE	616.1 > 58.9		2.20e4	1.0000		6.30				(A)
27	30 N-EtFOSE	630.1 > 58.9		2.63e4	1.0000		6.42				(A)
28	31 13C4-PFBA	216.1 > 171.8	9.01e3	1.19e4	1.0000	1.000	1.47	1.52	9.43	9.432	75.5
29	32 13C3-PFPeA	266. > 221.8	1.06e4	1.40e4	1.0000	0.747	2.44	2.47	9.49	12.699	101.6
30	33 13C3-PFBS	302. > 98.8	1.19e3	1.40e4	1.0000	0.101	2.70	2.74	1.07	10.516	84.1
31	34 13C2-PFHxA	315 > 269.8	3.18e3	1.40e4	1.0000	0.601	3.20	3.23	2.84	4.735	94.7

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Dataset: U:\Q4.PRO\results\171227M2\171227M2-13.qld

Last Altered: Thursday, December 28, 2017 11:56:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:57:15 Pacific Standard Time

Name: 171227M2\_13, Date: 27-Dec-2017, Time: 19:39:38, ID: ICV171227M2-1 PFC ICV 17L2605, Description: PFC ICV 17L2605

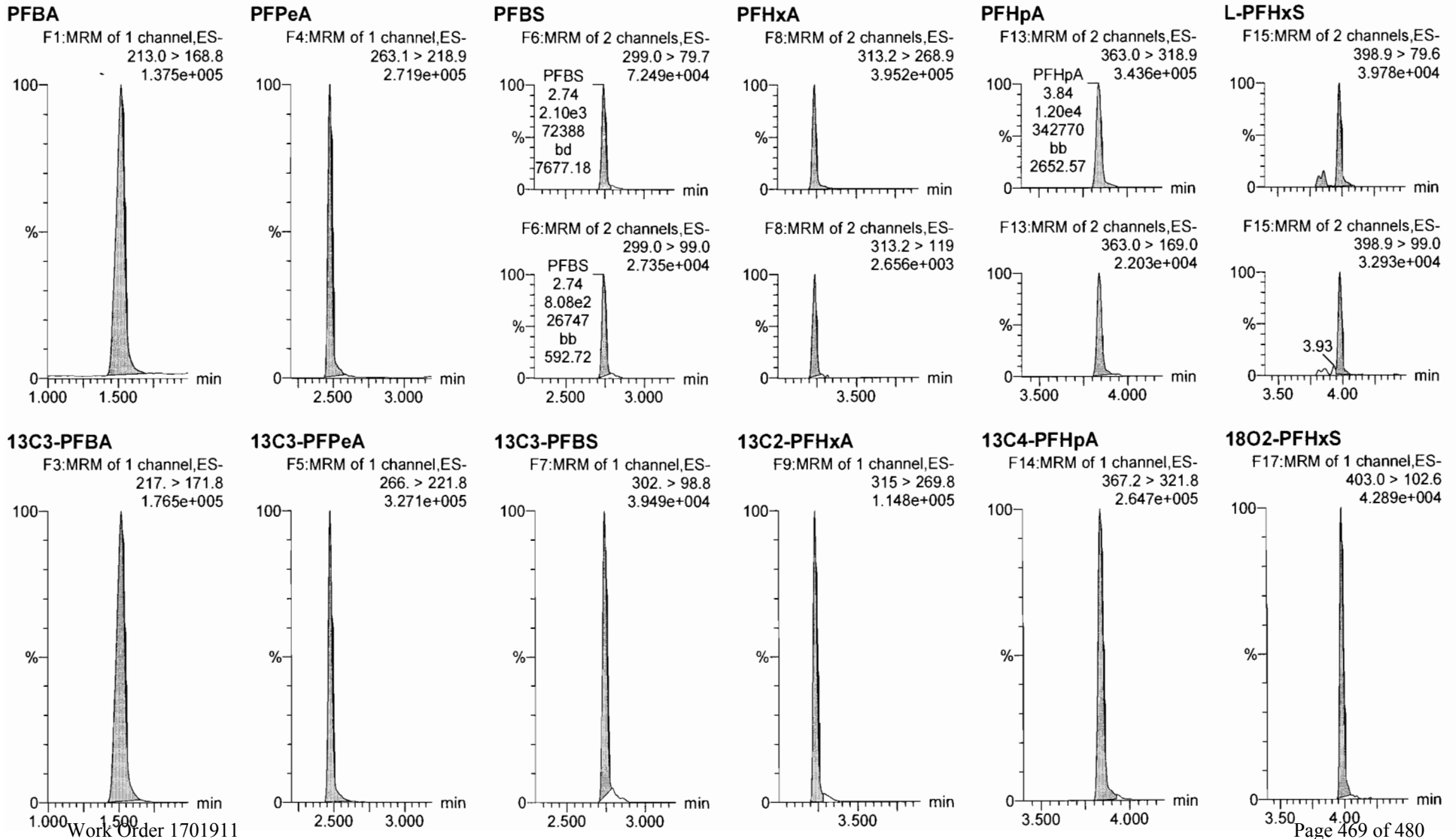
	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	8.98e3	1.40e4	1.0000	0.676	3.80	3.84	8.05	11.896	95.2
33	36 18O2-PFHxS	403.0 > 102.6	1.33e3	4.14e3	1.0000	0.347	3.95	3.98	4.03	11.640	93.1
34	37 13C2-6:2 FTS	429.1 > 408.9	3.29e3	1.30e4	1.0000	0.210	4.26	4.29	3.18	15.140	121.1
35	38 13C2-PFOA	414.9 > 369.7	1.42e4	1.30e4	1.0000	0.990	4.32	4.34	13.7	13.869	111.0
36	39 13C5-PFNA	468.2 > 422.9	9.67e3	1.20e4	1.0000	0.845	4.75	4.76	10.1	11.901	95.2
37	40 13C8-PFOSA	506.1 > 77.7	2.75e3	1.64e4	1.0000	0.199	4.81	4.83	2.10	10.528	84.2
38	41 13C8-PFOS	507.0 > 79.9	2.90e3	3.86e3	1.0000	0.865	4.83	4.84	9.39	10.850	86.8
39	42 13C2-PFDA	515.1 > 469.9	1.04e4	1.17e4	1.0000	0.886	5.11	5.12	11.1	12.512	100.1
40	43 13C2-8:2 FTS	529.1 > 508.7	1.40e3	1.40e4	1.0000	0.136	5.09	5.10	1.26	9.258	74.1
41	44 d3-N-MeFOSAA	573.3 > 419	5.23e3	1.64e4	1.0000	0.409	5.26	5.27	3.99	9.769	78.2
42	45 d5-N-EtFOSAA	589.3 > 419	6.22e3	1.64e4	1.0000	0.474	5.42	5.41	4.75	10.023	80.2
43	46 13C2-PFUdA	565 > 519.8	1.26e4	1.64e4	1.0000	0.928	5.43	5.44	9.60	10.336	82.7
44	47 13C2-PFDoA	615.0 > 569.7	8.51e3	1.64e4	1.0000	0.636	5.70	5.71	6.50	10.212	81.7
45	48 d3-N-MeFOSA	515.2 > 168.9	1.69e4	1.64e4	1.0000	0.112	5.80	5.89	12.9	115.661	77.1
46	49 13C2-PFTeDA	714.8 > 669.6	3.02e3	1.64e4	1.0000	0.163	6.16	6.16	2.31	14.176	113.4
47	50 d5-N-ETFOSA	531.1 > 168.9	2.69e4	1.64e4	1.0000	0.170	6.16	6.24	20.5	120.914	80.6
48	51 13C2-PFHxDA	815 > 769.7	2.60e3	1.64e4	1.0000	0.394	6.48	6.47	1.98	5.037	100.7
49	52 d7-N-MeFOSE	623.1 > 58.9	2.20e4	1.64e4	1.0000	0.148	6.30	6.31	16.8	112.925	75.3
50	53 d9-N-EtFOSE	639.2 > 58.8	2.63e4	1.64e4	1.0000	0.154	6.42	6.46	20.0	130.264	86.8
51	54 13C3-PFBA	217. > 171.8	1.19e4	1.19e4	1.0000		1.47	1.52	12.5		
52	55 13C5-PFHxA	318 > 272.9	1.40e4	1.40e4	1.0000	1.000	3.20	3.23	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.14e3	4.14e3	1.0000	1.000	3.95	3.98	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.30e4	1.30e4	1.0000	1.000	4.32	4.34	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.20e4	1.20e4	1.0000	1.000	4.75	4.76	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.86e3	3.86e3	1.0000	1.000	4.83	4.84	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.17e4	1.17e4	1.0000	1.000	5.11	5.12	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.64e4	1.64e4	1.0000	1.000	5.43	5.43	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\171227M2\171227M2-13.qld

Last Altered: Thursday, December 28, 2017 11:56:02 Pacific Standard Time  
Printed: Thursday, December 28, 2017 11:57:15 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122717.mdb 28 Dec 2017 11:43:33  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171227M2\_13, Date: 27-Dec-2017, Time: 19:39:38, ID: ICV171227M2-1 PFC ICV 17L2605, Description: PFC ICV 17L2605



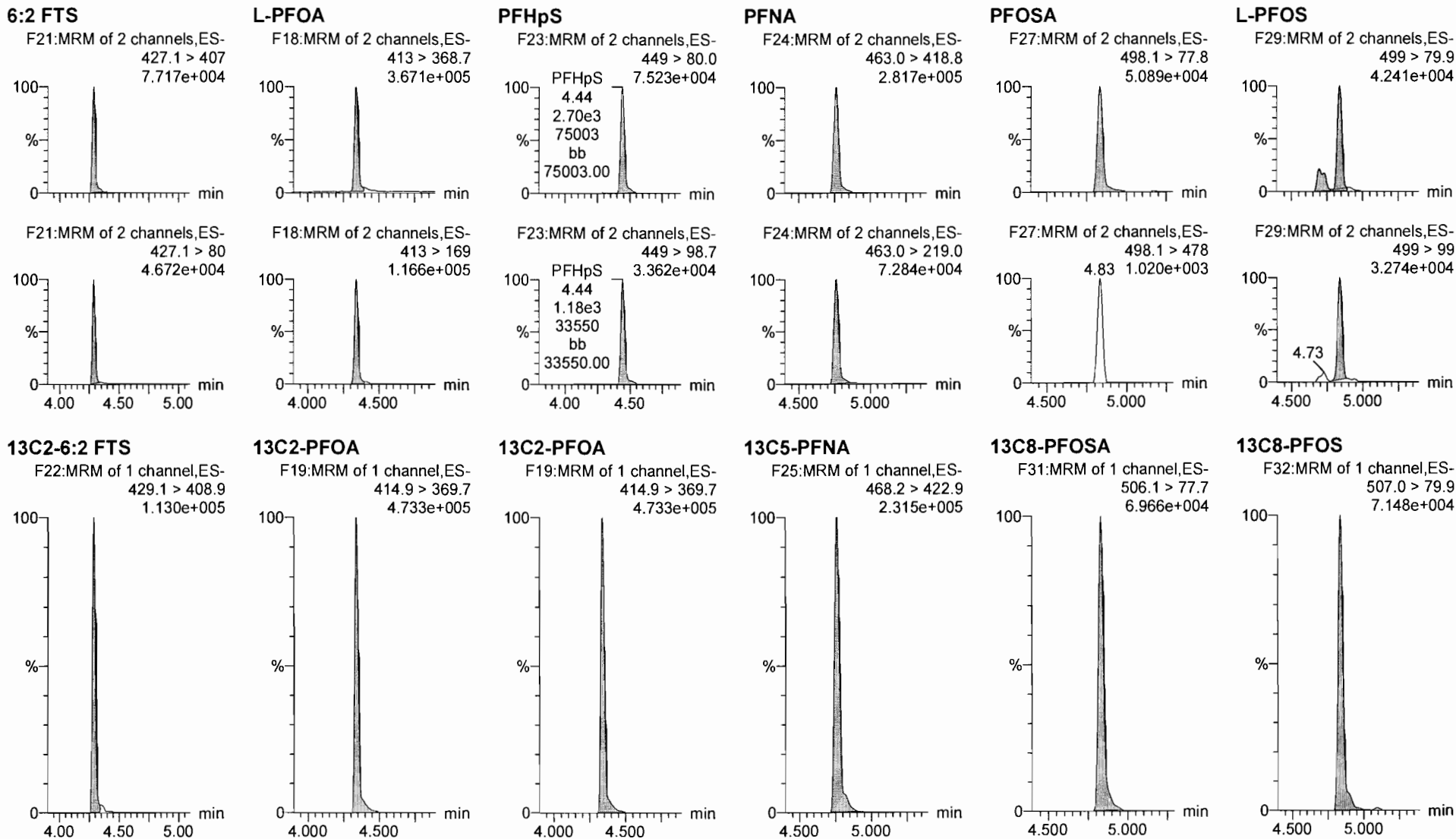


Dataset: U:\Q4.PRO\results\171227M2\171227M2-13.qld

Last Altered: Thursday, December 28, 2017 11:56:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:57:15 Pacific Standard Time

Name: 171227M2\_13, Date: 27-Dec-2017, Time: 19:39:38, ID: ICV171227M2-1 PFC ICV 17L2605, Description: PFC ICV 17L2605

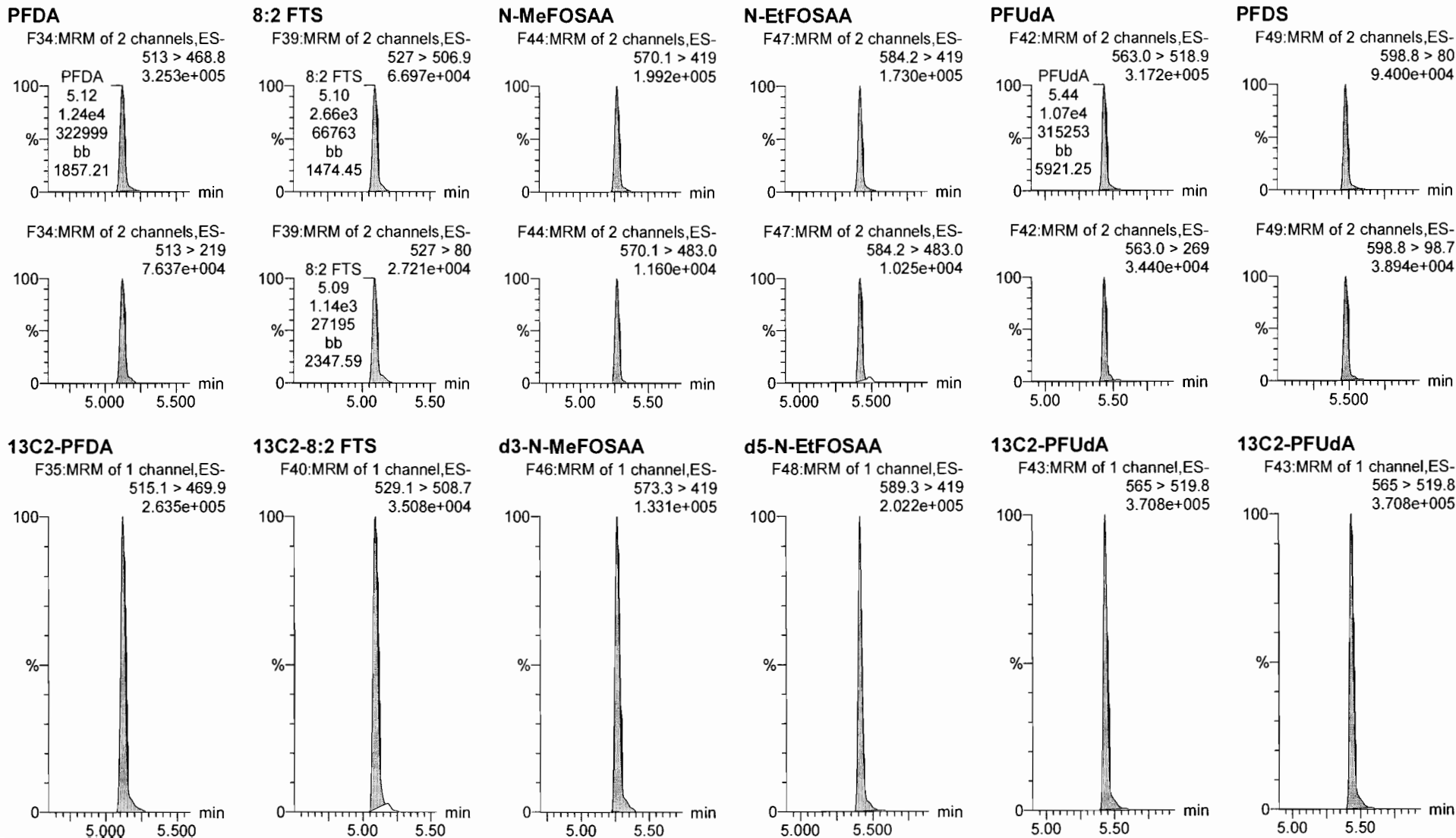


Dataset: U:\Q4.PRO\results\171227M2\171227M2-13.qld

Last Altered: Thursday, December 28, 2017 11:56:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:57:15 Pacific Standard Time

Name: 171227M2\_13, Date: 27-Dec-2017, Time: 19:39:38, ID: ICV171227M2-1 PFC ICV 17L2605, Description: PFC ICV 17L2605



Dataset: U:\Q4.PRO\results\171227M2\171227M2-13.qld

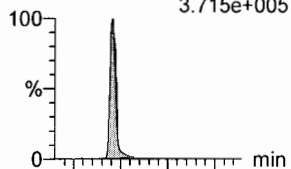
Last Altered: Thursday, December 28, 2017 11:56:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:57:15 Pacific Standard Time

Name: 171227M2\_13, Date: 27-Dec-2017, Time: 19:39:38, ID: ICV171227M2-1 PFC ICV 17L2605, Description: PFC ICV 17L2605

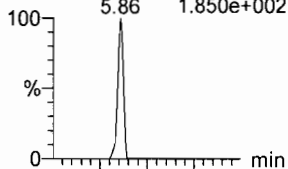
**PFD<sub>o</sub>A**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
3.715e+005



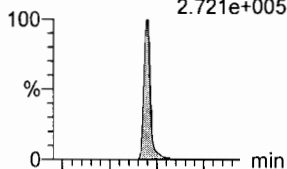
**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
1.850e+002



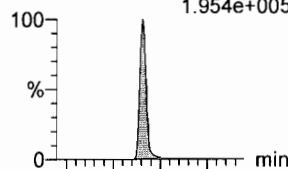
**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
2.721e+005



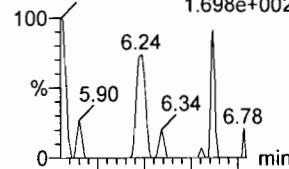
**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
1.954e+005



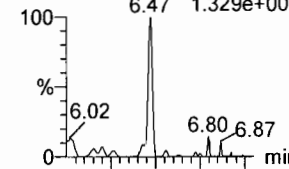
**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
1.698e+002

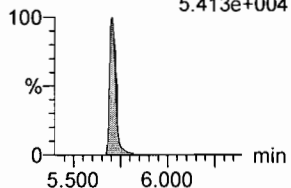


**PFH<sub>x</sub>DA**

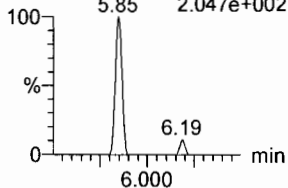
F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.329e+003



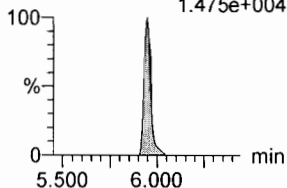
F50:MRM of 2 channels,ES-  
612.9 > 318.8  
5.413e+004



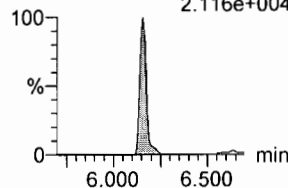
F33:MRM of 2 channels,ES-  
512.1 > 219  
2.047e+002



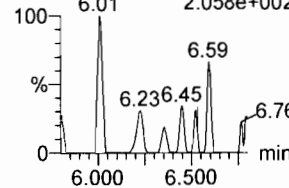
F56:MRM of 2 channels,ES-  
662.9 > 319  
1.475e+004



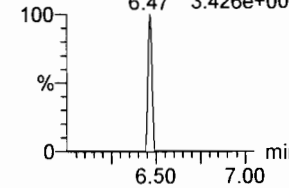
F57:MRM of 2 channels,ES-  
712.9 > 369  
2.116e+004



F38:MRM of 2 channels,ES-  
526.1 > 219  
2.058e+002

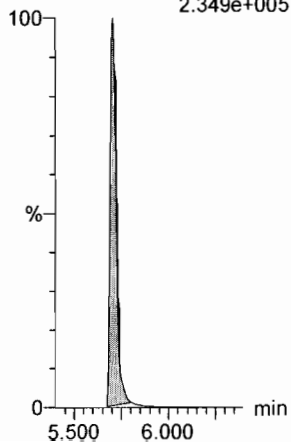


F59:MRM of 2 channels,ES-  
813.1 > 219  
3.426e+001



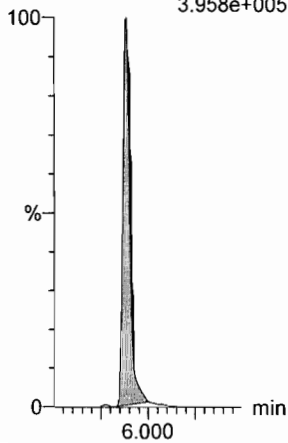
**13C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.349e+005



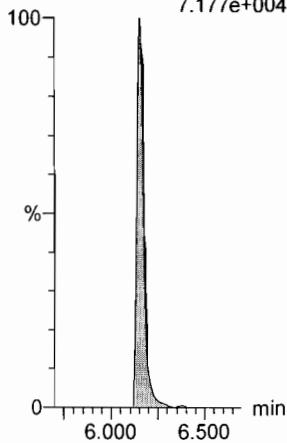
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.958e+005



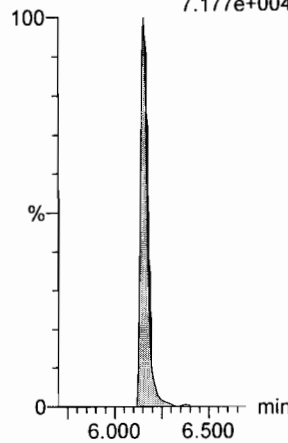
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
7.177e+004



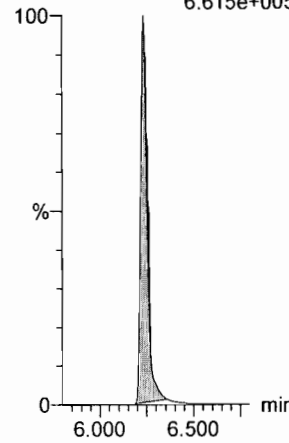
**13C2-PFT<sub>r</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
7.177e+004



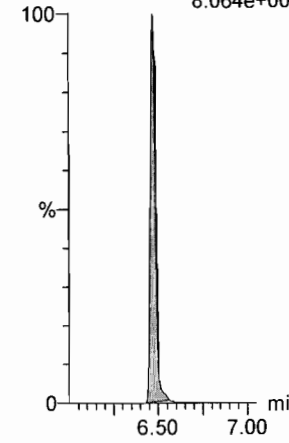
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
6.615e+005



**13C2-PFH<sub>x</sub>DA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
8.064e+004

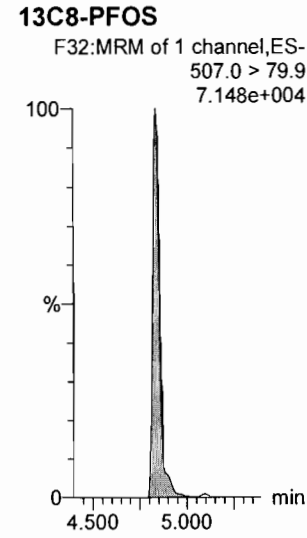
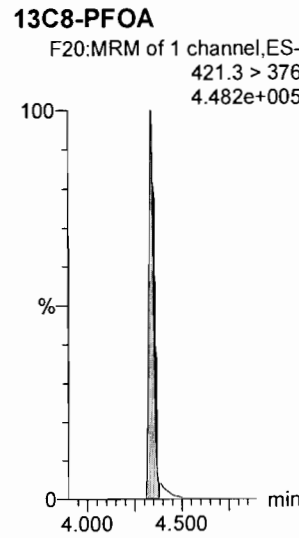
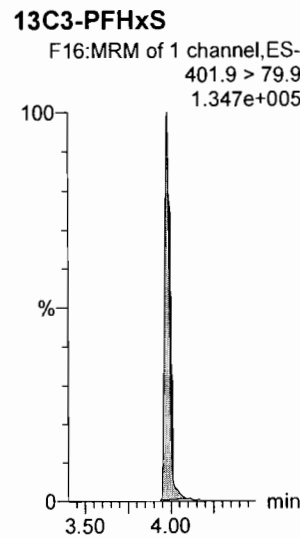
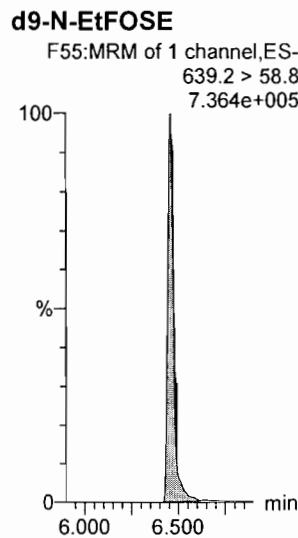
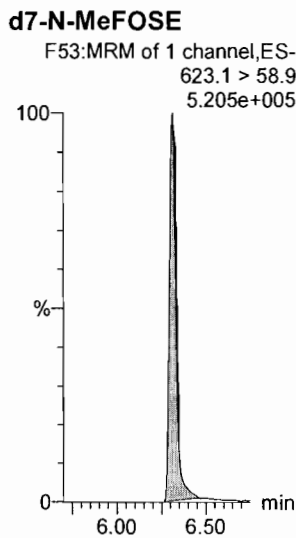
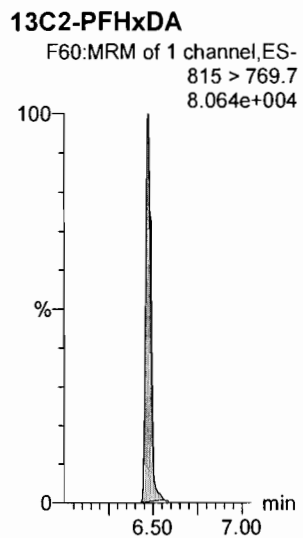
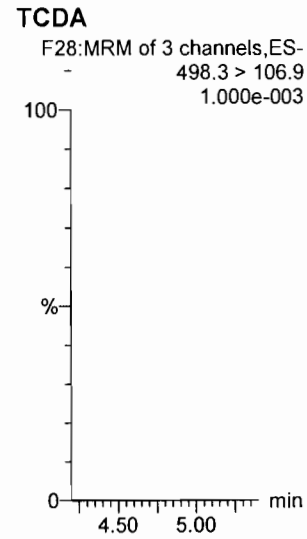
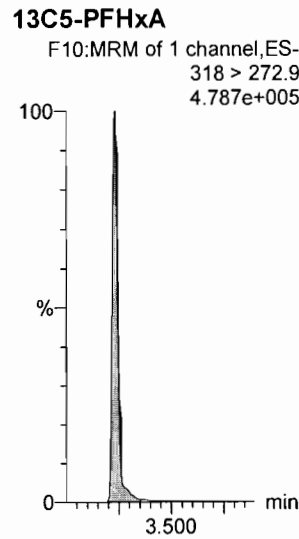
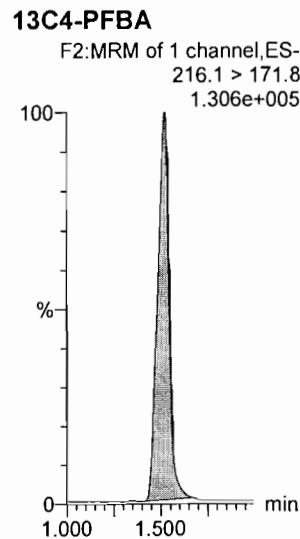
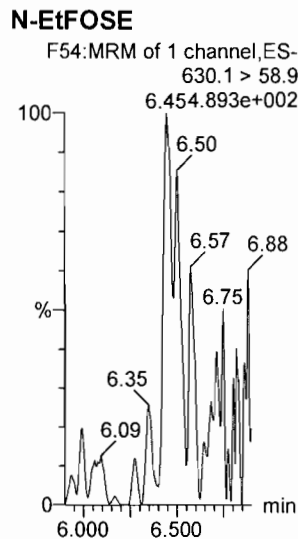
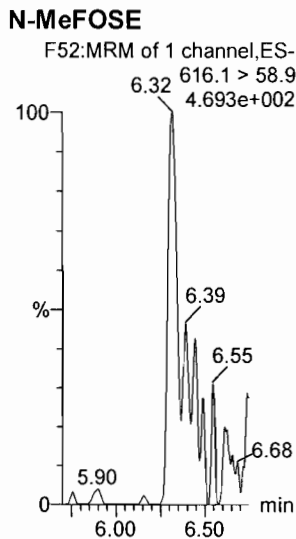
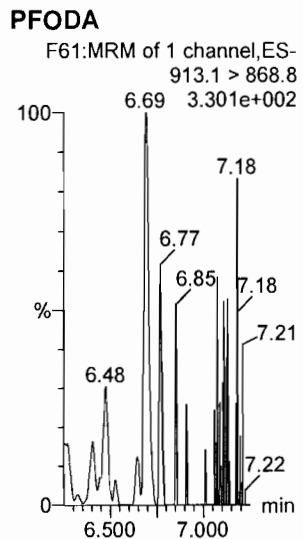


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Last Altered: Thursday, December 28, 2017 11:56:02 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:57:15 Pacific Standard Time

Name: 171227M2\_13, Date: 27-Dec-2017, Time: 19:39:38, ID: ICV171227M2-1 PFC ICV 17L2605, Description: PFC ICV 17L2605



Dataset: U:\Q4.PRO\results\171227M2\171227M2-13.qld

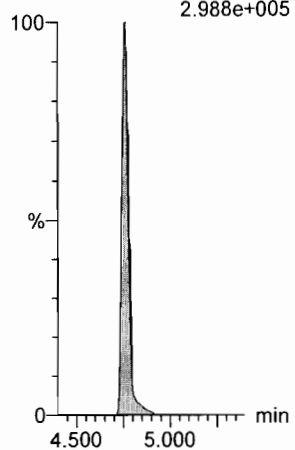
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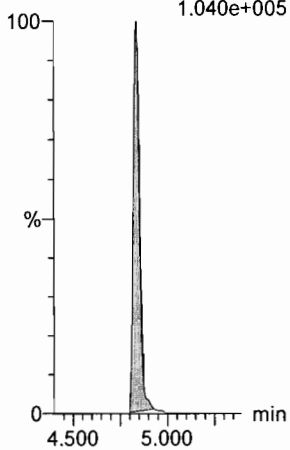
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.988e+005



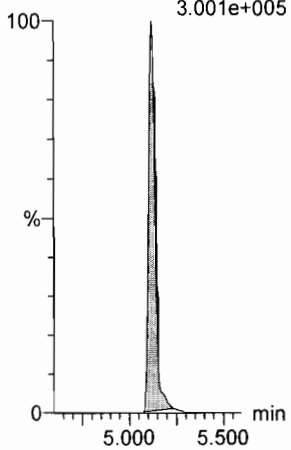
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
1.040e+005



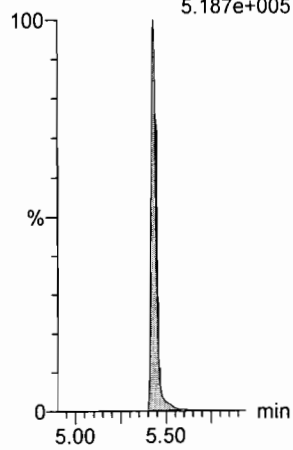
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.001e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
5.187e+005



Dataset: U:\Q4.PRO\results\171227M2\171227M2-12.qld

Last Altered: Thursday, December 28, 2017 11:43:38 Pacific Standard Time

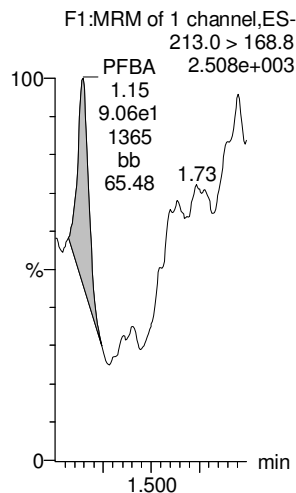
Printed: Thursday, December 28, 2017 11:44:00 Pacific Standard Time

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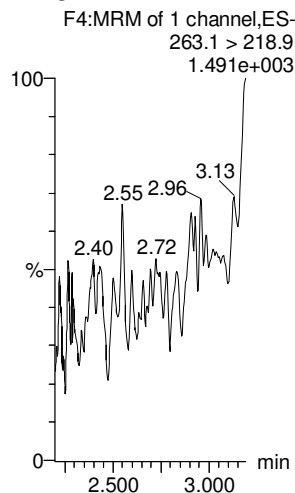
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-27-17\_FULL.cdb 28 Dec 2017 10:26:33

Name: 171227M2\_12, Date: 27-Dec-2017, Time: 19:28:28, ID: IPA, Description: IPA

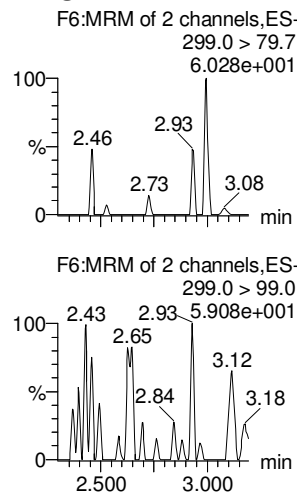
**PFBA**



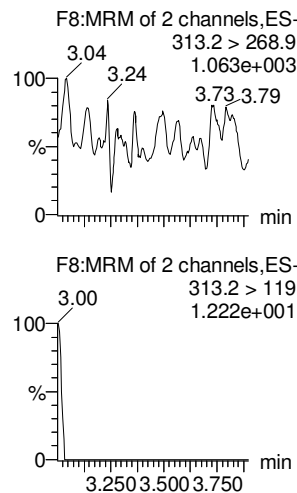
**PFPeA**



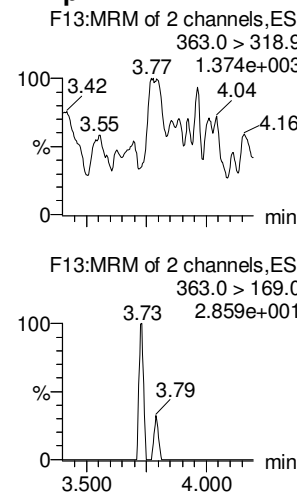
**PFBS**



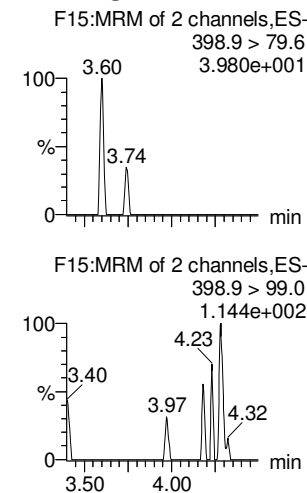
**PFHxA**



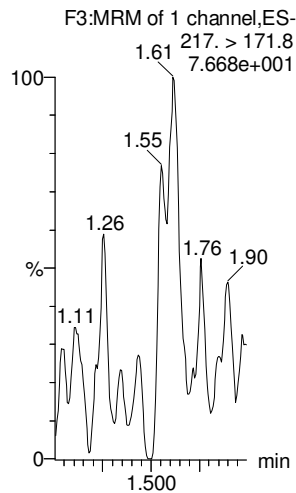
**PFHpA**



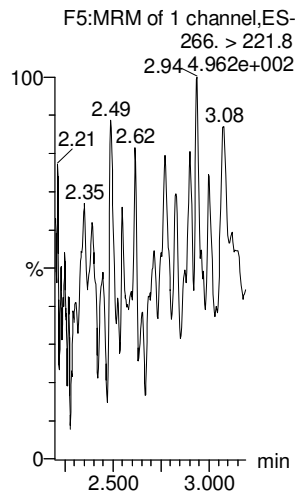
**L-PFHxS**



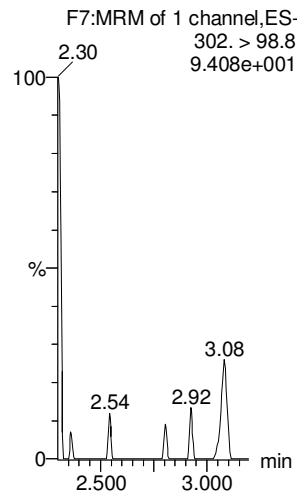
**13C3-PFBA**



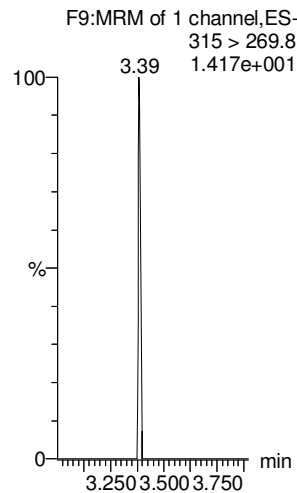
**13C3-PFPeA**



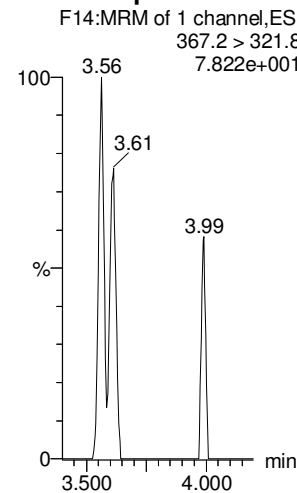
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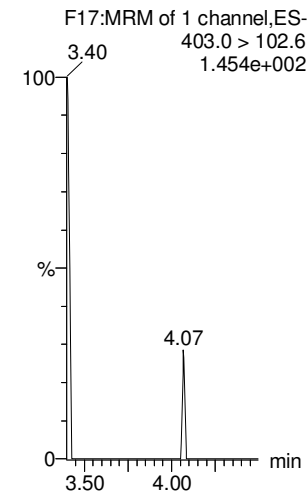
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



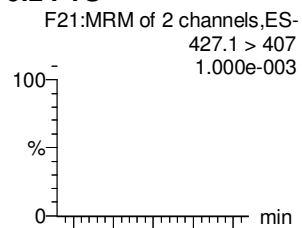
Dataset: U:\Q4.PRO\results\171227M2\171227M2-12.qld

Last Altered: Thursday, December 28, 2017 11:43:38 Pacific Standard Time

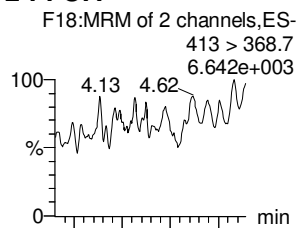
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Name: 171227M2\_12, Date: 27-Dec-2017, Time: 19:28:28, ID: IPA, Description: IPA

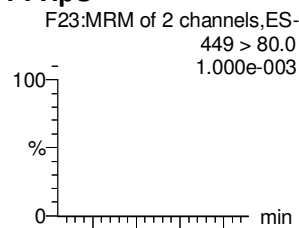
**6:2 FTS**



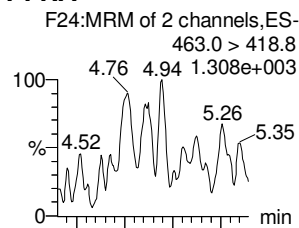
**L-PFOA**



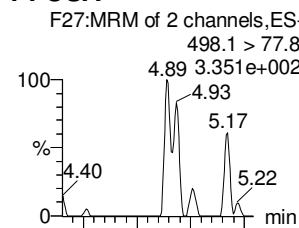
**PFHpS**



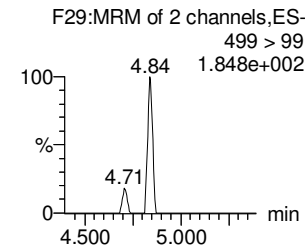
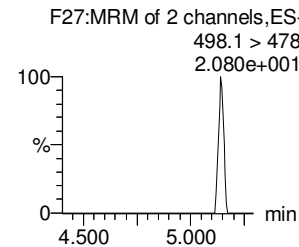
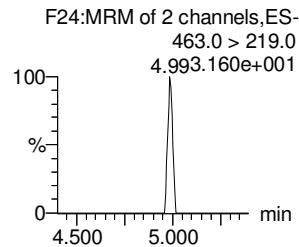
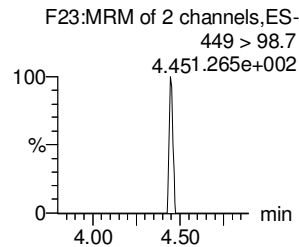
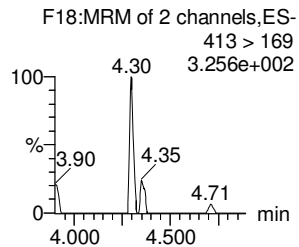
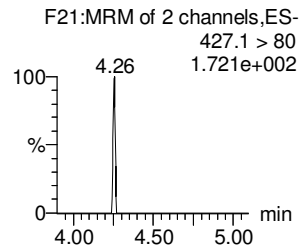
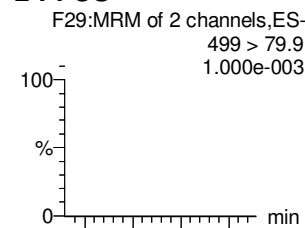
**PFNA**



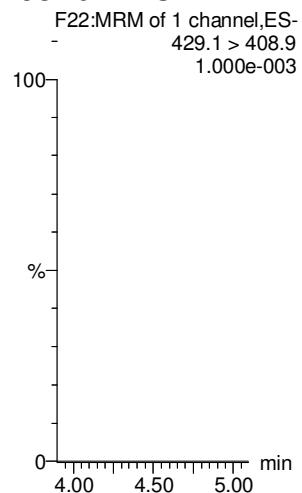
**PFOSA**



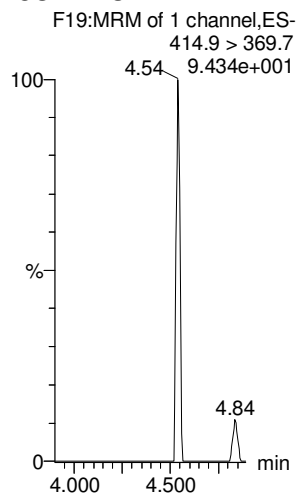
**L-PFOS**



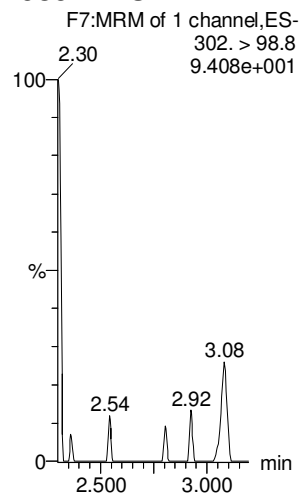
**13C2-6:2 FTS**



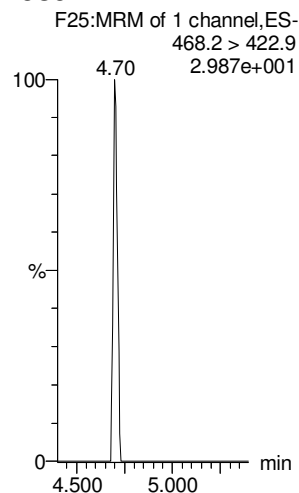
**13C2-PFOA**



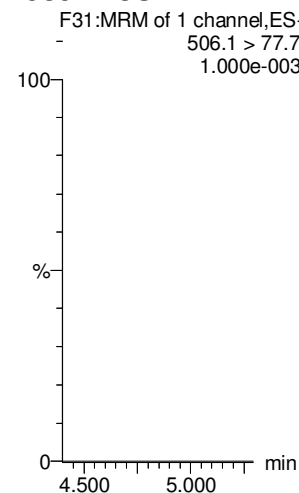
**13C3-PFBS**



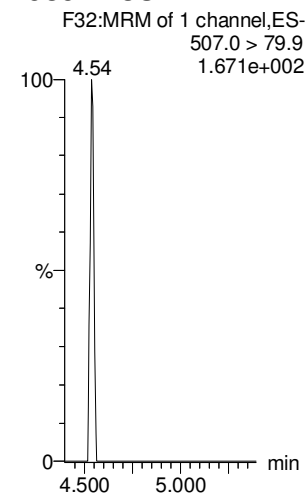
**13C5-PFNA**



**13C8-PFOSA**



**13C8-PFOS**



Dataset: U:\Q4.PRO\results\171227M2\171227M2-12.qld

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Name: 171227M2\_12, Date: 27-Dec-2017, Time: 19:28:28, ID: IPA, Description: IPA

**PFDA**

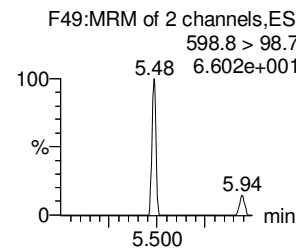
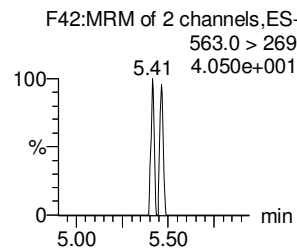
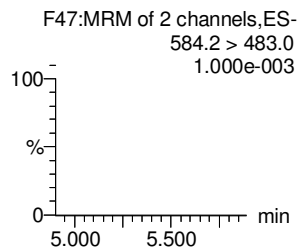
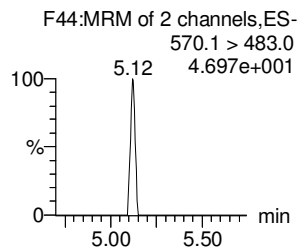
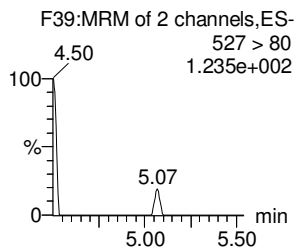
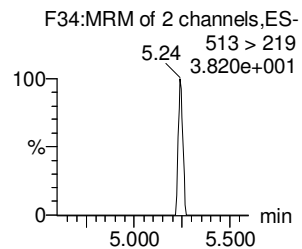
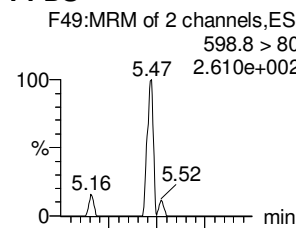
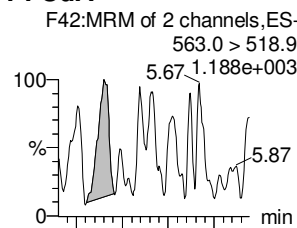
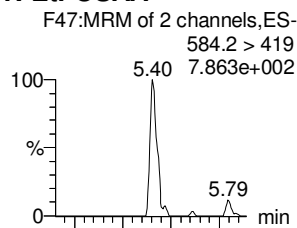
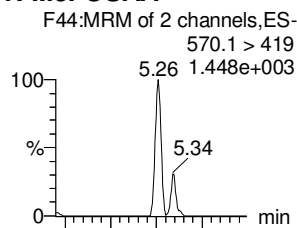
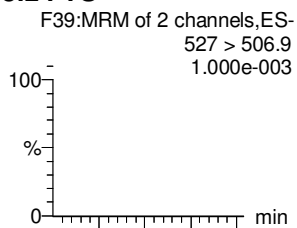
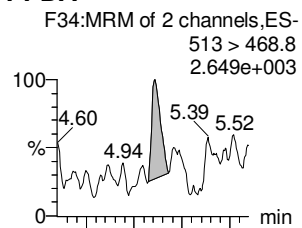
**8:2 FTS**

**N-MeFOSAA**

**N-EtFOSAA**

**PFUdA**

**PFDS**



**13C2-PFDA**

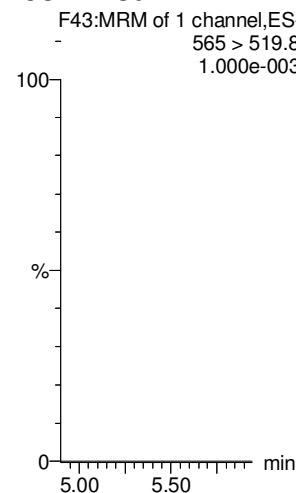
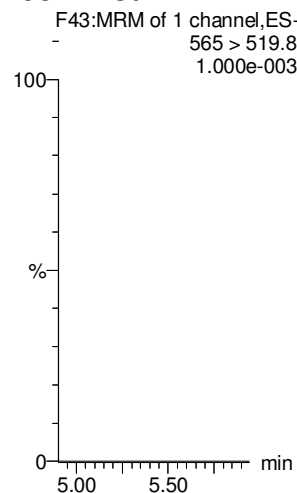
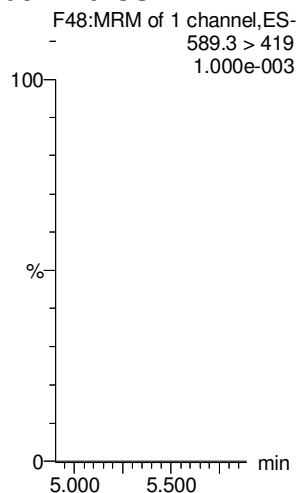
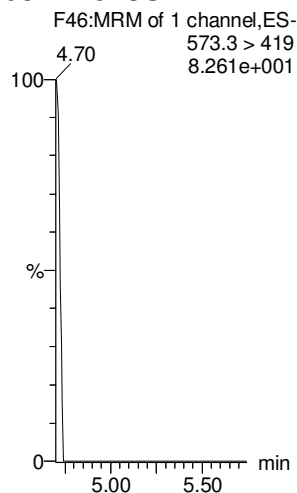
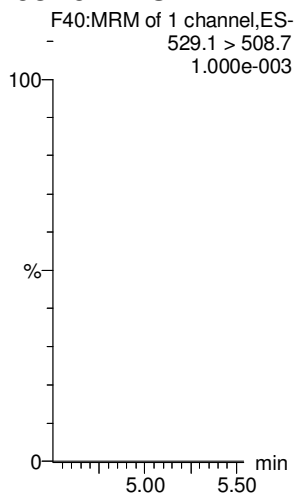
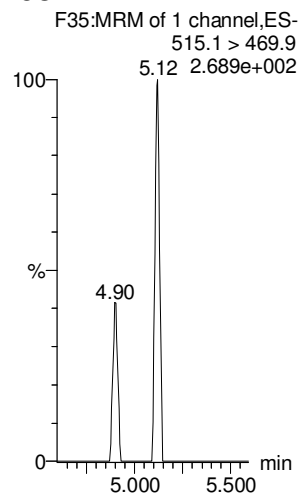
**13C2-8:2 FTS**

**d3-N-MeFOSAA**

**d5-N-EtFOSAA**

**13C2-PFUdA**

**13C2-PFUdA**





Dataset: U:\Q4.PRO\results\171227M2\171227M2-12.qld

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Name: 171227M2\_12, Date: 27-Dec-2017, Time: 19:28:28, ID: IPA, Description: IPA

**PFDoA**

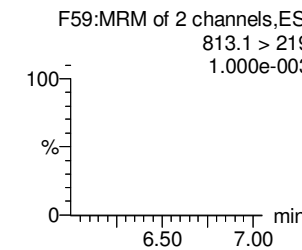
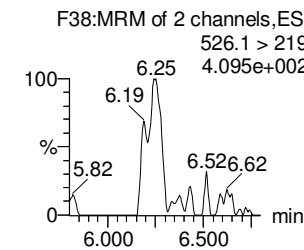
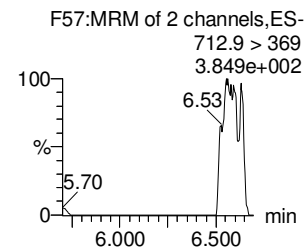
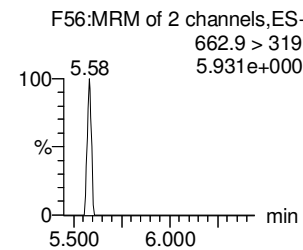
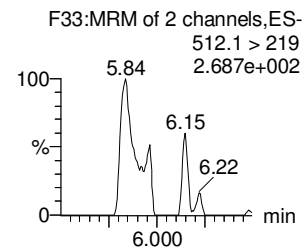
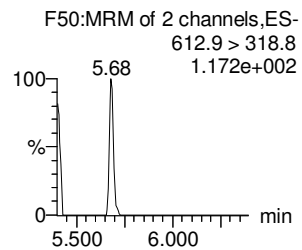
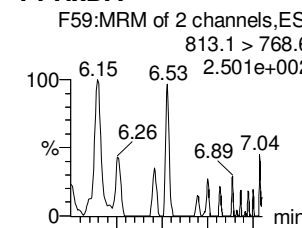
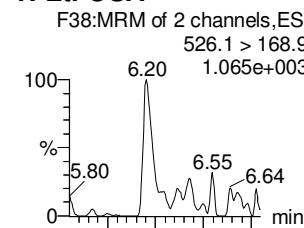
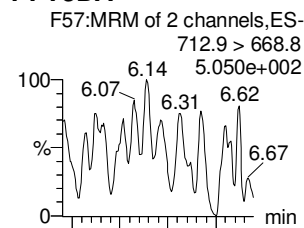
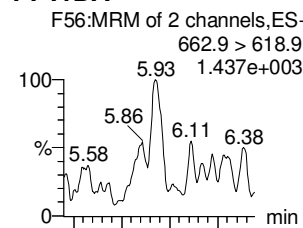
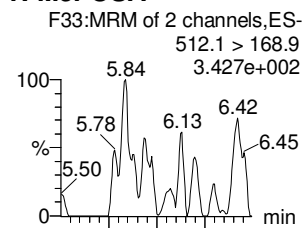
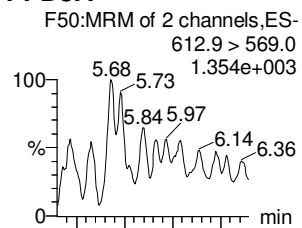
**N-MeFOSA**

**PFTrDA**

**PFTeDA**

**N-EtFOSA**

**PFHxDA**



**13C2-PFDoA**

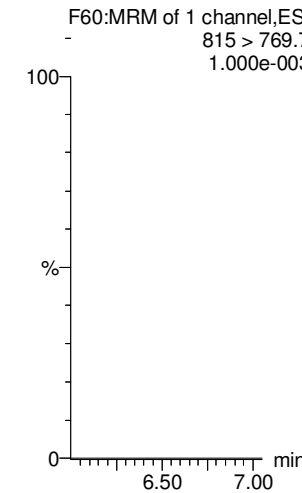
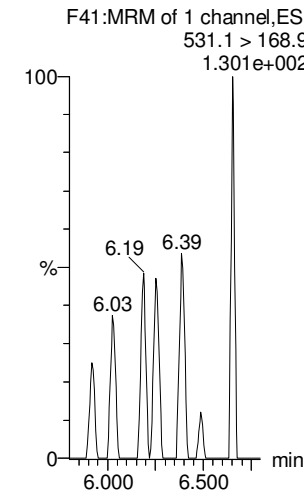
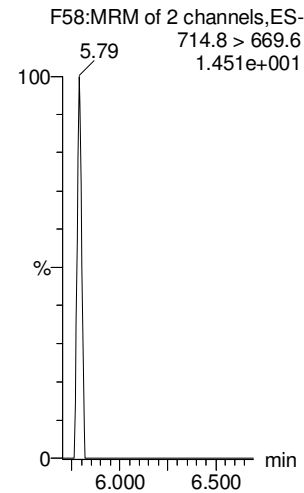
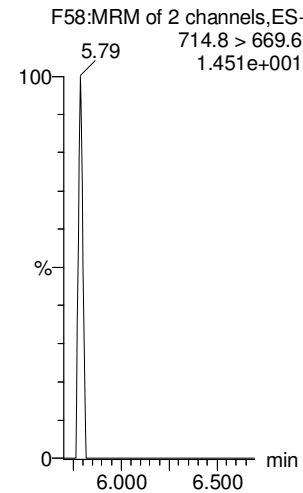
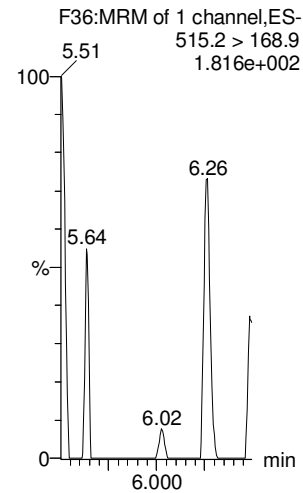
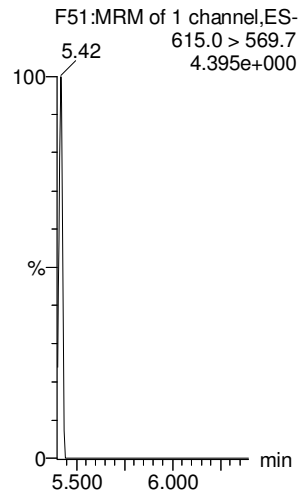
**d3-N-MeFOSA**

**13C2-PFTeDA**

**13C2-PFTeDA**

**d5-N-ETFOSA**

**13C2-PFHxDA**



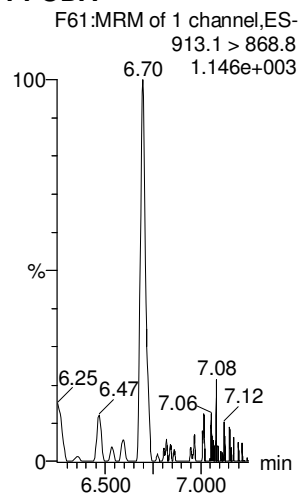
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Last Altered: Thursday, December 28, 2017 11:43:38 Pacific Standard Time

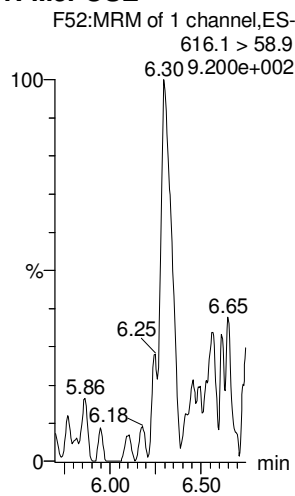
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Name: 171227M2\_12, Date: 27-Dec-2017, Time: 19:28:28, ID: IPA, Description: IPA

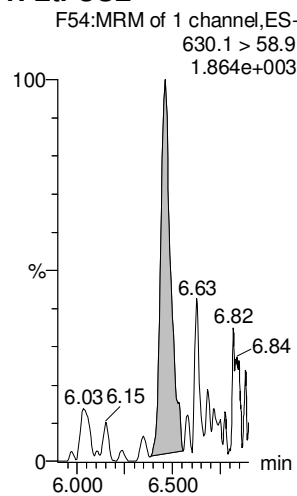
**PFODA**



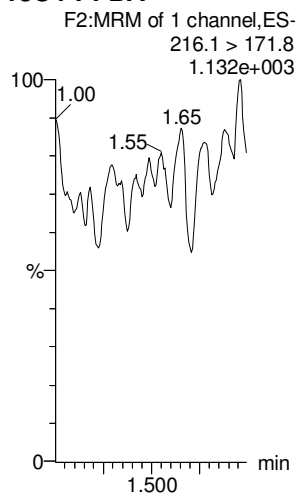
**N-MeFOSE**



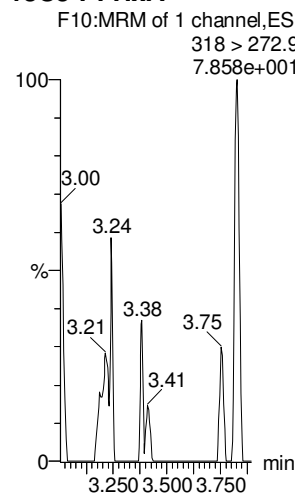
**N-EtFOSE**



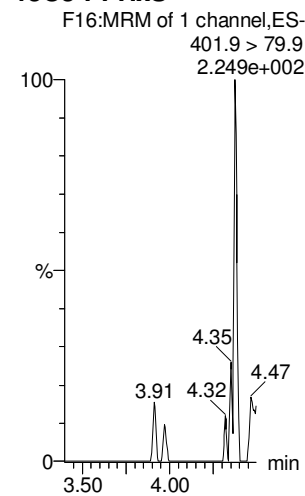
**13C4-PFBA**



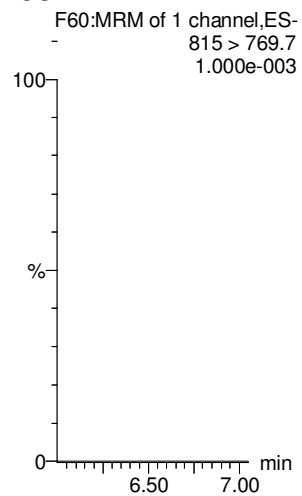
**13C5-PFHxA**



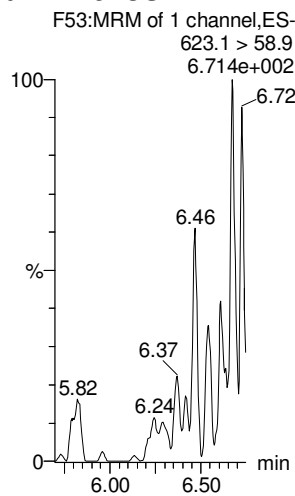
**13C3-PFHxS**



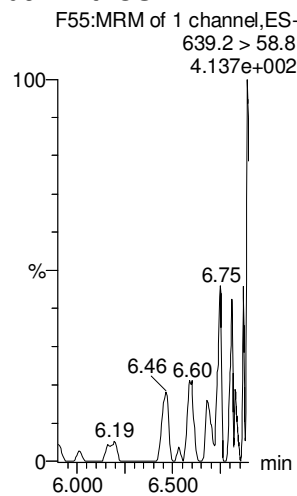
**13C2-PFHxDA**



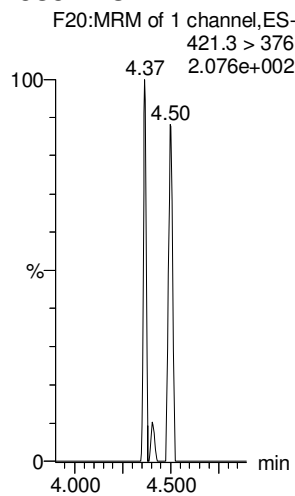
**d7-N-MeFOSE**



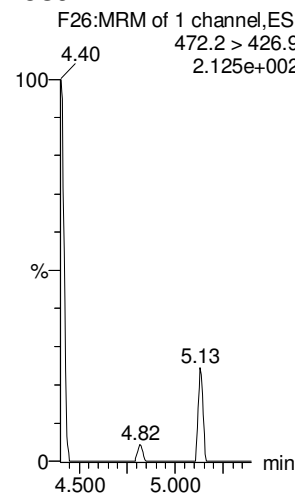
**d9-N-EtFOSE**



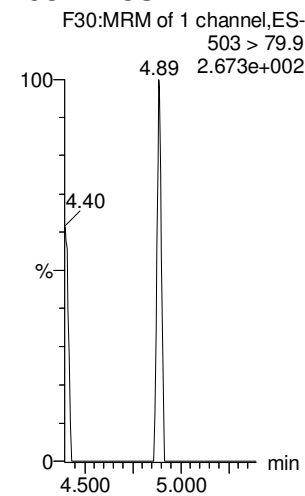
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



Dataset: U:\Q4.PRO\results\171227M2\171227M2-12.qld

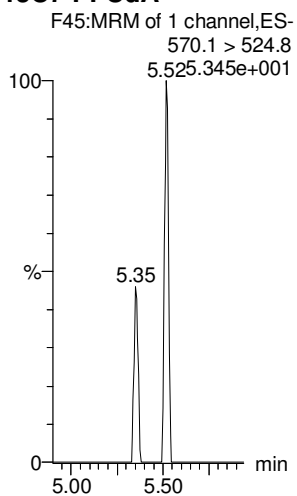
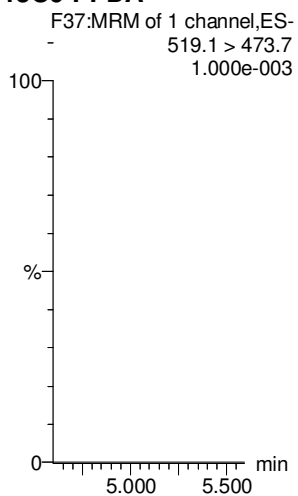
Last Altered: Thursday, December 28, 2017 11:43:38 Pacific Standard Time

Printed: Thursday, December 28, 2017 11:44:00 Pacific Standard Time

Name: 171227M2\_12, Date: 27-Dec-2017, Time: 19:28:28, ID: IPA, Description: IPA

13C6-PFDA

13C7-PFUdA





























**DATA VALIDATION SUMMARY REPORT  
NAS WHIDBEY ISLAND, WASHINGTON**

Client: CH2M HILL, Inc., Corvallis, Oregon  
 SDG: 1701911  
 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-S-17-1217	1701911-01	Water
3	WI-A06-EB03-120617	1701911-03	Water
5	WI-A06-6-S-07-1217	1701911-05	Water
5MS	WI-A06-6-S-07-1217MS	1701911-05MS	Water
5MSD	WI-A06-6-S-07-1217MSD	1701911-05MSD	Water
7	WI-A06-6-S-26-1217	1701911-07	Water
9	WI-A06-EB04-120717	1701911-09	Water
11	WI-A06-EB05-120717	1701911-11	Water
13	WI-A06-FB01-120717	1701911-13	Water
15	WI-A06-MW-10-1217	1701911-15	Water
17	WI-A06-6-S-14-1217	1701911-17	Water
19	WI-A06-6-S-44-1217	1701911-19	Water
21	WI-A06-EB06-120817	1701911-21	Water

A full data validation was performed on the analytical data for six water samples, four aqueous equipment blank samples, and one aqueous field blank sample collected on December 6-8, 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 as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

### **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 exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
B7L0145-BLK1	PFOA	0.716	U	1, 9, 15

### Field QC Blank

- Field QC sample result are summarized in the table below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WI-A06-EB03-120617	None - ND	-	-	-
WI-A06-EB04-120717	None - ND	-	-	-
WI-A06-EB05-120717	None - ND	-	-	-
WI-A06-FB01-120717	None - ND	-	-	-
WI-A06-EB06-120817	None - ND	-	-	-

### Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

### Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

MS/MSD Sample	Compound	MS %R/MSD %R/RPD	Qualifier	Affected Samples
5	PFTeDA	OK/151%/41.5	None	Sample ND

**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.

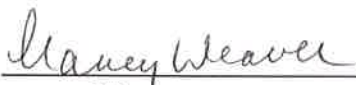
**Compound Quantitation**

- All criteria were met.

**Field Duplicate Sample Precision**

- Field duplicate samples were not collected.

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

<b>Data Qualifier</b>	<b>Definition</b>
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-S-17-1217**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-01	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FLFS	Date Collected: 06-Dec-17 13:05	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHxA	ND	2.29	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHpA	ND	0.620	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFHxS	ND	0.994	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFOA	5.25 <del>182</del> u	0.683	5.25	8.39	J.B	B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFOS	ND	0.847	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFNA	ND	0.850	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFDA	ND	1.56	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
MeFOSAA	ND	1.73	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFUnA	ND	1.10	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
EtFOSAA	ND	1.44	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFDoA	ND	0.831	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFTriDA	ND	0.518	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
PFTeDA	ND	0.792	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1
<b>Labeled Standards</b>	<b>% Recovery</b>	<b>Limits</b>	<b>Qualifiers</b>	<b>Batch</b>	<b>Extracted</b>	<b>Samp Size</b>	<b>Analyzed</b>	<b>Dilution</b>		
13C3-PFBS	87.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C2-PFHxA	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C4-PFHpA	95.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
18O2-PFHxS	98.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C2-PFOA	83.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C8-PFOS	78.6	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C5-PFNA	80.1	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C2-PFDA	74.4	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
d3-MeFOSAA	85.8	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C2-PFUnA	97.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
d5-EtFOSAA	83.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C2-PFDoA	138	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	1		
13C2-PFTeDA	118	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 00:18	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.

MBL

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**Sample ID: W1-A06-EB03-120617**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-03	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FLFS	Date Collected: 06-Dec-17 15:20	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.91	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHxA	ND	2.33	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHpA	ND	0.631	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFHxS	ND	1.01	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOA	ND	0.695	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFOS	ND	0.862	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFNA	ND	0.865	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFDA	ND	1.59	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
MeFOSAA	ND	1.76	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFUnA	ND	1.12	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
EiFOSAA	ND	1.46	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFDoA	ND	0.846	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFTrDA	ND	0.528	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
PFTeDA	ND	0.806	5.34	8.54		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	84.3	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C2-PFHxA	IS	90.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C4-PFHpA	IS	101	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
18O2-PFHxS	IS	89.1	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C2-PFOA	IS	102	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C8-PFOS	IS	67.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C5-PFNA	IS	83.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C2-PFDA	IS	68.4	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
d3-MeFOSAA	IS	69.2	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C2-PFUnA	IS	67.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
d5-EiFOSAA	IS	71.0	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C2-PFDoA	IS	76.1	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	1	
13C2-PFTeDA	IS	77.6	50 - 150		B7L0145	20-Dec-17	0.117 L	24-Dec-17 00:30	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.

www SL12/18

Sample ID: WI-A06-6-S-07-1217

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-05	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FLFS	Date Collected: 07-Dec-17 11:50	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	13.0	1.92	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHxA	40.7	2.34	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHpA	10.3	0.634	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFHxS	35.0	1.02	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFOA	39.2	0.699	5.39	8.59	B	B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFOS	ND	0.866	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFNA	ND	0.870	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFDA	ND	1.60	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
MeFOSAA	ND	1.77	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFUnA	ND	1.13	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
EtFOSAA	ND	1.47	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFDoA	ND	0.850	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFTrDA	ND	0.530	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
PFTeDA	ND	0.811	5.39	8.59		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	97.3	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C2-PFHxA	IS	93.3	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C4-PFHpA	IS	92.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
18O2-PFHxS	IS	97.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C2-PFOA	IS	92.0	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C8-PFOS	IS	101	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C5-PFNA	IS	85.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C2-PFDA	IS	87.8	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
d3-MeFOSAA	IS	89.7	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C2-PFUnA	IS	84.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
d5-EtFOSAA	IS	74.8	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C2-PFDoA	IS	96.1	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	1	
13C2-PFTeDA	IS	99.9	50 - 150		B7L0145	20-Dec-17	0.116 L	24-Dec-17 01:14	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.

new 51.268



**Sample ID: WI-A06-6-S-26-1217**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-07	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected: 07-Dec-17 13:40	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	9.28	1.86	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHxA	35.2	2.27	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHpA	13.4	0.616	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFHxS	47.8	0.987	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFOA	52.3	0.678	5.21	8.33	B	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFOS	5.60	0.841	5.21	8.33	J	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFNA	3.71	0.844	5.21	8.33	J	B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFDA	ND	1.55	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
MeFOSAA	ND	1.72	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFUnA	ND	1.09	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
EtFOSAA	ND	1.43	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFDaA	ND	0.825	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFTrDA	ND	0.515	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
PFTeDA	ND	0.787	5.21	8.33		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	102	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C2-PFHxA	IS	99.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C4-PFHpA	IS	98.5	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
18O2-PFHxS	IS	109	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C2-PFOA	IS	116	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C8-PFOS	IS	77.9	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C5-PFNA	IS	112	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C2-PFDA	IS	69.3	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
d3-MeFOSAA	IS	58.6	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C2-PFUnA	IS	71.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
d5-EtFOSAA	IS	61.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C2-PFDaA	IS	83.8	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	1	
13C2-PFTeDA	IS	71.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 01:26	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 SL1,2,1,8

Sample ID: WI-A06-EB04-120717

Modified EPA Method 537

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-09	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FIFS	Date Collected: 07-Dec-17 13:50	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.96	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHxA	ND	2.38	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHpA	ND	0.646	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFHxS	ND	1.03	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOA	ND	0.711	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFOS	ND	0.882	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFNA	ND	0.885	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFDA	ND	1.63	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
MeFOSAA	ND	1.80	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFUnA	ND	1.15	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
EtFOSAA	ND	1.50	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFDoA	ND	0.865	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFTrDA	ND	0.540	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
PFTeDA	ND	0.825	5.48	8.74		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	79.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFHxA	IS	66.9	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C4-PFHpA	IS	70.5	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
18O2-PFHxS	IS	62.6	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFOA	IS	74.2	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C8-PFOS	IS	69.5	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C5-PFNA	IS	56.3	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFDA	IS	56.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
d3-MeFOSAA	IS	60.6	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFUnA	IS	66.3	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
d5-EtFOSAA	IS	53.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFDoA	IS	88.7	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	1
13C2-PFTeDA	IS	71.4	50 - 150		B7L0145	20-Dec-17	0.114 L	24-Dec-17 01:37	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.

MBL

5.48 + 75 u

new 8/12/18

**Sample ID: WI-A06-EB05-120717**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-11	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected: 07-Dec-17 14:30	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.85	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHxA	ND	2.26	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHpA	ND	0.612	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFHxS	ND	0.980	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFOA	ND	0.674	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFOS	ND	0.835	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFNA	ND	0.838	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFDA	ND	1.54	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
MeFOSAA	ND	1.71	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFUnA	ND	1.09	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
EtFOSAA	ND	1.42	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFDoA	ND	0.820	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFTrDA	ND	0.511	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
PFTeDA	ND	0.781	5.17	8.28		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	97.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C2-PFHxA	IS	95.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C4-PFHpA	IS	98.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
18O2-PFHxS	IS	103	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C2-PFOA	IS	96.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C8-PFOS	IS	82.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C5-PFNA	IS	76.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C2-PFDA	IS	75.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
d3-MeFOSAA	IS	57.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C2-PFUnA	IS	61.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
d5-EtFOSAA	IS	59.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C2-PFDoA	IS	76.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	1	
13C2-PFTeDA	IS	68.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 01:48	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 81.26.8

**Sample ID: WI-A06-FB01-120717**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-13	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FIFS	Date Collected: 07-Dec-17 14:45	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHxA	ND	2.29	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHpA	ND	0.620	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFHxS	ND	0.993	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOA	ND	0.683	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFOS	ND	0.846	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFNA	ND	0.849	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFDA	ND	1.56	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
MeFOSAA	ND	1.73	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFUnA	ND	1.10	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
EtFOSAA	ND	1.44	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFDoA	ND	0.830	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFTTrDA	ND	0.518	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
PFTeDA	ND	0.792	5.25	8.39		B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
Labeled Standards	Type	Limits		Qualifiers		Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBs	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFHxA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C4-PFHpA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
18O2-PFHxS	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFOA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C8-PFOS	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C5-PFNA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFDA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
d3-MeFOSAA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFUnA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
d5-EtFOSAA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFDoA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	1
13C2-PFTeDA	IS	50 - 150				B7L0145	20-Dec-17	0.119 L	24-Dec-17 01:59	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.

MS/218

**Sample ID: W1-A06-MW-10-1217**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-15	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected: 07-Dec-17 09:45	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.30	2.00	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHxA	5.44	2.43	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHpA	ND	0.659	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFHxS	2.24	1.06	5.58	8.92	J	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFOA	<del>3.60</del> <b>5.58</b>	0.726	5.58	8.92	<del>J</del> <b>J</b>	B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFOS	ND	0.900	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFNA	ND	0.903	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFDA	ND	1.66	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
MeFOSAA	ND	1.84	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFUnA	ND	1.17	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
EtFOSAA	ND	1.53	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFDoA	ND	0.883	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFTrDA	ND	0.551	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
PFTeDA	ND	0.842	5.58	8.92		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	90.1	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFHxA	IS	88.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C4-PFHpA	IS	87.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
18O2-PFHxS	IS	88.1	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFOA	IS	89.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C8-PFOS	IS	79.6	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C5-PFNA	IS	79.6	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFDA	IS	78.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
d3-MeFOSAA	IS	81.2	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFUnA	IS	94.5	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
d5-EtFOSAA	IS	85.9	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFDoA	IS	73.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	1
13C2-PFTeDA	IS	83.3	50 - 150		B7L0145	20-Dec-17	0.112 L	24-Dec-17 02:10	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 812608

**Sample ID: WI-A06-6-S-14-1217**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-17	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FIFS	Date Collected: 08-Dec-17 13:10	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.2	1.88	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHxA	25.6	2.29	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHpA	3.61	0.621	5.25	8.41	J	B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFHxS	13.8	0.996	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOA	19.6	0.685	5.25	8.41	B	B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFOS	ND	0.849	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFNA	ND	0.852	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFDA	ND	1.57	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
MeFOSAA	ND	1.74	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFUnA	ND	1.10	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
EtFOSAA	ND	1.44	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFDoA	ND	0.833	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFTrDA	ND	0.519	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
PFTeDA	ND	0.794	5.25	8.41		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	90.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C2-PFHxA	IS	88.0	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C4-PFHpA	IS	93.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
18O2-PFHxS	IS	103	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C2-PFOA	IS	111	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C8-PFOS	IS	75.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C5-PFNA	IS	86.5	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C2-PFDA	IS	80.8	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
d3-MeFOSAA	IS	94.9	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C2-PFUnA	IS	86.3	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
d5-EtFOSAA	IS	107	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C2-PFDoA	IS	115	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	1	
13C2-PFTeDA	IS	103	50 - 150		B7L0145	20-Dec-17	0.119 L	24-Dec-17 02:21	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 1.2.18

**Sample ID: WI-A06-6-S-44-1217**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-19	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FIFS	Date Collected: 08-Dec-17 10:50	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	10.5	1.84	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHxA	44.7	2.25	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHpA	13.4	0.609	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFHxS	62.5	0.976	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOA	96.9	0.671	5.17	8.24	B	B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFOS	ND	0.832	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFNA	6.30	0.835	5.17	8.24	J	B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFDA	ND	1.54	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
MeFOSAA	ND	1.70	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFUnA	ND	1.08	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
EiFOSAA	ND	1.41	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFDoA	ND	0.816	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFTtDA	ND	0.509	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
PFTeDA	ND	0.778	5.17	8.24		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1
Labeled Standards	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBS	95.8	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C2-PFHxA	92.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C4-PFHpA	93.5	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
18O2-PFHxS	96.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C2-PFOA	94.3	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C8-PFOS	93.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C5-PFNA	90.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C2-PFDA	69.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
d3-MeFOSAA	69.1	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C2-PFUnA	84.2	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
d5-EiFOSAA	68.4	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C2-PFDoA	82.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	1		
13C2-PFTeDA	95.7	50 - 150		B7L0145	20-Dec-17	0.121 L	24-Dec-17 02:33	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.

MS1218

**Sample ID: WI-A06-EB06-120817**

**Modified EPA Method 537**

Client Data		Laboratory Data	
Name: CH2M Hill	Matrix: Water	Lab Sample: 1701911-21	Column: BEH C18
Project: WHIDBEY ISLAND / 695610.05.FI.FS	Date Collected: 08-Dec-17 14:00	Date Received: 09-Dec-17 10:05	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.87	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHxA	ND	2.28	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHpA	ND	0.618	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFHxS	ND	0.990	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFOA	ND	0.681	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFOS	ND	0.844	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFNA	ND	0.847	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFDA	ND	1.56	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
MeFOSAA	ND	1.73	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFUnA	ND	1.10	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
EtFOSAA	ND	1.43	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFDoA	ND	0.828	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFTeDA	ND	0.517	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
PFTeDA	ND	0.790	5.21	8.37		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	95.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFHxA	IS	94.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C4-PFHpA	IS	87.8	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
18O2-PFHxS	IS	85.3	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFOA	IS	84.0	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C8-PFOS	IS	98.4	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C5-PFNA	IS	78.2	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFDA	IS	69.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
d3-MeFOSAA	IS	67.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFUnA	IS	70.0	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
d5-EtFOSAA	IS	55.1	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFDoA	IS	82.6	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	1
13C2-PFTeDA	IS	83.7	50 - 150		B7L0145	20-Dec-17	0.120 L	24-Dec-17 02:44	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 8/12/18



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-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-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-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-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-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-14	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200760	486480.3	Ground water	WI-A06-6-S-14- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217-TOP	WG	07-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
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44-1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44-1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44-1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44-1217-TOP	WG	08-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-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217-TOP	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 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-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
6-S-17	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1202048	485524.4	Ground water	WI-A06-6-S-17- 1217-TOP	WG	06-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10- 1217	WG	07-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
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
MW-10 - 259	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200965	486020	Ground water	WI-A06-MW-10-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26-1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND_NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26-1217	WG	07-Dec-17	Perfluoroalkyl Compounds

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6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-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-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-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-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-26	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200934	488323.9	Ground water	WI-A06-6-S-26- 1217-TOP	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds

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6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-44	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	-9999	-9999	Ground water	WI-A06-6-S-44- 1217	WG	08-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds

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6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds
6-S-07	AREA 06 - CURRENT LANDFILL	WHIDBEY_ISLAND _NAS	WLM	Monitoring well	1701911	1200542	488637.2	Ground water	WI-A06-6-S-07- 1217	WG	07-Dec-17	Perfluoroalkyl Compounds