



**Groundwater Sample Results,  
Level 4 Laboratory Report, Electronic Data  
Deliverable, Data Validation Report, Sample Location  
Report, SDG 1701439**

*NAS*

*Chase Field TX*

December 2020



November 10, 2017

**Vista Work Order No. 1701439**

Ms. Nia Nikmanesh  
KMEA  
2423 Hoover Avenue  
National City, CA 91950

Dear Ms. Nikmanesh,

Enclosed are the additional results for the sample set received at Vista Analytical Laboratory on October 07, 2017. This sample set was analyzed on a rush turn-around time, under your Project Name 'BRAC PFAS,NAS Chase Field,TX-TO 0008'.

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. 1701439**

### **Case Narrative**

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

Two groundwater samples and three blank 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. As requested, the date was added after each of the blank samples as \_YYMMDD.

As requested on the CoC, the following samples were placed on extract and hold: "FRB05\_20171005", "FRB04\_20171005", and "FRB06\_20171006".

As requested on November 2, 2017, samples "FRB05\_20171005" and "FRB06\_20171006" were removed from hold. The results for these samples are included within this report.

#### **Analytical Notes:**

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

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 met the method acceptance criteria. The concentrations of PFDA and MeFOSAA were 139.6% and 133.5%, respectively, of the true values in the Continuing Calibration Verification; however, these analytes were not detected in the sample "FRB05\_20171005".

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.

## TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	14
Certifications.....	15
Sample Receipt.....	18
Extraction Information.....	21
Sample Data - Modified EPA Method 537.....	25
ICAL with ICV and IB.....	152



# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701439-01	FRB05_20171005	05-Oct-17 13:15	07-Oct-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701439-02	Site 3-GW-03GW02-20171005	05-Oct-17 16:30	07-Oct-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701439-03	FRB04_20171005	05-Oct-17 16:35	07-Oct-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701439-04	Site 4-GW-04GW01-20171006	06-Oct-17 08:00	07-Oct-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701439-05	FRB06_20171006	06-Oct-17 08:08	07-Oct-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

## **ANALYTICAL RESULTS**

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

Client Data					Laboratory Data				
Name:	KMEA	Matrix:	Aqueous		Lab Sample:	B7J0092-BLK1	Column:	BEH C18	
Project:	BRAC PFAS,NAS Chase Field,TX-TO 0008								

Analyte	Conc. (ug/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.000729	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFPeA	ND	0.00128	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFBS	ND	0.00179	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFHxA	ND	0.00218	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFHpA	ND	0.000591	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFHxS	ND	0.000947	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFOA	ND	0.000651	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFOS	ND	0.000807	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFNA	ND	0.000810	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFDA	ND	0.00149	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFOSA	ND	0.00177	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
MeFOSAA	ND	0.00165	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFDS	ND	0.00123	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFUnA	ND	0.00105	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
EtFOSAA	ND	0.00137	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFDaA	ND	0.000792	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFTTrDA	ND	0.000494	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
PFTeDA	ND	0.000755	0.00500	0.00800		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	89.9	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C3-PFPeA	IS	82.8	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C3-PFBS	IS	95.4	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C2-PFHxA	IS	87.5	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C4-PFHpA	IS	86.9	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
18O2-PFHxS	IS	89.9	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C2-PFOA	IS	82.4	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C8-PFOS	IS	102	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C5-PFNA	IS	83.4	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C2-PFDA	IS	72.7	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C8-PFOSA	IS	53.6	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
d3-MeFOSAA	IS	64.4	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C2-PFUnA	IS	70.7	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
d5-EtFOSAA	IS	73.0	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C2-PFDaA	IS	62.0	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	1
13C2-PFTeDA	IS	63.1	50 - 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 13:10	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: OPR					Modified EPA Method 537					
<b>Client Data</b> Name: KMEA Project: BRAC PFAS,NAS Chase Field,TX-TO 0008 Matrix: Aqueous					<b>Laboratory Data</b> Lab Sample: B7J0092-BS1 Column: BEH C18					
Analyte	Amt Found (ug/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	0.0699	0.0800	87.3	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFPeA	0.0707	0.0800	88.3	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFBS	0.0714	0.0800	89.2	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFHxA	0.0741	0.0800	92.7	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFHpA	0.0708	0.0800	88.5	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFHxS	0.0743	0.0800	92.9	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFOA	0.0667	0.0800	83.4	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFOS	0.0606	0.0800	75.7	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFNA	0.0696	0.0800	87.1	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFDA	0.0818	0.0800	102	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFOSA	0.0596	0.0800	74.6	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
MeFOSAA	0.0715	0.0800	89.4	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFDS	0.0997	0.0800	125	60-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFUnA	0.0707	0.0800	88.3	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
EtFOSAA	0.0622	0.0800	77.8	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFDaA	0.0766	0.0800	95.7	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFTTrDA	0.0917	0.0800	115	60-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
PFTeDA	0.0582	0.0800	72.8	70-130		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
Labeled Standards	Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS		89.9	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C3-PFPeA	IS		79.3	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C3-PFBS	IS		81.8	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C2-PFHxA	IS		83.1	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C4-PFHpA	IS		84.8	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
18O2-PFHxS	IS		82.4	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C2-PFOA	IS		82.5	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C8-PFOS	IS		97.7	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C5-PFNA	IS		81.7	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C2-PFDA	IS		68.7	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C8-PFOSA	IS		57.8	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
d3-MeFOSAA	IS		57.6	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C2-PFUnA	IS		66.4	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
d5-EtFOSAA	IS		61.9	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C2-PFDaA	IS		66.6	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1
13C2-PFTeDA	IS		92.0	50- 150		B7J0092	17-Oct-17	0.125 L	26-Oct-17 12:03	1



**Sample ID: FRB05\_20171005**
**Modified EPA Method 537**

Client Data					Laboratory Data				
Name:	KMEA	Matrix:	Blank Water		Lab Sample:	1701439-01	Column:	BEH C18	
Project:	BRAC PFAS,NAS Chase Field,TX-TO 0008	Date Collected:	05-Oct-17 13:15		Date Received:	07-Oct-17 09:23			

Analyte	Conc. (ug/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.000759	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFPeA	ND	0.00133	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFBS	ND	0.00186	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFHxA	ND	0.00227	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFHpA	ND	0.000615	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFHxS	ND	0.000986	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFOA	ND	0.000678	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFOS	ND	0.000840	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFNA	ND	0.000843	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFDA	ND	0.00155	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFOSA	ND	0.00184	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
MeFOSAA	ND	0.00172	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFDS	ND	0.00128	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFUnA	ND	0.00109	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
EtFOSAA	ND	0.00143	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFDaA	ND	0.000825	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFTTrDA	ND	0.000514	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
PFTeDA	ND	0.000786	0.00521	0.00833		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	84.5	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C3-PFPeA	IS	83.5	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C3-PFBS	IS	88.1	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C2-PFHxA	IS	82.8	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C4-PFHpA	IS	82.1	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
18O2-PFHxS	IS	80.2	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C2-PFOA	IS	78.2	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C8-PFOS	IS	98.7	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C5-PFNA	IS	78.6	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C2-PFDA	IS	57.3	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C8-PFOSA	IS	82.8	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
d3-MeFOSAA	IS	68.8	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C2-PFUnA	IS	69.9	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
d5-EtFOSAA	IS	71.0	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C2-PFDaA	IS	95.4	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	1
13C2-PFTeDA	IS	105	50 - 150		B7J0092	17-Oct-17	0.120 L	07-Nov-17 22:17	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: FRB06\_20171006**
**Modified EPA Method 537**

Client Data					Laboratory Data				
Name:	KMEA	Matrix:	Blank Water		Lab Sample:	1701439-05	Column:	BEH C18	
Project:	BRAC PFAS,NAS Chase Field,TX-TO 0008	Date Collected:	06-Oct-17 08:08		Date Received:	07-Oct-17 09:23			

Analyte	Conc. (ug/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	ND	0.000763	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFPeA	ND	0.00134	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFBS	ND	0.00187	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFHxA	ND	0.00228	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFHpA	ND	0.000618	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFHxS	ND	0.000991	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFOA	ND	0.000681	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFOS	ND	0.000844	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFNA	ND	0.000847	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFDA	ND	0.00156	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFOSA	ND	0.00185	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
MeFOSAA	ND	0.00173	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFDS	ND	0.00129	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFUnA	ND	0.00110	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
EtFOSAA	ND	0.00143	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFDoA	ND	0.000829	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFTTrDA	ND	0.000517	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
PFTeDA	ND	0.000790	0.00525	0.00837		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	86.2	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C3-PFPeA	IS	86.3	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C3-PFBS	IS	94.6	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C2-PFHxA	IS	85.6	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C4-PFHpA	IS	88.3	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
18O2-PFHxS	IS	86.3	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C2-PFOA	IS	73.2	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C8-PFOS	IS	74.6	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C5-PFNA	IS	74.9	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C2-PFDA	IS	56.2	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C8-PFOSA	IS	56.1	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
d3-MeFOSAA	IS	64.8	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C2-PFUnA	IS	72.2	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
d5-EtFOSAA	IS	64.8	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C2-PFDoA	IS	79.3	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	1
13C2-PFTeDA	IS	54.1	50 - 150		B7J0092	17-Oct-17	0.119 L	03-Nov-17 14:08	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

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

## NELAP Accredited Test Methods

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

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

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

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

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

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

Vista PM: Karen Volpendesta

1701438

[illegible]



1104 Windfield Way  
El Dorado Hills, CA 95762  
TEL: 916-873-1520

17014 39  
/olpendesta 1.0°

DATE: 10/5/2017 - 10/6/2017

PAGE: 3 OF 1

[illegible]

revised COC received via email 4/10/17



# Sample Log-in Checklist

Vista Work Order #: 1701432 1701439 TAT 10 business days

Samples Arrival:	Date/Time <u>10/07/17 0923</u>	Initials: <u>WWS</u>	Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>10/07/17 0947</u> <u>10/10/17 1025</u>	Initials: <u>WWS</u> <u>BBB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>B-5</u>
Delivered By:	<u>FedEx</u> UPS On Trac GSO DHL Hand Delivered Other		
Preservation:	<u>Ice</u> Blue Ice Dry Ice None		
Temp °C: <u>0.9</u> (uncorrected)	Time: <u>0936</u>	Thermometer ID: IR-1	
Temp °C: <u>1.0</u> (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # <u>8081 9079 5264</u>	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	✓		
Preservation Documented:	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> <u>Trizma</u> <u>None</u> (*) <u>Yes</u>	No	NA
Shipping Container	<u>Vista</u> Client <u>Retain</u> Return Dispose		

Comments: samples received in 125ml HDPE bottles with an exception of samples:

WO# 1701432

- \* FRB01-20171005
- \* EBO1-20171002
- \* DUP01 (B bottle has low volume)
- \* Site 3-GW-421648 was 10/9/17
- \* Site 3-DW-421648-20171005 (B bottle has low volume)

\* received in 250ml HDPE bottles  
 (\*) trizma present for DW sample

## **EXTRACTION INFORMATION**

Process Sheet  
Workorder: 1701439

Prep Expiration: 2017-Oct-19  
Client: KMEA

Workorder Due: 23-Oct-17 00:00

TAT: 16

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

Prep Batch: B750092

Prep Data Entered: 10-18-17 HLC  
Date and Initials

Version: TX+MeFOSAA+EtFOSAA (18 Analytes)  
DoD: DoD QSM 5.1

Initial Sequence:

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701439-01	A	<input type="checkbox"/>	<input type="checkbox"/>	FRB05_20171005 "FRB05" ✓	Ext and Hold	WR-2 B-5	HDPE Bottle, 125 mL
1701439-02	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Site 3-GW-03GW02-20171005		WR-2 B-5	HDPE Bottle, 125 mL
1701439-03		<input type="checkbox"/>	<input type="checkbox"/>	FRB04_20171005 "FRB04" ✓	Ext and Hold	WR-2 B-5	HDPE Bottle, 125 mL
1701439-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Site 4-GW-04GW01-20171006 ✓		WR-2 B-5	HDPE Bottle, 125 mL
1701439-05		<input type="checkbox"/>	<input type="checkbox"/>	FRB06_20171006 "FRB06" ✓	Ext and Hold	WR-2 B-5	HDPE Bottle, 125 mL

Pre-Prep Check Out: KC 10/16/17  
Pre-Prep Check In: KC 10/14/17

Prep Check Out: KC 10/17/17  
Prep Check In: NA

Prep Reconciled Initials/Date: KC 10/16/17  
Spike Reconciled Initials/Date: HLC 10-17-17  
VialBoxID: Funday

# PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mRL)

B7J0092

Chemist: 7/c

Prep Date/Time: 16 Oct-17 08:43

10.17.17

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initials: KC 10/16/17

Balance ID: ABMS-8

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 <u>KC 10/17/17</u>	RS CHEM/WIT DATE
<input type="checkbox"/>	B7J0092-BLK1	5	2	0	2	NA	NA	(0.125)	<u>7/c KC 10.17.17</u>	<u>KC 10/17/17</u>	<u>7/c KC 10.17.17</u>
<input type="checkbox"/>	B7J0092-BS1	5	2	0	2	↓	↓	(0.125)			
<input type="checkbox"/>	1701432-08RE1A	7	2	0	3	88.07	27.17	0.06090			
<input type="checkbox"/>	1701439-01	5	2	0	2	147.33	27.22	0.12006			
<input type="checkbox"/>	1701439-02	6	2	0	3	142.96	27.18	0.11578 ✓			
<input type="checkbox"/>	1701439-03	4	2	0	2	147.58	27.17	0.12041 ✓			
<input type="checkbox"/>	1701439-04	5	2	0	4	146.09	27.09	0.11960 ✓			
<input type="checkbox"/>	1701439-05	5	2	0	2	146.65	27.18	0.11947 ✓			

IS: 17 I 3002, 10µl (V4)

IS SUP: NA

NS: 1762428, 10µl (V1)

RS: 17 I 2619, 10µl (V3)

SPE Chem: Shoda XAW 33um 200mg

Ele SOLV: MeOH / 5% Nitro in MeOH

Final Volume(s) 1 mL

Notes: (A) Spilled while prepping, low volume. KC 10/16/17

Batch: B7J0092

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701432-08RE1	0.0609 ✓	N/A	NA	1000	17-Oct-17 08:43	HAC			Groundwater	537M PFAS DOD (LOQ as
1701439-01	0.12006 ✓			1000	17-Oct-17 08:43	HAC			Blank Water	537M PFAS DOD (LOQ as
1701439-02	0.11578 ✓			1000	17-Oct-17 08:43	HAC			Blank Water	537M PFAS DOD (LOQ as
1701439-03	0.12041 ✓			1000	17-Oct-17 08:43	HAC			Blank Water	537M PFAS DOD (LOQ as
1701439-04	0.1196 ✓			1000	17-Oct-17 08:43	HAC			Blank Water	537M PFAS DOD (LOQ as
1701439-05	0.11947 ✓			1000	17-Oct-17 08:43	HAC			Blank Water	537M PFAS DOD (LOQ as
B7J0092-BLK1	0.125			1000	17-Oct-17 08:43	HAC				QC
B7J0092-BS1	0.125		41	1000	17-Oct-17 08:43	HAC	17G2428 ✓	10 ✓		QC

77C  
10-18-17

## **SAMPLE DATA – MODIFIED EPA METHOD 537**

Dataset: U:\Q4.PRO\results\171026M1\171026M1-22.qld

Last Altered: Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed: Friday, October 27, 2017 13:09:01 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 11:45:01

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-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	1 PFBA	213.0 > 168.8		6.75e3	0.125		1.32				
2	2 PFPeA	263.1 > 218.9		7.35e3	0.125		2.31				
3	3 PFBS	299.0 > 79.7		1.02e3	0.125		2.59				
4	4 PFHxA	313.2 > 268.9		3.04e3	0.125		3.08				
5	5 PFHpA	363.0 > 318.9		6.97e3	0.125		3.70				
6	6 L-PFHxS	398.9 > 79.6	4.23e0	8.55e2	0.125		3.86	3.76	0.0619	0.849	
7	9 L-PFOA	413 > 368.7	2.11e2	1.05e4	0.125		4.23	4.15	0.252		
8	12 PFNA	463.0 > 418.8		9.67e3	0.125		4.67				
9	13 PFOSA	498.1 > 77.8		2.01e3	0.125		4.72				
10	14 L-PFOS	499 > 79.9		2.53e3	0.125		4.76				
11	16 PFDA	513 > 468.8		9.48e3	0.125		5.05				
12	18 N-MeFOSAA	570.1 > 419		3.51e3	0.125		5.21				
13	19 N-EtFOSAA	584.2 > 419		3.99e3	0.125		5.37				
14	20 PFUnA	563.0 > 518.9	4.71e1	1.12e4	0.125		5.38	5.30	0.0523	0.140	
15	21 PFDS	598.8 > 80		1.12e4	0.125		5.43				
16	22 PFDoA	612.9 > 569.0		1.08e4	0.125		5.67				
17	24 PFTrDA	662.9 > 618.9		1.08e4	0.125		5.92				

Dataset: U:\Q4.PRO\results\171026M1\171026M1-22.qld

Last Altered: Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed: Friday, October 27, 2017 13:09:15 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 11:45:01

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-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	25 PFTeDA	712.9 > 668.8		8.97e3	0.125		6.13				
2	31 13C3-PFBA	216.1 > 171.8	6.75e3	8.09e3	0.125	0.928	1.33	1.23	10.4	89.9	89.9
3	32 13C3-PFPeA	266. > 221.8	7.35e3	1.17e4	0.125	0.757	2.31	2.21	7.83	82.8	82.8
4	33 13C3-PFBS	302. > 98.8	1.02e3	1.17e4	0.125	0.091	2.59	2.50	1.08	95.4	95.4
5	34 13C2-PFHxA	315 > 269.8	3.04e3	1.17e4	0.125	0.739	3.08	2.99	3.23	35.0	87.5
6	35 13C4-PFHpA	367.2 > 321.8	6.97e3	1.17e4	0.125	0.684	3.70	3.62	7.43	86.9	86.9
7	36 18O2-PFHxS	403.0 > 102.6	8.55e2	2.31e3	0.125	0.412	3.85	3.78	4.63	89.9	89.9
8	37 13C2-6:2 FTS	429.1 > 408.9	2.40e3	1.13e4	0.125	0.248	4.18	4.09	2.65	85.4	85.4
9	38 13C2-PFOA	414.9 > 369.7	1.05e4	1.13e4	0.125	1.120	4.23	4.15	11.5	82.4	82.4
10	39 13C5-PFNA	468.2 > 422.9	9.67e3	1.25e4	0.125	0.929	4.67	4.59	9.68	83.4	83.4
11	40 13C8-PFOSA	506.1 > 77.7	2.01e3	1.52e4	0.125	0.246	4.72	4.64	1.65	53.6	53.6
12	41 13C8-PFOS	507.0 > 79.9	2.53e3	2.41e3	0.125	1.027	4.76	4.68	13.1	102	102.2
13	42 13C2-PFDA	515.1 > 469.9	9.48e3	1.38e4	0.125	0.946	5.05	4.98	8.59	72.7	72.7
14	43 13C2-8:2 FTS	529.1 > 508.7	2.05e3	1.38e4	0.125	0.171	5.03	4.95	1.86	86.8	86.8
15	44 d3-N-MeFOSAA	573.3 > 419	3.51e3	1.52e4	0.125	0.358	5.20	5.13	2.88	64.4	64.4
16	45 d5-N-EtFOSAA	589.3 > 419	3.99e3	1.52e4	0.125	0.360	5.36	5.28	3.28	73.0	73.0
17	46 13C2-PFUDa	565 > 519.8	1.12e4	1.52e4	0.125	1.045	5.38	5.31	9.24	70.7	70.7
18	47 13C2-PFDoA	615.0 > 569.7	1.08e4	1.52e4	0.125	1.141	5.67	5.60	8.84	62.0	62.0
19	49 13C2-PFTeDA	714.8 > 669.6	8.97e3	1.52e4	0.125	0.934	6.13	6.07	7.37	63.1	63.1
20	54 13C4-PFBA	217. > 171.8	8.09e3	8.09e3	0.125	1.000	1.33	1.23	12.5	100	100.0
21	55 13C5-PFHxA	318 > 272.9	1.17e4	1.17e4	0.125	1.000	3.08	2.99	12.5	100	100.0
22	56 13C3-PFHxS	401.9 > 79.9	2.31e3	2.31e3	0.125	1.000	3.85	3.77	12.5	100	100.0
23	57 13C8-PFOA	421.3 > 376	1.13e4	1.13e4	0.125	1.000	4.23	4.15	12.5	100	100.0
24	58 13C9-PFNA	472.2 > 426.9	1.25e4	1.25e4	0.125	1.000	4.67	4.59	12.5	100	100.0
25	59 13C4-PFOS	503 > 79.9	2.41e3	2.41e3	0.125	1.000	4.76	4.68	12.5	100	100.0
26	60 13C6-PFDA	519.1 > 473.7	1.38e4	1.38e4	0.125	1.000	5.05	4.97	12.5	100	100.0
27	61 13C7-PFUnA	570.1 > 524.8	1.52e4	1.52e4	0.125	1.000	5.38	5.31	12.5	100	100.0
28	62 Total PFHxS	398.9 > 79.6		8.55e2						0.849	
29	63 Total PFOA	413 > 368.7	2.11e2	1.05e4	0.125		4.23		0.000		
30	64 Total PFOS	499 > 79.9	0.00e0	2.53e3	0.125		4.67		0.000		
31	65 Total N-MeFOSAA	570.1 > 419	0.00e0	3.51e3	0.125		5.21		0.000		
32	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.99e3	0.125		5.37		0.000		

AC 10/27/17



Dataset: U:\Q4.PRO\results\171026M1\171026M1-22.qld

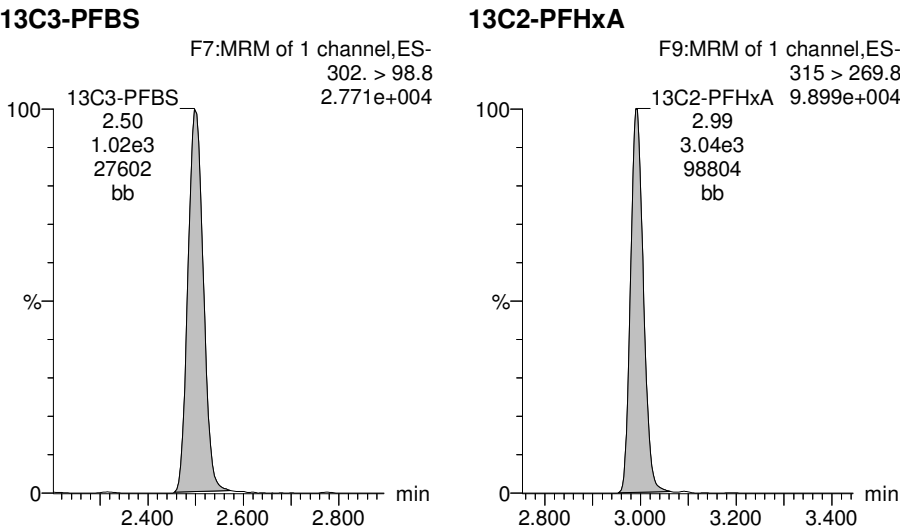
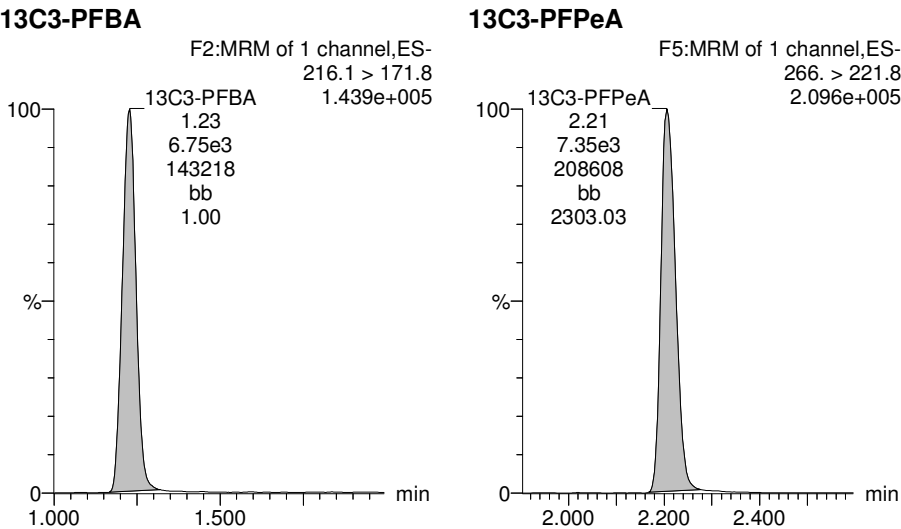
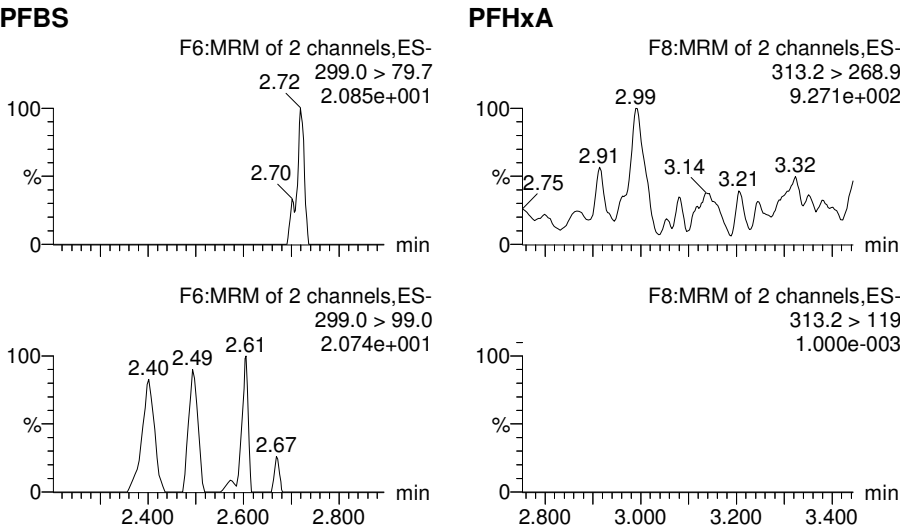
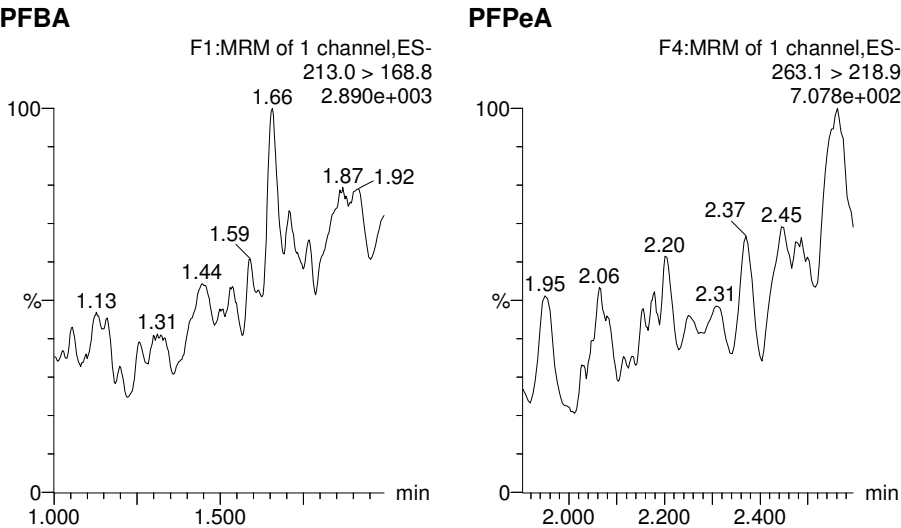
Last Altered: Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed: Friday, October 27, 2017 13:09:15 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 11:45:01

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-BLK1 Method Blank 0.125, Description: Method Blank



Dataset:

U:\Q4.PRO\results\171026M1\171026M1-22.qld

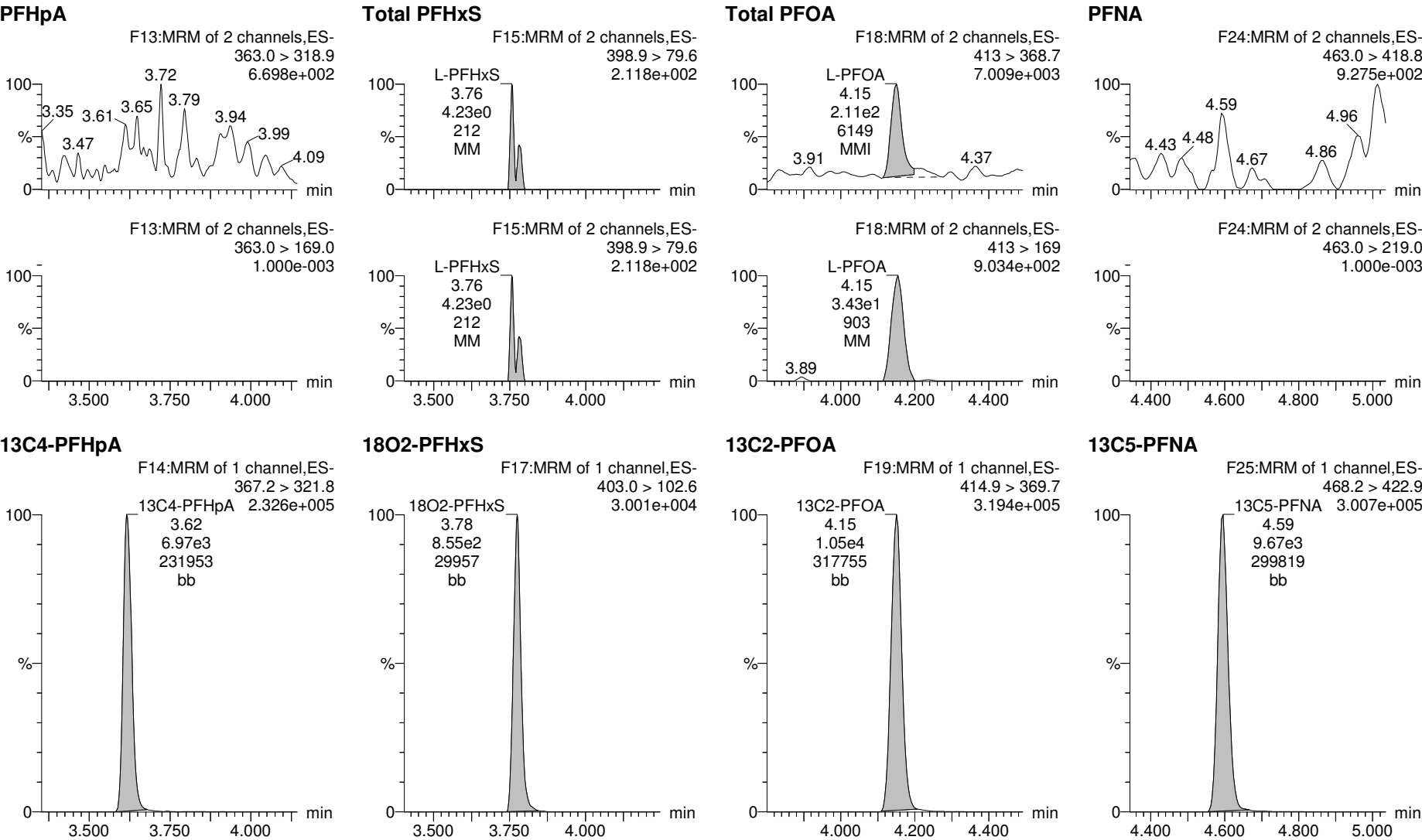
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Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed:

Friday, October 27, 2017 13:09:15 Pacific Daylight Time

Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-BLK1 Method Blank 0.125, Description: Method Blank



Dataset:

U:\Q4.PRO\results\171026M1\171026M1-22.qld

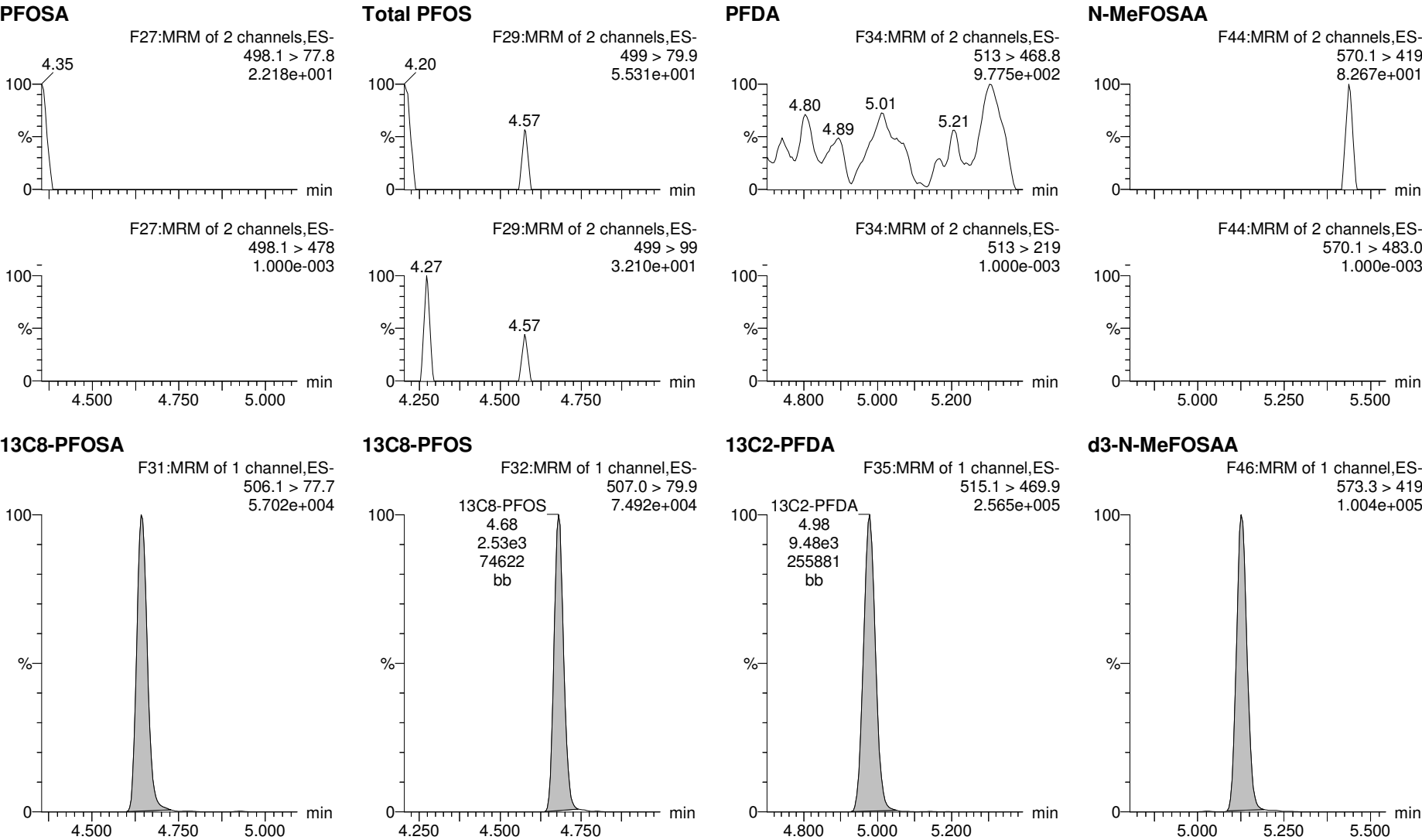
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Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed:

Friday, October 27, 2017 13:09:15 Pacific Daylight Time

**Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-BLK1 Method Blank 0.125, Description: Method Blank**

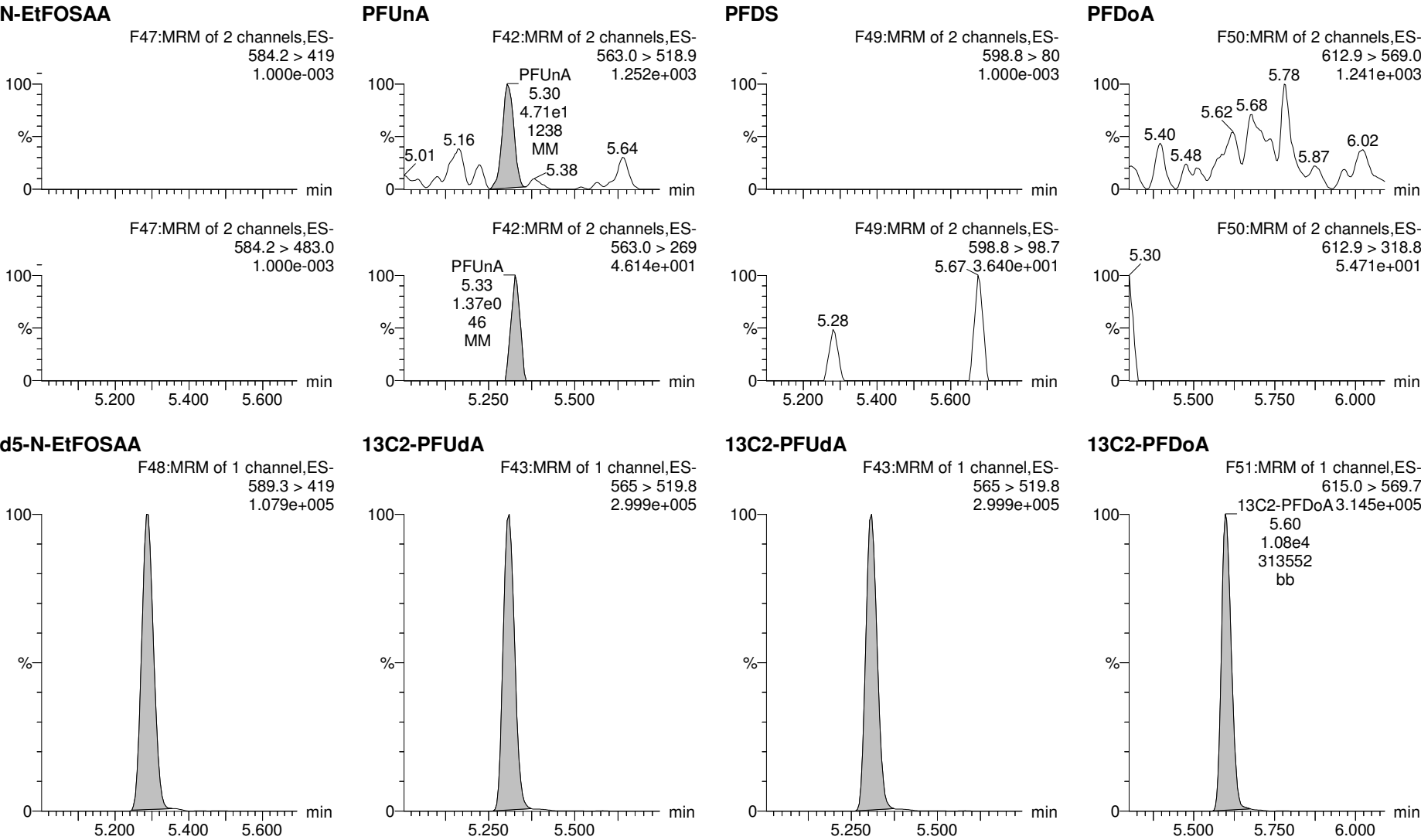


Dataset: U:\Q4.PRO\results\171026M1\171026M1-22.qld

Last Altered: Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed: Friday, October 27, 2017 13:09:15 Pacific Daylight Time

Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-BLK1 Method Blank 0.125, Description: Method Blank



Dataset:

U:\Q4.PRO\results\171026M1\171026M1-22.qld

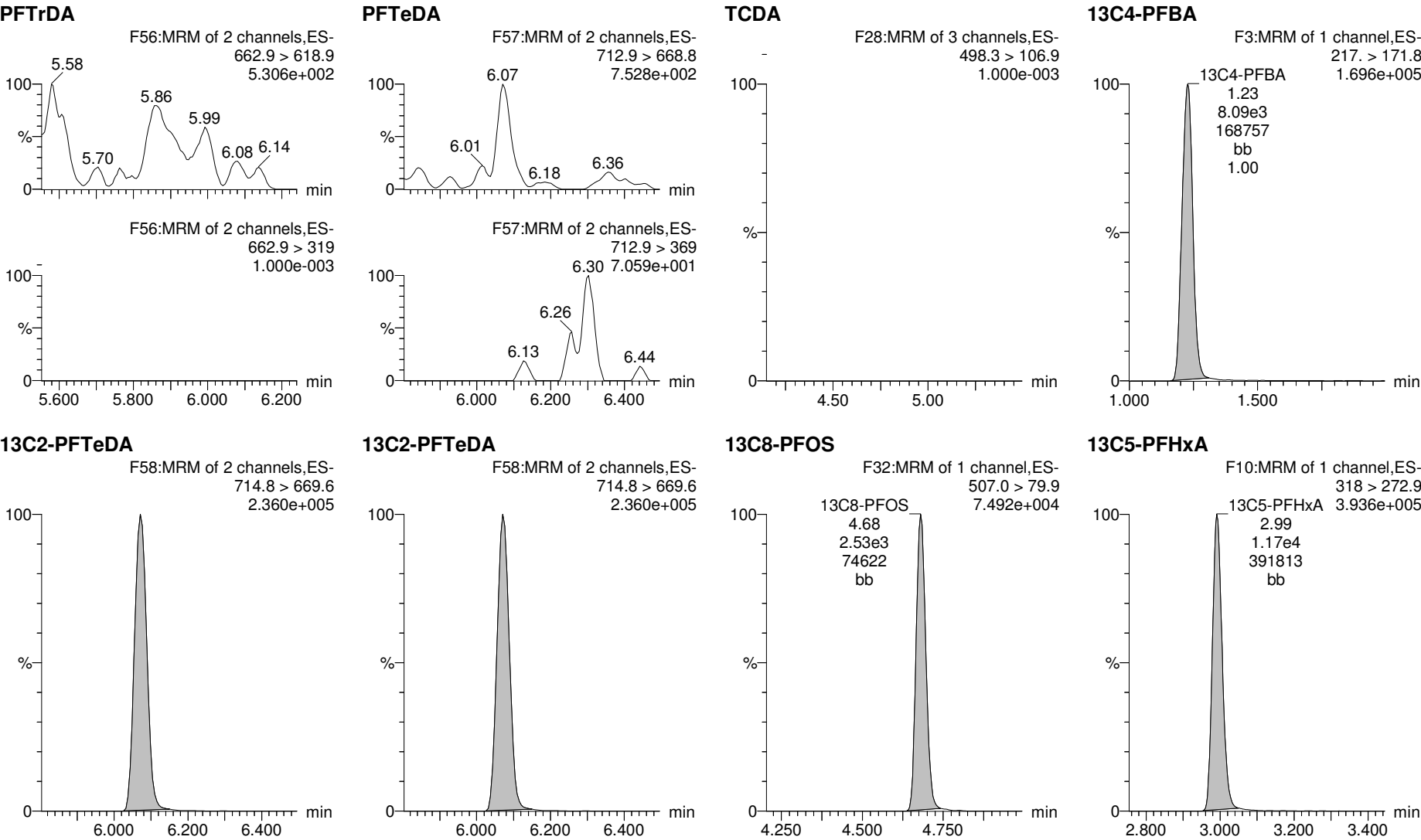
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Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed:

Friday, October 27, 2017 13:09:15 Pacific Daylight Time

Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-BLK1 Method Blank 0.125, Description: Method Blank



Dataset:

U:\Q4.PRO\results\171026M1\171026M1-22.qld

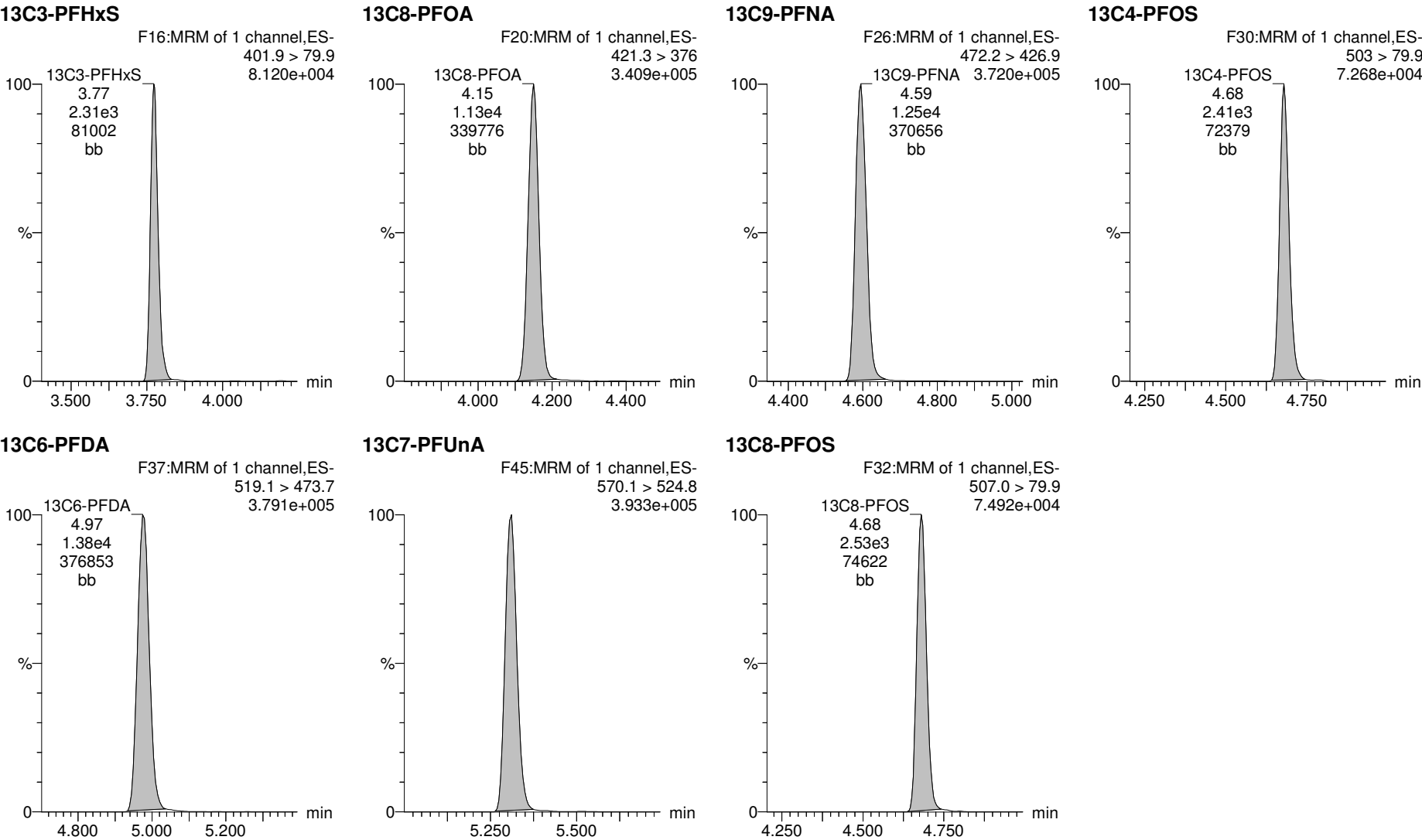
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Friday, October 27, 2017 13:08:18 Pacific Daylight Time

Printed:

Friday, October 27, 2017 13:09:15 Pacific Daylight Time

**Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-BLK1 Method Blank 0.125, Description: Method Blank**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-16.qld

Last Altered: Friday, October 27, 2017 12:58:27 Pacific Daylight Time

Printed: Friday, October 27, 2017 13:05:00 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 11:45:01

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_16, Date: 26-Oct-2017, Time: 12:03:33, ID: B7J0092-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	6.57e3	7.51e3	0.125		1.32	1.23	10.9	69.9	87.3
2	2 PFPeA	263.1 > 218.9	6.52e3	8.00e3	0.125		2.31	2.21	10.2	70.7	88.3
3	3 PFBS	299.0 > 79.7	1.72e3	9.89e2	0.125		2.59	2.51	21.7	71.4	89.2
4	4 PFHxA	313.2 > 268.9	1.01e4	3.27e3	0.125		3.08	3.00	15.5	74.1	92.7
5	5 PFHpA	363.0 > 318.9	8.27e3	7.73e3	0.125		3.70	3.62	13.4	70.8	88.5
6	6 L-PFHxS	398.9 > 79.6	1.46e3	8.12e2	0.125		3.86	3.78	22.5	74.3	92.9
7	9 L-PFOA	413 > 368.7	8.48e3	1.09e4	0.125		4.23	4.15	9.69	66.7	83.4
8	12 PFNA	463.0 > 418.8	9.89e3	9.79e3	0.125		4.67	4.59	12.6	69.6	87.1
9	13 PFOSA	498.1 > 77.8	1.50e3	2.15e3	0.125		4.72	4.64	8.70	59.6	74.6
10	14 L-PFOS	499 > 79.9	1.95e3	2.79e3	0.125		4.76	4.68	8.73	60.6	75.7
11	16 PFDA	513 > 468.8	1.03e4	9.27e3	0.125		5.05	4.98	13.8	81.8	102.2
12	18 N-MeFOSAA	570.1 > 419	3.52e3	3.11e3	0.125		5.21	5.13	14.2	71.5	89.4
13	19 N-EtFOSAA	584.2 > 419	2.66e3	3.36e3	0.125		5.37	5.29	9.87	62.2	77.8
14	20 PFUnA	563.0 > 518.9	8.48e3	1.05e4	0.125		5.38	5.31	10.1	70.7	88.3
15	21 PFDS	598.8 > 80	2.05e3	1.05e4	0.125		5.43	5.36	2.44	99.7	124.6
16	22 PFDoA	612.9 > 569.0	1.12e4	1.15e4	0.125		5.67	5.60	12.2	76.6	95.7
17	24 PFTrDA	662.9 > 618.9	1.41e4	1.15e4	0.125		5.92	5.86	15.4	91.7	114.6

Dataset: U:\Q4.PRO\results\171026M1\171026M1-16.qld

Last Altered: Friday, October 27, 2017 12:58:27 Pacific Daylight Time

Printed: Friday, October 27, 2017 13:12:38 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 11:45:01

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_16, Date: 26-Oct-2017, Time: 12:03:33, ID: B7J0092-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	25 PFTeDA	712.9 > 668.8	1.25e4	1.30e4	0.125		6.13	6.07	12.1	58.2	72.8
2	31 13C3-PFBA	216.1 > 171.8	7.51e3	9.00e3	0.125	0.928	1.33	1.23	10.4	89.9	89.9
3	32 13C3-PFPeA	266. > 221.8	8.00e3	1.33e4	0.125	0.757	2.31	2.21	7.50	79.3	79.3
4	33 13C3-PFBS	302. > 98.8	9.89e2	1.33e4	0.125	0.091	2.59	2.50	0.928	81.8	81.8
5	34 13C2-PFHxA	315 > 269.8	3.27e3	1.33e4	0.125	0.739	3.08	3.00	3.07	33.2	83.1
6	35 13C4-PFHpA	367.2 > 321.8	7.73e3	1.33e4	0.125	0.684	3.70	3.62	7.25	84.8	84.8
7	36 18O2-PFHxS	403.0 > 102.6	8.12e2	2.39e3	0.125	0.412	3.85	3.78	4.25	82.4	82.4
8	37 13C2-6:2 FTS	429.1 > 408.9	2.57e3	1.18e4	0.125	0.248	4.18	4.10	2.71	87.6	87.6
9	38 13C2-PFOA	414.9 > 369.7	1.09e4	1.18e4	0.125	1.120	4.23	4.15	11.6	82.5	82.5
10	39 13C5-PFNA	468.2 > 422.9	9.79e3	1.29e4	0.125	0.929	4.67	4.59	9.49	81.7	81.7
11	40 13C8-PFOSA	506.1 > 77.7	2.15e3	1.51e4	0.125	0.246	4.72	4.65	1.78	57.8	57.8
12	41 13C8-PFOS	507.0 > 79.9	2.79e3	2.78e3	0.125	1.027	4.76	4.68	12.5	97.7	97.7
13	42 13C2-PFDA	515.1 > 469.9	9.27e3	1.43e4	0.125	0.946	5.05	4.98	8.12	68.7	68.7
14	43 13C2-8:2 FTS	529.1 > 508.7	2.36e3	1.43e4	0.125	0.171	5.03	4.95	2.07	96.6	96.6
15	44 d3-N-MeFOSAA	573.3 > 419	3.11e3	1.51e4	0.125	0.358	5.20	5.13	2.57	57.6	57.6
16	45 d5-N-EtFOSAA	589.3 > 419	3.36e3	1.51e4	0.125	0.360	5.36	5.29	2.78	61.9	61.9
17	46 13C2-PFUDa	565 > 519.8	1.05e4	1.51e4	0.125	1.045	5.38	5.31	8.68	66.4	66.4
18	47 13C2-PFDoA	615.0 > 569.7	1.15e4	1.51e4	0.125	1.141	5.67	5.60	9.50	66.6	66.6
19	49 13C2-PFTeDA	714.8 > 669.6	1.30e4	1.51e4	0.125	0.934	6.13	6.07	10.7	92.0	92.0
20	54 13C4-PFBA	217. > 171.8	9.00e3	9.00e3	0.125	1.000	1.33	1.23	12.5	100	100.0
21	55 13C5-PFHxA	318 > 272.9	1.33e4	1.33e4	0.125	1.000	3.08	2.99	12.5	100	100.0
22	56 13C3-PFHxS	401.9 > 79.9	2.39e3	2.39e3	0.125	1.000	3.85	3.78	12.5	100	100.0
23	57 13C8-PFOA	421.3 > 376	1.18e4	1.18e4	0.125	1.000	4.23	4.15	12.5	100	100.0
24	58 13C9-PFNA	472.2 > 426.9	1.29e4	1.29e4	0.125	1.000	4.67	4.59	12.5	100	100.0
25	59 13C4-PFOS	503 > 79.9	2.78e3	2.78e3	0.125	1.000	4.76	4.68	12.5	100	100.0
26	60 13C6-PFDA	519.1 > 473.7	1.43e4	1.43e4	0.125	1.000	5.05	4.98	12.5	100	100.0
27	61 13C7-PFUnA	570.1 > 524.8	1.51e4	1.51e4	0.125	1.000	5.38	5.31	12.5	100	100.0
28	62 Total PFHxS	398.9 > 79.6		8.12e2							
29	63 Total PFOA	413 > 368.7	8.48e3	1.09e4	0.125		4.23		9.69	66.7	
30	64 Total PFOS	499 > 79.9	1.95e3	2.79e3	0.125		4.67		8.73	60.6	
31	65 Total N-MeFOSAA	570.1 > 419	3.52e3	3.11e3	0.125		5.21		14.2	71.5	
32	66 Total N-EtFOSAA	584.2 > 419	2.66e3	3.36e3	0.125		5.37		9.87	62.2	

AC 10/27/17



Dataset: U:\Q4.PRO\results\171026M1\171026M1-16.qld

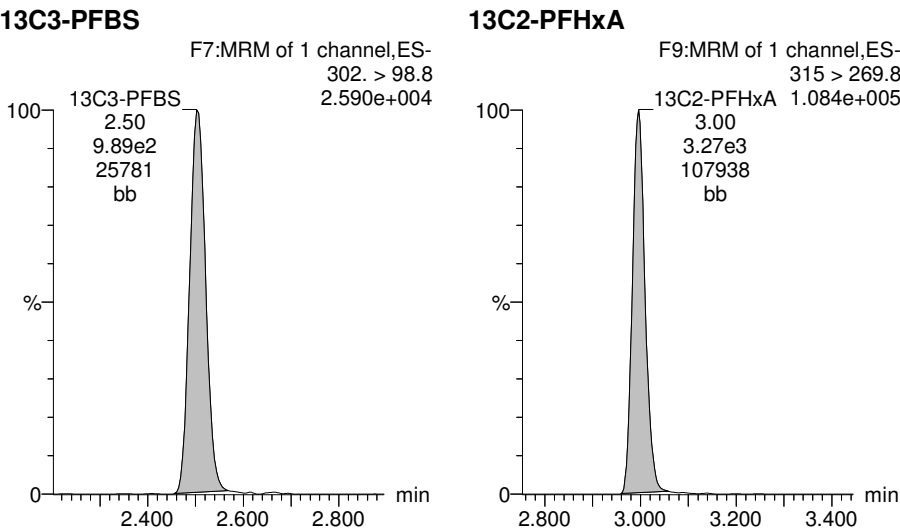
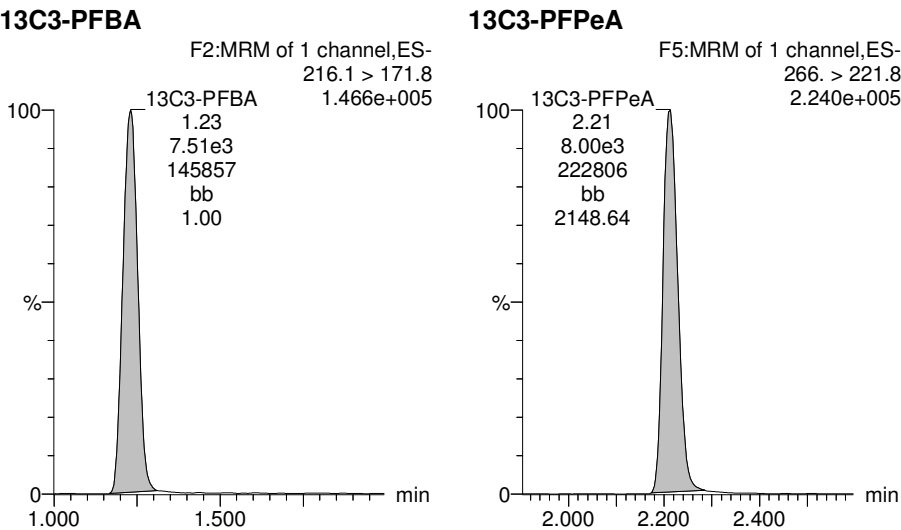
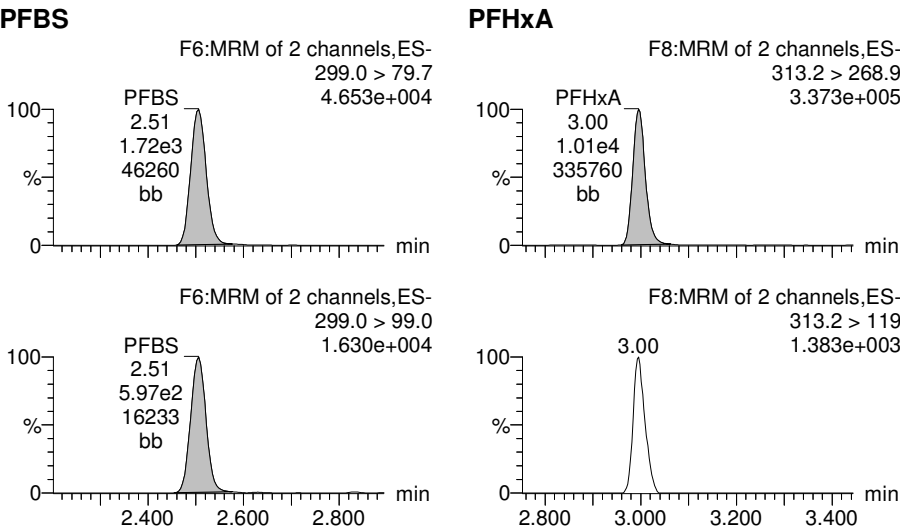
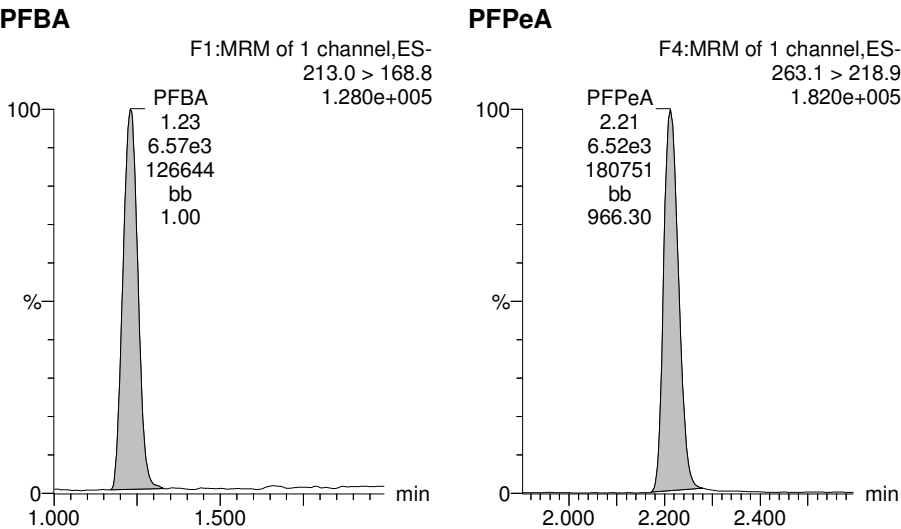
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Printed: Friday, October 27, 2017 13:05:00 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 11:45:01

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_16, Date: 26-Oct-2017, Time: 12:03:33, ID: B7J0092-BS1 OPR 0.125, Description: OPR

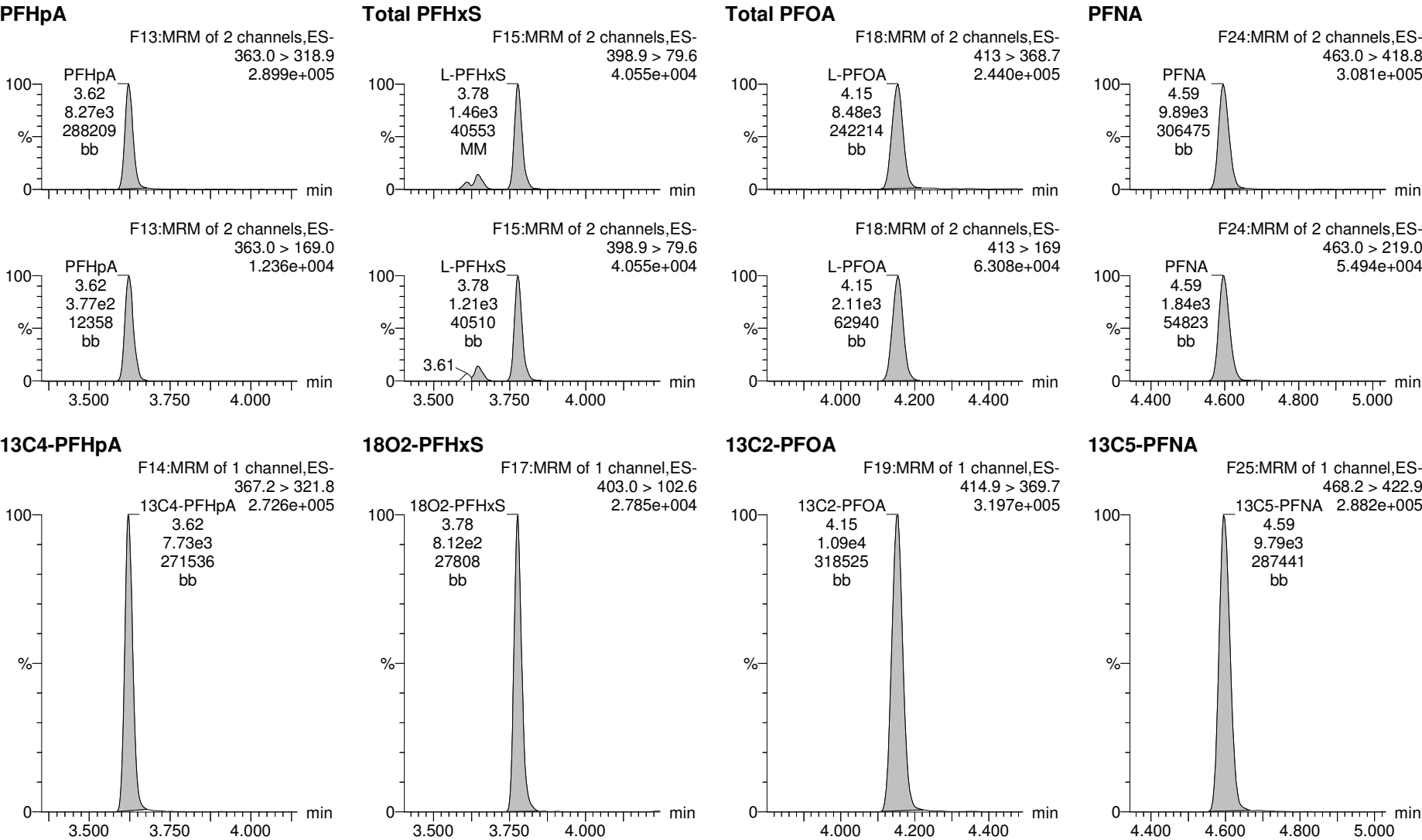


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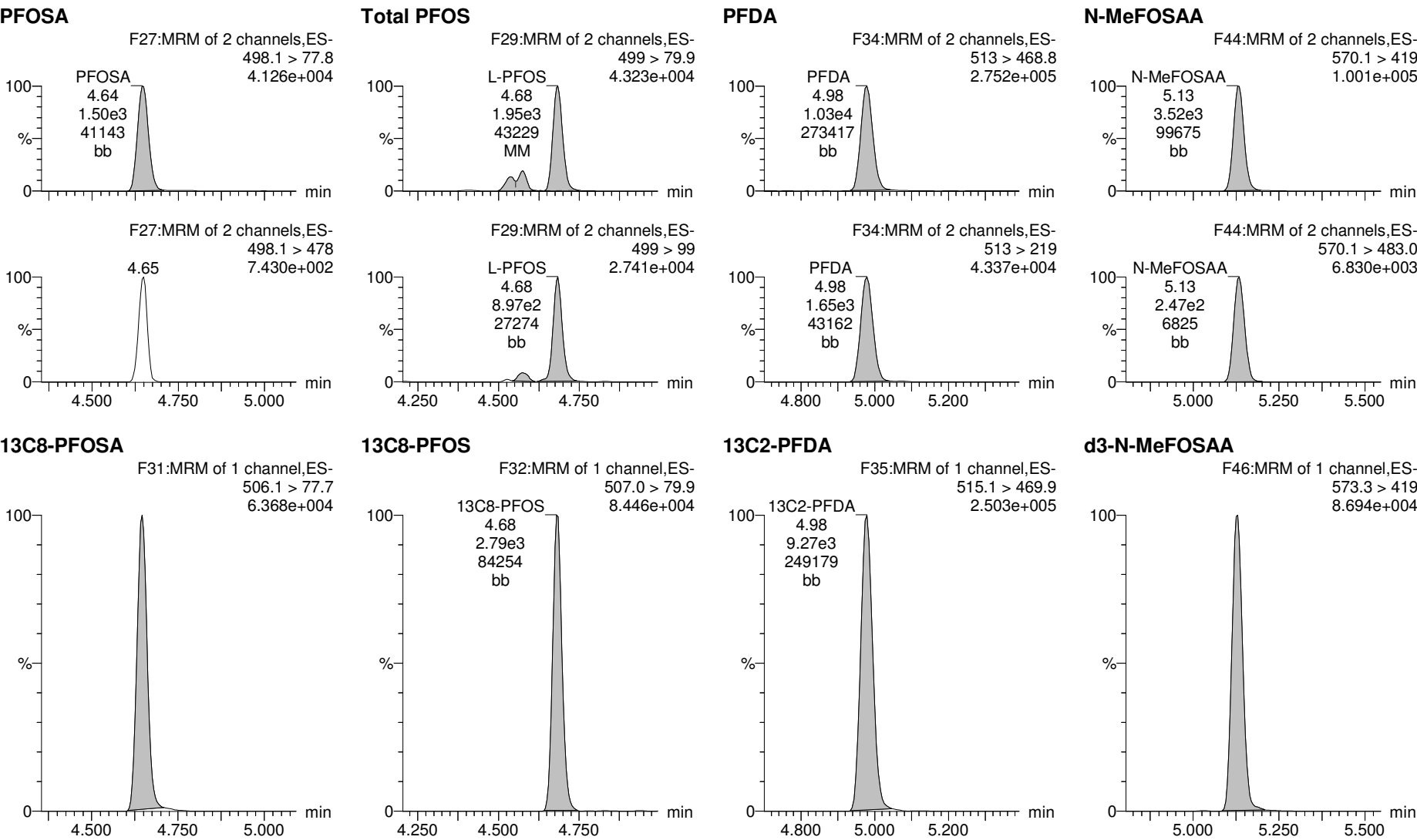
Last Altered: Friday, October 27, 2017 12:58:27 Pacific Daylight Time

Printed: Friday, October 27, 2017 13:05:00 Pacific Daylight Time

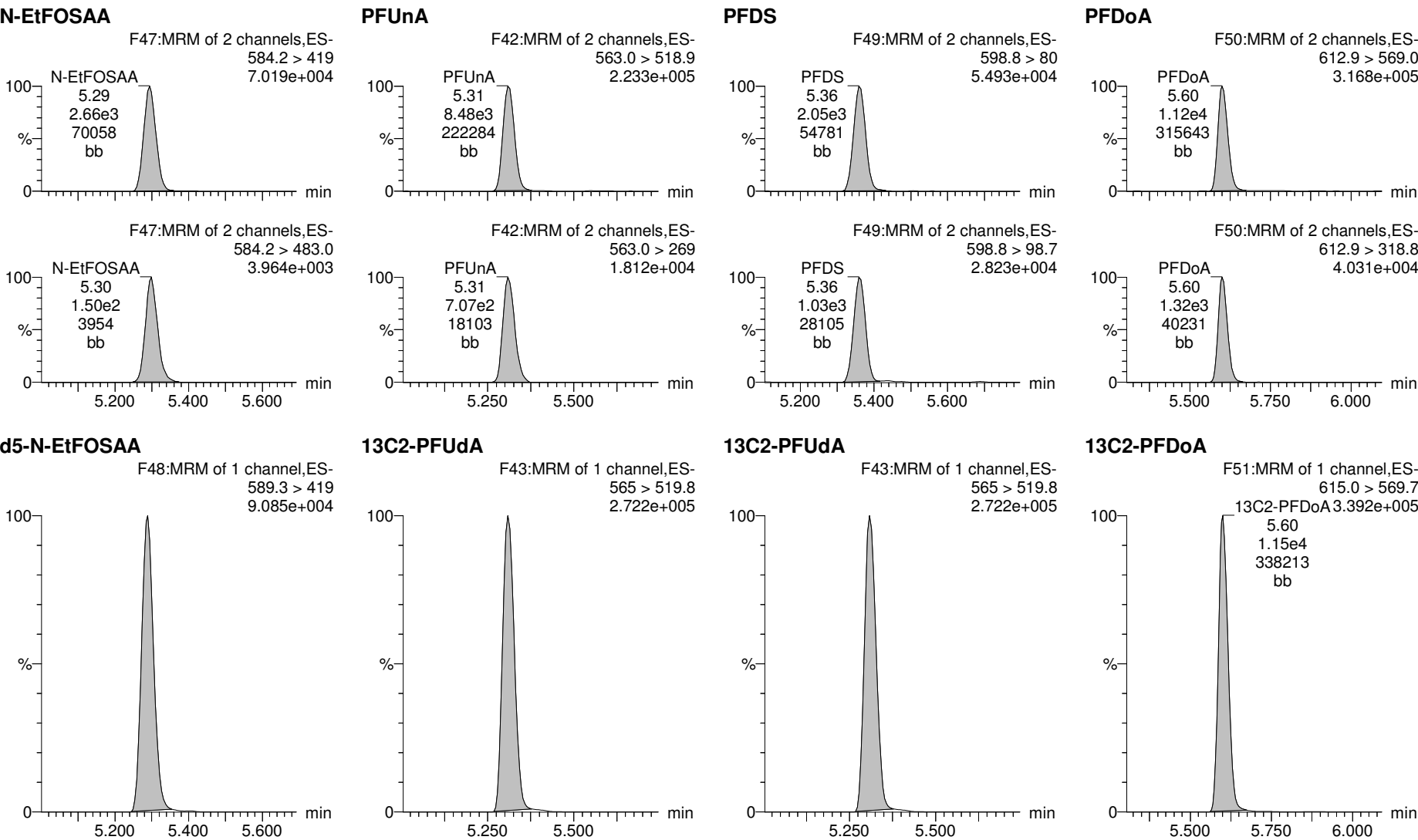
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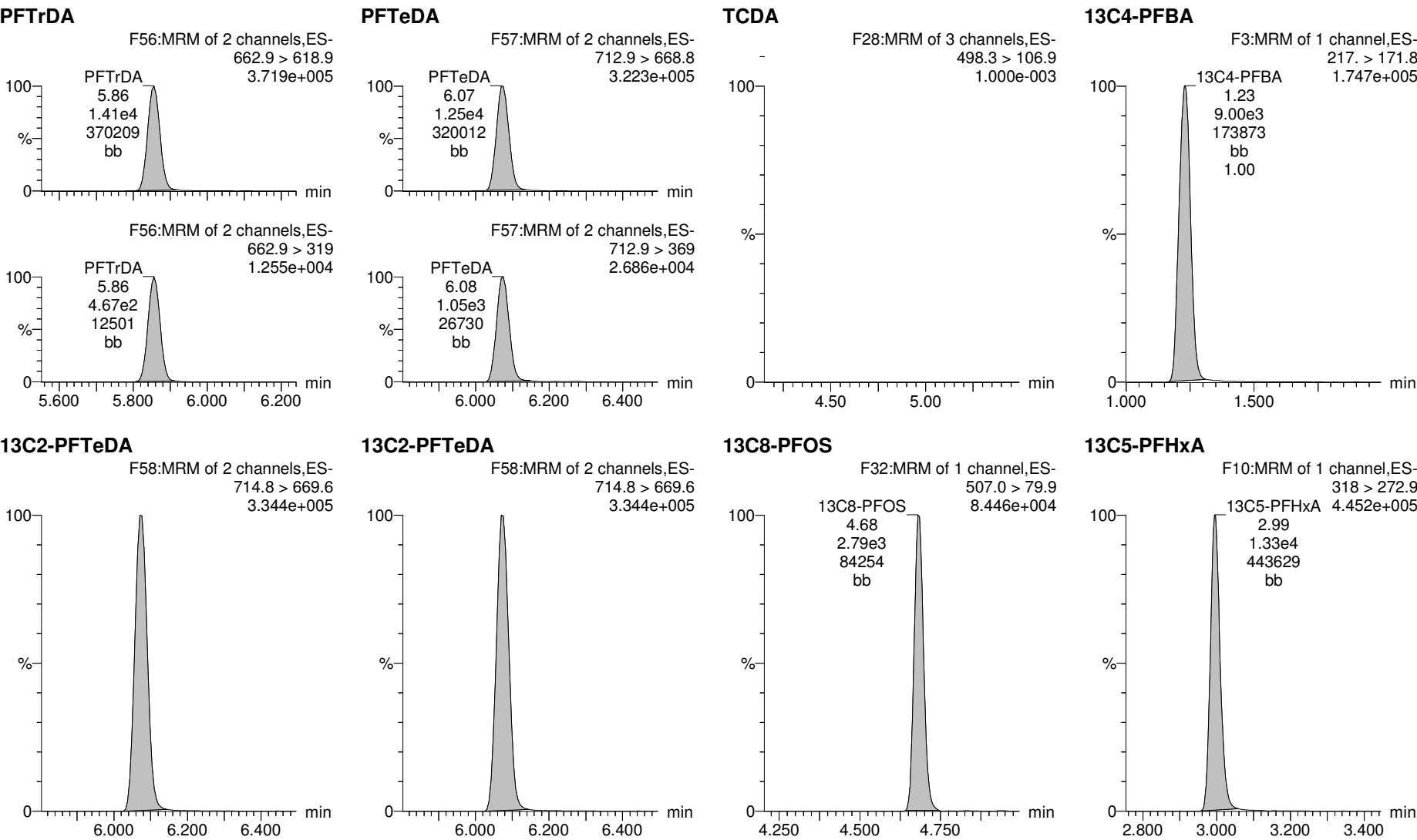
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Name: 171026M1\_16, Date: 26-Oct-2017, Time: 12:03:33, ID: B7J0092-BS1 OPR 0.125, Description: OPR



Name: 171026M1\_16, Date: 26-Oct-2017, Time: 12:03:33, ID: B7J0092-BS1 OPR 0.125, Description: OPR



Dataset:

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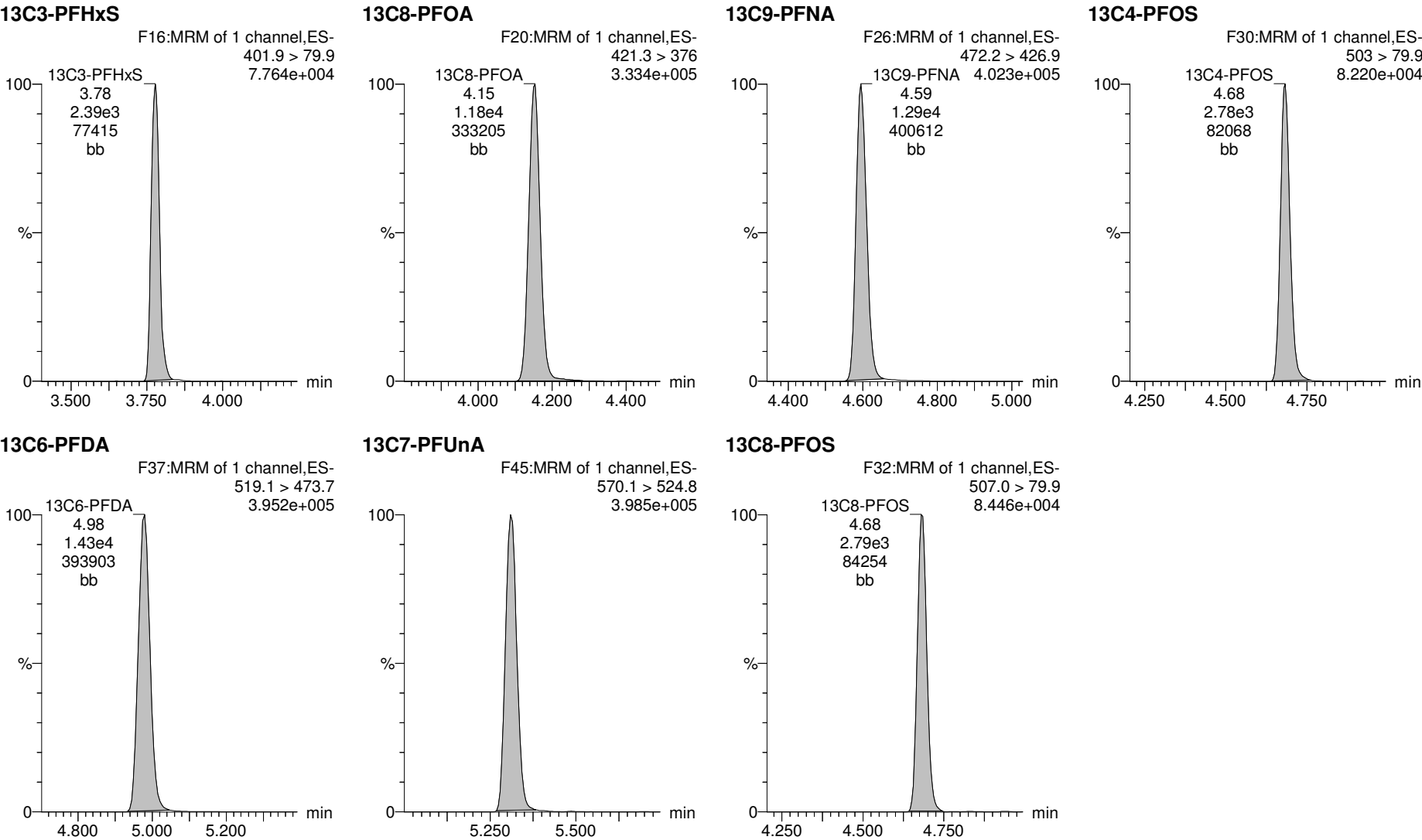
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Friday, October 27, 2017 12:58:27 Pacific Daylight Time

Printed:

Friday, October 27, 2017 13:05:00 Pacific Daylight Time

Name: 171026M1\_16, Date: 26-Oct-2017, Time: 12:03:33, ID: B7J0092-BS1 OPR 0.125, Description: OPR



Dataset: U:\Q4.PRO\results\171107M2\171107M2-4.qld

Last Altered: Wednesday, November 08, 2017 10:31:11 Pacific Standard Time

Printed: Wednesday, November 08, 2017 16:13:39 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 08:42:13

Name: 171107M2\_4, Date: 07-Nov-2017, Time: 22:17:55, ID: 1701439-01 FRB05\_20171005 0.125, Description: FRB05\_20171005

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8		5.56e3	0.1201		1.64				
2	2 PFPeA	263.1 > 218.9		6.35e3	0.1201		2.63				
3	3 PFBS	299.0 > 79.7		7.60e2	0.1201		2.89				
4	4 PFHxA	313.2 > 268.9		2.44e3	0.1201		3.39				
5	5 PFHpA	363.0 > 318.9		5.68e3	0.1201		4.02				
6	6 L-PFHxS	398.9 > 79.6	1.24e0	5.56e2	0.1201		4.16	3.95	0.0278		
7	9 L-PFOA	413 > 368.7		7.95e3	0.1201		4.53				
8	12 PFNA	463.0 > 418.8		6.45e3	0.1201		4.96				
9	13 PFOSA	498.1 > 77.8		1.66e3	0.1201		5.01				
10	14 L-PFOS	499 > 79.9		1.67e3	0.1201		5.03				
11	16 PFDA	513 > 468.8		5.46e3	0.1201		5.33				
12	18 N-MeFOSAA	570.1 > 419		2.46e3	0.1201		5.48				
13	19 N-EtFOSAA	584.2 > 419		2.68e3	0.1201		5.63				
14	20 PFUdA	563.0 > 518.9		6.67e3	0.1201		5.65				
15	21 PFDS	598.8 > 80		6.67e3	0.1201		5.70				
16	22 PFDoA	612.9 > 569.0		9.23e3	0.1201		5.92				
17	24 PFTTrDA	662.9 > 618.9		9.23e3	0.1201		6.16				

Dataset: U:\Q4.PRO\results\171107M2\171107M2-4.qld

Last Altered: Wednesday, November 08, 2017 10:31:11 Pacific Standard Time

Printed: Wednesday, November 08, 2017 16:13:52 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 08:42:13

Name: 171107M2\_4, Date: 07-Nov-2017, Time: 22:17:55, ID: 1701439-01 FRB05\_20171005 0.125, Description: FRB05\_20171005

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	25 PFTeDA	712.9 > 668.8		1.06e4	0.1201		6.36				
2	31 13C3-PFBA	216.1 > 171.8	5.56e3	6.93e3	0.1201	0.949	1.64	1.43	10.0	87.985	84.5
3	32 13C3-PFPeA	266. > 221.8	6.35e3	9.74e3	0.1201	0.781	2.63	2.41	8.16	86.959	83.5
4	33 13C3-PFBS	302. > 98.8	7.60e2	9.74e3	0.1201	0.089	2.89	2.69	0.975	91.705	88.1
5	34 13C2-PFHxA	315 > 269.8	2.44e3	9.74e3	0.1201	0.755	3.39	3.18	3.13	34.482	82.8
6	35 13C4-PFHpA	367.2 > 321.8	5.68e3	9.74e3	0.1201	0.711	4.02	3.81	7.29	85.435	82.1
7	36 18O2-PFHxS	403.0 > 102.6	5.56e2	1.64e3	0.1201	0.423	4.16	3.96	4.24	83.500	80.2
8	38 13C2-PFOA	414.9 > 369.7	7.95e3	7.77e3	0.1201	1.310	4.53	4.33	12.8	81.393	78.2
9	39 13C5-PFNA	468.2 > 422.9	6.45e3	8.38e3	0.1201	0.979	4.96	4.76	9.63	81.872	78.6
10	40 13C8-PFOSA	506.1 > 77.7	1.66e3	9.71e3	0.1201	0.207	5.01	4.82	2.14	86.222	82.8
11	41 13C8-PFOS	507.0 > 79.9	1.67e3	1.58e3	0.1201	1.072	5.03	4.85	13.2	102.788	98.7
12	42 13C2-PFDA	515.1 > 469.9	5.46e3	9.41e3	0.1201	1.014	5.33	5.14	7.26	59.607	57.3
13	44 d3-N-MeFOSAA	573.3 > 419	2.46e3	9.71e3	0.1201	0.368	5.48	5.29	3.16	71.609	68.8
14	45 d5-N-EtFOSAA	589.3 > 419	2.68e3	9.71e3	0.1201	0.389	5.63	5.44	3.45	73.908	71.0
15	46 13C2-PFUdA	565 > 519.8	6.67e3	9.71e3	0.1201	0.983	5.65	5.46	8.59	72.764	69.9
16	47 13C2-PFDoA	615.0 > 569.7	9.23e3	9.71e3	0.1201	0.997	5.92	5.74	11.9	99.319	95.4
17	49 13C2-PFTeDA	714.8 > 669.6	1.06e4	9.71e3	0.1201	1.039	6.36	6.20	13.7	109.750	105.4



Dataset: U:\Q4.PRO\results\171107M2\171107M2-4.qld

Last Altered: Wednesday, November 08, 2017 10:31:11 Pacific Standard Time

Printed: Wednesday, November 08, 2017 16:14:07 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 08:42:13

Name: 171107M2\_4, Date: 07-Nov-2017, Time: 22:17:55, ID: 1701439-01 FRB05\_20171005 0.125, Description: FRB05\_20171005

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	54 13C4-PFBA	217. > 171.8	6.93e3	6.93e3	0.1201	1.000	1.64	1.43	12.5	104.115	100.0
2	55 13C5-PFHxA	318 > 272.9	9.74e3	9.74e3	0.1201	1.000	3.39	3.18	12.5	104.115	100.0
3	56 13C3-PFHxS	401.9 > 79.9	1.64e3	1.64e3	0.1201	1.000	4.16	3.95	12.5	104.115	100.0
4	57 13C8-PFOA	421.3 > 376	7.77e3	7.77e3	0.1201	1.000	4.53	4.33	12.5	104.115	100.0
5	58 13C9-PFNA	472.2 > 426.9	8.38e3	8.38e3	0.1201	1.000	4.96	4.76	12.5	104.115	100.0
6	59 13C4-PFOS	503 > 79.9	1.58e3	1.58e3	0.1201	1.000	5.03	4.85	12.5	104.115	100.0
7	60 13C6-PFDA	519.1 > 473.7	9.41e3	9.41e3	0.1201	1.000	5.33	5.14	12.5	104.115	100.0
8	61 13C7-PFUdA	570.1 > 524.8	9.71e3	9.71e3	0.1201	1.000	5.65	5.46	12.5	104.115	100.0
9	62 Total PFHxS	398.9 > 79.6	1.24e0	5.56e2	0.1201		4.16		0.000		
10	63 Total PFOA	413 > 368.7	0.00e0	7.95e3	0.1201		4.53		0.000		
11	64 Total PFOS	499 > 79.9	0.00e0	1.67e3	0.1201		5.03		0.000		
12	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.46e3	0.1201		5.48		0.000		
13	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.68e3	0.1201		5.63		0.000		
14	67 TCDA	498.3>106.9			0.1201		4.76				

Dataset: U:\Q4.PRO\results\171107M2\171107M2-4.qld

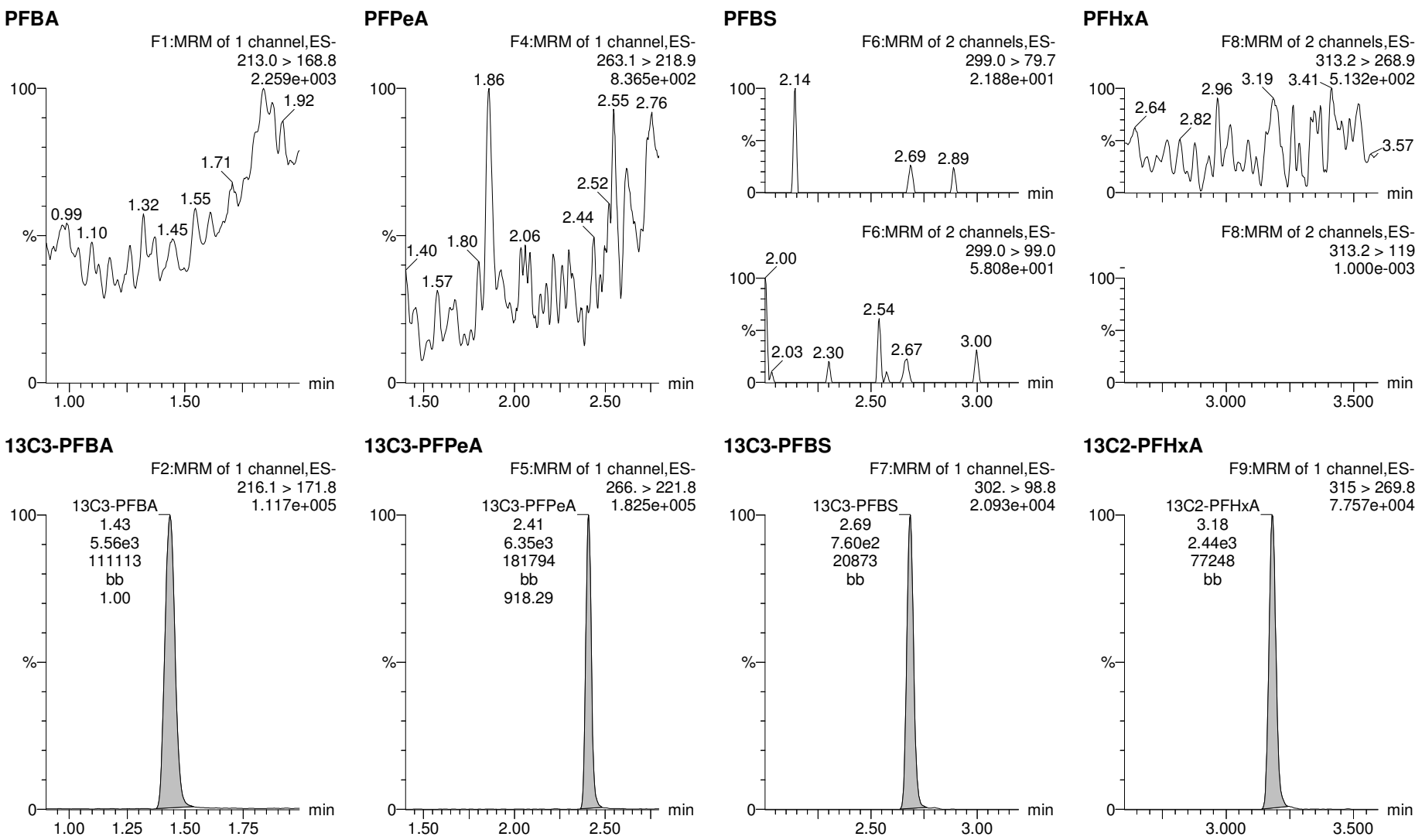
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Printed: Wednesday, November 08, 2017 16:14:07 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 08:42:13

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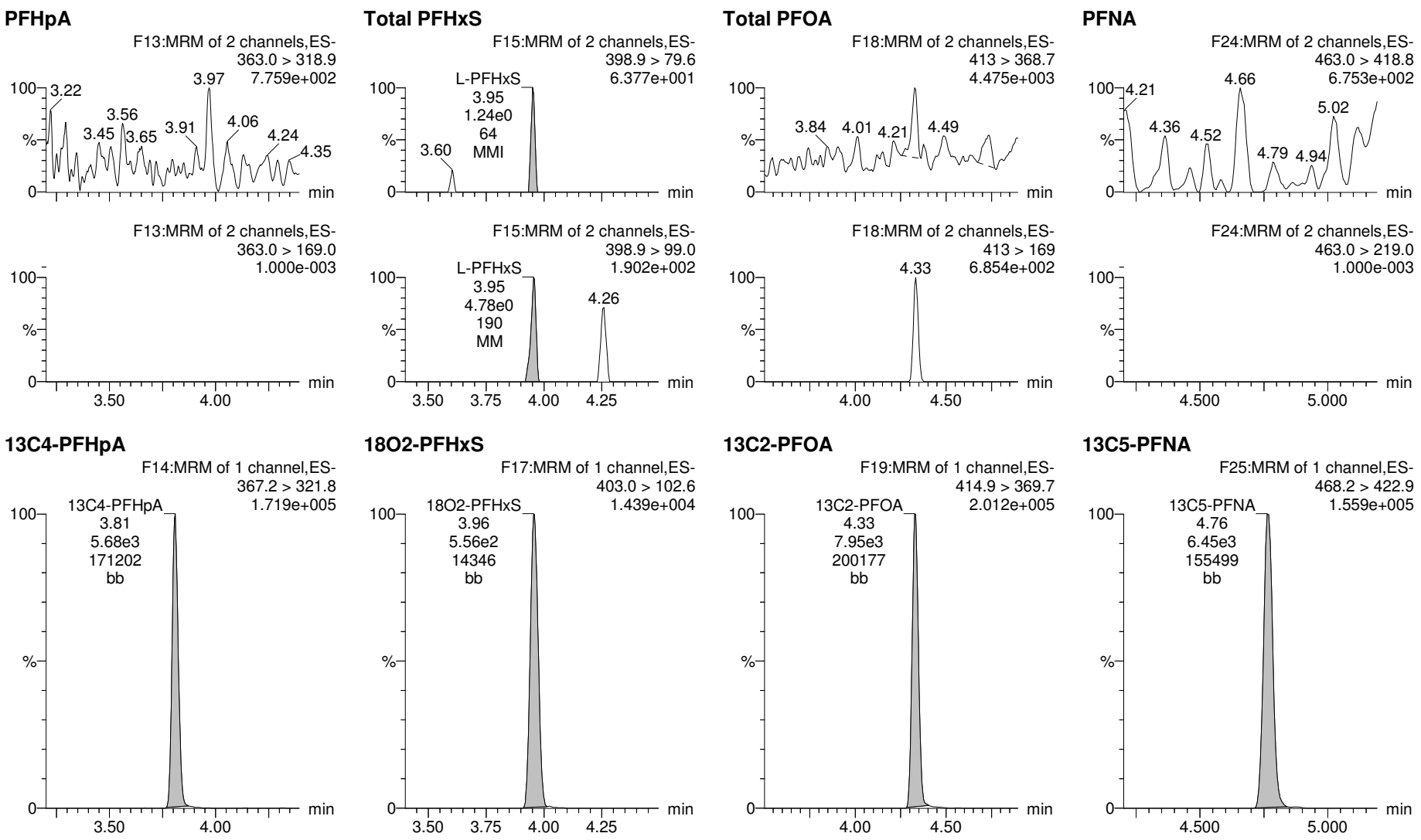


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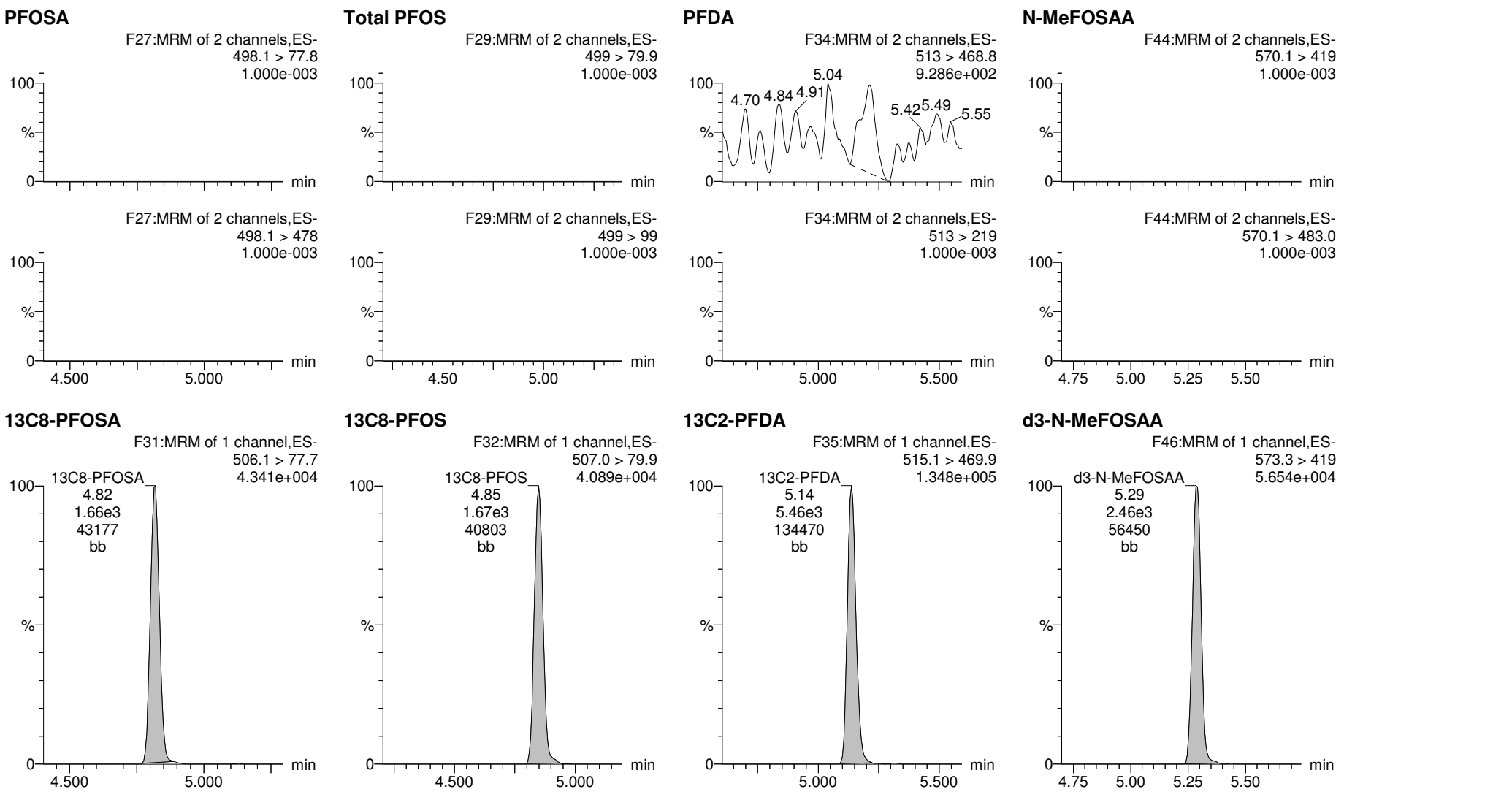
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Printed: Wednesday, November 08, 2017 16:14:07 Pacific Standard Time

Rev'd: MM 11/9/17

Name: 171107M2\_4, Date: 07-Nov-2017, Time: 22:17:55, ID: 1701439-01 FRB05\_20171005 0.125, Description: FRB05\_20171005

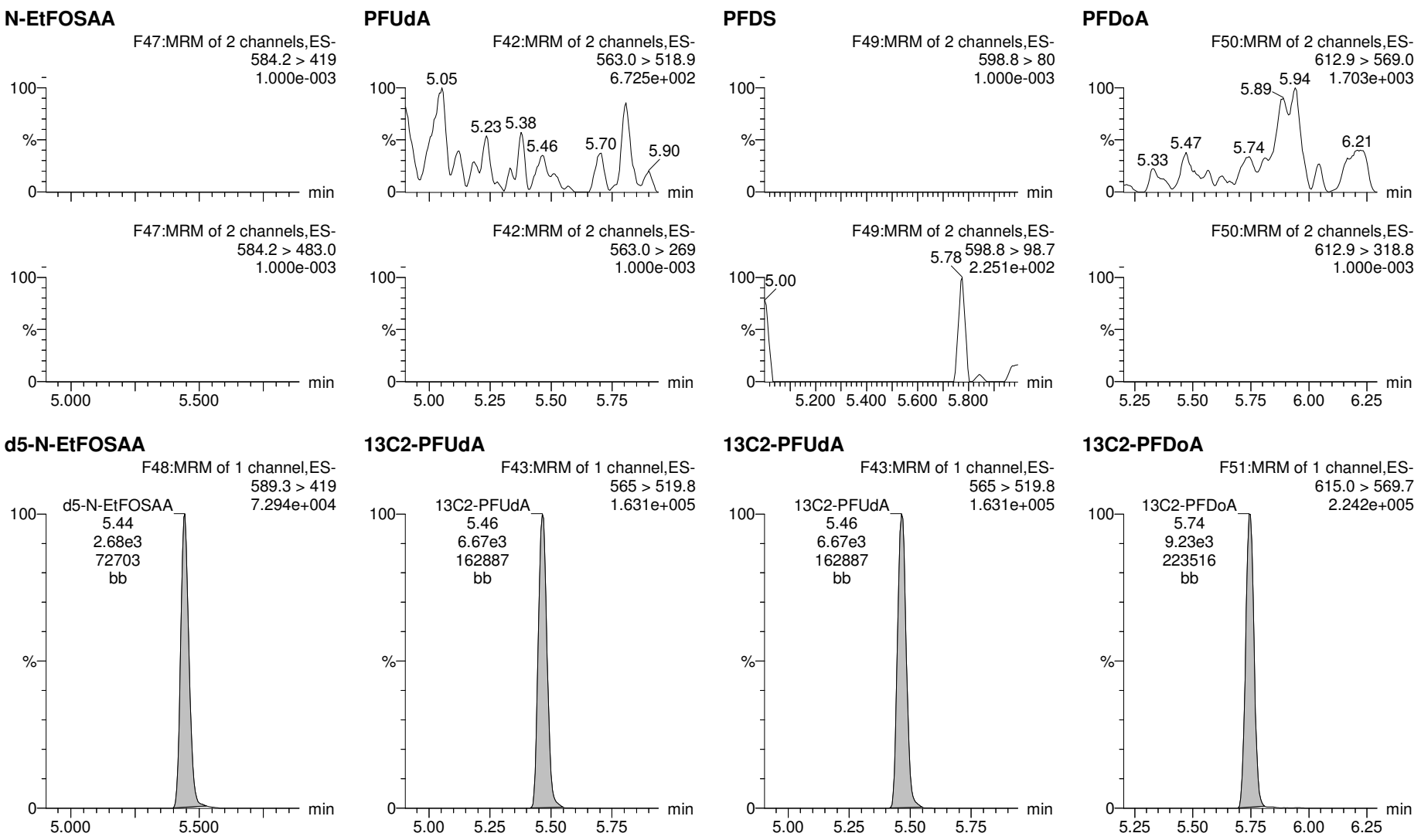


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Last Altered: Wednesday, November 08, 2017 10:31:11 Pacific Standard Time

Printed: Wednesday, November 08, 2017 16:14:07 Pacific Standard Time

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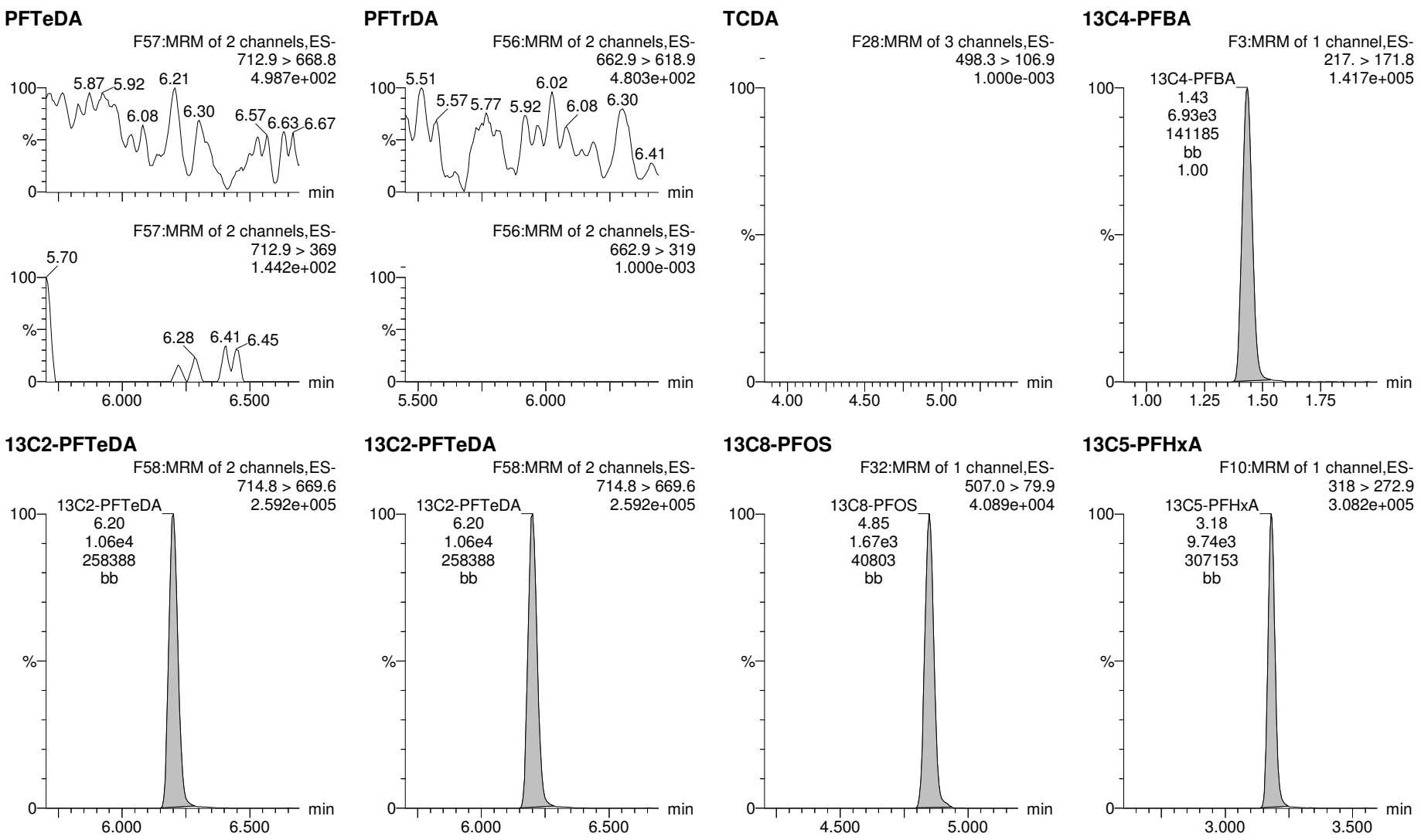
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Printed: Wednesday, November 08, 2017 16:14:07 Pacific Standard Time

Rev'd: MM 11/9/17

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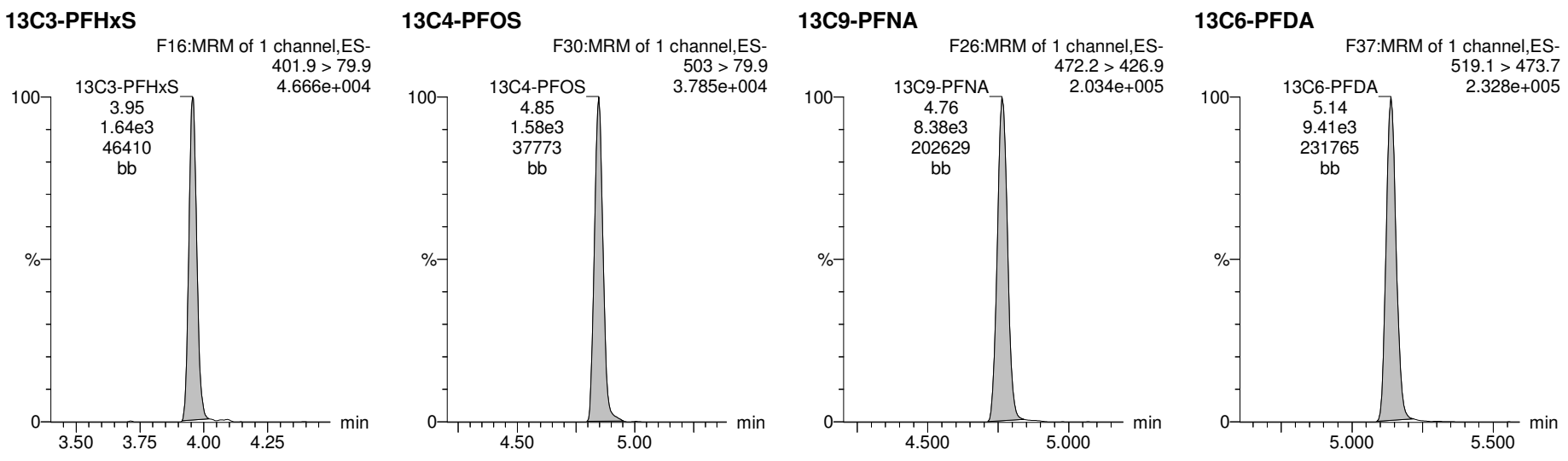


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Last Altered: Wednesday, November 08, 2017 10:31:11 Pacific Standard Time

Printed: Wednesday, November 08, 2017 16:14:07 Pacific Standard Time

Name: 171107M2\_4, Date: 07-Nov-2017, Time: 22:17:55, ID: 1701439-01 FRB05\_20171005 0.125, Description: FRB05\_20171005



Dataset: U:\Q4.PRO\results\171103M1\171103M1-5.qld

Last Altered: Friday, November 03, 2017 16:03:56 Pacific Daylight Time

Printed: Friday, November 03, 2017 16:04:20 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 01 Nov 2017 11:32:51

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

Name: 171103M1\_5, Date: 03-Nov-2017, Time: 14:08:50, ID: 1701439-05 FRB06\_20171006 0.125, Description: FRB06\_20171006

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8		6.04e3	0.1195		1.17				
2	2 PFPeA	263.1 > 218.9		6.30e3	0.1195		2.15				
3	3 PFBS	299.0 > 79.7		7.82e2	0.1195		2.44				
4	4 PFHxA	313.2 > 268.9		2.41e3	0.1195		2.93				
5	5 PFHpA	363.0 > 318.9		5.87e3	0.1195		3.56				
6	6 L-PFHxS	398.9 > 79.6	2.29e0	6.18e2	0.1195		3.71	3.59	0.0462		
7	9 L-PFOA	413 > 368.7		7.84e3	0.1195		4.05				
8	12 PFNA	463.0 > 418.8		6.26e3	0.1195		4.55				
9	13 PFOSA	498.1 > 77.8		1.20e3	0.1195		4.59				
10	14 L-PFOS	499 > 79.9		1.60e3	0.1195		4.63				
11	16 PFDA	513 > 468.8		6.06e3	0.1195		4.92				
12	18 N-MeFOSAA	570.1 > 419		2.47e3	0.1195		5.08				
13	19 N-EtFOSAA	584.2 > 419		2.61e3	0.1195		5.24				
14	20 PFUdA	563.0 > 518.9		7.33e3	0.1195		5.25				
15	21 PFDS	598.8 > 80		7.33e3	0.1195		5.31				
16	22 PFDoA	612.9 > 569.0		8.18e3	0.1195		5.55				
17	24 PFTTrDA	662.9 > 618.9		8.18e3	0.1195		5.80				



Dataset: U:\Q4.PRO\results\171103M1\171103M1-5.qld

Last Altered: Friday, November 03, 2017 16:03:56 Pacific Daylight Time

Printed: Friday, November 03, 2017 16:04:28 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 01 Nov 2017 11:32:51

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

Name: 171103M1\_5, Date: 03-Nov-2017, Time: 14:08:50, ID: 1701439-05 FRB06\_20171006 0.125, Description: FRB06\_20171006

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	25 PFTeDA	712.9 > 668.8		5.82e3	0.1195		6.02				
2	31 13C3-PFBA	216.1 > 171.8	6.04e3	7.38e3	0.1195	0.949	1.17	1.07	10.2	90.229	86.2
3	32 13C3-PFPeA	266. > 221.8	6.30e3	9.34e3	0.1195	0.781	2.15	2.02	8.43	90.342	86.3
4	33 13C3-PFBS	302. > 98.8	7.82e2	9.34e3	0.1195	0.089	2.44	2.31	1.05	98.952	94.6
5	34 13C2-PFHxA	315 > 269.8	2.41e3	9.34e3	0.1195	0.755	2.93	2.81	3.23	35.812	85.6
6	35 13C4-PFHpA	367.2 > 321.8	5.87e3	9.34e3	0.1195	0.711	3.56	3.43	7.85	92.422	88.3
7	36 18O2-PFHxS	403.0 > 102.6	6.18e2	1.69e3	0.1195	0.423	3.71	3.59	4.57	90.316	86.3
8	37 13C2-6:2 FTS	429.1 > 408.9	1.93e3	8.18e3	0.1195	0.286	4.03	3.91	2.95	86.382	82.6
9	38 13C2-PFOA	414.9 > 369.7	7.84e3	8.18e3	0.1195	1.310	4.05	3.96	12.0	76.597	73.2
10	39 13C5-PFNA	468.2 > 422.9	6.26e3	8.53e3	0.1195	0.979	4.55	4.41	9.17	78.373	74.9
11	40 13C8-PFOSA	506.1 > 77.7	1.20e3	1.03e4	0.1195	0.207	4.59	4.47	1.45	58.733	56.1
12	41 13C8-PFOS	507.0 > 79.9	1.60e3	2.00e3	0.1195	1.072	4.63	4.50	10.0	78.088	74.6
13	42 13C2-PFDA	515.1 > 469.9	6.06e3	1.06e4	0.1195	1.014	4.92	4.80	7.12	58.767	56.2
14	43 13C2-8:2 FTS	529.1 > 508.7	1.98e3	1.06e4	0.1195	0.216	4.89	4.76	2.33	90.286	86.3
15	44 d3-N-MeFOSAA	573.3 > 419	2.47e3	1.03e4	0.1195	0.368	5.08	4.95	2.98	67.821	64.8
16	45 d5-N-EtFOSAA	589.3 > 419	2.61e3	1.03e4	0.1195	0.389	5.24	5.11	3.15	67.850	64.8
17	46 13C2-PFUDa	565 > 519.8	7.33e3	1.03e4	0.1195	0.983	5.25	5.13	8.87	75.499	72.2
18	47 13C2-PFDOa	615.0 > 569.7	8.18e3	1.03e4	0.1195	0.997	5.55	5.42	9.89	83.023	79.3
19	49 13C2-PFTeDA	714.8 > 669.6	5.82e3	1.03e4	0.1195	1.039	6.02	5.90	7.03	56.616	54.1
20	54 13C4-PFBA	217. > 171.8	7.38e3	7.38e3	0.1195	1.000	1.17	1.07	12.5	104.629	100.0
21	55 13C5-PFHxA	318 > 272.9	9.34e3	9.34e3	0.1195	1.000	2.93	2.81	12.5	104.629	100.0
22	56 13C3-PFHxS	401.9 > 79.9	1.69e3	1.69e3	0.1195	1.000	3.71	3.59	12.5	104.629	100.0
23	57 13C8-PFOA	421.3 > 376	8.18e3	8.18e3	0.1195	1.000	4.05	3.96	12.5	104.629	100.0
24	58 13C9-PFNA	472.2 > 426.9	8.53e3	8.53e3	0.1195	1.000	4.55	4.41	12.5	104.629	100.0
25	59 13C4-PFOS	503 > 79.9	2.00e3	2.00e3	0.1195	1.000	4.63	4.50	12.5	104.629	100.0
26	60 13C6-PFDA	519.1 > 473.7	1.06e4	1.06e4	0.1195	1.000	4.92	4.80	12.5	104.629	100.0
27	61 13C7-PFUDa	570.1 > 524.8	1.03e4	1.03e4	0.1195	1.000	5.25	5.13	12.5	104.629	100.0
28	62 Total PFHxS	398.9 > 79.6	2.29e0	6.18e2	0.1195		3.71		0.000		
29	63 Total PFOA	413 > 368.7	0.00e0	7.84e3	0.1195		4.05		0.000		
30	64 Total PFOS	499 > 79.9	0.00e0	1.60e3	0.1195		4.63		0.000		
31	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.47e3	0.1195		5.08		0.000		
32	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.61e3	0.1195		5.24		0.000		

GM 11/3/17

Dataset: U:\Q4.PRO\results\171103M1\171103M1-5.qld

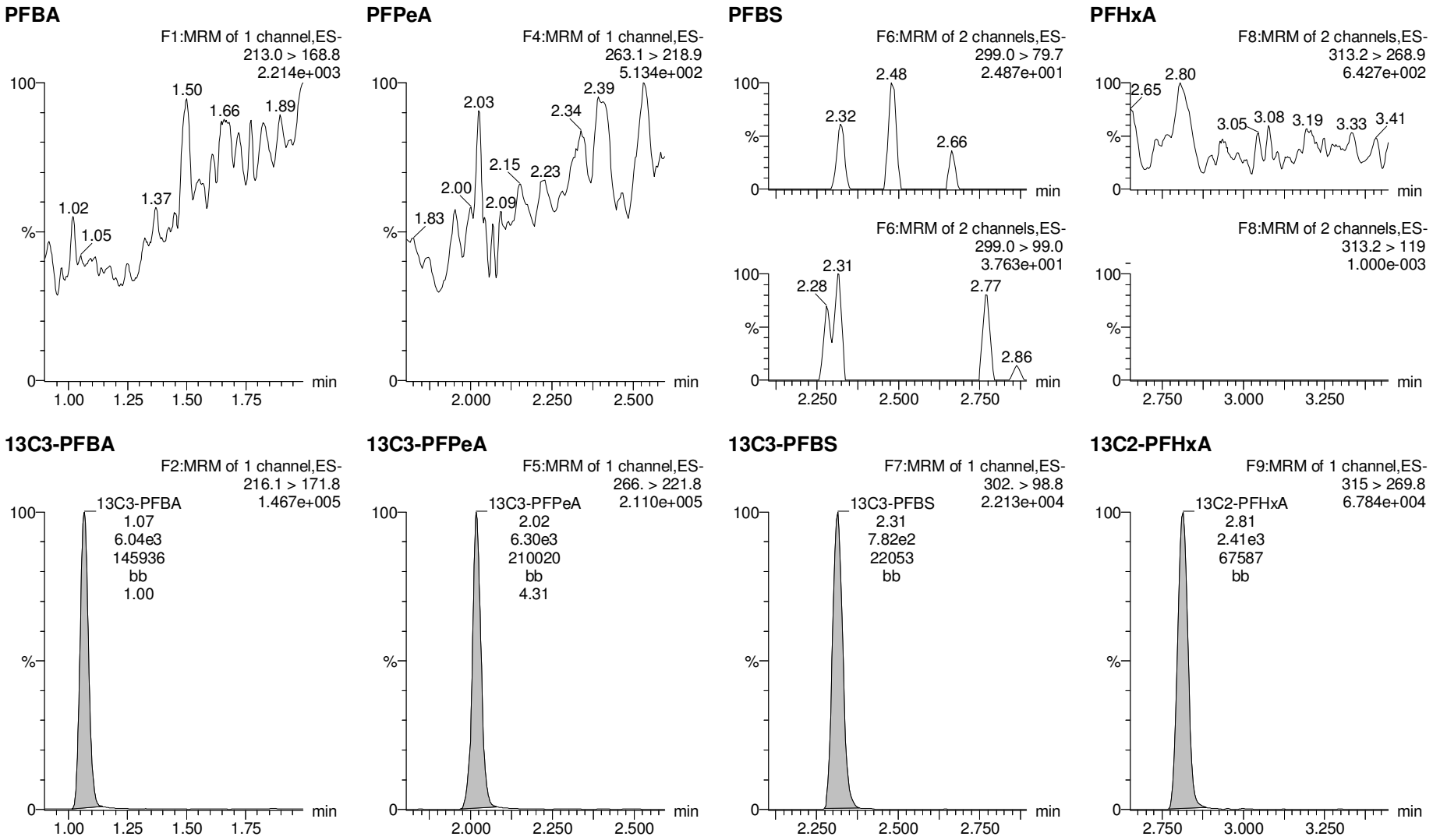
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Printed: Friday, November 03, 2017 16:04:28 Pacific Daylight Time

Rev'd: MM 11/4/17

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Name: 171103M1\_5, Date: 03-Nov-2017, Time: 14:08:50, ID: 1701439-05 FRB06\_20171006 0.125, Description: FRB06\_20171006



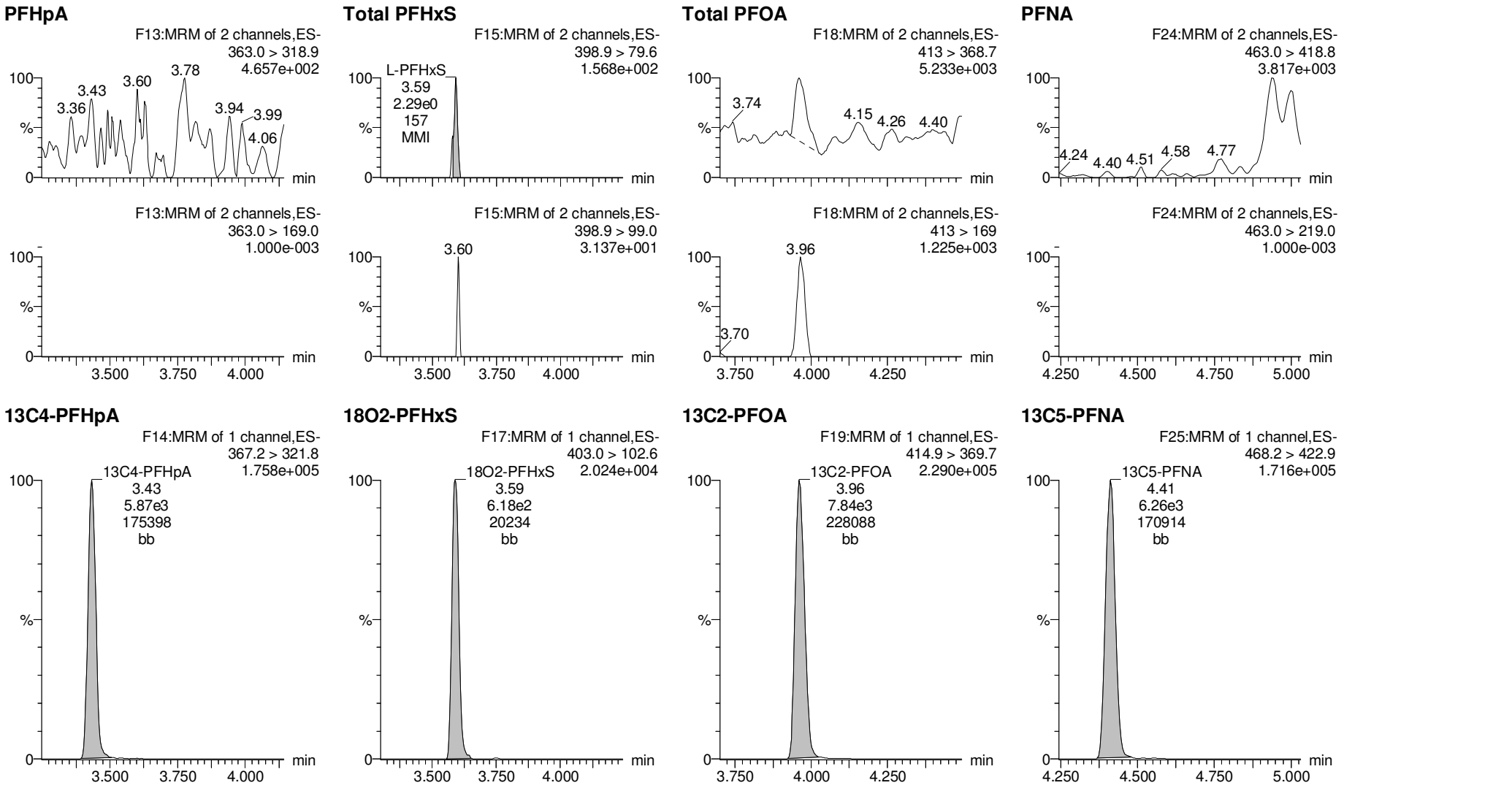
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Printed: Friday, November 03, 2017 16:04:28 Pacific Daylight Time

Rev'd: MM 11/4/17

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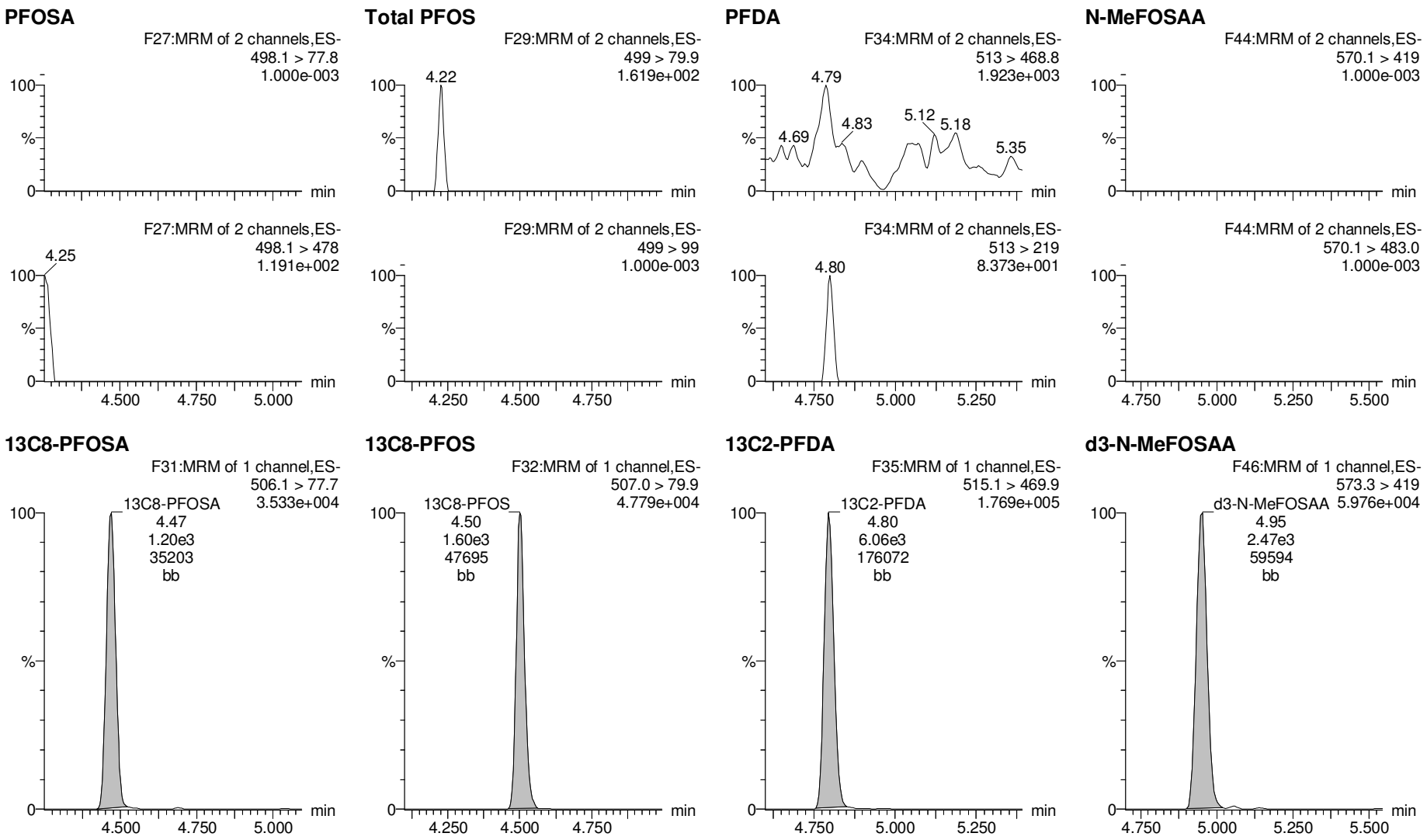


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Vista Analytical Laboratory

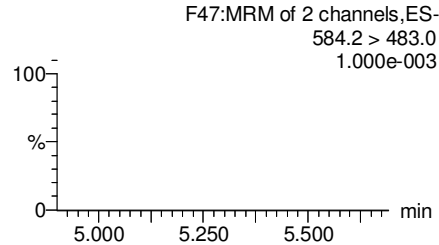
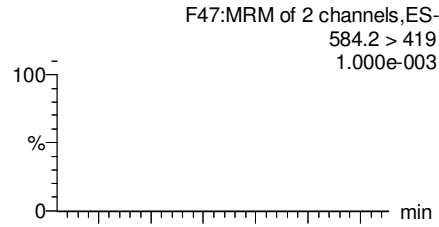
Rev'd: MM 11/4/17

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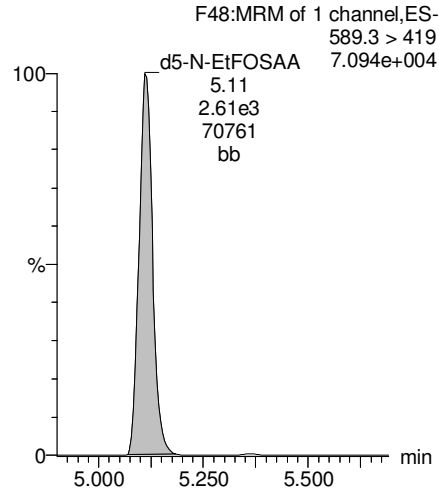
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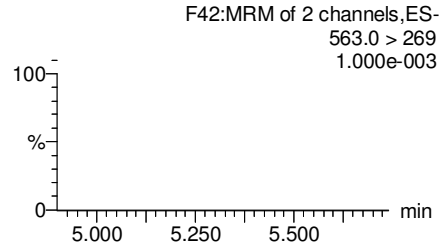
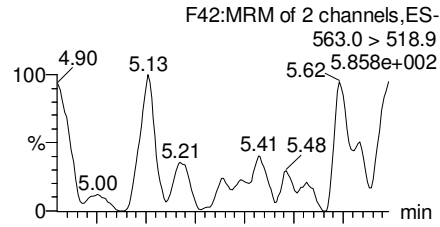
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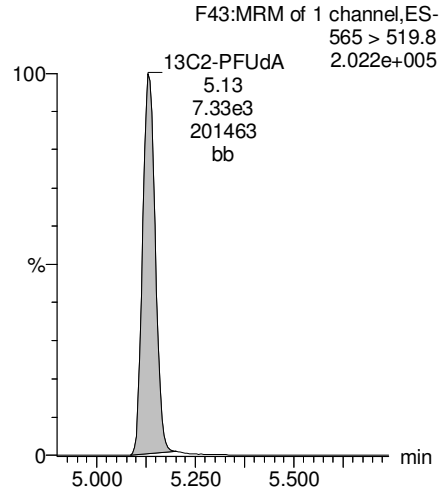
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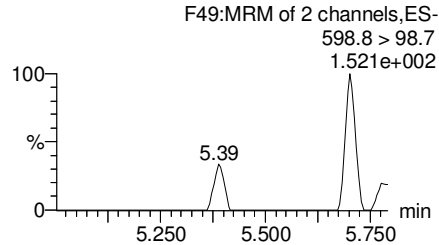
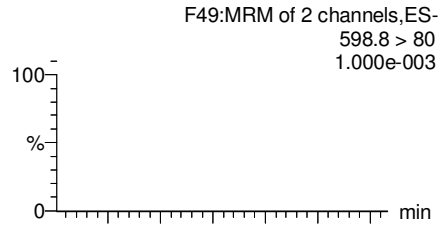
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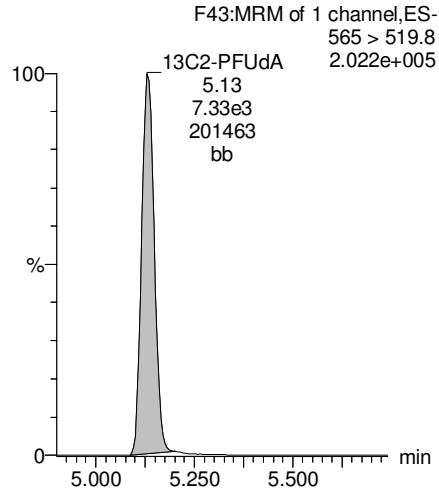
13C2-PFUdA



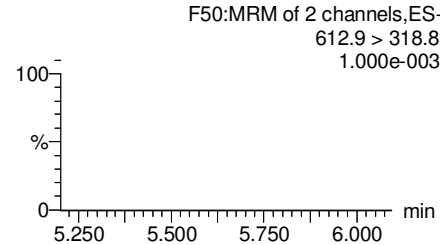
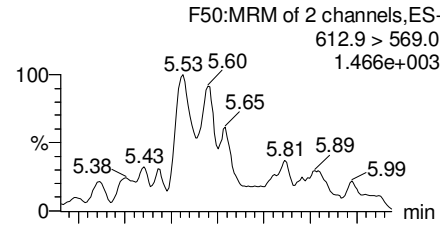
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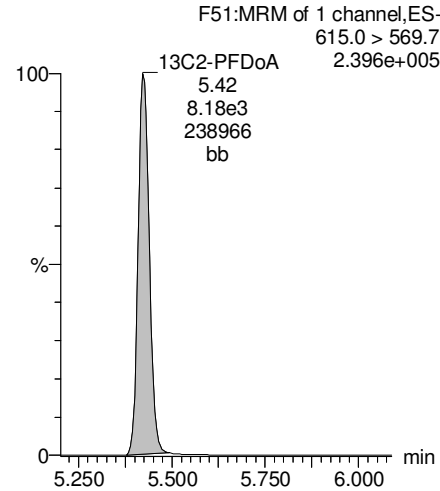
13C2-PFUdA



PFDaA



13C2-PFDaA



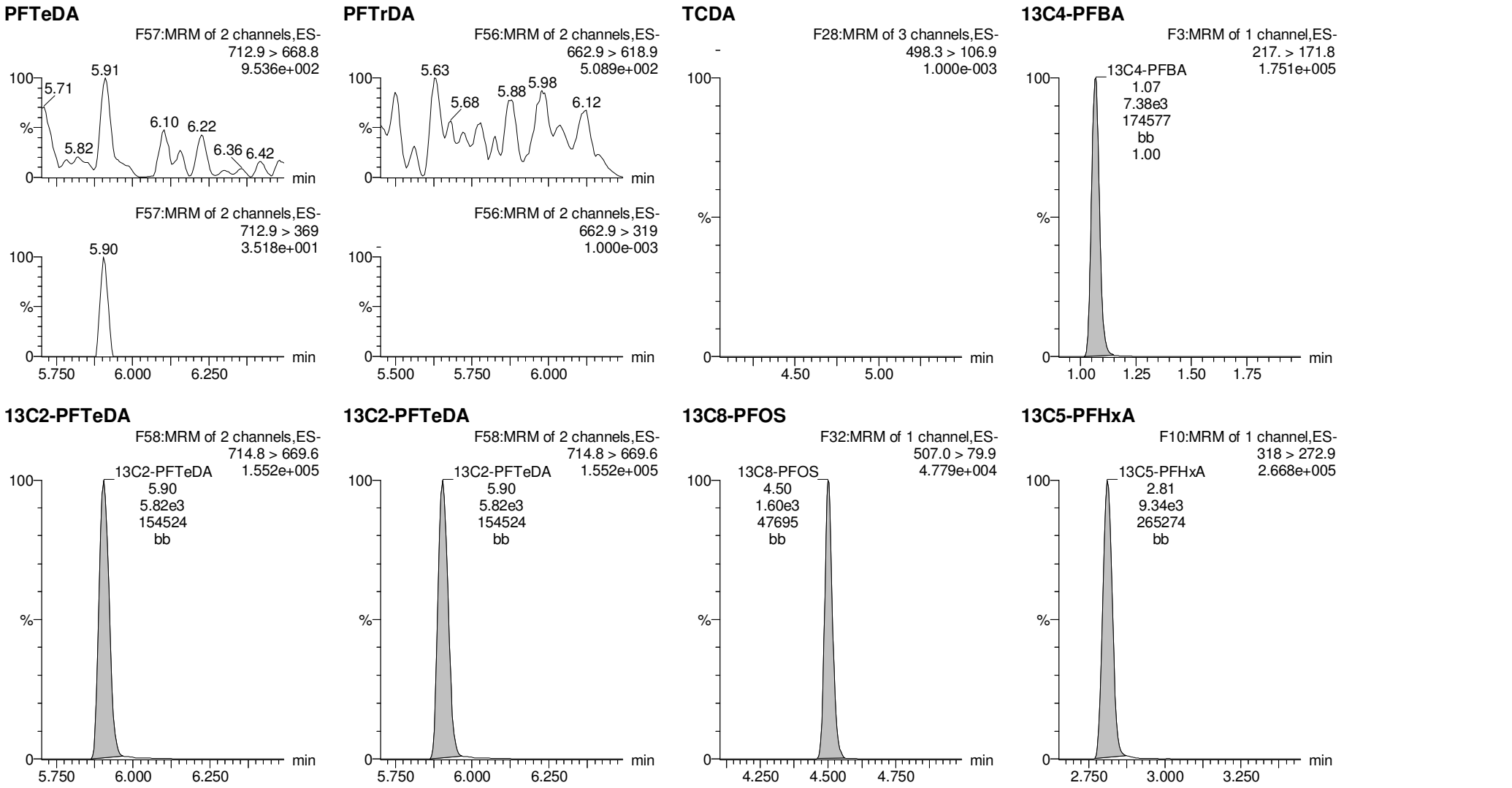
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Printed: Friday, November 03, 2017 16:04:28 Pacific Daylight Time

Rev'd: MM 11/4/17

Name: 171103M1\_5, Date: 03-Nov-2017, Time: 14:08:50, ID: 1701439-05 FRB06\_20171006 0.125, Description: FRB06\_20171006

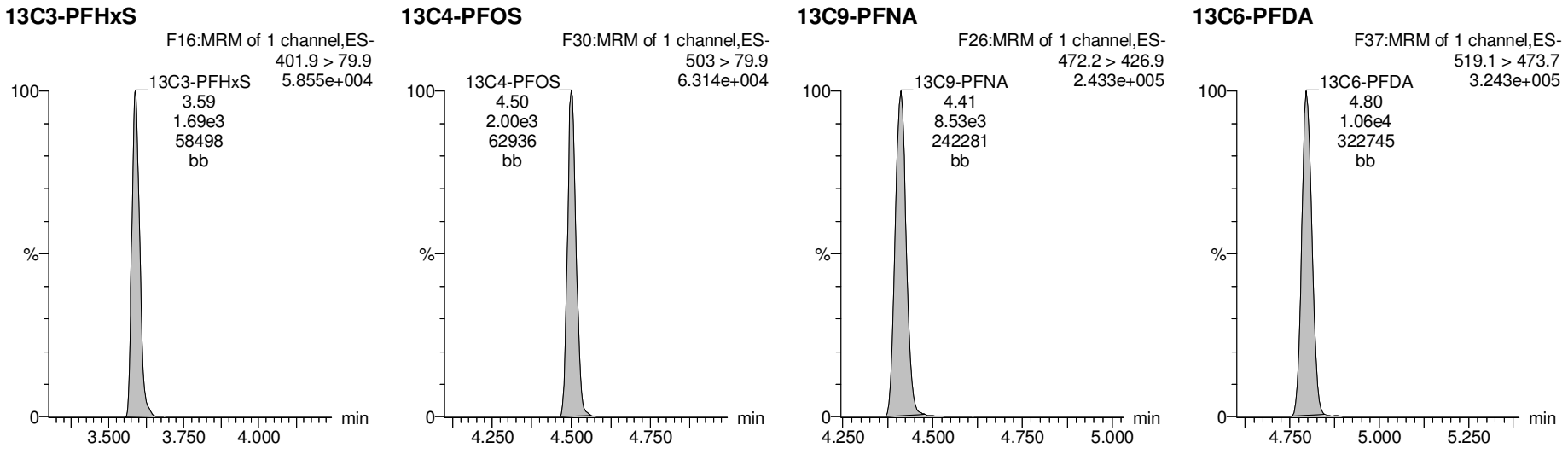


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Name: 171103M1\_5, Date: 03-Nov-2017, Time: 14:08:50, ID: 1701439-05 FRB06\_20171006 0.125, Description: FRB06\_20171006



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



Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time  
Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_RS-10-27-17.mdb 27 Oct 2017 15:32:48  
Calibration: 27 Oct 2017 15:35:32

Name: 171026M1\_7, Date: 26-Oct-2017, Time: 10:22:11, ID: ST171026M1-6 PFC CS3 17J1806, Description: PFC CS3 17J1806

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171026M1-6 PFC CS3 17J1806	9.46e3	100.0	NO
2	2 13C5-PFHxA	ST171026M1-6 PFC CS3 17J1806	1.31e4	100.0	NO
3	3 13C3-PFHxS	ST171026M1-6 PFC CS3 17J1806	2.28e3	100.0	NO
4	4 13C8-PFOA	ST171026M1-6 PFC CS3 17J1806	1.18e4	100.0	NO
5	5 13C9-PFNA	ST171026M1-6 PFC CS3 17J1806	1.12e4	100.0	NO
6	6 13C4-PFOS	ST171026M1-6 PFC CS3 17J1806	2.51e3	100.0	NO
7	7 13C6-PFDA	ST171026M1-6 PFC CS3 17J1806	1.20e4	100.0	NO
8	8 13C7-PFUnA	ST171026M1-6 PFC CS3 17J1806	1.38e4	100.0	NO

Name: 171026M1\_8, Date: 26-Oct-2017, Time: 10:33:24, ID: ST171026M1-7 PFC CS4 17J2102, Description: PFC CS4 17J2102

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171026M1-7 PFC CS4 17J2102	8.00e3	84.5	NO
2	2 13C5-PFHxA	ST171026M1-7 PFC CS4 17J2102	1.17e4	89.3	NO
3	3 13C3-PFHxS	ST171026M1-7 PFC CS4 17J2102	1.96e3	85.7	NO
4	4 13C8-PFOA	ST171026M1-7 PFC CS4 17J2102	9.34e3	79.4	NO
5	5 13C9-PFNA	ST171026M1-7 PFC CS4 17J2102	1.05e4	94.3	NO
6	6 13C4-PFOS	ST171026M1-7 PFC CS4 17J2102	2.33e3	92.9	NO
7	7 13C6-PFDA	ST171026M1-7 PFC CS4 17J2102	1.10e4	91.9	NO
8	8 13C7-PFUnA	ST171026M1-7 PFC CS4 17J2102	1.30e4	94.1	NO

Name: 171026M1\_9, Date: 26-Oct-2017, Time: 10:44:36, ID: ST171026M1-8 PFC CS5 17J2101, Description: PFC CS5 17J2101

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171026M1-8 PFC CS5 17J2101	7.89e3	83.3	NO
2	2 13C5-PFHxA	ST171026M1-8 PFC CS5 17J2101	9.83e3	75.0	NO
3	3 13C3-PFHxS	ST171026M1-8 PFC CS5 17J2101	1.91e3	83.6	NO
4	4 13C8-PFOA	ST171026M1-8 PFC CS5 17J2101	9.00e3	76.5	NO
5	5 13C9-PFNA	ST171026M1-8 PFC CS5 17J2101	9.96e3	89.1	NO
6	6 13C4-PFOS	ST171026M1-8 PFC CS5 17J2101	2.00e3	80.0	NO
7	7 13C6-PFDA	ST171026M1-8 PFC CS5 17J2101	1.03e4	86.1	NO
8	8 13C7-PFUnA	ST171026M1-8 PFC CS5 17J2101	1.00e4	72.3	NO

Name: 171026M1\_10, Date: 26-Oct-2017, Time: 10:55:46, ID: ST171026M1-9 PFC CS6 17J2517, Description: PFC CS6 17J2517

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171026M1-9 PFC CS6 17J2517	7.54e3	79.6	NO
2	2 13C5-PFHxA	ST171026M1-9 PFC CS6 17J2517	9.52e3	72.6	NO
3	3 13C3-PFHxS	ST171026M1-9 PFC CS6 17J2517	1.81e3	79.2	NO
4	4 13C8-PFOA	ST171026M1-9 PFC CS6 17J2517	8.18e3	69.5	NO
5	5 13C9-PFNA	ST171026M1-9 PFC CS6 17J2517	9.05e3	81.0	NO
6	6 13C4-PFOS	ST171026M1-9 PFC CS6 17J2517	1.94e3	77.3	NO
7	7 13C6-PFDA	ST171026M1-9 PFC CS6 17J2517	8.81e3	73.4	NO
8	8 13C7-PFUnA	ST171026M1-9 PFC CS6 17J2517	9.76e3	70.5	NO

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Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Name: 171026M1\_11, Date: 26-Oct-2017, Time: 11:07:20, ID: ST171026M1-10 PFC CS7 17J2518, Description: PFC CS7 17J2518

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171026M1-10 PFC CS7 17J2518	7.99e3	84.5	NO
2	2	13C5-PFHxA	ST171026M1-10 PFC CS7 17J2518	9.61e3	73.3	NO
3	3	13C3-PFHxS	ST171026M1-10 PFC CS7 17J2518	1.76e3	77.0	NO
4	4	13C8-PFOA	ST171026M1-10 PFC CS7 17J2518	9.10e3	77.3	NO
5	5	13C9-PFNA	ST171026M1-10 PFC CS7 17J2518	9.34e3	83.5	NO
6	6	13C4-PFOS	ST171026M1-10 PFC CS7 17J2518	1.80e3	72.0	NO
7	7	13C6-PFDA	ST171026M1-10 PFC CS7 17J2518	1.02e4	85.1	NO
8	8	13C7-PFUnA	ST171026M1-10 PFC CS7 17J2518	1.04e4	74.8	NO

Name: 171026M1\_12, Date: 26-Oct-2017, Time: 11:18:50, 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-PFUnA	IPA			NO

Name: 171026M1\_13, Date: 26-Oct-2017, Time: 11:30:01, ID: ICV171026M1-1 PFC ICV 17I3003, Description: PFC ICV 17I3003

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ICV171026M1-1 PFC ICV 17I3003	8.85e3	93.5	NO
2	2	13C5-PFHxA	ICV171026M1-1 PFC ICV 17I3003	1.20e4	91.7	NO
3	3	13C3-PFHxS	ICV171026M1-1 PFC ICV 17I3003	2.17e3	94.8	NO
4	4	13C8-PFOA	ICV171026M1-1 PFC ICV 17I3003	1.14e4	96.5	NO
5	5	13C9-PFNA	ICV171026M1-1 PFC ICV 17I3003	1.20e4	107.0	NO
6	6	13C4-PFOS	ICV171026M1-1 PFC ICV 17I3003	2.51e3	100.0	NO
7	7	13C6-PFDA	ICV171026M1-1 PFC ICV 17I3003	1.25e4	104.5	NO
8	8	13C7-PFUnA	ICV171026M1-1 PFC ICV 17I3003	1.46e4	105.8	NO

Name: 171026M1\_14, Date: 26-Oct-2017, Time: 11:41:12, 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-PFUnA	IPA			NO

Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Name: 171026M1\_15, Date: 26-Oct-2017, Time: 11:52:22, ID: B7J0122-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0122-BS1 OPR 0.125	8.21e3	86.7	NO
2	2	13C5-PFHxA	B7J0122-BS1 OPR 0.125	1.13e4	86.5	NO
3	3	13C3-PFHxS	B7J0122-BS1 OPR 0.125	2.22e3	97.1	NO
4	4	13C8-PFOA	B7J0122-BS1 OPR 0.125	1.05e4	89.6	NO
5	5	13C9-PFNA	B7J0122-BS1 OPR 0.125	1.16e4	104.1	NO
6	6	13C4-PFOS	B7J0122-BS1 OPR 0.125	2.60e3	103.6	NO
7	7	13C6-PFDA	B7J0122-BS1 OPR 0.125	1.19e4	99.2	NO
8	8	13C7-PFUnA	B7J0122-BS1 OPR 0.125	1.39e4	100.6	NO

Name: 171026M1\_16, Date: 26-Oct-2017, Time: 12:03:33, ID: B7J0092-BS1 OPR 0.125, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0092-BS1 OPR 0.125	9.00e3	95.2	NO
2	2	13C5-PFHxA	B7J0092-BS1 OPR 0.125	1.33e4	101.6	NO
3	3	13C3-PFHxS	B7J0092-BS1 OPR 0.125	2.39e3	104.7	NO
4	4	13C8-PFOA	B7J0092-BS1 OPR 0.125	1.18e4	100.5	NO
5	5	13C9-PFNA	B7J0092-BS1 OPR 0.125	1.29e4	115.4	NO
6	6	13C4-PFOS	B7J0092-BS1 OPR 0.125	2.78e3	111.1	NO
7	7	13C6-PFDA	B7J0092-BS1 OPR 0.125	1.43e4	118.8	NO
8	8	13C7-PFUnA	B7J0092-BS1 OPR 0.125	1.51e4	109.0	NO

Name: 171026M1\_17, Date: 26-Oct-2017, Time: 12:14:43, ID: B7J0152-BS1 OPR 0.005, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0152-BS1 OPR 0.005	7.91e3	83.6	NO
2	2	13C5-PFHxA	B7J0152-BS1 OPR 0.005	1.03e4	78.7	NO
3	3	13C3-PFHxS	B7J0152-BS1 OPR 0.005	2.04e3	89.3	NO
4	4	13C8-PFOA	B7J0152-BS1 OPR 0.005	9.39e3	79.8	NO
5	5	13C9-PFNA	B7J0152-BS1 OPR 0.005	9.53e3	85.3	NO
6	6	13C4-PFOS	B7J0152-BS1 OPR 0.005	1.51e3	60.1	NO
7	7	13C6-PFDA	B7J0152-BS1 OPR 0.005	7.87e3	65.6	NO
8	8	13C7-PFUnA	B7J0152-BS1 OPR 0.005	4.15e3	29.9	YES

Name: 171026M1\_18, Date: 26-Oct-2017, Time: 12:25:54, ID: B7J0136-BS1 OPR 1, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-BS1 OPR 1	7.43e3	78.5	NO
2	2	13C5-PFHxA	B7J0136-BS1 OPR 1	1.02e4	78.2	NO
3	3	13C3-PFHxS	B7J0136-BS1 OPR 1	2.04e3	89.4	NO
4	4	13C8-PFOA	B7J0136-BS1 OPR 1	9.77e3	83.0	NO
5	5	13C9-PFNA	B7J0136-BS1 OPR 1	1.04e4	93.3	NO
6	6	13C4-PFOS	B7J0136-BS1 OPR 1	1.91e3	76.3	NO
7	7	13C6-PFDA	B7J0136-BS1 OPR 1	9.16e3	76.4	NO
8	8	13C7-PFUnA	B7J0136-BS1 OPR 1	6.42e3	46.4	YES

Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Name: 171026M1\_19, Date: 26-Oct-2017, Time: 12:37:09, ID: B7J0136-BSD1 LCS Dup 1, Description: LCS Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-BSD1 LCS Dup 1	6.85e3	72.4	NO
2	2	13C5-PFHxA	B7J0136-BSD1 LCS Dup 1	9.37e3	71.5	NO
3	3	13C3-PFHxS	B7J0136-BSD1 LCS Dup 1	1.86e3	81.3	NO
4	4	13C8-PFOA	B7J0136-BSD1 LCS Dup 1	8.53e3	72.5	NO
5	5	13C9-PFNA	B7J0136-BSD1 LCS Dup 1	9.09e3	81.3	NO
6	6	13C4-PFOS	B7J0136-BSD1 LCS Dup 1	1.68e3	66.9	NO
7	7	13C6-PFDA	B7J0136-BSD1 LCS Dup 1	7.63e3	63.6	NO
8	8	13C7-PFUnA	B7J0136-BSD1 LCS Dup 1	4.59e3	33.1	YES

Name: 171026M1\_20, Date: 26-Oct-2017, Time: 12:48:25, 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-PFUnA	IPA			NO

Name: 171026M1\_21, Date: 26-Oct-2017, Time: 12:59:36, ID: B7J0122-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0122-BLK1 Method Blank 0.125	7.89e3	83.4	NO
2	2	13C5-PFHxA	B7J0122-BLK1 Method Blank 0.125	1.07e4	81.3	NO
3	3	13C3-PFHxS	B7J0122-BLK1 Method Blank 0.125	1.95e3	85.4	NO
4	4	13C8-PFOA	B7J0122-BLK1 Method Blank 0.125	9.63e3	81.9	NO
5	5	13C9-PFNA	B7J0122-BLK1 Method Blank 0.125	1.09e4	97.8	NO
6	6	13C4-PFOS	B7J0122-BLK1 Method Blank 0.125	2.37e3	94.7	NO
7	7	13C6-PFDA	B7J0122-BLK1 Method Blank 0.125	1.12e4	93.3	NO
8	8	13C7-PFUnA	B7J0122-BLK1 Method Blank 0.125	1.44e4	103.8	NO

Name: 171026M1\_22, Date: 26-Oct-2017, Time: 13:10:47, ID: B7J0092-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0092-BLK1 Method Blank 0.125	8.09e3	85.5	NO
2	2	13C5-PFHxA	B7J0092-BLK1 Method Blank 0.125	1.17e4	89.5	NO
3	3	13C3-PFHxS	B7J0092-BLK1 Method Blank 0.125	2.31e3	101.0	NO
4	4	13C8-PFOA	B7J0092-BLK1 Method Blank 0.125	1.13e4	96.4	NO
5	5	13C9-PFNA	B7J0092-BLK1 Method Blank 0.125	1.25e4	111.8	NO
6	6	13C4-PFOS	B7J0092-BLK1 Method Blank 0.125	2.41e3	96.1	NO
7	7	13C6-PFDA	B7J0092-BLK1 Method Blank 0.125	1.38e4	114.9	NO
8	8	13C7-PFUnA	B7J0092-BLK1 Method Blank 0.125	1.52e4	109.9	NO

Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Name: 171026M1\_23, Date: 26-Oct-2017, Time: 13:21:58, ID: B7J0152-BLK1 Method Blank 0.005, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0152-BLK1 Method Blank 0.005	6.71e3	70.9	NO
2	2	13C5-PFHxA	B7J0152-BLK1 Method Blank 0.005	9.43e3	71.9	NO
3	3	13C3-PFHxS	B7J0152-BLK1 Method Blank 0.005	1.81e3	79.2	NO
4	4	13C8-PFOA	B7J0152-BLK1 Method Blank 0.005	8.55e3	72.7	NO
5	5	13C9-PFNA	B7J0152-BLK1 Method Blank 0.005	8.47e3	75.8	NO
6	6	13C4-PFOS	B7J0152-BLK1 Method Blank 0.005	1.69e3	67.6	NO
7	7	13C6-PFDA	B7J0152-BLK1 Method Blank 0.005	7.70e3	64.1	NO
8	8	13C7-PFUnA	B7J0152-BLK1 Method Blank 0.005	5.27e3	38.0	YES

Name: 171026M1\_24, Date: 26-Oct-2017, Time: 13:33:09, ID: B7J0136-BLK1 Method Blank 1, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-BLK1 Method Blank 1	7.31e3	77.3	NO
2	2	13C5-PFHxA	B7J0136-BLK1 Method Blank 1	1.01e4	76.9	NO
3	3	13C3-PFHxS	B7J0136-BLK1 Method Blank 1	2.16e3	94.5	NO
4	4	13C8-PFOA	B7J0136-BLK1 Method Blank 1	9.47e3	80.5	NO
5	5	13C9-PFNA	B7J0136-BLK1 Method Blank 1	9.36e3	83.7	NO
6	6	13C4-PFOS	B7J0136-BLK1 Method Blank 1	1.84e3	73.4	NO
7	7	13C6-PFDA	B7J0136-BLK1 Method Blank 1	8.57e3	71.4	NO
8	8	13C7-PFUnA	B7J0136-BLK1 Method Blank 1	5.54e3	40.0	YES

Name: 171026M1\_25, Date: 26-Oct-2017, Time: 13:44:19, ID: B7J0136-MS1 Matrix Spike 1.1, Description: Matrix Spike

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MS1 Matrix Spike 1.1	7.03e3	74.3	NO
2	2	13C5-PFHxA	B7J0136-MS1 Matrix Spike 1.1	9.40e3	71.7	NO
3	3	13C3-PFHxS	B7J0136-MS1 Matrix Spike 1.1	1.95e3	85.5	NO
4	4	13C8-PFOA	B7J0136-MS1 Matrix Spike 1.1	8.98e3	76.3	NO
5	5	13C9-PFNA	B7J0136-MS1 Matrix Spike 1.1	1.04e4	93.1	NO
6	6	13C4-PFOS	B7J0136-MS1 Matrix Spike 1.1	2.08e3	83.0	NO
7	7	13C6-PFDA	B7J0136-MS1 Matrix Spike 1.1	1.24e4	103.3	NO
8	8	13C7-PFUnA	B7J0136-MS1 Matrix Spike 1.1	1.16e4	83.5	NO

Name: 171026M1\_26, Date: 26-Oct-2017, Time: 13:55:30, ID: B7J0136-MSD1 Matrix Spike Dup 1.1, Description: Matrix Spike Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MSD1 Matrix Spike Dup 1.1	7.63e3	80.6	NO
2	2	13C5-PFHxA	B7J0136-MSD1 Matrix Spike Dup 1.1	1.04e4	79.4	NO
3	3	13C3-PFHxS	B7J0136-MSD1 Matrix Spike Dup 1.1	2.36e3	103.4	NO
4	4	13C8-PFOA	B7J0136-MSD1 Matrix Spike Dup 1.1	1.05e4	89.2	NO
5	5	13C9-PFNA	B7J0136-MSD1 Matrix Spike Dup 1.1	1.06e4	95.0	NO
6	6	13C4-PFOS	B7J0136-MSD1 Matrix Spike Dup 1.1	2.23e3	89.1	NO
7	7	13C6-PFDA	B7J0136-MSD1 Matrix Spike Dup 1.1	1.12e4	93.0	NO
8	8	13C7-PFUnA	B7J0136-MSD1 Matrix Spike Dup 1.1	1.01e4	72.8	NO

Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Name: 171026M1\_27, Date: 26-Oct-2017, Time: 14:06:41, ID: B7J0136-MS2 Matrix Spike 1.12, Description: Matrix Spike

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MS2 Matrix Spike 1.12	8.42e3	89.0	NO
2	2	13C5-PFHxA	B7J0136-MS2 Matrix Spike 1.12	1.05e4	80.3	NO
3	3	13C3-PFHxS	B7J0136-MS2 Matrix Spike 1.12	2.27e3	99.4	NO
4	4	13C8-PFOA	B7J0136-MS2 Matrix Spike 1.12	7.89e3	67.1	NO
5	5	13C9-PFNA	B7J0136-MS2 Matrix Spike 1.12	1.17e4	105.0	NO
6	6	13C4-PFOS	B7J0136-MS2 Matrix Spike 1.12	2.32e3	92.4	NO
7	7	13C6-PFDA	B7J0136-MS2 Matrix Spike 1.12	6.49e3	54.1	NO
8	8	13C7-PFUnA	B7J0136-MS2 Matrix Spike 1.12	1.47e4	105.8	NO

Name: 171026M1\_28, Date: 26-Oct-2017, Time: 14:17:51, ID: B7J0136-MSD2 Matrix Spike Dup 1.18, Description: Matrix Spike Dup

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MSD2 Matrix Spike Dup 1.18	7.00e3	74.0	NO
2	2	13C5-PFHxA	B7J0136-MSD2 Matrix Spike Dup 1.18	8.82e3	67.3	NO
3	3	13C3-PFHxS	B7J0136-MSD2 Matrix Spike Dup 1.18	1.95e3	85.3	NO
4	4	13C8-PFOA	B7J0136-MSD2 Matrix Spike Dup 1.18	6.71e3	57.0	NO
5	5	13C9-PFNA	B7J0136-MSD2 Matrix Spike Dup 1.18	9.22e3	82.4	NO
6	6	13C4-PFOS	B7J0136-MSD2 Matrix Spike Dup 1.18	1.77e3	70.7	NO
7	7	13C6-PFDA	B7J0136-MSD2 Matrix Spike Dup 1.18	5.29e3	44.1	YES
8	8	13C7-PFUnA	B7J0136-MSD2 Matrix Spike Dup 1.18	9.79e3	70.7	NO

Name: 171026M1\_29, Date: 26-Oct-2017, Time: 14:29:02, ID: 1701430-02RE2@20X Foam-6603 Loud 0.04537, Description: Foam-6603 Loud

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701430-02RE2@20X Foam-6603 Lou...	3.54e2	3.7	YES
2	2	13C5-PFHxA	1701430-02RE2@20X Foam-6603 Lou...	5.28e2	4.0	YES
3	3	13C3-PFHxS	1701430-02RE2@20X Foam-6603 Lou...	9.71e1	4.3	YES
4	4	13C8-PFOA	1701430-02RE2@20X Foam-6603 Lou...	4.96e2	4.2	YES
5	5	13C9-PFNA	1701430-02RE2@20X Foam-6603 Lou...	5.35e2	4.8	YES
6	6	13C4-PFOS	1701430-02RE2@20X Foam-6603 Lou...	1.13e2	4.5	YES
7	7	13C6-PFDA	1701430-02RE2@20X Foam-6603 Lou...	5.45e2	4.5	YES
8	8	13C7-PFUnA	1701430-02RE2@20X Foam-6603 Lou...	6.74e2	4.9	YES

Name: 171026M1\_30, Date: 26-Oct-2017, Time: 14:40:13, ID: 1701430-02RE2 Foam-6603 Loud 0.04537, Description: Foam-6603 Loud

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701430-02RE2 Foam-6603 Loud 0.045...	7.69e3	81.2	NO
2	2	13C5-PFHxA	1701430-02RE2 Foam-6603 Loud 0.045...	1.06e4	81.1	NO
3	3	13C3-PFHxS	1701430-02RE2 Foam-6603 Loud 0.045...	1.98e3	86.7	NO
4	4	13C8-PFOA	1701430-02RE2 Foam-6603 Loud 0.045...	9.21e3	78.3	NO
5	5	13C9-PFNA	1701430-02RE2 Foam-6603 Loud 0.045...	1.06e4	95.0	NO
6	6	13C4-PFOS	1701430-02RE2 Foam-6603 Loud 0.045...	2.04e3	81.5	NO
7	7	13C6-PFDA	1701430-02RE2 Foam-6603 Loud 0.045...	1.20e4	100.1	NO
8	8	13C7-PFUnA	1701430-02RE2 Foam-6603 Loud 0.045...	1.44e4	103.8	NO

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Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

**Name: 171026M1\_31, Date: 26-Oct-2017, Time: 14:51:24, 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-PFUnA	IPA			NO

**Name: 171026M1\_32, Date: 26-Oct-2017, Time: 15:02:34, ID: 1701432-08RE1 Site 4-GW-04GW03-20171004 0.11516, Description: Site 4-GW-04GW03-20171004**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701432-08RE1 Site 4-GW-04GW03-2...	7.96e3	84.1	NO
2	2	13C5-PFHxA	1701432-08RE1 Site 4-GW-04GW03-2...	1.08e4	82.5	NO
3	3	13C3-PFHxS	1701432-08RE1 Site 4-GW-04GW03-2...	1.93e3	84.6	NO
4	4	13C8-PFOA	1701432-08RE1 Site 4-GW-04GW03-2...	9.84e3	83.6	NO
5	5	13C9-PFNA	1701432-08RE1 Site 4-GW-04GW03-2...	1.16e4	103.5	NO
6	6	13C4-PFOS	1701432-08RE1 Site 4-GW-04GW03-2...	2.44e3	97.3	NO
7	7	13C6-PFDA	1701432-08RE1 Site 4-GW-04GW03-2...	1.22e4	101.7	NO
8	8	13C7-PFUnA	1701432-08RE1 Site 4-GW-04GW03-2...	1.22e4	87.9	NO

**Name: 171026M1\_33, Date: 26-Oct-2017, Time: 15:13:45, ID: 1701384-01@10X MW-6 0.125, Description: MW-6**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701384-01@10X MW-6 0.125	3.54e3	18.7	YES
2	2	13C5-PFHxA	1701384-01@10X MW-6 0.125	5.19e3	19.8	YES
3	3	13C3-PFHxS	1701384-01@10X MW-6 0.125	1.01e3	22.1	YES
4	4	13C8-PFOA	1701384-01@10X MW-6 0.125	4.96e3	21.1	YES
5	5	13C9-PFNA	1701384-01@10X MW-6 0.125	5.68e3	25.4	YES
6	6	13C4-PFOS	1701384-01@10X MW-6 0.125	1.21e3	24.1	YES
7	7	13C6-PFDA	1701384-01@10X MW-6 0.125	5.36e3	22.3	YES
8	8	13C7-PFUnA	1701384-01@10X MW-6 0.125	6.05e3	21.9	YES

**Name: 171026M1\_34, Date: 26-Oct-2017, Time: 15:24:56, ID: 1701385-05@10X B-E-GW 0.11326, Description: B-E-GW**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701385-05@10X B-E-GW 0.11326	3.69e3	19.5	YES
2	2	13C5-PFHxA	1701385-05@10X B-E-GW 0.11326	4.71e3	18.0	YES
3	3	13C3-PFHxS	1701385-05@10X B-E-GW 0.11326	9.70e2	21.2	YES
4	4	13C8-PFOA	1701385-05@10X B-E-GW 0.11326	4.34e3	18.4	YES
5	5	13C9-PFNA	1701385-05@10X B-E-GW 0.11326	4.74e3	21.2	YES
6	6	13C4-PFOS	1701385-05@10X B-E-GW 0.11326	9.47e2	18.9	YES
7	7	13C6-PFDA	1701385-05@10X B-E-GW 0.11326	4.73e3	19.7	YES
8	8	13C7-PFUnA	1701385-05@10X B-E-GW 0.11326	5.45e3	19.7	YES

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Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Name: 171026M1\_35, Date: 26-Oct-2017, Time: 15:36:06, ID: 1701385-06@10X B-H-GW 0.11258, Description: B-H-GW

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701385-06@10X B-H-GW 0.11258	3.34e3	17.6	YES
2	2	13C5-PFHxA	1701385-06@10X B-H-GW 0.11258	4.43e3	16.9	YES
3	3	13C3-PFHxS	1701385-06@10X B-H-GW 0.11258	8.81e2	19.3	YES
4	4	13C8-PFOA	1701385-06@10X B-H-GW 0.11258	4.20e3	17.8	YES
5	5	13C9-PFNA	1701385-06@10X B-H-GW 0.11258	4.08e3	18.2	YES
6	6	13C4-PFOS	1701385-06@10X B-H-GW 0.11258	9.42e2	18.8	YES
7	7	13C6-PFDA	1701385-06@10X B-H-GW 0.11258	5.26e3	21.9	YES
8	8	13C7-PFUnA	1701385-06@10X B-H-GW 0.11258	5.48e3	19.8	YES

Name: 171026M1\_36, Date: 26-Oct-2017, Time: 15:47:17, ID: 1701385-07@10X B-I-GW 0.11542, Description: B-I-GW

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701385-07@10X B-I-GW 0.11542	2.92e3	15.4	YES
2	2	13C5-PFHxA	1701385-07@10X B-I-GW 0.11542	3.99e3	15.2	YES
3	3	13C3-PFHxS	1701385-07@10X B-I-GW 0.11542	7.76e2	17.0	YES
4	4	13C8-PFOA	1701385-07@10X B-I-GW 0.11542	3.57e3	15.2	YES
5	5	13C9-PFNA	1701385-07@10X B-I-GW 0.11542	3.96e3	17.7	YES
6	6	13C4-PFOS	1701385-07@10X B-I-GW 0.11542	7.93e2	15.8	YES
7	7	13C6-PFDA	1701385-07@10X B-I-GW 0.11542	3.99e3	16.6	YES
8	8	13C7-PFUnA	1701385-07@10X B-I-GW 0.11542	4.70e3	17.0	YES

Name: 171026M1\_37, Date: 26-Oct-2017, Time: 15:58:27, ID: 1701385-08@10X B-J-GW 0.11666, Description: B-J-GW

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701385-08@10X B-J-GW 0.11666	3.84e3	20.3	YES
2	2	13C5-PFHxA	1701385-08@10X B-J-GW 0.11666	5.15e3	19.6	YES
3	3	13C3-PFHxS	1701385-08@10X B-J-GW 0.11666	9.41e2	20.6	YES
4	4	13C8-PFOA	1701385-08@10X B-J-GW 0.11666	4.93e3	20.9	YES
5	5	13C9-PFNA	1701385-08@10X B-J-GW 0.11666	4.54e3	20.3	YES
6	6	13C4-PFOS	1701385-08@10X B-J-GW 0.11666	1.07e3	21.4	YES
7	7	13C6-PFDA	1701385-08@10X B-J-GW 0.11666	5.06e3	21.1	YES
8	8	13C7-PFUnA	1701385-08@10X B-J-GW 0.11666	5.13e3	18.5	YES

Name: 171026M1\_38, Date: 26-Oct-2017, Time: 16:09:38, 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			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO



Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

Name: 171026M1\_39, Date: 26-Oct-2017, Time: 16:20:49, ID: 1701505-01 Breastmilk #1 0.005, Description: Breastmilk #1

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701505-01 Breastmilk #1 0.005	7.46e3	78.9	NO
2	2 13C5-PFHxA	1701505-01 Breastmilk #1 0.005	1.09e4	83.2	NO
3	3 13C3-PFHxS	1701505-01 Breastmilk #1 0.005	2.00e3	87.5	NO
4	4 13C8-PFOA	1701505-01 Breastmilk #1 0.005	8.60e3	73.1	NO
5	5 13C9-PFNA	1701505-01 Breastmilk #1 0.005	8.27e3	74.0	NO
6	6 13C4-PFOS	1701505-01 Breastmilk #1 0.005	1.57e3	62.8	NO
7	7 13C6-PFDA	1701505-01 Breastmilk #1 0.005	5.84e3	48.6	YES
8	8 13C7-PFUnA	1701505-01 Breastmilk #1 0.005	6.79e3	49.0	YES

Name: 171026M1\_40, Date: 26-Oct-2017, Time: 16:32:00, ID: 1701505-02 Breastmilk #2 0.005, Description: Breastmilk #2

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701505-02 Breastmilk #2 0.005	7.65e3	80.9	NO
2	2 13C5-PFHxA	1701505-02 Breastmilk #2 0.005	1.06e4	81.0	NO
3	3 13C3-PFHxS	1701505-02 Breastmilk #2 0.005	1.89e3	82.6	NO
4	4 13C8-PFOA	1701505-02 Breastmilk #2 0.005	9.51e3	80.8	NO
5	5 13C9-PFNA	1701505-02 Breastmilk #2 0.005	7.59e3	67.9	NO
6	6 13C4-PFOS	1701505-02 Breastmilk #2 0.005	1.35e3	53.9	NO
7	7 13C6-PFDA	1701505-02 Breastmilk #2 0.005	4.96e3	41.4	YES
8	8 13C7-PFUnA	1701505-02 Breastmilk #2 0.005	4.45e3	32.1	YES

Name: 171026M1\_41, Date: 26-Oct-2017, Time: 16:43:10, 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-PFUnA	IPA			NO

Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171026M1-11 PFC CS3 17J1806	9.63e3	101.8	NO
2	2 13C5-PFHxA	ST171026M1-11 PFC CS3 17J1806	1.29e4	98.3	NO
3	3 13C3-PFHxS	ST171026M1-11 PFC CS3 17J1806	2.20e3	96.3	NO
4	4 13C8-PFOA	ST171026M1-11 PFC CS3 17J1806	1.15e4	98.0	NO
5	5 13C9-PFNA	ST171026M1-11 PFC CS3 17J1806	1.30e4	116.5	NO
6	6 13C4-PFOS	ST171026M1-11 PFC CS3 17J1806	2.66e3	105.9	NO
7	7 13C6-PFDA	ST171026M1-11 PFC CS3 17J1806	1.49e4	124.3	NO
8	8 13C7-PFUnA	ST171026M1-11 PFC CS3 17J1806	1.77e4	127.5	NO

Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time  
Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

**Name: 171026M1\_43, Date: 26-Oct-2017, Time: 17:05:32, 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			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUnA	IPA			NO

**Name: 171026M1\_44, Date: 26-Oct-2017, Time: 17:16:50, ID: 1701378-01 BRDLY-02-SB01-0-2 1.07, Description: BRDLY-02-SB01-0-2**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-01 BRDLY-02-SB01-0-2 1.07	7.82e3	82.7	NO
2	2	13C5-PFHxA	1701378-01 BRDLY-02-SB01-0-2 1.07	1.13e4	86.0	NO
3	3	13C3-PFHxS	1701378-01 BRDLY-02-SB01-0-2 1.07	2.11e3	92.4	NO
4	4	13C8-PFOA	1701378-01 BRDLY-02-SB01-0-2 1.07	9.27e3	78.8	NO
5	5	13C9-PFNA	1701378-01 BRDLY-02-SB01-0-2 1.07	9.39e3	84.0	NO
6	6	13C4-PFOS	1701378-01 BRDLY-02-SB01-0-2 1.07	1.95e3	77.7	NO
7	7	13C6-PFDA	1701378-01 BRDLY-02-SB01-0-2 1.07	8.88e3	74.0	NO
8	8	13C7-PFUnA	1701378-01 BRDLY-02-SB01-0-2 1.07	6.13e3	44.2	YES

**Name: 171026M1\_45, Date: 26-Oct-2017, Time: 17:28:15, ID: 1701378-02 BRDLY-02-SB01-13-15 1.2, Description: BRDLY-02-SB01-13-15**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-02 BRDLY-02-SB01-13-15 1.2	7.63e3	80.7	NO
2	2	13C5-PFHxA	1701378-02 BRDLY-02-SB01-13-15 1.2	1.06e4	80.9	NO
3	3	13C3-PFHxS	1701378-02 BRDLY-02-SB01-13-15 1.2	1.97e3	86.2	NO
4	4	13C8-PFOA	1701378-02 BRDLY-02-SB01-13-15 1.2	9.38e3	79.7	NO
5	5	13C9-PFNA	1701378-02 BRDLY-02-SB01-13-15 1.2	9.54e3	85.3	NO
6	6	13C4-PFOS	1701378-02 BRDLY-02-SB01-13-15 1.2	1.81e3	72.3	NO
7	7	13C6-PFDA	1701378-02 BRDLY-02-SB01-13-15 1.2	8.33e3	69.4	NO
8	8	13C7-PFUnA	1701378-02 BRDLY-02-SB01-13-15 1.2	4.69e3	33.9	YES

**Name: 171026M1\_46, Date: 26-Oct-2017, Time: 17:39:56, ID: 1701378-03 BRDLY-02-SB02-0-2 1.08, Description: BRDLY-02-SB02-0-2**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-03 BRDLY-02-SB02-0-2 1.08	7.13e3	75.3	NO
2	2	13C5-PFHxA	1701378-03 BRDLY-02-SB02-0-2 1.08	1.02e4	77.7	NO
3	3	13C3-PFHxS	1701378-03 BRDLY-02-SB02-0-2 1.08	2.15e3	94.0	NO
4	4	13C8-PFOA	1701378-03 BRDLY-02-SB02-0-2 1.08	1.07e4	90.6	NO
5	5	13C9-PFNA	1701378-03 BRDLY-02-SB02-0-2 1.08	9.78e3	87.5	NO
6	6	13C4-PFOS	1701378-03 BRDLY-02-SB02-0-2 1.08	2.59e3	103.4	NO
7	7	13C6-PFDA	1701378-03 BRDLY-02-SB02-0-2 1.08	1.07e4	89.3	NO
8	8	13C7-PFUnA	1701378-03 BRDLY-02-SB02-0-2 1.08	1.09e4	79.1	NO

Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

**Name: 171026M1\_47, Date: 26-Oct-2017, Time: 17:51:07, ID: 1701378-04 BRDLY-02-SB02-13-15 1.29,**  
**Description: BRDLY-02-SB02-13-15**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-04 BRDLY-02-SB02-13-15 1.29	8.42e3	88.9	NO
2	2	13C5-PFHxA	1701378-04 BRDLY-02-SB02-13-15 1.29	1.13e4	86.4	NO
3	3	13C3-PFHxS	1701378-04 BRDLY-02-SB02-13-15 1.29	2.37e3	103.9	NO
4	4	13C8-PFOA	1701378-04 BRDLY-02-SB02-13-15 1.29	1.07e4	91.1	NO
5	5	13C9-PFNA	1701378-04 BRDLY-02-SB02-13-15 1.29	1.17e4	104.6	NO
6	6	13C4-PFOS	1701378-04 BRDLY-02-SB02-13-15 1.29	1.99e3	79.3	NO
7	7	13C6-PFDA	1701378-04 BRDLY-02-SB02-13-15 1.29	1.02e4	85.0	NO
8	8	13C7-PFUnA	1701378-04 BRDLY-02-SB02-13-15 1.29	6.58e3	47.5	YES

**Name: 171026M1\_48, Date: 26-Oct-2017, Time: 18:02:17, ID: 1701378-05 BRDLY-02-SB03-0-2 1.08,**  
**Description: BRDLY-02-SB03-0-2**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-05 BRDLY-02-SB03-0-2 1.08	7.98e3	84.3	NO
2	2	13C5-PFHxA	1701378-05 BRDLY-02-SB03-0-2 1.08	1.07e4	81.9	NO
3	3	13C3-PFHxS	1701378-05 BRDLY-02-SB03-0-2 1.08	2.01e3	87.8	NO
4	4	13C8-PFOA	1701378-05 BRDLY-02-SB03-0-2 1.08	9.50e3	80.8	NO
5	5	13C9-PFNA	1701378-05 BRDLY-02-SB03-0-2 1.08	9.92e3	88.8	NO
6	6	13C4-PFOS	1701378-05 BRDLY-02-SB03-0-2 1.08	2.12e3	84.7	NO
7	7	13C6-PFDA	1701378-05 BRDLY-02-SB03-0-2 1.08	8.99e3	74.9	NO
8	8	13C7-PFUnA	1701378-05 BRDLY-02-SB03-0-2 1.08	6.93e3	50.0	NO

**Name: 171026M1\_49, Date: 26-Oct-2017, Time: 18:13:28, ID: 1701378-06 BRDLY-02-SB03-13-15 1.17,**  
**Description: BRDLY-02-SB03-13-15**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-06 BRDLY-02-SB03-13-15 1.17	7.11e3	75.2	NO
2	2	13C5-PFHxA	1701378-06 BRDLY-02-SB03-13-15 1.17	9.68e3	73.9	NO
3	3	13C3-PFHxS	1701378-06 BRDLY-02-SB03-13-15 1.17	2.01e3	88.1	NO
4	4	13C8-PFOA	1701378-06 BRDLY-02-SB03-13-15 1.17	9.18e3	78.1	NO
5	5	13C9-PFNA	1701378-06 BRDLY-02-SB03-13-15 1.17	8.22e3	73.5	NO
6	6	13C4-PFOS	1701378-06 BRDLY-02-SB03-13-15 1.17	1.55e3	62.0	NO
7	7	13C6-PFDA	1701378-06 BRDLY-02-SB03-13-15 1.17	8.42e3	70.2	NO
8	8	13C7-PFUnA	1701378-06 BRDLY-02-SB03-13-15 1.17	5.47e3	39.5	YES

**Name: 171026M1\_50, Date: 26-Oct-2017, Time: 18:24:38, ID: 1701378-07 BRDLY-05-SB01-0-2 1.08,**  
**Description: BRDLY-05-SB01-0-2**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-07 BRDLY-05-SB01-0-2 1.08	7.93e3	83.8	NO
2	2	13C5-PFHxA	1701378-07 BRDLY-05-SB01-0-2 1.08	1.07e4	81.5	NO
3	3	13C3-PFHxS	1701378-07 BRDLY-05-SB01-0-2 1.08	2.22e3	97.1	NO
4	4	13C8-PFOA	1701378-07 BRDLY-05-SB01-0-2 1.08	1.03e4	87.6	NO
5	5	13C9-PFNA	1701378-07 BRDLY-05-SB01-0-2 1.08	1.03e4	92.1	NO
6	6	13C4-PFOS	1701378-07 BRDLY-05-SB01-0-2 1.08	2.29e3	91.2	NO
7	7	13C6-PFDA	1701378-07 BRDLY-05-SB01-0-2 1.08	1.01e4	83.9	NO
8	8	13C7-PFUnA	1701378-07 BRDLY-05-SB01-0-2 1.08	9.15e3	66.1	NO

Dataset: Untitled

Last Altered: Friday, October 27, 2017 15:35:32 Pacific Daylight Time

Printed: Friday, October 27, 2017 15:36:12 Pacific Daylight Time

**Name: 171026M1\_51, Date: 26-Oct-2017, Time: 18:35:49, ID: 1701378-08 BRDLY-05-SB02-0-2 1.07,**  
**Description: BRDLY-05-SB02-0-2**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-08 BRDLY-05-SB02-0-2 1.07	7.24e3	76.5	NO
2	2	13C5-PFHxA	1701378-08 BRDLY-05-SB02-0-2 1.07	9.77e3	74.6	NO
3	3	13C3-PFHxS	1701378-08 BRDLY-05-SB02-0-2 1.07	1.87e3	81.8	NO
4	4	13C8-PFOA	1701378-08 BRDLY-05-SB02-0-2 1.07	8.59e3	73.0	NO
5	5	13C9-PFNA	1701378-08 BRDLY-05-SB02-0-2 1.07	1.12e4	100.4	NO
6	6	13C4-PFOS	1701378-08 BRDLY-05-SB02-0-2 1.07	2.22e3	88.5	NO
7	7	13C6-PFDA	1701378-08 BRDLY-05-SB02-0-2 1.07	9.53e3	79.4	NO
8	8	13C7-PFUnA	1701378-08 BRDLY-05-SB02-0-2 1.07	9.29e3	67.1	NO

**Name: 171026M1\_52, Date: 26-Oct-2017, Time: 18:47:00, ID: 1701378-09 BRDLY-05-SB02-9-11 1.07,**  
**Description: BRDLY-05-SB02-9-11**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-09 BRDLY-05-SB02-9-11 1.07	8.09e3	85.5	NO
2	2	13C5-PFHxA	1701378-09 BRDLY-05-SB02-9-11 1.07	1.08e4	82.4	NO
3	3	13C3-PFHxS	1701378-09 BRDLY-05-SB02-9-11 1.07	1.97e3	86.4	NO
4	4	13C8-PFOA	1701378-09 BRDLY-05-SB02-9-11 1.07	9.21e3	78.3	NO
5	5	13C9-PFNA	1701378-09 BRDLY-05-SB02-9-11 1.07	1.03e4	91.7	NO
6	6	13C4-PFOS	1701378-09 BRDLY-05-SB02-9-11 1.07	2.06e3	82.1	NO
7	7	13C6-PFDA	1701378-09 BRDLY-05-SB02-9-11 1.07	9.53e3	79.4	NO
8	8	13C7-PFUnA	1701378-09 BRDLY-05-SB02-9-11 1.07	5.93e3	42.9	YES

**Name: 171026M1\_53, Date: 26-Oct-2017, Time: 18:58:11, ID: 1701378-10 BRDLY-05-SB03-0-2 1.05,**  
**Description: BRDLY-05-SB03-0-2**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-10 BRDLY-05-SB03-0-2 1.05	7.07e3	74.7	NO
2	2	13C5-PFHxA	1701378-10 BRDLY-05-SB03-0-2 1.05	9.56e3	72.9	NO
3	3	13C3-PFHxS	1701378-10 BRDLY-05-SB03-0-2 1.05	1.84e3	80.5	NO
4	4	13C8-PFOA	1701378-10 BRDLY-05-SB03-0-2 1.05	8.19e3	69.6	NO
5	5	13C9-PFNA	1701378-10 BRDLY-05-SB03-0-2 1.05	9.31e3	83.3	NO
6	6	13C4-PFOS	1701378-10 BRDLY-05-SB03-0-2 1.05	2.04e3	81.4	NO
7	7	13C6-PFDA	1701378-10 BRDLY-05-SB03-0-2 1.05	1.01e4	84.1	NO
8	8	13C7-PFUnA	1701378-10 BRDLY-05-SB03-0-2 1.05	9.38e3	67.8	NO

**Name: 171026M1\_54, Date: 26-Oct-2017, Time: 19:09:21, 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-PFUnA	IPA			NO

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Name: 171026M1\_55, Date: 26-Oct-2017, Time: 19:20:33, ID: ST171026M1-12 PFC CS3 17J1806, Description: PFC CS3 17J1806

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171026M1-12 PFC CS3 17J1806	9.88e3	104.4	NO
2	2	13C5-PFHxA	ST171026M1-12 PFC CS3 17J1806	1.32e4	100.7	NO
3	3	13C3-PFHxS	ST171026M1-12 PFC CS3 17J1806	2.41e3	105.5	NO
4	4	13C8-PFOA	ST171026M1-12 PFC CS3 17J1806	1.20e4	102.1	NO
5	5	13C9-PFNA	ST171026M1-12 PFC CS3 17J1806	1.30e4	116.2	NO
6	6	13C4-PFOS	ST171026M1-12 PFC CS3 17J1806	2.89e3	115.2	NO
7	7	13C6-PFDA	ST171026M1-12 PFC CS3 17J1806	1.50e4	124.7	NO
8	8	13C7-PFUnA	ST171026M1-12 PFC CS3 17J1806	1.91e4	137.9	NO

Name: 171026M1\_56, Date: 26-Oct-2017, Time: 19:31:43, 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-PFUnA	IPA			NO

Name: 171026M1\_57, Date: 26-Oct-2017, Time: 19:42:53, ID: 1701378-11 BRDLY-05-SB03-9-11 1.38, Description: BRDLY-05-SB03-9-11

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-11 BRDLY-05-SB03-9-11 1.38	6.92e3	73.2	NO
2	2	13C5-PFHxA	1701378-11 BRDLY-05-SB03-9-11 1.38	9.77e3	74.6	NO
3	3	13C3-PFHxS	1701378-11 BRDLY-05-SB03-9-11 1.38	1.96e3	85.6	NO
4	4	13C8-PFOA	1701378-11 BRDLY-05-SB03-9-11 1.38	7.62e3	64.8	NO
5	5	13C9-PFNA	1701378-11 BRDLY-05-SB03-9-11 1.38	9.02e3	80.7	NO
6	6	13C4-PFOS	1701378-11 BRDLY-05-SB03-9-11 1.38	1.54e3	61.5	NO
7	7	13C6-PFDA	1701378-11 BRDLY-05-SB03-9-11 1.38	5.96e3	49.6	YES
8	8	13C7-PFUnA	1701378-11 BRDLY-05-SB03-9-11 1.38	3.42e3	24.7	YES

Name: 171026M1\_58, Date: 26-Oct-2017, Time: 19:54:04, ID: 1701378-13 BRDLY-03-SB03-0-2 1.13, Description: BRDLY-03-SB03-0-2

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-13 BRDLY-03-SB03-0-2 1.13	7.09e3	75.0	NO
2	2	13C5-PFHxA	1701378-13 BRDLY-03-SB03-0-2 1.13	9.41e3	71.8	NO
3	3	13C3-PFHxS	1701378-13 BRDLY-03-SB03-0-2 1.13	1.98e3	86.6	NO
4	4	13C8-PFOA	1701378-13 BRDLY-03-SB03-0-2 1.13	9.65e3	82.0	NO
5	5	13C9-PFNA	1701378-13 BRDLY-03-SB03-0-2 1.13	1.10e4	98.8	NO
6	6	13C4-PFOS	1701378-13 BRDLY-03-SB03-0-2 1.13	2.15e3	85.9	NO
7	7	13C6-PFDA	1701378-13 BRDLY-03-SB03-0-2 1.13	1.13e4	94.3	NO
8	8	13C7-PFUnA	1701378-13 BRDLY-03-SB03-0-2 1.13	1.23e4	88.6	NO

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**Name: 171026M1\_59, Date: 26-Oct-2017, Time: 20:05:15, ID: 1701378-14 BRDLY-05-SB01-9-11 1.15,**  
**Description: BRDLY-05-SB01-9-11**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701378-14 BRDLY-05-SB01-9-11 1.15	7.71e3	81.4	NO
2	2	13C5-PFHxA	1701378-14 BRDLY-05-SB01-9-11 1.15	1.03e4	78.2	NO
3	3	13C3-PFHxS	1701378-14 BRDLY-05-SB01-9-11 1.15	2.14e3	93.5	NO
4	4	13C8-PFOA	1701378-14 BRDLY-05-SB01-9-11 1.15	9.66e3	82.1	NO
5	5	13C9-PFNA	1701378-14 BRDLY-05-SB01-9-11 1.15	1.10e4	98.0	NO
6	6	13C4-PFOS	1701378-14 BRDLY-05-SB01-9-11 1.15	2.09e3	83.3	NO
7	7	13C6-PFDA	1701378-14 BRDLY-05-SB01-9-11 1.15	9.36e3	78.0	NO
8	8	13C7-PFUnA	1701378-14 BRDLY-05-SB01-9-11 1.15	7.46e3	53.9	NO

**Name: 171026M1\_60, Date: 26-Oct-2017, Time: 20:16:25, ID: 1701411-01 BRDLY-03-SB03-11-13 1.21,**  
**Description: BRDLY-03-SB03-11-13**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701411-01 BRDLY-03-SB03-11-13 1.21	8.44e3	89.2	NO
2	2	13C5-PFHxA	1701411-01 BRDLY-03-SB03-11-13 1.21	1.14e4	87.2	NO
3	3	13C3-PFHxS	1701411-01 BRDLY-03-SB03-11-13 1.21	2.17e3	95.2	NO
4	4	13C8-PFOA	1701411-01 BRDLY-03-SB03-11-13 1.21	1.00e4	85.2	NO
5	5	13C9-PFNA	1701411-01 BRDLY-03-SB03-11-13 1.21	1.06e4	94.6	NO
6	6	13C4-PFOS	1701411-01 BRDLY-03-SB03-11-13 1.21	2.01e3	80.2	NO
7	7	13C6-PFDA	1701411-01 BRDLY-03-SB03-11-13 1.21	1.04e4	86.7	NO
8	8	13C7-PFUnA	1701411-01 BRDLY-03-SB03-11-13 1.21	9.15e3	66.1	NO

**Name: 171026M1\_61, Date: 26-Oct-2017, Time: 20:27:36, ID: 1701429-02 H1-SB-135-0'-2'-1017 1.2,**  
**Description: H1-SB-135-0'-2'-1017**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701429-02 H1-SB-135-0'-2'-1017 1.2	7.05e3	74.5	NO
2	2	13C5-PFHxA	1701429-02 H1-SB-135-0'-2'-1017 1.2	9.42e3	71.8	NO
3	3	13C3-PFHxS	1701429-02 H1-SB-135-0'-2'-1017 1.2	1.99e3	87.2	NO
4	4	13C8-PFOA	1701429-02 H1-SB-135-0'-2'-1017 1.2	9.33e3	79.3	NO
5	5	13C9-PFNA	1701429-02 H1-SB-135-0'-2'-1017 1.2	1.07e4	95.6	NO
6	6	13C4-PFOS	1701429-02 H1-SB-135-0'-2'-1017 1.2	2.26e3	90.2	NO
7	7	13C6-PFDA	1701429-02 H1-SB-135-0'-2'-1017 1.2	1.02e4	85.3	NO
8	8	13C7-PFUnA	1701429-02 H1-SB-135-0'-2'-1017 1.2	1.03e4	74.3	NO

**Name: 171026M1\_62, Date: 26-Oct-2017, Time: 20:38:47, ID: 1701429-03 H1-SB-136-0'-2'-1017 1.14,**  
**Description: H1-SB-136-0'-2'-1017**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701429-03 H1-SB-136-0'-2'-1017 1.14	7.97e3	84.2	NO
2	2	13C5-PFHxA	1701429-03 H1-SB-136-0'-2'-1017 1.14	1.06e4	80.5	NO
3	3	13C3-PFHxS	1701429-03 H1-SB-136-0'-2'-1017 1.14	2.02e3	88.5	NO
4	4	13C8-PFOA	1701429-03 H1-SB-136-0'-2'-1017 1.14	9.70e3	82.4	NO
5	5	13C9-PFNA	1701429-03 H1-SB-136-0'-2'-1017 1.14	1.04e4	93.3	NO
6	6	13C4-PFOS	1701429-03 H1-SB-136-0'-2'-1017 1.14	2.10e3	83.7	NO
7	7	13C6-PFDA	1701429-03 H1-SB-136-0'-2'-1017 1.14	1.04e4	86.5	NO
8	8	13C7-PFUnA	1701429-03 H1-SB-136-0'-2'-1017 1.14	1.02e4	73.6	NO

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**Name: 171026M1\_63, Date: 26-Oct-2017, Time: 20:49:57, ID: 1701429-04 H1-SB-137-0'-2'-1017 1.18, Description: H1-SB-137-0'-2'-1017**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701429-04 H1-SB-137-0'-2'-1017 1.18	7.73e3	81.7	NO
2	2	13C5-PFHxA	1701429-04 H1-SB-137-0'-2'-1017 1.18	1.11e4	84.6	NO
3	3	13C3-PFHxS	1701429-04 H1-SB-137-0'-2'-1017 1.18	2.16e3	94.7	NO
4	4	13C8-PFOA	1701429-04 H1-SB-137-0'-2'-1017 1.18	9.70e3	82.4	NO
5	5	13C9-PFNA	1701429-04 H1-SB-137-0'-2'-1017 1.18	1.07e4	95.7	NO
6	6	13C4-PFOS	1701429-04 H1-SB-137-0'-2'-1017 1.18	1.97e3	78.7	NO
7	7	13C6-PFDA	1701429-04 H1-SB-137-0'-2'-1017 1.18	9.87e3	82.2	NO
8	8	13C7-PFUnA	1701429-04 H1-SB-137-0'-2'-1017 1.18	6.98e3	50.4	NO

**Name: 171026M1\_64, Date: 26-Oct-2017, Time: 21:01:09, ID: 1701429-05 H1-SB-138-0'-2'-1017 1.1, Description: H1-SB-138-0'-2'-1017**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701429-05 H1-SB-138-0'-2'-1017 1.1	6.86e3	72.5	NO
2	2	13C5-PFHxA	1701429-05 H1-SB-138-0'-2'-1017 1.1	9.17e3	70.0	NO
3	3	13C3-PFHxS	1701429-05 H1-SB-138-0'-2'-1017 1.1	1.88e3	82.4	NO
4	4	13C8-PFOA	1701429-05 H1-SB-138-0'-2'-1017 1.1	7.11e3	60.4	NO
5	5	13C9-PFNA	1701429-05 H1-SB-138-0'-2'-1017 1.1	9.04e3	80.9	NO
6	6	13C4-PFOS	1701429-05 H1-SB-138-0'-2'-1017 1.1	1.87e3	74.8	NO
7	7	13C6-PFDA	1701429-05 H1-SB-138-0'-2'-1017 1.1	6.33e3	52.7	NO
8	8	13C7-PFUnA	1701429-05 H1-SB-138-0'-2'-1017 1.1	1.15e4	83.3	NO

**Name: 171026M1\_65, Date: 26-Oct-2017, Time: 21:12:19, ID: 1701426-05RE1@5x FOAM1710050900JNR 0.00104, Description: FOAM1710050900JNR**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701426-05RE1@5x FOAM171005090...	4.24e3	44.9	YES
2	2	13C5-PFHxA	1701426-05RE1@5x FOAM171005090...	5.65e3	43.1	YES
3	3	13C3-PFHxS	1701426-05RE1@5x FOAM171005090...	1.09e3	47.8	YES
4	4	13C8-PFOA	1701426-05RE1@5x FOAM171005090...	5.30e3	45.1	YES
5	5	13C9-PFNA	1701426-05RE1@5x FOAM171005090...	5.85e3	52.3	NO
6	6	13C4-PFOS	1701426-05RE1@5x FOAM171005090...	1.12e3	44.6	YES
7	7	13C6-PFDA	1701426-05RE1@5x FOAM171005090...	5.94e3	49.5	YES
8	8	13C7-PFUnA	1701426-05RE1@5x FOAM171005090...	7.58e3	54.8	NO

**Name: 171026M1\_66, Date: 26-Oct-2017, Time: 21:23:30, 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-PFUnA	IPA			NO

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Name: 171026M1\_67, Date: 26-Oct-2017, Time: 21:34:41, ID: ST171026M1-13 PFC CS3 17J1806, Description: PFC CS3 17J1806

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171026M1-13 PFC CS3 17J1806	1.02e4	108.3	NO
2	2	13C5-PFHxA	ST171026M1-13 PFC CS3 17J1806	1.37e4	104.2	NO
3	3	13C3-PFHxS	ST171026M1-13 PFC CS3 17J1806	2.65e3	116.0	NO
4	4	13C8-PFOA	ST171026M1-13 PFC CS3 17J1806	1.25e4	105.9	NO
5	5	13C9-PFNA	ST171026M1-13 PFC CS3 17J1806	1.35e4	121.1	NO
6	6	13C4-PFOS	ST171026M1-13 PFC CS3 17J1806	2.64e3	105.3	NO
7	7	13C6-PFDA	ST171026M1-13 PFC CS3 17J1806	1.39e4	116.2	NO
8	8	13C7-PFUnA	ST171026M1-13 PFC CS3 17J1806	1.73e4	124.8	NO

Name: 171026M1\_68, Date: 26-Oct-2017, Time: 21:45:51, 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-PFUnA	IPA			NO



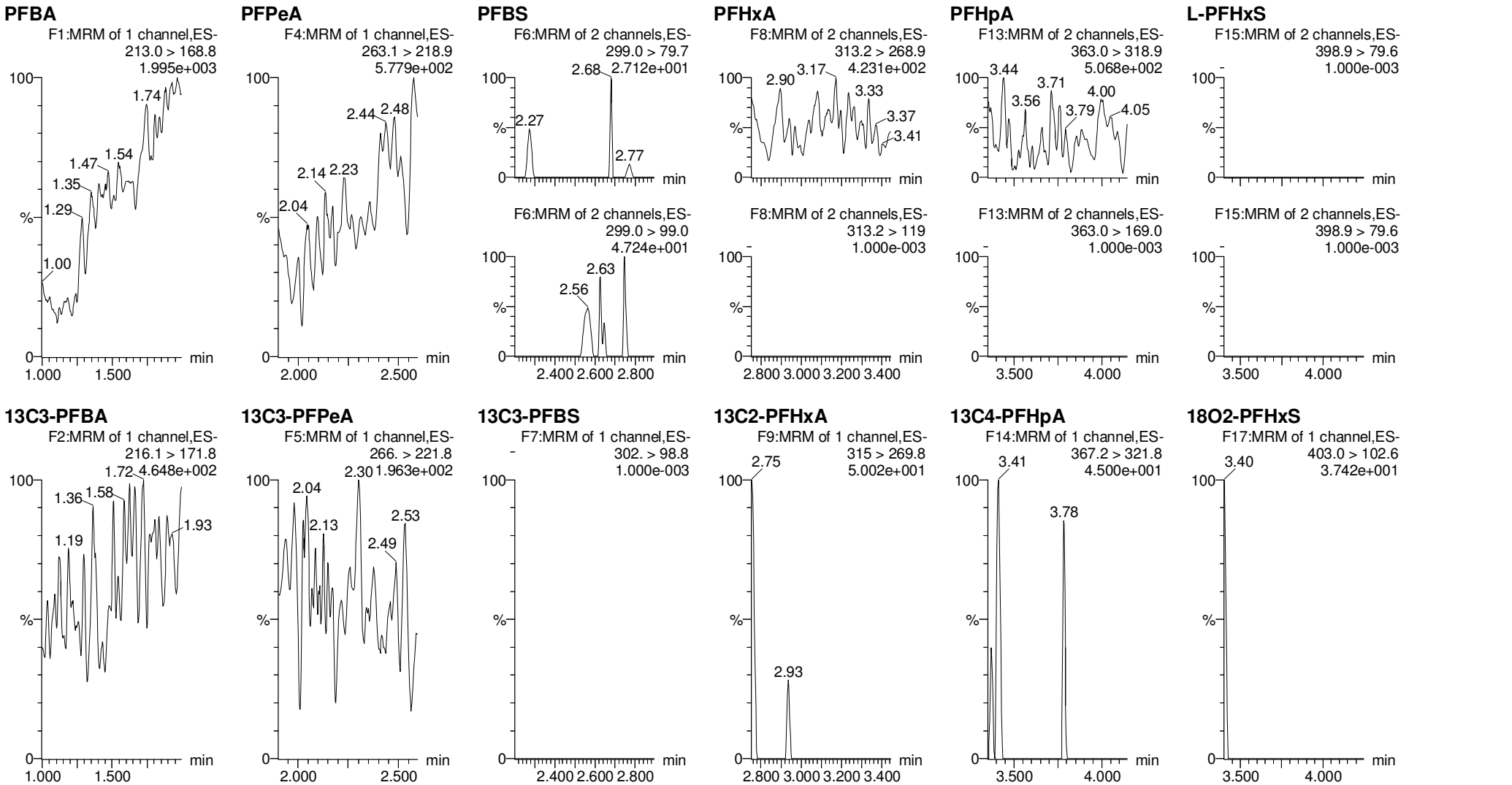
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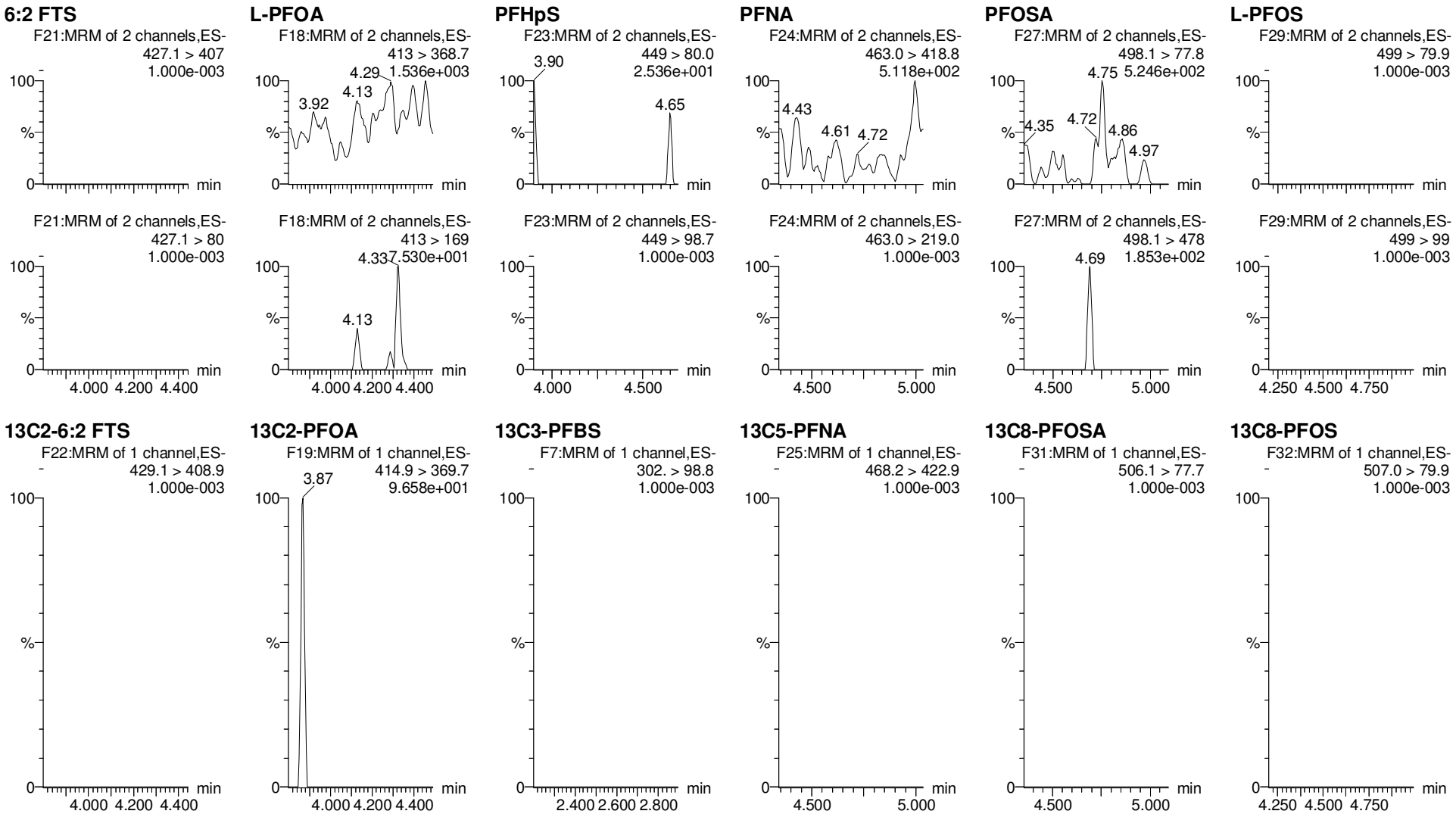
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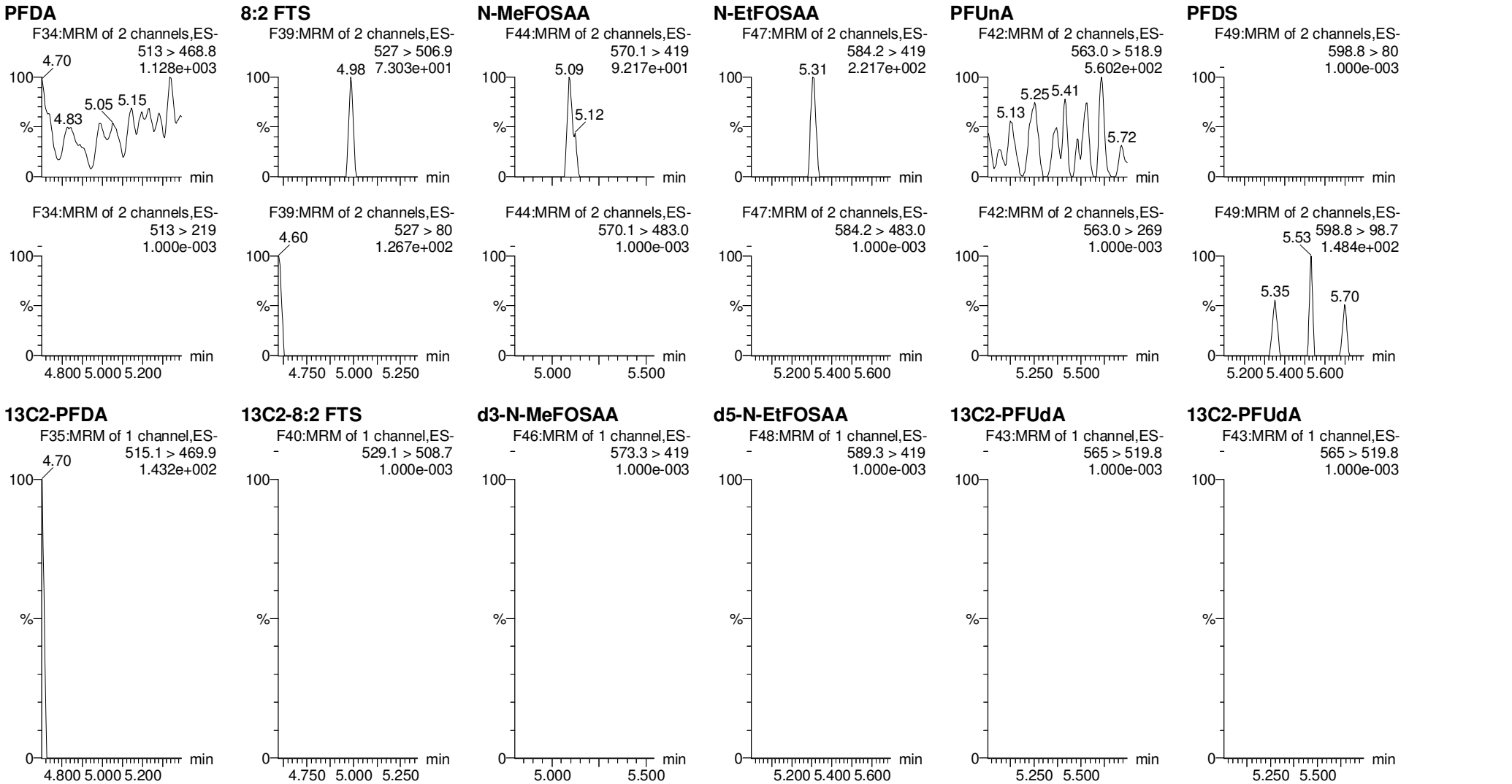


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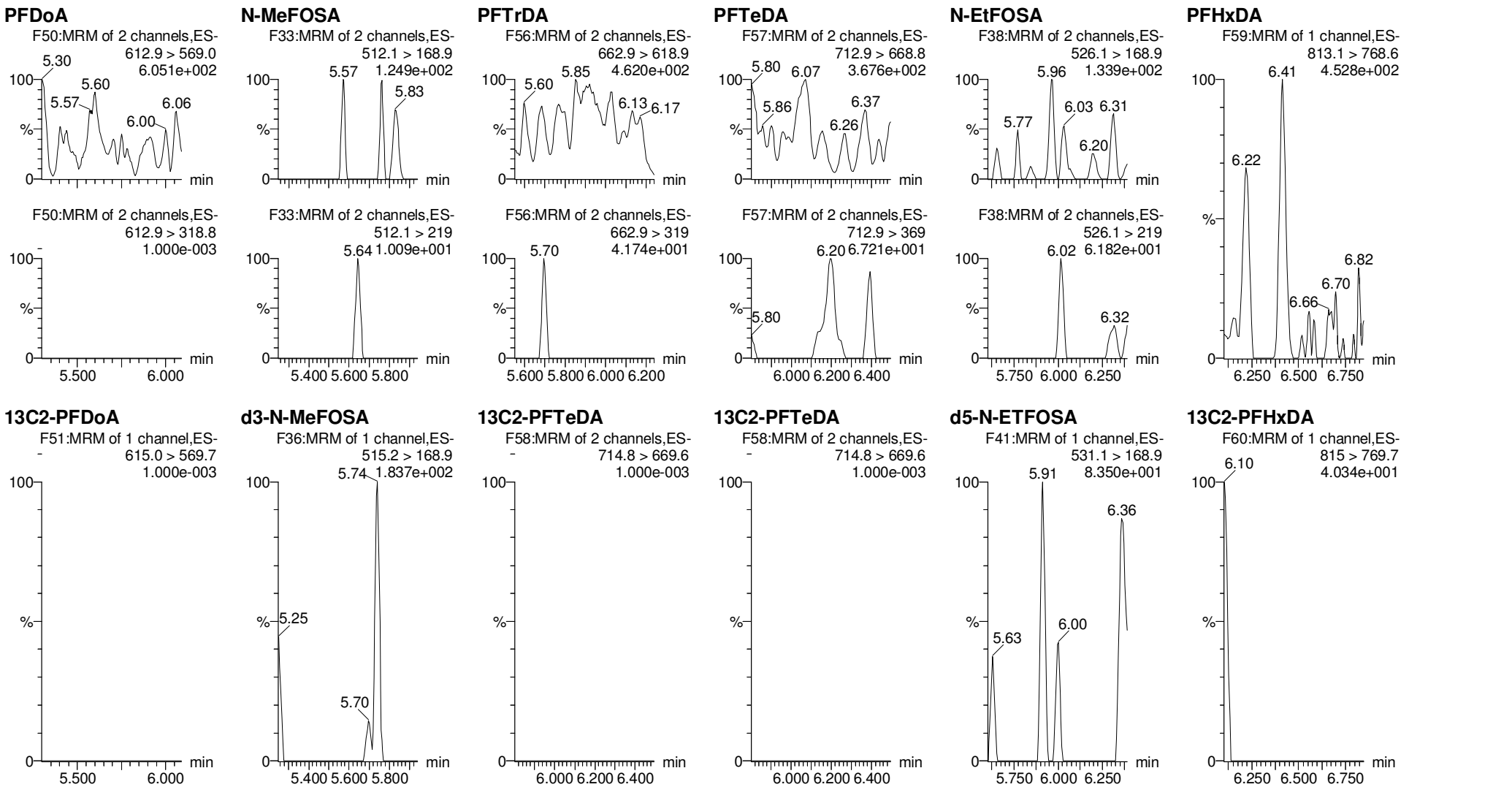


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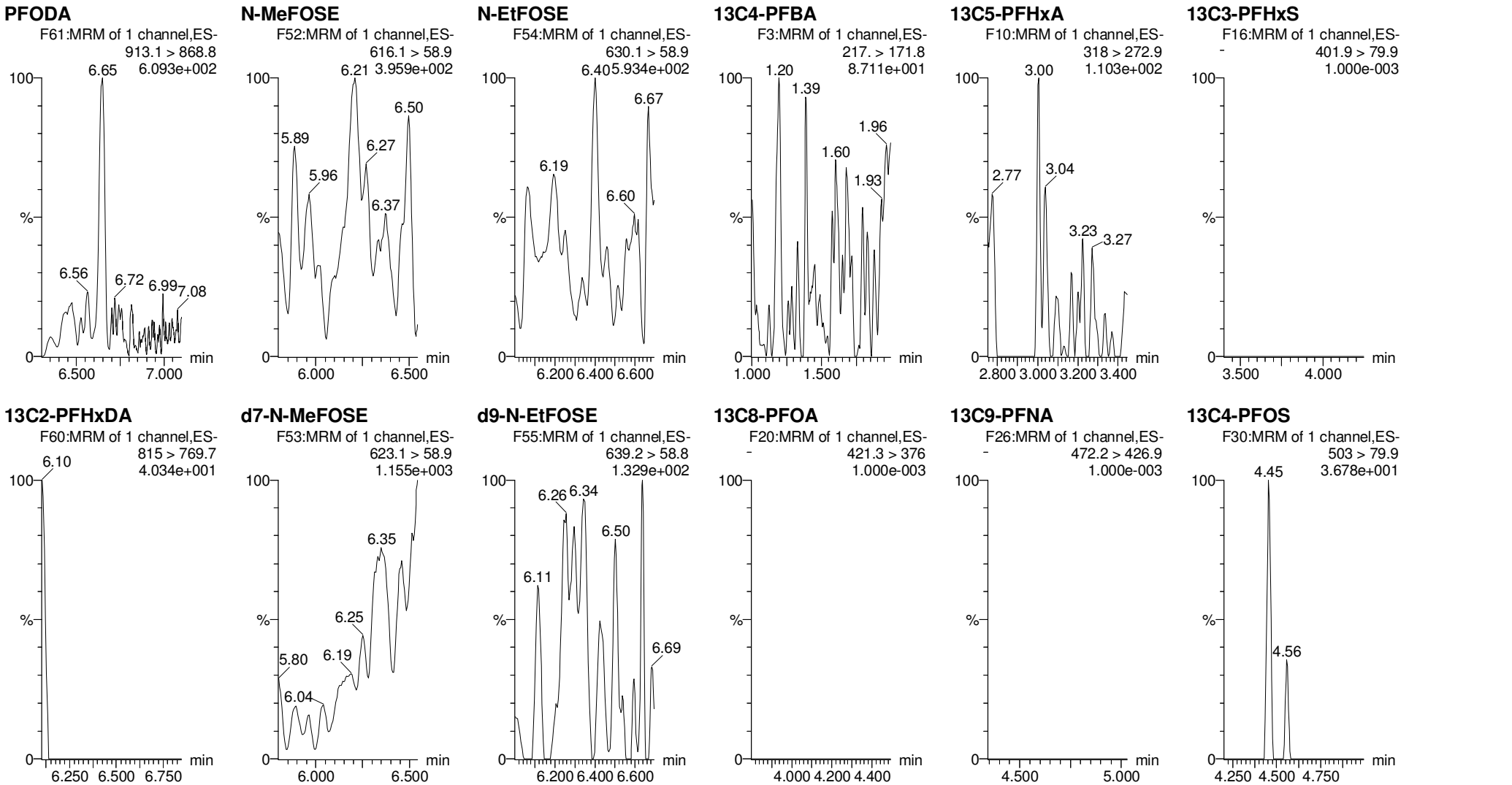


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Printed:        Thursday, October 26, 2017 16:59:18 Pacific Daylight Time

Name: 171026M1\_12, Date: 26-Oct-2017, Time: 11:18:50, ID: IPA, Description: IPA



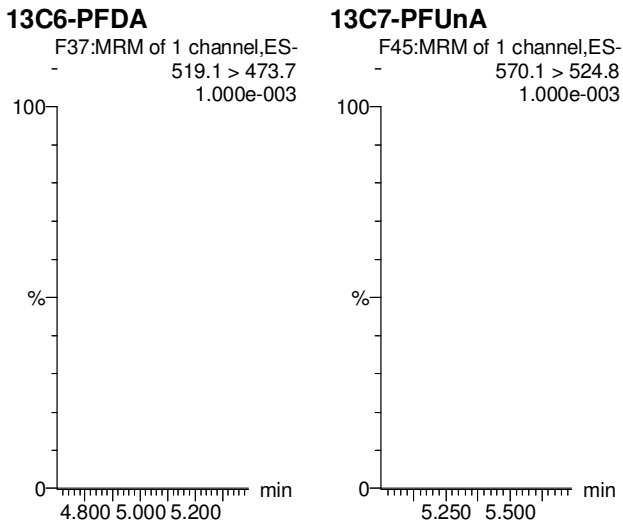
Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Thursday, October 26, 2017 16:58:39 Pacific Daylight Time

Printed:        Thursday, October 26, 2017 16:59:18 Pacific Daylight Time

**Name: 171026M1\_12, Date: 26-Oct-2017, Time: 11:18:50, ID: IPA, Description: IPA**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-42.qld

Last Altered: Friday, October 27, 2017 10:51:51 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:52:07 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 10:03:44

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

Ⓐ Above limit concentration

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.56e3	8.95e3		1.32	1.22	13.4	10.7	106.7
2	2 PFPeA	263.1 > 218.9	9.69e3	9.79e3		2.31	2.20	12.4	10.7	107.2
3	3 PFBS	299.0 > 79.7	2.34e3	1.22e3		2.59	2.50	23.9	9.82	98.2
4	4 PFHxA	313.2 > 268.9	1.42e4	3.89e3		3.08	2.99	18.2	10.9	109.2
5	5 PFHpA	363.0 > 318.9	1.20e4	9.39e3		3.70	3.61	15.9	10.5	105.2
6	6 L-PFHxS	398.9 > 79.6	2.02e3	9.52e2		3.86	3.77	26.5	11.0	109.5
7	8 6:2 FTS	427.1 > 407	2.63e3	2.78e3		4.18	4.09	11.8	11.5	115.4
8	9 L-PFOA	413 > 368.7	1.35e4	1.29e4		4.23	4.14	13.1	11.4	113.8
9	11 PFHpS	449 > 80.0	2.34e3	1.29e4		4.34	4.26	2.27	11.0	110.2
10	12 PFNA	463.0 > 418.8	1.50e4	1.17e4		4.67	4.59	16.0	11.1	110.5
11	13 PFOSA	498.1 > 77.8	3.83e3	3.74e3		4.72	4.64	12.8	11.0	109.9
12	14 L-PFOS	499 > 79.9	2.39e3	2.79e3		4.76	4.68	10.7	9.29	92.9
13	16 PFDA	513 > 468.8	1.87e4	1.37e4		5.05	4.97	17.0	12.6	125.9
14	17 8:2 FTS	527 > 506.9	3.10e3	2.41e3		5.03	4.94	16.1	12.1	121.2
15	18 N-MeFOSAA	570.1 > 419	7.81e3	5.29e3		5.21	5.13	18.5	11.7	116.8
16	19 N-EtFOSAA	584.2 > 419	6.38e3	5.40e3		5.37	5.29	14.8	11.7	116.5
17	20 PFUnA	563.0 > 518.9	1.69e4	1.61e4		5.38	5.30	13.1	11.5	114.9
18	21 PFDS	598.8 > 80	3.47e3	1.61e4		5.43	5.36	2.70	13.8	137.8
19	22 PFDoA	612.9 > 569.0	2.16e4	1.67e4		5.67	5.59	16.2	12.8	128.2
20	23 N-MeFOSA	512.1 > 168.9	5.74e3	1.35e4		5.63	5.59	64.0	52.8	105.5
21	24 PFTrDA	662.9 > 618.9	2.30e4	1.67e4		5.92	5.85	17.3	12.9	128.7
22	25 PFTeDA	712.9 > 668.8	1.82e4	1.43e4		6.13	6.06	16.0	9.74	97.4
23	26 N-EtFOSA	526.1 > 168.9	6.68e3	1.95e4		6.04	6.03	51.4	50.7	101.3
24	27 PFHxDA	813.1 > 768.6	5.50e3	2.88e3		6.46	6.40	9.55	13.0	129.7
25	29 N-MeFOSE	616.1 > 58.9	9.78e3	2.31e4		6.23	6.24	63.5	59.2	118.4
26	30 N-EtFOSE	630.1 > 58.9	9.95e3	2.00e4		6.39	6.40	74.5	57.7	115.4
27	31 13C3-PFBA	216.1 > 171.8	8.95e3	9.63e3	0.928	1.33	1.22	11.6	12.5	100.2
28	32 13C3-PFPeA	266. > 221.8	9.79e3	1.29e4	0.757	2.31	2.20	9.50	12.5	100.4
29	33 13C3-PFBS	302. > 98.8	1.22e3	1.29e4	0.091	2.59	2.50	1.19	13.1	104.6
30	34 13C2-PFHxA	315 > 269.8	3.89e3	1.29e4	0.739	3.08	2.99	3.77	5.10	102.0
31	35 13C4-PFHxA	367.2 > 321.8	9.39e3	1.29e4	0.684	3.70	3.61	9.11	13.3	106.6

70-130

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✓ JHA.  
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50-150

Dataset: U:\Q4.PRO\results\171026M1\171026M1-42.qld

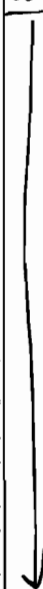
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Printed: Friday, October 27, 2017 10:52:07 Pacific Daylight Time

Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	36 18O2-PFHxS	403.0 > 102.6	9.52e2	2.20e3	0.412	3.85	3.77	5.40	13.1	104.7
33	37 13C2-6:2 FTS	429.1 > 408.9	2.78e3	1.15e4	0.248	4.18	4.08	3.01	12.1	97.2
34	38 13C2-PFOA	414.9 > 369.7	1.29e4	1.15e4	1.120	4.23	4.15	13.9	12.4	99.6
35	39 13C5-PFNA	468.2 > 422.9	1.17e4	1.30e4	0.929	4.67	4.59	11.2	12.1	96.9
36	40 13C8-PFOSA	506.1 > 77.7	3.74e3	1.77e4	0.246	4.72	4.64	2.65	10.7	85.9
37	41 13C8-PFOS	507.0 > 79.9	2.79e3	2.66e3	1.027	4.76	4.67	13.1	12.8	102.1
38	42 13C2-PFDA	515.1 > 469.9	1.37e4	1.49e4	0.946	5.05	4.97	11.5	12.2	97.4
39	43 13C2-8:2 FTS	529.1 > 508.7	2.41e3	1.49e4	0.171	5.03	4.94	2.02	11.8	94.3
40	44 d3-N-MeFOSAA	573.3 > 419	5.29e3	1.77e4	0.358	5.20	5.12	3.74	10.5	83.7
41	45 d5-N-EtFOSAA	589.3 > 419	5.40e3	1.77e4	0.360	5.36	5.28	3.82	10.6	84.9
42	46 13C2-PFUdA	565 > 519.8	1.61e4	1.77e4	1.045	5.38	5.30	11.4	10.9	87.1
43	47 13C2-PFDoA	615.0 > 569.7	1.67e4	1.77e4	1.141	5.67	5.59	11.8	10.3	82.7
44	48 d3-N-MeFOSA	515.2 > 168.9	1.35e4	1.77e4	0.093	5.65	5.62	9.53	102	68.0
45	49 13C2-PFTeDA	714.8 > 669.6	1.43e4	1.77e4	0.934	6.13	6.07	10.1	10.8	86.6
46	50 d5-N-ETFOSA	531.1 > 168.9	1.95e4	1.77e4	0.132	6.06	6.04	13.8	105	69.7
47	51 13C2-PFHxDA	815 > 769.7	2.88e3	1.77e4	0.809	6.45	6.40	2.04	2.52	50.4
48	52 d7-N-MeFOSE	623.1 > 58.9	2.31e4	1.77e4	0.142	6.22	6.23	16.3	115	76.7
49	53 d9-N-EtFOSE	639.2 > 58.8	2.00e4	1.77e4	0.131	6.37	6.39	14.2	109	72.4
50	54 13C4-PFBA	217. > 171.8	9.63e3	9.63e3	1.000	1.33	1.22	12.5	12.5	100.0
51	55 13C5-PFHxA	318 > 272.9	1.29e4	1.29e4	1.000	3.08	2.99	12.5	12.5	100.0
52	56 13C3-PFHxS	401.9 > 79.9	2.20e3	2.20e3	1.000	3.85	3.77	12.5	12.5	100.0
53	57 13C8-PFOA	421.3 > 376	1.15e4	1.15e4	1.000	4.23	4.15	12.5	12.5	100.0
54	58 13C9-PFNA	472.2 > 426.9	1.30e4	1.30e4	1.000	4.67	4.59	12.5	12.5	100.0
55	59 13C4-PFOS	503 > 79.9	2.66e3	2.66e3	1.000	4.76	4.68	12.5	12.5	100.0
56	60 13C6-PFDA	519.1 > 473.7	1.49e4	1.49e4	1.000	5.05	4.97	12.5	12.5	100.0
57	61 13C7-PFUnA	570.1 > 524.8	1.77e4	1.77e4	1.000	5.38	5.30	12.5	12.5	100.0

50-150





Dataset: Untitled

Last Altered: Friday, October 27, 2017 09:45:04 Pacific Daylight Time

Printed: Friday, October 27, 2017 09:46:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 26 Oct 2017 08:20:12

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 26 Oct 2017 16:54:06

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171026M1_1	IPA	26-Oct-17	09:14:50
2	171026M1_2	ST171026M1-1 PFC CS-2 17I3006	26-Oct-17	09:26:00
3	171026M1_3	ST171026M1-2 PFC CS-1 17I3007	26-Oct-17	09:37:20
4	171026M1_4	ST171026M1-3 PFC CS0 17J1805	26-Oct-17	09:48:39
5	171026M1_5	ST171026M1-4 PFC CS1 17J3009	26-Oct-17	09:59:50
6	171026M1_6	ST171026M1-5 PFC CS2 17J2519	26-Oct-17	10:11:00
7	171026M1_7	ST171026M1-6 PFC CS3 17J1806	26-Oct-17	10:22:11
8	171026M1_8	ST171026M1-7 PFC CS4 17J2102	26-Oct-17	10:33:24
9	171026M1_9	ST171026M1-8 PFC CS5 17J2101	26-Oct-17	10:44:36
10	171026M1_10	ST171026M1-9 PFC CS6 17J2517	26-Oct-17	10:55:46
11	171026M1_11	ST171026M1-10 PFC CS7 17J2518	26-Oct-17	11:07:20
12	171026M1_12	IPA	26-Oct-17	11:18:50
13	171026M1_13	ICV171026M1-1 PFC ICV 17I3003	26-Oct-17	11:30:01
14	171026M1_14	IPA	26-Oct-17	11:41:12
15	171026M1_15	B7J0122-BS1 OPR 0.125	26-Oct-17	11:52:22
16	171026M1_16	B7J0092-BS1 OPR 0.125	26-Oct-17	12:03:33
17	171026M1_17	B7J0152-BS1 OPR 0.005	26-Oct-17	12:14:43
18	171026M1_18	B7J0136-BS1 OPR 1	26-Oct-17	12:25:54
19	171026M1_19	B7J0136-BSD1 LCS Dup 1	26-Oct-17	12:37:09
20	171026M1_20	IPA	26-Oct-17	12:48:25
21	171026M1_21	B7J0122-BLK1 Method Blank 0.125	26-Oct-17	12:59:36
22	171026M1_22	B7J0092-BLK1 Method Blank 0.125	26-Oct-17	13:10:47
23	171026M1_23	B7J0152-BLK1 Method Blank 0.005	26-Oct-17	13:21:58
24	171026M1_24	B7J0136-BLK1 Method Blank 1	26-Oct-17	13:33:09
25	171026M1_25	B7J0136-MS1 Matrix Spike 1.1	26-Oct-17	13:44:19
26	171026M1_26	B7J0136-MSD1 Matrix Spike Dup 1.1	26-Oct-17	13:55:30
27	171026M1_27	B7J0136-MS2 Matrix Spike 1.12	26-Oct-17	14:06:41
28	171026M1_28	B7J0136-MSD2 Matrix Spike Dup 1.18	26-Oct-17	14:17:51
29	171026M1_29	1701430-02RE2@20X Foam-6603 Loud 0.04...	26-Oct-17	14:29:02
30	171026M1_30	1701430-02RE2 Foam-6603 Loud 0.04537	26-Oct-17	14:40:13
31	171026M1_31	IPA	26-Oct-17	14:51:24

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Friday, October 27, 2017 09:45:04 Pacific Daylight Time

Printed: Friday, October 27, 2017 09:46:52 Pacific Daylight Time

## Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	171026M1_32	1701432-08RE1 Site 4-GW-04GW03-201710...	26-Oct-17	15:02:34
33	171026M1_33	1701384-01@10X MW-6 0.125	26-Oct-17	15:13:45
34	171026M1_34	1701385-05@10X B-E-GW 0.11326	26-Oct-17	15:24:56
35	171026M1_35	1701385-06@10X B-H-GW 0.11258	26-Oct-17	15:36:06
36	171026M1_36	1701385-07@10X B-I-GW 0.11542	26-Oct-17	15:47:17
37	171026M1_37	1701385-08@10X B-J-GW 0.11666	26-Oct-17	15:58:27
38	171026M1_38	IPA	26-Oct-17	16:09:38
39	171026M1_39	1701505-01 Breastmilk #1 0.005	26-Oct-17	16:20:49
40	171026M1_40	1701505-02 Breastmilk #2 0.005	26-Oct-17	16:32:00
41	171026M1_41	IPA	26-Oct-17	16:43:10
42	171026M1_42	ST171026M1-11 PFC CS3 17J1806	26-Oct-17	16:54:21
43	171026M1_43	IPA	26-Oct-17	17:05:32
44	171026M1_44	1701378-01 BRDLY-02-SB01-0-2 1.07	26-Oct-17	17:16:50
45	171026M1_45	1701378-02 BRDLY-02-SB01-13-15 1.2	26-Oct-17	17:28:15
46	171026M1_46	1701378-03 BRDLY-02-SB02-0-2 1.08	26-Oct-17	17:39:56
47	171026M1_47	1701378-04 BRDLY-02-SB02-13-15 1.29	26-Oct-17	17:51:07
48	171026M1_48	1701378-05 BRDLY-02-SB03-0-2 1.08	26-Oct-17	18:02:17
49	171026M1_49	1701378-06 BRDLY-02-SB03-13-15 1.17	26-Oct-17	18:13:28
50	171026M1_50	1701378-07 BRDLY-05-SB01-0-2 1.08	26-Oct-17	18:24:38
51	171026M1_51	1701378-08 BRDLY-05-SB02-0-2 1.07	26-Oct-17	18:35:49
52	171026M1_52	1701378-09 BRDLY-05-SB02-9-11 1.07	26-Oct-17	18:47:00
53	171026M1_53	1701378-10 BRDLY-05-SB03-0-2 1.05	26-Oct-17	18:58:11
54	171026M1_54	IPA	26-Oct-17	19:09:21
55	171026M1_55	ST171026M1-12 PFC CS3 17J1806	26-Oct-17	19:20:33
56	171026M1_56	IPA	26-Oct-17	19:31:43
57	171026M1_57	1701378-11 BRDLY-05-SB03-9-11 1.38	26-Oct-17	19:42:53
58	171026M1_58	1701378-13 BRDLY-03-SB03-0-2 1.13	26-Oct-17	19:54:04
59	171026M1_59	1701378-14 BRDLY-05-SB01-9-11 1.15	26-Oct-17	20:05:15
60	171026M1_60	1701411-01 BRDLY-03-SB03-11-13 1.21	26-Oct-17	20:16:25
61	171026M1_61	1701429-02 H1-SB-135-0'-2'-1017 1.2	26-Oct-17	20:27:36
62	171026M1_62	1701429-03 H1-SB-136-0'-2'-1017 1.14	26-Oct-17	20:38:47
63	171026M1_63	1701429-04 H1-SB-137-0'-2'-1017 1.18	26-Oct-17	20:49:57
64	171026M1_64	1701429-05 H1-SB-138-0'-2'-1017 1.1	26-Oct-17	21:01:09
65	171026M1_65	1701426-05RE1@5x FOAM1710050900JNR ...	26-Oct-17	21:12:19

Dataset:        Untitled

Last Altered:    Friday, October 27, 2017 09:45:04 Pacific Daylight Time

Printed:         Friday, October 27, 2017 09:46:52 Pacific Daylight Time

**Compound name: PFBA**

	Name	ID	Acq.Date	Acq.Time
66	171026M1_66	IPA	26-Oct-17	21:23:30
67	171026M1_67	ST171026M1-13 PFC CS3 17J1806	26-Oct-17	21:34:41

# LC Calibration Standards Review Checklist

24

Calibration ID:	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
ST 171026 M 1-11 L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (A)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ST 171026 M 1-12 L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (B)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ST 171026 M 1-13 L M H	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (C)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Calibration ID: L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Full Mass Cal. Date: 6/21/17

Run Log Present: ☒

# of Samples per Sequence Checked: ☒

Reviewed By: J.A. 10/27/2017  
Initials/Date

Comments: 211  
(A) PFDs = 137.0%  
(B) B2 PFDs = 40.2%  
(C) 8.2 FTS = 149.8% B2 PFDs = 35.3%

Dataset: U:\Q4.PRO\results\171026M1\171026M1-42.qld

Last Altered: Friday, October 27, 2017 10:51:51 Pacific Daylight Time

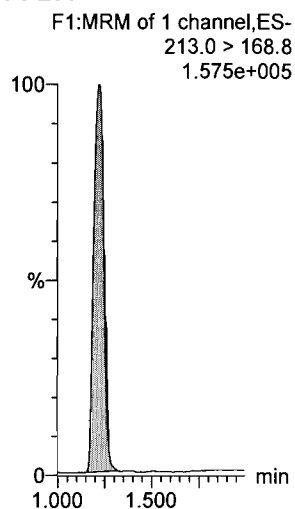
Printed: Friday, October 27, 2017 10:52:07 Pacific Daylight Time

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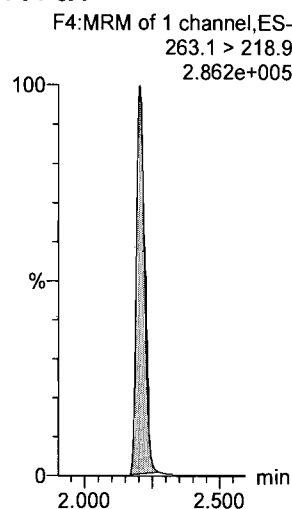
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Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

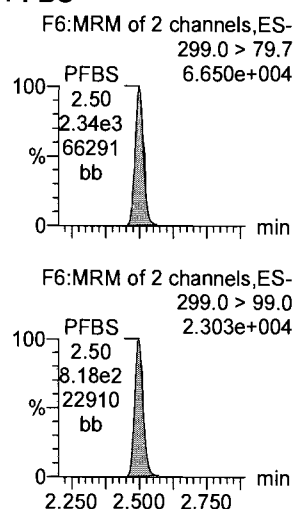
**PFBA**



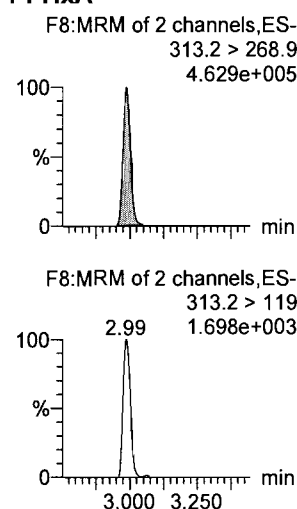
**PFPeA**



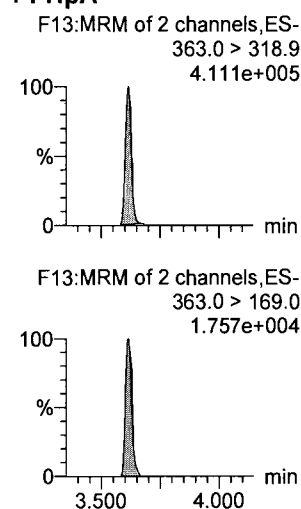
**PFBS**



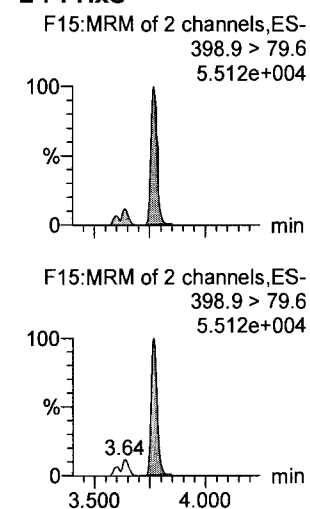
**PFHxA**



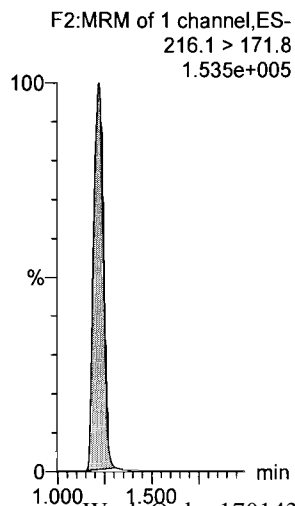
**PFHpA**



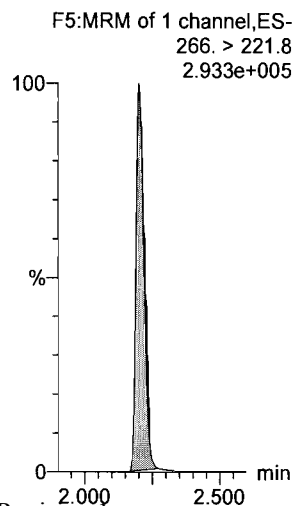
**L-PFHxS**



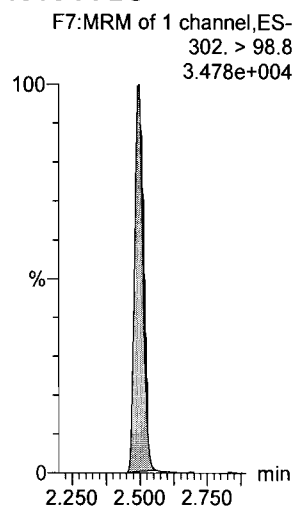
**13C3-PFBA**



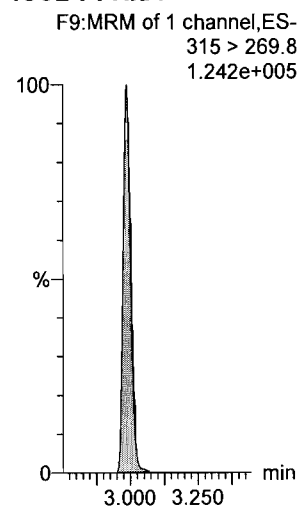
**13C3-PFPeA**



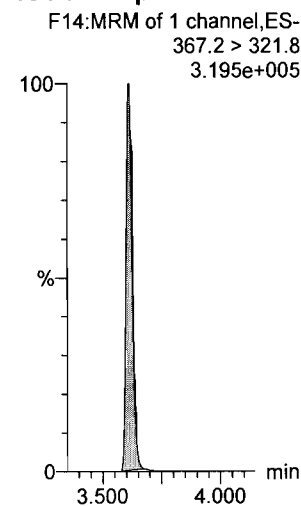
**13C3-PFBS**



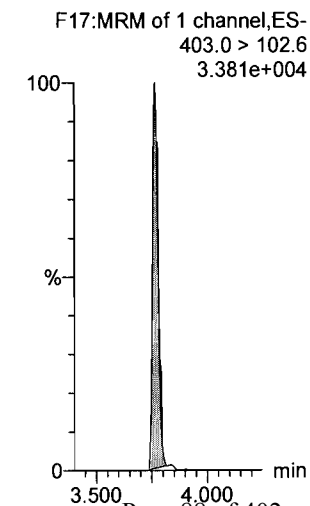
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



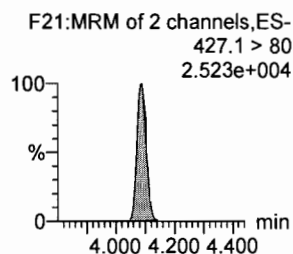
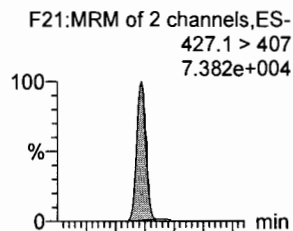
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Last Altered: Friday, October 27, 2017 10:51:51 Pacific Daylight Time

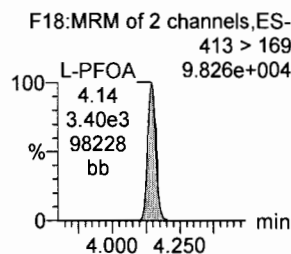
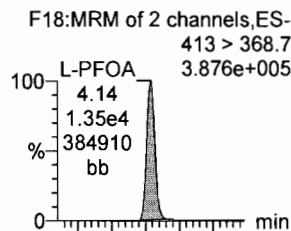
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Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

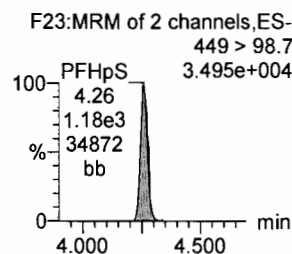
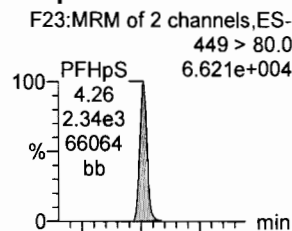
### 6:2 FTS



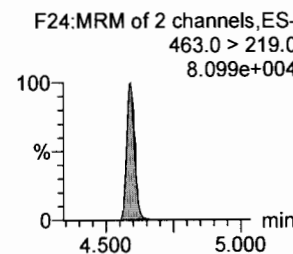
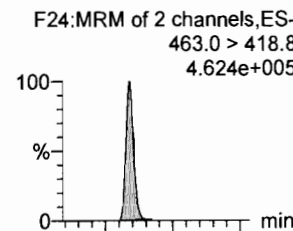
### L-PFOA



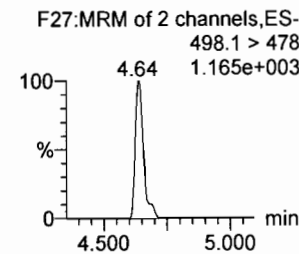
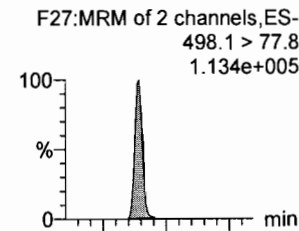
### PFHpS



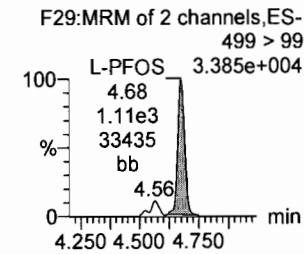
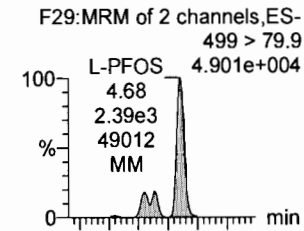
### PFNA



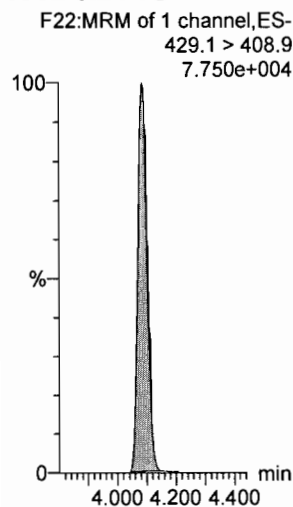
### PFOSA



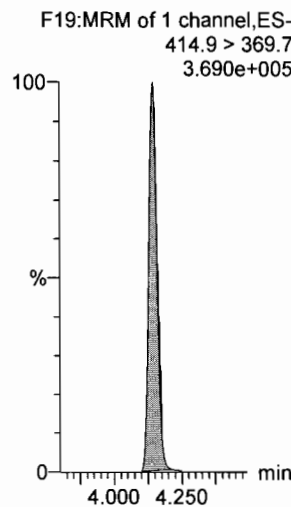
### L-PFOS



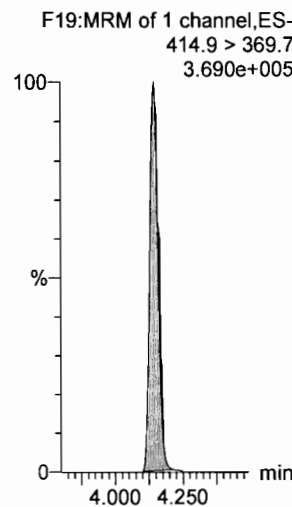
### 13C2-6:2 FTS



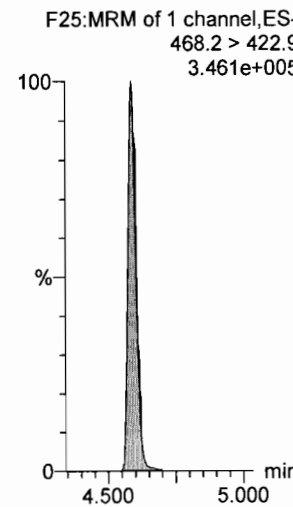
### 13C2-PFOA



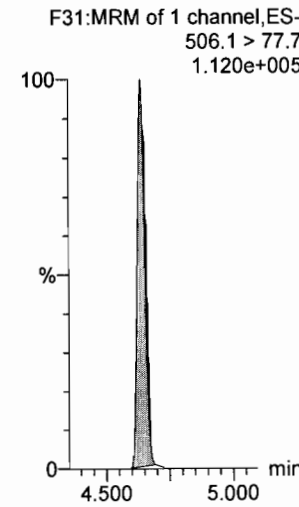
### 13C2-PFOA



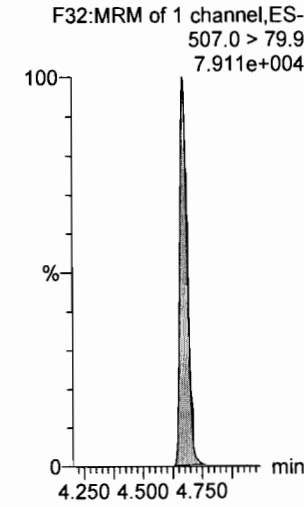
### 13C5-PFNA



### 13C8-PFOSA



### 13C8-PFOS



Dataset: U:\Q4.PRO\results\171026M1\171026M1-42.qld

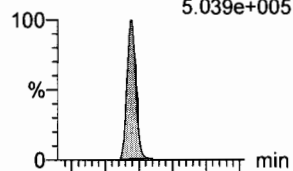
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Printed: Friday, October 27, 2017 10:52:07 Pacific Daylight Time

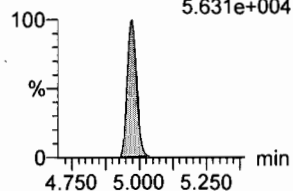
Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
5.039e+005

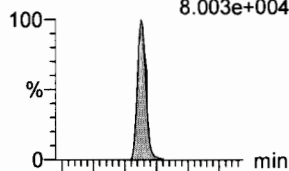


F34:MRM of 2 channels,ES-  
513 > 219  
5.631e+004

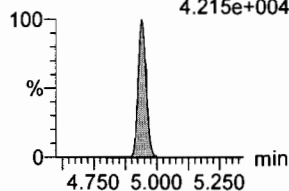


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
8.003e+004

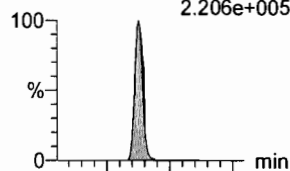


F39:MRM of 2 channels,ES-  
527 > 80  
4.215e+004

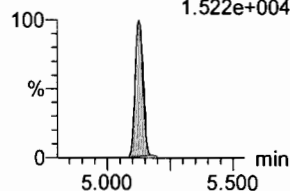


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
2.206e+005

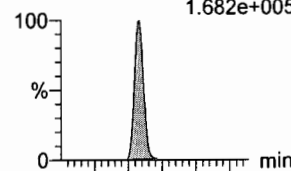


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.522e+004

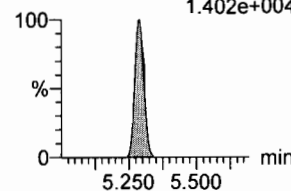


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.682e+005

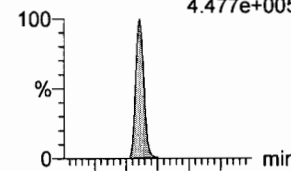


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.402e+004

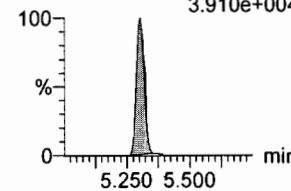


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
4.477e+005

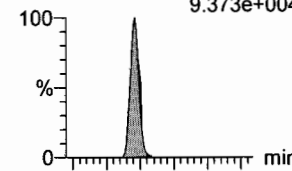


F42:MRM of 2 channels,ES-  
563.0 > 269  
3.910e+004

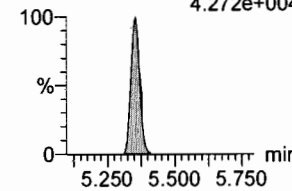


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
9.373e+004

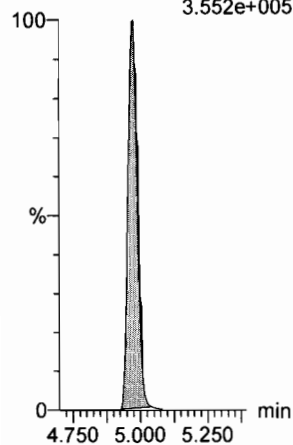


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
4.272e+004



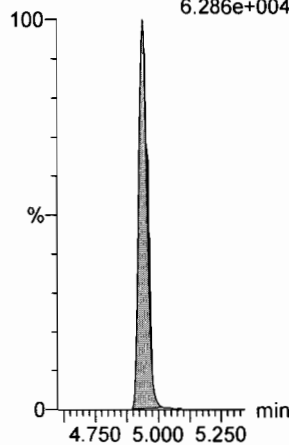
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
3.552e+005



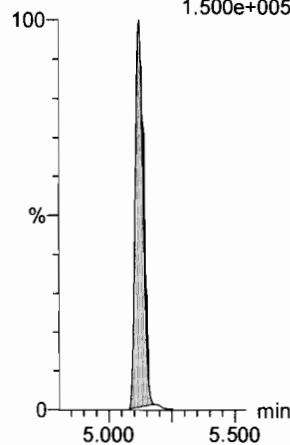
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
6.286e+004



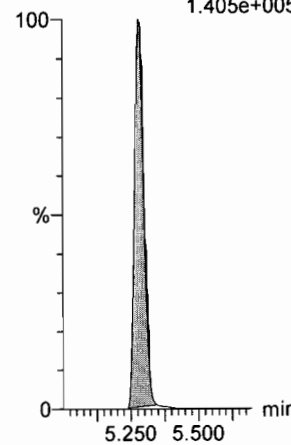
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.500e+005



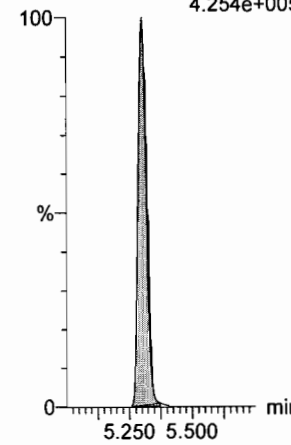
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.405e+005



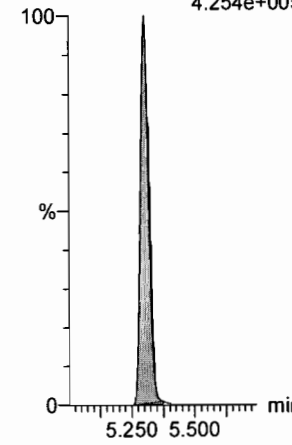
**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
4.254e+005



**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
4.254e+005



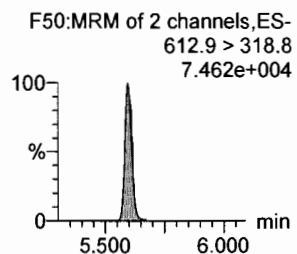
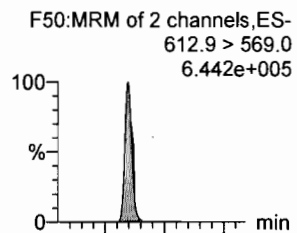
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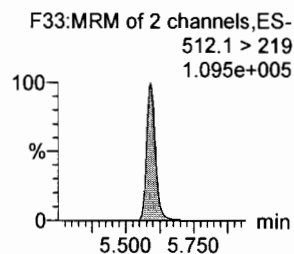
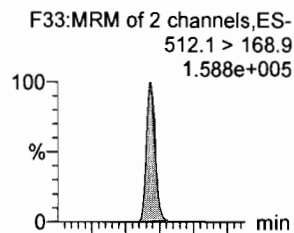
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Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

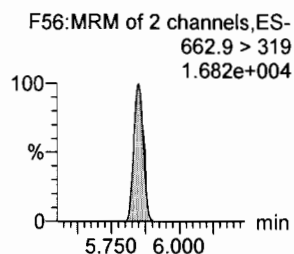
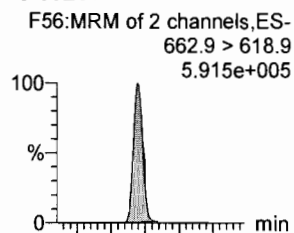
**PFD<sub>o</sub>A**



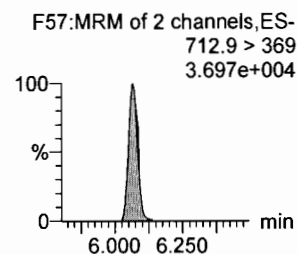
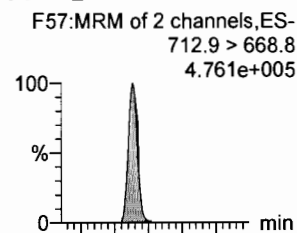
**N-MeFOSA**



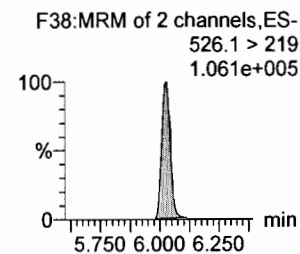
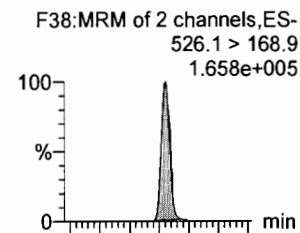
**PFT<sub>r</sub>DA**



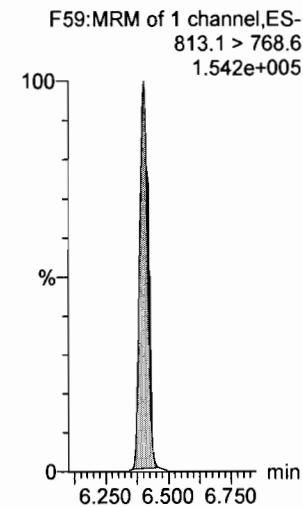
**PFT<sub>e</sub>DA**



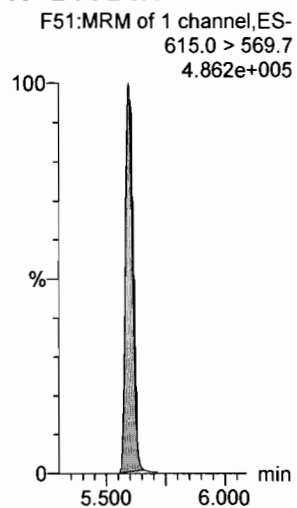
**N-EtFOSA**



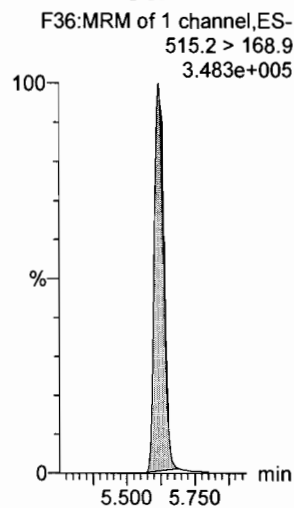
**PFH<sub>x</sub>DA**



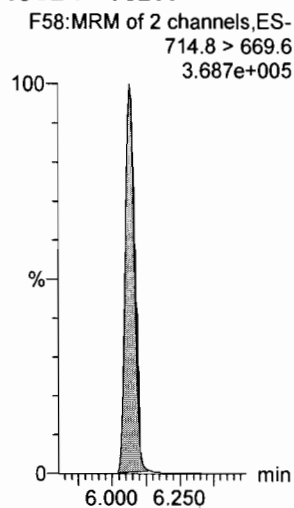
**13C2-PFD<sub>o</sub>A**



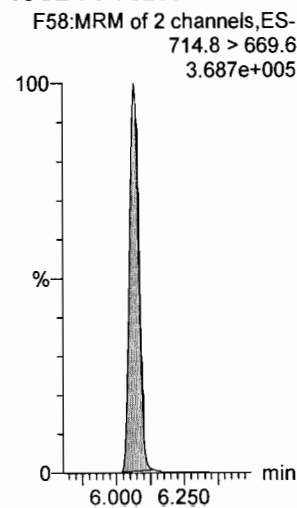
**d3-N-MeFOSA**



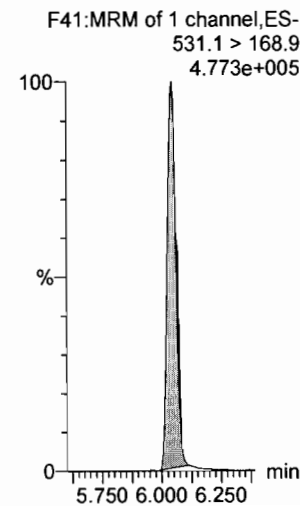
**13C2-PFT<sub>e</sub>DA**



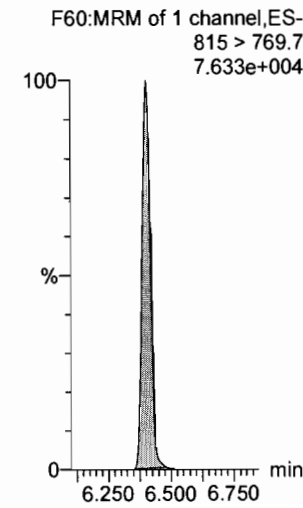
**13C2-PFT<sub>e</sub>DA**



**d5-N-ETFOSA**



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





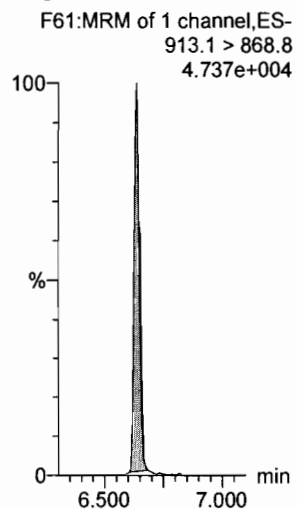
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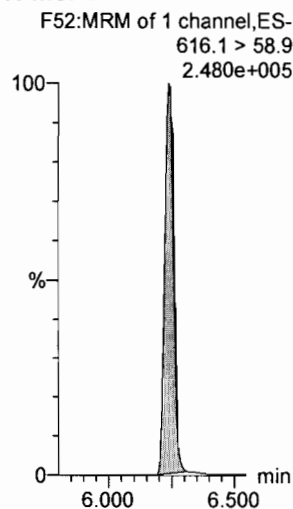
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Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

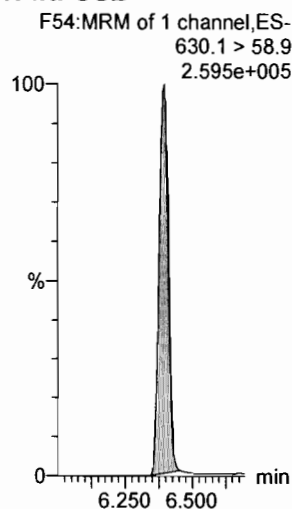
**PFODA**



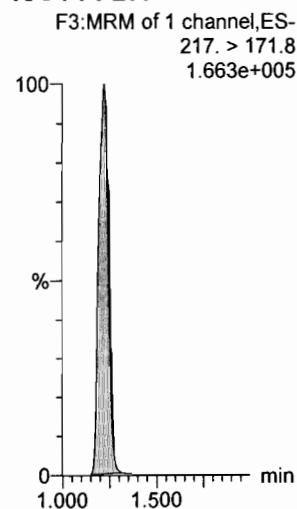
**N-MeFOSE**



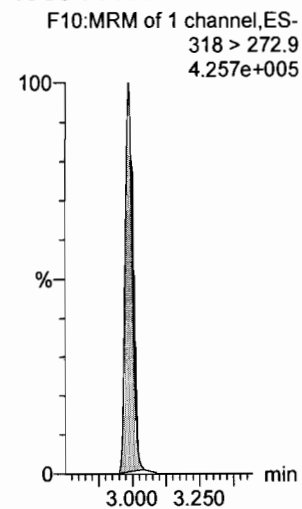
**N-EtFOSE**



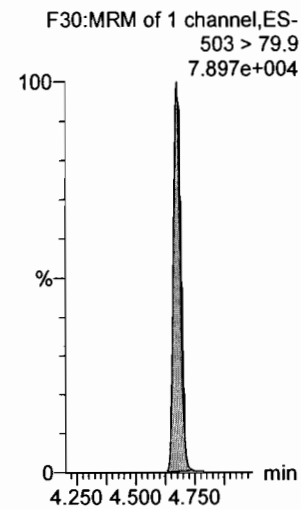
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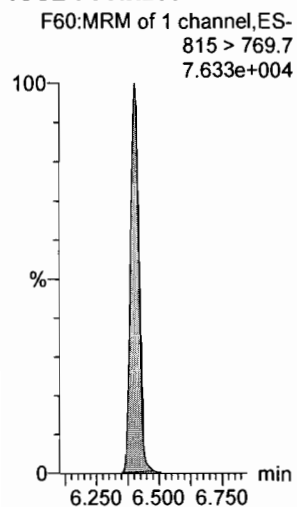
**13C5-PFHxA**



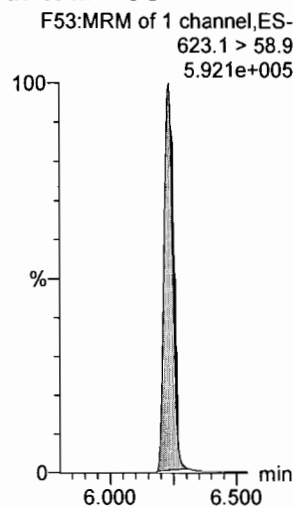
**13C4-PFOS**



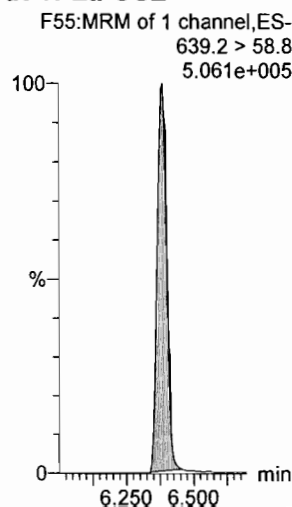
**13C2-PFHxDA**



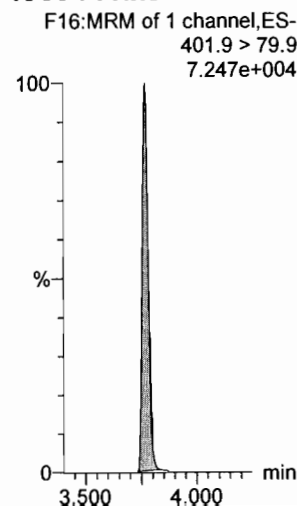
**d7-N-MeFOSE**



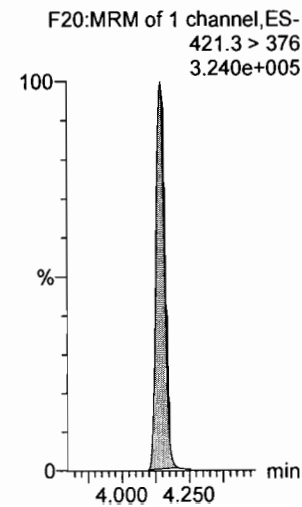
**d9-N-EtFOSE**



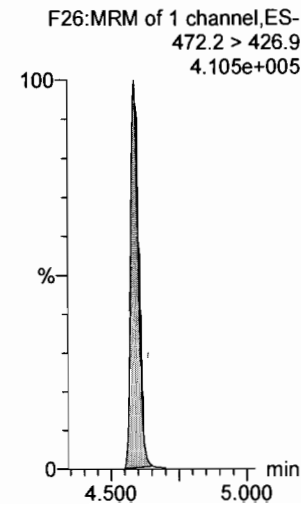
**13C3-PFHxS**



**13C8-PFOA**



**13C9-PFNA**



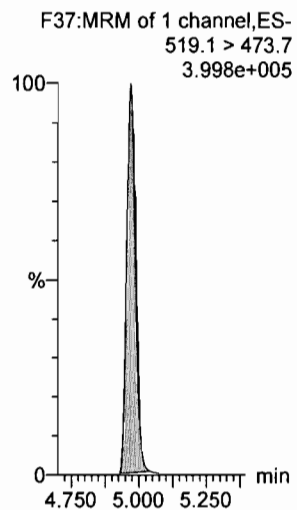
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Last Altered: Friday, October 27, 2017 10:51:51 Pacific Daylight Time

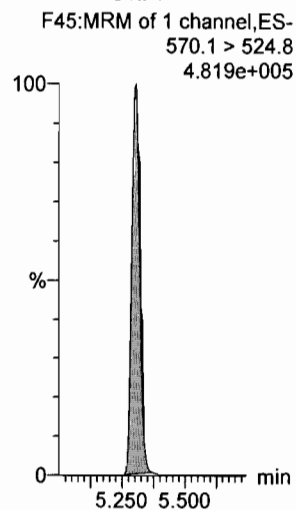
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Name: 171026M1\_42, Date: 26-Oct-2017, Time: 16:54:21, ID: ST171026M1-11 PFC CS3 17J1806, Description: PFC CS3 17J1806

13C6-PFDA



13C7-PFUnA



Dataset: Untitled

Last Altered: Friday, November 03, 2017 15:35:49 Pacific Daylight Time

Printed: Friday, November 03, 2017 15:36:06 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_RS-10-27-17.mdb 27 Oct 2017 15:32:48

Calibration: 03 Nov 2017 15:35:49

Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

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2	2 13C5-PFHxA	ST171103M1-1 PFC CS0 17J2807	9.41e3	100.0	NO
3	3 13C3-PFHxS	ST171103M1-1 PFC CS0 17J2807	1.71e3	100.0	NO
4	4 13C8-PFOA	ST171103M1-1 PFC CS0 17J2807	7.90e3	100.0	NO
5	5 13C9-PFNA	ST171103M1-1 PFC CS0 17J2807	8.20e3	100.0	NO
6	6 13C4-PFOS	ST171103M1-1 PFC CS0 17J2807	2.24e3	100.0	NO
7	7 13C6-PFDA	ST171103M1-1 PFC CS0 17J2807	8.32e3	100.0	NO
8	8 13C7-PFUnA	ST171103M1-1 PFC CS0 17J2807	9.08e3	100.0	NO

Name: 171103M1\_3, Date: 03-Nov-2017, Time: 13:46:25, 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-PFUnA	IPA			NO

Name: 171103M1\_4, Date: 03-Nov-2017, Time: 13:57:38, ID: 1701439-03 FRB04\_20171005 0.125, Description: FRB04\_20171005

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701439-03 FRB04_20171005 0.125	7.15e3	97.6	NO
2	2 13C5-PFHxA	1701439-03 FRB04_20171005 0.125	8.79e3	93.5	NO
3	3 13C3-PFHxS	1701439-03 FRB04_20171005 0.125	1.66e3	96.9	NO
4	4 13C8-PFOA	1701439-03 FRB04_20171005 0.125	8.11e3	102.7	NO
5	5 13C9-PFNA	1701439-03 FRB04_20171005 0.125	9.94e3	121.3	NO
6	6 13C4-PFOS	1701439-03 FRB04_20171005 0.125	1.78e3	79.3	NO
7	7 13C6-PFDA	1701439-03 FRB04_20171005 0.125	8.94e3	107.5	NO
8	8 13C7-PFUnA	1701439-03 FRB04_20171005 0.125	8.91e3	98.1	NO

Name: 171103M1\_5, Date: 03-Nov-2017, Time: 14:08:50, ID: 1701439-05 FRB06\_20171006 0.125, Description: FRB06\_20171006

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701439-05 FRB06_20171006 0.125	7.38e3	100.7	NO
2	2 13C5-PFHxA	1701439-05 FRB06_20171006 0.125	9.34e3	99.3	NO
3	3 13C3-PFHxS	1701439-05 FRB06_20171006 0.125	1.69e3	98.8	NO
4	4 13C8-PFOA	1701439-05 FRB06_20171006 0.125	8.18e3	103.5	NO
5	5 13C9-PFNA	1701439-05 FRB06_20171006 0.125	8.53e3	104.1	NO
6	6 13C4-PFOS	1701439-05 FRB06_20171006 0.125	2.00e3	89.3	NO
7	7 13C6-PFDA	1701439-05 FRB06_20171006 0.125	1.06e4	127.9	NO
8	8 13C7-PFUnA	1701439-05 FRB06_20171006 0.125	1.03e4	113.9	NO

Dataset: Untitled

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**Name: 171103M1\_6, Date: 03-Nov-2017, Time: 14:20:00, ID: B7J0136-MS2@5X Matrix Spike 1.12, Description: Matrix Spike**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MS2@5X Matrix Spike 1.12	1.60e3	21.8	YES
2	2	13C5-PFHxA	B7J0136-MS2@5X Matrix Spike 1.12	2.32e3	24.7	YES
3	3	13C3-PFHxS	B7J0136-MS2@5X Matrix Spike 1.12	3.50e2	20.5	YES
4	4	13C8-PFOA	B7J0136-MS2@5X Matrix Spike 1.12	1.69e3	21.3	YES
5	5	13C9-PFNA	B7J0136-MS2@5X Matrix Spike 1.12	1.91e3	23.3	YES
6	6	13C4-PFOS	B7J0136-MS2@5X Matrix Spike 1.12	3.83e2	17.1	YES
7	7	13C6-PFDA	B7J0136-MS2@5X Matrix Spike 1.12	2.07e3	24.9	YES
8	8	13C7-PFUnA	B7J0136-MS2@5X Matrix Spike 1.12	2.30e3	25.4	YES

**Name: 171103M1\_7, Date: 03-Nov-2017, Time: 14:31:11, ID: B7J0136-MSD2@5X Matrix Spike Dup 1.18, Description: Matrix Spike Dup**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MSD2@5X Matrix Spike Dup ...	1.35e3	18.4	YES
2	2	13C5-PFHxA	B7J0136-MSD2@5X Matrix Spike Dup ...	2.00e3	21.3	YES
3	3	13C3-PFHxS	B7J0136-MSD2@5X Matrix Spike Dup ...	3.50e2	20.4	YES
4	4	13C8-PFOA	B7J0136-MSD2@5X Matrix Spike Dup ...	1.49e3	18.8	YES
5	5	13C9-PFNA	B7J0136-MSD2@5X Matrix Spike Dup ...	1.59e3	19.4	YES
6	6	13C4-PFOS	B7J0136-MSD2@5X Matrix Spike Dup ...	5.34e2	23.8	YES
7	7	13C6-PFDA	B7J0136-MSD2@5X Matrix Spike Dup ...	2.03e3	24.4	YES
8	8	13C7-PFUnA	B7J0136-MSD2@5X Matrix Spike Dup ...	2.94e3	32.4	YES

**Name: 171103M1\_8, Date: 03-Nov-2017, Time: 14:42:22, ID: B7J0136-MSD2 Matrix Spike Dup 1.18, Description: Matrix Spike Dup**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MSD2 Matrix Spike Dup 1.18	6.81e3	93.0	NO
2	2	13C5-PFHxA	B7J0136-MSD2 Matrix Spike Dup 1.18	8.60e3	91.5	NO
3	3	13C3-PFHxS	B7J0136-MSD2 Matrix Spike Dup 1.18	1.69e3	98.8	NO
4	4	13C8-PFOA	B7J0136-MSD2 Matrix Spike Dup 1.18	6.59e3	83.5	NO
5	5	13C9-PFNA	B7J0136-MSD2 Matrix Spike Dup 1.18	1.10e4	134.7	NO
6	6	13C4-PFOS	B7J0136-MSD2 Matrix Spike Dup 1.18	3.13e3	139.4	NO
7	7	13C6-PFDA	B7J0136-MSD2 Matrix Spike Dup 1.18	7.31e3	87.9	NO
8	8	13C7-PFUnA	B7J0136-MSD2 Matrix Spike Dup 1.18	1.76e4	194.2	YES

**Name: 171103M1\_9, Date: 03-Nov-2017, Time: 14:54:57, ID: 1701528-05@30X STWRT-RPTSW01 0.11748, Description: STWRT-RPTSW01**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701528-05@30X STWRT-RPTSW01 ...	2.01e2	2.7	YES
2	2	13C5-PFHxA	1701528-05@30X STWRT-RPTSW01 ...	2.76e2	2.9	YES
3	3	13C3-PFHxS	1701528-05@30X STWRT-RPTSW01 ...	3.55e1	2.1	YES
4	4	13C8-PFOA	1701528-05@30X STWRT-RPTSW01 ...	2.02e2	2.6	YES
5	5	13C9-PFNA	1701528-05@30X STWRT-RPTSW01 ...	2.43e2	3.0	YES
6	6	13C4-PFOS	1701528-05@30X STWRT-RPTSW01 ...	3.43e1	1.5	YES
7	7	13C6-PFDA	1701528-05@30X STWRT-RPTSW01 ...	3.45e2	4.1	YES
8	8	13C7-PFUnA	1701528-05@30X STWRT-RPTSW01 ...	2.51e2	2.8	YES

Dataset: Untitled

Last Altered: Friday, November 03, 2017 15:35:49 Pacific Daylight Time

Printed: Friday, November 03, 2017 15:36:06 Pacific Daylight Time

**Name: 171103M1\_10, Date: 03-Nov-2017, Time: 15:06:05, 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-PFUnA	IPA			NO

**Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171103M1-2 PFC CS3 17J2810	7.57e3	103.3	NO
2	2	13C5-PFHxA	ST171103M1-2 PFC CS3 17J2810	1.06e4	112.2	NO
3	3	13C3-PFHxS	ST171103M1-2 PFC CS3 17J2810	1.82e3	106.4	NO
4	4	13C8-PFOA	ST171103M1-2 PFC CS3 17J2810	6.90e3	87.3	NO
5	5	13C9-PFNA	ST171103M1-2 PFC CS3 17J2810	9.52e3	116.1	NO
6	6	13C4-PFOS	ST171103M1-2 PFC CS3 17J2810	2.00e3	89.1	NO
7	7	13C6-PFDA	ST171103M1-2 PFC CS3 17J2810	8.56e3	102.9	NO
8	8	13C7-PFUnA	ST171103M1-2 PFC CS3 17J2810	9.81e3	108.1	NO

Dataset: Untitled

Last Altered: Friday, November 03, 2017 15:35:49 Pacific Daylight Time

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Calibration: 03 Nov 2017 15:35:49

Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171103M1-1 PFC CS0 17J2807	7.33e3	100.0	NO
2	2 13C5-PFHxA	ST171103M1-1 PFC CS0 17J2807	9.41e3	100.0	NO
3	3 13C3-PFHxS	ST171103M1-1 PFC CS0 17J2807	1.71e3	100.0	NO
4	4 13C8-PFOA	ST171103M1-1 PFC CS0 17J2807	7.90e3	100.0	NO
5	5 13C9-PFNA	ST171103M1-1 PFC CS0 17J2807	8.20e3	100.0	NO
6	6 13C4-PFOS	ST171103M1-1 PFC CS0 17J2807	2.24e3	100.0	NO
7	7 13C6-PFDA	ST171103M1-1 PFC CS0 17J2807	8.32e3	100.0	NO
8	8 13C7-PFUnA	ST171103M1-1 PFC CS0 17J2807	9.08e3	100.0	NO

Name: 171103M1\_3, Date: 03-Nov-2017, Time: 13:46:25, 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-PFUnA	IPA			NO

Name: 171103M1\_4, Date: 03-Nov-2017, Time: 13:57:38, ID: 1701439-03 FRB04\_20171005 0.125, Description: FRB04\_20171005

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701439-03 FRB04_20171005 0.125	7.15e3	97.6	NO
2	2 13C5-PFHxA	1701439-03 FRB04_20171005 0.125	8.79e3	93.5	NO
3	3 13C3-PFHxS	1701439-03 FRB04_20171005 0.125	1.66e3	96.9	NO
4	4 13C8-PFOA	1701439-03 FRB04_20171005 0.125	8.11e3	102.7	NO
5	5 13C9-PFNA	1701439-03 FRB04_20171005 0.125	9.94e3	121.3	NO
6	6 13C4-PFOS	1701439-03 FRB04_20171005 0.125	1.78e3	79.3	NO
7	7 13C6-PFDA	1701439-03 FRB04_20171005 0.125	8.94e3	107.5	NO
8	8 13C7-PFUnA	1701439-03 FRB04_20171005 0.125	8.91e3	98.1	NO

Name: 171103M1\_5, Date: 03-Nov-2017, Time: 14:08:50, ID: 1701439-05 FRB06\_20171006 0.125, Description: FRB06\_20171006

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701439-05 FRB06_20171006 0.125	7.38e3	100.7	NO
2	2 13C5-PFHxA	1701439-05 FRB06_20171006 0.125	9.34e3	99.3	NO
3	3 13C3-PFHxS	1701439-05 FRB06_20171006 0.125	1.69e3	98.8	NO
4	4 13C8-PFOA	1701439-05 FRB06_20171006 0.125	8.18e3	103.5	NO
5	5 13C9-PFNA	1701439-05 FRB06_20171006 0.125	8.53e3	104.1	NO
6	6 13C4-PFOS	1701439-05 FRB06_20171006 0.125	2.00e3	89.3	NO
7	7 13C6-PFDA	1701439-05 FRB06_20171006 0.125	1.06e4	127.9	NO
8	8 13C7-PFUnA	1701439-05 FRB06_20171006 0.125	1.03e4	113.9	NO

Dataset: Untitled

Last Altered: Friday, November 03, 2017 15:35:49 Pacific Daylight Time

Printed: Friday, November 03, 2017 15:36:06 Pacific Daylight Time

**Name: 171103M1\_6, Date: 03-Nov-2017, Time: 14:20:00, ID: B7J0136-MS2@5X Matrix Spike 1.12, Description: Matrix Spike**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MS2@5X Matrix Spike 1.12	1.60e3	21.8	YES
2	2	13C5-PFHxA	B7J0136-MS2@5X Matrix Spike 1.12	2.32e3	24.7	YES
3	3	13C3-PFHxS	B7J0136-MS2@5X Matrix Spike 1.12	3.50e2	20.5	YES
4	4	13C8-PFOA	B7J0136-MS2@5X Matrix Spike 1.12	1.69e3	21.3	YES
5	5	13C9-PFNA	B7J0136-MS2@5X Matrix Spike 1.12	1.91e3	23.3	YES
6	6	13C4-PFOS	B7J0136-MS2@5X Matrix Spike 1.12	3.83e2	17.1	YES
7	7	13C6-PFDA	B7J0136-MS2@5X Matrix Spike 1.12	2.07e3	24.9	YES
8	8	13C7-PFUnA	B7J0136-MS2@5X Matrix Spike 1.12	2.30e3	25.4	YES

**Name: 171103M1\_7, Date: 03-Nov-2017, Time: 14:31:11, ID: B7J0136-MSD2@5X Matrix Spike Dup 1.18, Description: Matrix Spike Dup**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MSD2@5X Matrix Spike Dup ...	1.35e3	18.4	YES
2	2	13C5-PFHxA	B7J0136-MSD2@5X Matrix Spike Dup ...	2.00e3	21.3	YES
3	3	13C3-PFHxS	B7J0136-MSD2@5X Matrix Spike Dup ...	3.50e2	20.4	YES
4	4	13C8-PFOA	B7J0136-MSD2@5X Matrix Spike Dup ...	1.49e3	18.8	YES
5	5	13C9-PFNA	B7J0136-MSD2@5X Matrix Spike Dup ...	1.59e3	19.4	YES
6	6	13C4-PFOS	B7J0136-MSD2@5X Matrix Spike Dup ...	5.34e2	23.8	YES
7	7	13C6-PFDA	B7J0136-MSD2@5X Matrix Spike Dup ...	2.03e3	24.4	YES
8	8	13C7-PFUnA	B7J0136-MSD2@5X Matrix Spike Dup ...	2.94e3	32.4	YES

**Name: 171103M1\_8, Date: 03-Nov-2017, Time: 14:42:22, ID: B7J0136-MSD2 Matrix Spike Dup 1.18, Description: Matrix Spike Dup**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7J0136-MSD2 Matrix Spike Dup 1.18	6.81e3	93.0	NO
2	2	13C5-PFHxA	B7J0136-MSD2 Matrix Spike Dup 1.18	8.60e3	91.5	NO
3	3	13C3-PFHxS	B7J0136-MSD2 Matrix Spike Dup 1.18	1.69e3	98.8	NO
4	4	13C8-PFOA	B7J0136-MSD2 Matrix Spike Dup 1.18	6.59e3	83.5	NO
5	5	13C9-PFNA	B7J0136-MSD2 Matrix Spike Dup 1.18	1.10e4	134.7	NO
6	6	13C4-PFOS	B7J0136-MSD2 Matrix Spike Dup 1.18	3.13e3	139.4	NO
7	7	13C6-PFDA	B7J0136-MSD2 Matrix Spike Dup 1.18	7.31e3	87.9	NO
8	8	13C7-PFUnA	B7J0136-MSD2 Matrix Spike Dup 1.18	1.76e4	194.2	YES

**Name: 171103M1\_9, Date: 03-Nov-2017, Time: 14:54:57, ID: 1701528-05@30X STWRT-RPTSW01 0.11748, Description: STWRT-RPTSW01**

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701528-05@30X STWRT-RPTSW01 ...	2.01e2	2.7	YES
2	2	13C5-PFHxA	1701528-05@30X STWRT-RPTSW01 ...	2.76e2	2.9	YES
3	3	13C3-PFHxS	1701528-05@30X STWRT-RPTSW01 ...	3.55e1	2.1	YES
4	4	13C8-PFOA	1701528-05@30X STWRT-RPTSW01 ...	2.02e2	2.6	YES
5	5	13C9-PFNA	1701528-05@30X STWRT-RPTSW01 ...	2.43e2	3.0	YES
6	6	13C4-PFOS	1701528-05@30X STWRT-RPTSW01 ...	3.43e1	1.5	YES
7	7	13C6-PFDA	1701528-05@30X STWRT-RPTSW01 ...	3.45e2	4.1	YES
8	8	13C7-PFUnA	1701528-05@30X STWRT-RPTSW01 ...	2.51e2	2.8	YES

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Last Altered: Friday, November 03, 2017 15:35:49 Pacific Daylight Time

Printed: Friday, November 03, 2017 15:36:06 Pacific Daylight Time

Name: 171103M1\_10, Date: 03-Nov-2017, Time: 15:06:05, 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-PFUnA	IPA			NO

Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171103M1-2 PFC CS3 17J2810	7.57e3	103.3	NO
2	2	13C5-PFHxA	ST171103M1-2 PFC CS3 17J2810	1.06e4	112.2	NO
3	3	13C3-PFHxS	ST171103M1-2 PFC CS3 17J2810	1.82e3	106.4	NO
4	4	13C8-PFOA	ST171103M1-2 PFC CS3 17J2810	6.90e3	87.3	NO
5	5	13C9-PFNA	ST171103M1-2 PFC CS3 17J2810	9.52e3	116.1	NO
6	6	13C4-PFOS	ST171103M1-2 PFC CS3 17J2810	2.00e3	89.1	NO
7	7	13C6-PFDA	ST171103M1-2 PFC CS3 17J2810	8.56e3	102.9	NO
8	8	13C7-PFUnA	ST171103M1-2 PFC CS3 17J2810	9.81e3	108.1	NO



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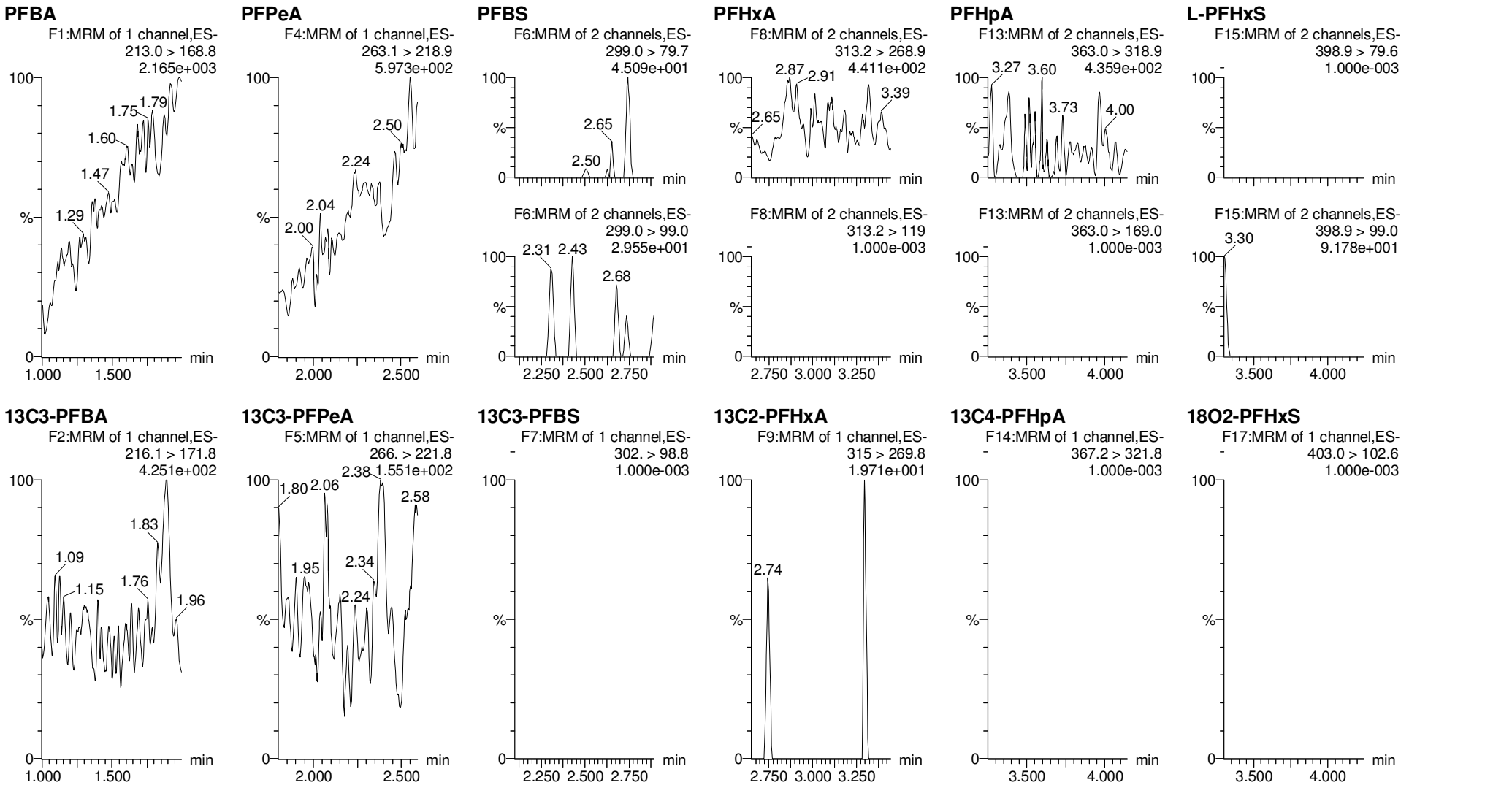
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Name: 171103M1\_3, Date: 03-Nov-2017, Time: 13:46:25, ID: IPA, Description: IPA



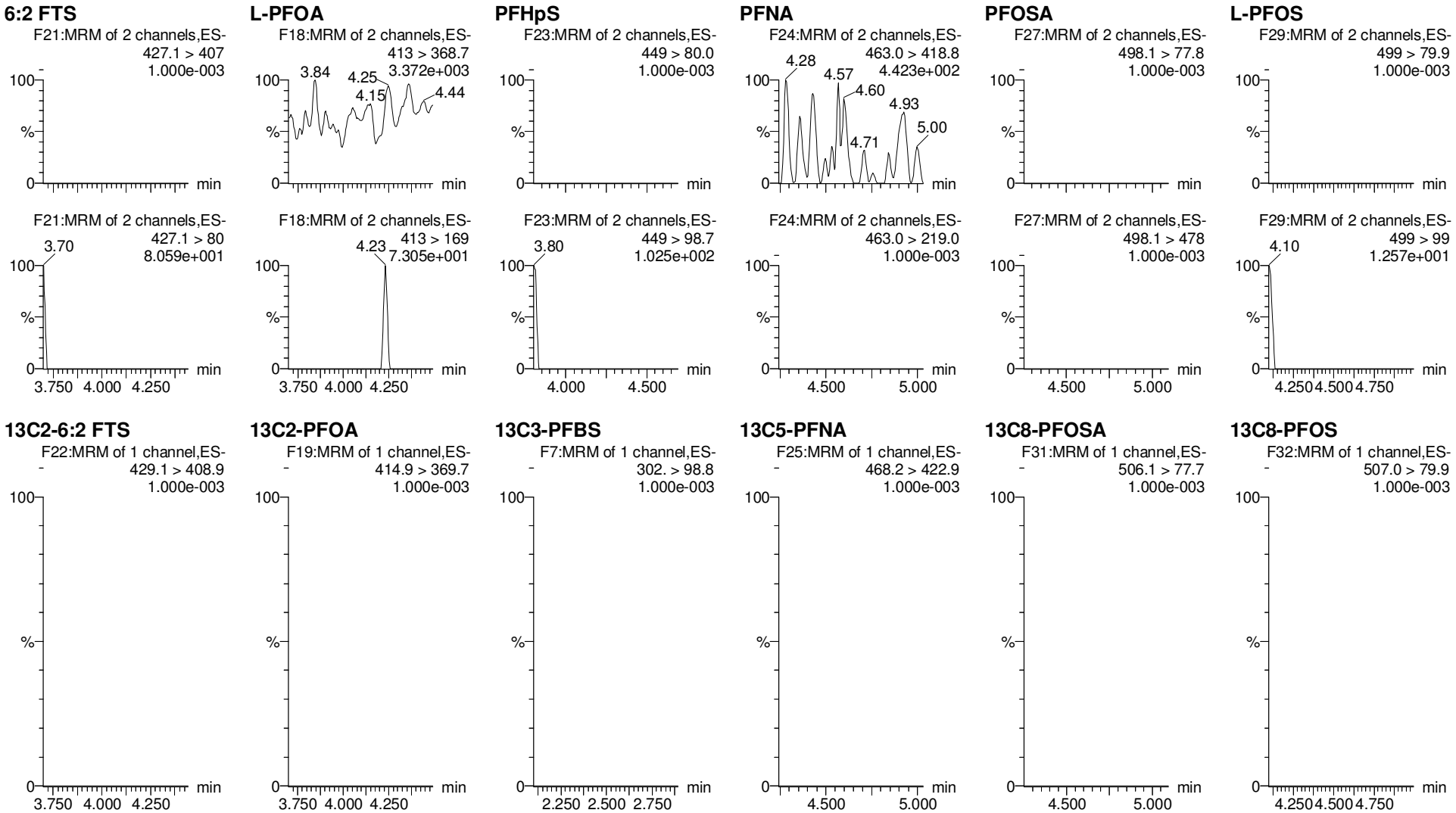
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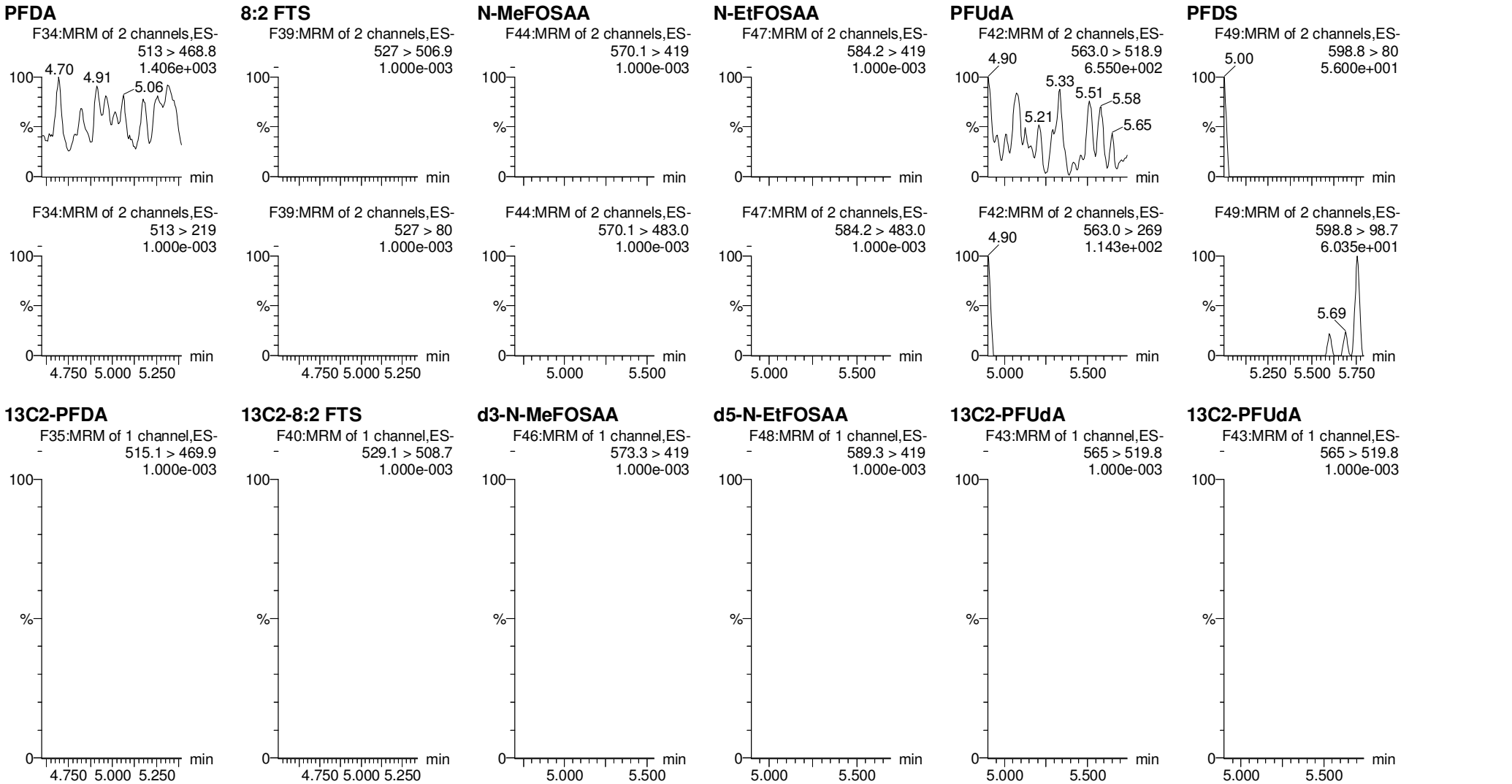


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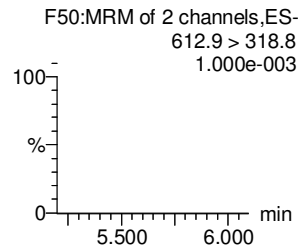
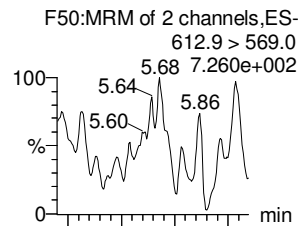
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Last Altered:   Friday, November 03, 2017 15:14:25 Pacific Daylight Time

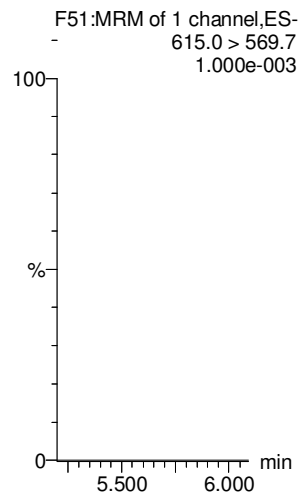
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Name: 171103M1\_3, Date: 03-Nov-2017, Time: 13:46:25, ID: IPA, Description: IPA

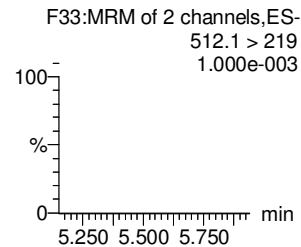
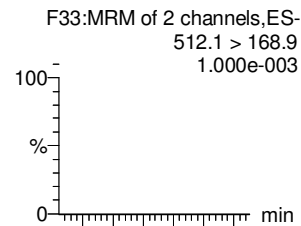
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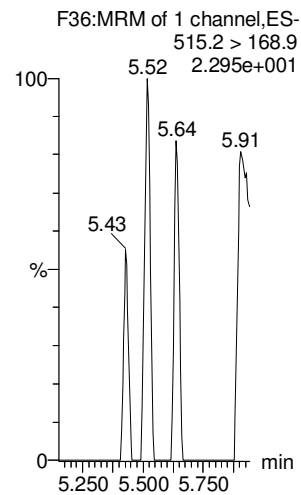
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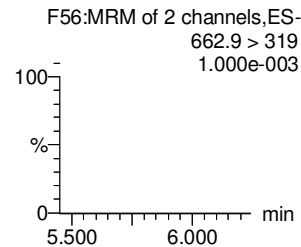
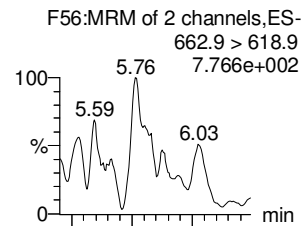
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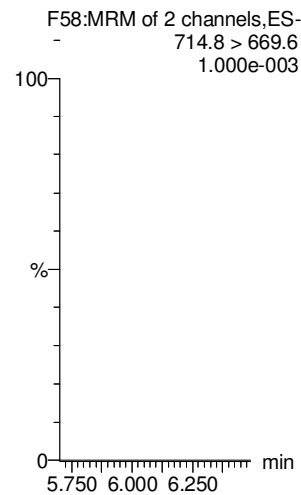
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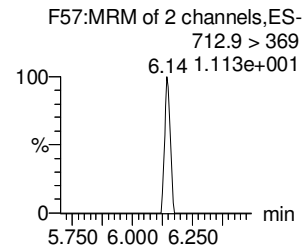
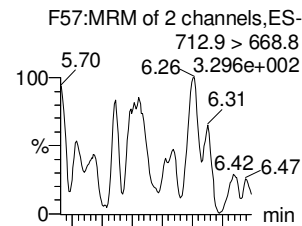
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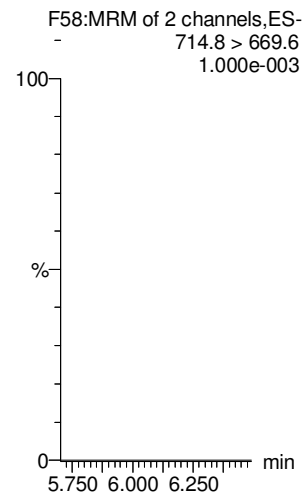
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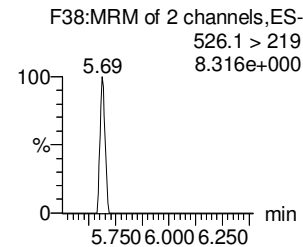
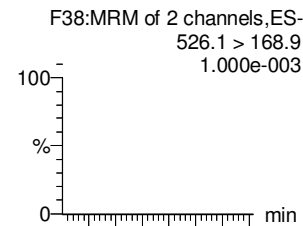
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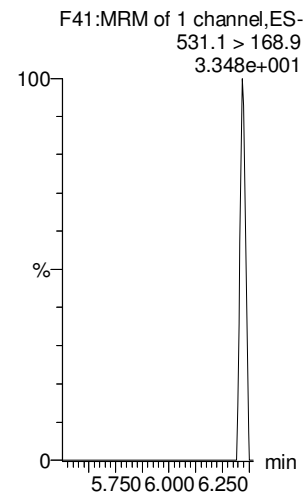
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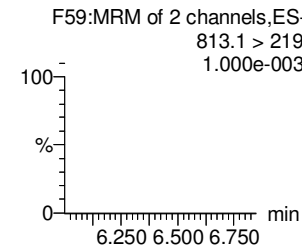
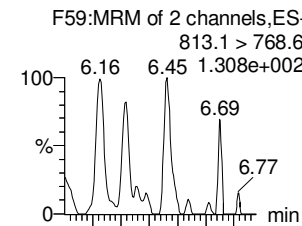
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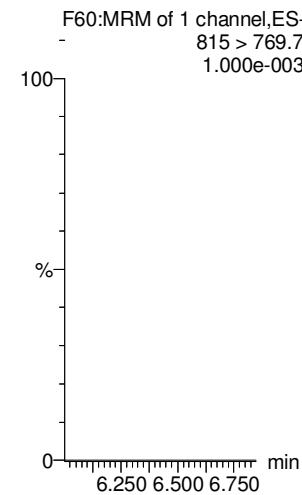
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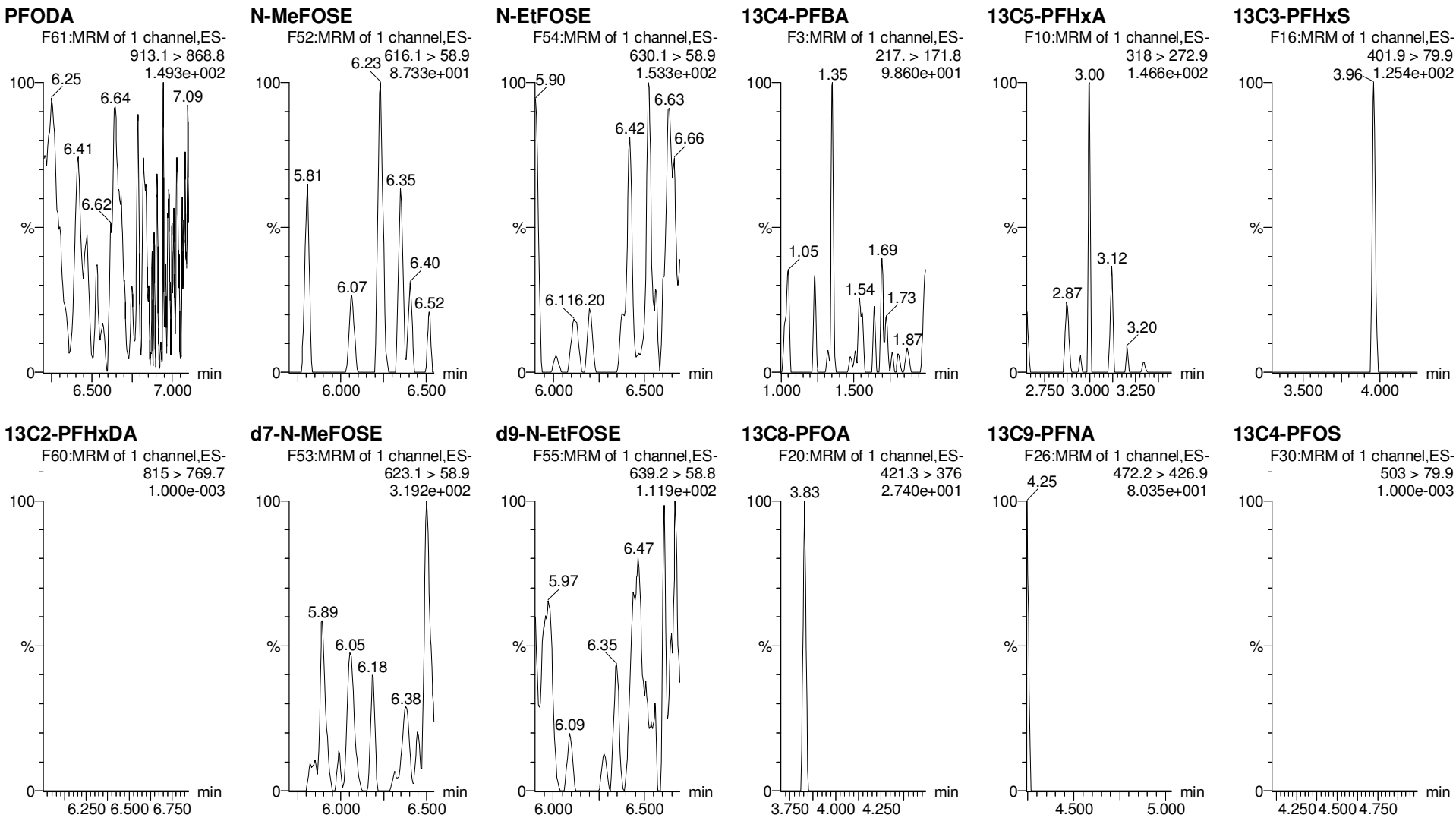
Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Friday, November 03, 2017 15:14:25 Pacific Daylight Time

Printed:       Friday, November 03, 2017 15:15:10 Pacific Daylight Time

Name: 171103M1\_3, Date: 03-Nov-2017, Time: 13:46:25, ID: IPA, Description: IPA



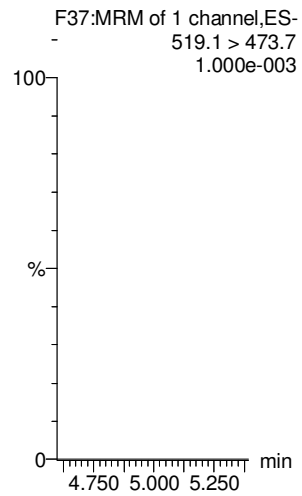
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Last Altered:   Friday, November 03, 2017 15:14:25 Pacific Daylight Time

Printed:       Friday, November 03, 2017 15:15:10 Pacific Daylight Time

**Name: 171103M1\_3, Date: 03-Nov-2017, Time: 13:46:25, ID: IPA, Description: IPA**

**13C6-PFDA**



Dataset: U:\Q4.PRO\results\171103M1\171103M1-2.qld

Last Altered: Friday, November 03, 2017 14:24:40 Pacific Daylight Time

Printed: Friday, November 03, 2017 14:26:24 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 01 Nov 2017 11:32:51

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	6.59e2	7.15e3		1.17	1.07	1.15	1.04	104.1
2	2 PFPeA	263.1 > 218.9	6.41e2	7.67e3		2.15	2.02	1.04	0.996	99.6
3	3 PFBS	299.0 > 79.7	1.52e2	9.21e2		2.44	2.32	2.07	0.930	93.0
4	4 PFHxA	313.2 > 268.9	9.72e2	3.04e3		2.93	2.81	1.60	0.995	99.5
5	5 PFHpA	363.0 > 318.9	7.67e2	6.96e3		3.56	3.44	1.38	0.971	97.1
6	6 L-PFHxS	398.9 > 79.6	1.02e2	7.00e2		3.71	3.59	1.82	0.864	86.4
7	8 6:2 FTS	427.1 > 407	1.55e2	2.04e3		4.03	3.90	0.952	0.990	99.0
8	9 L-PFOA	413 > 368.7	9.76e2	9.65e3		4.05	3.96	1.26	1.00	100.4
9	11 PFHpS	449 > 80.0	1.81e2	9.65e3		4.20	4.08	0.234	1.26	126.2
10	12 PFNA	463.0 > 418.8	7.62e2	9.25e3		4.55	4.41	1.03	0.856	85.6
11	13 PFOSA	498.1 > 77.8	2.17e2	2.10e3		4.59	4.46	1.29	1.17	117.0
12	14 L-PFOS	499 > 79.9	1.67e2	2.39e3		4.63	4.50	0.872	0.898	89.8
13	16 PFDA	513 > 468.8	1.04e3	8.85e3		4.92	4.80	1.46	1.12	111.8
14	17 8:2 FTS	527 > 506.9	1.92e2	1.32e3		4.89	4.76	1.81	1.30	129.9
15	18 N-MeFOSAA	570.1 > 419	3.94e2	3.36e3		5.08	4.96	1.47	0.921	92.1
16	19 N-EtFOSAA	584.2 > 419	3.97e2	4.06e3		5.24	5.11	1.22	1.05	105.2
17	20 PFUdA	563.0 > 518.9	8.92e2	1.05e4		5.25	5.13	1.06	1.03	102.5
18	21 PFDS	598.8 > 80	2.12e2	1.05e4		5.31	5.18	0.252	1.29	129.1
19	22 PFDoA	612.9 > 569.0	9.66e2	9.87e3		5.55	5.43	1.22	0.925	92.5
20	23 N-MeFOSA	512.1 > 168.9	3.86e2	1.08e4		5.56	5.50	5.35	5.06	101.2
21	24 PFTTrDA	662.9 > 618.9	8.17e2	9.87e3		5.80	5.68	1.03	0.808	80.8
22	25 PFTeDA	712.9 > 668.8	8.42e2	9.54e3		6.02	5.90	1.10	0.857	85.7
23	26 N-EtFOSA	526.1 > 168.9	5.59e2	1.72e4		6.01	5.96	4.87	4.82	96.4
24	27 PFHxDA	813.1 > 768.6	5.79e2	3.74e3		6.32	6.27	0.773	1.16	116.3
25	28 PFODA	913.1 > 868.8	2.85e2	3.74e3		6.61	6.52	0.380	0.989	98.9
26	29 N-MeFOSE	616.1 > 58.9	5.65e2	1.52e4		6.23	6.19	5.56	5.48	109.7
27	30 N-EtFOSE	630.1 > 58.9	4.83e2	1.44e4		6.39	6.35	5.04	4.20	84.0
28	31 13C3-PFBA	216.1 > 171.8	7.15e3	7.34e3	0.949	1.17	1.07	12.2	12.8	102.8
29	32 13C3-PFPeA	266. > 221.8	7.67e3	9.41e3	0.781	2.15	2.02	10.2	13.1	104.4
30	33 13C3-PFBS	302. > 98.8	9.21e2	9.41e3	0.089	2.44	2.32	1.22	13.8	110.5
31	Work Order 13C2701439	315 > 269.8	3.04e3	9.41e3	0.755	2.93	2.81	4.04	5.35	107.0

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Dataset: U:\Q4.PRO\results\171103M1\171103M1-2.qld

Last Altered: Friday, November 03, 2017 14:24:40 Pacific Daylight Time

Printed: Friday, November 03, 2017 14:26:24 Pacific Daylight Time

Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	6.96e3	9.41e3	0.711	3.56	3.43	9.25	13.0	104.1
33	36 18O2-PFHxS	403.0 > 102.6	7.00e2	1.71e3	0.423	3.71	3.59	5.11	12.1	96.6
34	37 13C2-6:2 FTS	429.1 > 408.9	2.04e3	7.90e3	0.286	4.03	3.90	3.23	11.3	90.4
35	38 13C2-PFOA	414.9 > 369.7	9.65e3	7.90e3	1.310	4.05	3.96	15.3	11.7	93.3
36	39 13C5-PFNA	468.2 > 422.9	9.25e3	8.20e3	0.979	4.55	4.41	14.1	14.4	115.3
37	40 13C8-PFOSA	506.1 > 77.7	2.10e3	9.08e3	0.207	4.59	4.46	2.89	14.0	111.7
38	41 13C8-PFOS	507.0 > 79.9	2.39e3	2.24e3	1.072	4.63	4.50	13.3	12.4	99.3
39	42 13C2-PFDA	515.1 > 469.9	8.85e3	8.30e3	1.014	4.92	4.80	13.3	13.1	105.1
40	43 13C2-8:2 FTS	529.1 > 508.7	1.32e3	8.30e3	0.216	4.89	4.76	1.99	9.20	73.6
41	44 d3-N-MeFOSAA	573.3 > 419	3.36e3	9.08e3	0.368	5.08	4.95	4.62	12.6	100.5
42	45 d5-N-ElFOSAA	589.3 > 419	4.06e3	9.08e3	0.389	5.24	5.11	5.59	14.4	115.1
43	46 13C2-PFUDa	565 > 519.8	1.05e4	9.08e3	0.983	5.25	5.13	14.4	14.7	117.6
44	47 13C2-PFDoA	615.0 > 569.7	9.87e3	9.08e3	0.997	5.55	5.42	13.6	13.6	109.1
45	48 d3-N-MeFOSA	515.2 > 168.9	1.08e4	9.08e3	0.096	5.56	5.53	14.9	156	103.7
46	49 13C2-PFTeDA	714.8 > 669.6	9.54e3	9.08e3	1.039	6.02	5.90	13.1	12.6	101.1
47	50 d5-N-ETFOSA	531.1 > 168.9	1.72e4	9.08e3	0.144	6.01	5.98	23.7	165	109.8
48	51 13C2-PFHxDA	815 > 769.7	3.74e3	9.08e3	1.032	6.32	6.27	5.16	4.99	99.9
49	52 d7-N-MeFOSE	623.1 > 58.9	1.52e4	9.08e3	0.133	6.23	6.19	21.0	158	105.2
50	53 d9-N-ElFOSE	639.2 > 58.8	1.44e4	9.08e3	0.128	6.39	6.34	19.8	155	103.2
51	54 13C4-PFBA	217. > 171.8	7.34e3	7.34e3	1.000	1.17	1.07	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	9.41e3	9.41e3	1.000	2.93	2.81	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	1.71e3	1.71e3	1.000	3.71	3.59	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	7.90e3	7.90e3	1.000	4.05	3.96	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	8.20e3	8.20e3	1.000	4.55	4.41	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	2.24e3	2.24e3	1.000	4.63	4.50	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.30e3	8.30e3	1.000	4.92	4.80	12.5	12.5	100.0
58	61 13C7-PFUDa	570.1 > 524.8	9.08e3	9.08e3	1.000	5.25	5.13	12.5	12.5	100.0

20-150



Dataset:        Untitled

Last Altered:    Friday, November 03, 2017 15:33:44 Pacific Daylight Time

Printed:        Friday, November 03, 2017 15:34:28 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

Compound name: PFBA

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2	171103M1_2	ST171103M1-1 PFC CS0 17J2807	03-Nov-17	13:35:14
3	171103M1_3	IPA	03-Nov-17	13:46:25
4	171103M1_4	1701439-03 FRB04_20171005 0.125	03-Nov-17	13:57:38
5	171103M1_5	1701439-05 FRB06_20171006 0.125	03-Nov-17	14:08:50
6	171103M1_6	B7J0136-MS2@5X Matrix Spike 1.12	03-Nov-17	14:20:00
7	171103M1_7	B7J0136-MSD2@5X Matrix Spike Dup 1.18	03-Nov-17	14:31:11
8	171103M1_8	B7J0136-MSD2 Matrix Spike Dup 1.18	03-Nov-17	14:42:22
9	171103M1_9	1701528-05@30X STWRT-RPTSW01 0.11748	03-Nov-17	14:54:57
10	171103M1_10	IPA	03-Nov-17	15:06:05
11	171103M1_11	ST171103M1-2 PFC CS3 17J2810	03-Nov-17	15:17:27
12	171103M1_12	IPA	03-Nov-17	15:28:59

# LC Calibration Standards Review Checklist

021

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↓ -2 (L M H)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Full Mass Cal. Date: 6/21/17

Run Log Present: ☒

# of Samples per Sequence Checked: ☒

Reviewed By: JA.11/03/2017  
Initials/Date

Comments:

Full - OLD

Dataset: U:\Q4.PRO\results\171103M1\171103M1-2.qld

Last Altered: Friday, November 03, 2017 14:24:40 Pacific Daylight Time

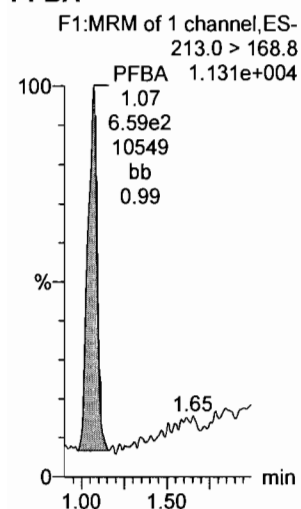
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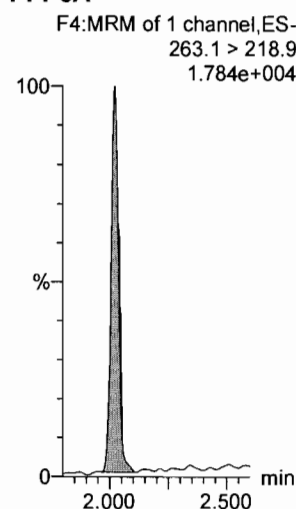
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Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

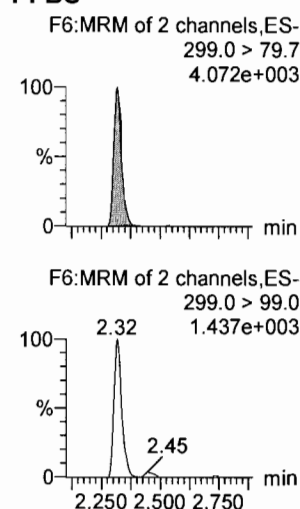
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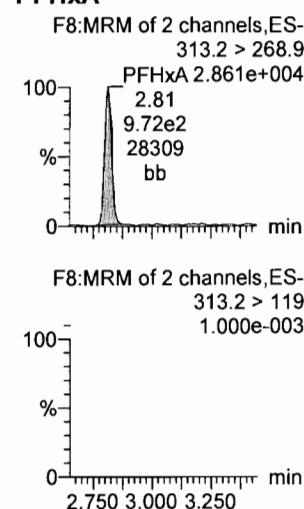
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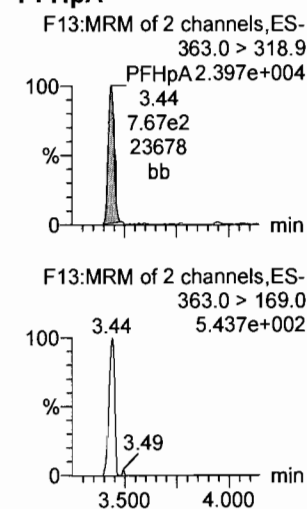
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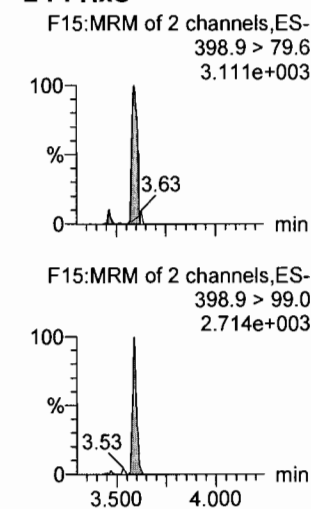
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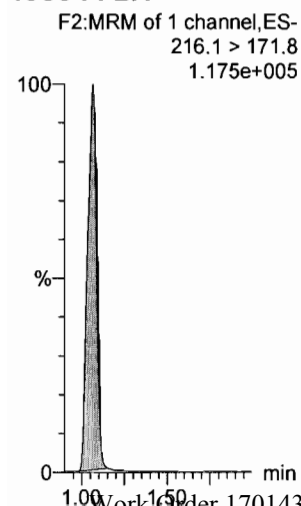
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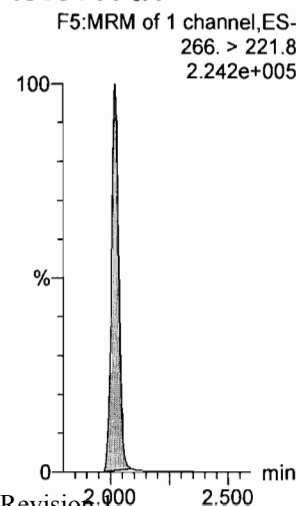
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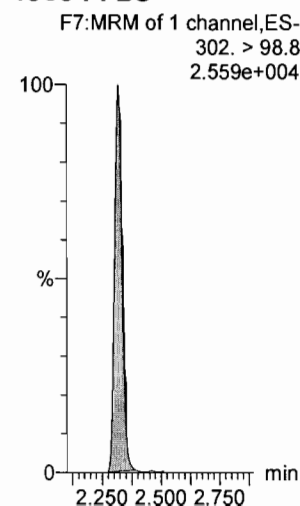
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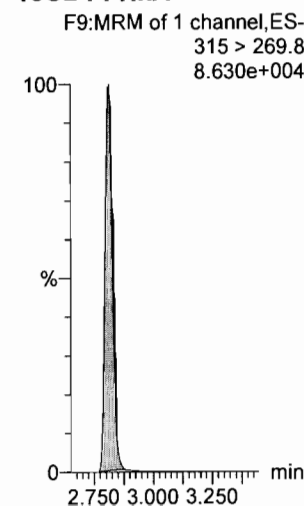
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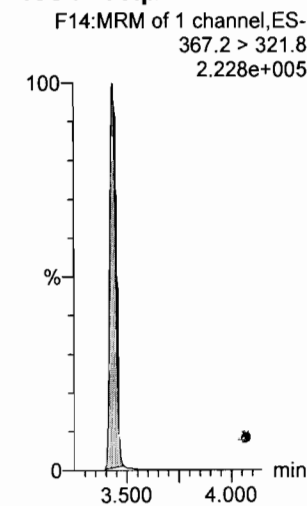
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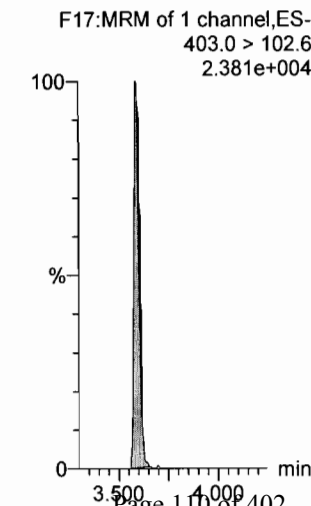
#### 13C2-PFHxA



#### 13C4-PFHpA



#### 18O2-PFHxS



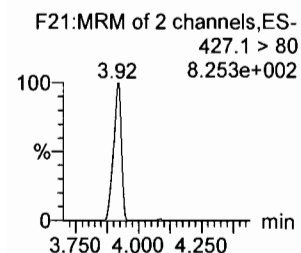
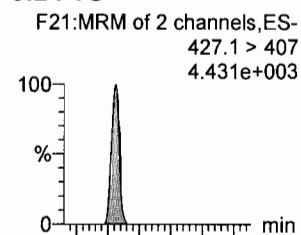
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Last Altered: Friday, November 03, 2017 14:24:40 Pacific Daylight Time

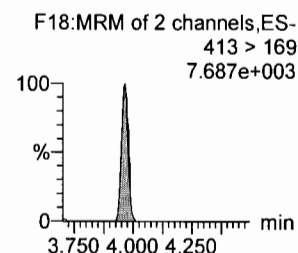
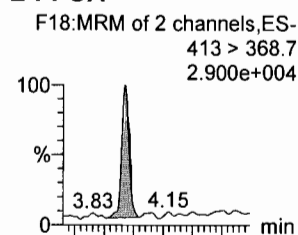
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Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

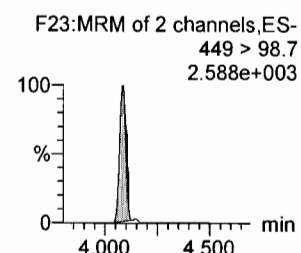
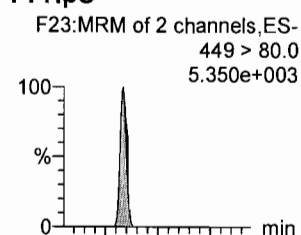
### 6:2 FTS



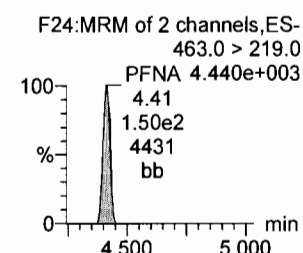
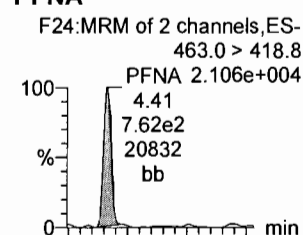
### L-PFOA



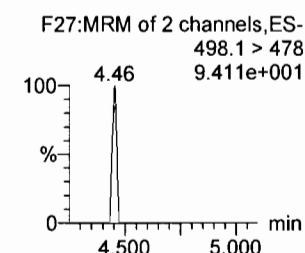
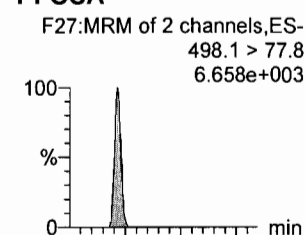
### PFHpS



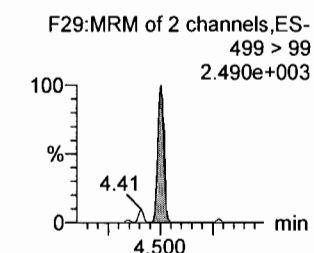
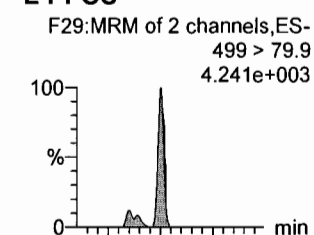
### PFNA



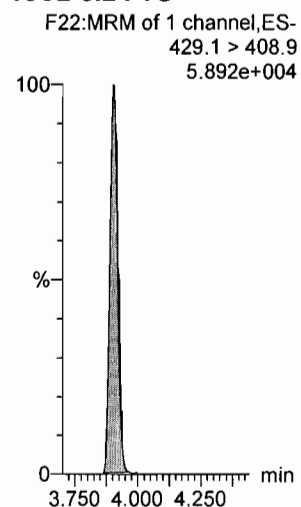
### PFOSA



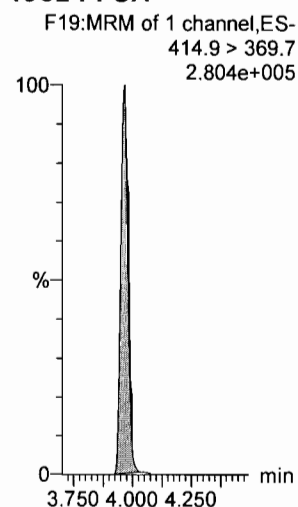
### L-PFOS



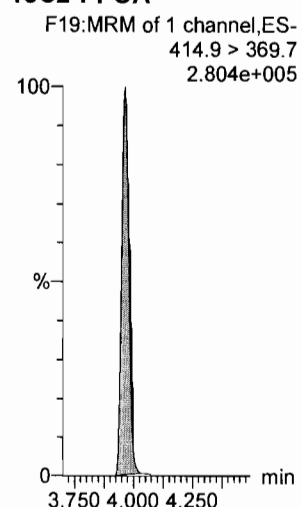
### 13C2-6:2 FTS



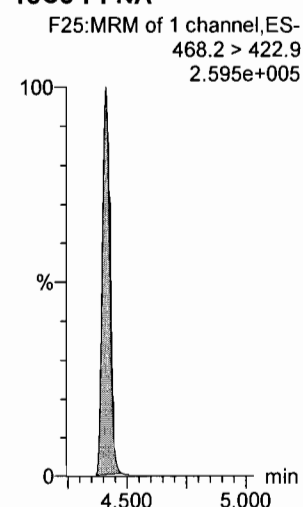
### 13C2-PFOA



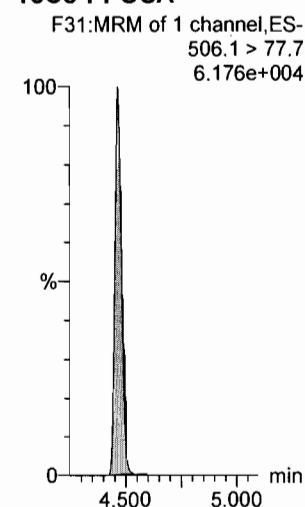
### 13C2-PFOA



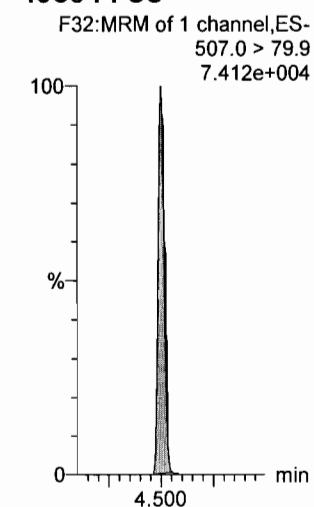
### 13C5-PFNA



### 13C8-PFOSA



### 13C8-PFOS



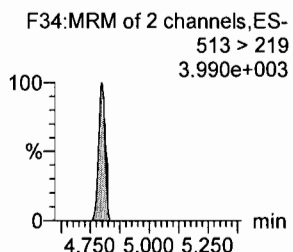
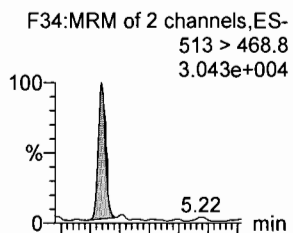
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Last Altered: Friday, November 03, 2017 14:24:40 Pacific Daylight Time

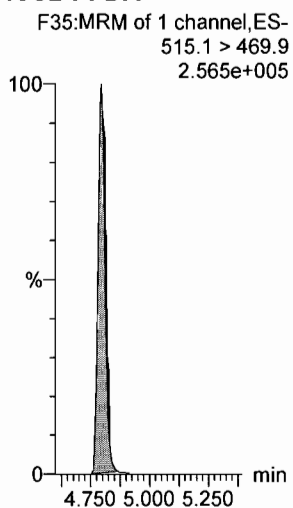
Printed: Friday, November 03, 2017 14:26:24 Pacific Daylight Time

Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

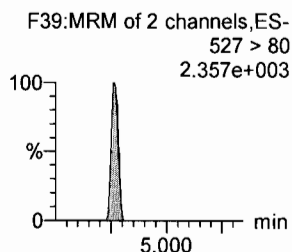
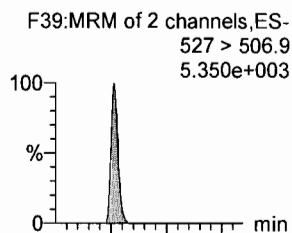
**PFDA**



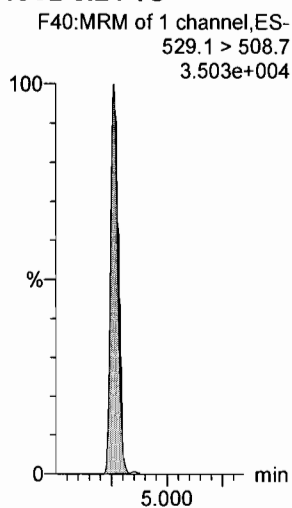
**13C2-PFDA**



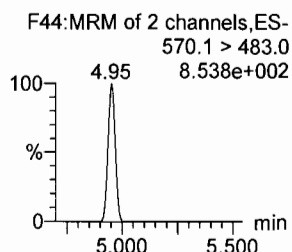
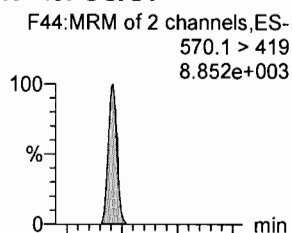
**8:2 FTS**



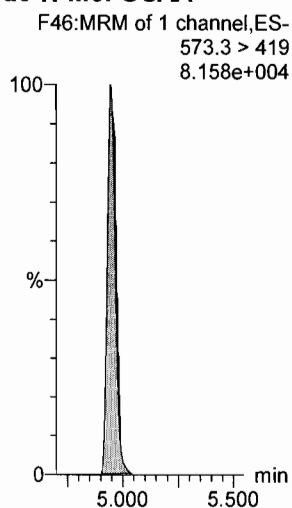
**13C2-8:2 FTS**



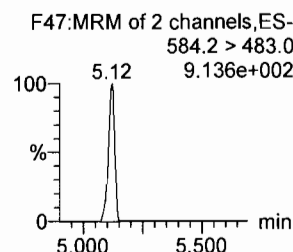
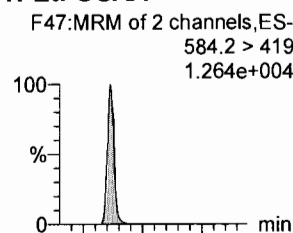
**N-MeFOSAA**



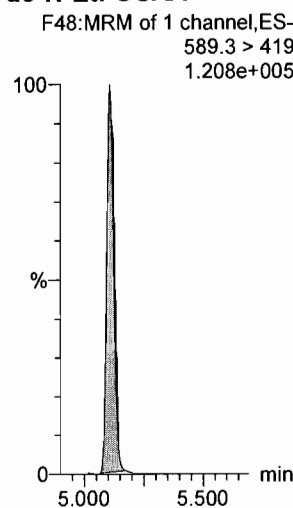
**d3-N-MeFOSAA**



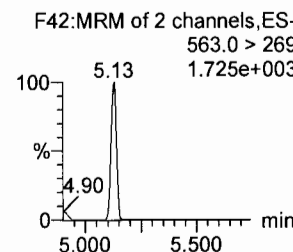
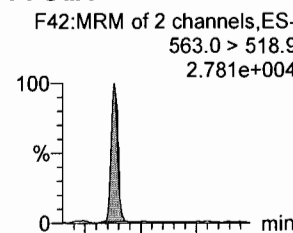
**N-EtFOSAA**



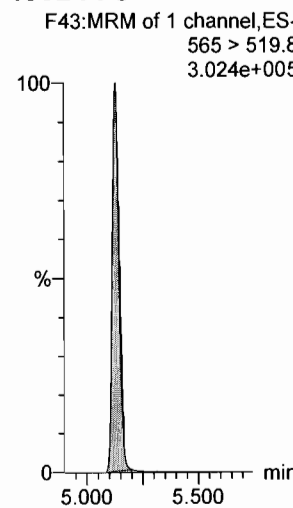
**d5-N-EtFOSAA**



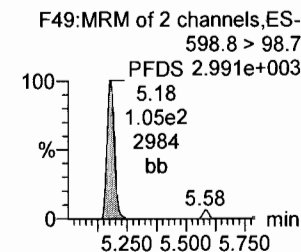
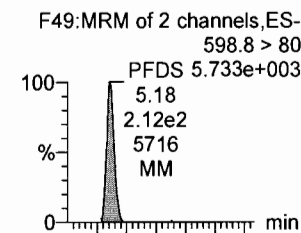
**PFUdA**



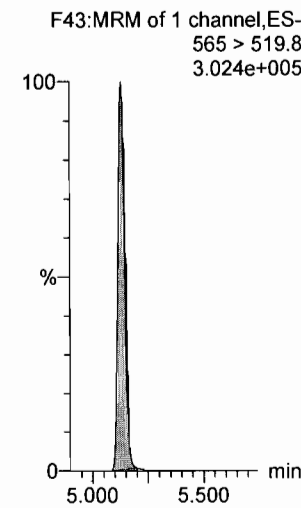
**13C2-PFUdA**



**PFDS**



**13C2-PFUdA**



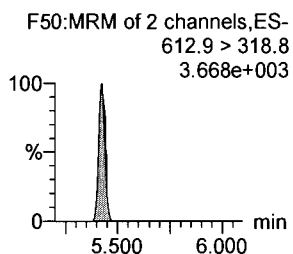
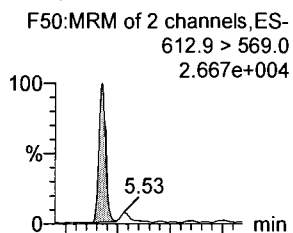
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Last Altered: Friday, November 03, 2017 14:24:40 Pacific Daylight Time

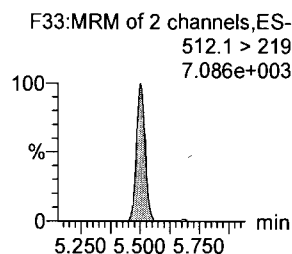
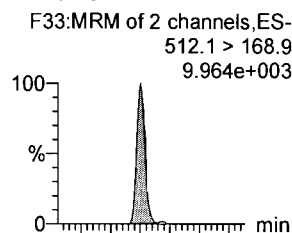
Printed: Friday, November 03, 2017 14:26:24 Pacific Daylight Time

Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

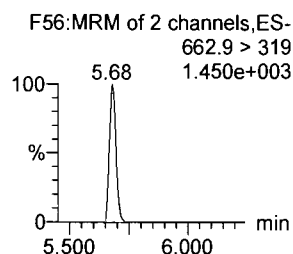
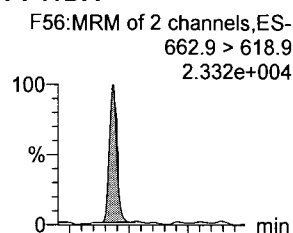
**PFDaA**



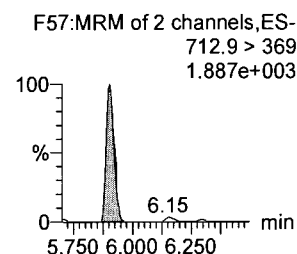
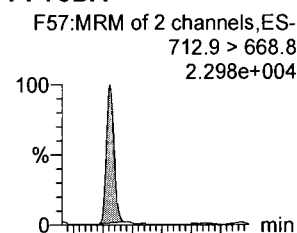
**N-MeFOSA**



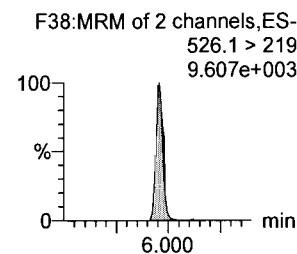
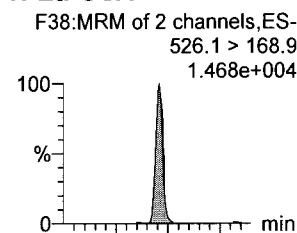
**PFTTrDA**



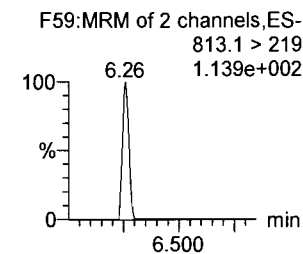
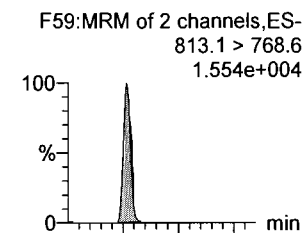
**PFTeDA**



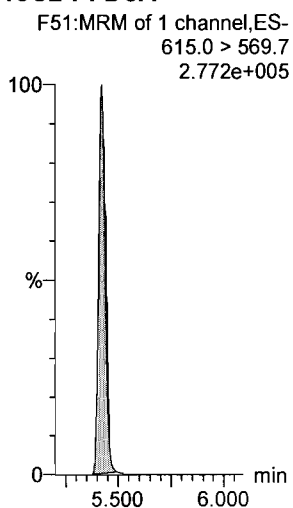
**N-EtFOSA**



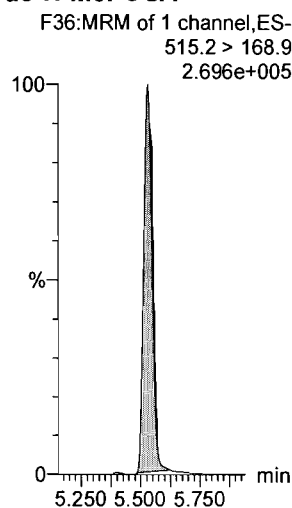
**PFHxDA**



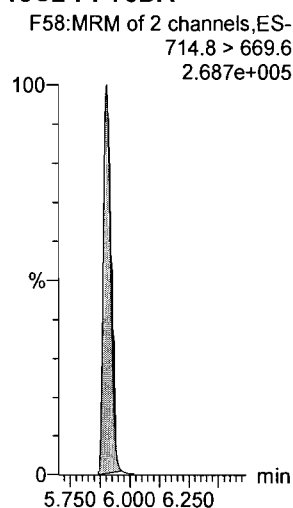
**13C2-PFDaA**



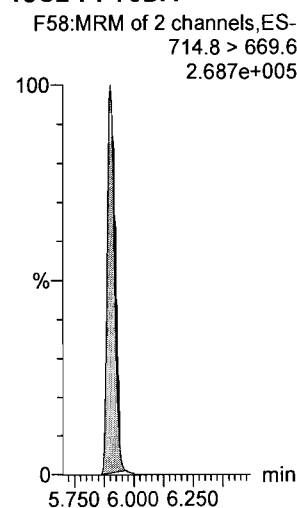
**d3-N-MeFOSA**



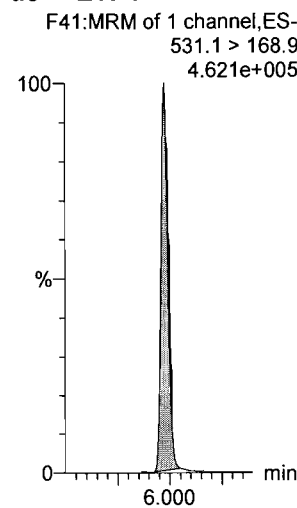
**13C2-PFTeDA**



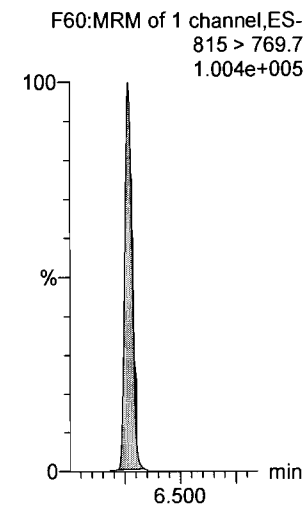
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



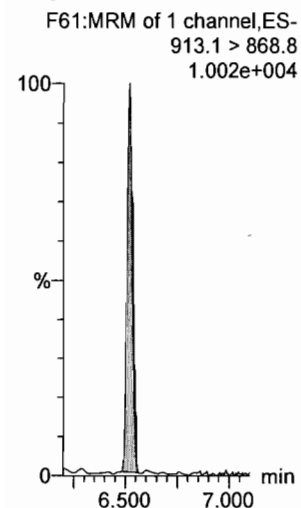
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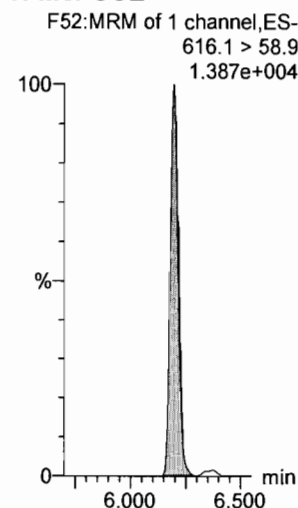
Printed: Friday, November 03, 2017 14:26:24 Pacific Daylight Time

Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

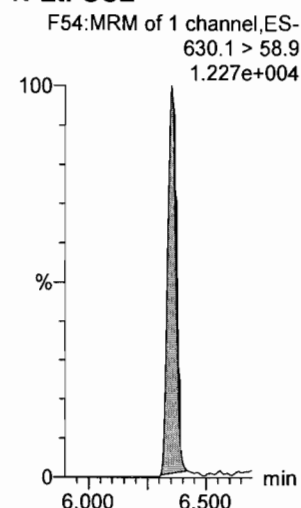
**PFODA**



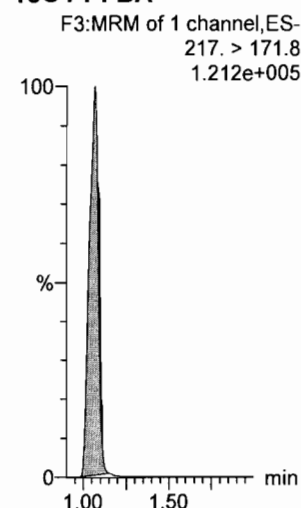
**N-MeFOSE**



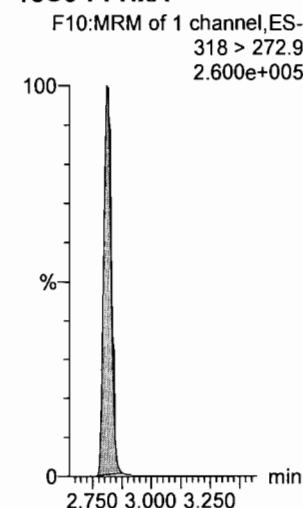
**N-EtFOSE**



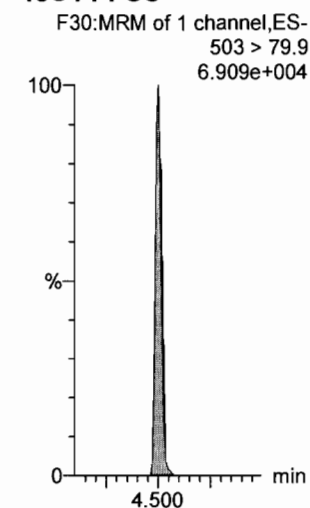
**13C4-PFBA**



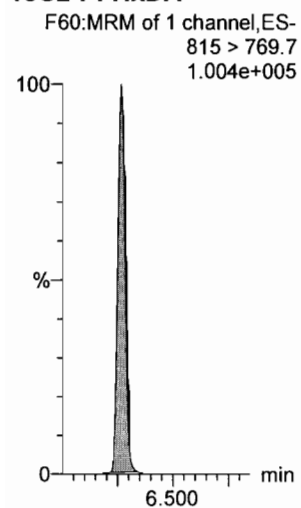
**13C5-PFHxA**



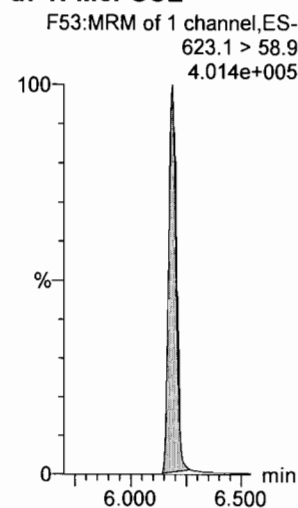
**13C4-PFOS**



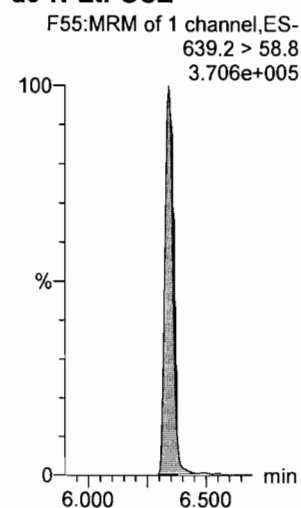
**13C2-PFHxDA**



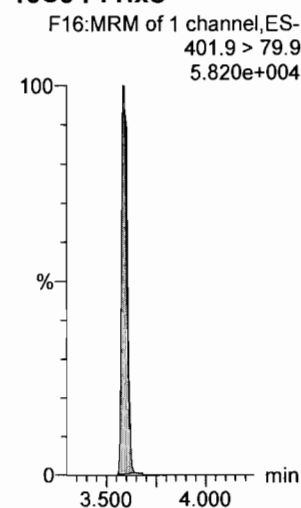
**d7-N-MeFOSE**



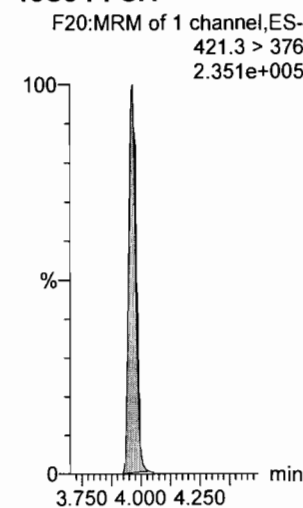
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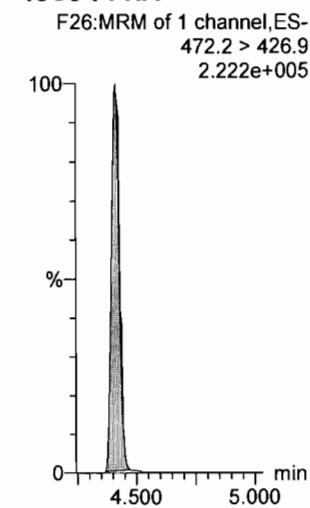
**13C3-PFHxS**



**13C8-PFOA**



**13C9-PFNA**



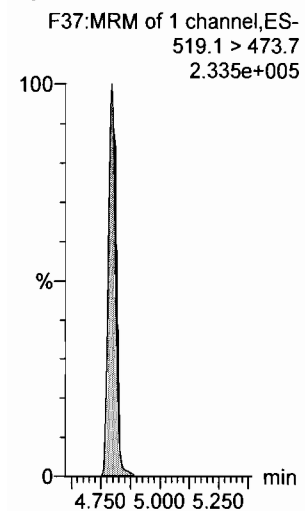
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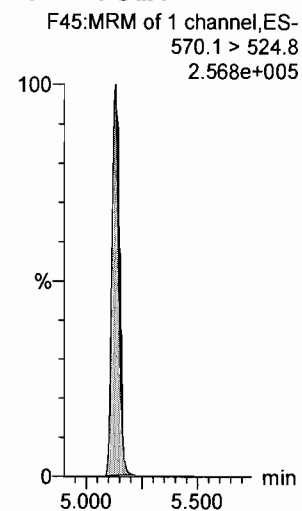
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Name: 171103M1\_2, Date: 03-Nov-2017, Time: 13:35:14, ID: ST171103M1-1 PFC CS0 17J2807, Description: PFC CS0 17J2807

13C6-PFDA



13C7-PFUDa





Dataset: U:\Q4.PRO\results\171103M1\171103M1-113.qld

Last Altered: Friday, November 03, 2017 15:31:35 Pacific Daylight Time

Printed: Friday, November 03, 2017 15:31:46 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 01 Nov 2017 11:32:51

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	6.42e3	7.20e3		1.17	1.07	11.2	10.4	104.0
2	2 PFPeA	263.1 > 218.9	6.38e3	7.78e3		2.15	2.03	10.3	10.7	106.9
3	3 PFBS	299.0 > 79.7	1.66e3	8.58e2		2.44	2.32	24.2	11.9	119.3
4	4 PFHxA	313.2 > 268.9	9.21e3	3.06e3		2.93	2.81	15.1	10.6	105.9
5	5 PFHpA	363.0 > 318.9	7.34e3	6.76e3		3.56	3.44	13.6	10.4	104.2
6	6 L-PFHxS	398.9 > 79.6	1.31e3	7.49e2		3.71	3.59	21.9	10.8	108.0
7	8 6:2 FTS	427.1 > 407	1.84e3	2.26e3		4.03	3.90	10.2	10.8	108.1
8	9 L-PFOA	413 > 368.7	7.95e3	9.99e3		4.05	3.96	9.95	10.2	102.1
9	11 PFHpS	449 > 80.0	1.46e3	9.99e3		4.20	4.09	1.82	9.93	99.3
10	12 PFNA	463.0 > 418.8	9.25e3	9.14e3		4.55	4.41	12.6	10.1	101.0
11	13 PFOSA	498.1 > 77.8	1.75e3	1.95e3		4.59	4.47	11.2	10.4	104.2
12	14 L-PFOS	499 > 79.9	1.71e3	2.20e3		4.63	4.50	9.69	9.56	95.6
13	16 PFDA	513 > 468.8	9.67e3	9.08e3		4.92	4.80	13.3	10.4	103.7
14	17 8:2 FTS	527 > 506.9	2.38e3	1.98e3		4.89	4.76	15.1	10.6	106.1
15	18 N-MeFOSAA	570.1 > 419	4.78e3	4.45e3		5.08	4.95	13.4	9.25	92.5
16	19 N-EtFOSAA	584.2 > 419	4.03e3	4.01e3		5.24	5.11	12.6	10.7	107.0
17	20 PFUdA	563.0 > 518.9	7.58e3	9.91e3		5.25	5.13	9.55	9.85	98.5
18	21 PFDS	598.8 > 80	1.66e3	9.91e3		5.31	5.18	2.09	9.41	94.1
19	22 PFDoA	612.9 > 569.0	1.04e4	1.08e4		5.55	5.42	12.1	9.78	97.8
20	23 N-MeFOSA	512.1 > 168.9	3.58e3	9.84e3		5.56	5.51	54.5	54.6	109.2
21	24 PFTTrDA	662.9 > 618.9	9.30e3	1.08e4		5.80	5.68	10.8	8.44	84.4
22	25 PFTeDA	712.9 > 668.8	6.91e3	8.60e3		6.02	5.90	10.1	7.83	78.3
23	26 N-EtFOSA	526.1 > 168.9	4.95e3	1.56e4		6.01	5.96	47.5	51.8	103.6
24	27 PFHxDA	813.1 > 768.6	3.94e3	3.68e3		6.32	6.27	5.35	9.20	92.0
25	28 PFODA	913.1 > 868.8	2.28e3	3.68e3		6.61	6.52	3.09	7.51	75.1
26	29 N-MeFOSE	616.1 > 58.9	4.67e3	1.71e4		6.23	6.20	41.0	44.4	88.9
27	30 N-EtFOSE	630.1 > 58.9	5.71e3	1.52e4		6.39	6.35	56.3	55.2	110.4
28	31 13C3-PFBA	216.1 > 171.8	7.20e3	7.57e3	0.949	1.17	1.07	11.9	12.5	100.2
29	32 13C3-PFPeA	266. > 221.8	7.78e3	1.06e4	0.781	2.15	2.03	9.21	11.8	94.3
30	33 13C3-PFBS	302. > 98.8	8.58e2	1.06e4	0.089	2.44	2.32	1.02	11.5	91.8
31	34 13C3-PFHxA	315 > 269.8	3.06e3	1.06e4	0.755	2.93	2.81	3.62	4.80	96.0

70-130

DM  
11/3/17

YJA  
11/03/2017

50-150

Dataset: U:\Q4.PRO\results\171103M1\171103M1-113.qld

Last Altered: Friday, November 03, 2017 15:31:35 Pacific Daylight Time

Printed: Friday, November 03, 2017 15:31:46 Pacific Daylight Time

Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	6.76e3	1.06e4	0.711	3.56	3.44	8.00	11.3	90.0
33	36 18O2-PFHxS	403.0 > 102.6	7.49e2	1.82e3	0.423	3.71	3.59	5.13	12.1	97.0
34	37 13C2-6:2 FTS	429.1 > 408.9	2.26e3	6.90e3	0.286	4.03	3.91	4.10	14.3	114.8
35	38 13C2-PFOA	414.9 > 369.7	9.99e3	6.90e3	1.310	4.05	3.96	18.1	13.8	110.6
36	39 13C5-PFNA	468.2 > 422.9	9.14e3	9.52e3	0.979	4.55	4.41	12.0	12.3	98.0
37	40 13C8-PFOSA	506.1 > 77.7	1.95e3	9.81e3	0.207	4.59	4.47	2.49	12.0	96.3
38	41 13C8-PFOS	507.0 > 79.9	2.20e3	2.00e3	1.072	4.63	4.50	13.8	12.9	102.9
39	42 13C2-PFDA	515.1 > 469.9	9.08e3	8.56e3	1.014	4.92	4.80	13.3	13.1	104.6
40	43 13C2-8:2 FTS	529.1 > 508.7	1.98e3	8.56e3	0.216	4.89	4.76	2.89	13.4	107.0
41	44 d3-N-MeFOSAA	573.3 > 419	4.45e3	9.81e3	0.368	5.08	4.95	5.66	15.4	123.1
42	45 d5-N-EtFOSAA	589.3 > 419	4.01e3	9.81e3	0.389	5.24	5.11	5.10	13.1	105.1
43	46 13C2-PFUDa	565 > 519.8	9.91e3	9.81e3	0.983	5.25	5.13	12.6	12.8	102.8
44	47 13C2-PFDoA	615.0 > 569.7	1.08e4	9.81e3	0.997	5.55	5.42	13.7	13.8	110.0
45	48 d3-N-MeFOSA	515.2 > 168.9	9.84e3	9.81e3	0.096	5.56	5.53	12.5	131	87.4
46	49 13C2-PFTeDA	714.8 > 669.6	8.60e3	9.81e3	1.039	6.02	5.91	10.9	10.5	84.3
47	50 d5-N-ETFOSA	531.1 > 168.9	1.56e4	9.81e3	0.144	6.01	5.98	19.9	138	92.1
48	51 13C2-PFHxDA	815 > 769.7	3.68e3	9.81e3	1.032	6.32	6.27	4.69	4.54	90.8
49	52 d7-N-MeFOSE	623.1 > 58.9	1.71e4	9.81e3	0.133	6.23	6.19	21.7	163	108.9
50	53 d9-N-EtFOSE	639.2 > 58.8	1.52e4	9.81e3	0.128	6.39	6.34	19.4	152	101.2
51	54 13C4-PFBA	217. > 171.8	7.57e3	7.57e3	1.000	1.17	1.07	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	1.06e4	1.06e4	1.000	2.93	2.81	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	1.82e3	1.82e3	1.000	3.71	3.59	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	6.90e3	6.90e3	1.000	4.05	3.96	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	9.52e3	9.52e3	1.000	4.55	4.41	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	2.00e3	2.00e3	1.000	4.63	4.50	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.56e3	8.56e3	1.000	4.92	4.79	12.5	12.5	100.0
58	61 13C7-PFUDa	570.1 > 524.8	9.81e3	9.81e3	1.000	5.25	5.13	12.5	12.5	100.0

SD-ISO

Dataset:        Untitled

Last Altered:    Friday, November 03, 2017 15:33:44 Pacific Daylight Time

Printed:         Friday, November 03, 2017 15:34:28 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

Compound name: PFBA

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1	171103M1_1	IPA	03-Nov-17	13:24:06
2	171103M1_2	ST171103M1-1 PFC CS0 17J2807	03-Nov-17	13:35:14
3	171103M1_3	IPA	03-Nov-17	13:46:25
4	171103M1_4	1701439-03 FRB04_20171005 0.125	03-Nov-17	13:57:38
5	171103M1_5	1701439-05 FRB06_20171006 0.125	03-Nov-17	14:08:50
6	171103M1_6	B7J0136-MS2@5X Matrix Spike 1.12	03-Nov-17	14:20:00
7	171103M1_7	B7J0136-MSD2@5X Matrix Spike Dup 1.18	03-Nov-17	14:31:11
8	171103M1_8	B7J0136-MSD2 Matrix Spike Dup 1.18	03-Nov-17	14:42:22
9	171103M1_9	1701528-05@30X STWRT-RPTSW01 0.11748	03-Nov-17	14:54:57
10	171103M1_10	IPA	03-Nov-17	15:06:05
11	171103M1_11	ST171103M1-2 PFC CS3 17J2810	03-Nov-17	15:17:27
12	171103M1_12	IPA	03-Nov-17	15:28:59

Dataset: U:\Q4.PRO\results\171103M1\171103M1-113.qld

Last Altered: Friday, November 03, 2017 15:31:35 Pacific Daylight Time

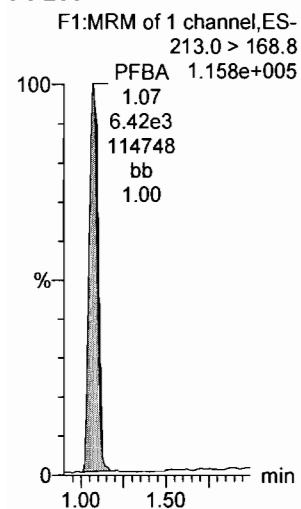
Printed: Friday, November 03, 2017 15:31:46 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 01 Nov 2017 11:32:51

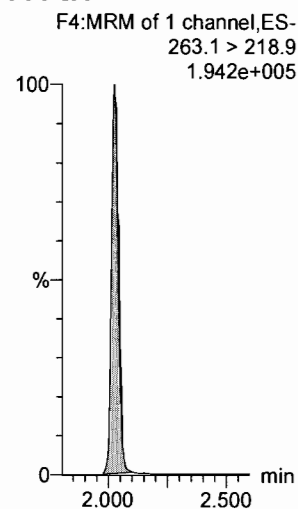
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Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810

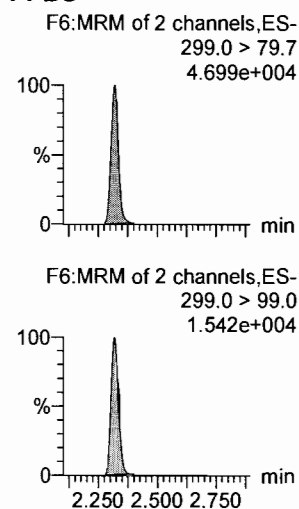
**PFBA**



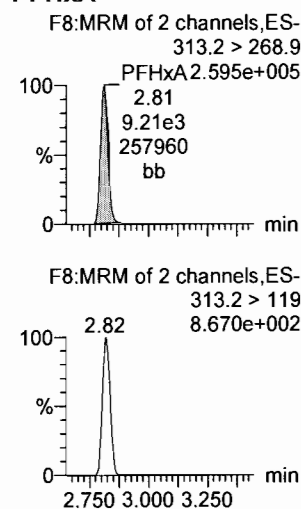
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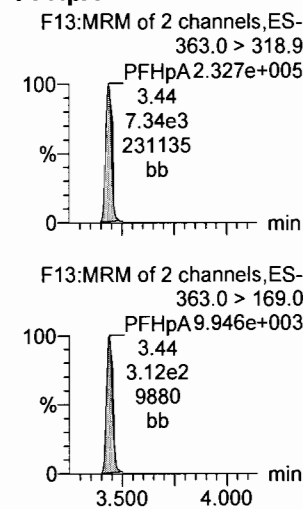
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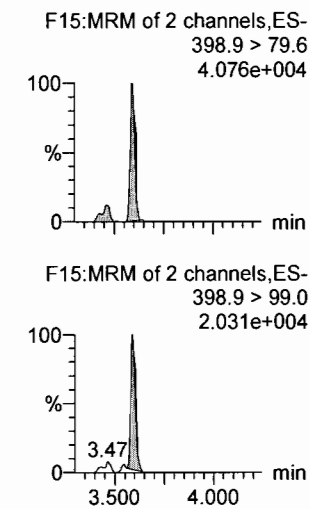
**PFHxA**



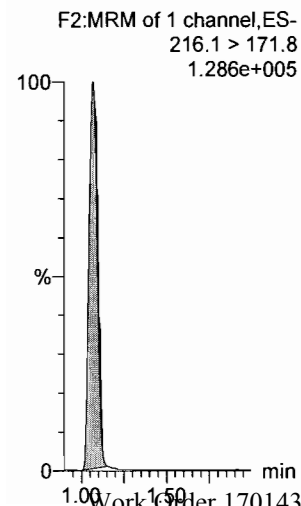
**PFHpA**



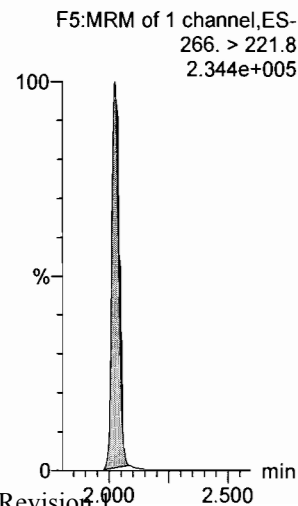
**L-PFHxS**



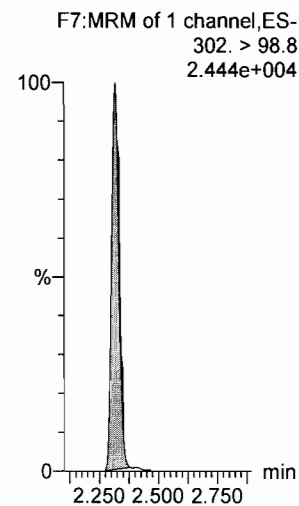
**13C3-PFBA**



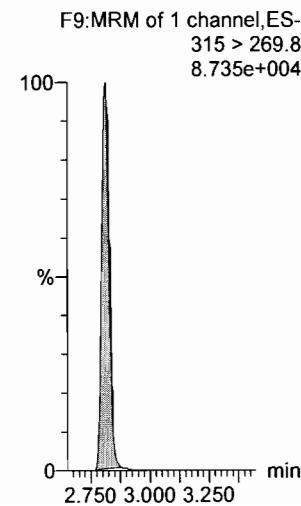
**13C3-PFPeA**



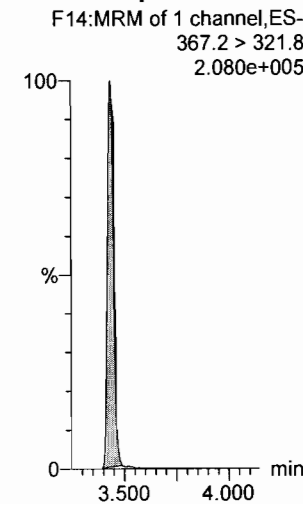
**13C3-PFBS**



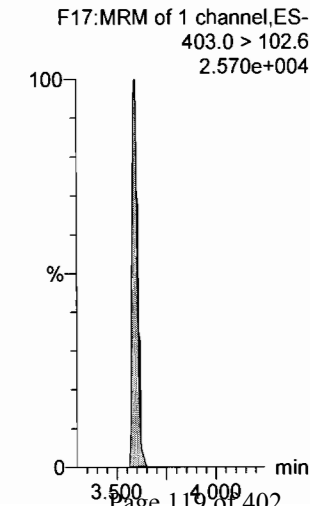
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

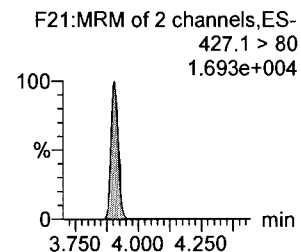
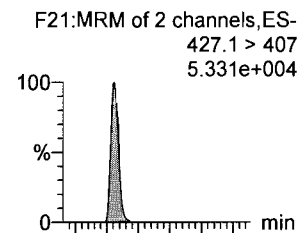


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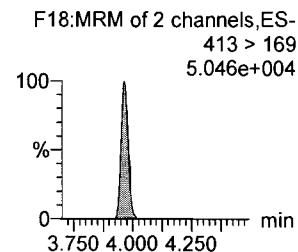
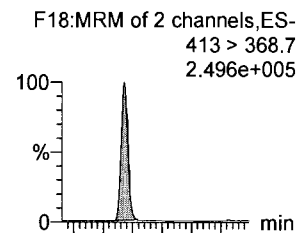
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Printed: Friday, November 03, 2017 15:31:46 Pacific Daylight Time

Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810

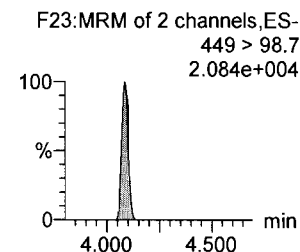
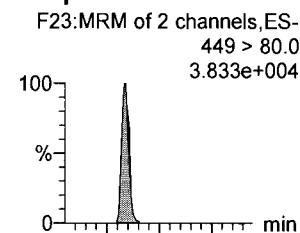
### 6:2 FTS



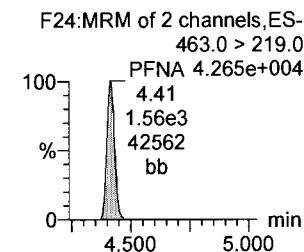
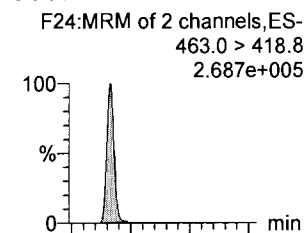
### L-PFOA



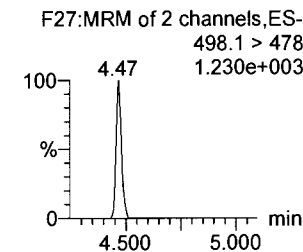
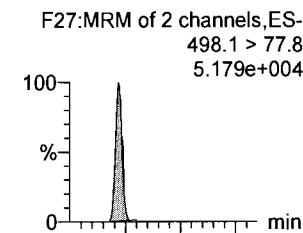
### PFHpS



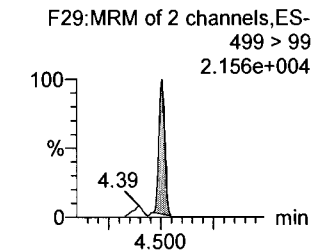
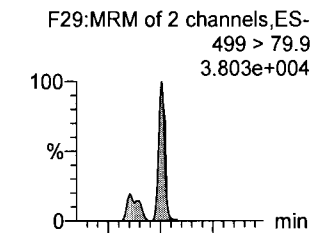
### PFNA



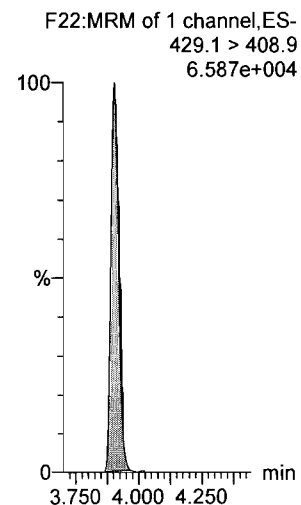
### PFOSA



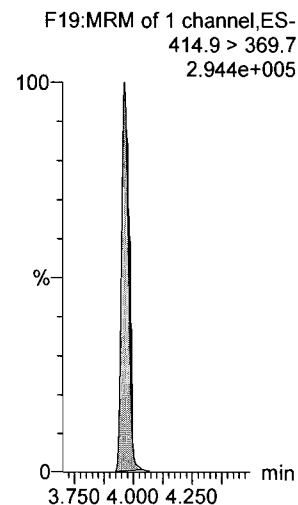
### L-PFOS



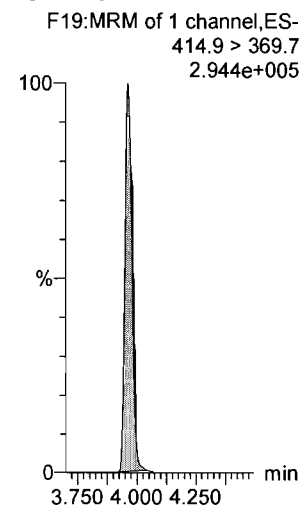
### 13C2-6:2 FTS



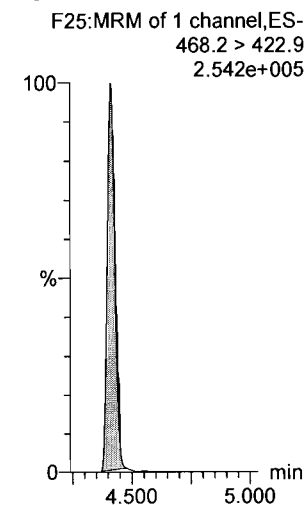
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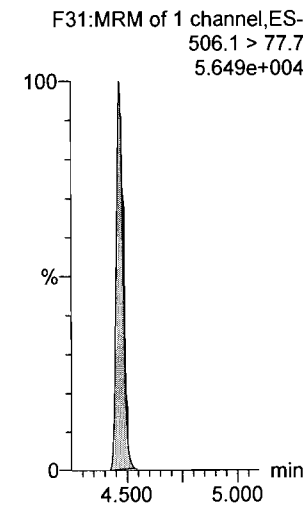
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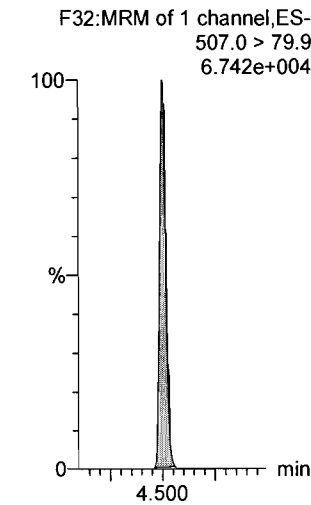
### 13C5-PFNA



### 13C8-PFOSA



### 13C8-PFOS

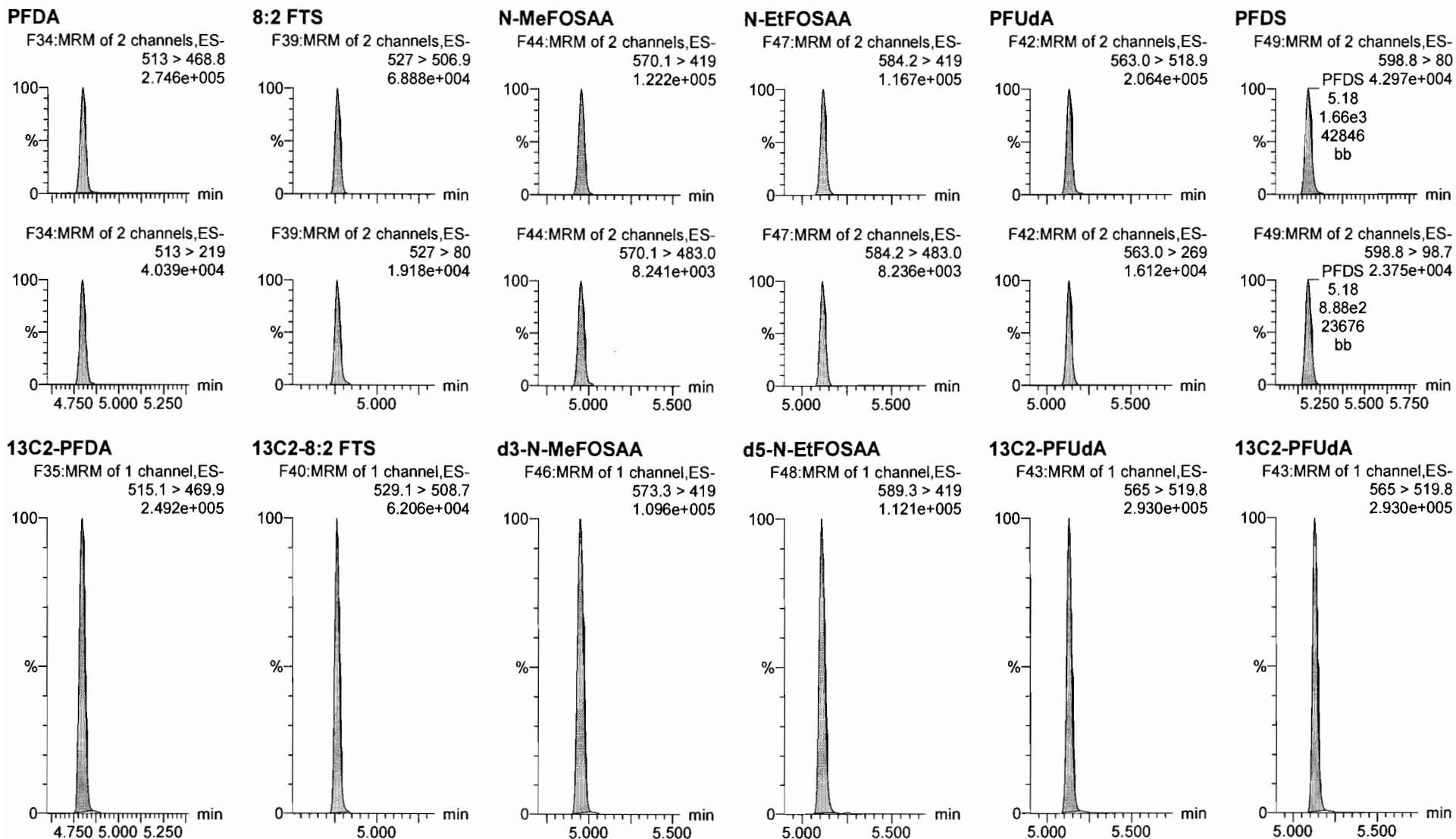


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Printed: Friday, November 03, 2017 15:31:46 Pacific Daylight Time

Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810



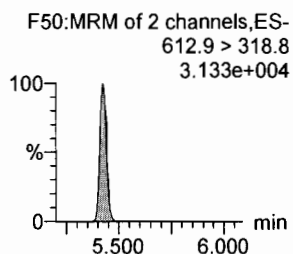
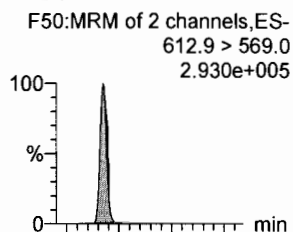
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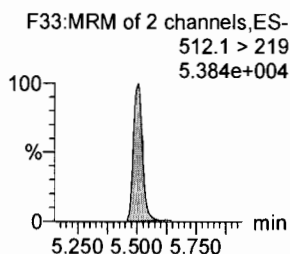
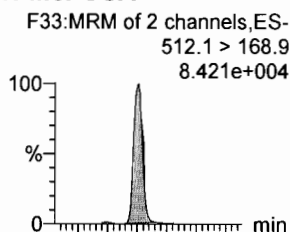
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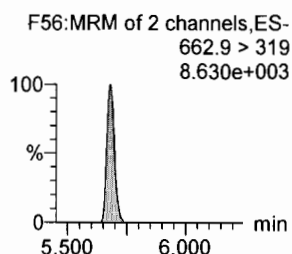
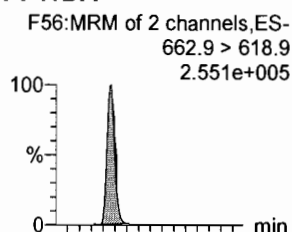
**PFD<sub>o</sub>A**



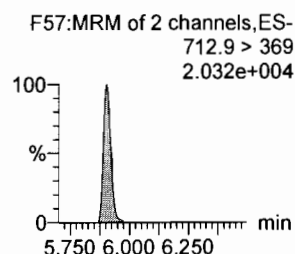
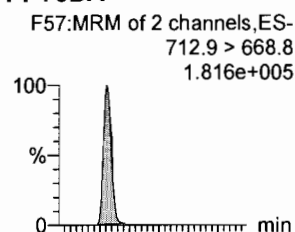
**N-MeFOSA**



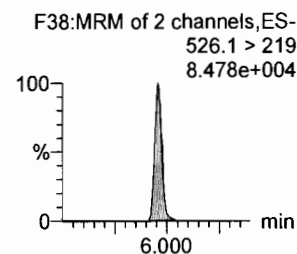
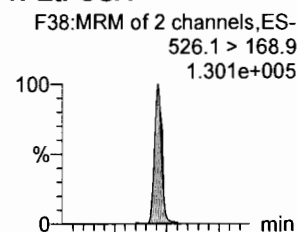
**PFT<sub>r</sub>DA**



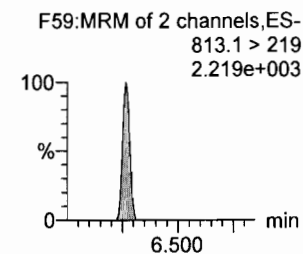
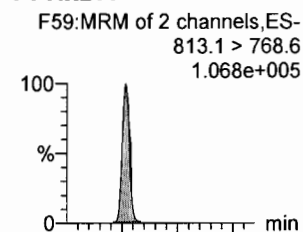
**PFT<sub>e</sub>DA**



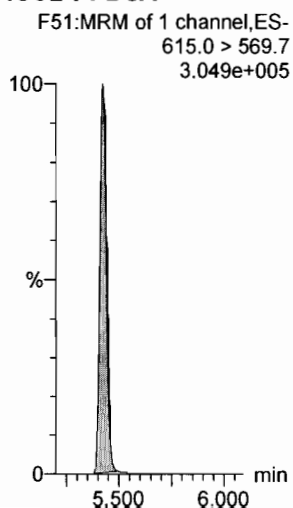
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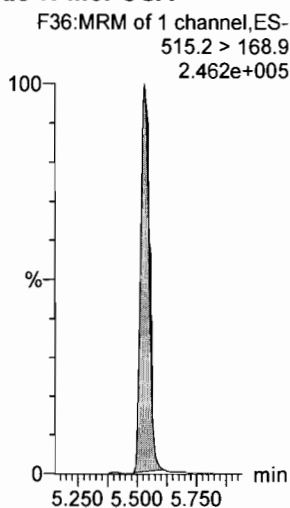
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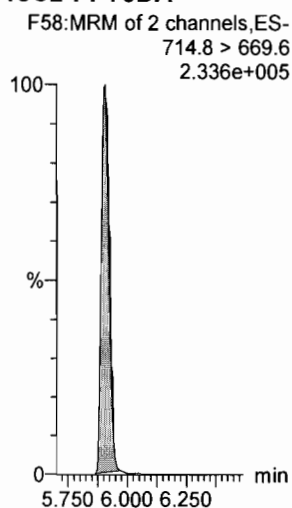
**<sup>13</sup>C2-PFD<sub>o</sub>A**



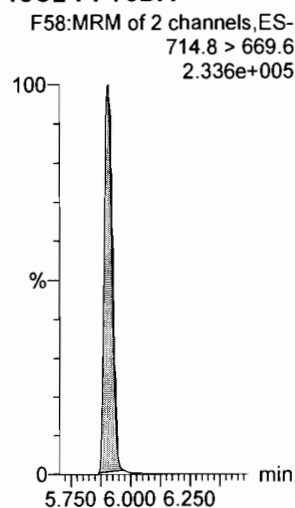
**d<sub>3</sub>-N-MeFOSA**



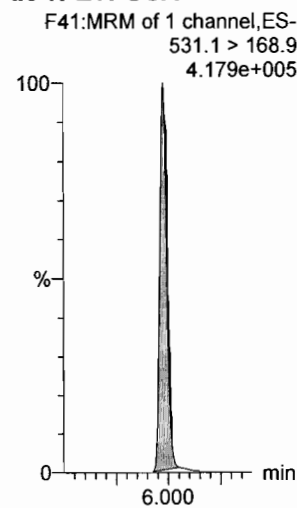
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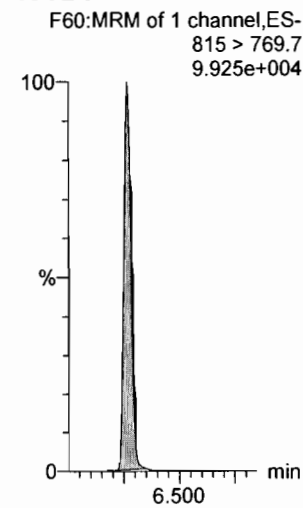
**<sup>13</sup>C2-PFT<sub>e</sub>DA**



**d<sub>5</sub>-N-ETFOSA**



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



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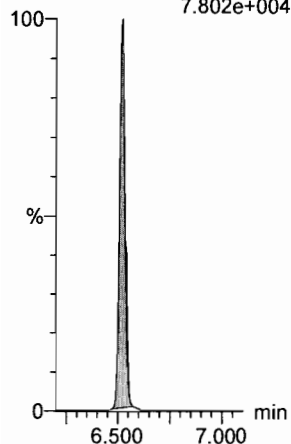
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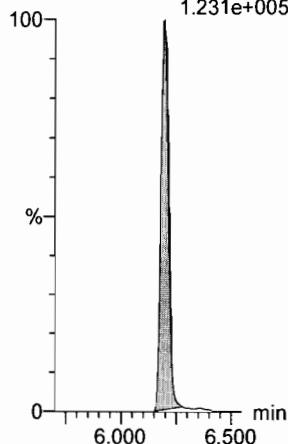
**PFODA**

F61:MRM of 1 channel,ES-  
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7.802e+004



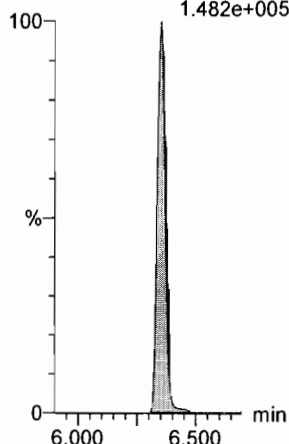
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
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1.231e+005



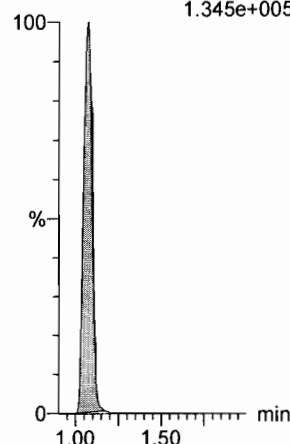
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
1.482e+005



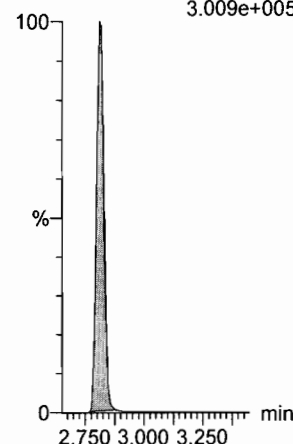
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.345e+005



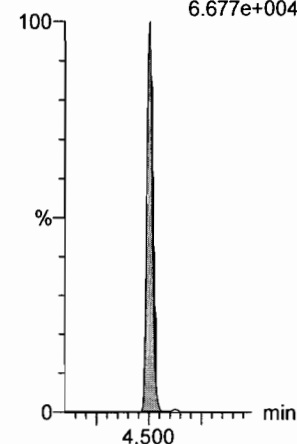
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
3.009e+005



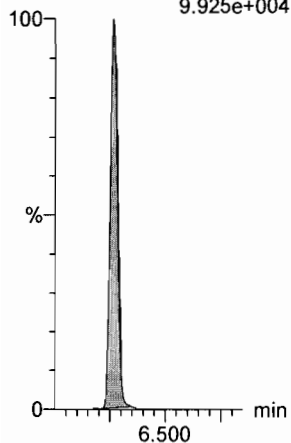
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
6.677e+004



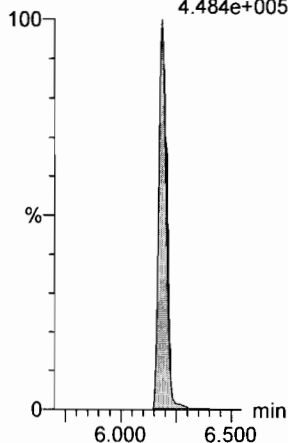
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
9.925e+004



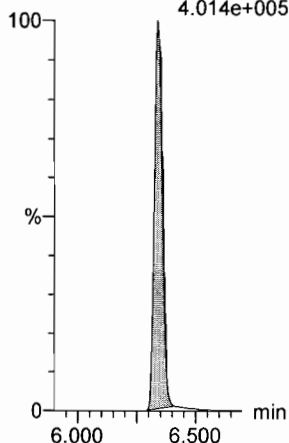
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
4.484e+005



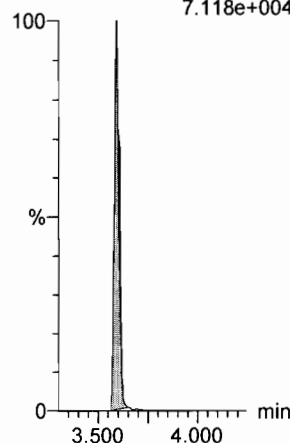
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
4.014e+005



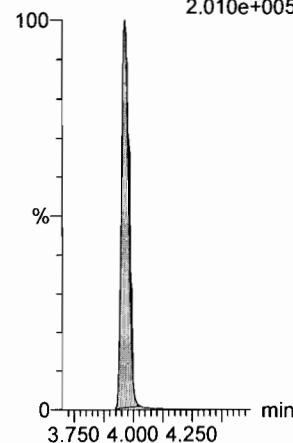
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.118e+004



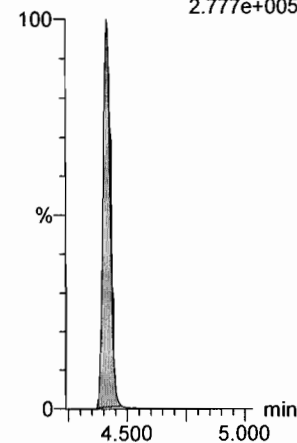
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
2.010e+005



**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.777e+005





Dataset: U:\Q4.PRO\results\171103M1\171103M1-113.qld

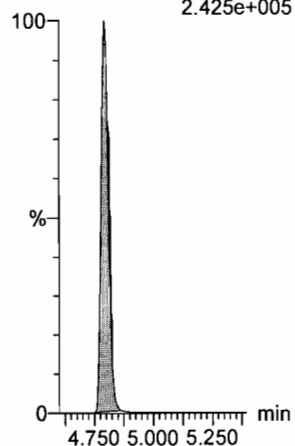
Last Altered: Friday, November 03, 2017 15:31:35 Pacific Daylight Time

Printed: Friday, November 03, 2017 15:31:46 Pacific Daylight Time

Name: 171103M1\_11, Date: 03-Nov-2017, Time: 15:17:27, ID: ST171103M1-2 PFC CS3 17J2810, Description: PFC CS3 17J2810

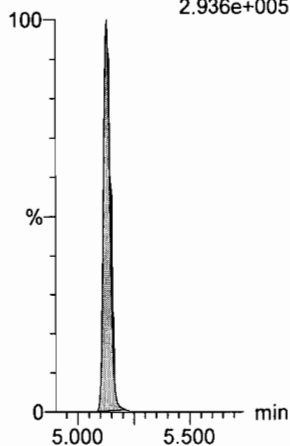
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.425e+005



**13C7-PFUDa**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.936e+005



Dataset: Untitled

Last Altered: Wednesday, November 08, 2017 09:31:13 Pacific Standard Time  
Printed: Wednesday, November 08, 2017 09:33:03 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_RS-11-08-17.mdb 08 Nov 2017 09:01:48  
Calibration: 08 Nov 2017 09:31:13

Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171107M2-1 PFC CS0 17J2707	8.42e3	100.0	NO
2	2 13C5-PFHxA	ST171107M2-1 PFC CS0 17J2707	1.10e4	100.0	NO
3	3 13C3-PFHxS	ST171107M2-1 PFC CS0 17J2707	2.06e3	100.0	NO
4	4 13C8-PFOA	ST171107M2-1 PFC CS0 17J2707	9.95e3	100.0	NO
5	5 13C9-PFNA	ST171107M2-1 PFC CS0 17J2707	1.03e4	100.0	NO
6	6 13C4-PFOS	ST171107M2-1 PFC CS0 17J2707	2.03e3	100.0	NO
7	7 13C6-PFDA	ST171107M2-1 PFC CS0 17J2707	1.19e4	100.0	NO
8	8 13C7-PFUnA	ST171107M2-1 PFC CS0 17J2707	1.25e4	100.0	NO

Name: 171107M2\_3, Date: 07-Nov-2017, Time: 22:06:44, 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-PFUnA	IPA			NO

Name: 171107M2\_4, Date: 07-Nov-2017, Time: 22:17:55, ID: 1701439-01 FRB05\_20171005 0.125, Description: FRB05\_20171005

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701439-01 FRB05_20171005 0.125	6.93e3	82.4	NO
2	2 13C5-PFHxA	1701439-01 FRB05_20171005 0.125	9.74e3	88.5	NO
3	3 13C3-PFHxS	1701439-01 FRB05_20171005 0.125	1.64e3	79.6	NO
4	4 13C8-PFOA	1701439-01 FRB05_20171005 0.125	7.77e3	78.0	NO
5	5 13C9-PFNA	1701439-01 FRB05_20171005 0.125	8.38e3	81.5	NO
6	6 13C4-PFOS	1701439-01 FRB05_20171005 0.125	1.58e3	77.8	NO
7	7 13C6-PFDA	1701439-01 FRB05_20171005 0.125	9.41e3	79.0	NO
8	8 13C7-PFUnA	1701439-01 FRB05_20171005 0.125	9.71e3	77.6	NO

Name: 171107M2\_5, Date: 07-Nov-2017, Time: 22:29:06, 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			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUnA	IPA			NO

Dataset: Untitled

Last Altered: Wednesday, November 08, 2017 09:31:13 Pacific Standard Time

Printed: Wednesday, November 08, 2017 09:33:03 Pacific Standard Time

Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST171107M2-2 PFC CS3 17J2710	9.02e3	107.2	NO
2	2	13C5-PFHxA	ST171107M2-2 PFC CS3 17J2710	1.11e4	100.5	NO
3	3	13C3-PFHxS	ST171107M2-2 PFC CS3 17J2710	2.09e3	101.6	NO
4	4	13C8-PFOA	ST171107M2-2 PFC CS3 17J2710	9.94e3	99.9	NO
5	5	13C9-PFNA	ST171107M2-2 PFC CS3 17J2710	1.06e4	103.1	NO
6	6	13C4-PFOS	ST171107M2-2 PFC CS3 17J2710	2.24e3	110.2	NO
7	7	13C6-PFDA	ST171107M2-2 PFC CS3 17J2710	1.09e4	91.4	NO
8	8	13C7-PFUnA	ST171107M2-2 PFC CS3 17J2710	1.25e4	100.0	NO

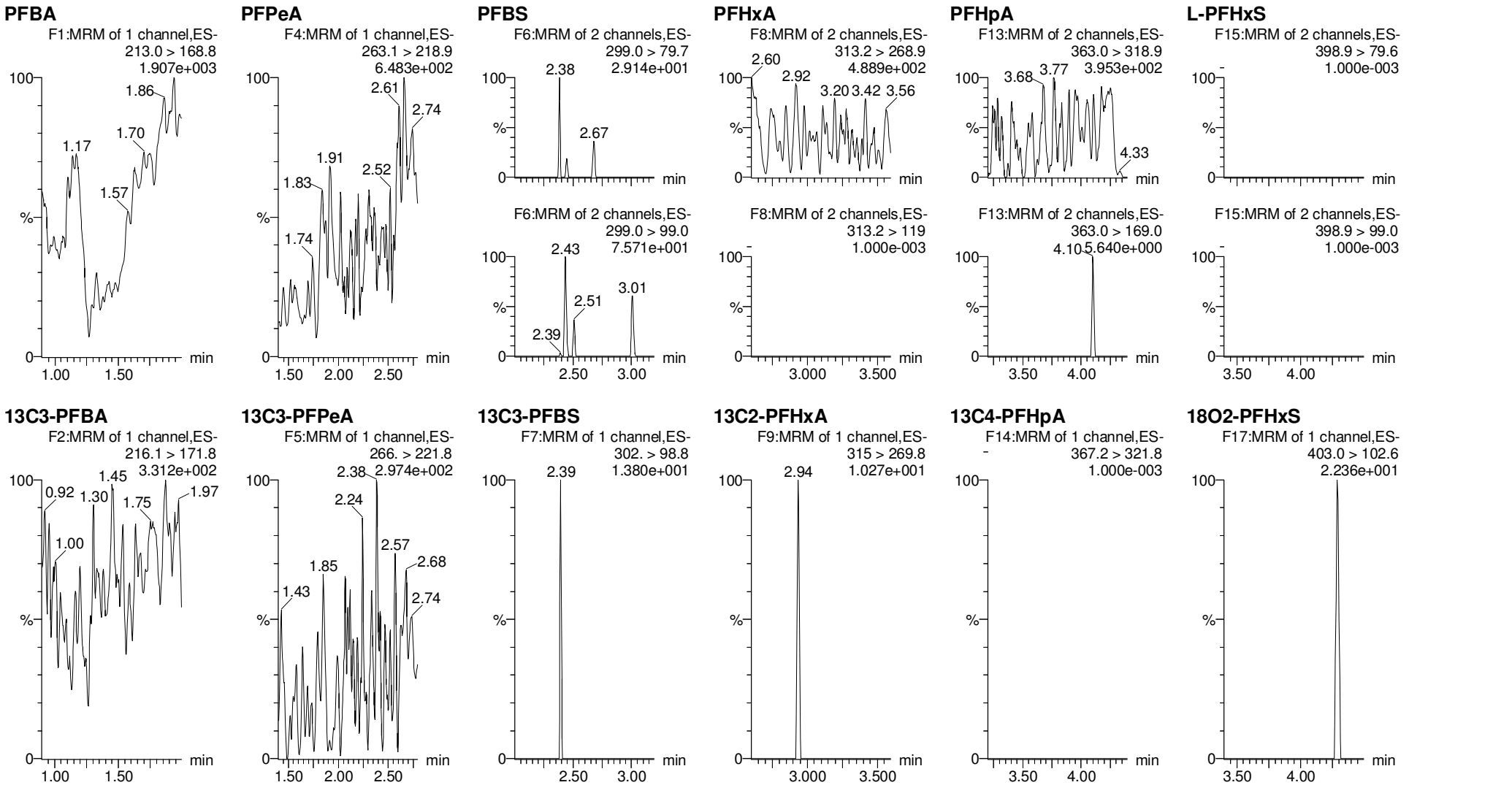
Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Tuesday, November 07, 2017 16:39:55 Pacific Standard Time  
Printed:        Tuesday, November 07, 2017 16:41:03 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_11-06-17-FULL\_NOPFDS.cdb 07 Nov 2017 09:14:26

Name: 171107M1\_7, Date: 07-Nov-2017, Time: 13:41:03, ID: blk tester, Description: 17k0701

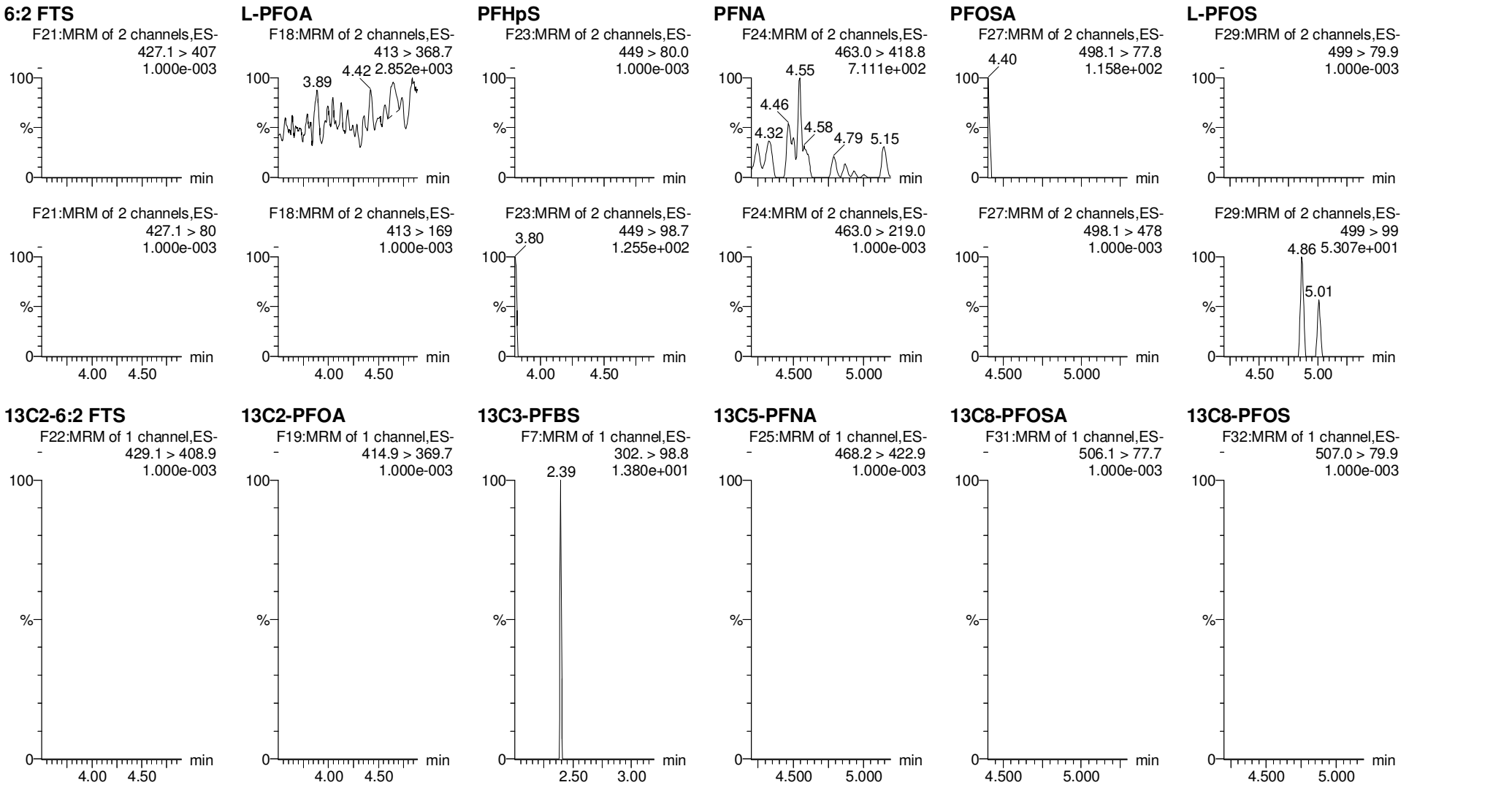


Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Tuesday, November 07, 2017 16:39:55 Pacific Standard Time  
Printed:        Tuesday, November 07, 2017 16:41:03 Pacific Standard Time

Name: 171107M1\_7, Date: 07-Nov-2017, Time: 13:41:03, ID: blk tester, Description: 17k0701

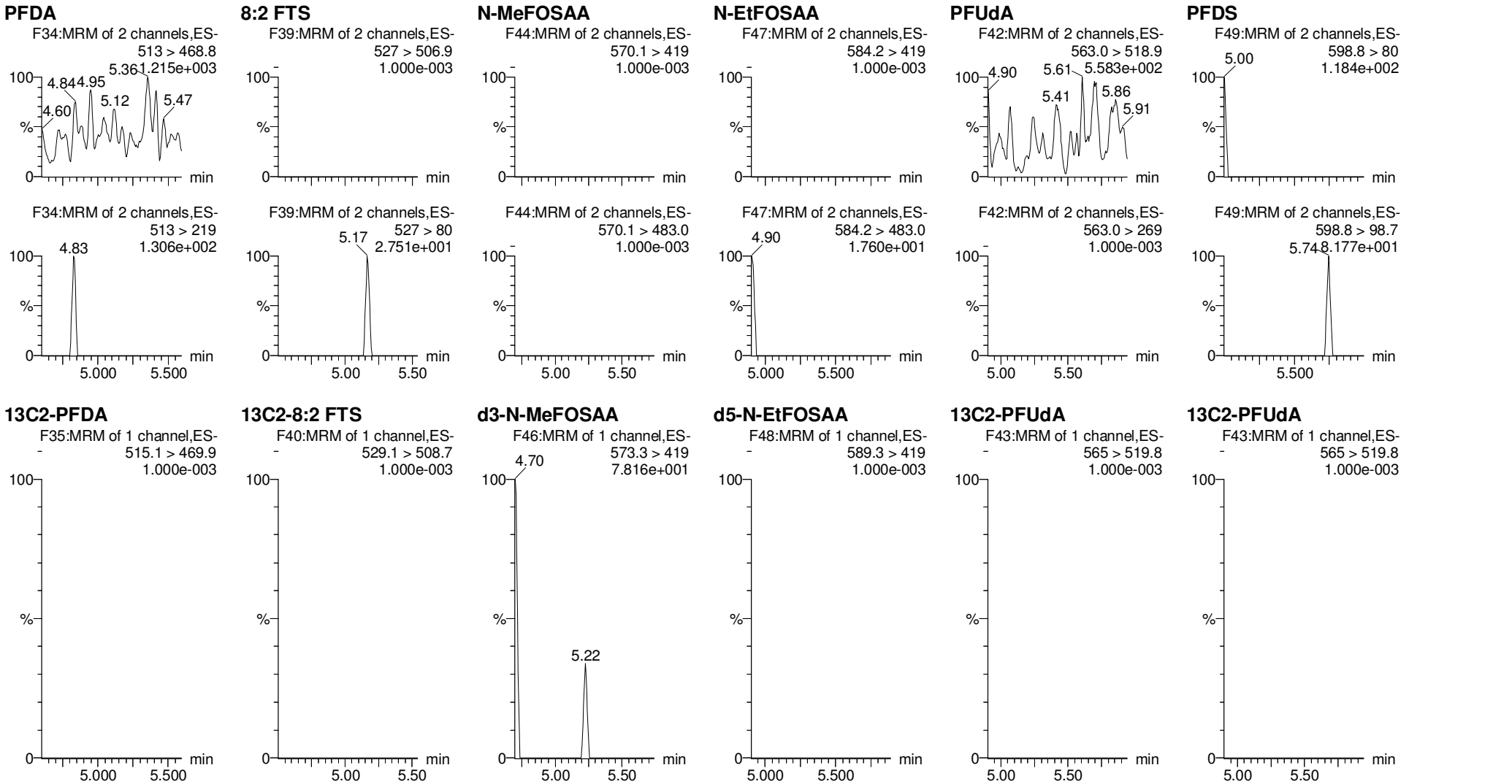


Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Tuesday, November 07, 2017 16:39:55 Pacific Standard Time  
Printed:        Tuesday, November 07, 2017 16:41:03 Pacific Standard Time

Name: 171107M1\_7, Date: 07-Nov-2017, Time: 13:41:03, ID: blk tester, Description: 17k0701

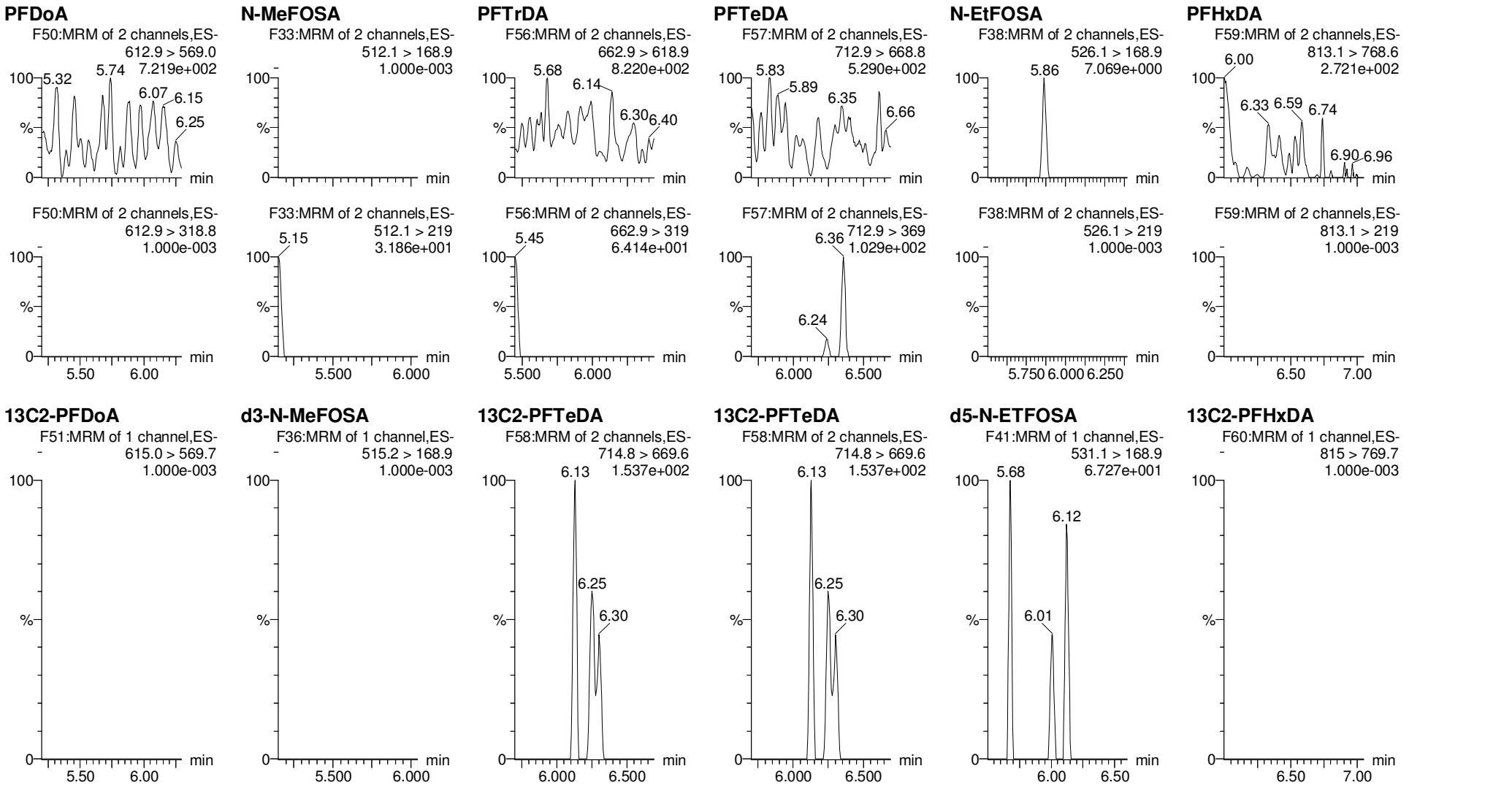


Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Tuesday, November 07, 2017 16:39:55 Pacific Standard Time  
Printed:        Tuesday, November 07, 2017 16:41:03 Pacific Standard Time

Name: 171107M1\_7, Date: 07-Nov-2017, Time: 13:41:03, ID: blk tester, Description: 17k0701

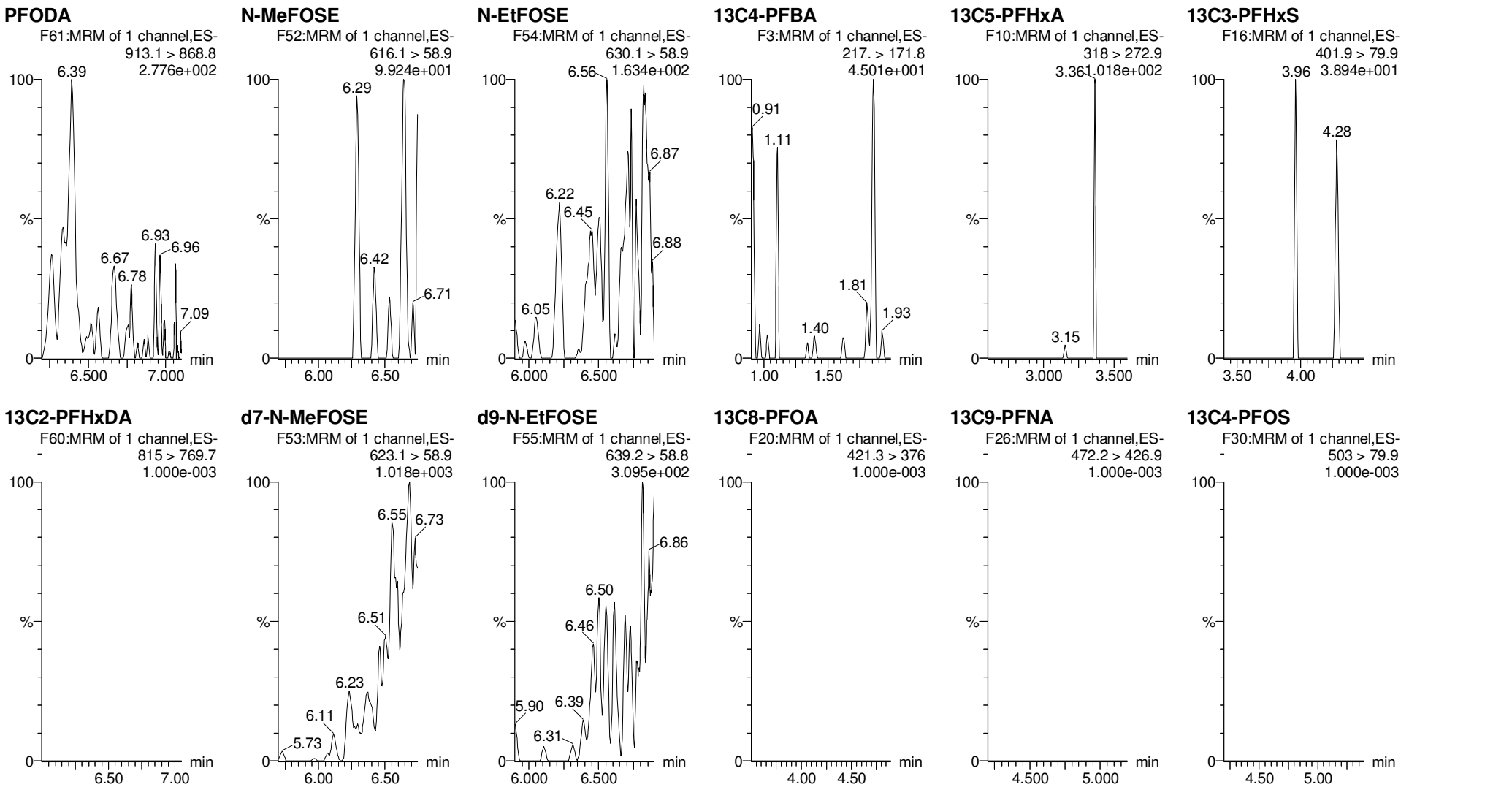


Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Tuesday, November 07, 2017 16:39:55 Pacific Standard Time  
Printed:        Tuesday, November 07, 2017 16:41:03 Pacific Standard Time

Name: 171107M1\_7, Date: 07-Nov-2017, Time: 13:41:03, ID: blk tester, Description: 17k0701





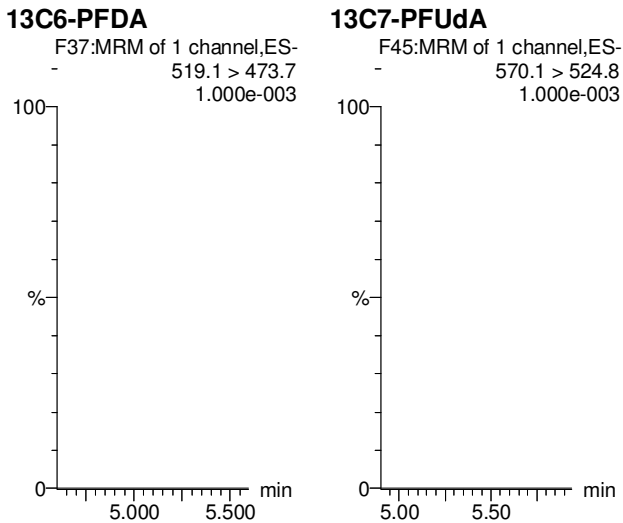
Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Tuesday, November 07, 2017 16:39:55 Pacific Standard Time

Printed:        Tuesday, November 07, 2017 16:41:03 Pacific Standard Time

**Name: 171107M1\_7, Date: 07-Nov-2017, Time: 13:41:03, ID: blk tester, Description: 17k0701**



Dataset: U:\Q4.PRO\results\171107M2\171107M2-2.qld

Last Altered: Wednesday, November 08, 2017 09:24:49 Pacific Standard Time  
Printed: Wednesday, November 08, 2017 09:27:10 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 08:42:13

Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	7.74e2	7.66e3		1.64	1.45	1.26	1.15	114.7
2	2 PFPeA	263.1 > 218.9	7.49e2	8.29e3		2.63	2.41	1.13	1.08	108.4
3	3 PFBS	299.0 > 79.7	2.08e2	1.03e3		2.89	2.69	2.53	1.16	116.3
4	4 PFHxA	313.2 > 268.9	1.15e3	3.06e3		3.39	3.18	1.87	1.19	119.1
5	5 PFHpA	363.0 > 318.9	9.65e2	7.07e3		4.02	3.81	1.71	1.23	122.6
6	6 L-PFHxS	398.9 > 79.6	1.25e2	8.13e2		4.16	3.96	1.93	0.919	91.9
7	8 6:2 FTS	427.1 > 407	1.73e2	2.49e3		4.48	4.27	0.871	0.906	90.6
8	9 L-PFOA	413 > 368.7	1.20e3	1.12e4		4.53	4.33	1.34	1.08	108.0
9	11 PFHpS	449 > 80.0	1.21e2	1.12e4		4.64	4.45	0.135	0.723	72.3
10	12 PFNA	463.0 > 418.8	9.61e2	8.92e3		4.96	4.77	1.35	1.11	110.9
11	13 PFOSA	498.1 > 77.8	3.14e2	2.93e3		5.01	4.82	1.34	1.21	121.2
12	14 L-PFOS	499 > 79.9	1.79e2	2.39e3		5.03	4.85	0.933	0.958	95.8
13	16 PFDA	513 > 468.8	1.19e3	1.00e4		5.33	5.14	1.49	1.14	113.6
14	17 8:2 FTS	527 > 506.9	2.01e2	1.76e3		5.30	5.11	1.42	1.03	103.3
15	18 N-MeFOSAA	570.1 > 419	5.86e2	4.37e3		5.48	5.30	1.68	1.07	106.7
16	19 N-EtFOSAA	584.2 > 419	4.17e2	4.17e3		5.63	5.45	1.25	1.08	107.7
17	20 PFUdA	563.0 > 518.9	9.48e2	1.16e4		5.65	5.47	1.02	0.980	98.0
18	21 PFDS	598.8 > 80	2.06e2	1.16e4		5.70	5.52	0.221	1.15	115.3
19	22 PFDoA	612.9 > 569.0	1.43e3	1.35e4		5.92	5.75	1.32	1.01	100.8
20	23 N-MeFOSA	512.1 > 168.9	5.81e2	1.23e4		5.84	5.73	7.10	6.82	136.4
21	24 PFTrDA	662.9 > 618.9	1.43e3	1.35e4		6.16	5.99	1.32	1.03	103.2
22	25 PFTeDA	712.9 > 668.8	1.32e3	1.47e4		6.36	6.20	1.12	0.874	87.4
23	26 N-EtFOSA	526.1 > 168.9	6.48e2	1.75e4		6.19	6.12	5.54	5.55	111.1
24	27 PFHxDA	813.1 > 768.6	9.09e2	5.45e3		6.65	6.51	0.834	1.27	127.0
25	28 PFODA	913.1 > 868.8	3.85e2	5.45e3		6.86	6.74	0.354	0.924	92.4
26	29 N-MeFOSE	616.1 > 58.9	5.99e2	1.57e4		6.30	6.28	5.70	5.65	112.9
27	30 N-EtFOSE	630.1 > 58.9	6.84e2	1.66e4		6.45	6.43	6.17	5.32	106.4
28	31 13C3-PFBA	216.1 > 171.8	7.66e3	8.42e3	0.949	1.64	1.45	11.4	12.0	95.9
29	32 13C3-PFPeA	266. > 221.8	8.29e3	1.10e4	0.781	2.63	2.41	9.41	12.1	96.4
30	33 13C3-PFBS	302. > 98.8	1.03e3	1.10e4	0.089	2.89	2.69	1.17	13.2	105.4
31	Work Order 171107M2-2 Revision 1	315 > 269.8	3.06e3	1.10e4	0.755	3.39	3.18	3.47	4.60	91.9

(\*) Above limit  
interference

70-136

AM  
11/10/17

Y/A.  
11/08/2017

70-136

Dataset: U:\Q4.PRO\results\171107M2\171107M2-2.qld

Last Altered: Wednesday, November 08, 2017 09:24:49 Pacific Standard Time

Printed: Wednesday, November 08, 2017 09:27:10 Pacific Standard Time

Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

	# Name	Trace	Area	IS Area	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	7.07e3	1.10e4	0.711	4.02	3.81	8.03	11.3	90.4
33	36 18O2-PFHxS	403.0 > 102.6	8.13e2	2.07e3	0.423	4.16	3.96	4.92	11.6	92.9
34	37 13C2-6:2 FTS	429.1 > 408.9	2.49e3	9.95e3	0.286	4.48	4.28	3.13	10.9	87.5
35	38 13C2-PFOA	414.9 > 369.7	1.12e4	9.95e3	1.310	4.53	4.33	14.1	10.7	86.0
36	39 13C5-PFNA	468.2 > 422.9	8.92e3	1.03e4	0.979	4.96	4.76	10.8	11.1	88.6
37	40 13C8-PFOSA	506.1 > 77.7	2.93e3	1.25e4	0.207	5.01	4.82	2.93	14.2	113.5
38	41 13C8-PFOS	507.0 > 79.9	2.39e3	2.03e3	1.072	5.03	4.85	14.7	13.7	109.9
39	42 13C2-PFDA	515.1 > 469.9	1.00e4	1.19e4	1.014	5.33	5.14	10.5	10.4	82.8
40	43 13C2-8:2 FTS	529.1 > 508.7	1.76e3	1.19e4	0.216	5.30	5.11	1.85	8.57	68.5
41	44 d3-N-MeFOSAA	573.3 > 419	4.37e3	1.25e4	0.368	5.48	5.29	4.36	11.9	94.9
42	45 d5-N-EtFOSAA	589.3 > 419	4.17e3	1.25e4	0.389	5.63	5.45	4.17	10.7	85.8
43	46 13C2-PFUdA	565 > 519.8	1.16e4	1.25e4	0.983	5.65	5.47	11.6	11.8	94.7
44	47 13C2-PFDoA	615.0 > 569.7	1.35e4	1.25e4	0.997	5.92	5.75	13.5	13.6	108.4
45	48 d3-N-MeFOSA	515.2 > 168.9	1.23e4	1.25e4	0.096	5.84	5.75	12.3	128	85.5
46	49 13C2-PFTeDA	714.8 > 669.6	1.47e4	1.25e4	1.039	6.36	6.21	14.7	14.1	113.1
47	50 d5-N-ETFOSA	531.1 > 168.9	1.75e4	1.25e4	0.144	6.19	6.13	17.5	122	81.1
48	51 13C2-PFHxDA	815 > 769.7	5.45e3	1.25e4	1.032	6.65	6.52	5.44	5.27	105.5
49	52 d7-N-MeFOSE	623.1 > 58.9	1.57e4	1.25e4	0.133	6.30	6.27	15.7	118	78.9
50	53 d9-N-EtFOSE	639.2 > 58.8	1.66e4	1.25e4	0.128	6.45	6.42	16.6	130	86.8
51	54 13C4-PFBA	217. > 171.8	8.42e3	8.42e3	1.000	1.64	1.44	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	1.10e4	1.10e4	1.000	3.39	3.18	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	2.07e3	2.07e3	1.000	4.16	3.96	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	9.95e3	9.95e3	1.000	4.53	4.33	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.03e4	1.03e4	1.000	4.96	4.76	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	2.03e3	2.03e3	1.000	5.03	4.85	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.19e4	1.19e4	1.000	5.33	5.14	12.5	12.5	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.25e4	1.25e4	1.000	5.65	5.47	12.5	12.5	100.0

20-180  
↓

Dataset:        Untitled

Last Altered:    Wednesday, November 08, 2017 09:31:13 Pacific Standard Time

Printed:         Wednesday, November 08, 2017 09:32:12 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_RS-11-08-17.mdb 08 Nov 2017 09:01:48  
Calibration: 08 Nov 2017 09:31:13

Compound name: 13C4-PFBA

	Name	ID	Acq.Date	Acq.Time
1	171107M2_2	ST171107M2-1 PFC CS0 17J2707	07-Nov-17	21:55:33
2	171107M2_3	IPA	07-Nov-17	22:06:44
3	171107M2_4	1701439-01 FRB05_20171005 0.125	07-Nov-17	22:17:55
4	171107M2_5	IPA	07-Nov-17	22:29:06
5	171107M2_6	ST171107M2-2 PFC CS3 17J2710	07-Nov-17	22:40:16

# LC Calibration Standards Review Checklist

024

Calibration ID:	L M H	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
51171101M2-1	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (A)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
↓ 2	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (B)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Calibration ID:	L M H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Full Mass Cal. Date: 06/21/17

Run Log Present: ☒

# of Samples per Sequence Checked: ☒

Reviewed By: JA 11/08/2017  
Initials/Date

Comments:  
Full-ULD  
(A) MeFOSA > 1307.  
(B) G:2FCS, PFDA, MeFOSA > 1307.

Dataset: U:\Q4.PRO\results\171107M2\171107M2-2.qld

Last Altered: Wednesday, November 08, 2017 09:24:49 Pacific Standard Time

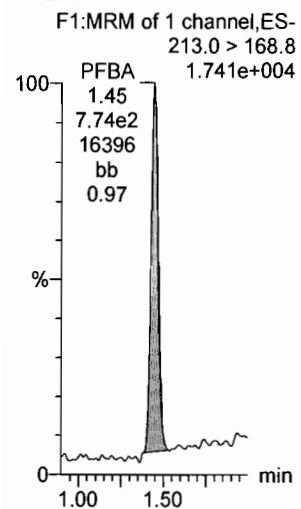
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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36

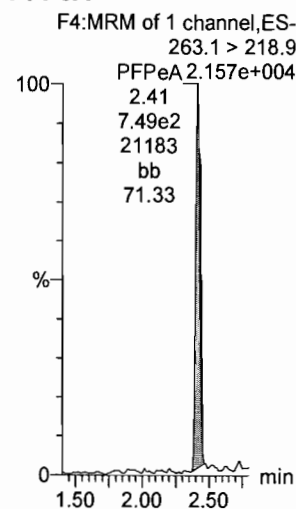
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Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

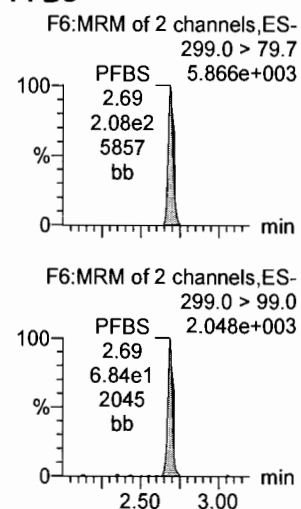
**PFBA**



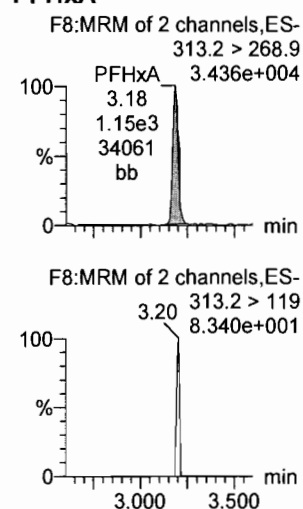
**PFPeA**



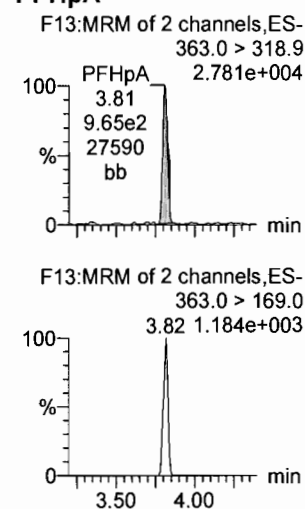
**PFBS**



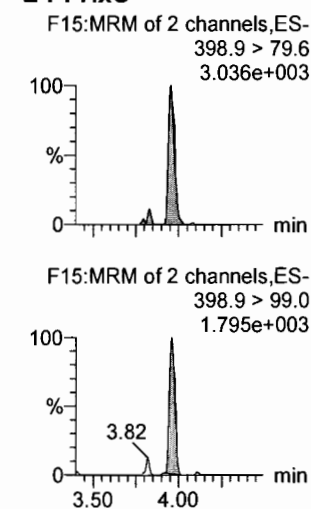
**PFHxA**



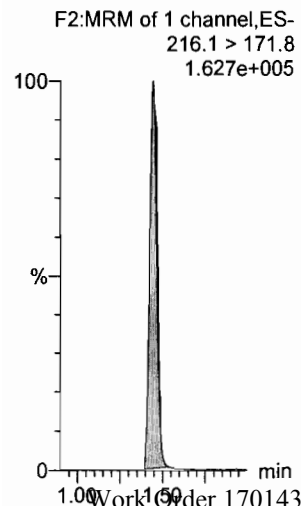
**PFHpA**



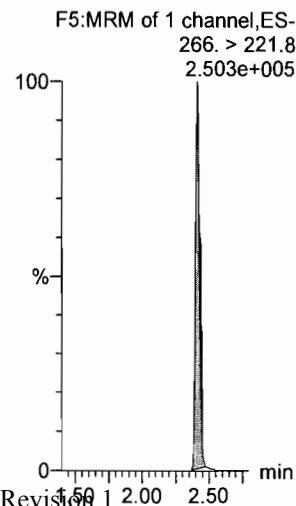
**L-PFHxS**



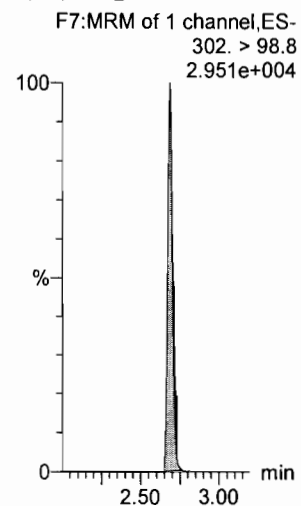
**13C3-PFBA**



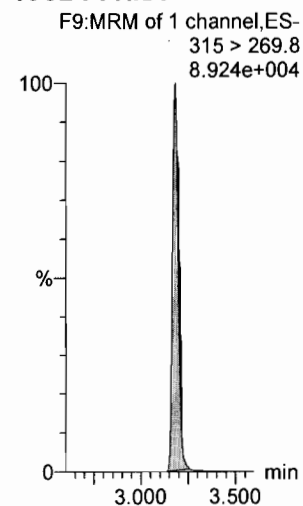
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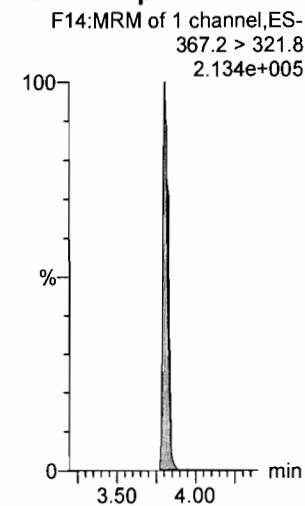
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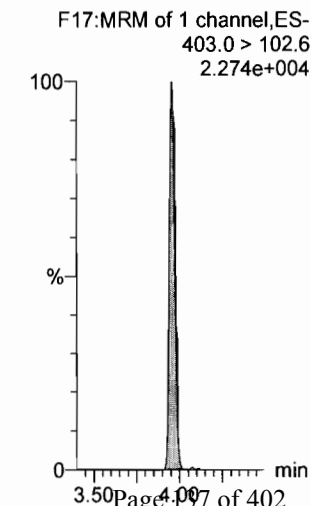
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

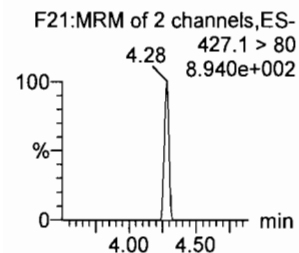
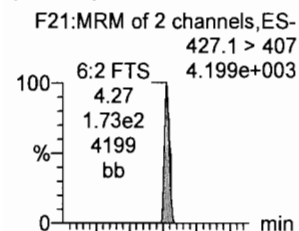


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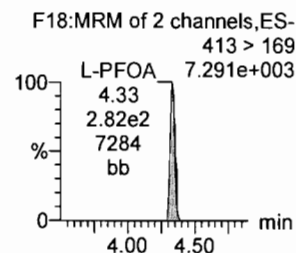
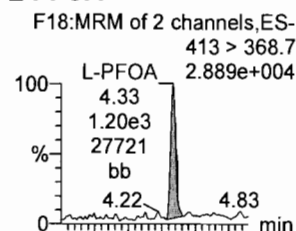
Last Altered: Wednesday, November 08, 2017 09:24:49 Pacific Standard Time  
Printed: Wednesday, November 08, 2017 09:27:10 Pacific Standard Time

Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

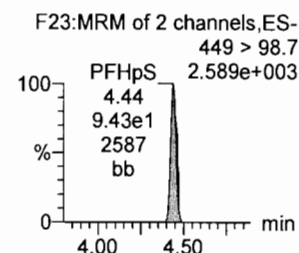
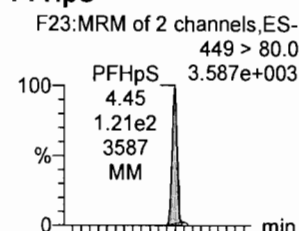
### 6:2 FTS



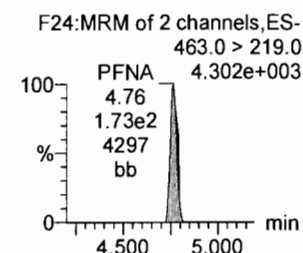
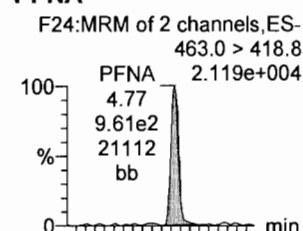
### L-PFOA



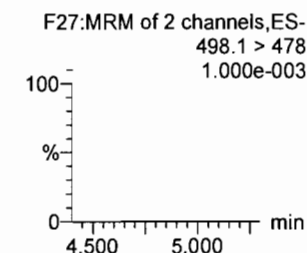
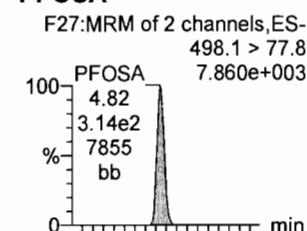
### PFHpS



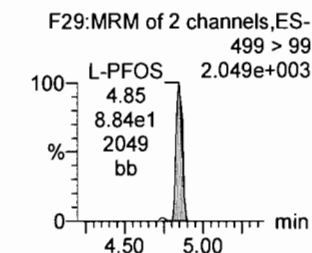
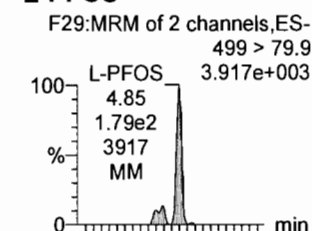
### PFNA



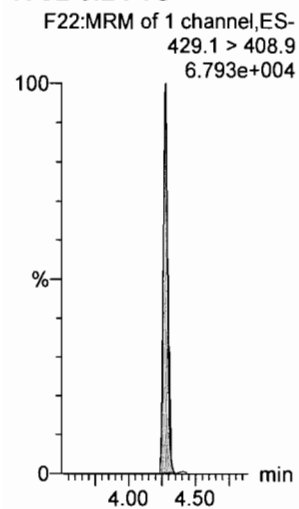
### PFOSA



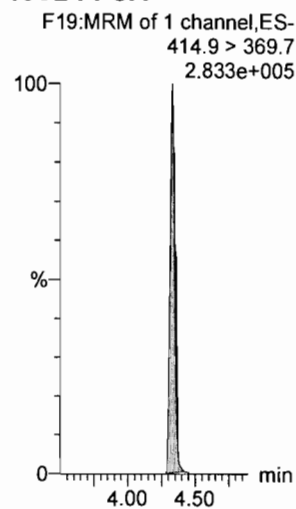
### L-PFOS



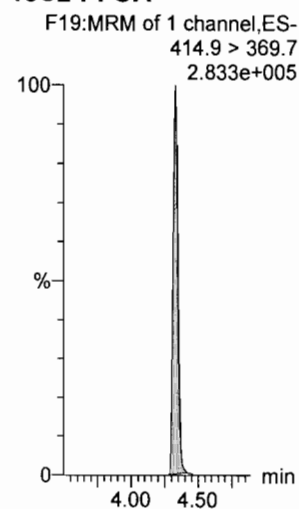
### 13C2-6:2 FTS



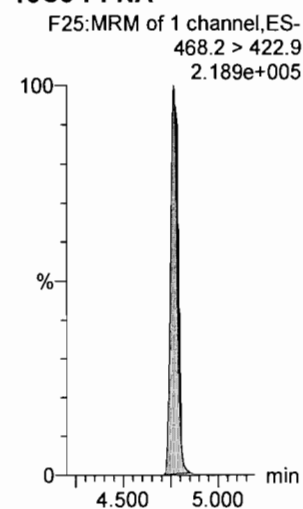
### 13C2-PFOA



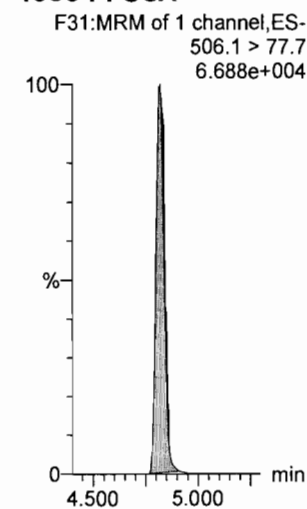
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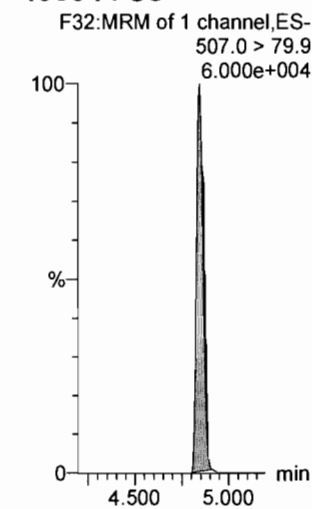
### 13C5-PFNA



### 13C8-PFOSA



### 13C8-PFOS

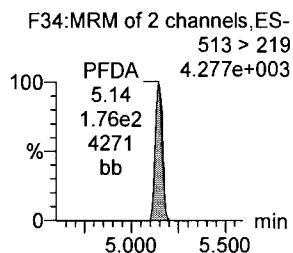
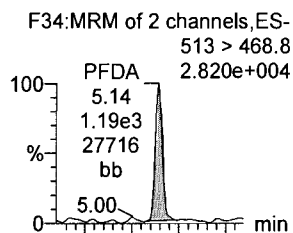


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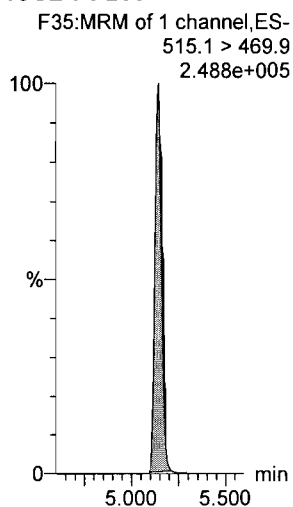
Last Altered: Wednesday, November 08, 2017 09:24:49 Pacific Standard Time  
Printed: Wednesday, November 08, 2017 09:27:10 Pacific Standard Time

Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

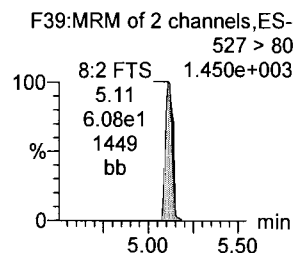
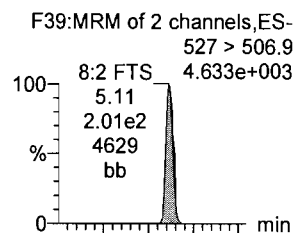
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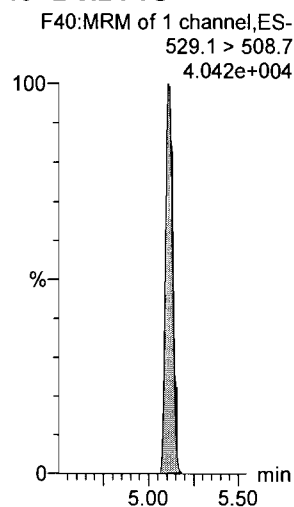
**13C2-PFDA**



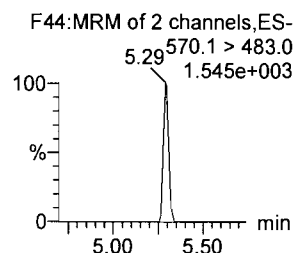
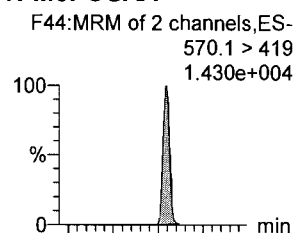
**8:2 FTS**



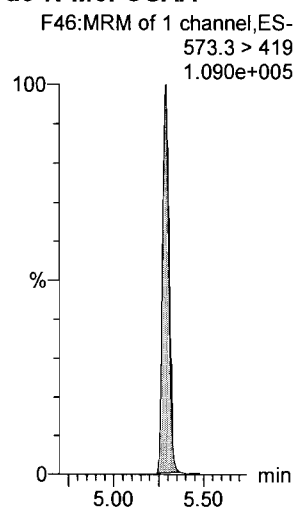
**13C2-8:2 FTS**



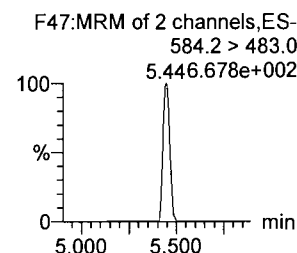
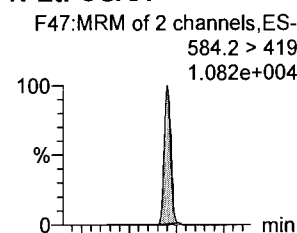
**N-MeFOSAA**



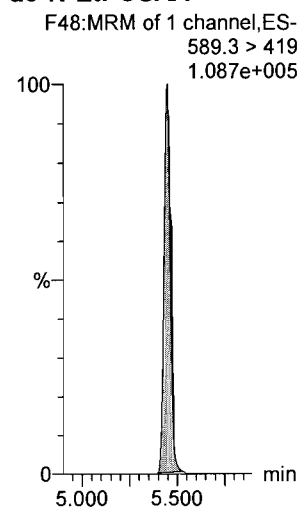
**d3-N-MeFOSAA**



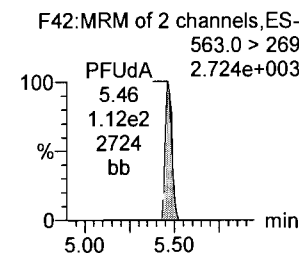
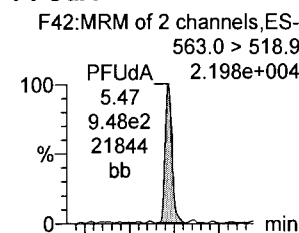
**N-EtFOSAA**



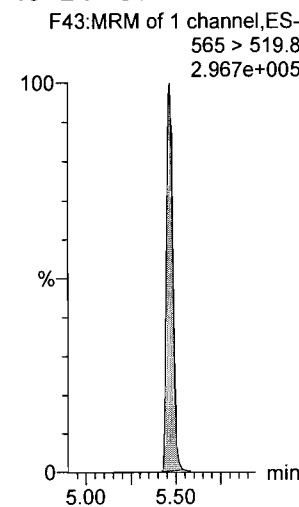
**d5-N-EtFOSAA**



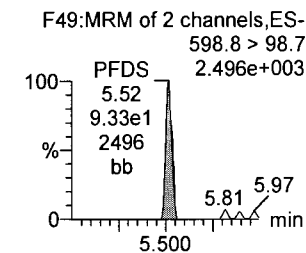
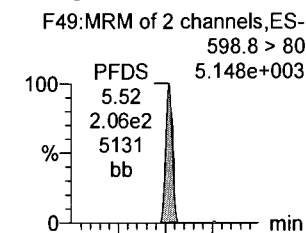
**PFUdA**



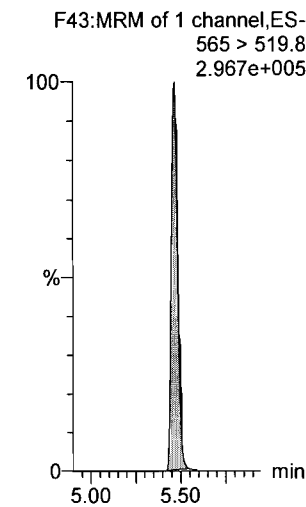
**13C2-PFUdA**



**PFDS**



**13C2-PFUdA**





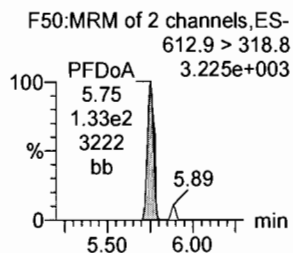
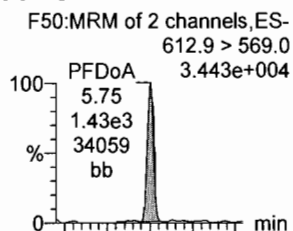
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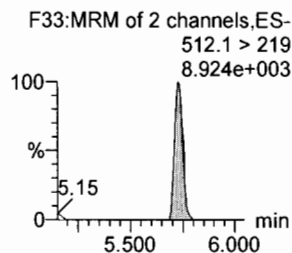
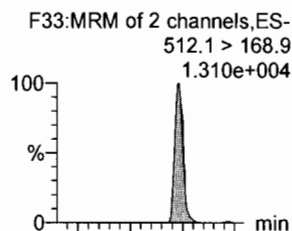
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Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

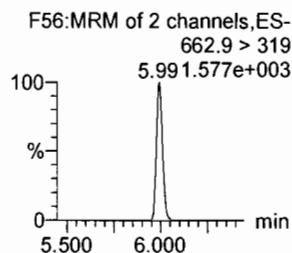
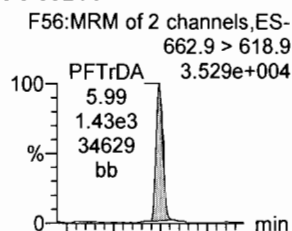
**PFDaA**



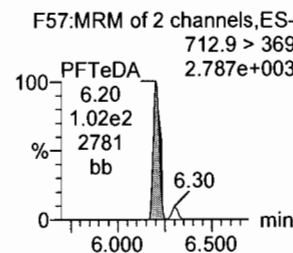
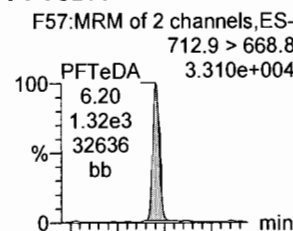
**N-MeFOSA**



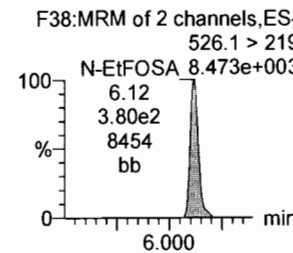
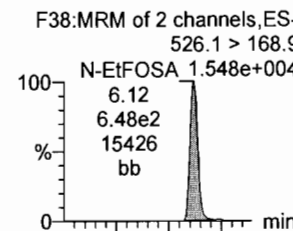
**PFTrDA**



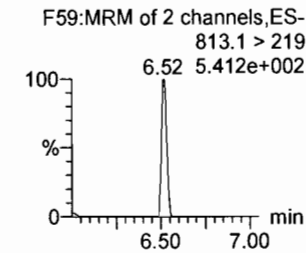
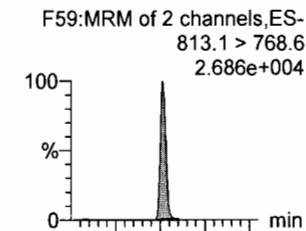
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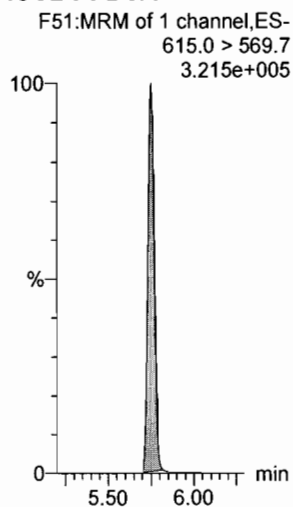
**N-EtFOSA**



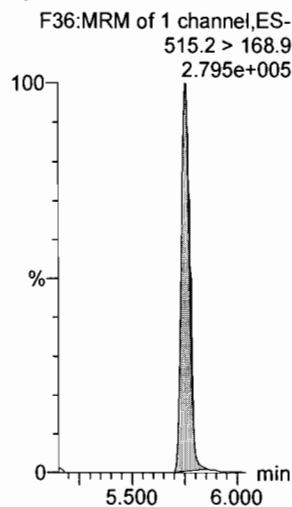
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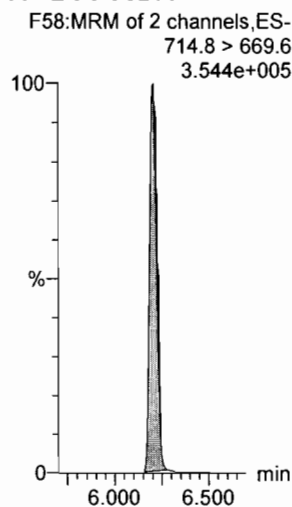
**13C2-PFDaA**



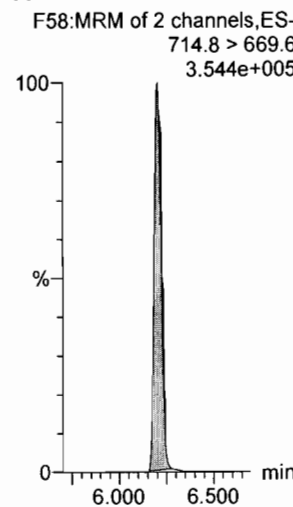
**d3-N-MeFOSA**



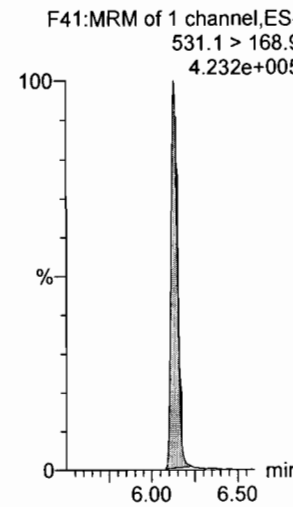
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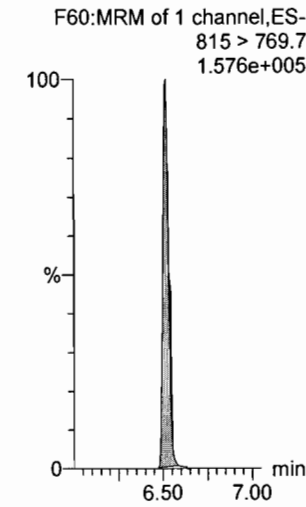
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**d5-N-ETFOSA**



**13C2-PFHxDA**



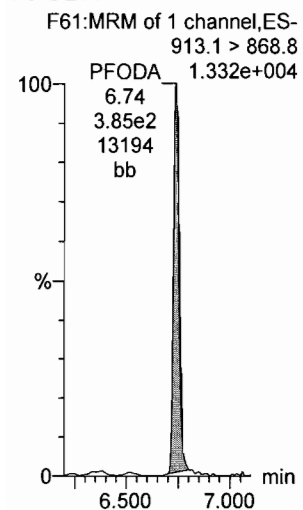
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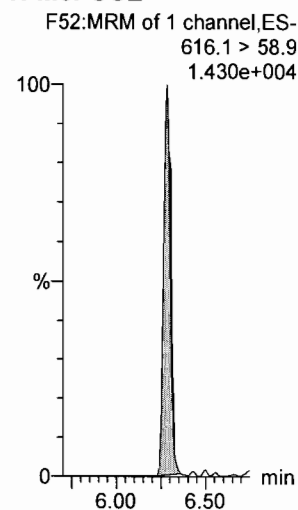
Printed: Wednesday, November 08, 2017 09:27:10 Pacific Standard Time

Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

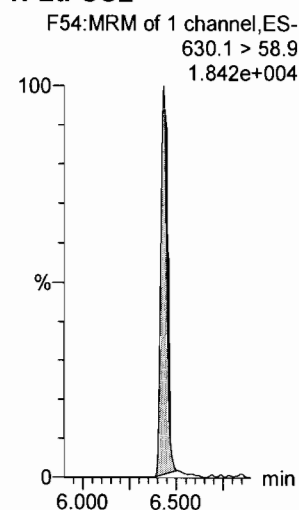
**PFODA**



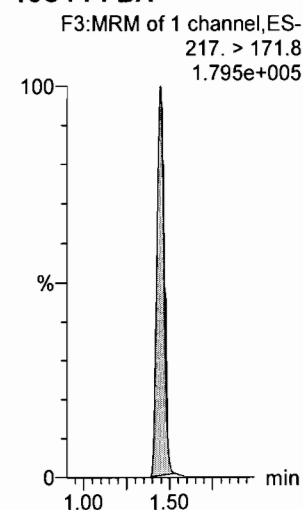
**N-MeFOSE**



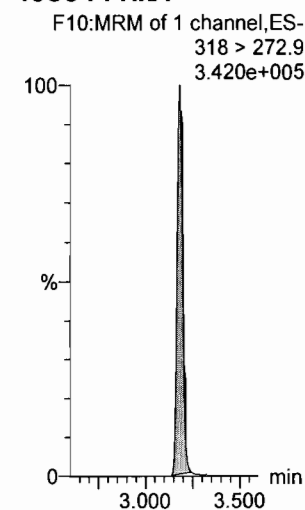
**N-EtFOSE**



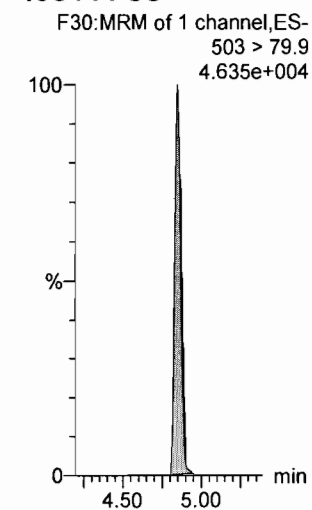
**13C4-PFBA**



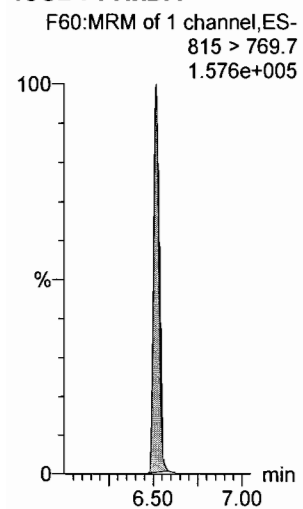
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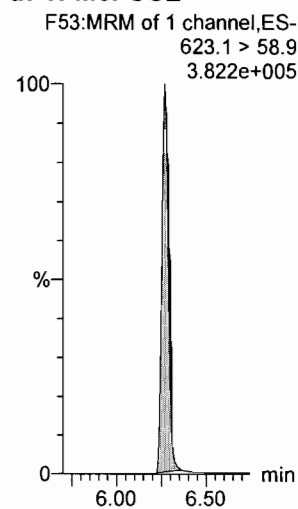
**13C4-PFOS**



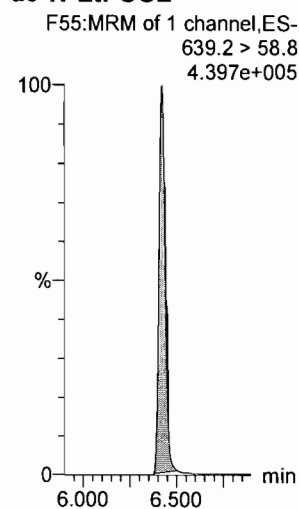
**13C2-PFHxDA**



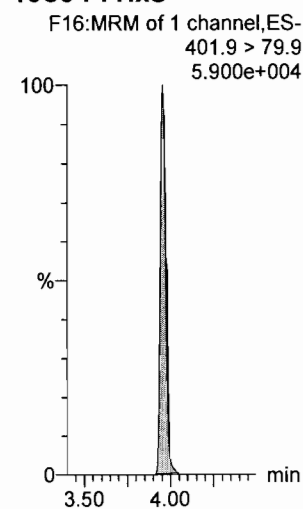
**d7-N-MeFOSE**



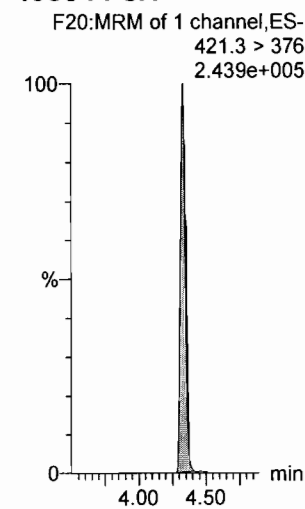
**d9-N-EtFOSE**



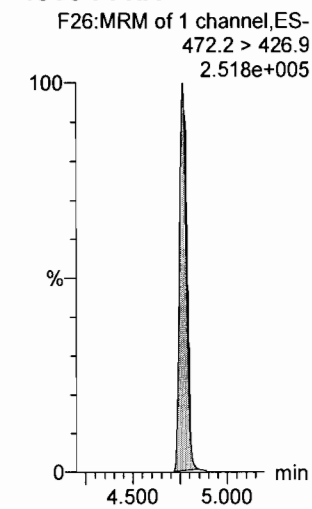
**13C3-PFHxS**



**13C8-PFOA**



**13C9-PFNA**



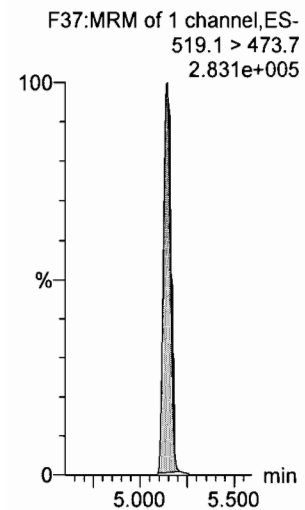
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Last Altered: Wednesday, November 08, 2017 09:24:49 Pacific Standard Time

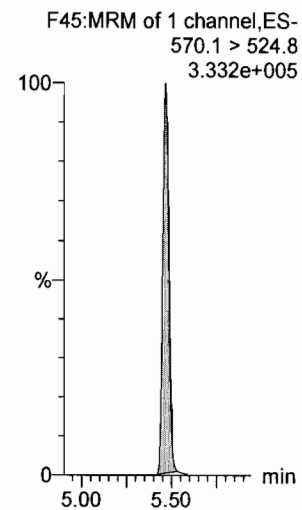
Printed: Wednesday, November 08, 2017 09:27:10 Pacific Standard Time

Name: 171107M2\_2, Date: 07-Nov-2017, Time: 21:55:33, ID: ST171107M2-1 PFC CS0 17J2707, Description: PFC CS0 17J2707

13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\171107M2\171107M2-6.qld

Last Altered: Wednesday, November 08, 2017 09:28:29 Pacific Standard Time  
Printed: Wednesday, November 08, 2017 09:29:08 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_110617\_AC.mdb 07 Nov 2017 07:51:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 08:42:13

(A) Above Limit Criteria.

Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	7.71e3	7.90e3		1.64	1.44	12.2	11.4	113.7
2	2 PFPeA	263.1 > 218.9	7.77e3	8.63e3		2.63	2.41	11.2	11.7	117.3
3	3 PFBS	299.0 > 79.7	1.82e3	9.50e2		2.89	2.68	24.0	11.8	118.0
4	4 PFHxA	313.2 > 268.9	1.06e4	2.95e3		3.39	3.18	18.0	12.7	126.8
5	5 PFHpA	363.0 > 318.9	8.05e3	7.52e3		4.02	3.80	13.4	10.3	102.8
6	6 L-PFHxS	398.9 > 79.6	1.58e3	7.83e2		4.16	3.95	25.2	12.4	124.3
7	8 6:2 FTS	427.1 > 407	2.34e3	2.20e3		4.48	4.27	13.3	14.2	142.4
8	9 L-PFOA	413 > 368.7	9.45e3	1.10e4		4.53	4.32	10.7	11.0	110.2
9	11 PFHpS	449 > 80.0	1.95e3	1.10e4		4.64	4.43	2.20	12.0	120.0
10	12 PFNA	463.0 > 418.8	1.16e4	1.00e4		4.96	4.76	14.4	11.5	114.9
11	13 PFOSA	498.1 > 77.8	2.88e3	2.99e3		5.01	4.81	12.1	11.2	112.2
12	14 L-PFOS	499 > 79.9	2.14e3	2.27e3		5.03	4.84	11.8	11.6	116.4
13	16 PFDA	513 > 468.8	1.26e4	8.77e3		5.33	5.14	17.9	14.0	139.6
14	17 8:2 FTS	527 > 506.9	2.32e3	1.98e3		5.30	5.11	14.6	10.3	102.8
15	18 N-MeFOSAA	570.1 > 419	5.94e3	3.85e3		5.48	5.29	19.3	13.3	133.5
16	19 N-EtFOSAA	584.2 > 419	3.88e3	4.25e3		5.63	5.44	11.4	9.73	97.3
17	20 PFUdA	563.0 > 518.9	9.72e3	1.36e4		5.65	5.46	8.95	9.23	92.3
18	21 PFDS	598.8 > 80	2.36e3	1.36e4		5.70	5.51	2.18	9.81	98.1
19	22 PFDoA	612.9 > 569.0	1.29e4	1.45e4		5.92	5.75	11.2	9.05	90.5
20	23 N-MeFOSA	512.1 > 168.9	5.16e3	1.26e4		5.84	5.73	61.4	61.5	123.1
21	24 PFTrDA	662.9 > 618.9	1.72e4	1.45e4		6.16	5.98	14.8	11.6	116.0
22	25 PFTeDA	712.9 > 668.8	1.58e4	1.35e4		6.36	6.20	14.6	11.4	113.7
23	26 N-EtFOSA	526.1 > 168.9	6.10e3	1.78e4		6.19	6.12	51.6	56.3	112.5
24	27 PFHxDA	813.1 > 768.6	8.31e3	5.88e3		6.65	6.51	7.07	12.2	122.2
25	28 PFODA	913.1 > 868.8	5.59e3	5.88e3		6.86	6.74	4.76	11.4	114.3
26	29 N-MeFOSE	616.1 > 58.9	6.70e3	1.78e4		6.30	6.28	56.5	61.4	122.8
27	30 N-EtFOSE	630.1 > 58.9	6.74e3	1.60e4		6.45	6.43	63.3	62.2	124.3
28	31 13C3-PFBA	216.1 > 171.8	7.90e3	9.02e3	0.949	1.64	1.44	10.9	11.5	92.3
29	32 13C3-PFPeA	266. > 221.8	8.63e3	1.11e4	0.781	2.63	2.41	9.75	12.5	99.9
30	33 13C3-PFBS	302. > 98.8	9.50e2	1.11e4	0.089	2.89	2.68	1.07	12.1	97.0
31	315 > 269.8	2.95e3	1.11e4	0.755	3.39	3.18	3.33	4.41	88.2	

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Dataset: U:\Q4.PRO\results\171107M2\171107M2-6.qld

Last Altered: Wednesday, November 08, 2017 09:28:29 Pacific Standard Time  
Printed: Wednesday, November 08, 2017 09:29:08 Pacific Standard Time

Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

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32	35 13C4-PFHpA	367.2 > 321.8	7.52e3	1.11e4	0.711	4.02	3.80	8.49	11.9	95.6
33	36 18O2-PFHxS	403.0 > 102.6	7.83e2	2.09e3	0.423	4.16	3.95	4.69	11.1	88.5
34	37 13C2-6:2 FTS	429.1 > 408.9	2.20e3	9.94e3	0.286	4.48	4.27	2.77	9.69	77.5
35	38 13C2-PFOA	414.9 > 369.7	1.10e4	9.94e3	1.310	4.53	4.32	13.9	10.6	84.7
36	39 13C5-PFNA	468.2 > 422.9	1.00e4	1.06e4	0.979	4.96	4.76	11.8	12.1	96.6
37	40 13C8-PFOSA	506.1 > 77.7	2.99e3	1.25e4	0.207	5.01	4.81	2.98	14.4	115.5
38	41 13C8-PFOS	507.0 > 79.9	2.27e3	2.24e3	1.072	5.03	4.84	12.7	11.8	94.6
39	42 13C2-PFDA	515.1 > 469.9	8.77e3	1.09e4	1.014	5.33	5.14	10.1	9.93	79.4
40	43 13C2-8:2 FTS	529.1 > 508.7	1.98e3	1.09e4	0.216	5.30	5.11	2.28	10.5	84.3
41	44 d3-N-MeFOSAA	573.3 > 419	3.85e3	1.25e4	0.368	5.48	5.29	3.84	10.4	83.6
42	45 d5-N-EtFOSAA	589.3 > 419	4.25e3	1.25e4	0.389	5.63	5.44	4.24	10.9	87.4
43	46 13C2-PFUDa	565 > 519.8	1.36e4	1.25e4	0.983	5.65	5.46	13.6	13.8	110.4
44	47 13C2-PFDoA	615.0 > 569.7	1.45e4	1.25e4	0.997	5.92	5.74	14.5	14.5	116.1
45	48 d3-N-MeFOSA	515.2 > 168.9	1.26e4	1.25e4	0.096	5.84	5.74	12.6	132	87.8
46	49 13C2-PFTeDA	714.8 > 669.6	1.35e4	1.25e4	1.039	6.36	6.20	13.5	13.0	104.2
47	50 d5-N-ETFOSA	531.1 > 168.9	1.78e4	1.25e4	0.144	6.19	6.13	17.7	123	82.1
48	51 13C2-PFHxDA	815 > 769.7	5.88e3	1.25e4	1.032	6.65	6.51	5.87	5.69	113.8
49	52 d7-N-MeFOSE	623.1 > 58.9	1.78e4	1.25e4	0.133	6.30	6.27	17.8	134	89.1
50	53 d9-N-EtFOSE	639.2 > 58.8	1.60e4	1.25e4	0.128	6.45	6.42	16.0	125	83.3
51	54 13C4-PFBA	217. > 171.8	9.02e3	9.02e3	1.000	1.64	1.43	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	1.11e4	1.11e4	1.000	3.39	3.18	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	2.09e3	2.09e3	1.000	4.16	3.95	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	9.94e3	9.94e3	1.000	4.53	4.32	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.06e4	1.06e4	1.000	4.96	4.76	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	2.24e3	2.24e3	1.000	5.03	4.84	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.09e4	1.09e4	1.000	5.33	5.14	12.5	12.5	100.0
58	61 13C7-PFUDa	570.1 > 524.8	1.25e4	1.25e4	1.000	5.65	5.46	12.5	12.5	100.0

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Dataset:        Untitled

Last Altered:   Wednesday, November 08, 2017 09:31:13 Pacific Standard Time

Printed:        Wednesday, November 08, 2017 09:32:12 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_RS-11-08-17.mdb 08 Nov 2017 09:01:48

Calibration: 08 Nov 2017 09:31:13

Compound name: 13C4-PFBA

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2	171107M2_3	IPA	07-Nov-17	22:06:44
3	171107M2_4	1701439-01 FRB05_20171005 0.125	07-Nov-17	22:17:55
4	171107M2_5	IPA	07-Nov-17	22:29:06
5	171107M2_6	ST171107M2-2 PFC CS3 17J2710	07-Nov-17	22:40:16

Dataset: U:\Q4.PRO\results\171107M2\171107M2-6.qld

Last Altered: Wednesday, November 08, 2017 09:28:29 Pacific Standard Time

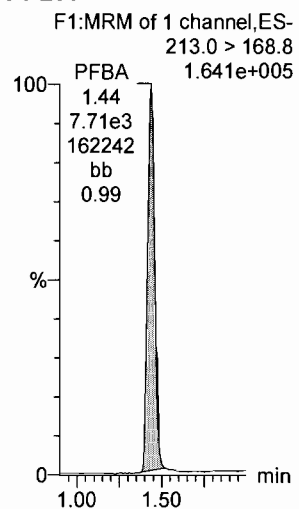
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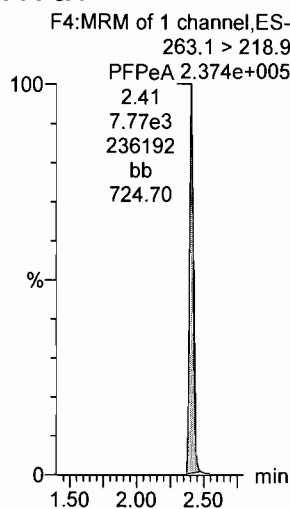
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Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

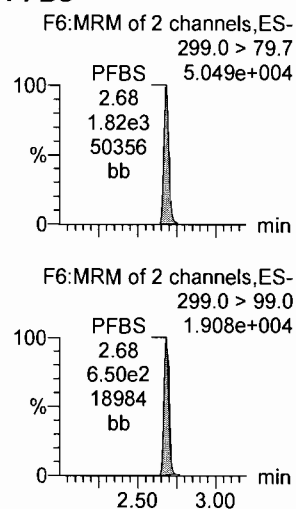
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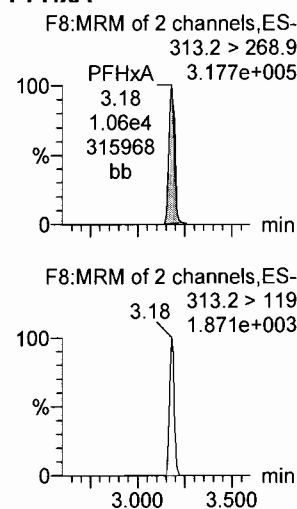
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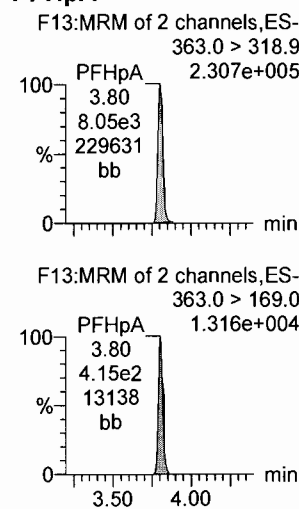
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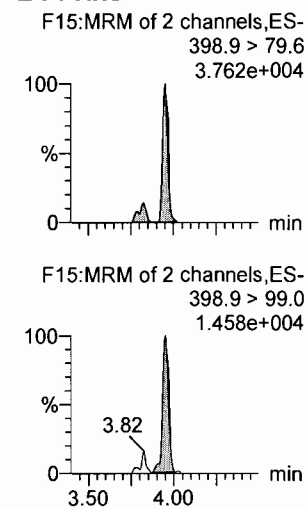
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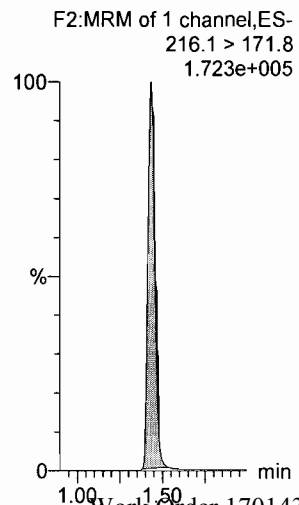
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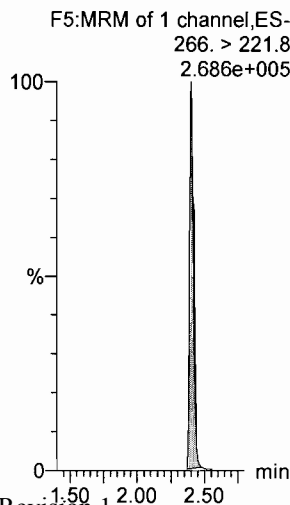
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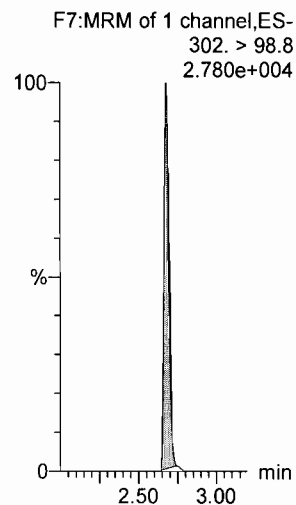
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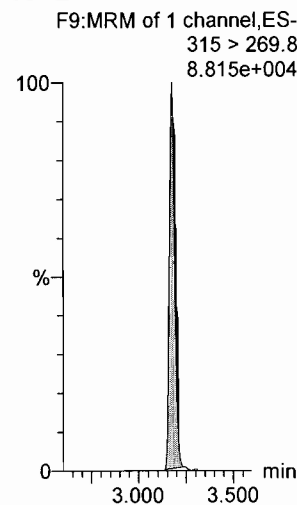
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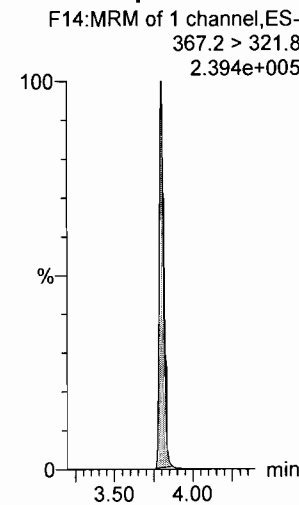
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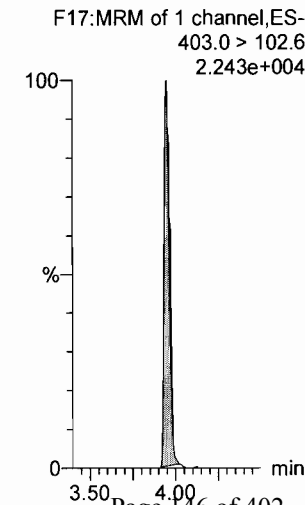
### 13C2-PFHxA



### 13C4-PFHpA



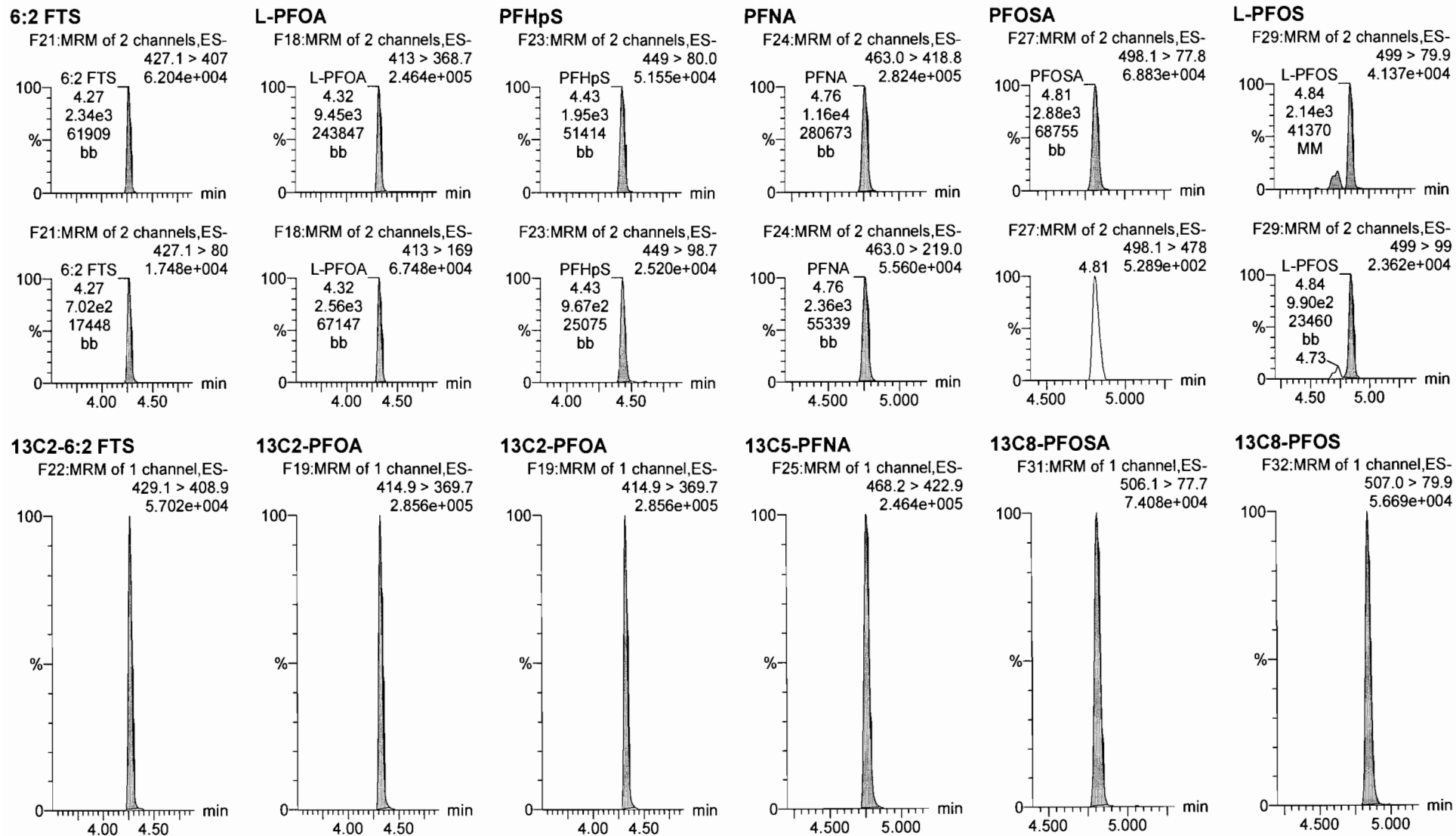
### 18O2-PFHxS



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Printed: Wednesday, November 08, 2017 09:29:08 Pacific Standard Time

Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

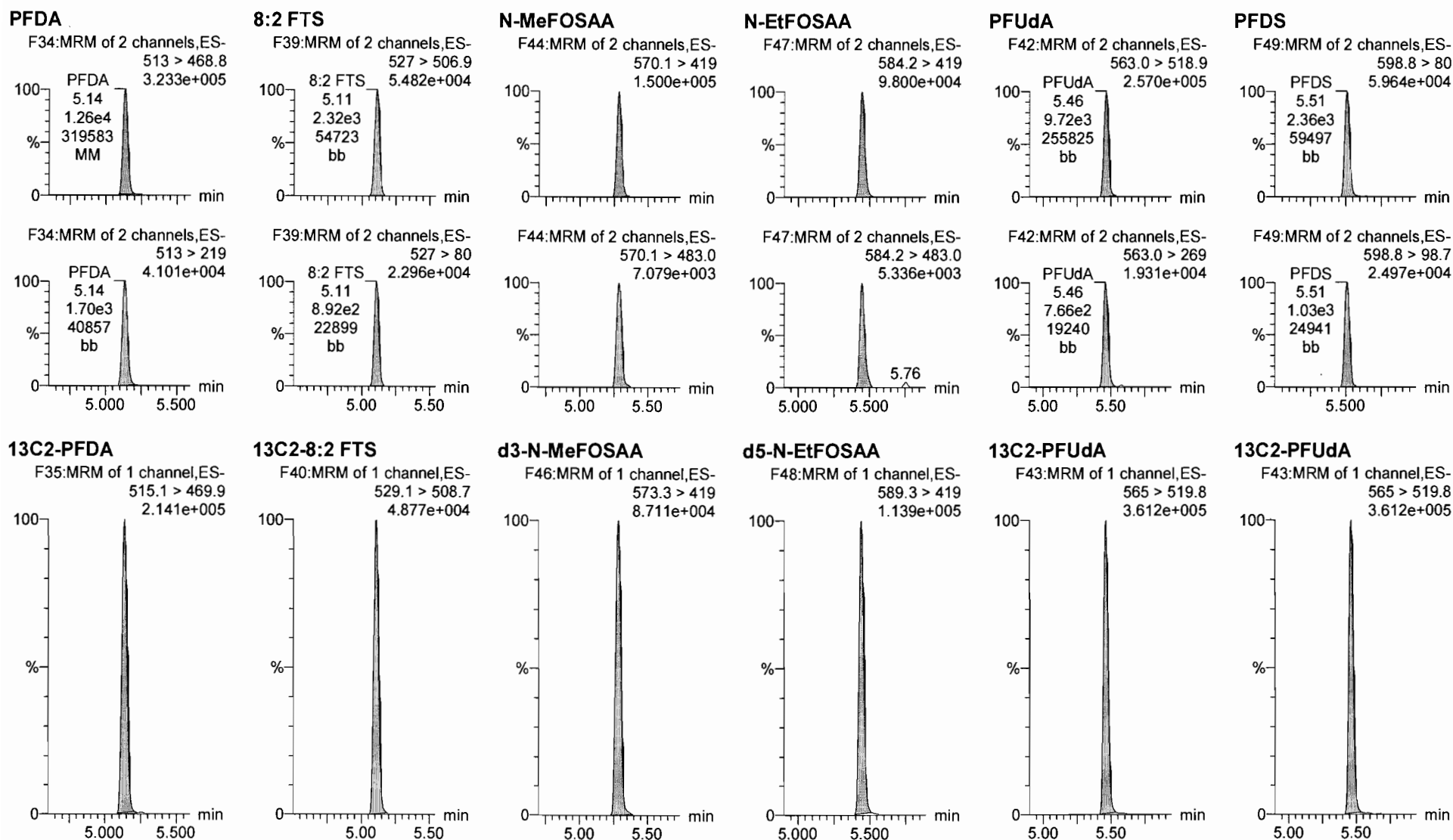




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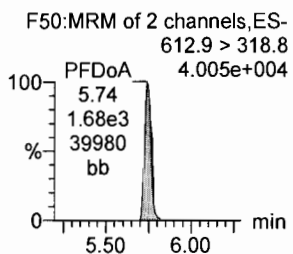
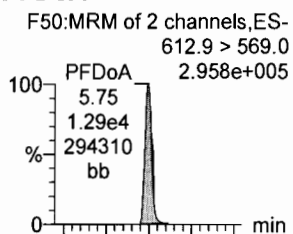
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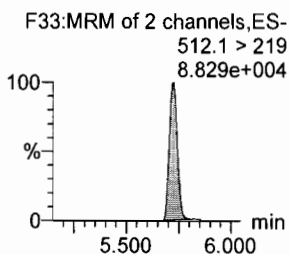
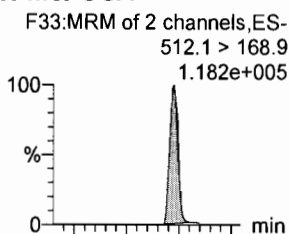
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Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

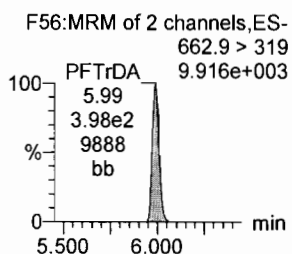
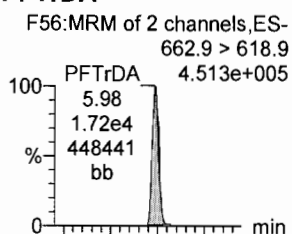
**PFDaA**



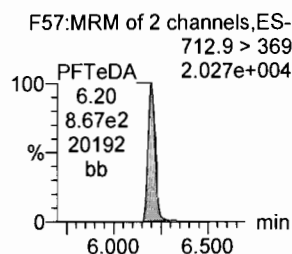
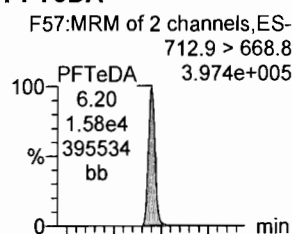
**N-MeFOSA**



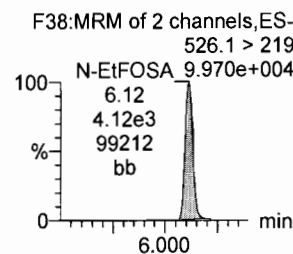
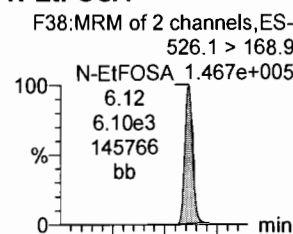
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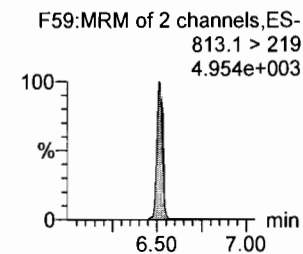
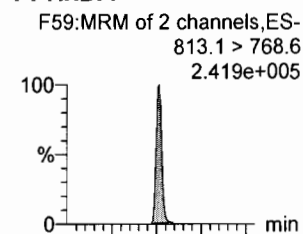
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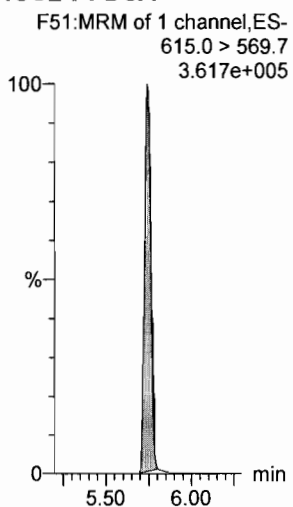
**N-EtFOSA**



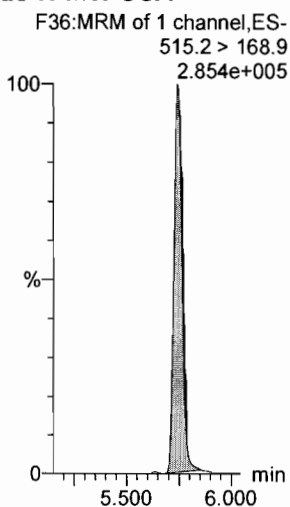
**PFHxDA**



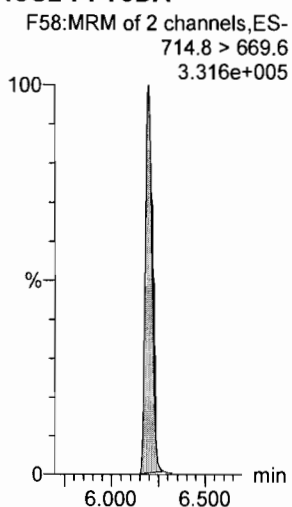
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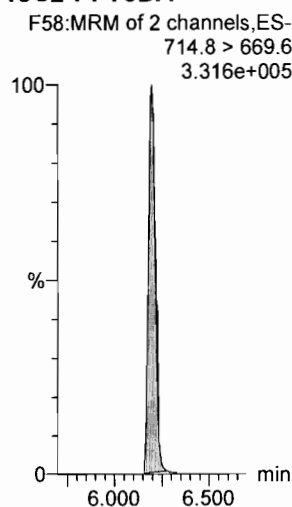
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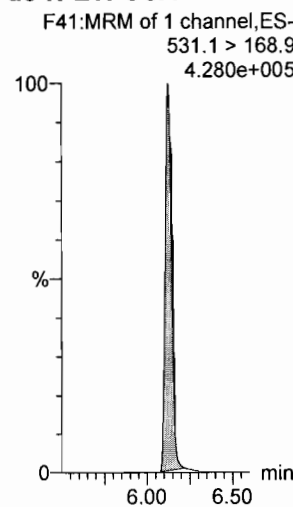
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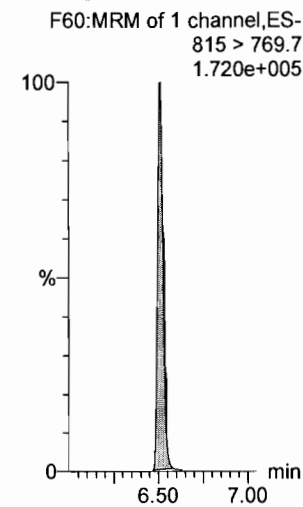
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**d5-N-ETFOSA**



**13C2-PFHxDA**



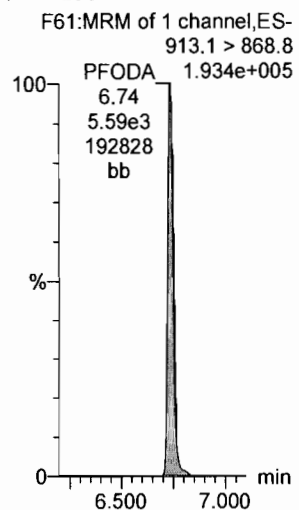
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Last Altered: Wednesday, November 08, 2017 09:28:29 Pacific Standard Time

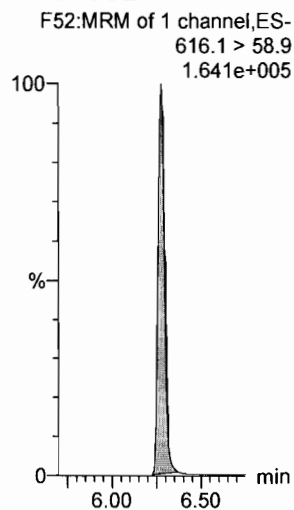
Printed: Wednesday, November 08, 2017 09:29:08 Pacific Standard Time

Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

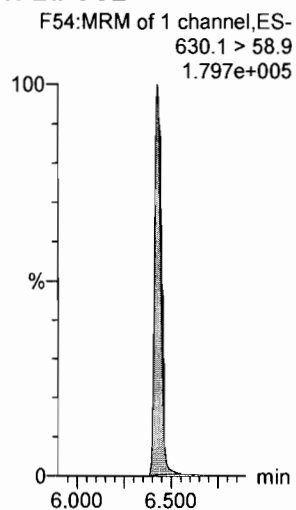
**PFODA**



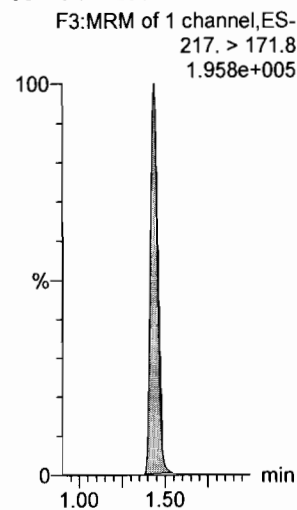
**N-MeFOSE**



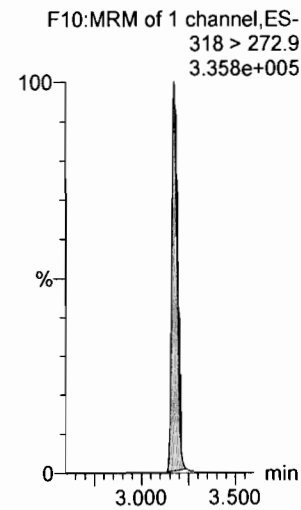
**N-EtFOSE**



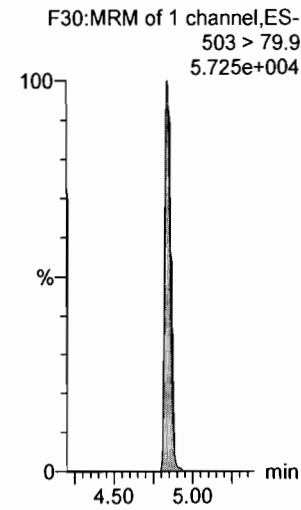
**13C4-PFBA**



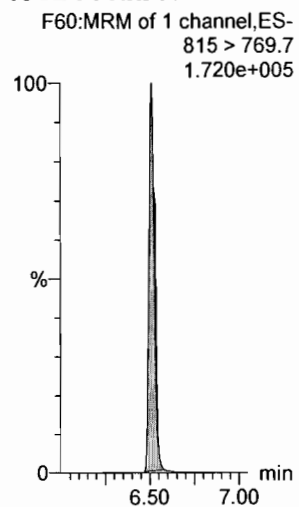
**13C5-PFHxA**



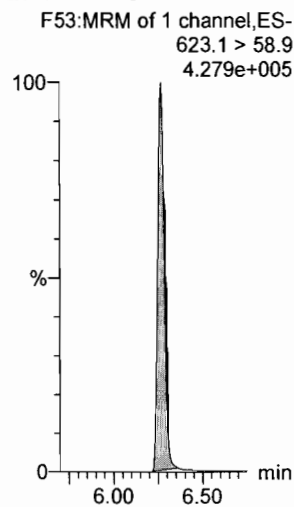
**13C4-PFOS**



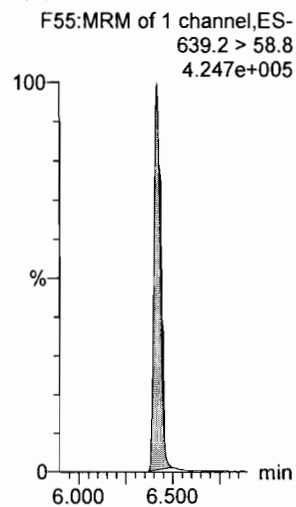
**13C2-PFHxDA**



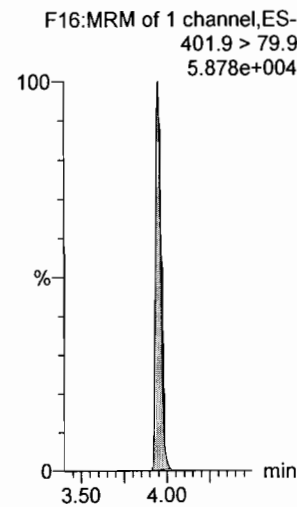
**d7-N-MeFOSE**



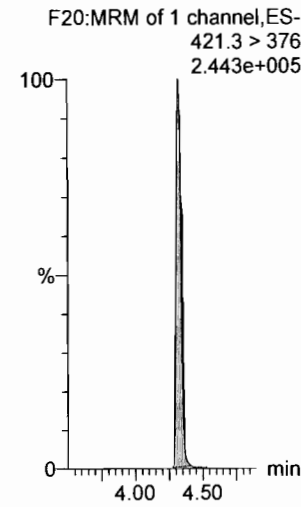
**d9-N-EtFOSE**



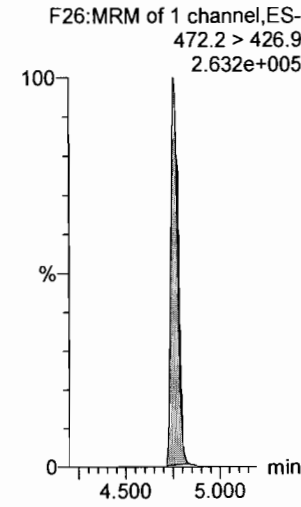
**13C3-PFHxS**



**13C8-PFOA**



**13C9-PFNA**



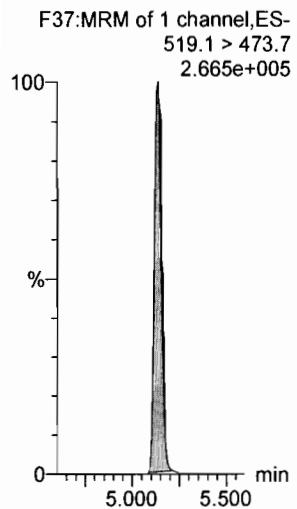
Dataset: U:\Q4.PRO\results\171107M2\171107M2-6.qld

Last Altered: Wednesday, November 08, 2017 09:28:29 Pacific Standard Time

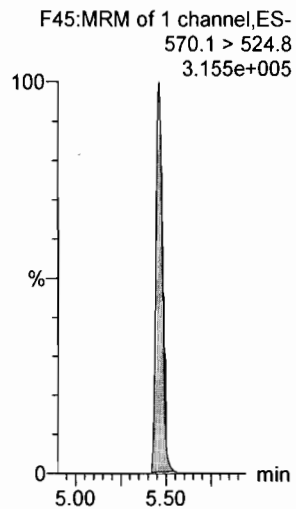
Printed: Wednesday, November 08, 2017 09:29:08 Pacific Standard Time

Name: 171107M2\_6, Date: 07-Nov-2017, Time: 22:40:16, ID: ST171107M2-2 PFC CS3 17J2710, Description: PFC CS3 17J28710

**13C6-PFDA**



**13C7-PFUDa**



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

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 26 Oct 2017 08:20:12

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:24:20

**Compound name: PFBA**Correlation coefficient:  $r = 0.999162$ ,  $r^2 = 0.998324$ Calibration curve:  $1.25384 * x + -0.0149356$ 

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

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

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	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171026M1_2	Standard	0.250	1.25	169.410	7808.215	0.271	0.2	-8.7	NO	0.998	NO	MM
2	2 171026M1_3	Standard	0.500	1.25	378.556	8572.229	0.552	0.5	-9.6	NO	0.998	NO	MM
3	3 171026M1_4	Standard	1.000	1.25	971.693	7984.760	1.521	1.2	22.5	NO	0.998	NO	MM
4	4 171026M1_5	Standard	2.000	1.25	1475.644	8054.466	2.290	1.8	-8.1	NO	0.998	NO	MM
5	5 171026M1_6	Standard	5.000	1.25	3254.984	6778.724	6.002	4.8	-4.0	NO	0.998	NO	bb
6	6 171026M1_7	Standard	10.000	1.23	9473.223	8629.076	13.723	11.0	9.6	NO	0.998	NO	bb
7	7 171026M1_8	Standard	50.000	1.25	36005.004	7455.317	60.368	48.2	-3.7	NO	0.998	NO	bb
8	8 171026M1_9	Standard	100.000	1.25	70425.258	7419.347	118.651	94.6	-5.4	NO	0.998	NO	bb
9	9 171026M1_10	Standard	250.000	1.25	177538.250	6902.076	321.531	256.4	2.6	NO	0.998	NO	bb

**Compound name: PFPeA**Correlation coefficient:  $r = 0.999675$ ,  $r^2 = 0.999351$ Calibration curve:  $1.1515 * x + 0.0271081$ 

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 171026M1_2	Standard	0.250	2.22	195.461	8408.983	0.291	0.2	-8.5	NO	0.999	NO	MM
2	2 171026M1_3	Standard	0.500	2.22	410.022	8868.642	0.578	0.5	-4.3	NO	0.999	NO	bb
3	3 171026M1_4	Standard	1.000	2.23	957.906	8877.859	1.349	1.1	14.8	NO	0.999	NO	bb
4	4 171026M1_5	Standard	2.000	2.23	1564.483	8596.897	2.275	2.0	-2.4	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	2.22	3290.001	7755.411	5.303	4.6	-8.4	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	2.22	9504.004	9337.942	12.722	11.0	10.2	NO	0.999	NO	bb
7	7 171026M1_8	Standard	50.000	2.23	37194.707	8015.438	58.005	50.3	0.7	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	2.23	70141.914	7838.237	111.859	97.1	-2.9	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	2.23	175476.359	7562.272	290.052	251.9	0.7	NO	0.999	NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFBS**Correlation coefficient:  $r = 0.998426$ ,  $r^2 = 0.996854$ Calibration curve:  $2.43502 * x + 0.00496287$ 

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 171026M1_2	Standard	0.250	2.51	56.109	942.759	0.744	0.3	21.4	NO	0.997	NO	MM
2	2 171026M1_3	Standard	0.500	2.50	109.096	1150.455	1.185	0.5	-3.0	NO	0.997	NO	bb
3	3 171026M1_4	Standard	1.000	2.51	246.749	1085.497	2.841	1.2	16.5	NO	0.997	NO	bb
4	4 171026M1_5	Standard	2.000	2.51	350.747	1130.237	3.879	1.6	-20.4	NO	0.997	NO	bb
5	5 171026M1_6	Standard	5.000	2.51	808.830	946.956	10.677	4.4	-12.3	NO	0.997	NO	bb
6	6 171026M1_7	Standard	10.000	2.51	2276.402	1107.306	25.698	10.6	5.5	NO	0.997	NO	bb
7	7 171026M1_8	Standard	50.000	2.51	8724.820	930.832	117.164	48.1	-3.8	NO	0.997	NO	bb
8	8 171026M1_9	Standard	100.000	2.51	16856.811	937.808	224.684	92.3	-7.7	NO	0.997	NO	bb
9	9 171026M1_10	Standard	250.000	2.51	41762.863	824.913	632.837	259.9	4.0	NO	0.997	NO	bb

**Compound name: PFHxA**Correlation coefficient:  $r = 0.999732$ ,  $r^2 = 0.999465$ Calibration curve:  $1.66208 * x + 0.0769658$ 

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 171026M1_2	Standard	0.250	3.00	283.989	2942.526	0.483	0.2	-2.4	NO	0.999	NO	bb
2	2 171026M1_3	Standard	0.500	3.00	587.805	3685.471	0.797	0.4	-13.3	NO	0.999	NO	MM
3	3 171026M1_4	Standard	1.000	3.00	1424.702	3516.192	2.026	1.2	17.3	NO	0.999	NO	MM
4	4 171026M1_5	Standard	2.000	3.00	2232.012	3262.653	3.421	2.0	0.6	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	3.00	4890.172	2910.139	8.402	5.0	0.2	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	3.00	13203.137	3962.694	16.659	10.0	-0.2	NO	0.999	NO	bb
7	7 171026M1_8	Standard	50.000	3.00	54375.723	3263.629	83.306	50.1	0.1	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	3.00	99396.352	3101.273	160.251	96.4	-3.6	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	3.00	243237.984	2886.449	421.345	253.5	1.4	NO	0.999	NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFHpA**Correlation coefficient:  $r = 0.998813$ ,  $r^2 = 0.997628$ Calibration curve:  $1.51217 * x + -0.00204214$ 

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 171026M1_2	Standard	0.250	3.62	217.491	6975.456	0.390	0.3	3.6	NO	0.998	NO	MM
2	2 171026M1_3	Standard	0.500	3.62	435.150	8073.077	0.674	0.4	-10.6	NO	0.998	NO	bb
3	3 171026M1_4	Standard	1.000	3.62	1150.884	7874.637	1.827	1.2	20.9	NO	0.998	NO	bb
4	4 171026M1_5	Standard	2.000	3.62	1765.486	7732.312	2.854	1.9	-5.6	NO	0.998	NO	MM
5	5 171026M1_6	Standard	5.000	3.62	3955.650	7137.554	6.928	4.6	-8.3	NO	0.998	NO	bb
6	6 171026M1_7	Standard	10.000	3.63	11140.995	8761.563	15.895	10.5	5.1	NO	0.998	NO	bb
7	7 171026M1_8	Standard	50.000	3.62	44386.152	7381.024	75.169	49.7	-0.6	NO	0.998	NO	bb
8	8 171026M1_9	Standard	100.000	3.63	82448.250	7389.083	139.476	92.2	-7.8	NO	0.998	NO	bb
9	9 171026M1_10	Standard	250.000	3.63	210467.547	6745.937	389.989	257.9	3.2	NO	0.998	NO	bb

**Compound name: L-PFHxS**Correlation coefficient:  $r = 0.998527$ ,  $r^2 = 0.997056$ Calibration curve:  $2.44187 * x + -0.197337$ 

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 171026M1_2	Standard	0.250	3.77	33.810	852.741	0.496	0.3	13.5	NO	0.997	NO	MM
2	2 171026M1_3	Standard	0.500	3.77	87.560	950.357	1.152	0.6	10.5	NO	0.997	NO	MM
3	3 171026M1_4	Standard	1.000	3.77	183.248	1000.627	2.289	1.0	1.8	NO	0.997	NO	MM
4	4 171026M1_5	Standard	2.000	3.78	262.817	901.116	3.646	1.6	-21.3	NO	0.997	NO	MM
5	5 171026M1_6	Standard	5.000	3.78	645.315	720.817	11.191	4.7	-6.7	NO	0.997	NO	MM
6	6 171026M1_7	Standard	10.000	3.78	2009.132	930.634	26.986	11.1	11.3	NO	0.997	NO	MM
7	7 171026M1_8	Standard	50.000	3.78	7421.165	812.195	114.215	46.9	-6.3	NO	0.997	NO	MM
8	8 171026M1_9	Standard	100.000	3.78	14385.692	788.162	228.153	93.5	-6.5	NO	0.997	NO	MM
9	9 171026M1_10	Standard	250.000	3.78	34045.094	672.689	632.631	259.2	3.7	NO	0.997	NO	MM



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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: 6:2 FTS**Coefficient of Determination:  $R^2 = 0.990378$ Calibration curve:  $-0.00338904 * x^2 + 1.06688 * x + -0.0276541$ 

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 171026M1_2	Standard	0.250	4.10	38.764	2164.565	0.224	0.2	-5.6	NO	0.990	NO	MM
2	2 171026M1_3	Standard	0.500	4.09	76.205	2370.950	0.402	0.4	-19.4	NO	0.990	NO	MM
3	3 171026M1_4	Standard	1.000	4.10	260.433	2607.028	1.249	1.2	20.1	NO	0.990	NO	MM
4	4 171026M1_5	Standard	2.000	4.10	371.059	2213.204	2.096	2.0	0.2	NO	0.990	NO	MM
5	5 171026M1_6	Standard	5.000	4.10	723.532	2011.325	4.497	4.3	-14.0	NO	0.990	NO	bb
6	6 171026M1_7	Standard	10.000	4.10	2375.465	2322.365	12.786	12.5	25.1	NO	0.990	NO	bb
7	7 171026M1_8	Standard	50.000	4.10	8057.026	2423.382	41.559	45.6	-8.8	NO	0.990	NO	MM
8	8 171026M1_9	Standard	100.000	4.10	16916.268	2849.847	74.198	103.8	3.8	NO	0.990	NO	MM
9	9 171026M1_10	Standard	250.000	4.10	42048.867	3989.678	131.743			NO	0.990	NO	MMXI

**Compound name: L-PFOA**Correlation coefficient:  $r = 0.999419$ ,  $r^2 = 0.998838$ Calibration curve:  $1.12797 * x + 0.284504$ 

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 171026M1_2	Standard	0.250	4.15	471.538	9078.071	0.649	0.3	29.4	NO	0.999	NO	bb
2	2 171026M1_3	Standard	0.500	4.15	637.530	11620.861	0.686	0.4	-28.9	NO	0.999	NO	bb
3	3 171026M1_4	Standard	1.000	4.15	1432.158	11362.964	1.575	1.1	14.5	NO	0.999	NO	bb
4	4 171026M1_5	Standard	2.000	4.15	2028.134	10917.326	2.322	1.8	-9.7	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	4.15	4240.121	9732.542	5.446	4.6	-8.5	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	4.16	12624.870	12620.936	12.504	10.8	8.3	NO	0.999	NO	bb
7	7 171026M1_8	Standard	50.000	4.15	46626.160	10698.399	54.478	48.0	-3.9	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	4.15	87781.883	10016.809	109.543	96.9	-3.1	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	4.15	215229.203	9351.515	287.693	254.8	1.9	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFHps**

Coefficient of Determination:  $R^2 = 0.998365$

Calibration curve:  $4.65786e-005 * x^2 + 0.203609 * x + 0.0252184$

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 171026M1_2	Standard	0.250	4.26	60.156	9078.071	0.083	0.3	13.2	NO	0.998	NO	bb
2	2 171026M1_3	Standard	0.500	4.26	97.399	11620.861	0.105	0.4	-21.9	NO	0.998	NO	bb
3	3 171026M1_4	Standard	1.000	4.27	221.282	11362.964	0.243	1.1	7.1	NO	0.998	NO	bb
4	4 171026M1_5	Standard	2.000	4.27	363.685	10917.326	0.416	1.9	-4.0	NO	0.998	NO	bb
5	5 171026M1_6	Standard	5.000	4.26	747.675	9732.542	0.960	4.6	-8.2	NO	0.998	NO	bb
6	6 171026M1_7	Standard	10.000	4.27	2336.865	12620.936	2.314	11.2	12.1	NO	0.998	NO	bb
7	7 171026M1_8	Standard	50.000	4.27	9392.685	10698.399	10.974	53.1	6.3	NO	0.998	NO	bb
8	8 171026M1_9	Standard	100.000	4.27	15827.031	10016.809	19.751	94.8	-5.2	NO	0.998	NO	bb
9	9 171026M1_10	Standard	250.000	4.26	40503.746	9351.515	54.141	251.3	0.5	NO	0.998	NO	bb

**Compound name: PFNA**

Coefficient of Determination:  $R^2 = 0.997109$

Calibration curve:  $-0.000379675 * x^2 + 1.44302 * x + 0.0895267$

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 171026M1_2	Standard	0.250	4.59	298.739	10432.768	0.358	0.2	-25.6	NO	0.997	NO	bb
2	2 171026M1_3	Standard	0.500	4.59	616.104	10776.714	0.715	0.4	-13.4	NO	0.997	NO	bb
3	3 171026M1_4	Standard	1.000	4.59	1536.325	10136.376	1.895	1.3	25.1	NO	0.997	NO	bb
4	4 171026M1_5	Standard	2.000	4.59	2228.166	9401.615	2.962	2.0	-0.4	NO	0.997	NO	bb
5	5 171026M1_6	Standard	5.000	4.59	4653.905	8632.302	6.739	4.6	-7.7	NO	0.997	NO	bb
6	6 171026M1_7	Standard	10.000	4.60	15142.974	10614.531	17.833	12.3	23.4	NO	0.997	NO	bb
7	7 171026M1_8	Standard	50.000	4.59	54084.996	9136.932	73.992	51.9	3.8	NO	0.997	NO	bb
8	8 171026M1_9	Standard	100.000	4.59	99947.945	9445.277	132.272	93.9	-6.1	NO	0.997	NO	bb
9	9 171026M1_10	Standard	250.000	4.59	241162.719	8871.991	339.781	252.1	0.9	NO	0.997	NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFOSA**Correlation coefficient:  $r = 0.998461$ ,  $r^2 = 0.996924$ Calibration curve:  $1.16388 * x + 0.0273367$ 

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 171026M1_2	Standard	0.250	4.64	67.667	2860.033	0.296	0.2	-7.8	NO	0.997	NO	bb
2	2 171026M1_3	Standard	0.500	4.64	160.843	2971.727	0.677	0.6	11.6	NO	0.997	NO	bb
3	3 171026M1_4	Standard	1.000	4.64	330.443	3347.137	1.234	1.0	3.7	NO	0.997	NO	bb
4	4 171026M1_5	Standard	2.000	4.64	583.434	3119.570	2.338	2.0	-0.7	NO	0.997	NO	bb
5	5 171026M1_6	Standard	5.000	4.64	1163.094	2616.420	5.557	4.8	-5.0	NO	0.997	NO	bb
6	6 171026M1_7	Standard	10.000	4.65	3486.776	3417.714	12.753	10.9	9.3	NO	0.997	NO	bb
7	7 171026M1_8	Standard	50.000	4.64	12015.530	3010.790	49.885	42.8	-14.3	NO	0.997	NO	bb
8	8 171026M1_9	Standard	100.000	4.64	25235.262	2679.938	117.705	101.1	1.1	NO	0.997	NO	bb
9	9 171026M1_10	Standard	250.000	4.64	59672.262	2509.948	297.179	255.3	2.1	NO	0.997	NO	bb

**Compound name: L-PFOS**Correlation coefficient:  $r = 0.997357$ ,  $r^2 = 0.994721$ Calibration curve:  $1.1564 * x + -0.0243452$ 

Response type: Internal Std ( Ref 41 ), 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 171026M1_2	Standard	0.250	4.68	53.751	2514.781	0.267	0.3	0.8	NO	0.995	NO	MM
2	2 171026M1_3	Standard	0.500	4.68	89.260	2269.787	0.492	0.4	-10.8	NO	0.995	NO	MM
3	3 171026M1_4	Standard	1.000	4.68	259.248	2388.392	1.357	1.2	19.4	NO	0.995	NO	MM
4	4 171026M1_5	Standard	2.000	4.68	404.457	2373.570	2.130	1.9	-6.9	NO	0.995	NO	MM
5	5 171026M1_6	Standard	5.000	4.68	742.283	2090.799	4.438	3.9	-22.8	NO	0.995	NO	MM
6	6 171026M1_7	Standard	10.000	4.68	2830.883	2570.850	13.764	11.9	19.2	NO	0.995	NO	MM
7	7 171026M1_8	Standard	50.000	4.68	9432.499	2064.157	57.121	49.4	-1.2	NO	0.995	NO	MM
8	8 171026M1_9	Standard	100.000	4.68	18509.137	2233.150	103.604	89.6	-10.4	NO	0.995	NO	MM
9	9 171026M1_10	Standard	250.000	4.68	47303.645	1965.412	300.851	260.2	4.1	NO	0.995	NO	MM

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFDA**Coefficient of Determination:  $R^2 = 0.998744$ Calibration curve:  $0.000670409 * x^2 + 1.3303 * x + 0.180081$ 

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 171026M1_2	Standard	0.250	4.97	372.370	9937.673	0.468	0.2	-13.3	NO	0.999	NO	MM
2	2 171026M1_3	Standard	0.500	4.97	652.787	10867.054	0.751	0.4	-14.2	NO	0.999	NO	MM
3	3 171026M1_4	Standard	1.000	4.97	1419.549	10060.540	1.764	1.2	19.0	NO	0.999	NO	bb
4	4 171026M1_5	Standard	2.000	4.97	2263.442	10558.938	2.680	1.9	-6.1	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	4.97	4849.386	9200.564	6.588	4.8	-3.9	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	4.98	15897.714	12043.707	16.500	12.2	21.9	NO	0.999	NO	bb
7	7 171026M1_8	Standard	50.000	4.97	50889.750	9506.485	66.915	49.0	-2.1	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	4.97	100970.852	9169.604	137.643	98.4	-1.6	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	4.97	271550.188	9033.771	375.743	250.7	0.3	NO	0.999	NO	bb

**Compound name: 8:2 FTS**Coefficient of Determination:  $R^2 = 0.995715$ Calibration curve:  $-0.00382414 * x^2 + 1.3379 * x + 0.459132$ 

Response type: Internal Std ( Ref 43 ), 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 171026M1_2	Standard	0.250	4.94	81.448	1790.163	0.569	0.1	-67.2	NO	0.996	NO	bbX
2	2 171026M1_3	Standard	0.500	4.94	132.352	1649.670	1.003	0.4	-18.6	NO	0.996	NO	bb
3	3 171026M1_4	Standard	1.000	4.94	279.093	1643.484	2.123	1.2	24.8	NO	0.996	NO	bb
4	4 171026M1_5	Standard	2.000	4.94	305.201	1512.175	2.523	1.5	-22.5	NO	0.996	NO	bb
5	5 171026M1_6	Standard	5.000	4.94	1052.290	1698.864	7.743	5.5	10.6	NO	0.996	NO	bb
6	6 171026M1_7	Standard	10.000	4.94	2300.402	1959.247	14.677	11.0	9.7	NO	0.996	NO	bb
7	7 171026M1_8	Standard	50.000	4.94	9184.235	2085.414	55.050	47.2	-5.7	NO	0.996	NO	bb
8	8 171026M1_9	Standard	100.000	4.94	18972.119	2439.029	97.232	102.2	2.2	NO	0.996	NO	bb
9	9 171026M1_10	Standard	250.000	4.94	47933.313	3475.574	172.394			NO	0.996	NO	bbXI

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFDA**

Coefficient of Determination:  $R^2 = 0.998744$

Calibration curve:  $0.000670409 * x^2 + 1.3303 * x + 0.180081$

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 171026M1_2	Standard	0.250	4.97	372.370	9937.673	0.468	0.2	-13.3	NO	0.999	NO	MM
2	2 171026M1_3	Standard	0.500	4.97	652.787	10867.054	0.751	0.4	-14.2	NO	0.999	NO	MM
3	3 171026M1_4	Standard	1.000	4.97	1419.549	10060.540	1.764	1.2	19.0	NO	0.999	NO	bb
4	4 171026M1_5	Standard	2.000	4.97	2263.442	10558.938	2.680	1.9	-6.1	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	4.97	4849.386	9200.564	6.588	4.8	-3.9	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	4.98	15897.714	12043.707	16.500	12.2	21.9	NO	0.999	NO	bb
7	7 171026M1_8	Standard	50.000	4.97	50889.750	9506.485	66.915	49.0	-2.1	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	4.97	100970.852	9169.604	137.643	98.4	-1.6	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	4.97	271550.188	9033.771	375.743	250.7	0.3	NO	0.999	NO	bb

**Compound name: 8:2 FTS**

Coefficient of Determination:  $R^2 = 0.995715$

Calibration curve:  $-0.00382414 * x^2 + 1.3379 * x + 0.459132$

Response type: Internal Std ( Ref 43 ), 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 171026M1_2	Standard	0.250	4.94	81.448	1790.163	0.569	0.1	-67.2	NO	0.996	NO	bbX
2	2 171026M1_3	Standard	0.500	4.94	132.352	1649.670	1.003	0.4	-18.6	NO	0.996	NO	bb
3	3 171026M1_4	Standard	1.000	4.94	279.093	1643.484	2.123	1.2	24.8	NO	0.996	NO	bb
4	4 171026M1_5	Standard	2.000	4.94	305.201	1512.175	2.523	1.5	-22.5	NO	0.996	NO	bb
5	5 171026M1_6	Standard	5.000	4.94	1052.290	1698.864	7.743	5.5	10.6	NO	0.996	NO	bb
6	6 171026M1_7	Standard	10.000	4.94	2300.402	1959.247	14.677	11.0	9.7	NO	0.996	NO	bb
7	7 171026M1_8	Standard	50.000	4.94	9184.235	2085.414	55.050	47.2	-5.7	NO	0.996	NO	bb
8	8 171026M1_9	Standard	100.000	4.94	18972.119	2439.029	97.232	102.2	2.2	NO	0.996	NO	bb
9	9 171026M1_10	Standard	250.000	4.94	47933.313	3475.574	172.394			NO	0.996	NO	bbXI

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: N-MeFOSAA**

Coefficient of Determination:  $R^2 = 0.997869$

Calibration curve:  $-0.000267179 * x^2 + 1.57739 * x + 0.0787904$

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 171026M1_2	Standard	0.250	5.12	171.157	4283.565	0.499	0.3	6.7	NO	0.998	NO	bb
2	2 171026M1_3	Standard	0.500	5.12	251.886	4531.096	0.695	0.4	-21.9	NO	0.998	NO	bb
3	3 171026M1_4	Standard	1.000	5.13	611.555	4244.738	1.801	1.1	9.2	NO	0.998	NO	bb
4	4 171026M1_5	Standard	2.000	5.13	1014.820	4230.691	2.998	1.9	-7.4	NO	0.998	NO	bb
5	5 171026M1_6	Standard	5.000	5.13	2286.861	3763.122	7.596	4.8	-4.6	NO	0.998	NO	bb
6	6 171026M1_7	Standard	10.000	5.13	7505.110	5027.620	18.660	11.8	18.0	NO	0.998	NO	bb
7	7 171026M1_8	Standard	50.000	5.13	26761.980	4070.543	82.182	52.5	5.0	NO	0.998	NO	bb
8	8 171026M1_9	Standard	100.000	5.13	48675.637	4156.273	146.392	94.3	-5.7	NO	0.998	NO	bb
9	9 171026M1_10	Standard	250.000	5.13	120635.273	3964.672	380.344	251.8	0.7	NO	0.998	NO	bb

**Compound name: N-EtFOSAA**

Coefficient of Determination:  $R^2 = 0.994831$

Calibration curve:  $5.282e-005 * x^2 + 1.26472 * x + 0.0301259$

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 171026M1_2	Standard	0.250	5.28	128.703	4328.346	0.372	0.3	8.0	NO	0.995	NO	bb
2	2 171026M1_3	Standard	0.500	5.28	245.150	4608.545	0.665	0.5	0.4	NO	0.995	NO	bb
3	3 171026M1_4	Standard	1.000	5.29	479.197	4596.165	1.303	1.0	0.7	NO	0.995	NO	bb
4	4 171026M1_5	Standard	2.000	5.29	807.240	4598.011	2.195	1.7	-14.4	NO	0.995	NO	bb
5	5 171026M1_6	Standard	5.000	5.28	1751.644	4056.309	5.398	4.2	-15.1	NO	0.995	NO	bb
6	6 171026M1_7	Standard	10.000	5.29	6279.174	4795.402	16.368	12.9	29.1	NO	0.995	NO	bb
7	7 171026M1_8	Standard	50.000	5.29	21268.102	3860.981	68.856	54.3	8.6	NO	0.995	NO	bb
8	8 171026M1_9	Standard	100.000	5.29	38943.199	4197.738	115.965	91.3	-8.7	NO	0.995	NO	bb
9	9 171026M1_10	Standard	250.000	5.28	91337.641	3537.789	322.721	252.5	1.0	NO	0.995	NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFUnA**

Coefficient of Determination:  $R^2 = 0.998990$

Calibration curve:  $-0.000325839 * x^2 + 1.14375 * x + 0.032356$

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 171026M1_2	Standard	0.250	5.30	333.859	11922.407	0.350	0.3	11.1	NO	0.999	NO	MM
2	2 171026M1_3	Standard	0.500	5.30	604.879	14098.658	0.536	0.4	-11.9	NO	0.999	NO	MM
3	3 171026M1_4	Standard	1.000	5.30	1430.892	14676.305	1.219	1.0	3.8	NO	0.999	NO	bb
4	4 171026M1_5	Standard	2.000	5.30	2224.770	13559.280	2.051	1.8	-11.7	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	5.30	5026.863	11695.059	5.373	4.7	-6.5	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	5.30	13767.616	12899.332	13.341	11.7	16.8	NO	0.999	NO	MM
7	7 171026M1_8	Standard	50.000	5.30	56903.492	12601.697	56.444	50.0	0.1	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	5.30	91266.719	10458.104	109.086	98.1	-1.9	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	5.30	226259.609	10618.298	266.356	250.8	0.3	NO	0.999	NO	bb

**Compound name: PFDS**

Coefficient of Determination:  $R^2 = 0.994206$

Calibration curve:  $0.195972 * x$

Response type: Internal Std ( Ref 46 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171026M1_2	Standard	0.250	5.35	45.020	11922.407	0.047	0.2	-3.7	NO	0.994	NO	MMX
2	2 171026M1_3	Standard	0.500	5.35	151.486	14098.658	0.134	0.7	37.1	NO	0.994	NO	MMX
3	3 171026M1_4	Standard	1.000	5.36	213.721	14676.305	0.182	0.9	-7.1	NO	0.994	NO	MM
4	4 171026M1_5	Standard	2.000	5.35	460.999	13559.280	0.425	2.2	8.4	NO	0.994	NO	MM
5	5 171026M1_6	Standard	5.000	5.35	810.285	11695.059	0.866	4.4	-11.6	NO	0.994	NO	MM
6	6 171026M1_7	Standard	10.000	5.36	2627.442	12899.332	2.546	13.0	29.9	NO	0.994	NO	MM
7	7 171026M1_8	Standard	50.000	5.35	9770.502	12601.697	9.692	49.5	-1.1	NO	0.994	NO	MM
8	8 171026M1_9	Standard	100.000	5.35	22998.344	10458.104	27.489	140.3	40.3	NO	0.994	NO	MMX
9	9 171026M1_10	Standard	250.000	5.35	45583.809	10618.298	53.662	273.8	9.5	NO	0.994	NO	MMX

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFDoA**Coefficient of Determination:  $R^2 = 0.997953$ Calibration curve:  $-0.000109132 * x^2 + 1.24453 * x + 0.293856$ 

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 171026M1_2	Standard	0.250	5.59	431.656	13820.625	0.390	0.1	-69.0	NO	0.998	NO	bbX
2	2 171026M1_3	Standard	0.500	5.59	915.266	14554.974	0.786	0.4	-20.9	NO	0.998	NO	MM
3	3 171026M1_4	Standard	1.000	5.59	1861.279	14053.078	1.656	1.1	9.4	NO	0.998	NO	bb
4	4 171026M1_5	Standard	2.000	5.59	3205.994	13740.559	2.917	2.1	5.4	NO	0.998	NO	bb
5	5 171026M1_6	Standard	5.000	5.59	6002.763	12183.269	6.159	4.7	-5.7	NO	0.998	NO	bb
6	6 171026M1_7	Standard	10.000	5.59	19185.148	16125.540	14.872	11.7	17.3	NO	0.998	NO	bb
7	7 171026M1_8	Standard	50.000	5.59	65903.305	14441.244	57.044	45.8	-8.4	NO	0.998	NO	bb
8	8 171026M1_9	Standard	100.000	5.59	124742.266	12225.404	127.544	103.2	3.2	NO	0.998	NO	bb
9	9 171026M1_10	Standard	250.000	5.59	282094.188	11598.803	304.012	249.5	-0.2	NO	0.998	NO	bb

**Compound name: N-MeFOSA**Coefficient of Determination:  $R^2 = 0.999297$ Calibration curve:  $-0.000149877 * x^2 + 1.21877 * x + 0.0856513$ 

Response type: Internal Std ( Ref 48 ), 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 171026M1_2	Standard	1.250	5.59	150.739	13893.939	1.627	1.3	1.2	NO	0.999	NO	bb
2	2 171026M1_3	Standard	2.500	5.59	289.176	15405.037	2.816	2.2	-10.4	NO	0.999	NO	bb
3	3 171026M1_4	Standard	5.000	5.60	725.535	14020.292	7.762	6.3	26.1	NO	0.999	NO	bb
4	4 171026M1_5	Standard	10.000	5.60	1026.968	13929.710	11.059	9.0	-9.9	NO	0.999	NO	bb
5	5 171026M1_6	Standard	25.000	5.59	2433.160	12908.811	28.273	23.2	-7.2	NO	0.999	NO	bb
6	6 171026M1_7	Standard	50.000	5.60	5717.728	13491.567	63.570	52.4	4.9	NO	0.999	NO	bb
7	7 171026M1_8	Standard	250.000	5.60	25214.387	12434.965	304.155	257.7	3.1	NO	0.999	NO	bb
8	8 171026M1_9	Standard	500.000	5.60	44827.070	12026.860	559.087	487.9	-2.4	NO	0.999	NO	bb
9	9 171026M1_10	Standard	1250.000	5.60	102687.719	11915.382	1292.712	1254.0	0.3	NO	0.999	NO	bb



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: PFTTrDA**

Coefficient of Determination:  $R^2 = 0.998625$

Calibration curve:  $0.000400269 * x^2 + 1.32903 * x + 0.10057$

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 171026M1_2	Standard	0.250	5.84	421.703	13820.625	0.381	0.2	-15.5	NO	0.999	NO	MM
2	2 171026M1_3	Standard	0.500	5.84	788.318	14554.974	0.677	0.4	-13.3	NO	0.999	NO	bb
3	3 171026M1_4	Standard	1.000	5.85	1764.051	14053.078	1.569	1.1	10.5	NO	0.999	NO	bb
4	4 171026M1_5	Standard	2.000	5.85	2983.976	13740.559	2.715	2.0	-1.7	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	5.84	6940.688	12183.269	7.121	5.3	5.5	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	5.85	20751.439	16125.540	16.086	12.0	19.8	NO	0.999	NO	bb
7	7 171026M1_8	Standard	50.000	5.85	73393.203	14441.244	63.527	47.1	-5.9	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	5.85	134583.125	12225.404	137.606	100.4	0.4	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	5.84	332029.500	11598.803	357.827	250.3	0.1	NO	0.999	NO	bb

**Compound name: PFTeDA**

Coefficient of Determination:  $R^2 = 0.990408$

Calibration curve:  $-0.0116096 * x^2 + 1.77597 * x + -0.229836$

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 171026M1_2	Standard	0.250	6.06	353.669	9377.037	0.471	0.4	58.4	NO	0.990	NO	MMX
2	2 171026M1_3	Standard	0.500	6.06	672.156	10575.495	0.794	0.6	15.8	NO	0.990	NO	bb
3	3 171026M1_4	Standard	1.000	6.06	1342.364	10644.371	1.576	1.0	2.4	NO	0.990	NO	bb
4	4 171026M1_5	Standard	2.000	6.06	2705.437	11884.834	2.845	1.8	-12.4	NO	0.990	NO	bb
5	5 171026M1_6	Standard	5.000	6.06	5888.760	10706.537	6.875	4.1	-17.8	NO	0.990	NO	bb
6	6 171026M1_7	Standard	10.000	6.06	18380.754	12533.464	18.332	11.3	12.8	NO	0.990	NO	bb
7	7 171026M1_8	Standard	50.000	6.06	61918.887	13048.656	59.315	49.6	-0.7	NO	0.990	NO	db
8	8 171026M1_9	Standard	100.000	6.06	113524.648	11072.916	128.156			NO	0.990	NO	bbXI
9	9 171026M1_10	Standard	250.000	6.06	265615.188	10205.076	325.347			NO	0.990	NO	dbXI

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: N-EtFOSA**Coefficient of Determination:  $R^2 = 0.999879$ Calibration curve:  $1.51717e-005 * x^2 + 1.00753 * x + 0.283778$ 

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 171026M1_2	Standard	1.250	6.02	203.932	19832.848	1.542	1.2	-0.1	NO	1.000	NO	bb
2	2 171026M1_3	Standard	2.500	6.02	358.754	21744.625	2.475	2.2	-13.0	NO	1.000	NO	MM
3	3 171026M1_4	Standard	5.000	6.02	808.101	20019.549	6.055	5.7	14.5	NO	1.000	NO	bb
4	4 171026M1_5	Standard	10.000	6.03	1350.590	19708.096	10.279	9.9	-0.8	NO	1.000	NO	bb
5	5 171026M1_6	Standard	25.000	6.02	3120.174	19092.957	24.513	24.0	-3.8	NO	1.000	NO	bb
6	6 171026M1_7	Standard	50.000	6.03	6858.185	19619.416	52.434	51.7	3.4	NO	1.000	NO	bb
7	7 171026M1_8	Standard	250.000	6.03	30907.031	18301.496	253.316	250.2	0.1	NO	1.000	NO	bb
8	8 171026M1_9	Standard	500.000	6.03	57020.777	16908.625	505.843	498.0	-0.4	NO	1.000	NO	bb
9	9 171026M1_10	Standard	1250.000	6.03	127353.117	14876.408	1284.112	1250.7	0.1	NO	1.000	NO	bb

**Compound name: PFHxDA**Coefficient of Determination:  $R^2 = 0.999290$ Calibration curve:  $-0.000484189 * x^2 + 0.723946 * x + 0.0537259$ 

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 171026M1_2	Standard	0.250	6.39	213.157	4102.797	0.260	0.3	13.9	NO	0.999	NO	bb
2	2 171026M1_3	Standard	0.500	6.40	292.271	4597.595	0.318	0.4	-27.0	NO	0.999	NO	MM
3	3 171026M1_4	Standard	1.000	6.39	624.552	3582.335	0.872	1.1	13.1	NO	0.999	NO	bb
4	4 171026M1_5	Standard	2.000	6.40	1095.076	3826.472	1.431	1.9	-4.8	NO	0.999	NO	bb
5	5 171026M1_6	Standard	5.000	6.39	2960.819	4271.142	3.466	4.7	-5.4	NO	0.999	NO	bb
6	6 171026M1_7	Standard	10.000	6.40	5007.562	3093.651	8.093	11.2	11.9	NO	0.999	NO	bb
7	7 171026M1_8	Standard	50.000	6.40	27038.670	3894.998	34.709	49.5	-1.0	NO	0.999	NO	bb
8	8 171026M1_9	Standard	100.000	6.40	52087.980	3882.136	67.087	99.2	-0.8	NO	0.999	NO	bb
9	9 171026M1_10	Standard	250.000	6.40	137320.813	4546.360	151.023	250.5	0.2	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: N-MeFOSE**

Correlation coefficient:  $r = 0.999413$ ,  $r^2 = 0.998826$

Calibration curve:  $1.06845 * x + 0.279364$

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 171026M1_2	Standard	1.250	6.23	204.517	20802.461	1.475	1.1	-10.5	NO	0.999	NO	bb
2	2 171026M1_3	Standard	2.500	6.23	398.669	23510.152	2.544	2.1	-15.2	NO	0.999	NO	bb
3	3 171026M1_4	Standard	5.000	6.23	978.670	21267.461	6.903	6.2	24.0	NO	0.999	NO	bb
4	4 171026M1_5	Standard	10.000	6.23	1444.513	21867.092	9.909	9.0	-9.9	NO	0.999	NO	bb
5	5 171026M1_6	Standard	25.000	6.23	3483.212	20238.715	25.816	23.9	-4.4	NO	0.999	NO	bb
6	6 171026M1_7	Standard	50.000	6.23	9478.513	22323.734	63.689	59.3	18.7	NO	0.999	NO	bb
7	7 171026M1_8	Standard	250.000	6.23	32783.449	18689.719	263.113	246.0	-1.6	NO	0.999	NO	bb
8	8 171026M1_9	Standard	500.000	6.23	62656.301	17806.627	527.806	493.7	-1.3	NO	0.999	NO	bb
9	9 171026M1_10	Standard	1250.000	6.23	147733.016	16557.975	1338.325	1252.3	0.2	NO	0.999	NO	bb

**Compound name: N-EtFOSE**

Correlation coefficient:  $r = 0.996094$ ,  $r^2 = 0.992203$

Calibration curve:  $1.29546 * x + -0.281193$

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 171026M1_2	Standard	1.250	6.38	185.001	18723.795	1.482	1.4	8.9	NO	0.992	NO	bb
2	2 171026M1_3	Standard	2.500	6.38	430.795	21507.340	3.005	2.5	1.5	NO	0.992	NO	bb
3	3 171026M1_4	Standard	5.000	6.38	1034.048	19338.682	8.021	6.4	28.2	NO	0.992	NO	bb
4	4 171026M1_5	Standard	10.000	6.38	1584.456	20850.943	11.398	9.0	-9.8	NO	0.992	NO	bb
5	5 171026M1_6	Standard	25.000	6.38	3160.580	19199.350	24.693	19.3	-22.9	NO	0.992	NO	bb
6	6 171026M1_7	Standard	50.000	6.38	9352.294	21197.688	66.179	51.3	2.6	NO	0.992	NO	bb
7	7 171026M1_8	Standard	250.000	6.38	34461.918	16038.620	322.303	249.0	-0.4	NO	0.992	NO	bb
8	8 171026M1_9	Standard	500.000	6.38	62399.871	16802.908	557.045	430.2	-14.0	NO	0.992	NO	bb
9	9 171026M1_10	Standard	1250.000	6.38	169561.797	14824.236	1715.722	1324.6	6.0	NO	0.992	NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: 13C3-PFBA**

Response Factor: 0.927532

RRF SD: 0.0280799, Relative SD: 3.02738

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 171026M1_2	Standard	12.500	1.24	7808.215	8131.078	12.004	12.9	3.5	NO		NO	MM
2	2 171026M1_3	Standard	12.500	1.25	8572.229	9182.603	11.669	12.6	0.6	NO		NO	MM
3	3 171026M1_4	Standard	12.500	1.25	7984.760	8448.222	11.814	12.7	1.9	NO		NO	MM
4	4 171026M1_5	Standard	12.500	1.25	8054.466	8533.363	11.798	12.7	1.8	NO		NO	MM
5	5 171026M1_6	Standard	12.500	1.25	6778.724	7846.642	10.799	11.6	-6.9	NO		NO	bb
6	6 171026M1_7	Standard	12.500	1.23	8629.076	9461.365	11.400	12.3	-1.7	NO		NO	MM
7	7 171026M1_8	Standard	12.500	1.25	7455.317	7997.517	11.653	12.6	0.5	NO		NO	MM
8	8 171026M1_9	Standard	12.500	1.25	7419.347	7885.960	11.760	12.7	1.4	NO		NO	bb
9	9 171026M1_10	Standard	12.500	1.25	6902.076	7535.223	11.450	12.3	-1.2	NO		NO	MM

**Compound name: 13C3-PFPeA**

Response Factor: 0.756774

RRF SD: 0.0472101, Relative SD: 6.23833

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 171026M1_2	Standard	12.500	2.22	8408.983	10203.109	10.302	13.6	8.9	NO		NO	MM
2	2 171026M1_3	Standard	12.500	2.22	8868.642	12595.204	8.802	11.6	-7.0	NO		NO	MM
3	3 171026M1_4	Standard	12.500	2.22	8877.859	11545.891	9.611	12.7	1.6	NO		NO	MM
4	4 171026M1_5	Standard	12.500	2.23	8596.897	11375.869	9.446	12.5	-0.1	NO		NO	MM
5	5 171026M1_6	Standard	12.500	2.22	7755.411	10076.924	9.620	12.7	1.7	NO		NO	MM
6	6 171026M1_7	Standard	12.500	2.22	9337.942	13109.532	8.904	11.8	-5.9	NO		NO	MM
7	7 171026M1_8	Standard	12.500	2.22	8015.438	11706.181	8.559	11.3	-9.5	NO		NO	MM
8	8 171026M1_9	Standard	12.500	2.22	7838.237	9834.428	9.963	13.2	5.3	NO		NO	MM
9	9 171026M1_10	Standard	12.500	2.23	7562.272	9519.610	9.930	13.1	5.0	NO		NO	MM

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: 13C3-PFBS**

Response Factor: 0.0907865

RRF SD: 0.00614258, Relative SD: 6.76596

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 171026M1_2	Standard	12.500	2.51	942.759	10203.109	1.155	12.7	1.8	NO		NO	bb
2	2 171026M1_3	Standard	12.500	2.50	1150.455	12595.204	1.142	12.6	0.6	NO		NO	MM
3	3 171026M1_4	Standard	12.500	2.51	1085.497	11545.891	1.175	12.9	3.6	NO		NO	MM
4	4 171026M1_5	Standard	12.500	2.51	1130.237	11375.869	1.242	13.7	9.4	NO		NO	MM
5	5 171026M1_6	Standard	12.500	2.51	946.956	10076.924	1.175	12.9	3.5	NO		NO	bb
6	6 171026M1_7	Standard	12.500	2.51	1107.306	13109.532	1.056	11.6	-7.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	2.51	930.832	11706.181	0.994	10.9	-12.4	NO		NO	bb
8	8 171026M1_9	Standard	12.500	2.51	937.808	9834.428	1.192	13.1	5.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	2.51	824.913	9519.610	1.083	11.9	-4.6	NO		NO	bb

**Compound name: 13C2-PFHxA**

Response Factor: 0.739103

RRF SD: 0.0284957, Relative SD: 3.85545

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 171026M1_2	Standard	5.000	3.00	2942.526	10203.109	3.605	4.9	-2.5	NO		NO	bb
2	2 171026M1_3	Standard	5.000	3.00	3685.471	12595.204	3.658	4.9	-1.0	NO		NO	bb
3	3 171026M1_4	Standard	5.000	3.00	3516.192	11545.891	3.807	5.2	3.0	NO		NO	bb
4	4 171026M1_5	Standard	5.000	3.00	3262.653	11375.869	3.585	4.9	-3.0	NO		NO	bb
5	5 171026M1_6	Standard	5.000	3.00	2910.139	10076.924	3.610	4.9	-2.3	NO		NO	bb
6	6 171026M1_7	Standard	5.000	3.00	3962.694	13109.532	3.778	5.1	2.2	NO		NO	bb
7	7 171026M1_8	Standard	5.000	3.00	3263.629	11706.181	3.485	4.7	-5.7	NO		NO	bb
8	8 171026M1_9	Standard	5.000	3.00	3101.273	9834.428	3.942	5.3	6.7	NO		NO	MM
9	9 171026M1_10	Standard	5.000	3.00	2886.449	9519.610	3.790	5.1	2.6	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: 13C4-PFHpA**

Response Factor: 0.683724

RRF SD: 0.0365931, Relative SD: 5.35203

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 171026M1_2	Standard	12.500	3.62	6975.456	10203.109	8.546	12.5	-0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	3.62	8073.077	12595.204	8.012	11.7	-6.3	NO		NO	bb
3	3 171026M1_4	Standard	12.500	3.62	7874.637	11545.891	8.525	12.5	-0.2	NO		NO	bb
4	4 171026M1_5	Standard	12.500	3.62	7732.312	11375.869	8.496	12.4	-0.6	NO		NO	bb
5	5 171026M1_6	Standard	12.500	3.62	7137.554	10076.924	8.854	12.9	3.6	NO		NO	bb
6	6 171026M1_7	Standard	12.500	3.63	8761.563	13109.532	8.354	12.2	-2.3	NO		NO	bb
7	7 171026M1_8	Standard	12.500	3.62	7381.024	11706.181	7.882	11.5	-7.8	NO		NO	bb
8	8 171026M1_9	Standard	12.500	3.62	7389.083	9834.428	9.392	13.7	9.9	NO		NO	bb
9	9 171026M1_10	Standard	12.500	3.62	6745.937	9519.610	8.858	13.0	3.6	NO		NO	MM

**Compound name: 18O2-PFHxS**

Response Factor: 0.412387

RRF SD: 0.0275105, Relative SD: 6.67104

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 171026M1_2	Standard	12.500	3.78	852.741	2092.944	5.093	12.3	-1.2	NO		NO	bb
2	2 171026M1_3	Standard	12.500	3.78	950.357	2304.136	5.156	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	3.78	1000.627	2153.796	5.807	14.1	12.7	NO		NO	bb
4	4 171026M1_5	Standard	12.500	3.78	901.116	2054.447	5.483	13.3	6.4	NO		NO	bb
5	5 171026M1_6	Standard	12.500	3.78	720.817	1888.806	4.770	11.6	-7.5	NO		NO	bb
6	6 171026M1_7	Standard	12.500	3.78	930.634	2284.629	5.092	12.3	-1.2	NO		NO	bb
7	7 171026M1_8	Standard	12.500	3.78	812.195	1956.825	5.188	12.6	0.6	NO		NO	bb
8	8 171026M1_9	Standard	12.500	3.78	788.162	1910.957	5.156	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	3.78	672.689	1808.740	4.649	11.3	-9.8	NO		NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:24:20 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:25:44 Pacific Daylight Time

**Compound name: 13C2-6:2 FTS**

Response Factor: 0.247918

RRF SD: 0.0352641, Relative SD: 14.2241

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 171026M1_2	Standard	12.500	4.09	2164.565	9163.441	2.953	11.9	-4.7	NO		NO	MM
2	2 171026M1_3	Standard	12.500	4.09	2370.950	9974.912	2.971	12.0	-4.1	NO		NO	MM
3	3 171026M1_4	Standard	12.500	4.10	2607.028	9625.220	3.386	13.7	9.3	NO		NO	MM
4	4 171026M1_5	Standard	12.500	4.10	2213.204	9702.345	2.851	11.5	-8.0	NO		NO	MM
5	5 171026M1_6	Standard	12.500	4.09	2011.325	8490.614	2.961	11.9	-4.4	NO		NO	MM
6	6 171026M1_7	Standard	12.500	4.10	2322.365	11764.812	2.467	10.0	-20.4	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.10	2423.382	9341.111	3.243	13.1	4.6	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.10	2849.847	8996.989	3.959	16.0	27.8	NO		NO	MM
9	9 171026M1_10	Standard	12.500	4.10	3989.678	8181.460	6.096	24.6	96.7	NO		NO	bbX

**Compound name: 13C2-PFOA**

Response Factor: 1.12024

RRF SD: 0.0576361, Relative SD: 5.14497

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 171026M1_2	Standard	12.500	4.15	9078.071	9163.441	12.384	11.1	-11.6	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.15	11620.861	9974.912	14.563	13.0	4.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.15	11362.964	9625.220	14.757	13.2	5.4	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.15	10917.326	9702.345	14.065	12.6	0.4	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.15	9732.542	8490.614	14.328	12.8	2.3	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.15	12620.936	11764.812	13.410	12.0	-4.2	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.15	10698.399	9341.111	14.316	12.8	2.2	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.15	10016.809	8996.989	13.917	12.4	-0.6	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.15	9351.515	8181.460	14.288	12.8	2.0	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 26 Oct 2017 08:20:12

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Compound name: 13C5-PFNA

Response Factor: 0.92855

RRF SD: 0.0475421, Relative SD: 5.12003

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 171026M1_2	Standard	12.500	4.59	10432.768	11155.522	11.690	12.6	0.7	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.59	10776.714	11986.115	11.239	12.1	-3.2	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.59	10136.376	10054.865	12.601	13.6	8.6	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.59	9401.615	10542.347	11.147	12.0	-4.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.59	8632.302	9806.811	11.003	11.8	-5.2	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.59	10614.531	11208.414	11.838	12.7	2.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.59	9136.932	10537.382	10.839	11.7	-6.6	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.59	9445.277	9958.859	11.855	12.8	2.1	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.59	8871.991	9053.401	12.250	13.2	5.5	NO		NO	bb

Compound name: 13C8-PFOSA

Response Factor: 0.24645

RRF SD: 0.0130448, Relative SD: 5.29309

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 171026M1_2	Standard	12.500	4.64	2860.033	11341.706	3.152	12.8	2.3	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.64	2971.727	12520.988	2.967	12.0	-3.7	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.65	3347.137	13233.268	3.162	12.8	2.6	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.65	3119.570	13777.145	2.830	11.5	-8.1	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.64	2616.420	10608.499	3.083	12.5	0.1	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.65	3417.714	13855.948	3.083	12.5	0.1	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.65	3010.790	13032.397	2.888	11.7	-6.3	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.65	2679.938	10013.455	3.345	13.6	8.6	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.64	2509.948	9757.946	3.215	13.0	4.4	NO		NO	bb



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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: 13C8-PFOS**

Response Factor: 1.02732

RRF SD: 0.0754427, Relative SD: 7.34362

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 171026M1_2	Standard	12.500	4.68	2514.781	2234.531	14.068	13.7	9.5	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.68	2269.787	2402.855	11.808	11.5	-8.1	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.68	2388.392	2260.597	13.207	12.9	2.8	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.68	2373.570	2315.592	12.813	12.5	-0.2	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.68	2090.799	1986.232	13.158	12.8	2.5	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.68	2570.850	2506.243	12.822	12.5	-0.2	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.68	2064.157	2328.353	11.082	10.8	-13.7	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.68	2233.150	2003.810	13.931	13.6	8.5	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.68	1965.412	1936.583	12.686	12.3	-1.2	NO		NO	bb

**Compound name: 13C2-PFDA**

Response Factor: 0.945709

RRF SD: 0.0821174, Relative SD: 8.68316

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 171026M1_2	Standard	12.500	4.97	9937.673	9533.811	13.030	13.8	10.2	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.97	10867.054	12756.174	10.649	11.3	-9.9	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.97	10060.540	9677.285	12.995	13.7	9.9	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.97	10558.938	11273.634	11.708	12.4	-1.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.97	9200.564	10655.413	10.793	11.4	-8.7	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.98	12043.707	12000.405	12.545	13.3	6.1	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.97	9506.485	11033.647	10.770	11.4	-8.9	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.97	9169.604	10335.311	11.090	11.7	-6.2	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.97	9033.771	8813.177	12.813	13.5	8.4	NO		NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: 13C2-8:2 FTS**

Response Factor: 0.171094

RRF SD: 0.0340588, Relative SD: 19.9065

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 171026M1_2	Standard	12.500	4.94	1790.163	9533.811	2.347	13.7	9.7	NO		NO	MM
2	2 171026M1_3	Standard	12.500	4.94	1649.670	12756.174	1.617	9.4	-24.4	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.94	1643.484	9677.285	2.123	12.4	-0.7	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.94	1512.175	11273.634	1.677	9.8	-21.6	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.94	1698.864	10655.413	1.993	11.6	-6.8	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.94	1959.247	12000.405	2.041	11.9	-4.6	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.94	2085.414	11033.647	2.363	13.8	10.5	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.94	2439.029	10335.311	2.950	17.2	37.9	NO		NO	MM
9	9 171026M1_10	Standard	12.500	4.94	3475.574	8813.177	4.930	28.8	130.5	NO		NO	bbX

**Compound name: d3-N-MeFOSAA**

Response Factor: 0.357633

RRF SD: 0.0388742, Relative SD: 10.8699

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 171026M1_2	Standard	12.500	5.12	4283.565	11341.706	4.721	13.2	5.6	NO		NO	bb
2	2 171026M1_3	Standard	12.500	5.12	4531.096	12520.988	4.524	12.6	1.2	NO		NO	bb
3	3 171026M1_4	Standard	12.500	5.12	4244.738	13233.268	4.010	11.2	-10.3	NO		NO	bb
4	4 171026M1_5	Standard	12.500	5.12	4230.691	13777.145	3.839	10.7	-14.1	NO		NO	bb
5	5 171026M1_6	Standard	12.500	5.12	3763.122	10608.499	4.434	12.4	-0.8	NO		NO	bb
6	6 171026M1_7	Standard	12.500	5.13	5027.620	13855.948	4.536	12.7	1.5	NO		NO	bb
7	7 171026M1_8	Standard	12.500	5.13	4070.543	13032.397	3.904	10.9	-12.7	NO		NO	bb
8	8 171026M1_9	Standard	12.500	5.13	4156.273	10013.455	5.188	14.5	16.1	NO		NO	bb
9	9 171026M1_10	Standard	12.500	5.12	3964.672	9757.946	5.079	14.2	13.6	NO		NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: d5-N-EtFOSAA**

Response Factor: 0.359693

RRF SD: 0.0347331, Relative SD: 9.65633

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 171026M1_2	Standard	12.500	5.28	4328.346	11341.706	4.770	13.3	6.1	NO		NO	bb
2	2 171026M1_3	Standard	12.500	5.28	4608.545	12520.988	4.601	12.8	2.3	NO		NO	bb
3	3 171026M1_4	Standard	12.500	5.28	4596.165	13233.268	4.341	12.1	-3.4	NO		NO	bb
4	4 171026M1_5	Standard	12.500	5.28	4598.011	13777.145	4.172	11.6	-7.2	NO		NO	bb
5	5 171026M1_6	Standard	12.500	5.28	4056.309	10608.499	4.780	13.3	6.3	NO		NO	bb
6	6 171026M1_7	Standard	12.500	5.28	4795.402	13855.948	4.326	12.0	-3.8	NO		NO	bb
7	7 171026M1_8	Standard	12.500	5.28	3860.981	13032.397	3.703	10.3	-17.6	NO		NO	bb
8	8 171026M1_9	Standard	12.500	5.28	4197.738	10013.455	5.240	14.6	16.5	NO		NO	bb
9	9 171026M1_10	Standard	12.500	5.28	3537.789	9757.946	4.532	12.6	0.8	NO		NO	bb

**Compound name: 13C2-PFUDa**

Response Factor: 1.04482

RRF SD: 0.0695142, Relative SD: 6.65325

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 171026M1_2	Standard	12.500	5.30	11922.407	11341.706	13.140	12.6	0.6	NO		NO	bb
2	2 171026M1_3	Standard	12.500	5.30	14098.658	12520.988	14.075	13.5	7.8	NO		NO	MM
3	3 171026M1_4	Standard	12.500	5.30	14676.305	13233.268	13.863	13.3	6.1	NO		NO	MM
4	4 171026M1_5	Standard	12.500	5.30	13559.280	13777.145	12.302	11.8	-5.8	NO		NO	MM
5	5 171026M1_6	Standard	12.500	5.30	11695.059	10608.499	13.780	13.2	5.5	NO		NO	MM
6	6 171026M1_7	Standard	12.500	5.30	12899.332	13855.948	11.637	11.1	-10.9	NO		NO	MM
7	7 171026M1_8	Standard	12.500	5.30	12601.697	13032.397	12.087	11.6	-7.5	NO		NO	bb
8	8 171026M1_9	Standard	12.500	5.30	10458.104	10013.455	13.055	12.5	-0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	5.30	10618.298	9757.946	13.602	13.0	4.1	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: 13C2-PFDoA**

Response Factor: 1.14113

RRF SD: 0.0738866, Relative SD: 6.47484

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 171026M1_2	Standard	12.500	5.59	13820.625	11341.706	15.232	13.3	6.8	NO		NO	bb
2	2 171026M1_3	Standard	12.500	5.59	14554.974	12520.988	14.531	12.7	1.9	NO		NO	bb
3	3 171026M1_4	Standard	12.500	5.59	14053.078	13233.268	13.274	11.6	-6.9	NO		NO	bb
4	4 171026M1_5	Standard	12.500	5.59	13740.559	13777.145	12.467	10.9	-12.6	NO		NO	bb
5	5 171026M1_6	Standard	12.500	5.59	12183.269	10608.499	14.356	12.6	0.6	NO		NO	bb
6	6 171026M1_7	Standard	12.500	5.59	16125.540	13855.948	14.547	12.7	2.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	5.59	14441.244	13032.397	13.851	12.1	-2.9	NO		NO	bb
8	8 171026M1_9	Standard	12.500	5.59	12225.404	10013.455	15.261	13.4	7.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	5.59	11598.803	9757.946	14.858	13.0	4.2	NO		NO	bb

**Compound name: d3-N-MeFOSA**

Response Factor: 0.0934516

RRF SD: 0.00993873, Relative SD: 10.6352

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 171026M1_2	Standard	150.000	5.62	13893.939	11341.706	15.313	163.9	9.2	NO		NO	bb
2	2 171026M1_3	Standard	150.000	5.62	15405.037	12520.988	15.379	164.6	9.7	NO		NO	bb
3	3 171026M1_4	Standard	150.000	5.62	14020.292	13233.268	13.243	141.7	-5.5	NO		NO	bb
4	4 171026M1_5	Standard	150.000	5.63	13929.710	13777.145	12.638	135.2	-9.8	NO		NO	bb
5	5 171026M1_6	Standard	150.000	5.62	12908.811	10608.499	15.210	162.8	8.5	NO		NO	bd
6	6 171026M1_7	Standard	150.000	5.63	13491.567	13855.948	12.171	130.2	-13.2	NO		NO	bb
7	7 171026M1_8	Standard	150.000	5.63	12434.965	13032.397	11.927	127.6	-14.9	NO		NO	bb
8	8 171026M1_9	Standard	150.000	5.63	12026.860	10013.455	15.013	160.7	7.1	NO		NO	bb
9	9 171026M1_10	Standard	150.000	5.63	11915.382	9757.946	15.264	163.3	8.9	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: 13C2-PFTeDA**

Response Factor: 0.933898

RRF SD: 0.108658, Relative SD: 11.6349

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	171026M1_2	Standard	12.500	6.06	9377.037	11341.706	10.335	11.1	-11.5	NO		NO	bb
2	2	171026M1_3	Standard	12.500	6.06	10575.495	12520.988	10.558	11.3	-9.6	NO		NO	bb
3	3	171026M1_4	Standard	12.500	6.06	10644.371	13233.268	10.055	10.8	-13.9	NO		NO	bb
4	4	171026M1_5	Standard	12.500	6.06	11884.834	13777.145	10.783	11.5	-7.6	NO		NO	bb
5	5	171026M1_6	Standard	12.500	6.06	10706.537	10608.499	12.616	13.5	8.1	NO		NO	bb
6	6	171026M1_7	Standard	12.500	6.06	12533.464	13855.948	11.307	12.1	-3.1	NO		NO	bb
7	7	171026M1_8	Standard	12.500	6.06	13048.656	13032.397	12.516	13.4	7.2	NO		NO	bb
8	8	171026M1_9	Standard	12.500	6.07	11072.916	10013.455	13.823	14.8	18.4	NO		NO	bb
9	9	171026M1_10	Standard	12.500	6.06	10205.076	9757.946	13.073	14.0	12.0	NO		NO	bb

**Compound name: d5-N-ETFOSA**

Response Factor: 0.132054

RRF SD: 0.0131962, Relative SD: 9.99304

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	171026M1_2	Standard	150.000	6.04	19832.848	11341.706	21.858	165.5	10.4	NO		NO	bb
2	2	171026M1_3	Standard	150.000	6.04	21744.625	12520.988	21.708	164.4	9.6	NO		NO	bb
3	3	171026M1_4	Standard	150.000	6.04	20019.549	13233.268	18.910	143.2	-4.5	NO		NO	bb
4	4	171026M1_5	Standard	150.000	6.04	19708.096	13777.145	17.881	135.4	-9.7	NO		NO	bb
5	5	171026M1_6	Standard	150.000	6.04	19092.957	10608.499	22.497	170.4	13.6	NO		NO	bb
6	6	171026M1_7	Standard	150.000	6.04	19619.416	13855.948	17.699	134.0	-10.6	NO		NO	bb
7	7	171026M1_8	Standard	150.000	6.04	18301.496	13032.397	17.554	132.9	-11.4	NO		NO	bb
8	8	171026M1_9	Standard	150.000	6.04	16908.625	10013.455	21.107	159.8	6.6	NO		NO	bb
9	9	171026M1_10	Standard	150.000	6.04	14876.408	9757.946	19.057	144.3	-3.8	NO		NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: 13C2-PFHxDA**

Response Factor: 0.809323

RRF SD: 0.161699, Relative SD: 19.9795

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 171026M1_2	Standard	5.000	6.39	4102.797	11341.706	4.522	5.6	11.7	NO		NO	MM
2	2 171026M1_3	Standard	5.000	6.39	4597.595	12520.988	4.590	5.7	13.4	NO		NO	MM
3	3 171026M1_4	Standard	5.000	6.39	3582.335	13233.268	3.384	4.2	-16.4	NO		NO	MM
4	4 171026M1_5	Standard	5.000	6.40	3826.472	13777.145	3.472	4.3	-14.2	NO		NO	MM
5	5 171026M1_6	Standard	5.000	6.39	4271.142	10608.499	5.033	6.2	24.4	NO		NO	MM
6	6 171026M1_7	Standard	5.000	6.40	3093.651	13855.948	2.791	3.4	-31.0	NO		NO	MM
7	7 171026M1_8	Standard	5.000	6.39	3894.998	13032.397	3.736	4.6	-7.7	NO		NO	MM
8	8 171026M1_9	Standard	5.000	6.40	3882.136	10013.455	4.846	6.0	19.8	NO		NO	MM
9	9 171026M1_10	Standard	5.000	6.40	4546.360	9757.946	5.824	7.2	43.9	NO		NO	MMX

**Compound name: d7-N-MeFOSE**

Response Factor: 0.141984

RRF SD: 0.013133, Relative SD: 9.24964

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 171026M1_2	Standard	150.000	6.22	20802.461	11341.706	22.927	161.5	7.7	NO		NO	bb
2	2 171026M1_3	Standard	150.000	6.22	23510.152	12520.988	23.471	165.3	10.2	NO		NO	bb
3	3 171026M1_4	Standard	150.000	6.22	21267.461	13233.268	20.089	141.5	-5.7	NO		NO	bb
4	4 171026M1_5	Standard	150.000	6.22	21867.092	13777.145	19.840	139.7	-6.8	NO		NO	bb
5	5 171026M1_6	Standard	150.000	6.22	20238.715	10608.499	23.847	168.0	12.0	NO		NO	bb
6	6 171026M1_7	Standard	150.000	6.22	22323.734	13855.948	20.139	141.8	-5.4	NO		NO	bb
7	7 171026M1_8	Standard	150.000	6.22	18689.719	13032.397	17.926	126.3	-15.8	NO		NO	bb
8	8 171026M1_9	Standard	150.000	6.22	17806.627	10013.455	22.228	156.6	4.4	NO		NO	bb
9	9 171026M1_10	Standard	150.000	6.22	16557.975	9757.946	21.211	149.4	-0.4	NO		NO	bb

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: d9-N-EtFOSE**

Response Factor: 0.130657

RRF SD: 0.014186, Relative SD: 10.8574

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 171026M1_2	Standard	150.000	6.37	18723.795	11341.706	20.636	157.9	5.3	NO		NO	bb
2	2 171026M1_3	Standard	150.000	6.37	21507.340	12520.988	21.471	164.3	9.6	NO		NO	bb
3	3 171026M1_4	Standard	150.000	6.37	19338.682	13233.268	18.267	139.8	-6.8	NO		NO	bb
4	4 171026M1_5	Standard	150.000	6.37	20850.943	13777.145	18.918	144.8	-3.5	NO		NO	bb
5	5 171026M1_6	Standard	150.000	6.37	19199.350	10608.499	22.623	173.1	15.4	NO		NO	bb
6	6 171026M1_7	Standard	150.000	6.37	21197.688	13855.948	19.123	146.4	-2.4	NO		NO	bb
7	7 171026M1_8	Standard	150.000	6.37	16038.620	13032.397	15.383	117.7	-21.5	NO		NO	bb
8	8 171026M1_9	Standard	150.000	6.37	16802.908	10013.455	20.975	160.5	7.0	NO		NO	bb
9	9 171026M1_10	Standard	150.000	6.37	14824.236	9757.946	18.990	145.3	-3.1	NO		NO	bb

**Compound name: 13C4-PFBA**

Response Factor: 1

RRF SD: 8.77708e-017, Relative SD: 8.77708e-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 171026M1_2	Standard	12.500	1.24	8131.078	8131.078	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	1.25	9182.603	9182.603	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	1.25	8448.222	8448.222	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	1.25	8533.363	8533.363	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	1.25	7846.642	7846.642	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	1.23	9461.365	9461.365	12.500	12.5	0.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	1.25	7997.517	7997.517	12.500	12.5	0.0	NO		NO	bb
8	8 171026M1_9	Standard	12.500	1.25	7885.960	7885.960	12.500	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	1.25	7535.223	7535.223	12.500	12.5	0.0	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**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 171026M1_2	Standard	12.500	3.00	10203.109	10203.109	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	3.00	12595.204	12595.204	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	3.00	11545.891	11545.891	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	3.00	11375.869	11375.869	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	3.00	10076.924	10076.924	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	3.00	13109.532	13109.532	12.500	12.5	0.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	3.00	11706.181	11706.181	12.500	12.5	0.0	NO		NO	bb
8	8 171026M1_9	Standard	12.500	3.00	9834.428	9834.428	12.500	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	3.00	9519.610	9519.610	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C3-PFHxS**

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

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 171026M1_2	Standard	12.500	3.77	2092.944	2092.944	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	3.78	2304.136	2304.136	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	3.77	2153.796	2153.796	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	3.78	2054.447	2054.447	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	3.78	1888.806	1888.806	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	3.78	2284.629	2284.629	12.500	12.5	0.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	3.78	1956.825	1956.825	12.500	12.5	0.0	NO		NO	bb
8	8 171026M1_9	Standard	12.500	3.78	1910.957	1910.957	12.500	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	3.78	1808.740	1808.740	12.500	12.5	0.0	NO		NO	bb



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**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 171026M1_2	Standard	12.500	4.15	9163.441	9163.441	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.15	9974.912	9974.912	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.15	9625.220	9625.220	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.15	9702.345	9702.345	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.15	8490.614	8490.614	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.15	11764.812	11764.812	12.500	12.5	0.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.15	9341.111	9341.111	12.500	12.5	0.0	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.15	8996.989	8996.989	12.500	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.15	8181.460	8181.460	12.500	12.5	0.0	NO		NO	bb

**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 171026M1_2	Standard	12.500	4.59	11155.522	11155.522	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.59	11986.115	11986.115	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.59	10054.865	10054.865	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.59	10542.347	10542.347	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.59	9806.811	9806.811	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.59	11208.414	11208.414	12.500	12.5	0.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.59	10537.382	10537.382	12.500	12.5	0.0	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.59	9958.859	9958.859	12.500	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.59	9053.401	9053.401	12.500	12.5	0.0	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 1.17757e-016, Relative SD: 1.17757e-014

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 171026M1_2	Standard	12.500	4.68	2234.531	2234.531	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.68	2402.855	2402.855	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.68	2260.597	2260.597	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.68	2315.592	2315.592	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.68	1986.232	1986.232	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.68	2506.243	2506.243	12.500	12.5	0.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.68	2328.353	2328.353	12.500	12.5	0.0	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.68	2003.810	2003.810	12.500	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.68	1936.583	1936.583	12.500	12.5	0.0	NO		NO	bb

**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 171026M1_2	Standard	12.500	4.97	9533.811	9533.811	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	4.97	12756.174	12756.174	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	4.97	9677.285	9677.285	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	4.97	11273.634	11273.634	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	4.97	10655.413	10655.413	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	4.97	12000.405	12000.405	12.500	12.5	0.0	NO		NO	bb
7	7 171026M1_8	Standard	12.500	4.97	11033.647	11033.647	12.500	12.5	0.0	NO		NO	bb
8	8 171026M1_9	Standard	12.500	4.97	10335.311	10335.311	12.500	12.5	0.0	NO		NO	bb
9	9 171026M1_10	Standard	12.500	4.97	8813.177	8813.177	12.500	12.5	0.0	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:36:18 Pacific Daylight Time

Compound name: 13C7-PFUnA

Response Factor: 1

RRF SD: 5.55112e-017, Relative SD: 5.55112e-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 171026M1_2	Standard	12.500	5.30	11341.706	11341.706	12.500	12.5	0.0	NO		NO	bb
2	2 171026M1_3	Standard	12.500	5.30	12520.988	12520.988	12.500	12.5	0.0	NO		NO	bb
3	3 171026M1_4	Standard	12.500	5.30	13233.268	13233.268	12.500	12.5	0.0	NO		NO	bb
4	4 171026M1_5	Standard	12.500	5.30	13777.145	13777.145	12.500	12.5	0.0	NO		NO	bb
5	5 171026M1_6	Standard	12.500	5.30	10608.499	10608.499	12.500	12.5	0.0	NO		NO	bb
6	6 171026M1_7	Standard	12.500	5.30	13855.948	13855.948	12.500	12.5	0.0	NO		NO	MM
7	7 171026M1_8	Standard	12.500	5.30	13032.397	13032.397	12.500	12.5	0.0	NO		NO	MM
8	8 171026M1_9	Standard	12.500	5.30	10013.455	10013.455	12.500	12.5	0.0	NO		NO	MM
9	9 171026M1_10	Standard	12.500	5.30	9757.946	9757.946	12.500	12.5	0.0	NO		NO	bb

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Dataset: Untitled

Last Altered: Friday, October 27, 2017 08:48:34 Pacific Daylight Time

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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 26 Oct 2017 08:20:12

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 26 Oct 2017 16:54:06

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171026M1_1	IPA	26-Oct-17	09:14:50
2	171026M1_2	ST171026M1-1 PFC CS-2 17I3006	26-Oct-17	09:26:00
3	171026M1_3	ST171026M1-2 PFC CS-1 17I3007	26-Oct-17	09:37:20
4	171026M1_4	ST171026M1-3 PFC CS0 17J1805	26-Oct-17	09:48:39
5	171026M1_5	ST171026M1-4 PFC CS1 17J3009	26-Oct-17	09:59:50
6	171026M1_6	ST171026M1-5 PFC CS2 17J2519	26-Oct-17	10:11:00
7	171026M1_7	ST171026M1-6 PFC CS3 17J1806	26-Oct-17	10:22:11
8	171026M1_8	ST171026M1-7 PFC CS4 17J2102	26-Oct-17	10:33:24
9	171026M1_9	ST171026M1-8 PFC CS5 17J2101	26-Oct-17	10:44:36
10	171026M1_10	ST171026M1-9 PFC CS6 17J2517	26-Oct-17	10:55:46
11	171026M1_11	ST171026M1-10 PFC CS7 17J2518	26-Oct-17	11:07:20
12	171026M1_12	IPA	26-Oct-17	11:18:50
13	171026M1_13	ICV171026M1-1 PFC ICV 17I3003	26-Oct-17	11:30:01
14	171026M1_14	IPA	26-Oct-17	11:41:12

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 26 Oct 2017 08:20:12

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

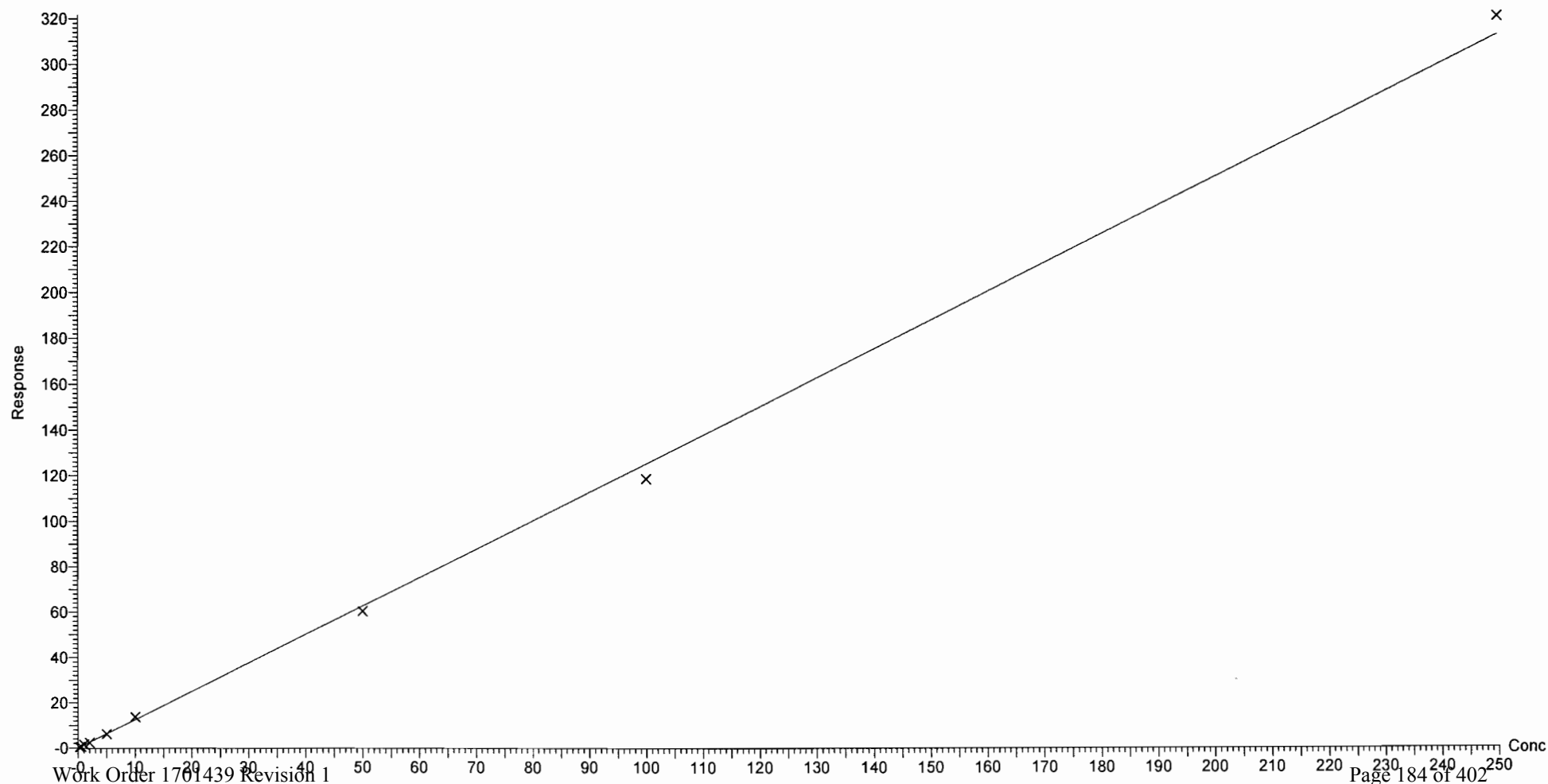
Compound name: PFBA

Correlation coefficient:  $r = 0.999162$ ,  $r^2 = 0.998324$

Calibration curve:  $1.25384 * x + -0.0149356$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

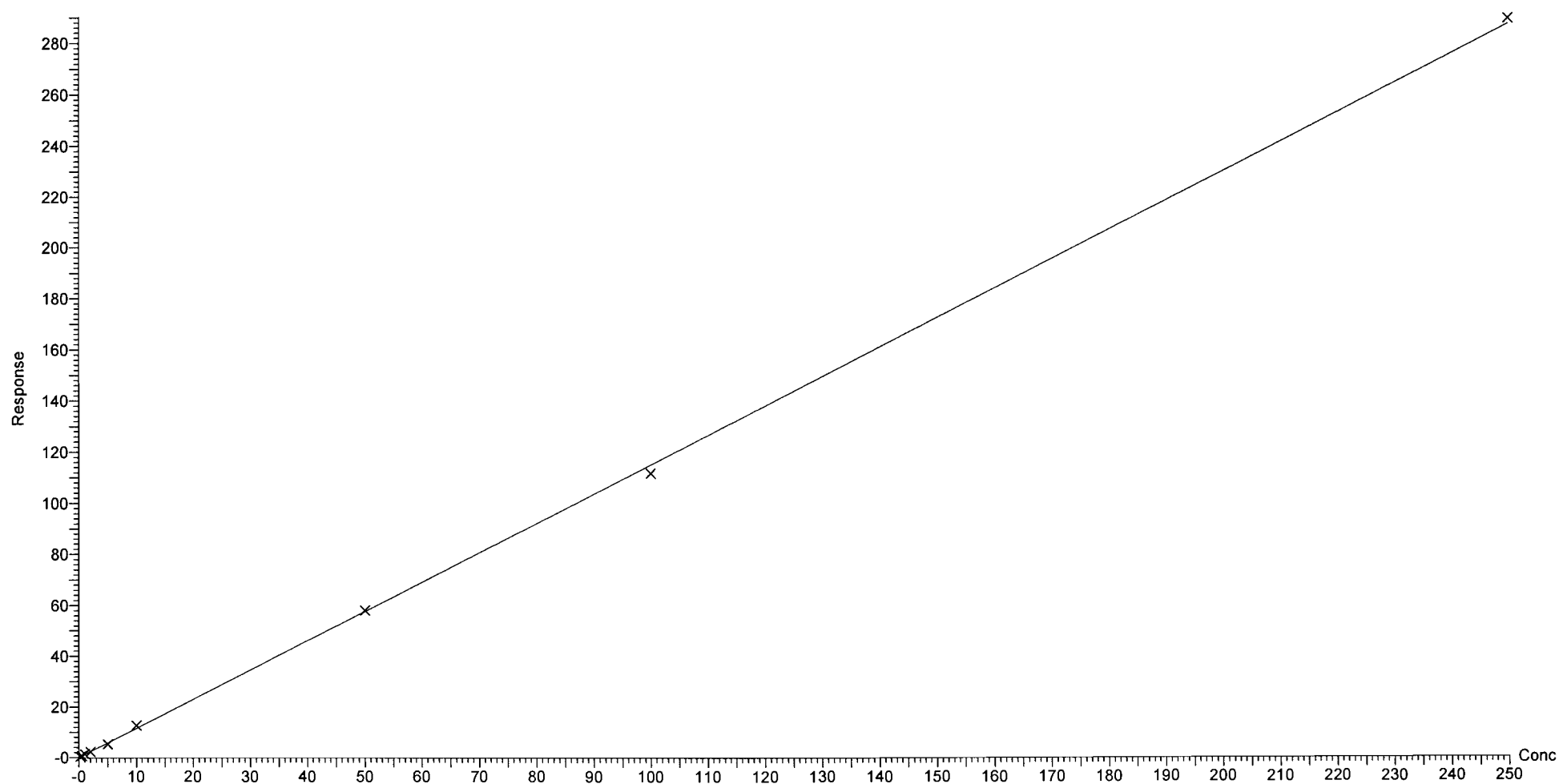
Compound name: PFPeA

Correlation coefficient:  $r = 0.999675$ ,  $r^2 = 0.999351$

Calibration curve:  $1.1515 * x + 0.0271081$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

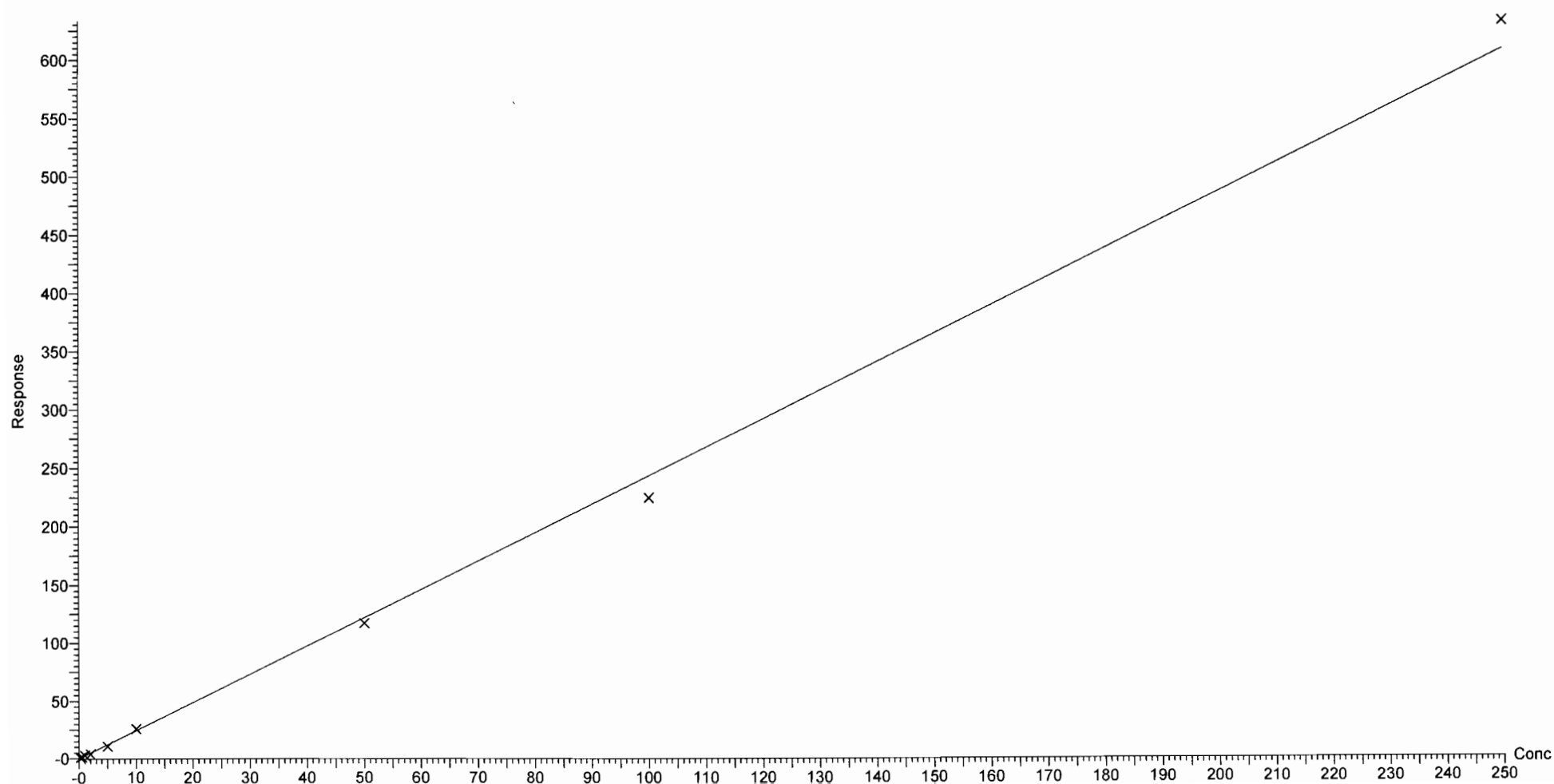
Compound name: PFBS

Correlation coefficient:  $r = 0.998426$ ,  $r^2 = 0.996854$

Calibration curve:  $2.43502 * x + 0.00496287$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

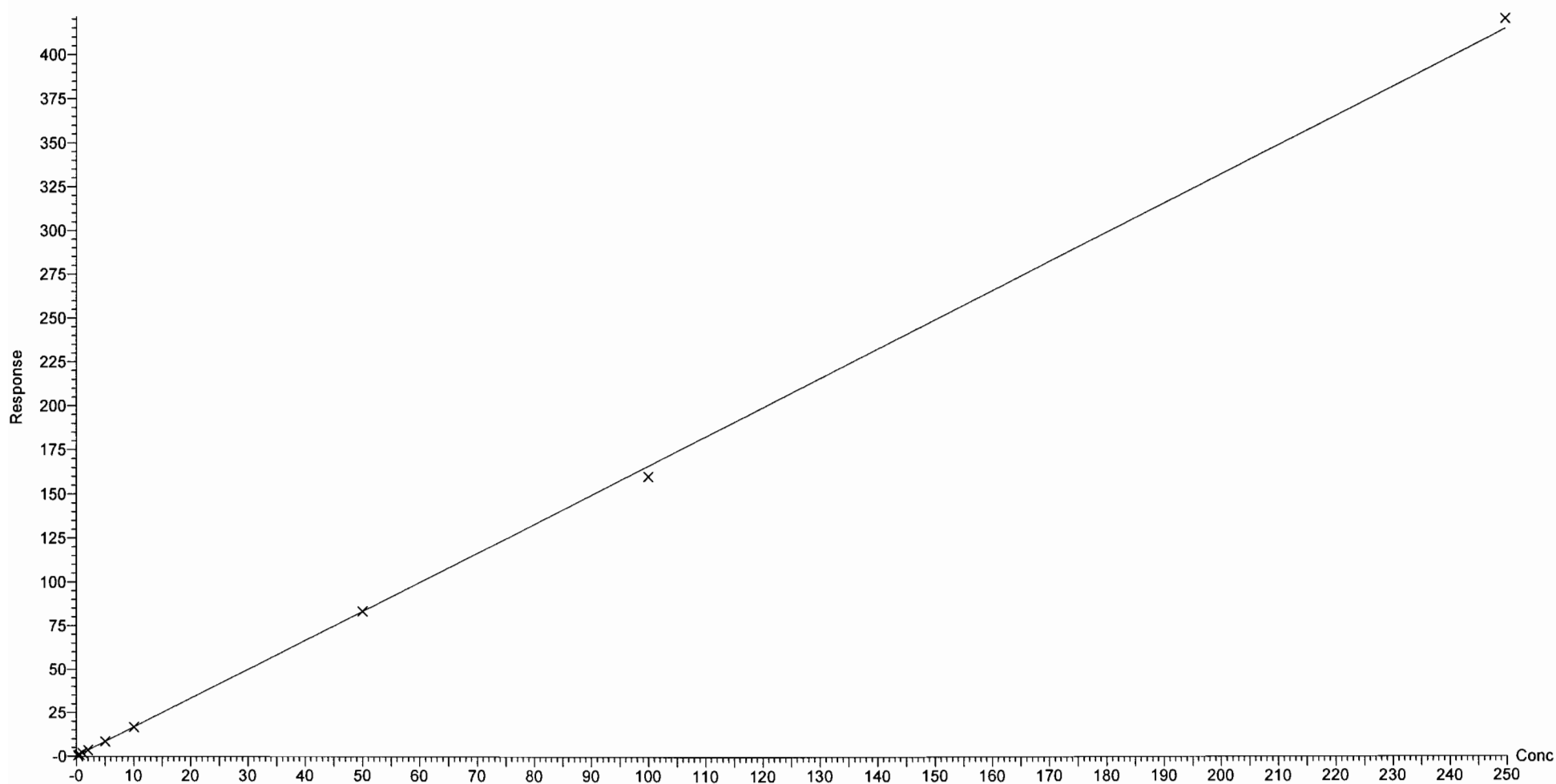
Compound name: PFHxA

Correlation coefficient:  $r = 0.999732$ ,  $r^2 = 0.999465$

Calibration curve:  $1.66208 * x + 0.0769658$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

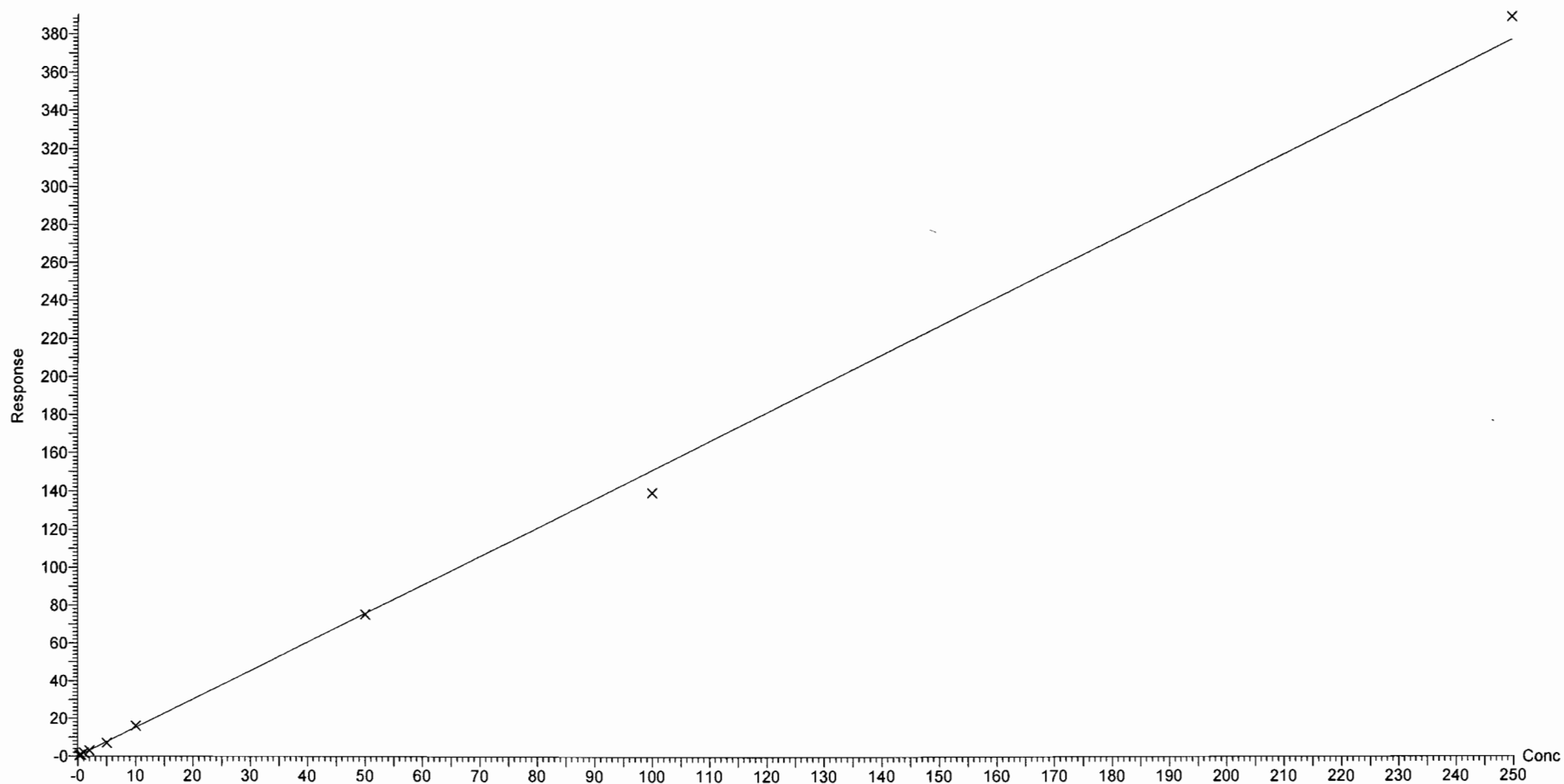
Compound name: PFHpA

Correlation coefficient:  $r = 0.998813$ ,  $r^2 = 0.997628$

Calibration curve:  $1.51217 * x + -0.00204214$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

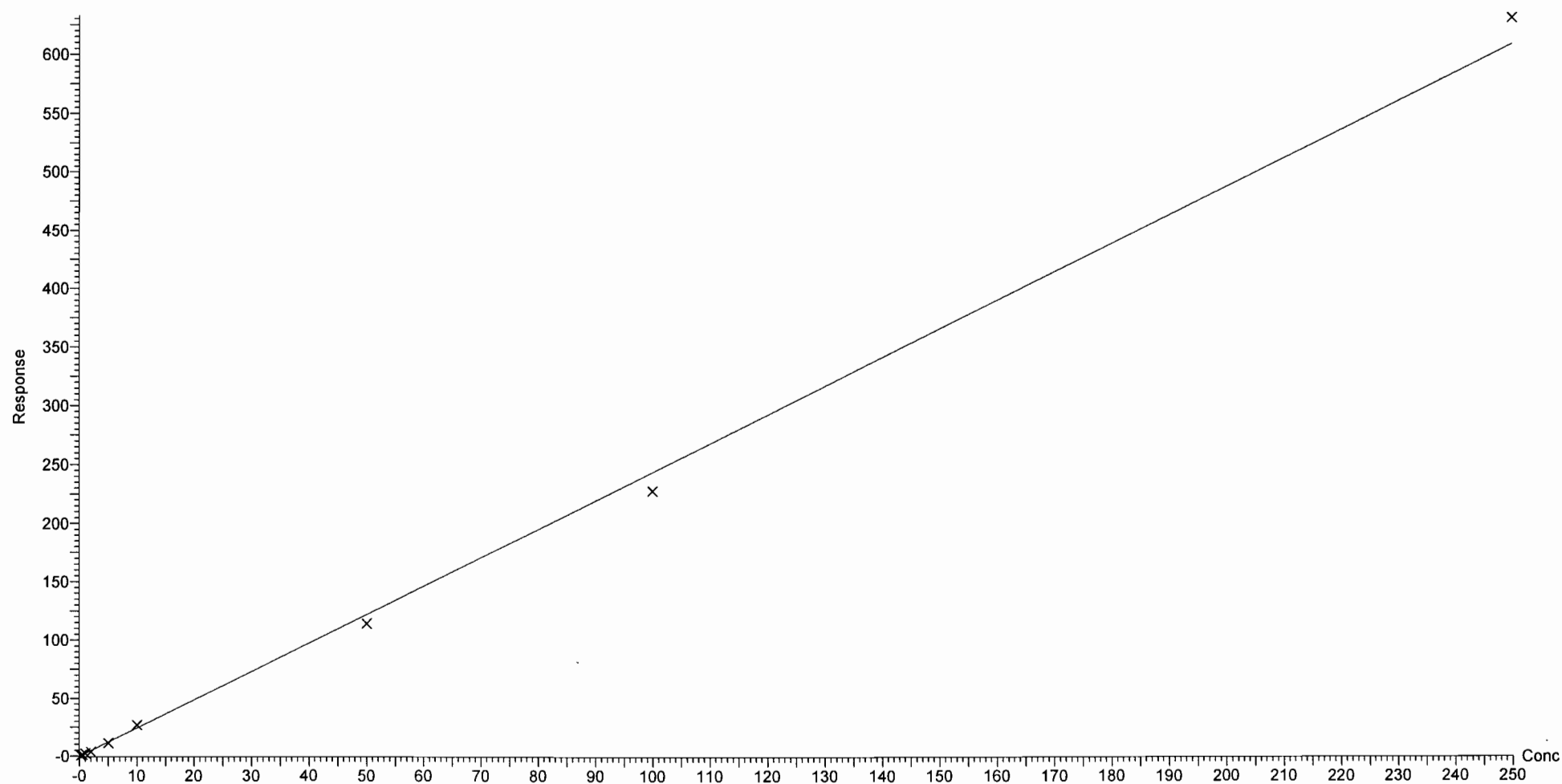
Compound name: L-PFHxS

Correlation coefficient:  $r = 0.998527$ ,  $r^2 = 0.997056$

Calibration curve:  $2.44187 * x + -0.197337$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

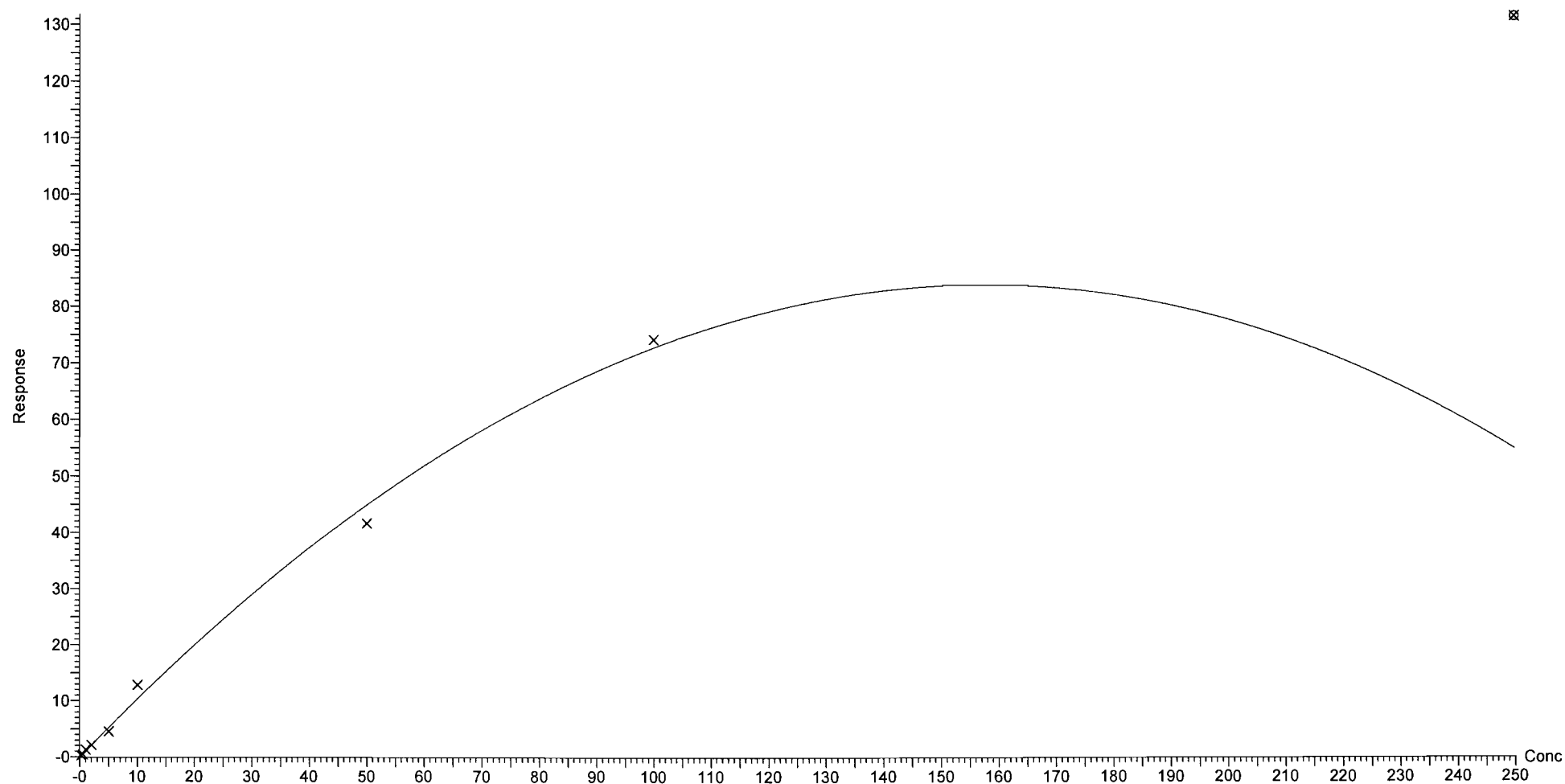
Compound name: 6:2 FTS

Coefficient of Determination:  $R^2 = 0.990378$

Calibration curve:  $-0.00338904 * x^2 + 1.06688 * x + -0.0276541$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

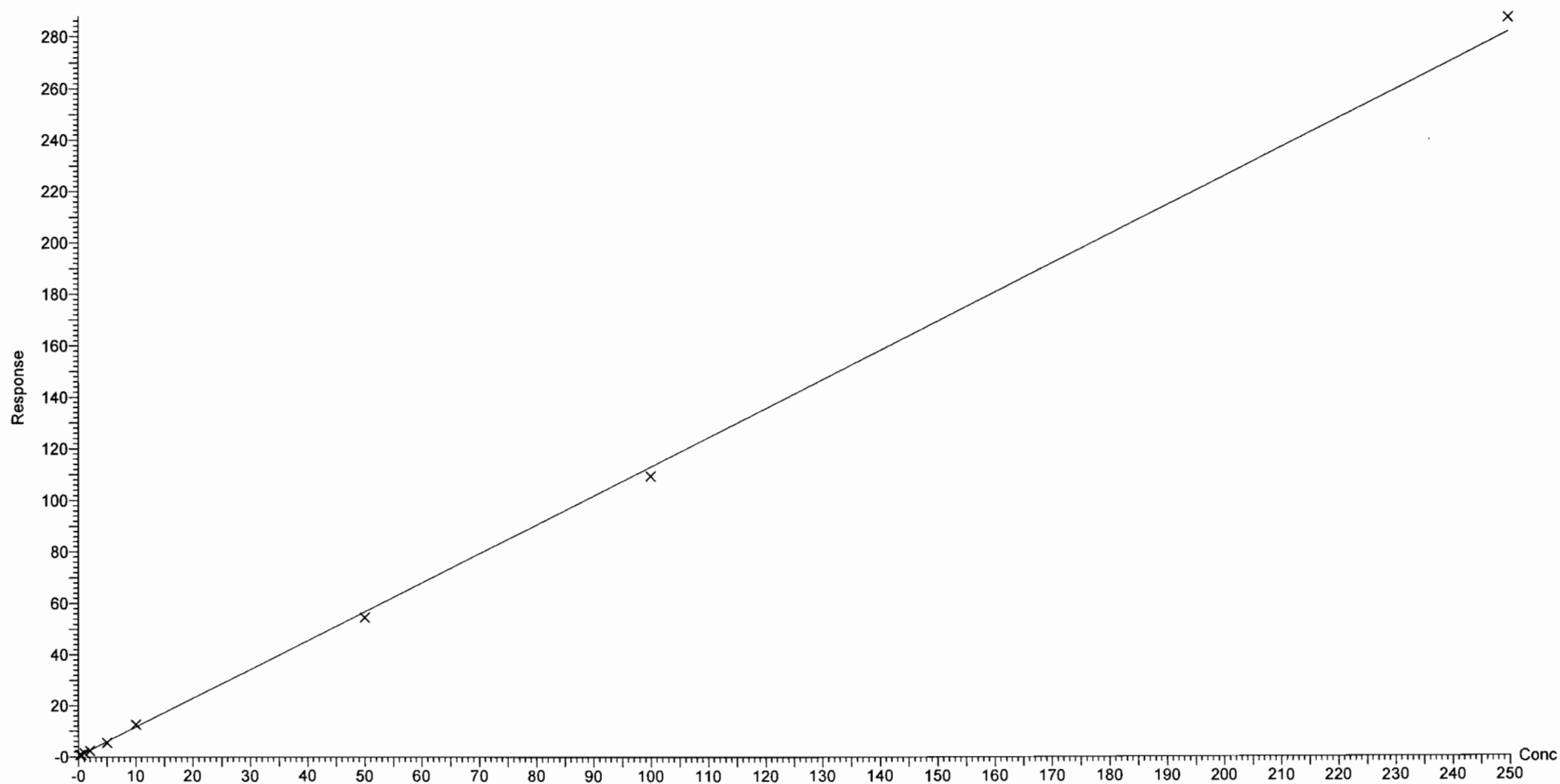
Compound name: L-PFOA

Correlation coefficient:  $r = 0.999419$ ,  $r^2 = 0.998838$

Calibration curve:  $1.12797 * x + 0.284504$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

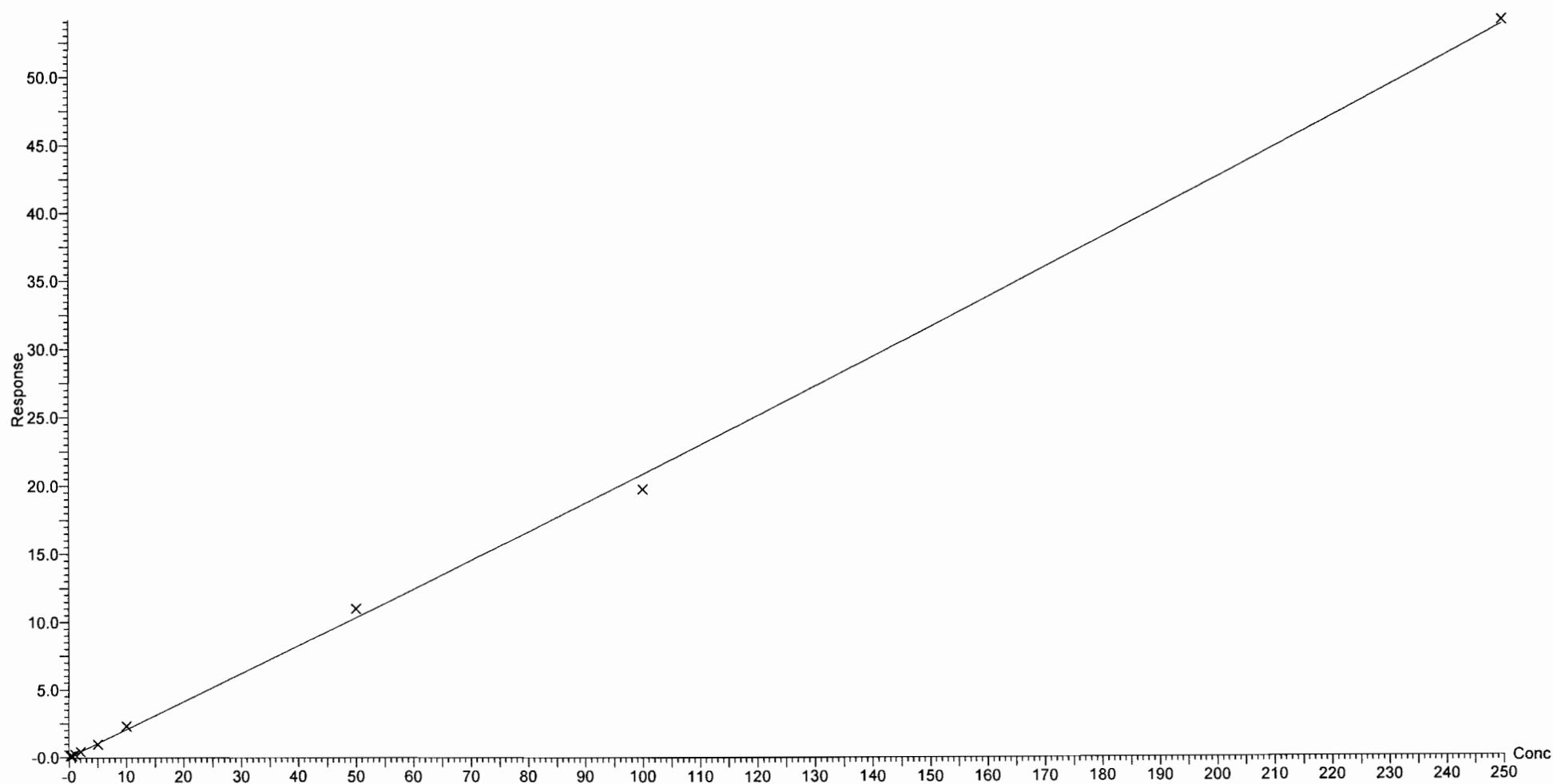
Compound name: PFHpS

Coefficient of Determination:  $R^2 = 0.998365$

Calibration curve:  $4.65786e-005 * x^2 + 0.203609 * x + 0.0252184$

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

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



Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

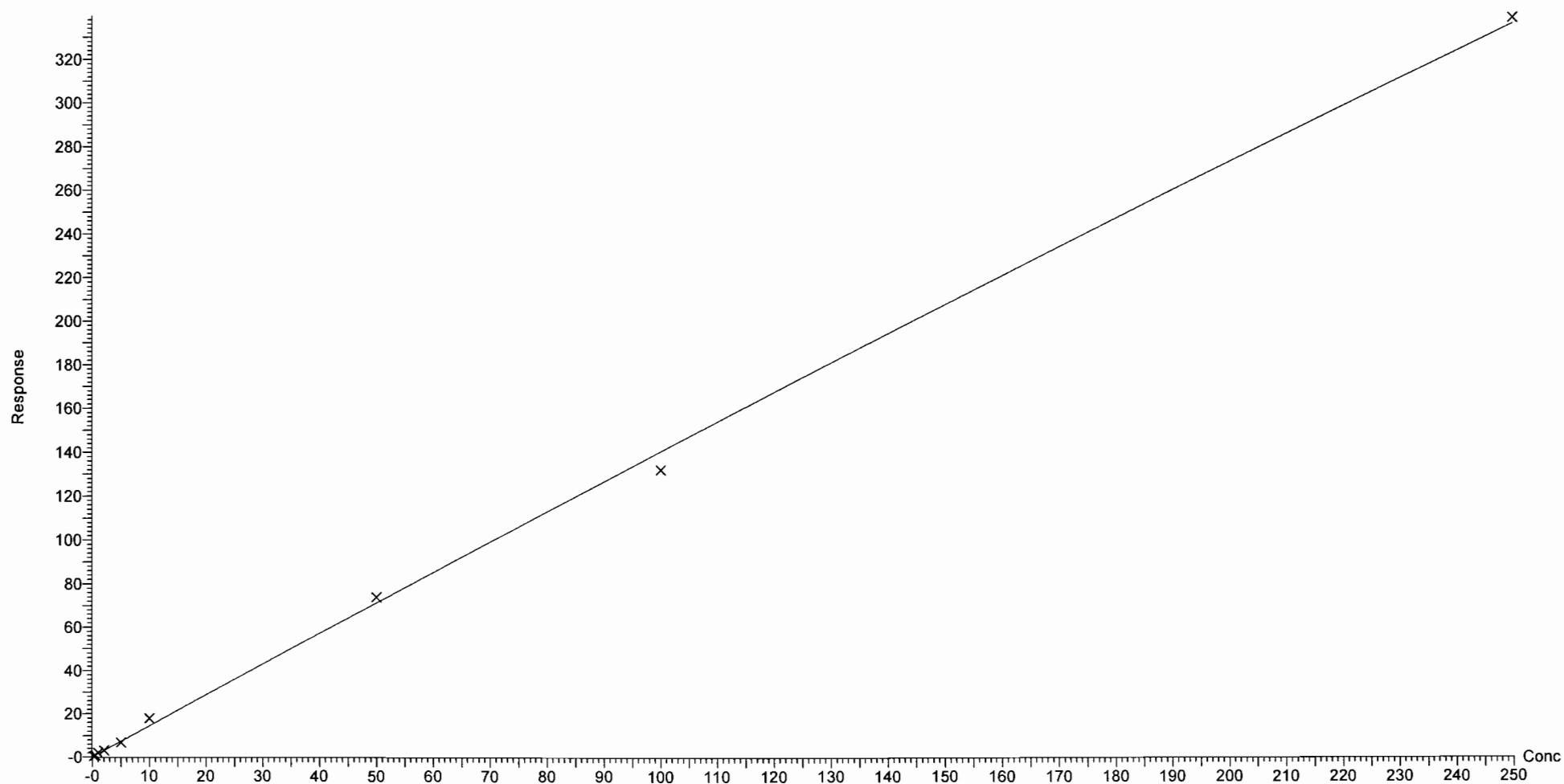
Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

Compound name: PFNA

Coefficient of Determination:  $R^2 = 0.997109$ Calibration curve:  $-0.000379675 * x^2 + 1.44302 * x + 0.0895267$ 

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

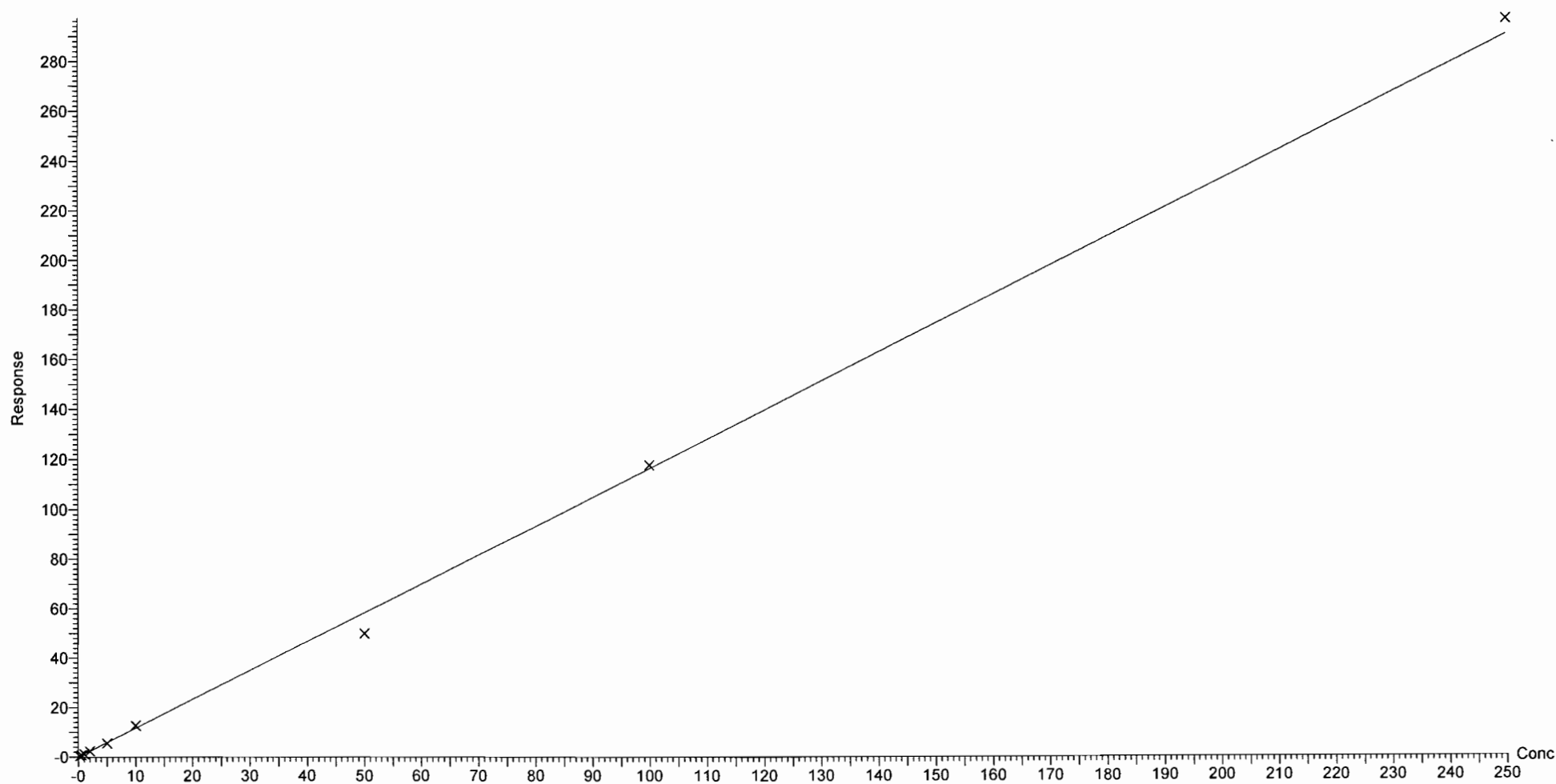
Compound name: PFOSA

Correlation coefficient:  $r = 0.998461$ ,  $r^2 = 0.996924$

Calibration curve:  $1.16388 * x + 0.0273367$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

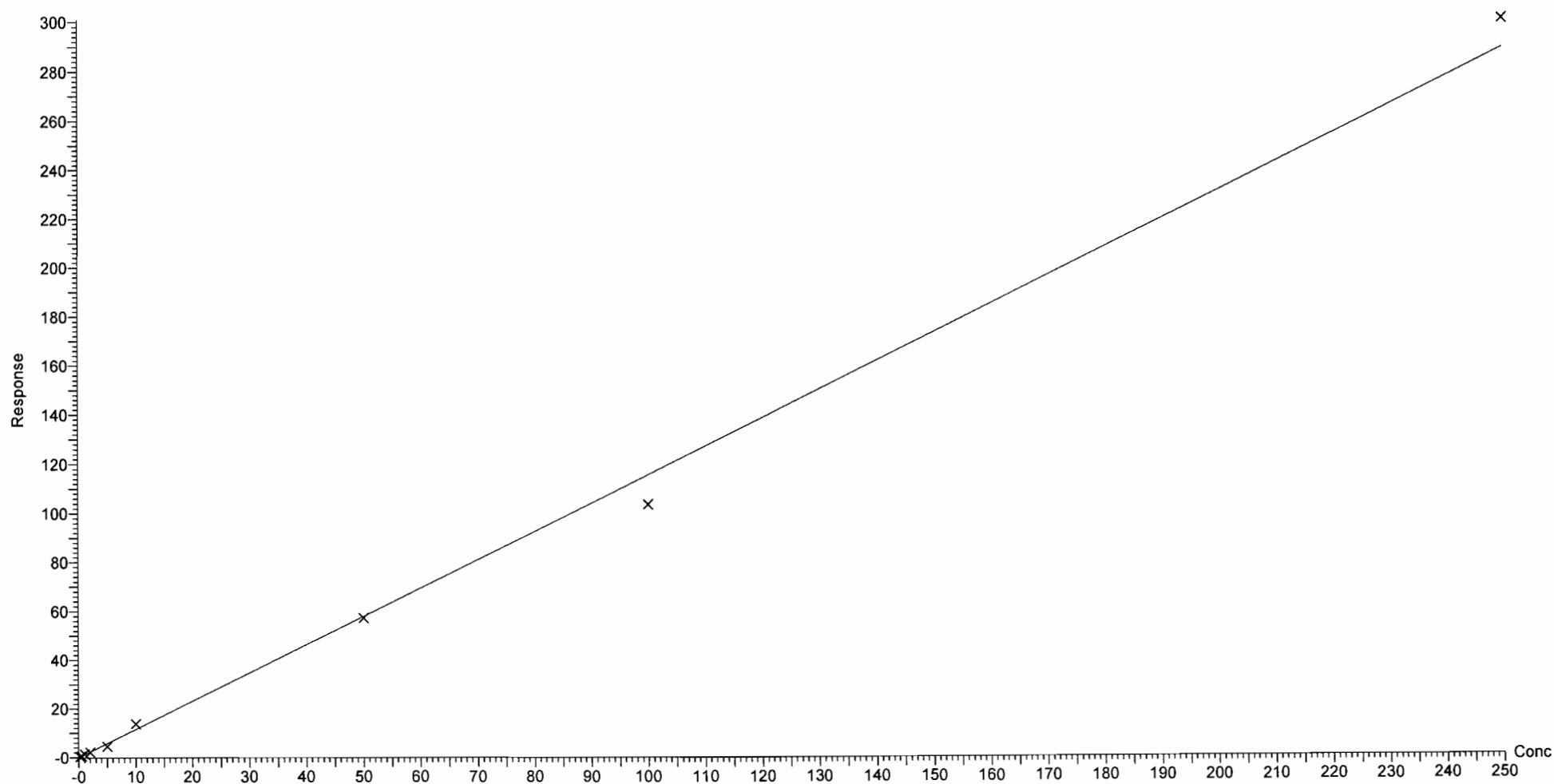
Compound name: L-PFOS

Correlation coefficient:  $r = 0.997357$ ,  $r^2 = 0.994721$

Calibration curve:  $1.1564 * x + -0.0243452$

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

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





Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

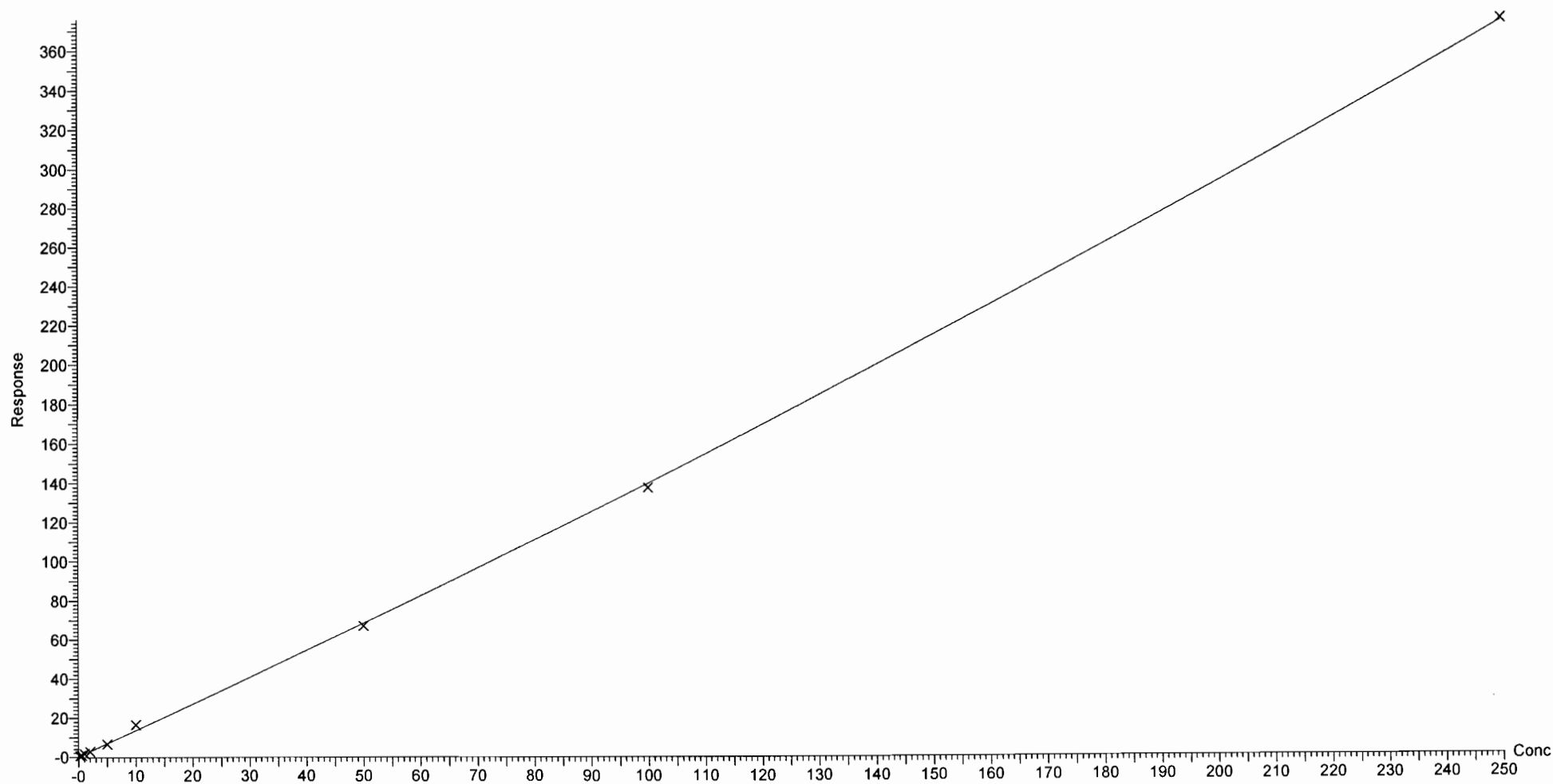
Compound name: PFDA

Coefficient of Determination:  $R^2 = 0.998744$

Calibration curve:  $0.000670409 * x^2 + 1.3303 * x + 0.180081$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

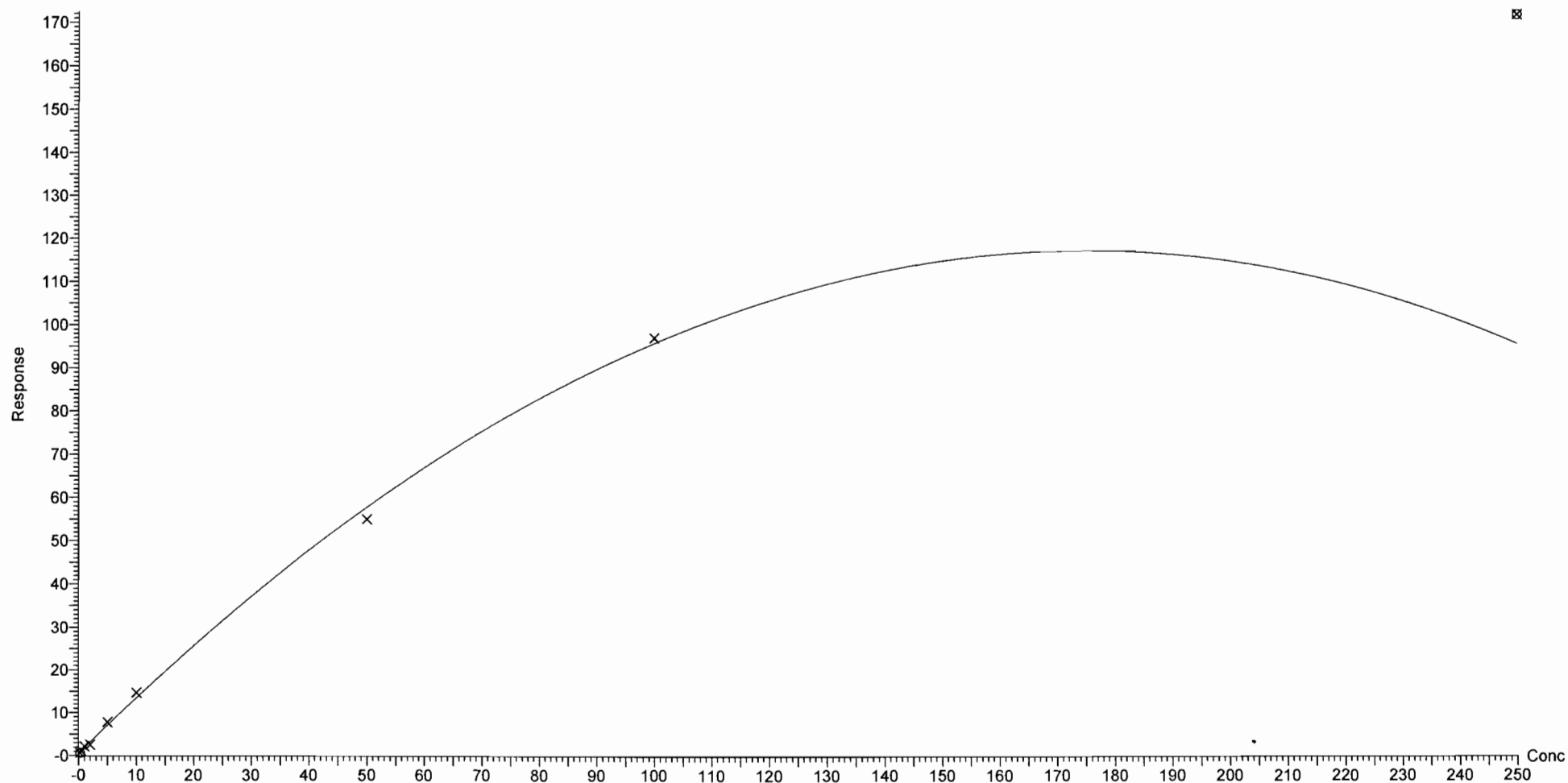
Compound name: 8:2 FTS

Coefficient of Determination:  $R^2 = 0.995715$

Calibration curve:  $-0.00382414 * x^2 + 1.3379 * x + 0.459132$

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

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



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

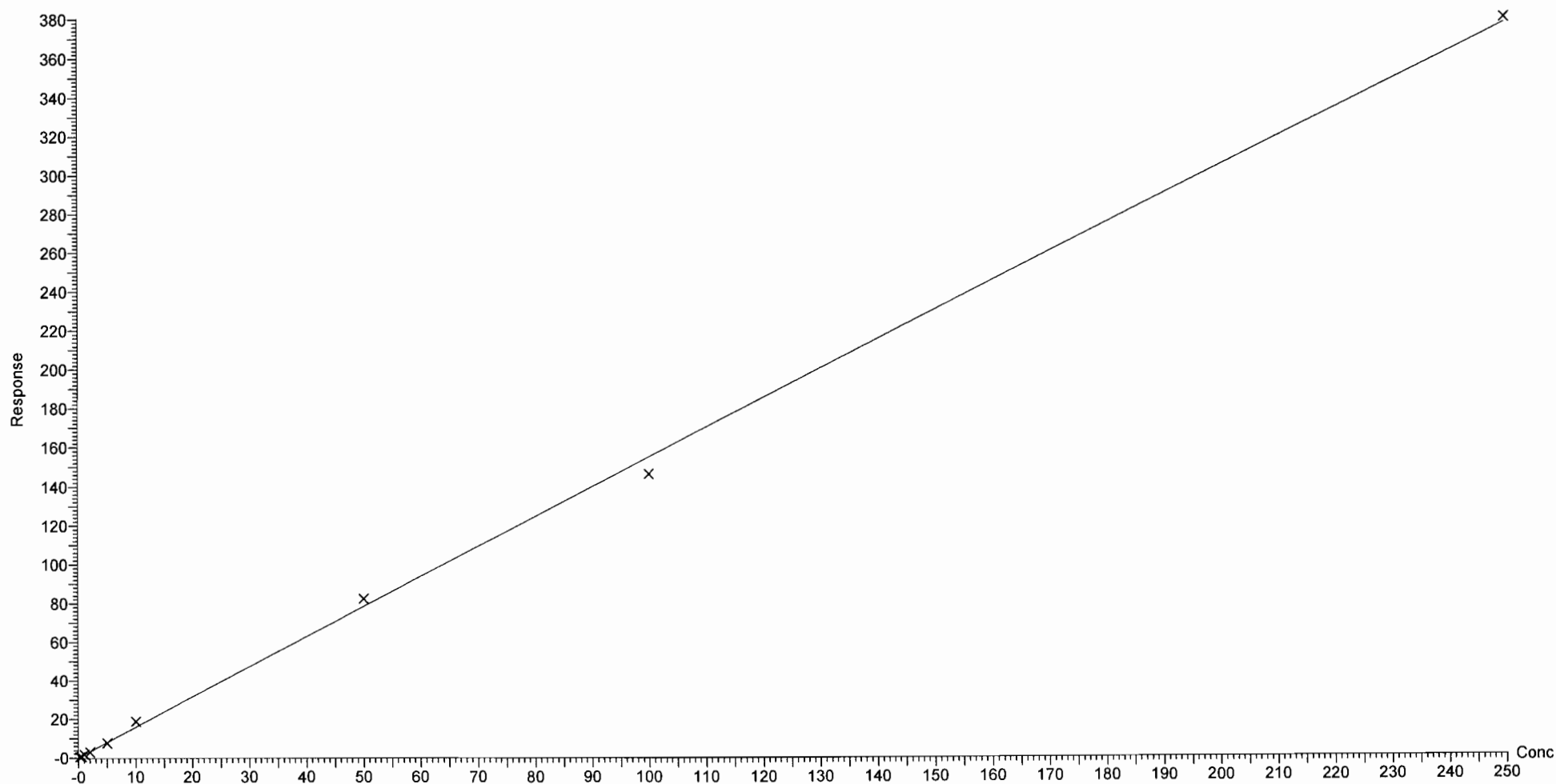
Compound name: N-MeFOSAA

Coefficient of Determination:  $R^2 = 0.997869$

Calibration curve:  $-0.000267179 * x^2 + 1.57739 * x + 0.0787904$

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\171026M1\171026M1-CRV.qld

Last Altered:   Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed:        Friday, October 27, 2017 10:38:18 Pacific Daylight Time

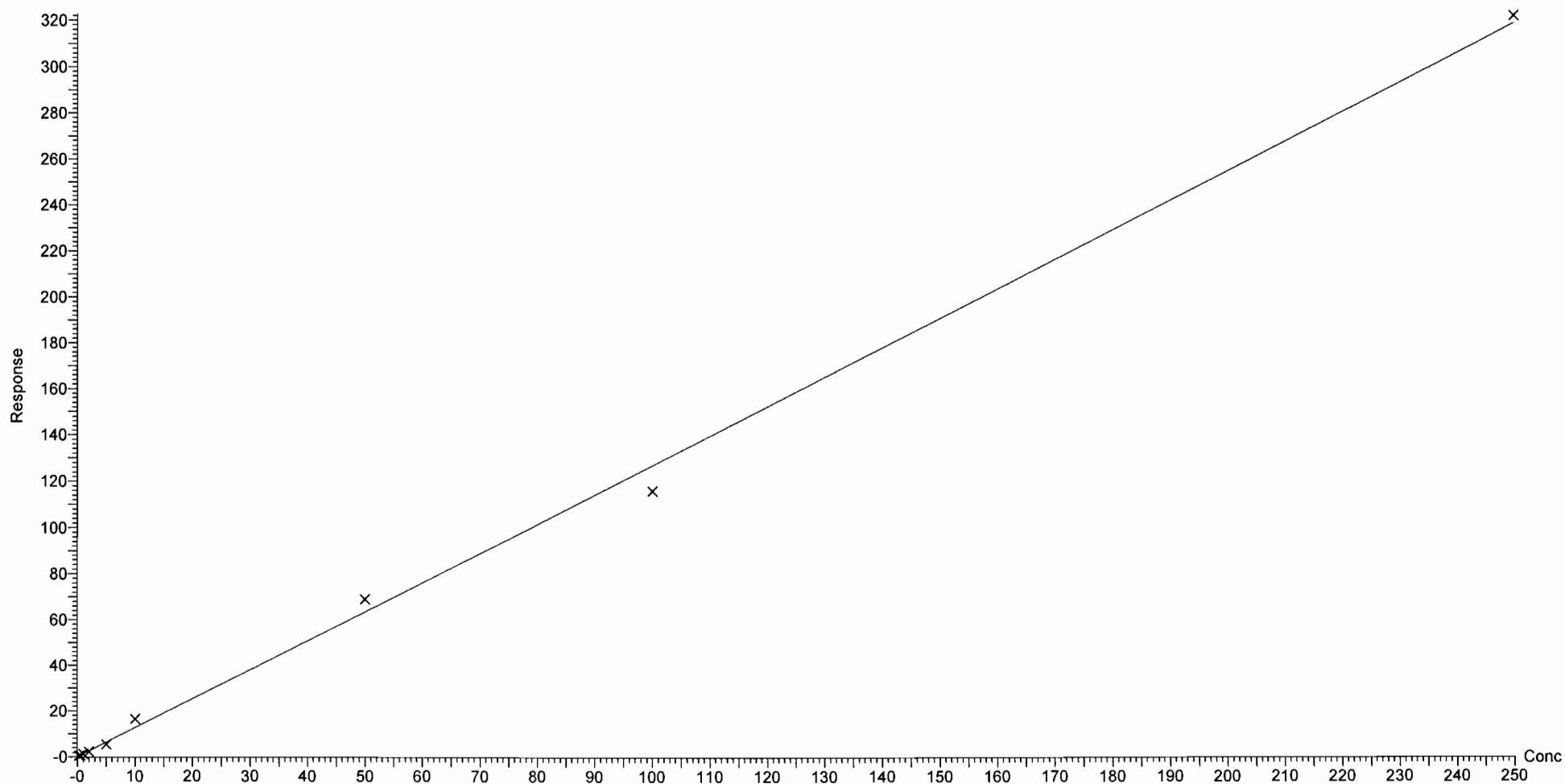
Compound name: N-EtFOSAA

Coefficient of Determination:  $R^2 = 0.994831$

Calibration curve:  $5.282e-005 * x^2 + 1.26472 * x + 0.0301259$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

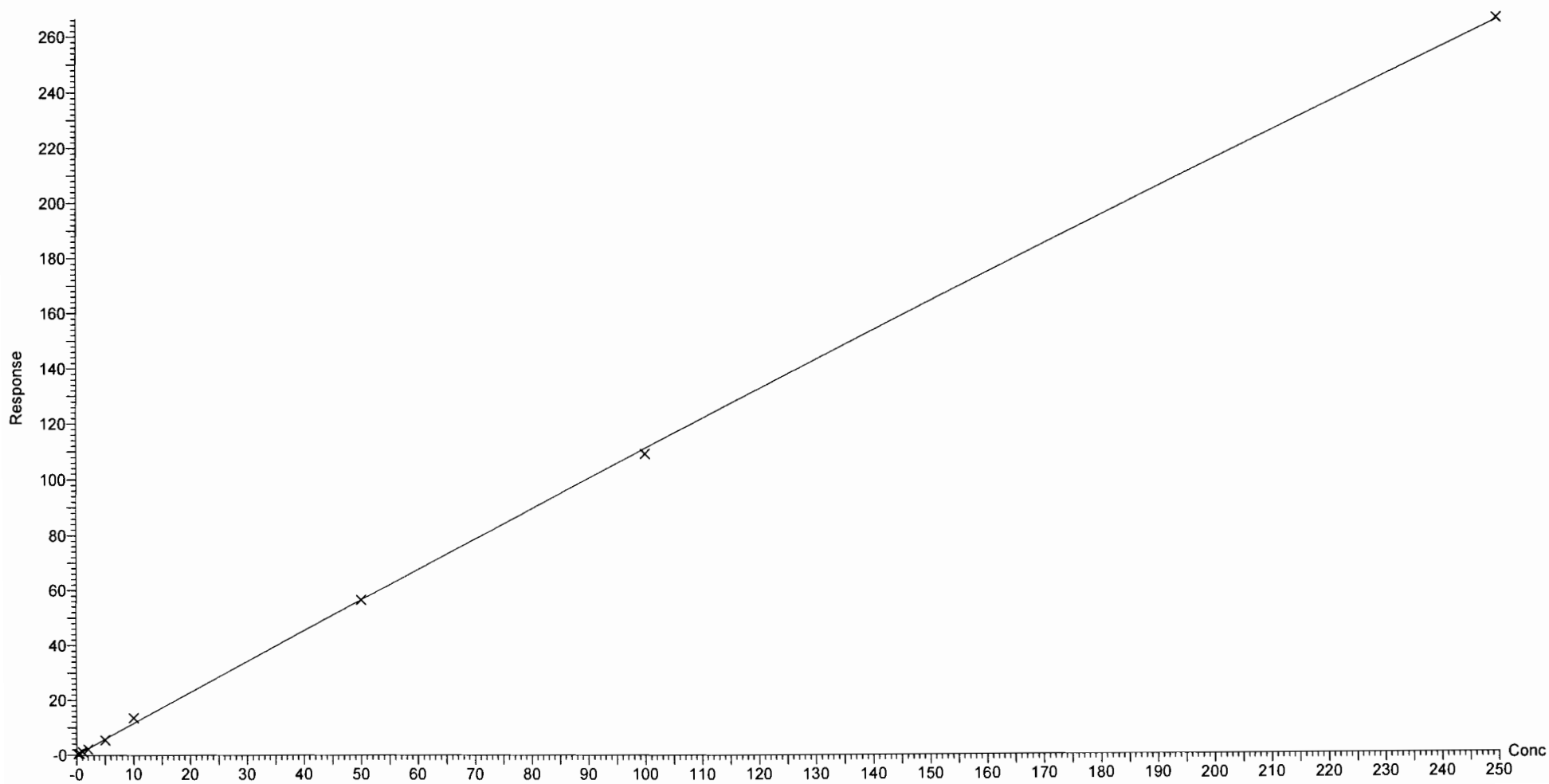
Compound name: PFUnA

Coefficient of Determination:  $R^2 = 0.998990$

Calibration curve:  $-0.000325839 * x^2 + 1.14375 * x + 0.032356$

Response type: Internal Std ( Ref 46 ), Area \* ( IS Conc. / IS Area )

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



Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

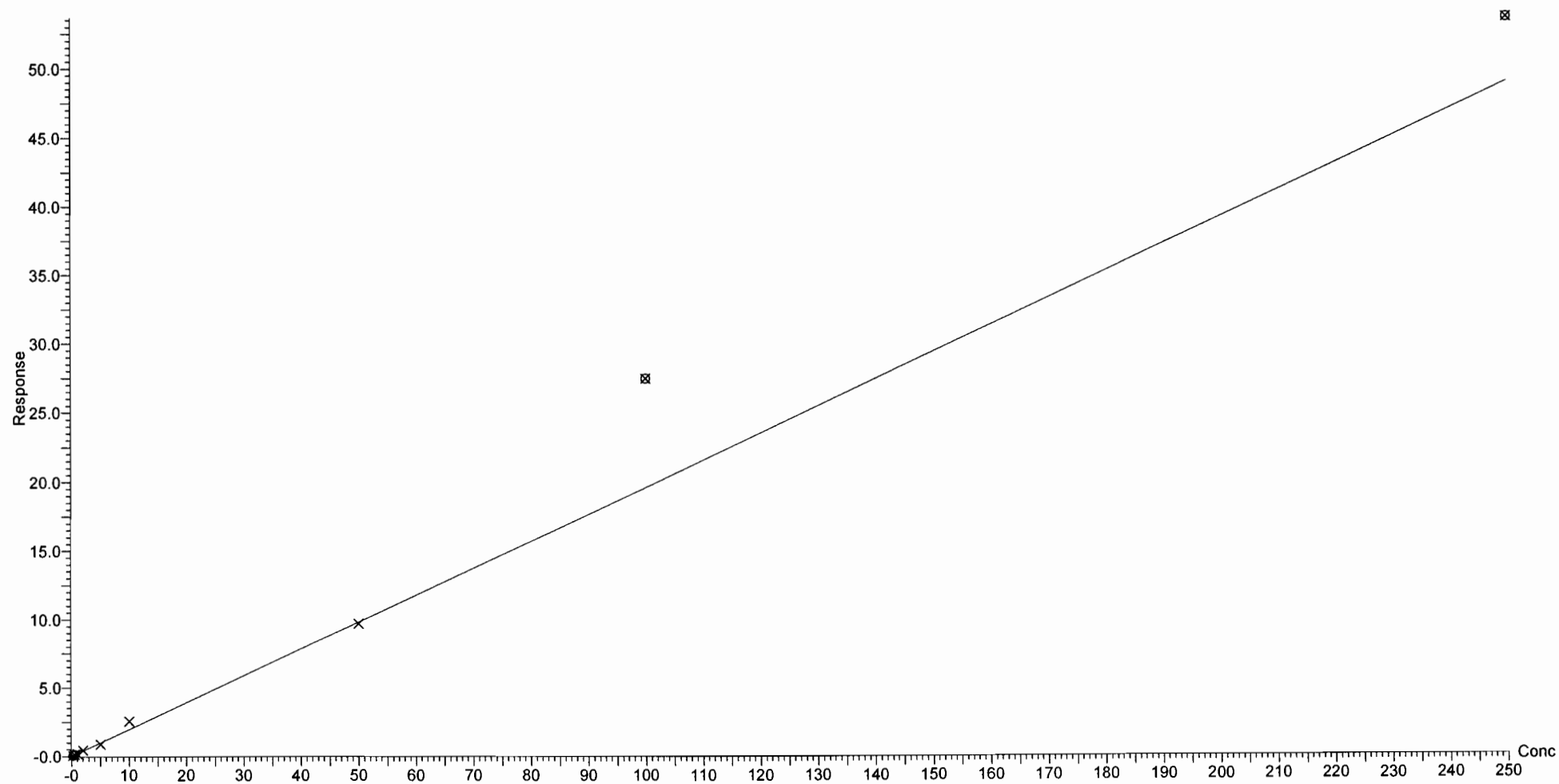
Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

Compound name: PFDS

Coefficient of Determination:  $R^2 = 0.994206$ Calibration curve:  $0.195972 * x$ 

Response type: Internal Std ( Ref 46 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

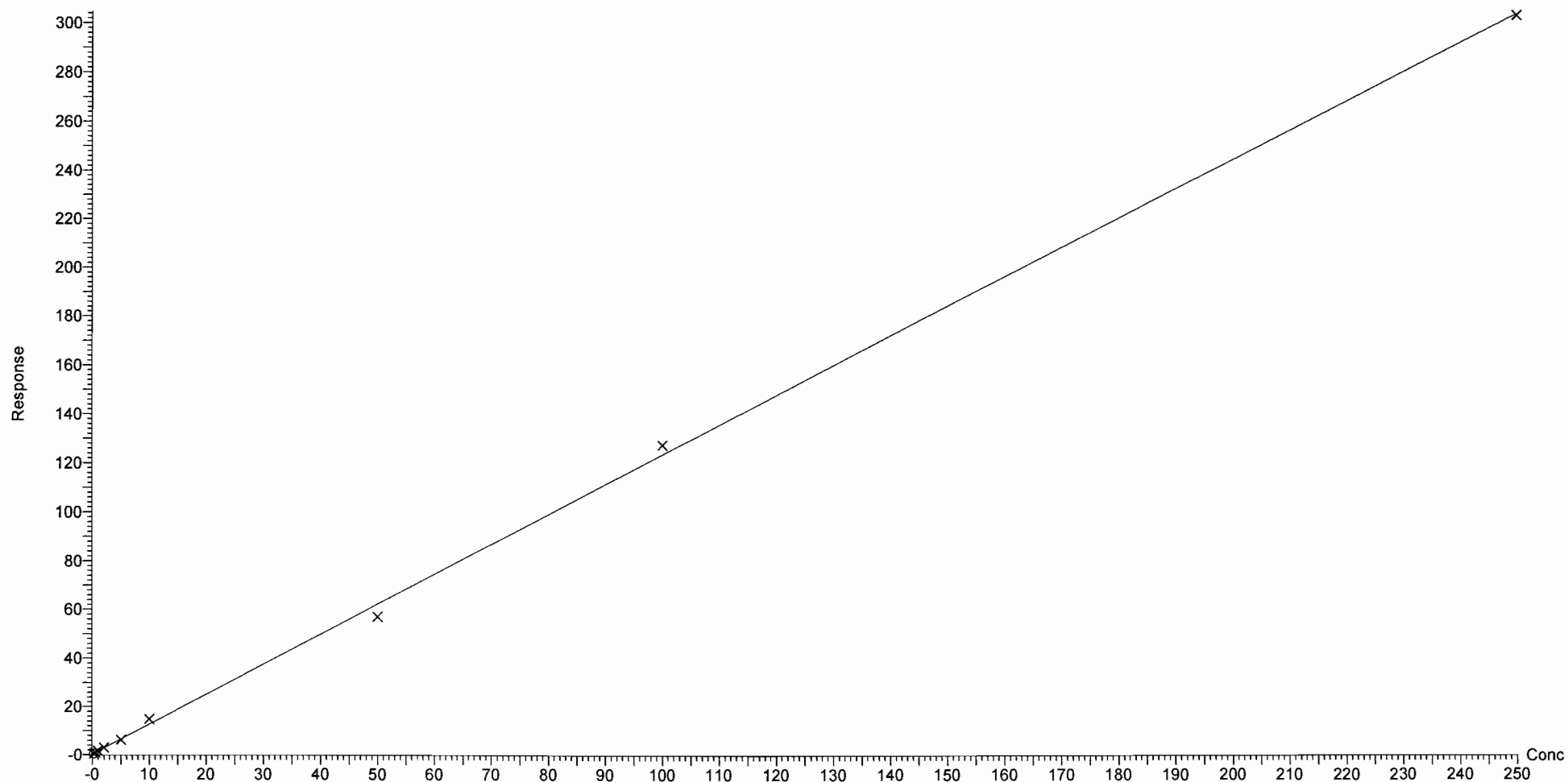
Compound name: PFDoA

Coefficient of Determination:  $R^2 = 0.997953$

Calibration curve:  $-0.000109132 * x^2 + 1.24453 * x + 0.293856$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

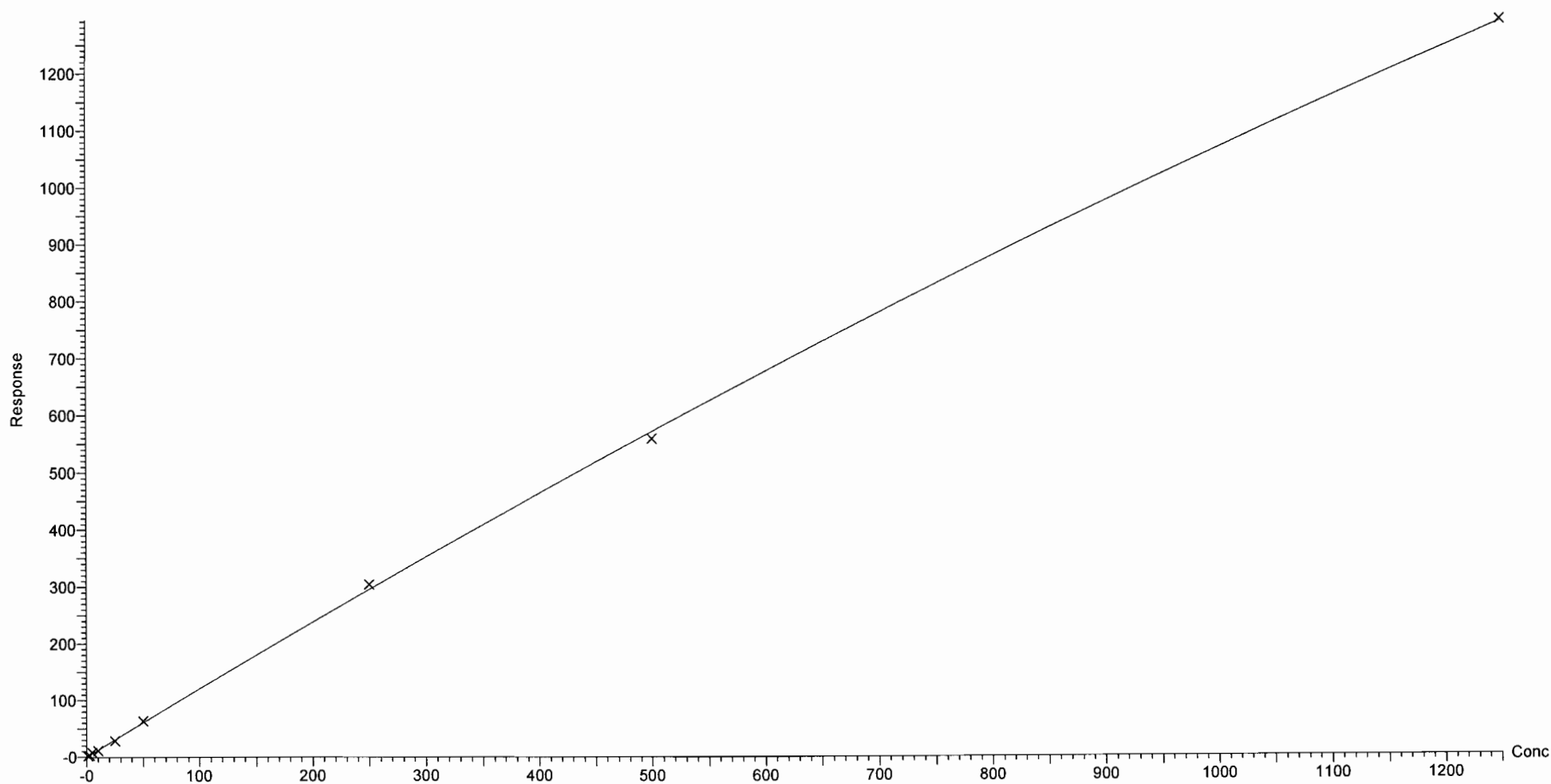
Compound name: N-MeFOSA

Coefficient of Determination:  $R^2 = 0.999297$

Calibration curve:  $-0.000149877 * x^2 + 1.21877 * x + 0.0856513$

Response type: Internal Std ( Ref 48 ), Area \* ( IS Conc. / IS Area )

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





Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

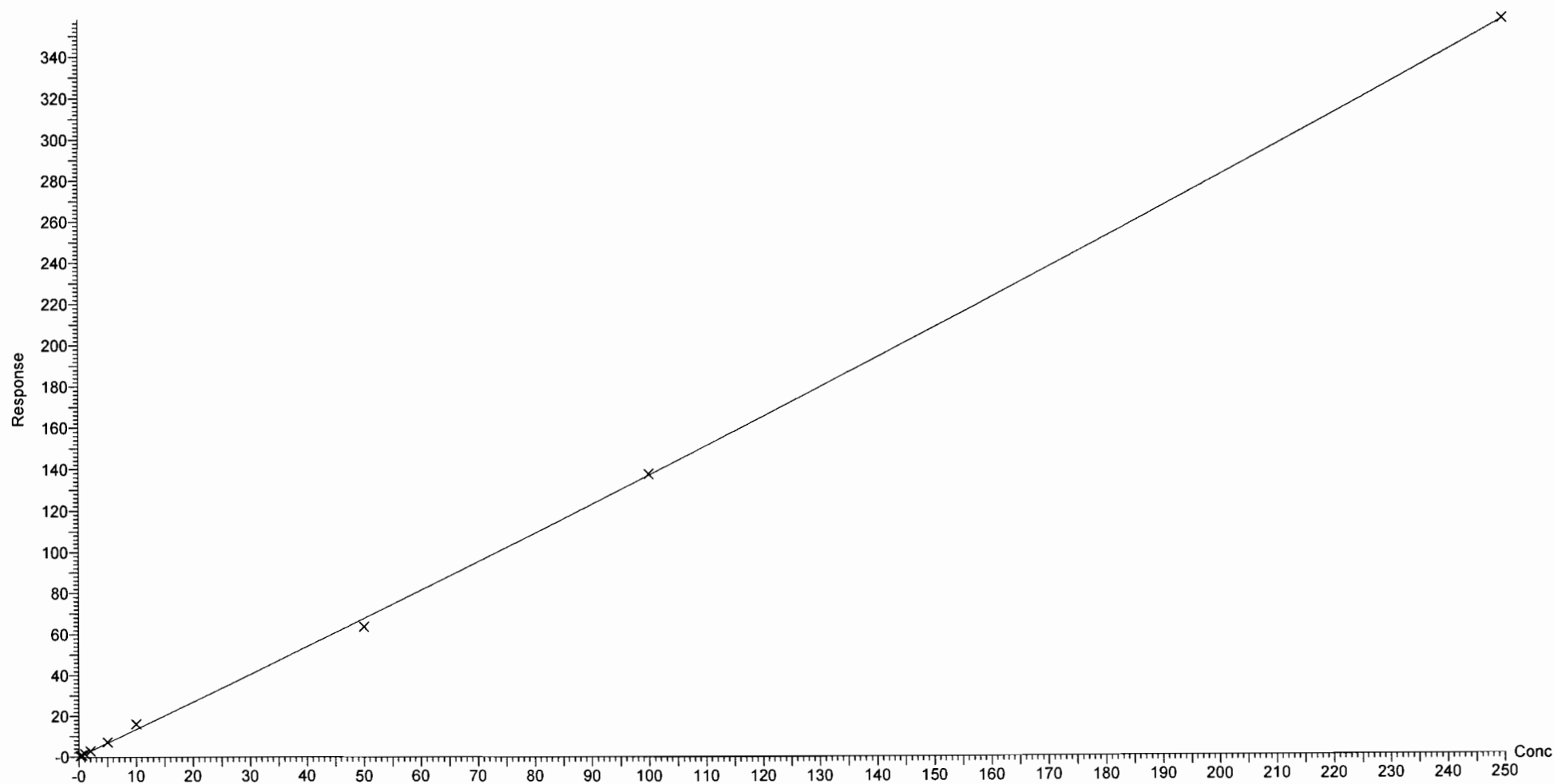
Compound name: PFTrDA

Coefficient of Determination:  $R^2 = 0.998625$

Calibration curve:  $0.000400269 * x^2 + 1.32903 * x + 0.10057$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

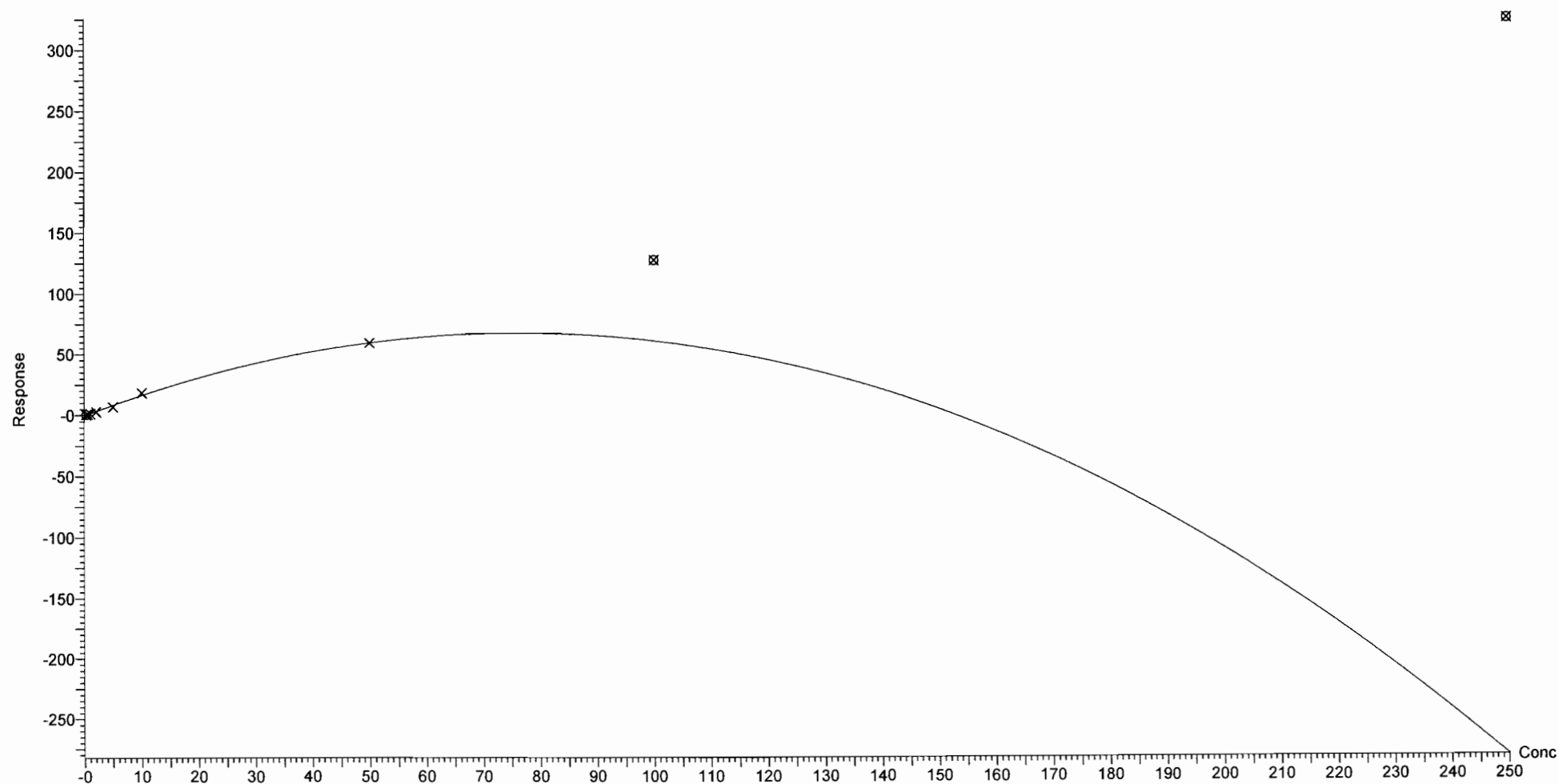
Compound name: PFTeDA

Coefficient of Determination:  $R^2 = 0.990408$

Calibration curve:  $-0.0116096 * x^2 + 1.77597 * x + -0.229836$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

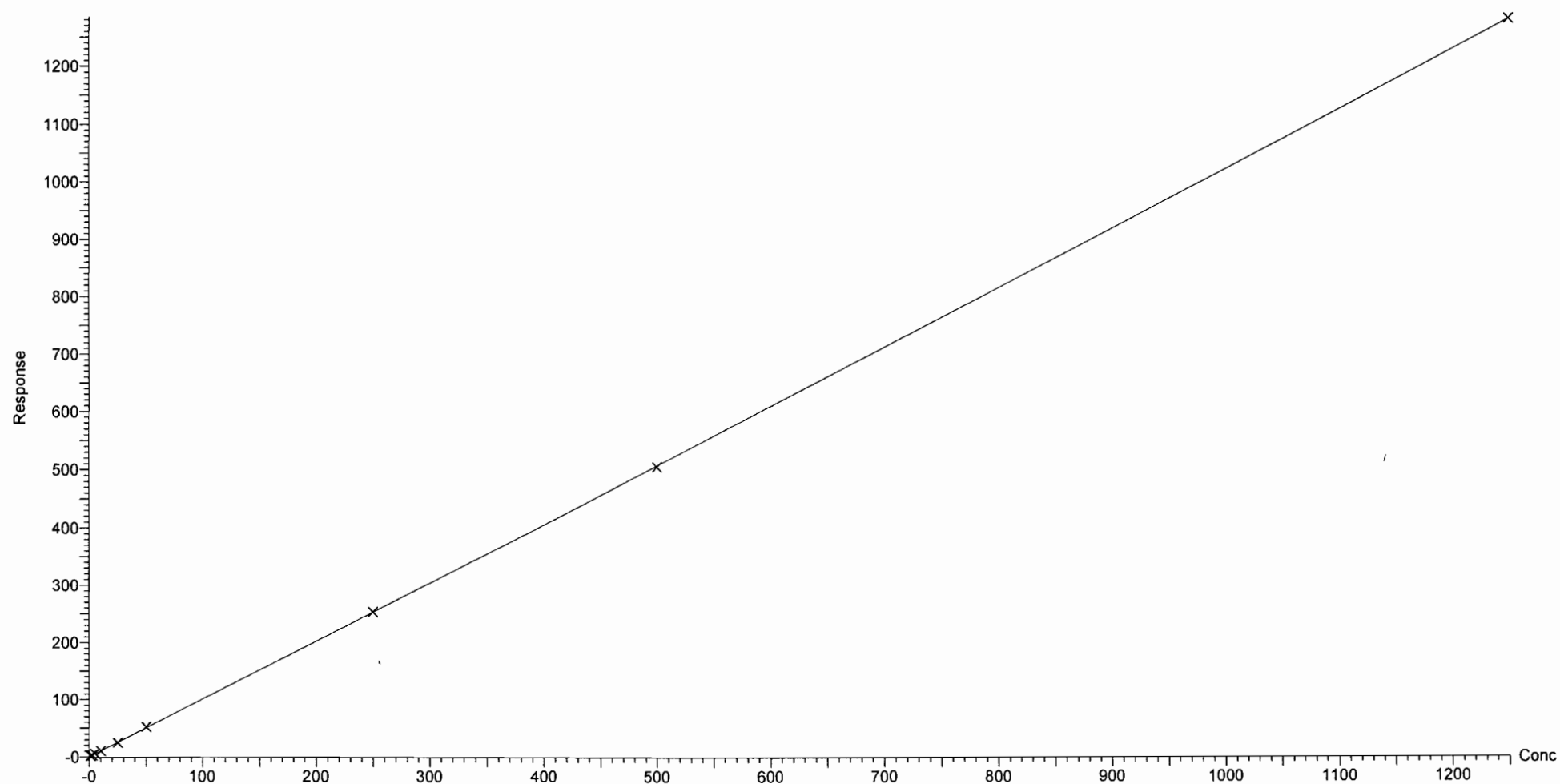
Compound name: N-EtFOSA

Coefficient of Determination:  $R^2 = 0.999879$

Calibration curve:  $1.51717e-005 * x^2 + 1.00753 * x + 0.283778$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

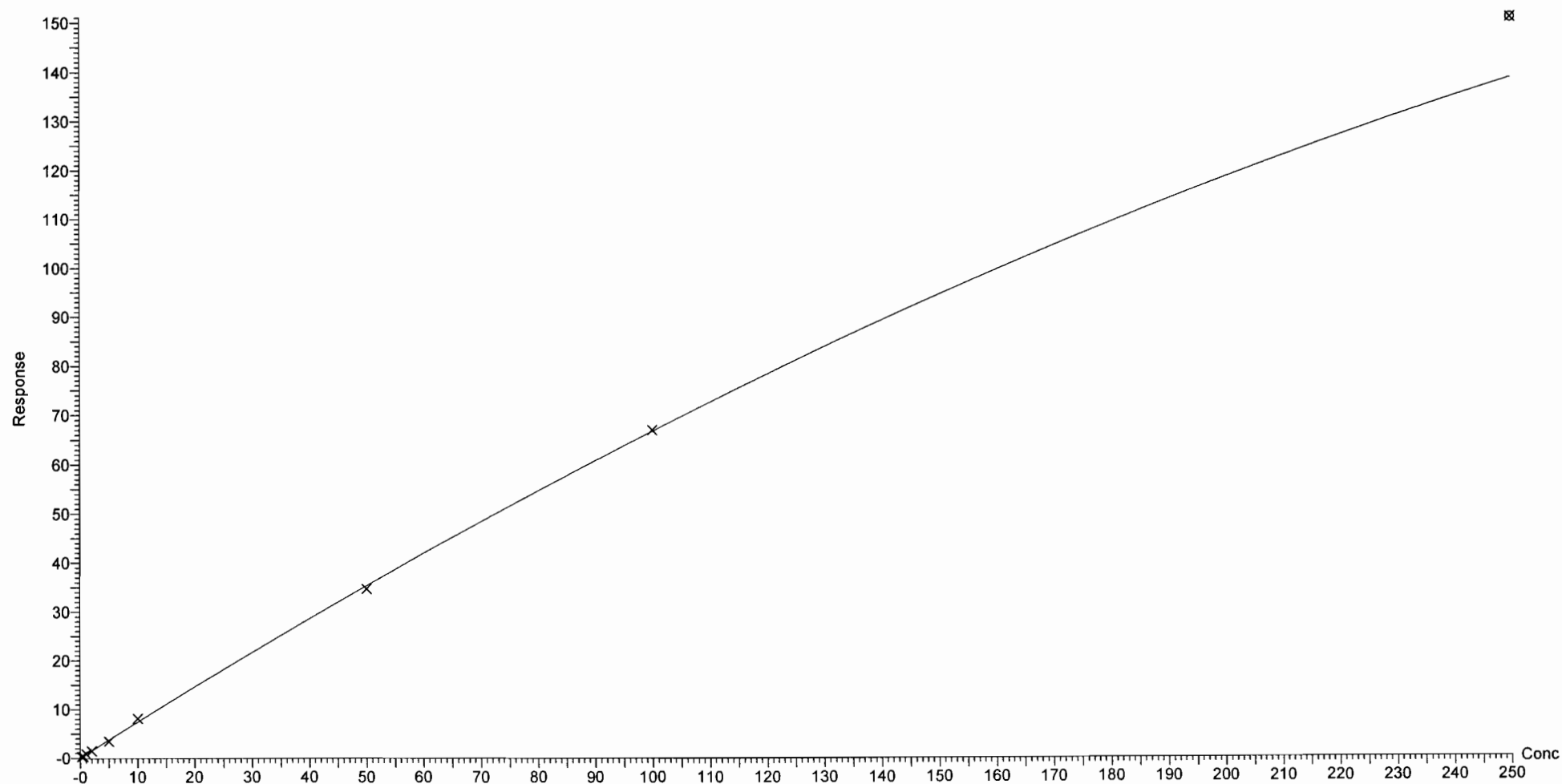
Compound name: PFHxDA

Coefficient of Determination:  $R^2 = 0.998601$

Calibration curve:  $-0.000754699 * x^2 + 0.743417 * x + 0.0395372$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

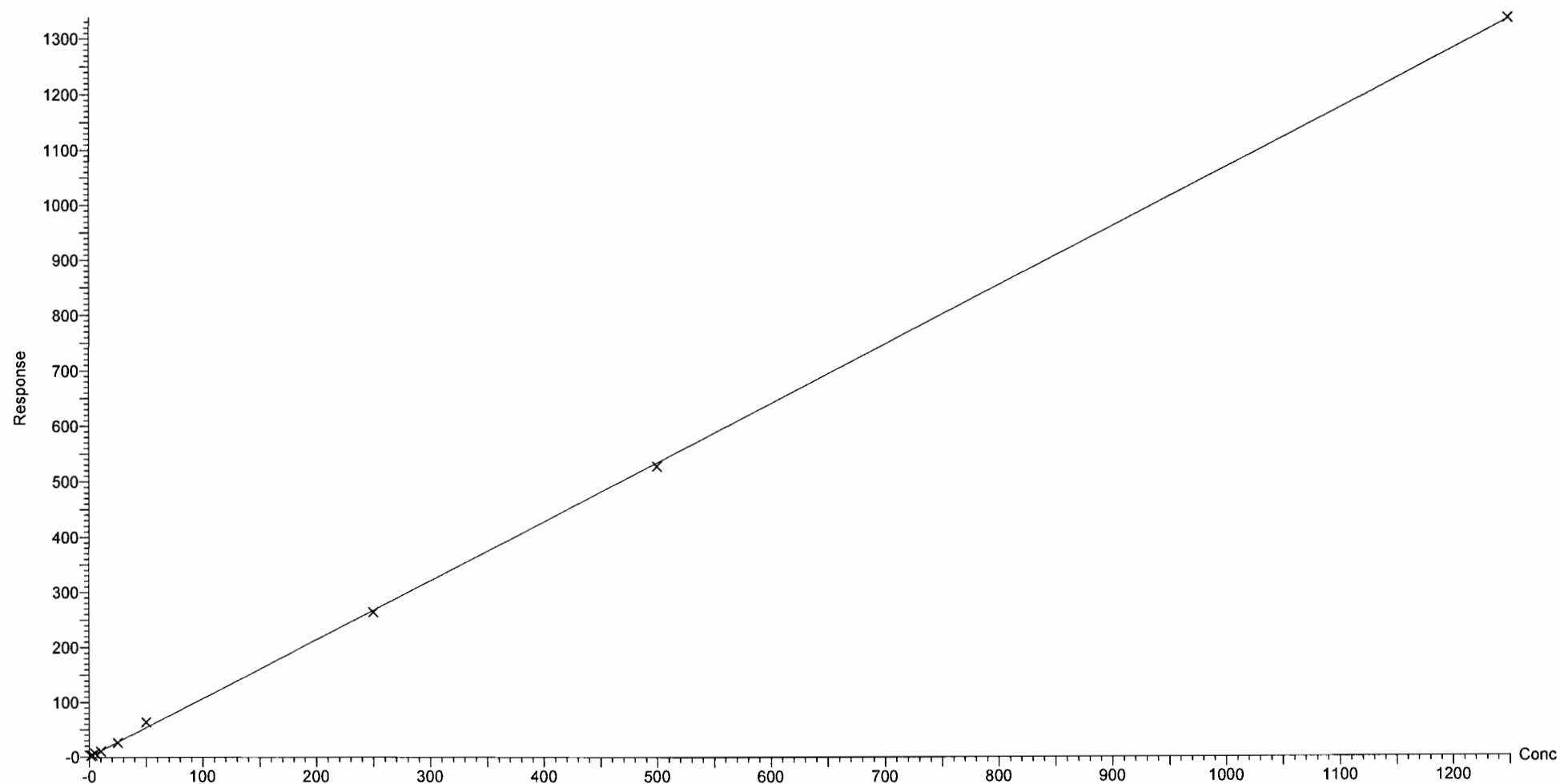
Compound name: N-MeFOSE

Correlation coefficient:  $r = 0.999413$ ,  $r^2 = 0.998826$

Calibration curve:  $1.06845 * x + 0.279364$

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\171026M1\171026M1-CRV.qld

Last Altered: Friday, October 27, 2017 10:26:14 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:38:18 Pacific Daylight Time

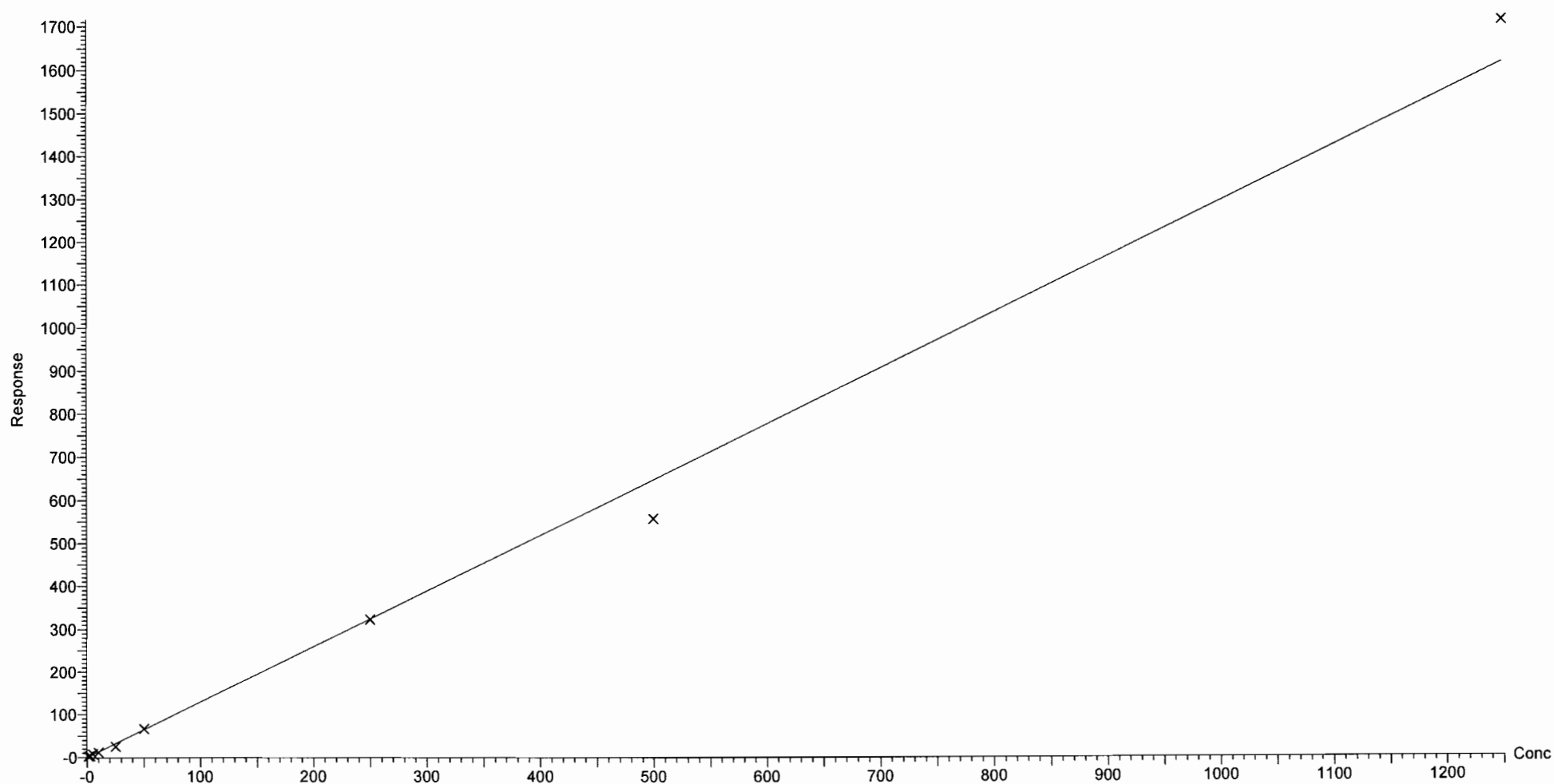
Compound name: N-EtFOSE

Correlation coefficient:  $r = 0.996094$ ,  $r^2 = 0.992203$

Calibration curve:  $1.29546 * x + -0.281193$

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\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

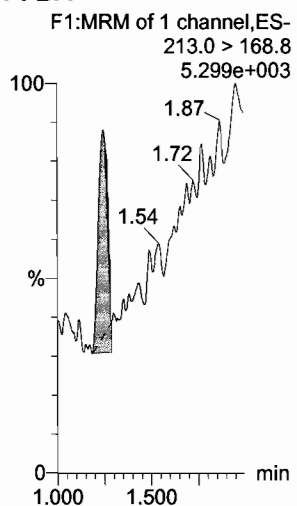
*am 10/27/17*

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 26 Oct 2017 08:20:12

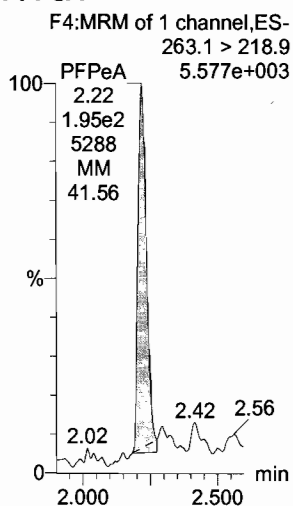
Calibration: 26 Oct 2017 15:43:46

Name: 171026M1\_2, Date: 26-Oct-2017, Time: 09:26:00, ID: ST171026M1-1 PFC CS-2 17J3006, Description: PFC CS-2 17J3006

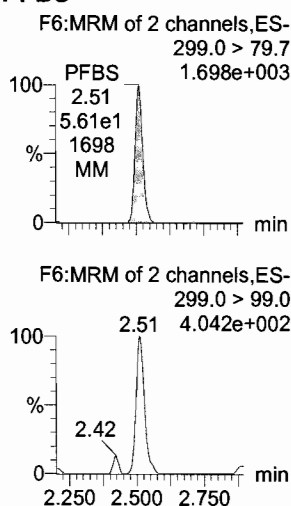
**PFBA**



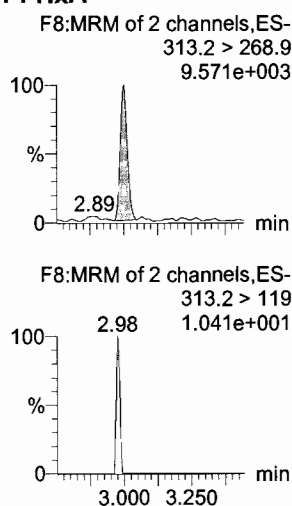
**PFPeA**



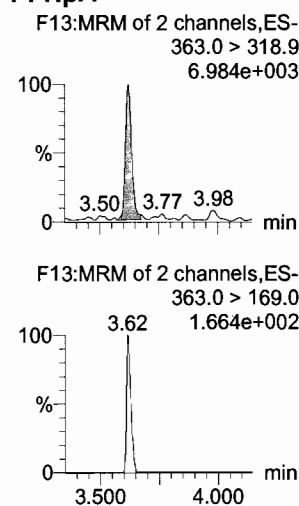
**PFBS**



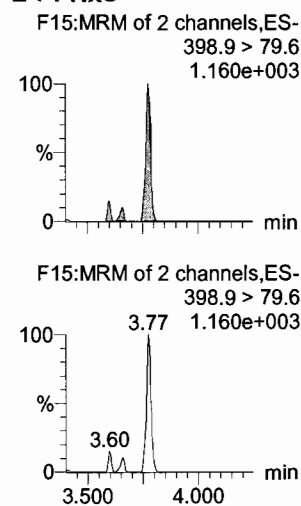
**PFHxA**



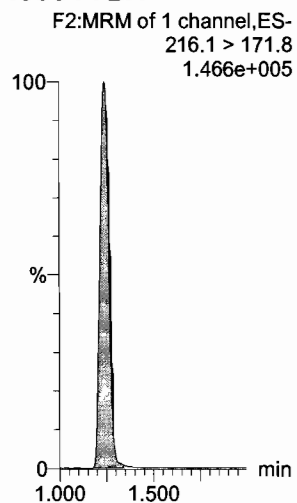
**PFHpA**



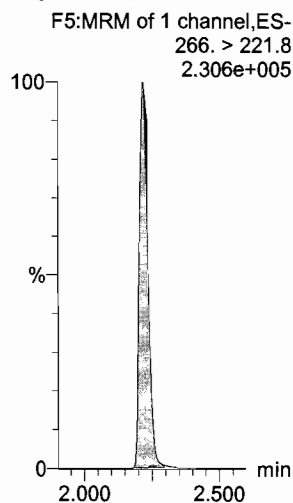
**L-PFHxS**



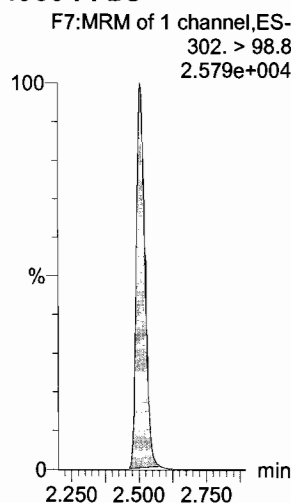
**13C3-PFBA**



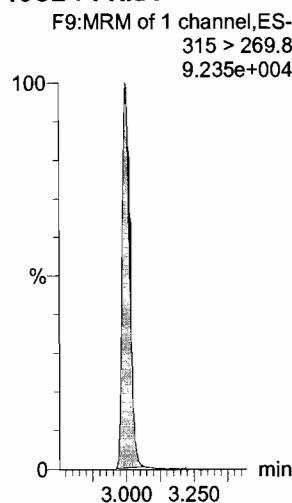
**13C3-PFPeA**



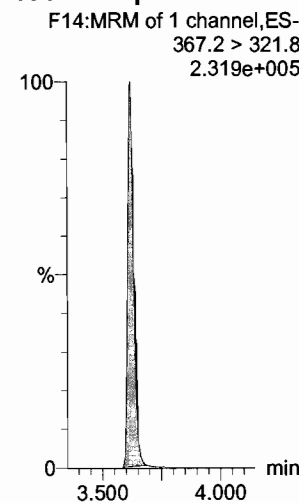
**13C3-PFBS**



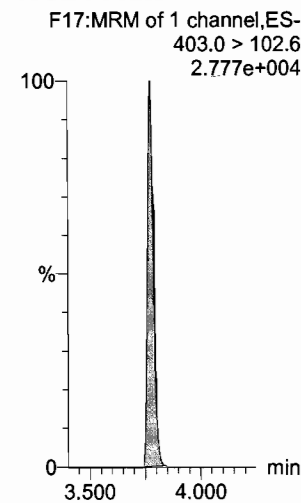
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

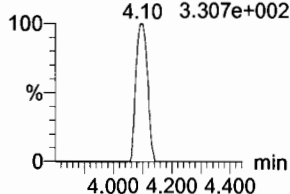
Name: 171026M1\_2, Date: 26-Oct-2017, Time: 09:26:00, ID: ST171026M1-1 PFC CS-2 17J3006, Description: PFC CS-2 17J3006

6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.192e+003

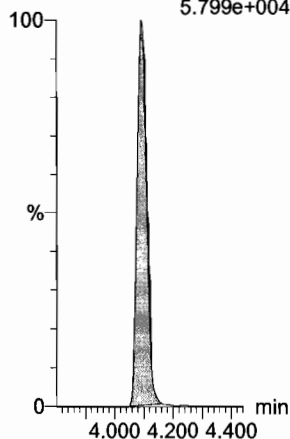


F21:MRM of 2 channels,ES-  
427.1 > 80  
3.307e+002



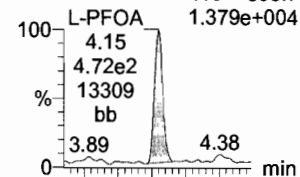
13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
5.799e+004

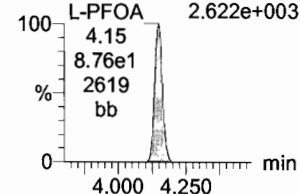


L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
1.379e+004

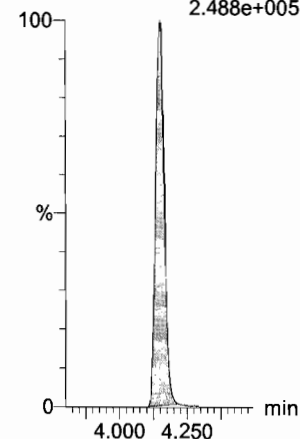


F18:MRM of 2 channels,ES-  
413 > 169  
2.622e+003



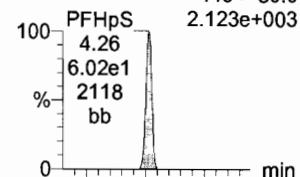
13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.488e+005

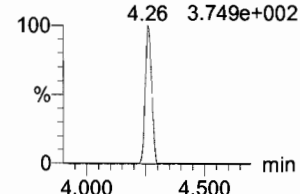


PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
2.123e+003

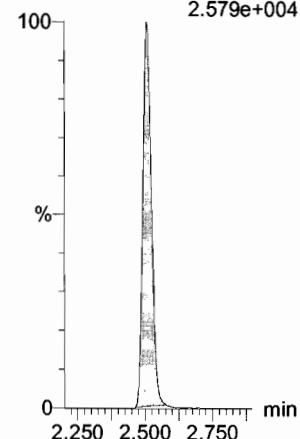


F23:MRM of 2 channels,ES-  
449 > 98.7  
3.749e+002



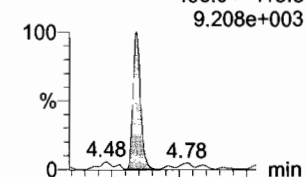
13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.579e+004

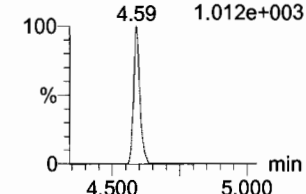


PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
9.208e+003

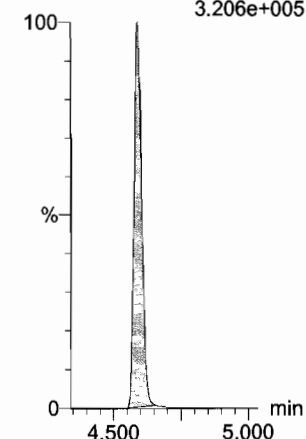


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.012e+003



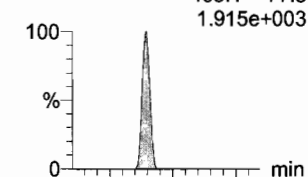
13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.206e+005

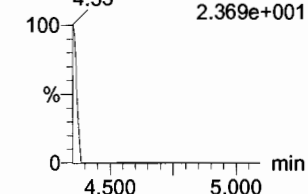


PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.915e+003

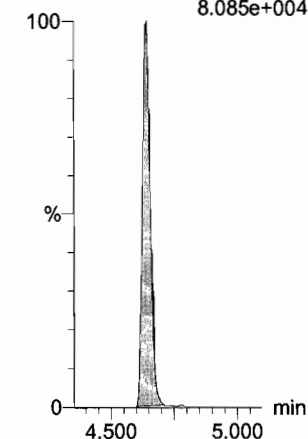


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.369e+001



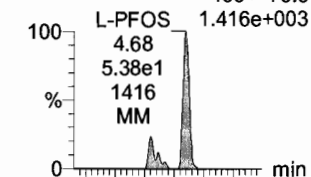
13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
8.085e+004

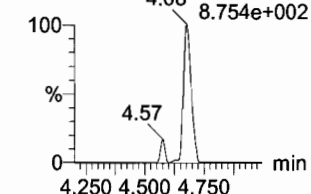


L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
1.416e+003

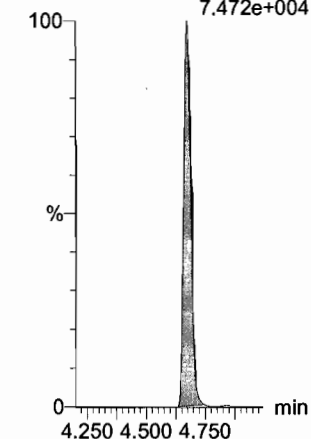


F29:MRM of 2 channels,ES-  
499 > 99  
8.754e+002



13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
7.472e+004





Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

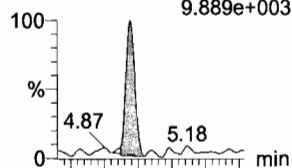
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

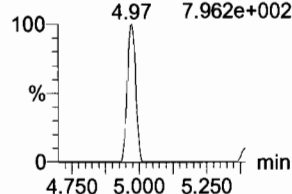
Name: 171026M1\_2, Date: 26-Oct-2017, Time: 09:26:00, ID: ST171026M1-1 PFC CS-2 17J3006, Description: PFC CS-2 17J3006

### PFDA

F34:MRM of 2 channels,ES-  
513 > 468.8  
9.889e+003

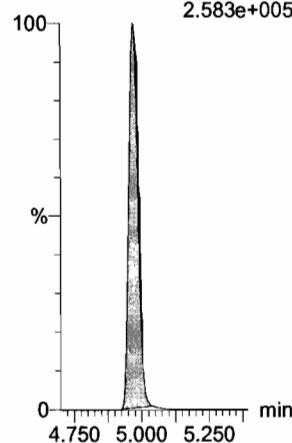


F34:MRM of 2 channels,ES-  
513 > 219  
7.962e+002



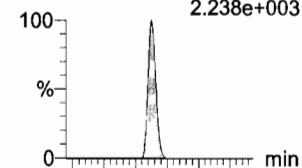
### 13C2-PFDA

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.583e+005

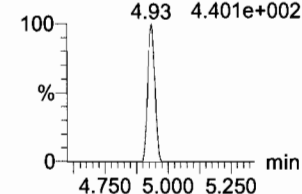


### 8:2 FTS

F39:MRM of 2 channels,ES-  
527 > 506.9  
2.238e+003

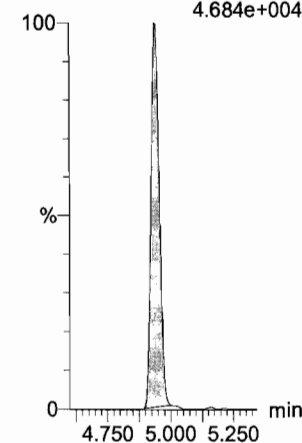


F39:MRM of 2 channels,ES-  
527 > 80  
4.401e+002



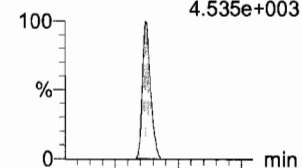
### 13C2-8:2 FTS

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.684e+004

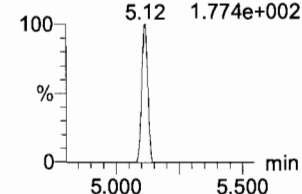


### N-MeFOSAA

F44:MRM of 2 channels,ES-  
570.1 > 419  
4.535e+003

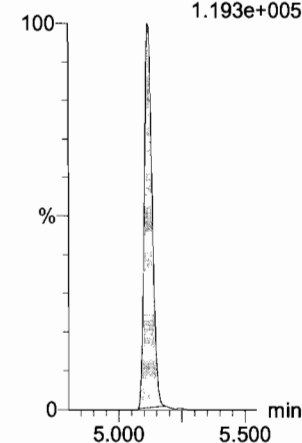


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.774e+002



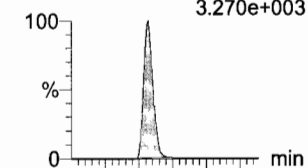
### d3-N-MeFOSAA

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.193e+005

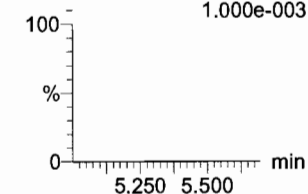


### N-EtFOSAA

F47:MRM of 2 channels,ES-  
584.2 > 419  
3.270e+003

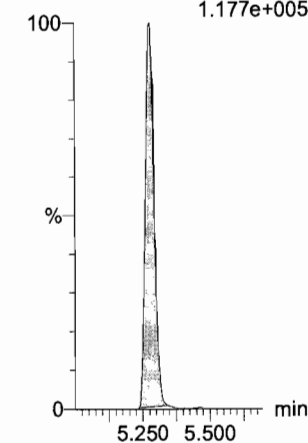


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.000e-003



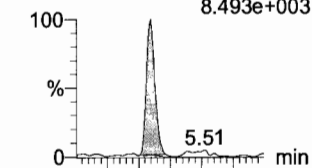
### d5-N-EtFOSAA

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.177e+005

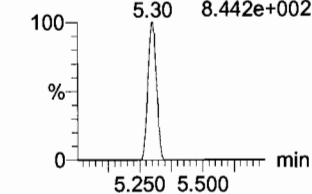


### PFUnA

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
8.493e+003

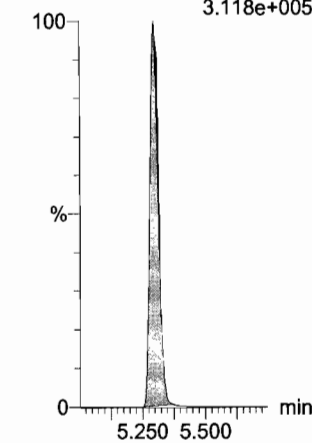


F42:MRM of 2 channels,ES-  
563.0 > 269  
8.442e+002



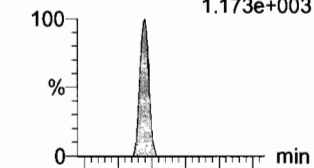
### 13C2-PFUnA

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.118e+005

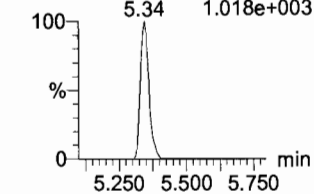


### PFDS

F49:MRM of 2 channels,ES-  
598.8 > 80  
1.173e+003

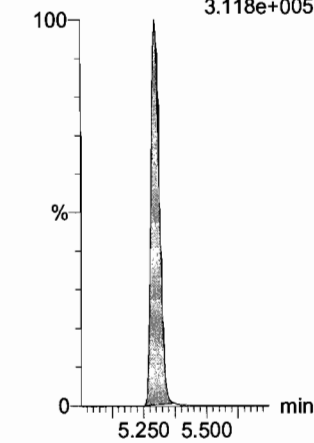


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
1.018e+003



### 13C2-PFUnA

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.118e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

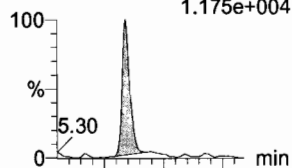
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

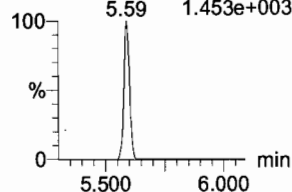
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**PFD<sub>2</sub>O<sub>2</sub>A**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
1.175e+004

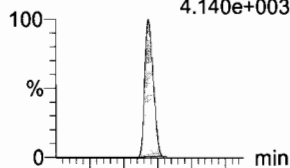


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
1.453e+003

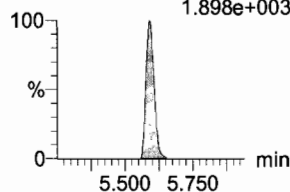


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
4.140e+003

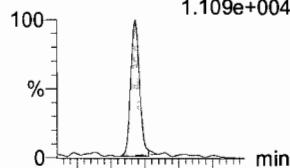


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.898e+003

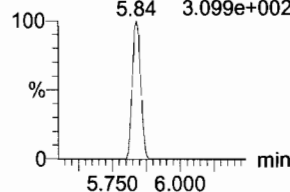


**PFT<sub>2</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
1.109e+004

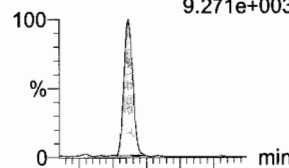


F56:MRM of 2 channels,ES-  
662.9 > 319  
3.099e+002

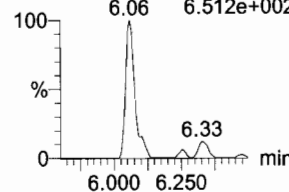


**PFT<sub>2</sub>TeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
9.271e+003

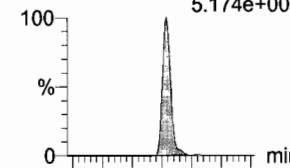


F57:MRM of 2 channels,ES-  
712.9 > 369  
6.512e+002

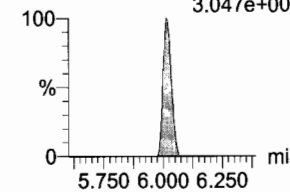


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
5.174e+003

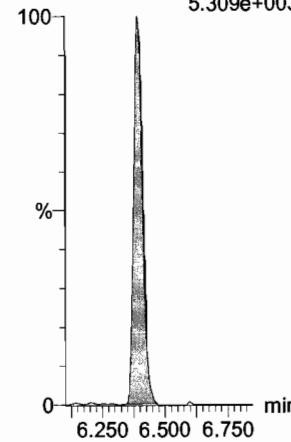


F38:MRM of 2 channels,ES-  
526.1 > 219  
3.047e+003



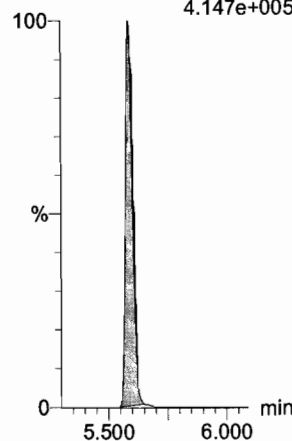
**PFH<sub>2</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
5.309e+003



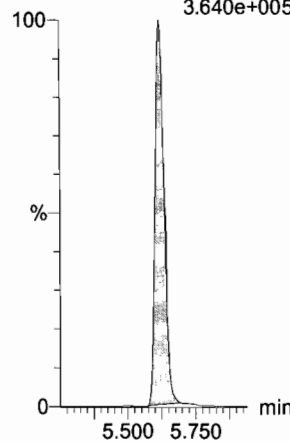
**13C<sub>2</sub>-PFD<sub>2</sub>O<sub>2</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
4.147e+005



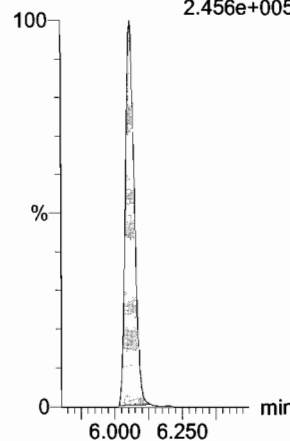
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.640e+005



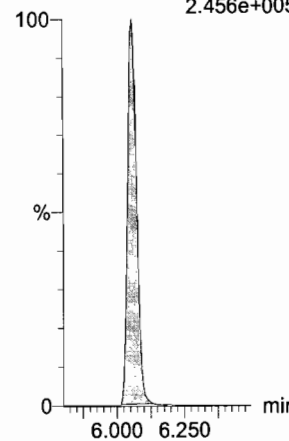
**13C<sub>2</sub>-PFT<sub>2</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.456e+005



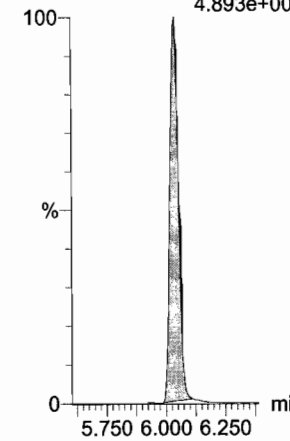
**13C<sub>2</sub>-PFT<sub>2</sub>TeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.456e+005



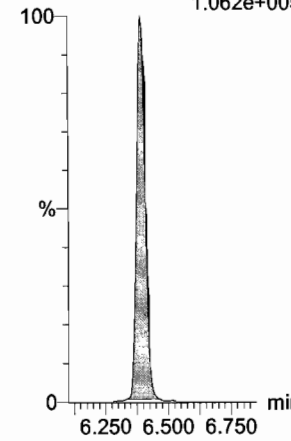
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.893e+005



**13C<sub>2</sub>-PFH<sub>2</sub>DA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.062e+005



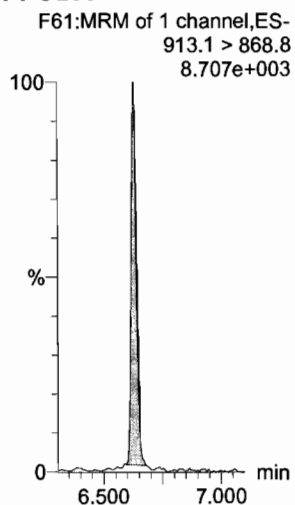
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

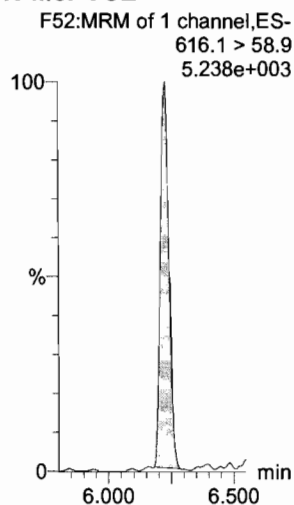
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_2, Date: 26-Oct-2017, Time: 09:26:00, ID: ST171026M1-1 PFC CS-2 17J3006, Description: PFC CS-2 17J3006

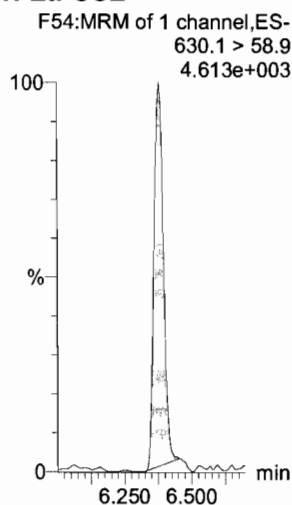
**PFODA**



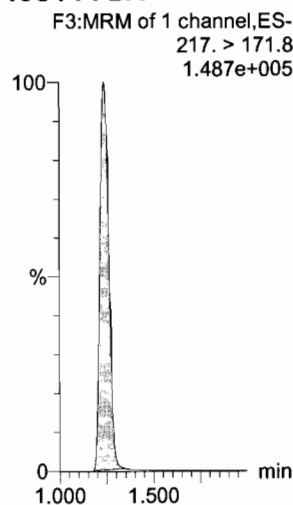
**N-MeFOSE**



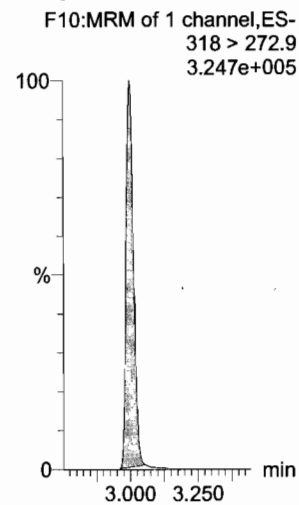
**N-EtFOSE**



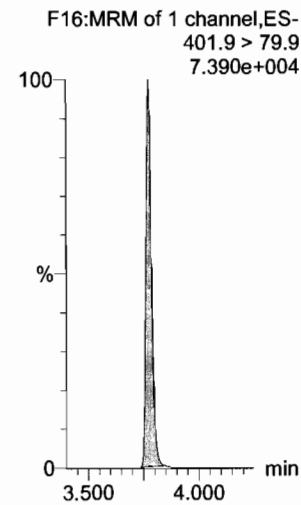
**13C4-PFBA**



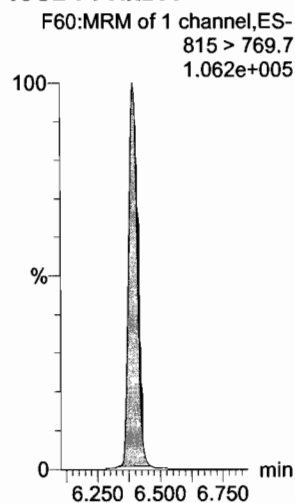
**13C5-PFHxA**



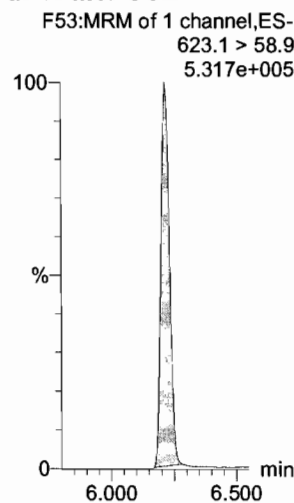
**13C3-PFHxS**



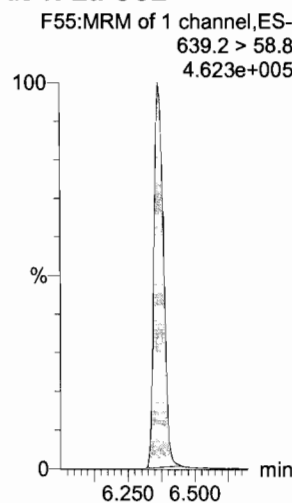
**13C2-PFHxDA**



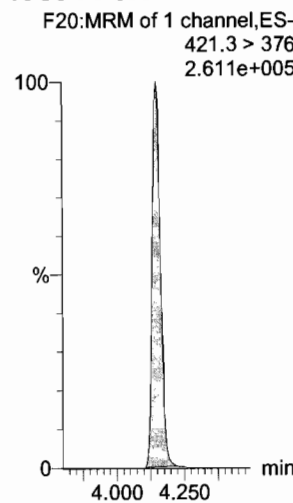
**d7-N-MeFOSE**



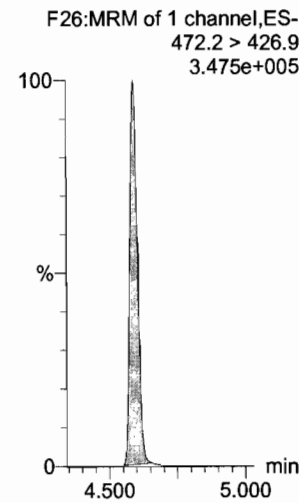
**d9-N-EtFOSE**



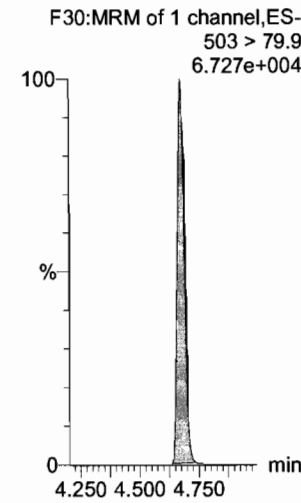
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



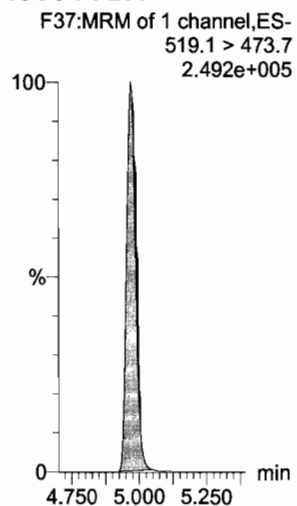
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

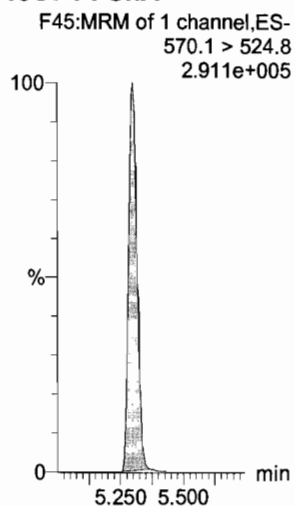
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_2, Date: 26-Oct-2017, Time: 09:26:00, ID: ST171026M1-1 PFC CS-2 17J3006, Description: PFC CS-2 17J3006

13C6-PFDA



13C7-PFUnA



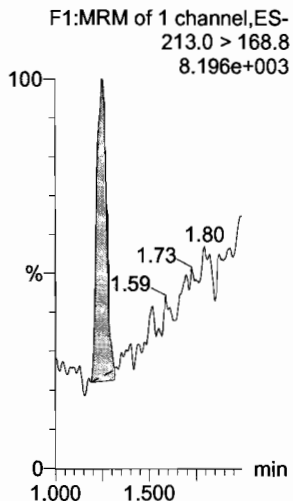
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

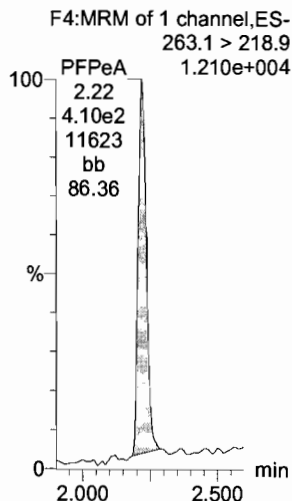
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_3, Date: 26-Oct-2017, Time: 09:37:20, ID: ST171026M1-2 PFC CS-1 17J3007, Description: PFC CS-1 17J3007

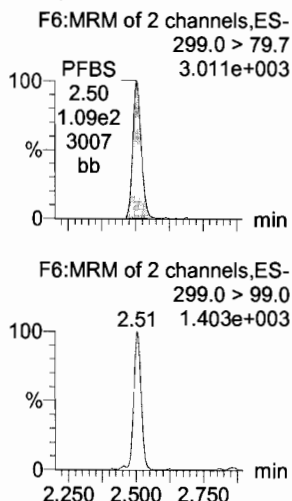
**PFBA**



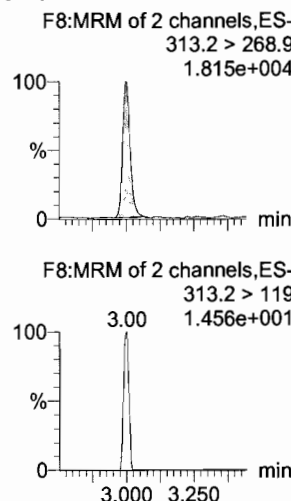
**PFPeA**



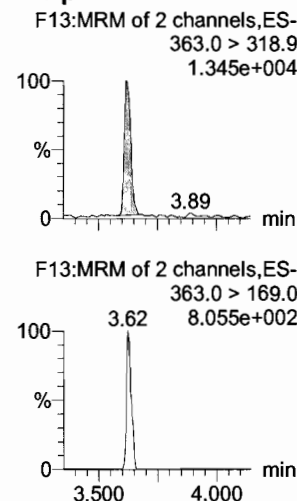
**PFBS**



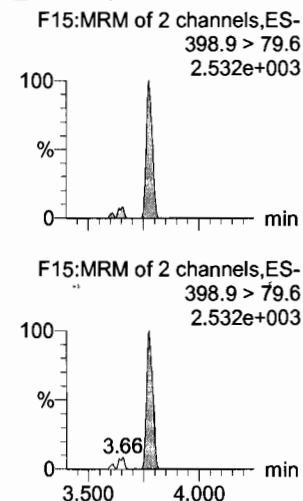
**PFHxA**



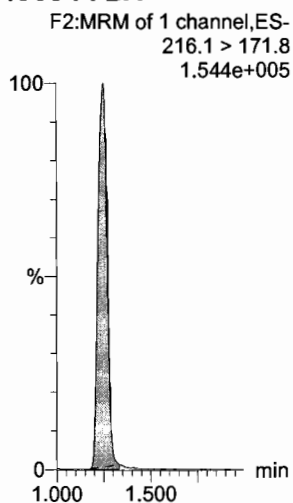
**PFHpA**



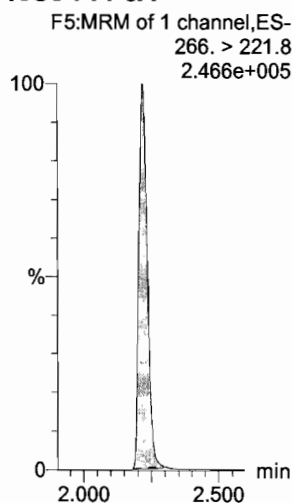
**L-PFHxS**



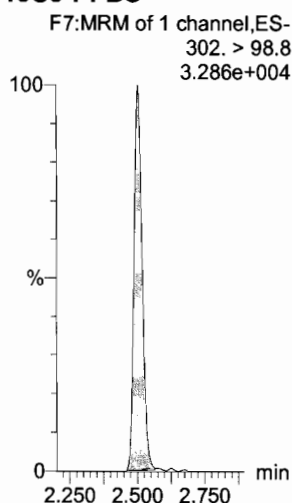
**13C3-PFBA**



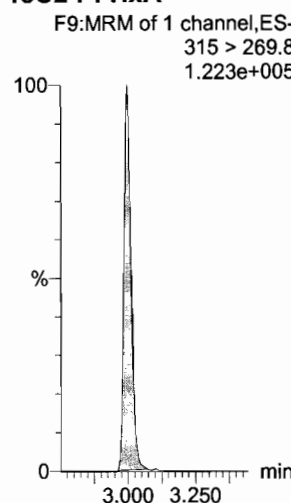
**13C3-PFPeA**



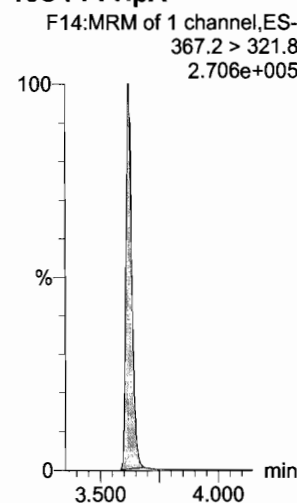
**13C3-PFBS**



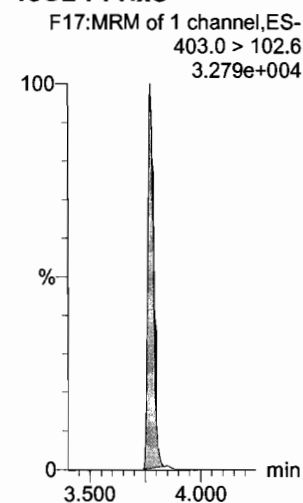
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



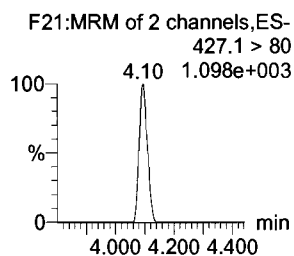
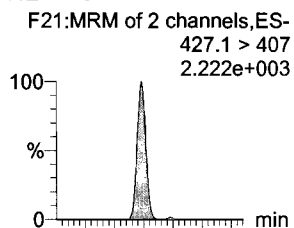
Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

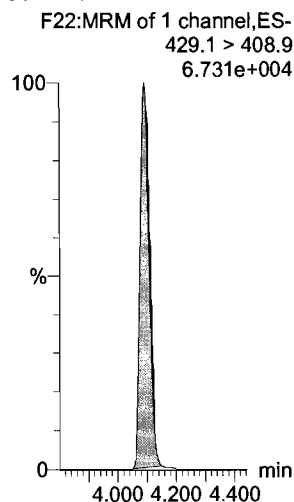
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Name: 171026M1\_3, Date: 26-Oct-2017, Time: 09:37:20, ID: ST171026M1-2 PFC CS-1 17J3007, Description: PFC CS-1 17J3007

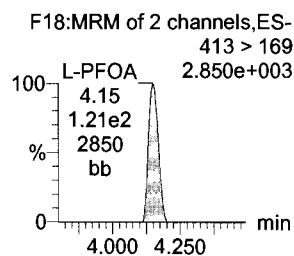
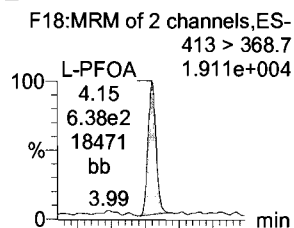
### 6:2 FTS



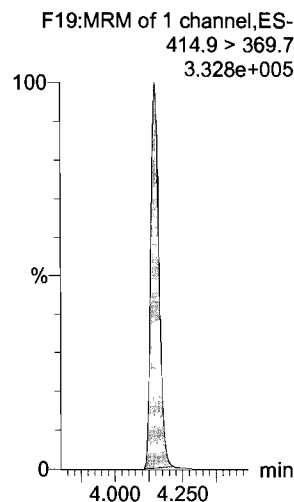
### 13C2-6:2 FTS



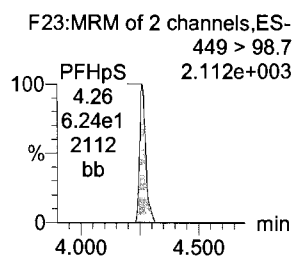
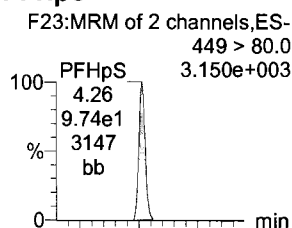
### L-PFOA



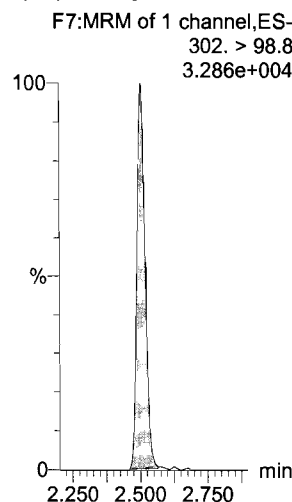
### 13C2-PFOA



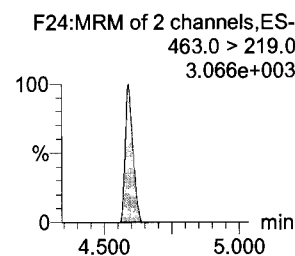
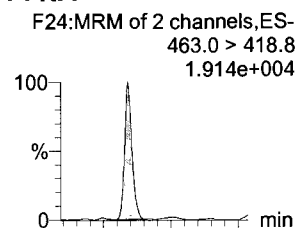
### PFHpS



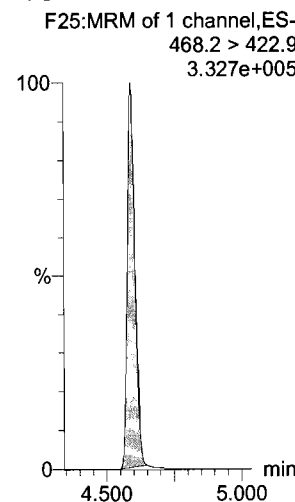
### 13C3-PFBS



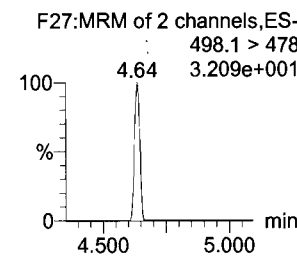
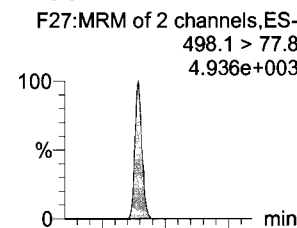
### PFNA



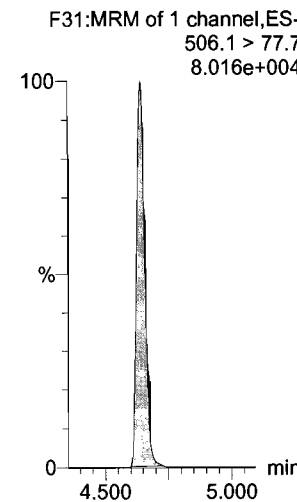
### 13C5-PFNA



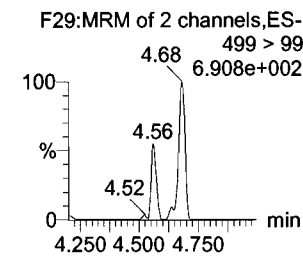
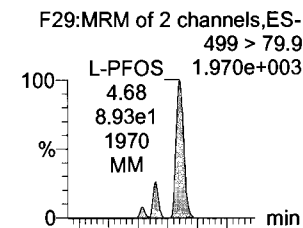
### PFOSA



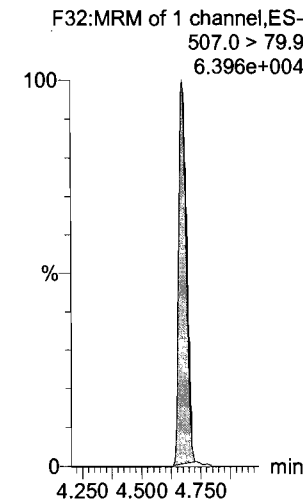
### 13C8-PFOSA



### L-PFOS



### 13C8-PFOS



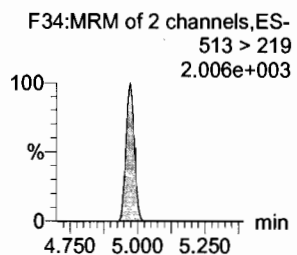
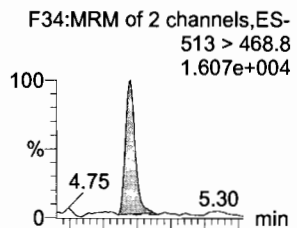
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

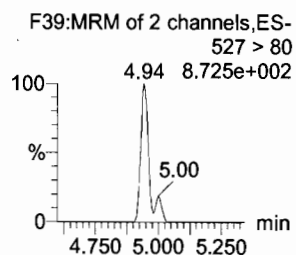
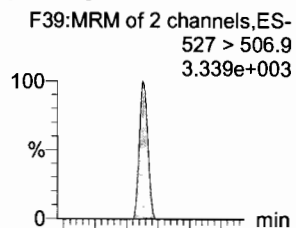
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_3, Date: 26-Oct-2017, Time: 09:37:20, ID: ST171026M1-2 PFC CS-1 17J3007, Description: PFC CS-1 17J3007

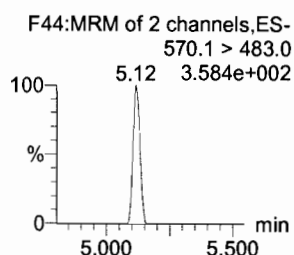
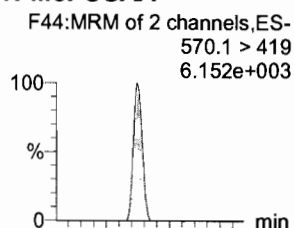
**PFDA**



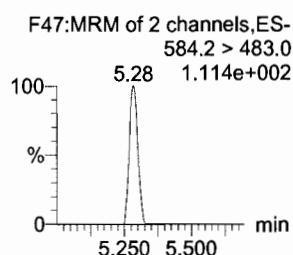
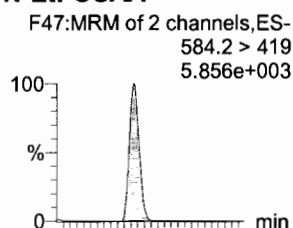
**8:2 FTS**



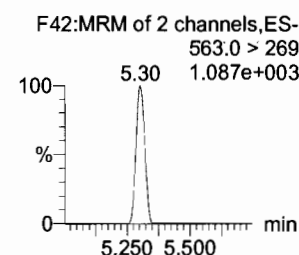
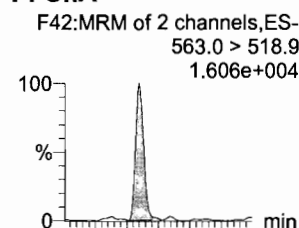
**N-MeFOSAA**



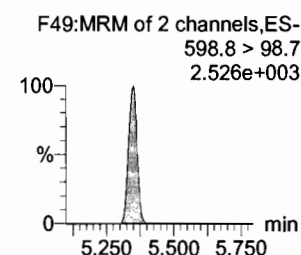
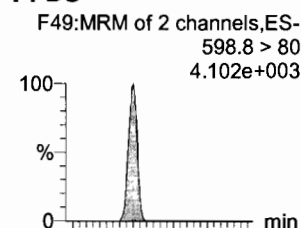
**N-EtFOSAA**



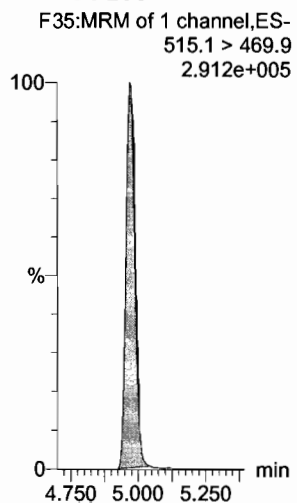
**PFUnA**



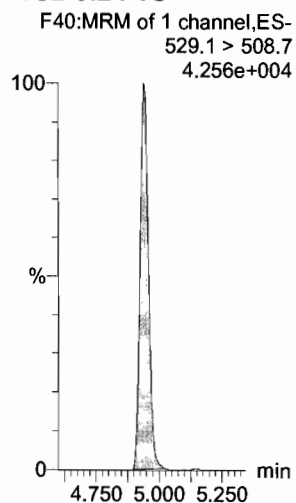
**PFDS**



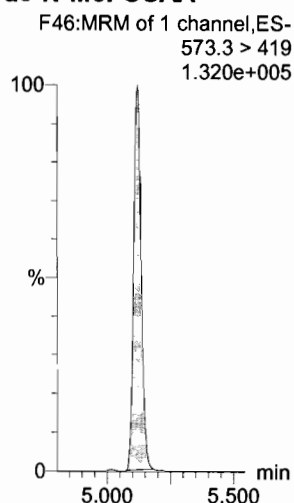
**13C2-PFDA**



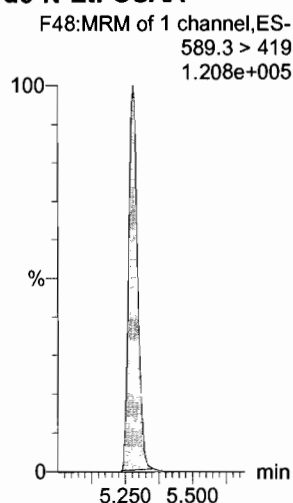
**13C2-8:2 FTS**



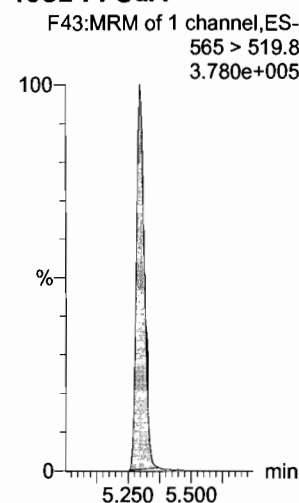
**d3-N-MeFOSAA**



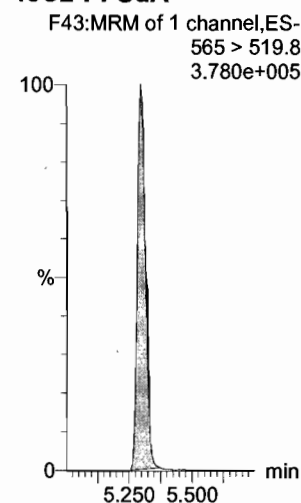
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

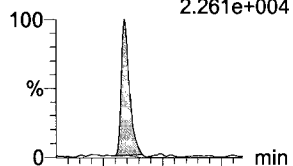
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

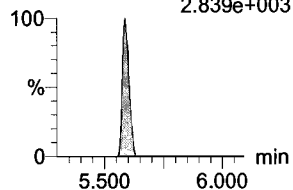
Name: 171026M1\_3, Date: 26-Oct-2017, Time: 09:37:20, ID: ST171026M1-2 PFC CS-1 17J3007, Description: PFC CS-1 17J3007

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

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
2.261e+004

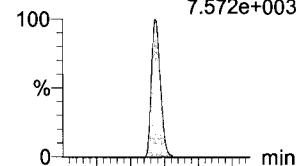


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
2.839e+003

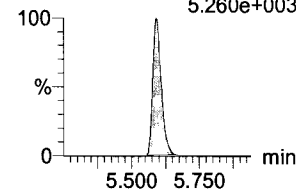


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
7.572e+003

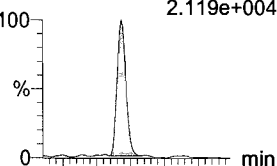


F33:MRM of 2 channels,ES-  
512.1 > 219  
5.260e+003

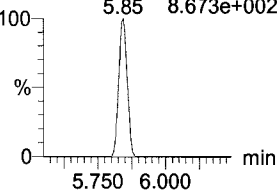


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
2.119e+004

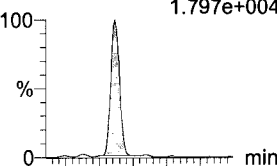


F56:MRM of 2 channels,ES-  
662.9 > 319  
8.673e+002

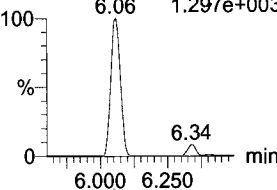


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
1.797e+004

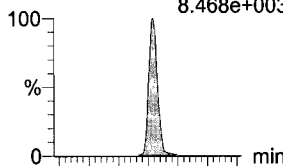


F57:MRM of 2 channels,ES-  
712.9 > 369  
1.297e+003

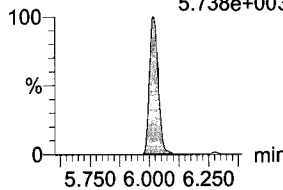


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
8.468e+003

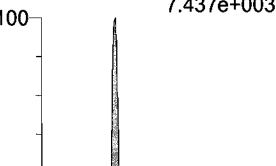


F38:MRM of 2 channels,ES-  
526.1 > 219  
5.738e+003



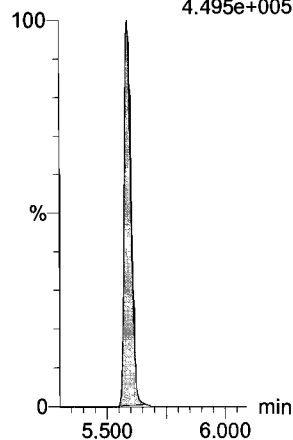
**PFH<sub>x</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
7.437e+003



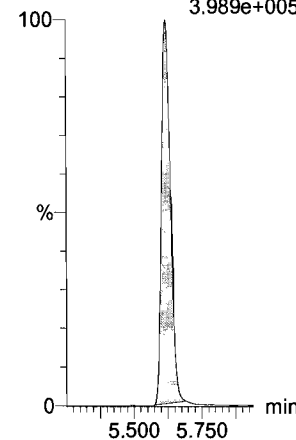
**<sup>13</sup>C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
4.495e+005



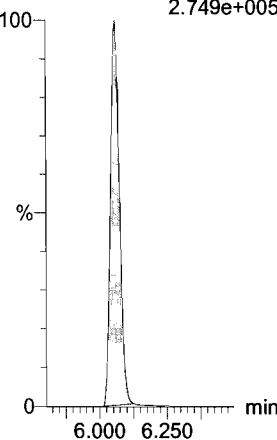
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.989e+005



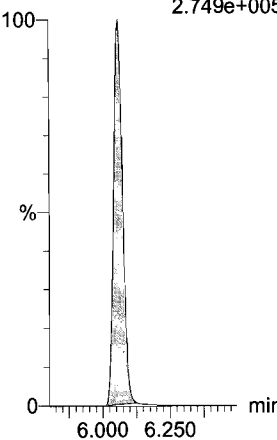
**<sup>13</sup>C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.749e+005



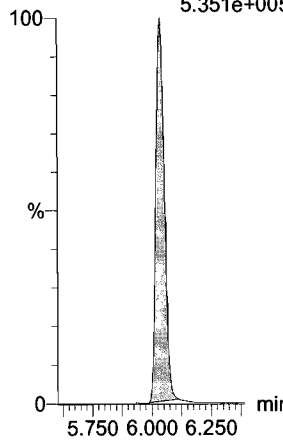
**<sup>13</sup>C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.749e+005



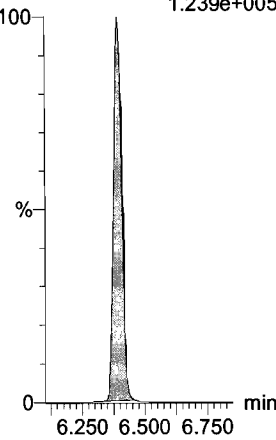
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
5.351e+005



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

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.239e+005





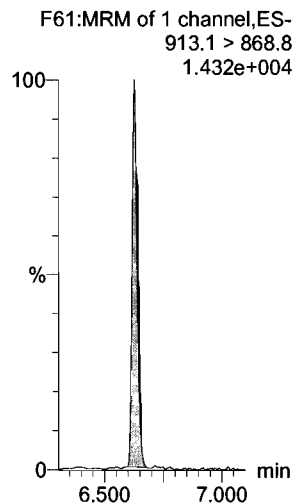
Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

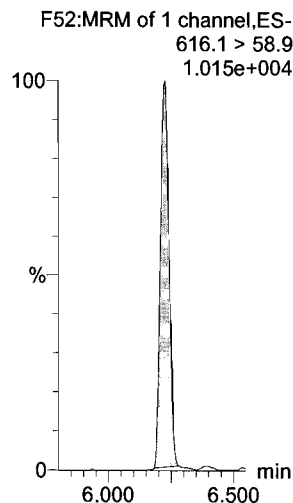
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_3, Date: 26-Oct-2017, Time: 09:37:20, ID: ST171026M1-2 PFC CS-1 17J3007, Description: PFC CS-1 17J3007

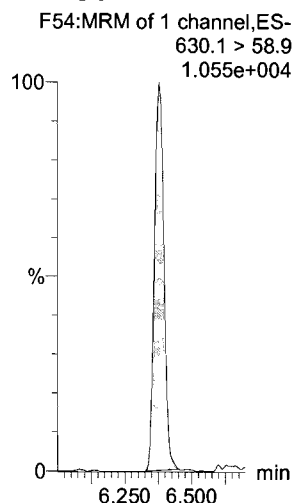
**PFODA**



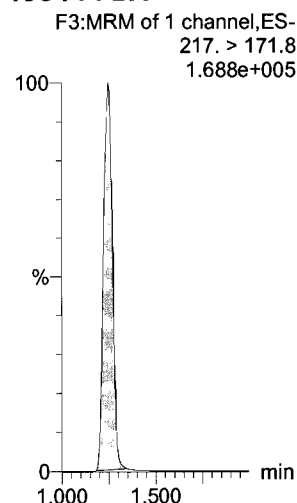
**N-MeFOSE**



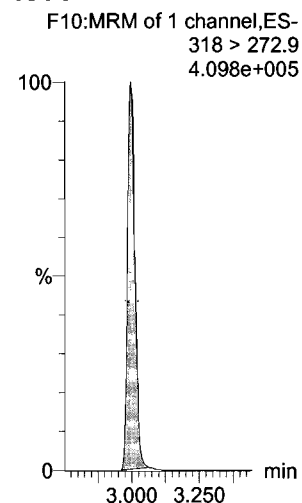
**N-EtFOSE**



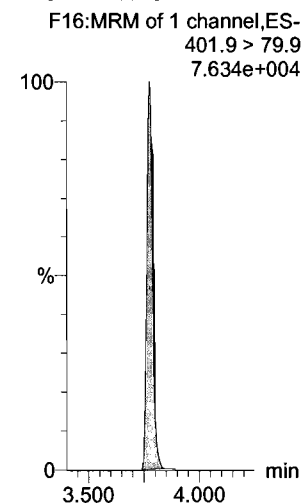
**13C4-PFBA**



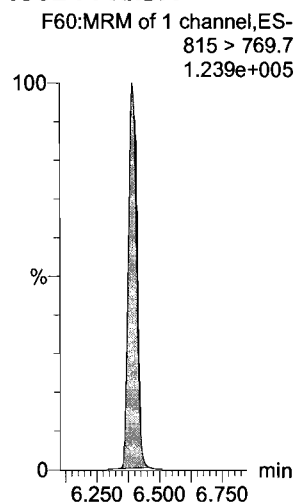
**13C5-PFHxA**



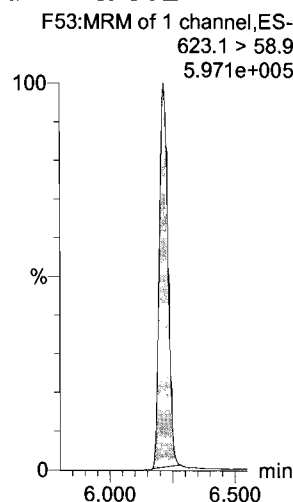
**13C3-PFHxS**



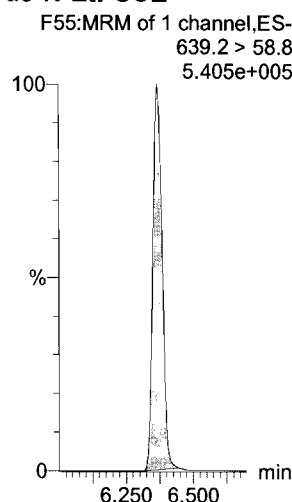
**13C2-PFHxDA**



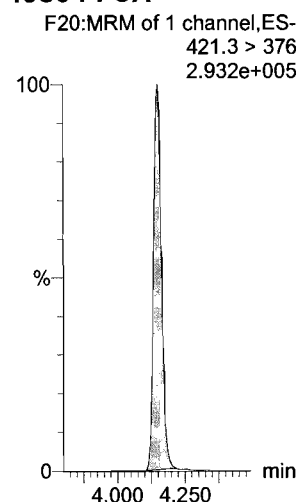
**d7-N-MeFOSE**



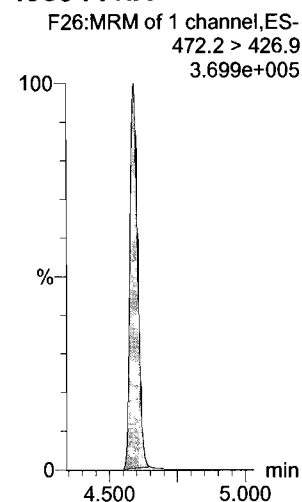
**d9-N-EtFOSE**



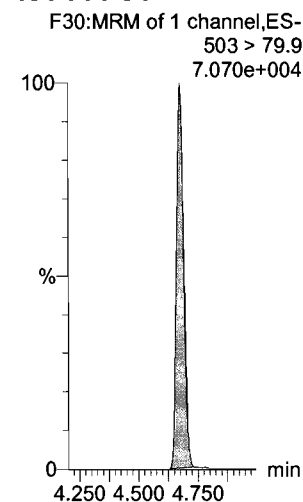
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



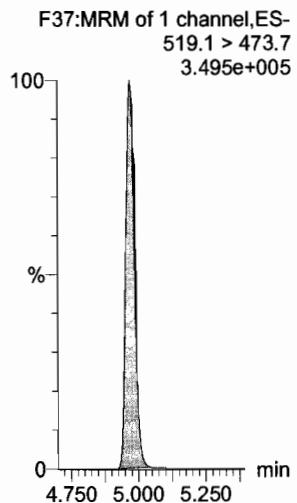
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

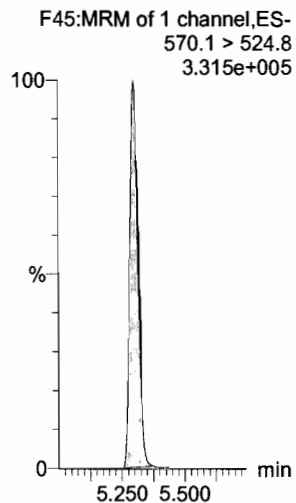
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Name: 171026M1\_3, Date: 26-Oct-2017, Time: 09:37:20, ID: ST171026M1-2 PFC CS-1 17J3007, Description: PFC CS-1 17J3007

13C6-PFDA



13C7-PFUnA



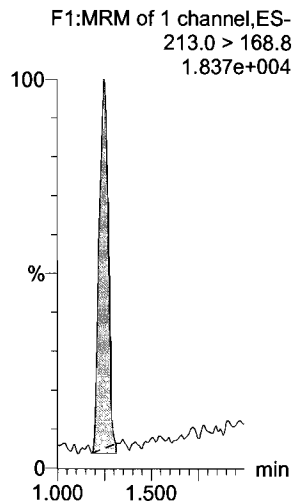
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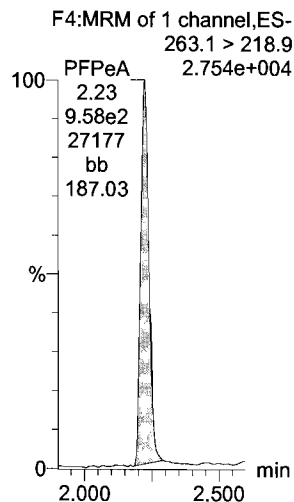
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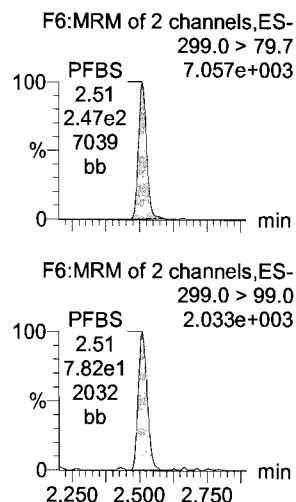
**PFBA**



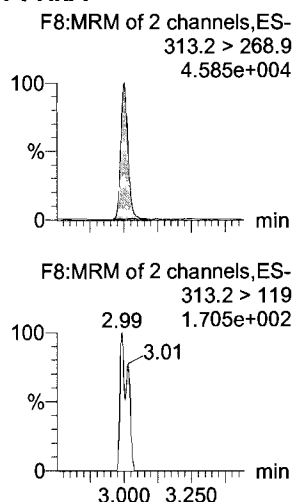
**PFPeA**



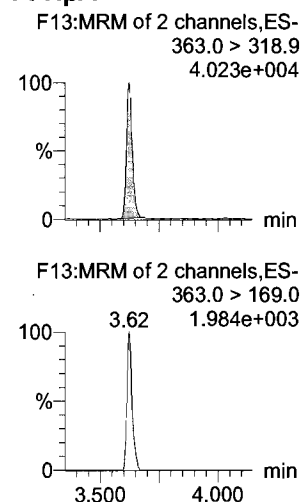
**PFBS**



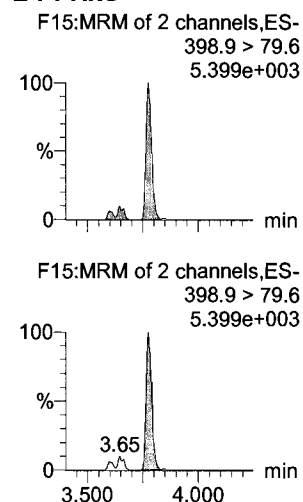
**PFHxA**



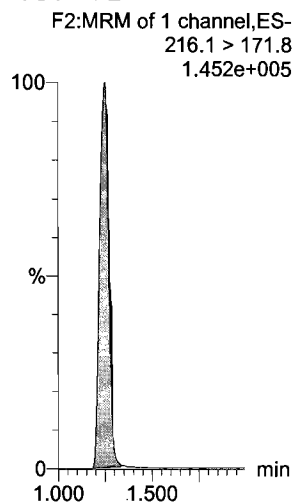
**PFHpA**



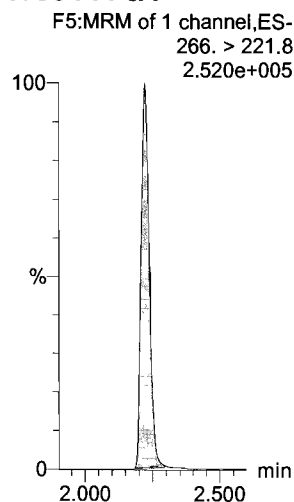
**L-PFHxS**



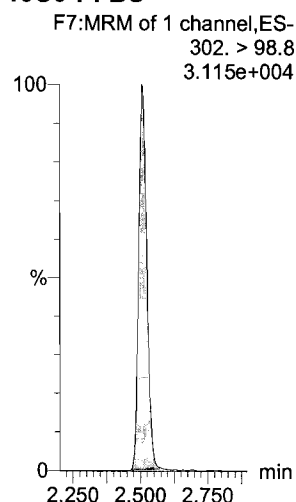
**13C3-PFBA**



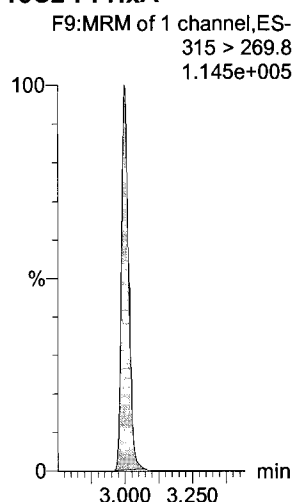
**13C3-PFPeA**



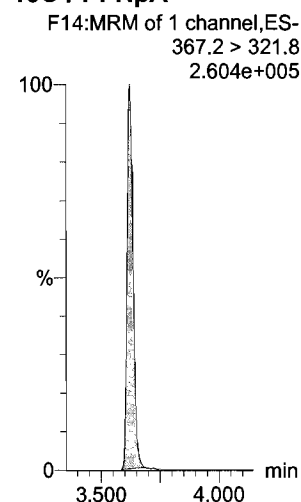
**13C3-PFBS**



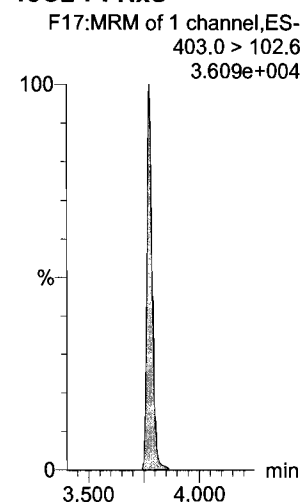
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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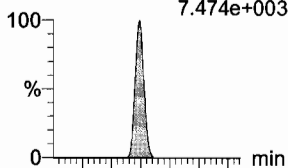
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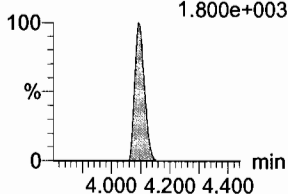
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6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
7.474e+003

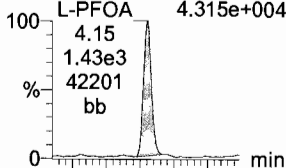


F21:MRM of 2 channels,ES-  
427.1 > 80  
1.800e+003

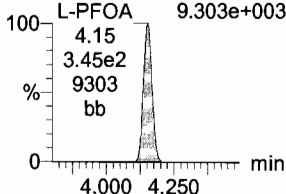


L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.315e+004

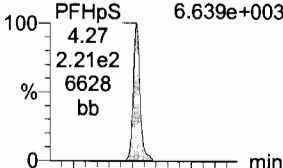


F18:MRM of 2 channels,ES-  
413 > 169  
9.303e+003

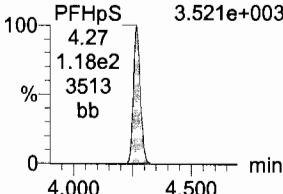


PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
6.639e+003

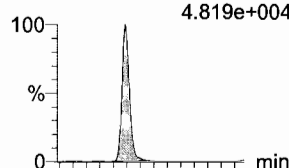


F23:MRM of 2 channels,ES-  
449 > 98.7  
3.521e+003

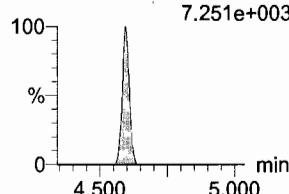


PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.819e+004

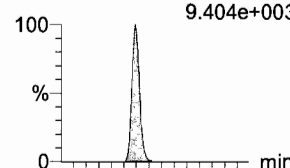


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
7.251e+003

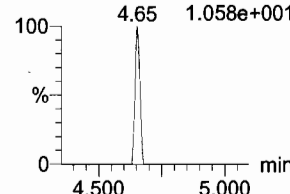


PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
9.404e+003

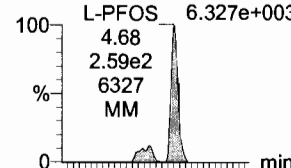


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.058e+001

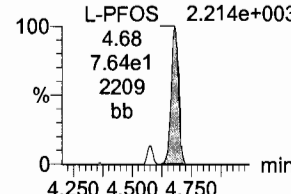


L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
6.327e+003

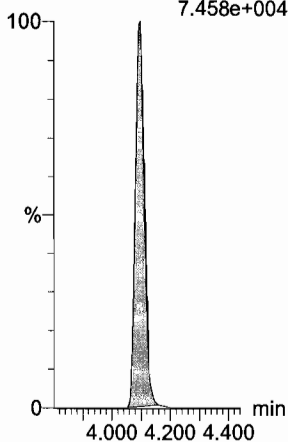


F29:MRM of 2 channels,ES-  
499 > 99  
2.214e+003



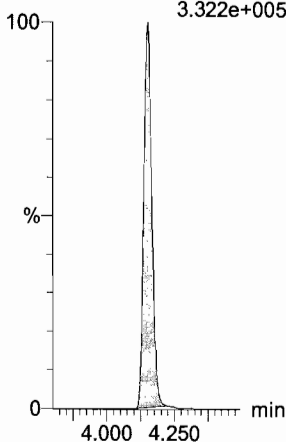
13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
7.458e+004



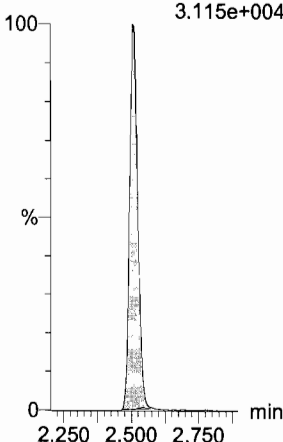
13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.322e+005



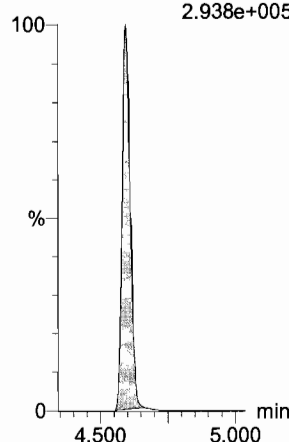
13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
3.115e+004



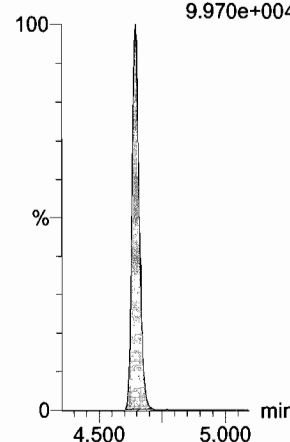
13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.938e+005



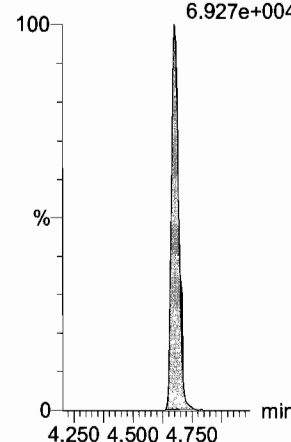
13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
9.970e+004



13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.927e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

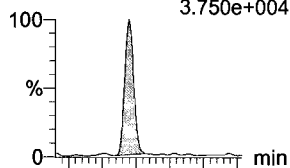
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

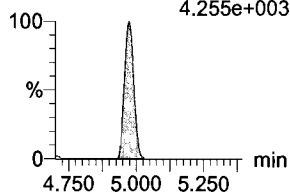
Name: 171026M1\_4, Date: 26-Oct-2017, Time: 09:48:39, ID: ST171026M1-3 PFC CS0 17J1805, Description: PFC CS0 17J1805

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
3.750e+004

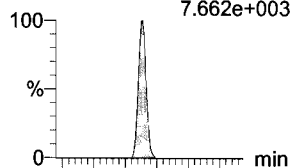


F34:MRM of 2 channels,ES-  
513 > 219  
4.255e+003

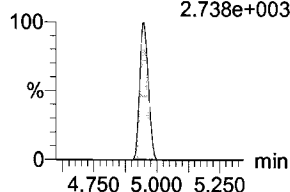


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
7.662e+003

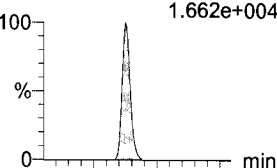


F39:MRM of 2 channels,ES-  
527 > 80  
2.738e+003

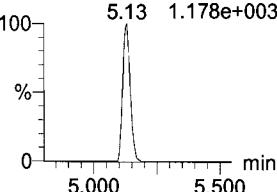


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.662e+004

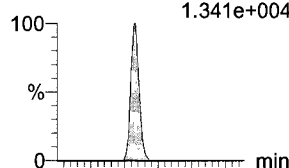


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
5.13 1.178e+003

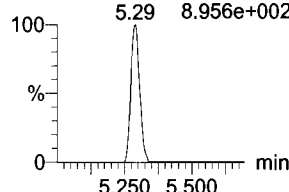


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.341e+004

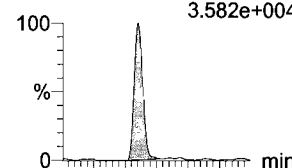


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
5.29 8.956e+002

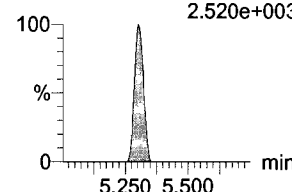


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
3.582e+004

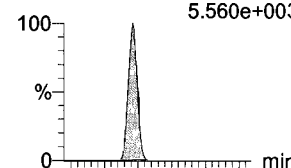


F42:MRM of 2 channels,ES-  
563.0 > 269  
2.520e+003

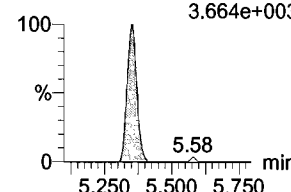


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
5.560e+003

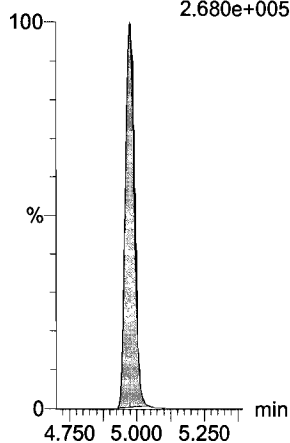


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
3.664e+003



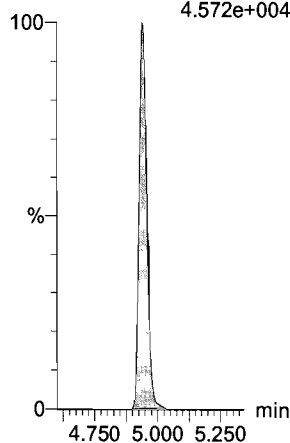
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.680e+005



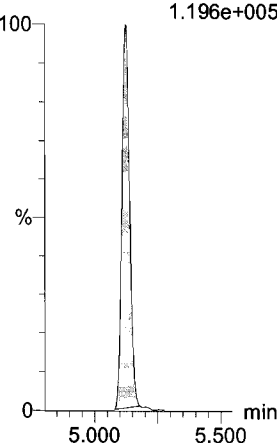
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.572e+004



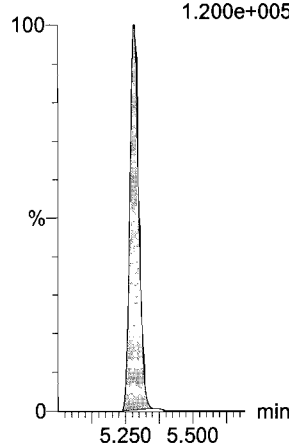
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.196e+005



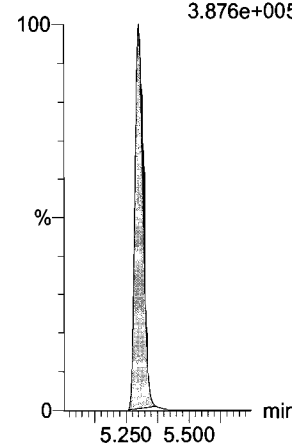
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.200e+005



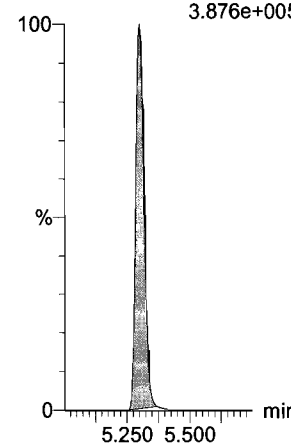
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.876e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.876e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

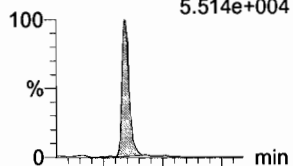
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Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

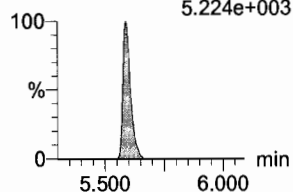
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**PFD<sub>o</sub>A**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
5.514e+004

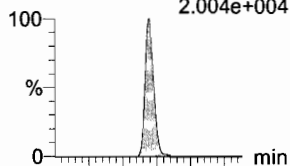


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
5.224e+003

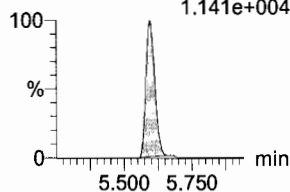


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.004e+004

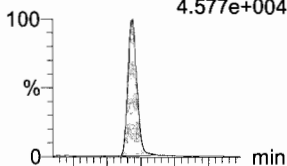


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.141e+004

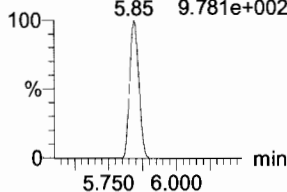


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
4.577e+004

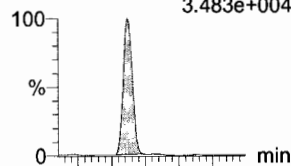


F56:MRM of 2 channels,ES-  
662.9 > 319  
5.85 9.781e+002

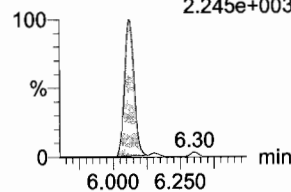


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
3.483e+004

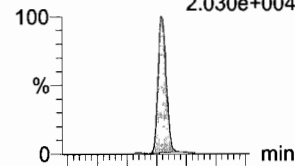


F57:MRM of 2 channels,ES-  
712.9 > 369  
2.245e+003

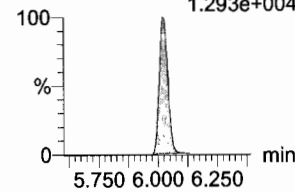


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.030e+004

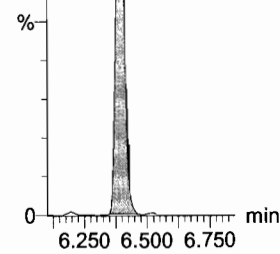
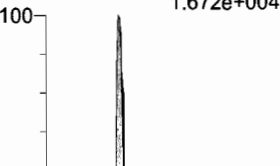


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.293e+004



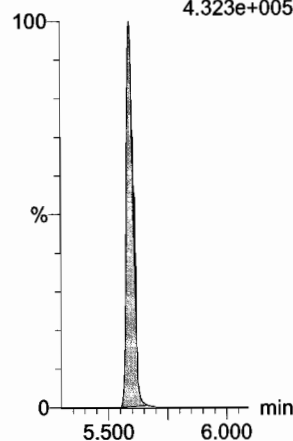
**PFH<sub>x</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
1.672e+004



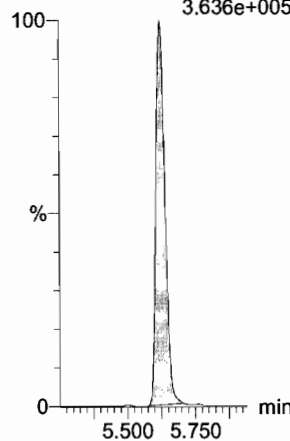
**13C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
4.323e+005



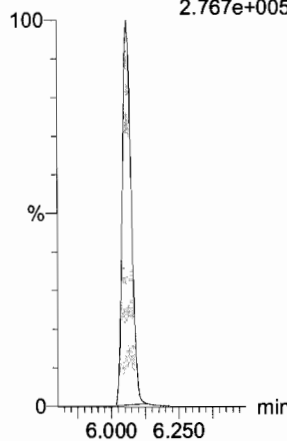
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.636e+005



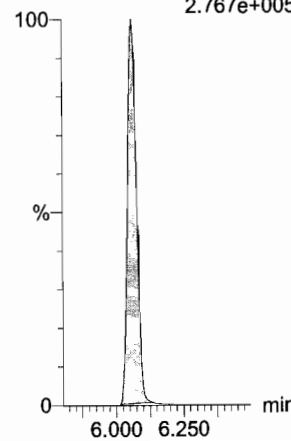
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.767e+005



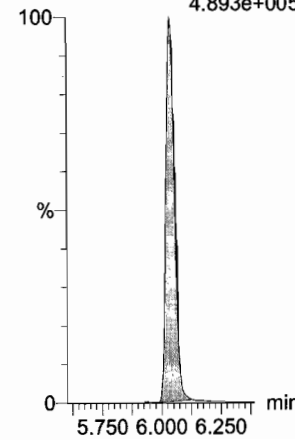
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.767e+005



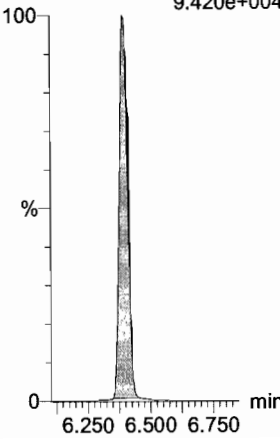
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.893e+005



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

F60:MRM of 1 channel,ES-  
815 > 769.7  
9.420e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

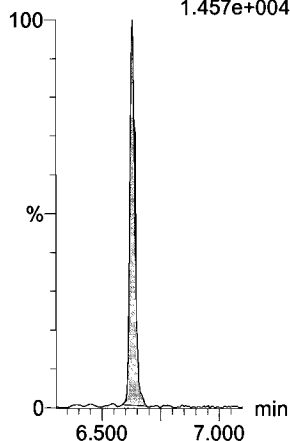
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_4, Date: 26-Oct-2017, Time: 09:48:39, ID: ST171026M1-3 PFC CS0 17J1805, Description: PFC CS0 17J1805

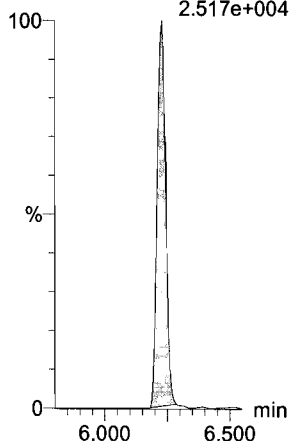
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
1.457e+004



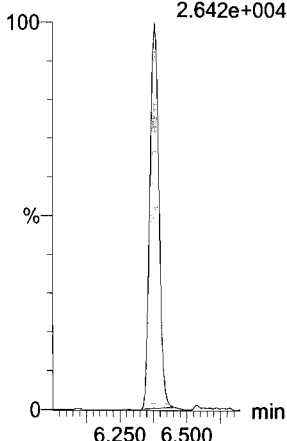
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.517e+004



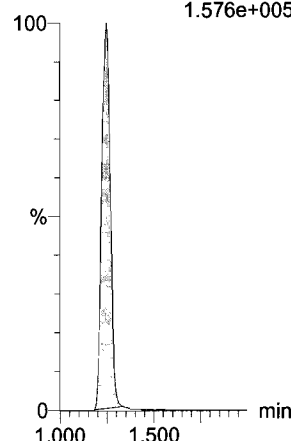
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
2.642e+004



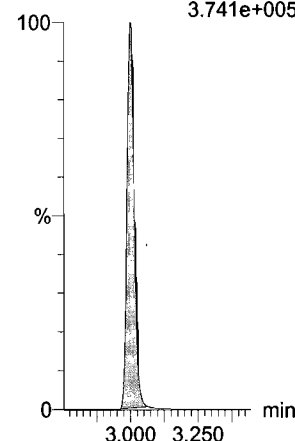
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.576e+005



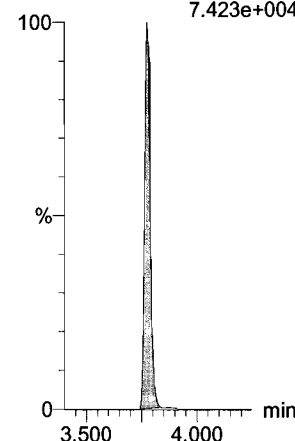
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
3.741e+005



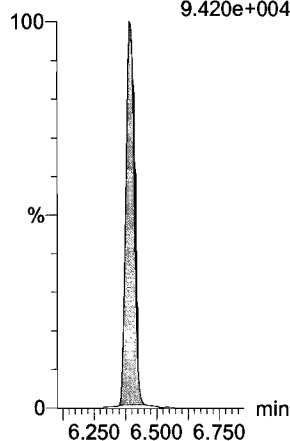
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.423e+004



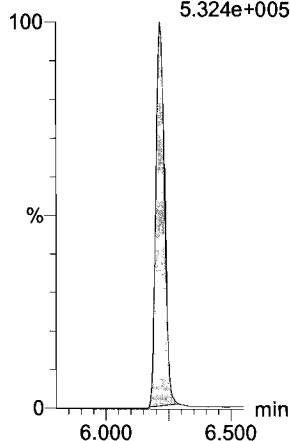
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
9.420e+004



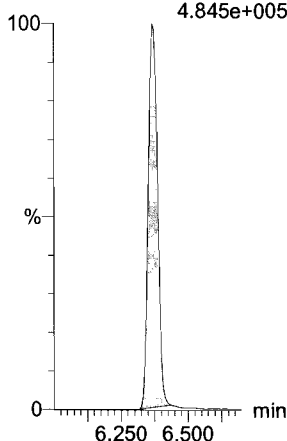
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
5.324e+005



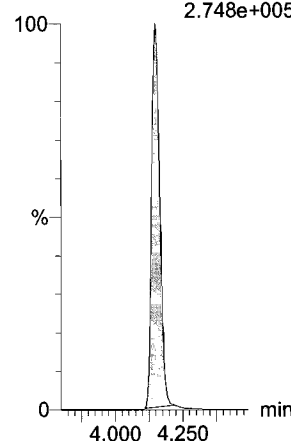
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
4.845e+005



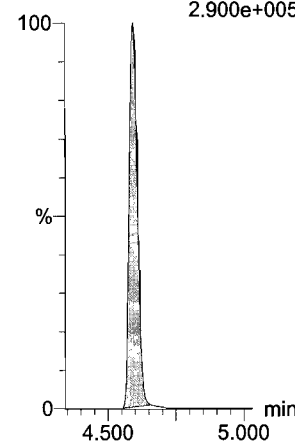
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
2.748e+005



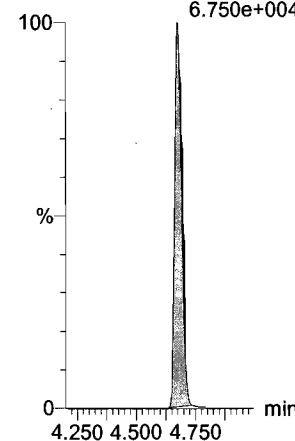
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.900e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
6.750e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

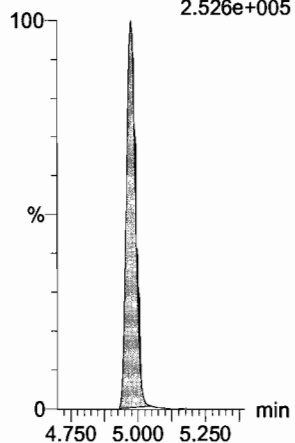
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_4, Date: 26-Oct-2017, Time: 09:48:39, ID: ST171026M1-3 PFC CS0 17J1805, Description: PFC CS0 17J1805

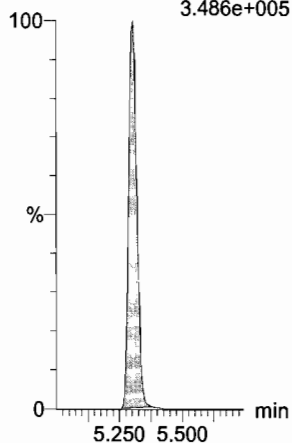
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.526e+005



13C7-PFUnA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.486e+005





Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

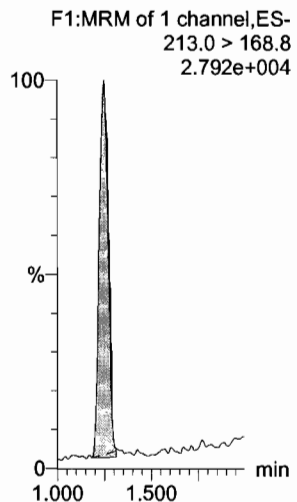
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

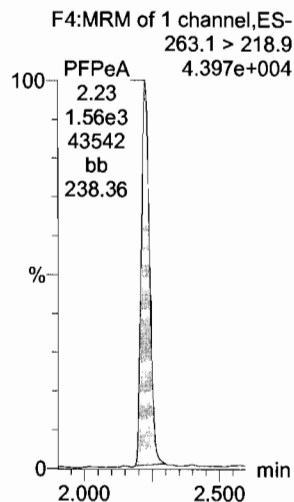
1 A

Name: 171026M1\_5, Date: 26-Oct-2017, Time: 09:59:50, ID: ST171026M1-4 PFC CS1 17J3009, Description: PFC CS1 17J3009

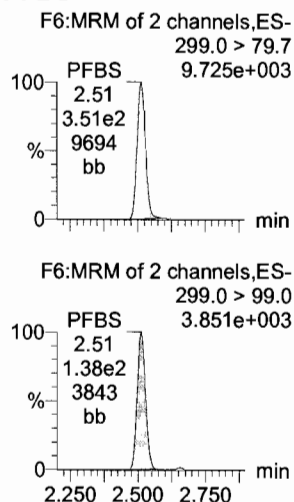
**PFBA**



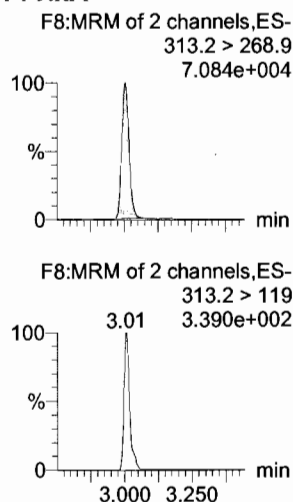
**PFPeA**



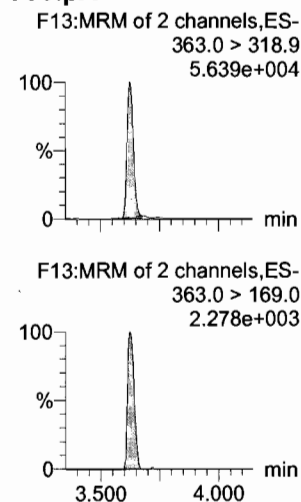
**PFBS**



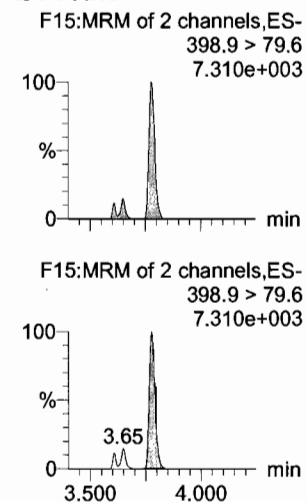
**PFHxA**



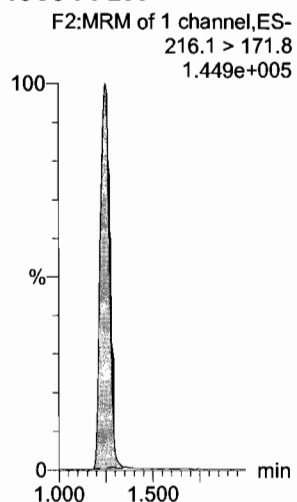
**PFHpA**



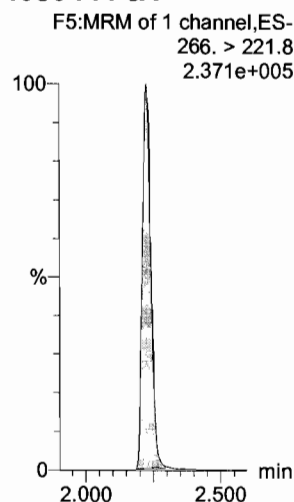
**L-PFHxS**



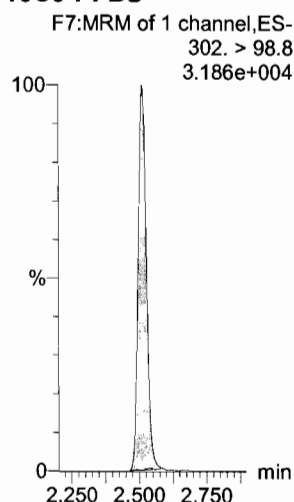
**13C3-PFBA**



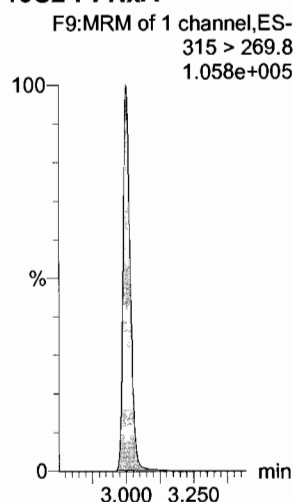
**13C3-PFPeA**



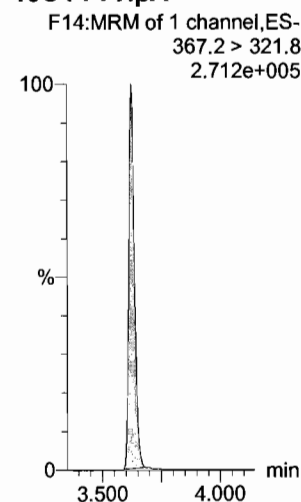
**13C3-PFBS**



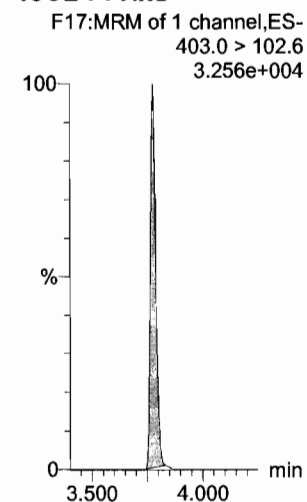
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

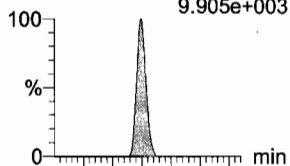
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

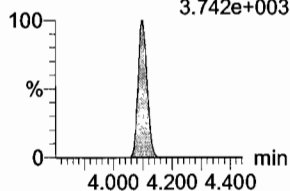
Name: 171026M1\_5, Date: 26-Oct-2017, Time: 09:59:50, ID: ST171026M1-4 PFC CS1 17J3009, Description: PFC CS1 17J3009

6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
9.905e+003

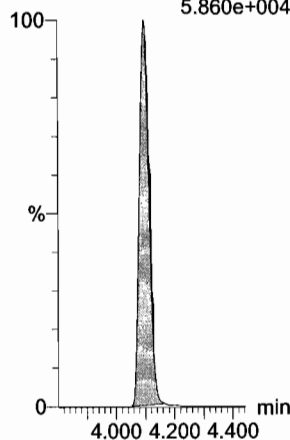


F21:MRM of 2 channels,ES-  
427.1 > 80  
3.742e+003



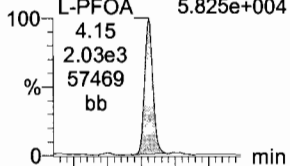
13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
5.860e+004

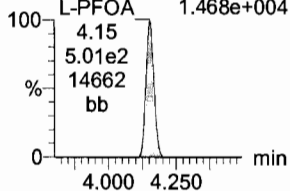


L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
5.825e+004

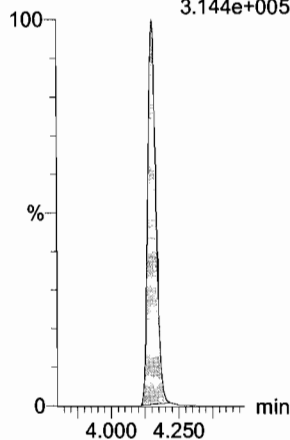


F18:MRM of 2 channels,ES-  
413 > 169  
1.468e+004



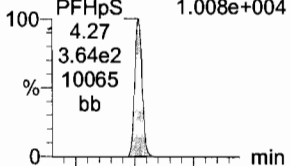
13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.144e+005

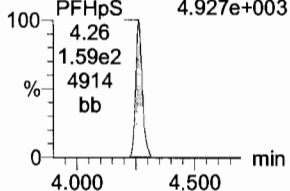


PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.008e+004

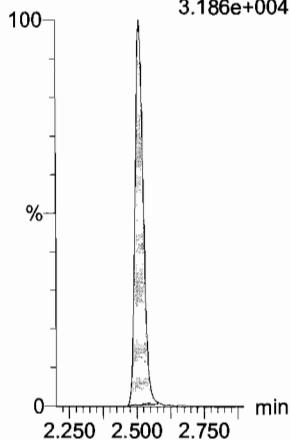


F23:MRM of 2 channels,ES-  
449 > 98.7  
4.927e+003



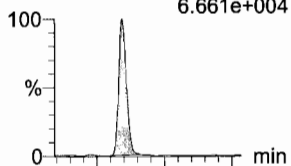
13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
3.186e+004

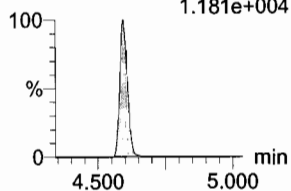


PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
6.661e+004

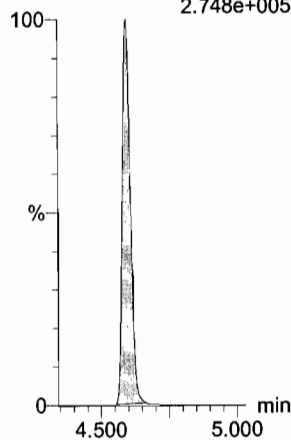


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.181e+004



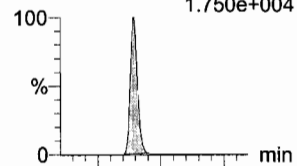
13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.748e+005

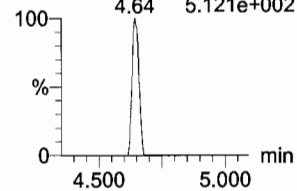


PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.750e+004

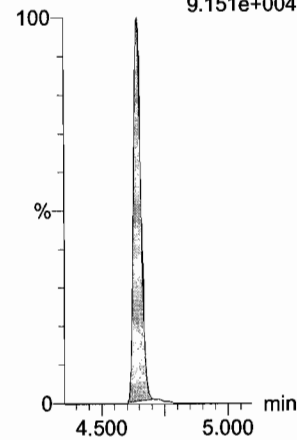


F27:MRM of 2 channels,ES-  
498.1 > 478  
5.121e+002



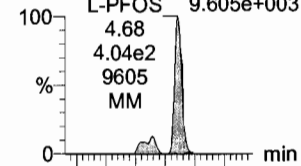
13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
9.151e+004

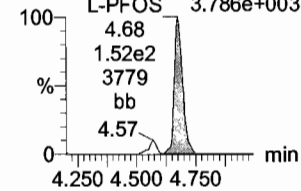


L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
9.605e+003

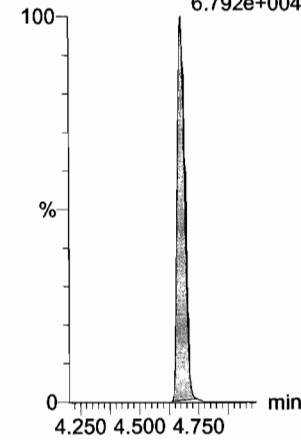


F29:MRM of 2 channels,ES-  
499 > 99  
3.786e+003



13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.792e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

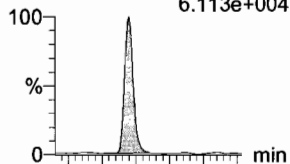
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

1

Name: 171026M1\_5, Date: 26-Oct-2017, Time: 09:59:50, ID: ST171026M1-4 PFC CS1 17J3009, Description: PFC CS1 17J3009

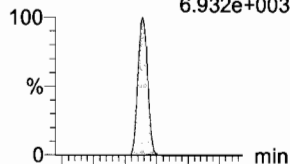
**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
6.113e+004



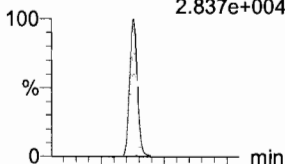
**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
6.932e+003



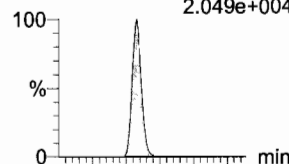
**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
2.837e+004



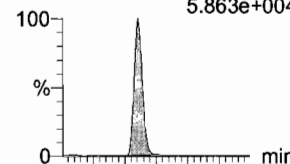
**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
2.049e+004



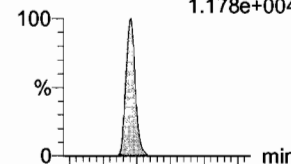
**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
5.863e+004

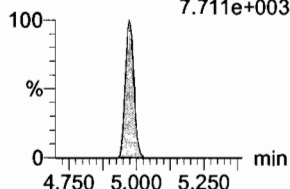


**PFDS**

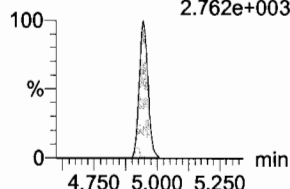
F49:MRM of 2 channels,ES-  
598.8 > 80  
1.178e+004



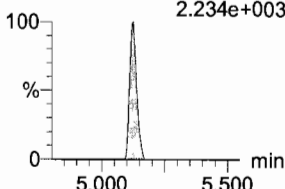
F34:MRM of 2 channels,ES-  
513 > 219  
7.711e+003



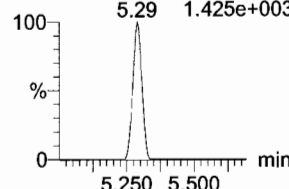
F39:MRM of 2 channels,ES-  
527 > 80  
2.762e+003



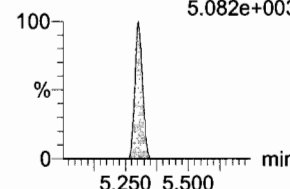
F44:MRM of 2 channels,ES-  
570.1 > 483.0  
2.234e+003



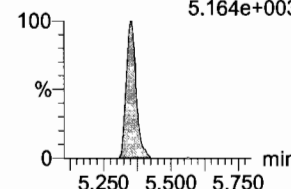
F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.425e+003



F42:MRM of 2 channels,ES-  
563.0 > 269  
5.082e+003

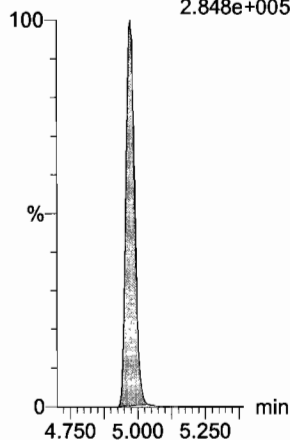


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
5.164e+003



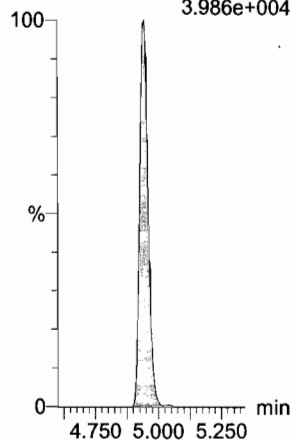
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.848e+005



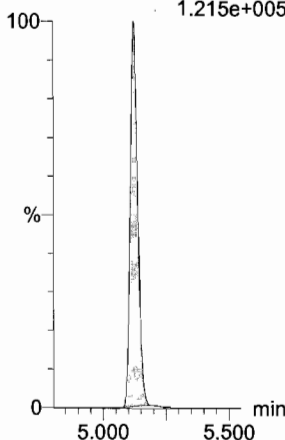
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
3.986e+004



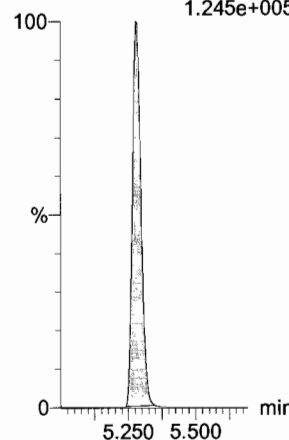
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.215e+005



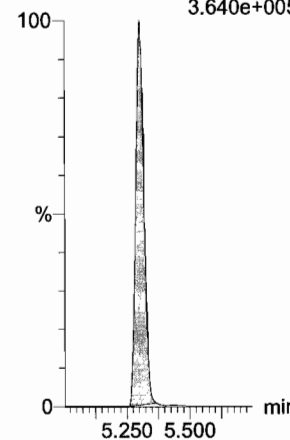
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.245e+005



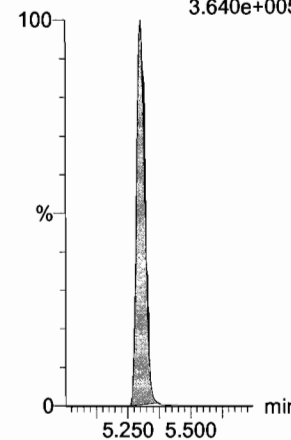
**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.640e+005



**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.640e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

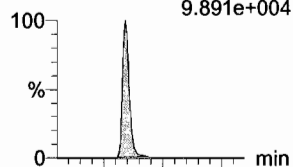
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Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

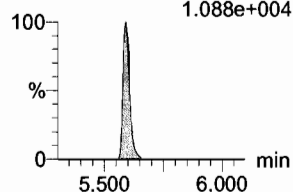
Name: 171026M1\_5, Date: 26-Oct-2017, Time: 09:59:50, ID: ST171026M1-4 PFC CS1 17J3009, Description: PFC CS1 17J3009

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

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
9.891e+004

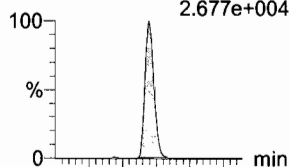


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
1.088e+004

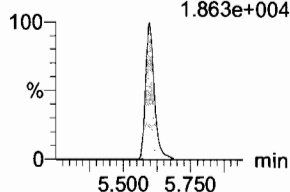


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.677e+004

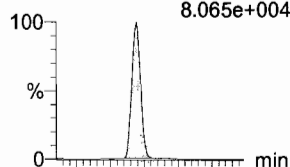


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.863e+004

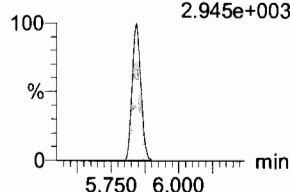


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
8.065e+004

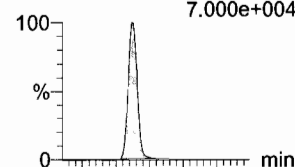


F56:MRM of 2 channels,ES-  
662.9 > 319  
2.945e+003

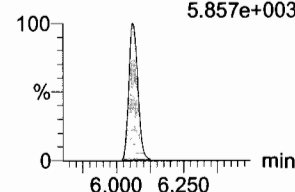


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
7.000e+004

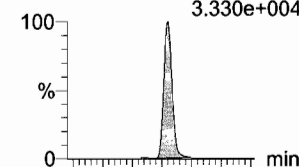


F57:MRM of 2 channels,ES-  
712.9 > 369  
5.857e+003

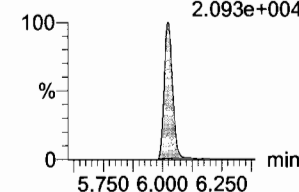


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
3.330e+004

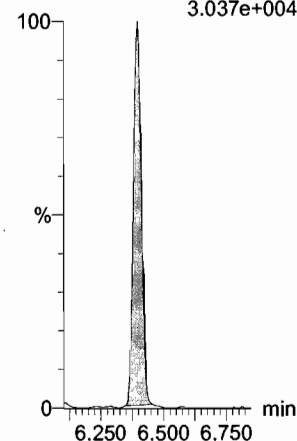


F38:MRM of 2 channels,ES-  
526.1 > 219  
2.093e+004



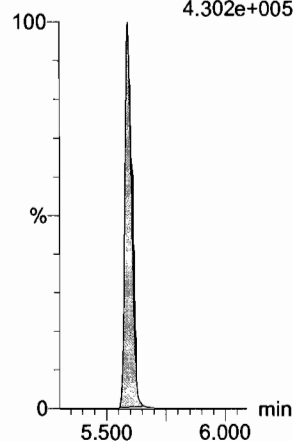
**PFH<sub>x</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
3.037e+004



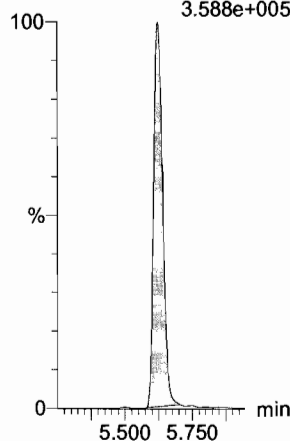
**<sup>13</sup>C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
4.302e+005



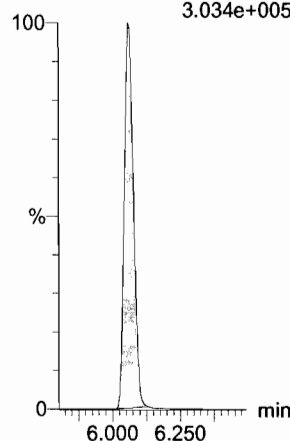
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.588e+005



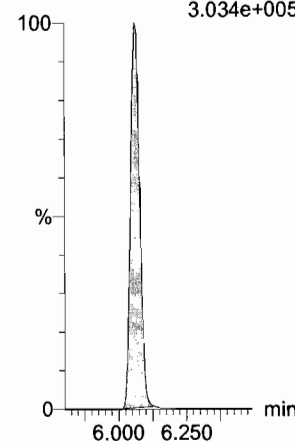
**<sup>13</sup>C2-PFT<sub>r</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
3.034e+005



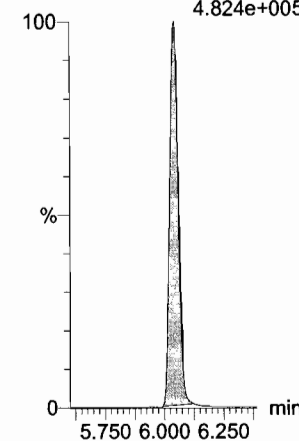
**<sup>13</sup>C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
3.034e+005



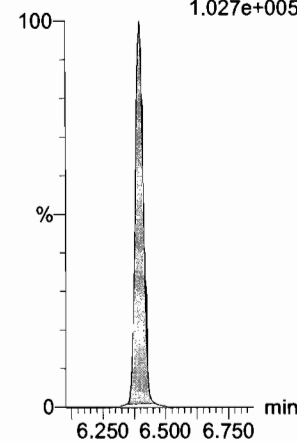
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.824e+005



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

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.027e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

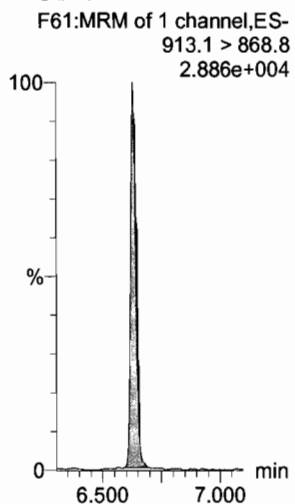
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

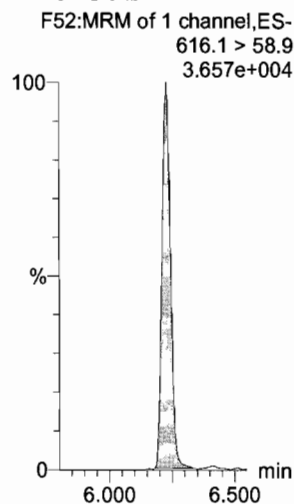
7 (1)

Name: 171026M1\_5, Date: 26-Oct-2017, Time: 09:59:50, ID: ST171026M1-4 PFC CS1 17J3009, Description: PFC CS1 17J3009

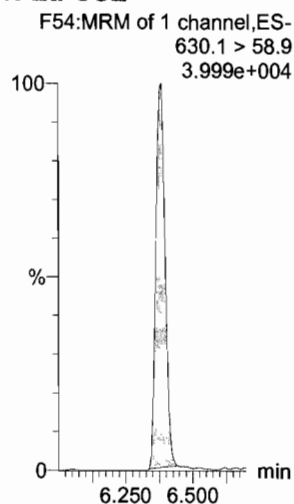
**PFODA**



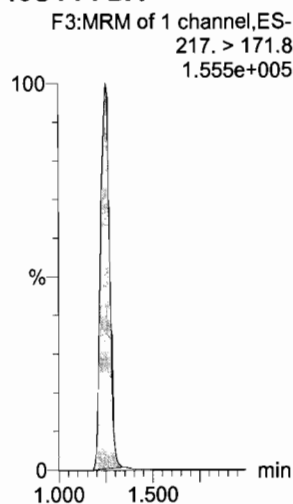
**N-MeFOSE**



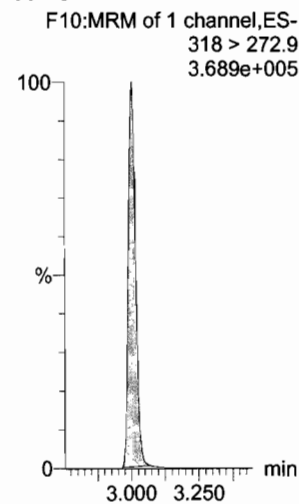
**N-EtFOSE**



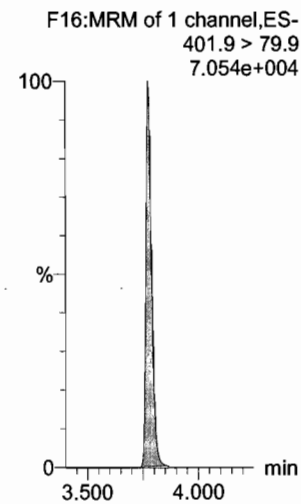
**13C4-PFBA**



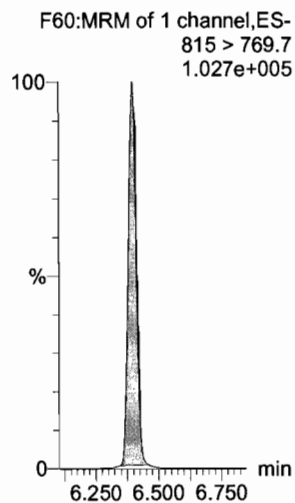
**13C5-PFHxA**



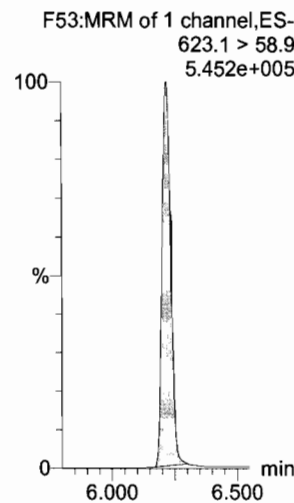
**13C3-PFHxS**



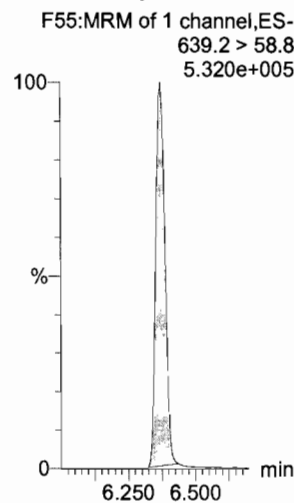
**13C2-PFHxDA**



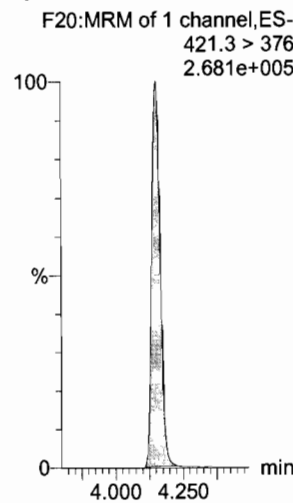
**d7-N-MeFOSE**



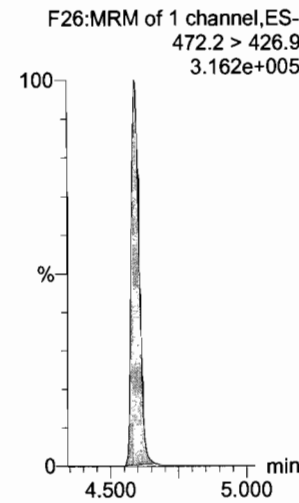
**d9-N-EtFOSE**



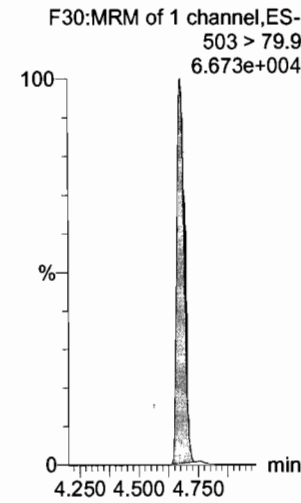
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

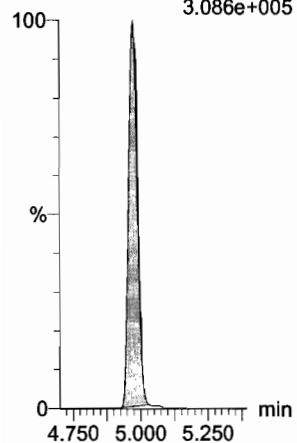
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Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_5, Date: 26-Oct-2017, Time: 09:59:50, ID: ST171026M1-4 PFC CS1 17J3009, Description: PFC CS1 17J3009

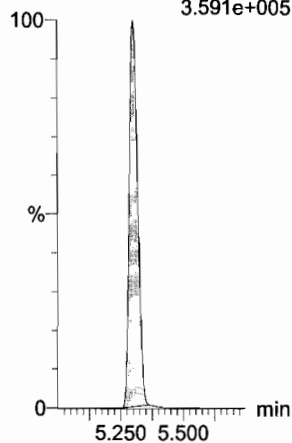
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.086e+005



13C7-PFUnA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.591e+005



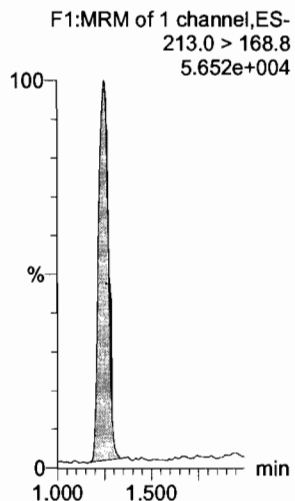
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

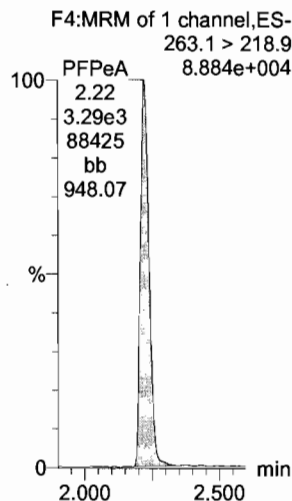
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_6, Date: 26-Oct-2017, Time: 10:11:00, ID: ST171026M1-5 PFC CS2 17J2519, Description: PFC CS2 17J2519

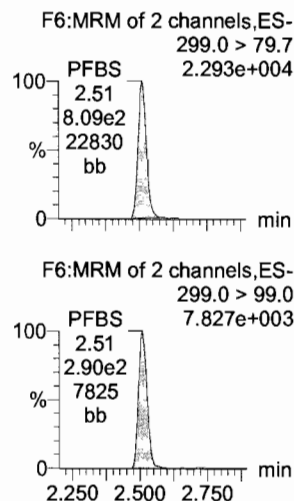
### PFBA



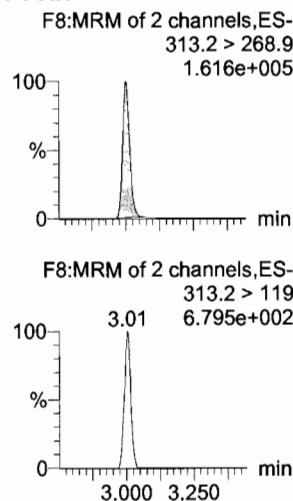
### PFPeA



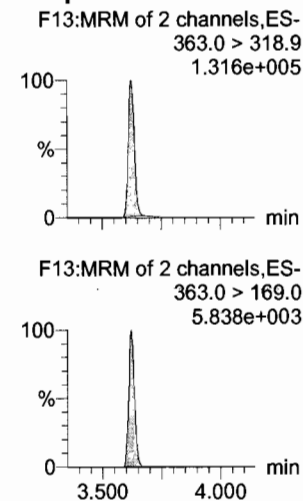
### PFBS



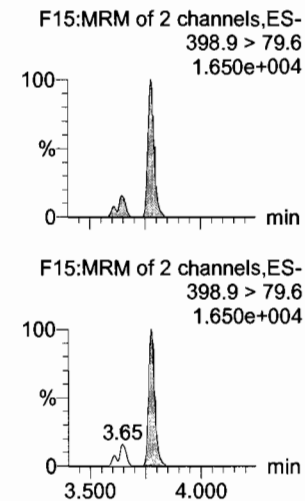
### PFHxA



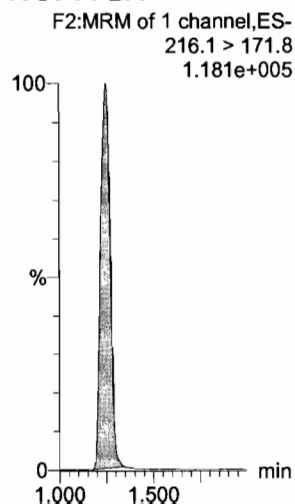
### PFHpA



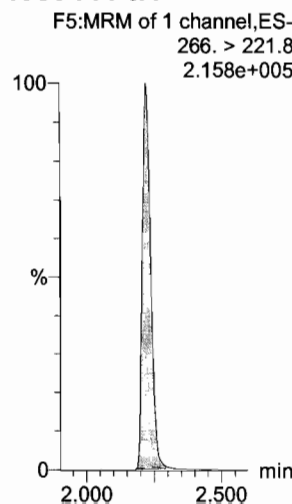
### L-PFHxS



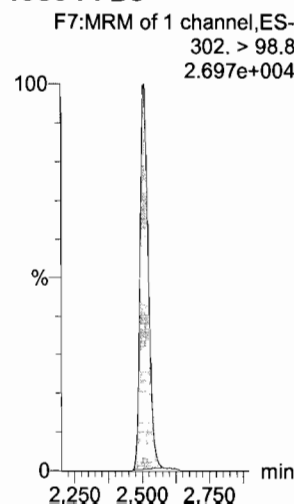
### 13C3-PFBA



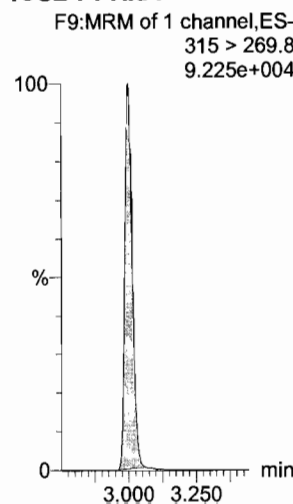
### 13C3-PFPeA



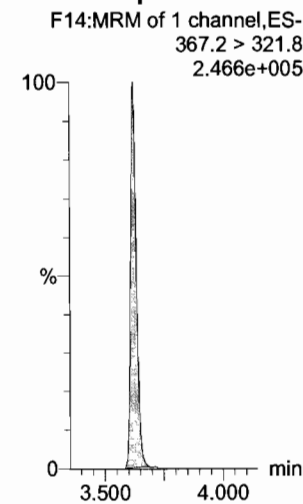
### 13C3-PFBS



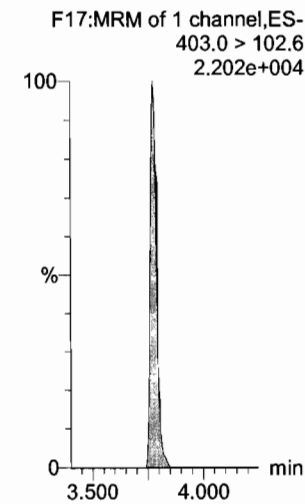
### 13C2-PFHxA



### 13C4-PFHpA



### 18O2-PFHxS



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

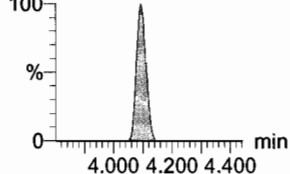
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### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.890e+004

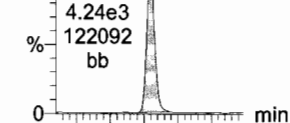


F21:MRM of 2 channels,ES-  
427.1 > 80  
7.650e+003

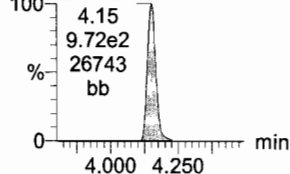


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
1.231e+005

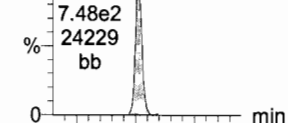


F18:MRM of 2 channels,ES-  
413 > 169  
2.681e+004

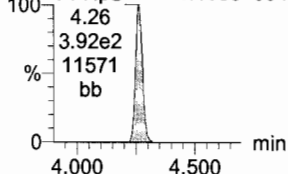


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
2.428e+004

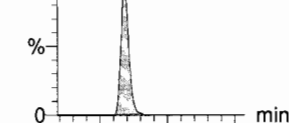


F23:MRM of 2 channels,ES-  
449 > 98.7  
1.158e+004

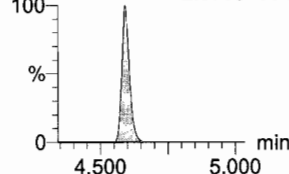


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
1.420e+005

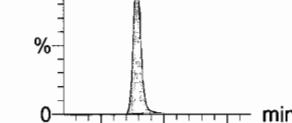


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
2.579e+004

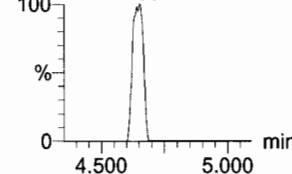


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
3.265e+004

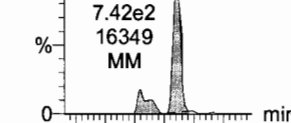


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.551e+002

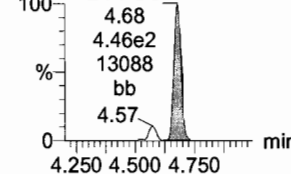


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
1.635e+004

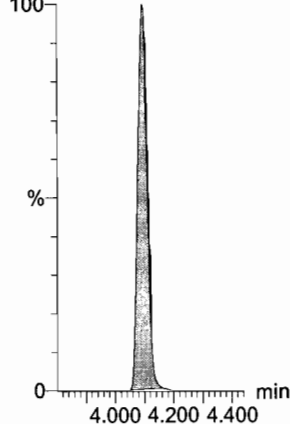


F29:MRM of 2 channels,ES-  
499 > 99  
1.312e+004



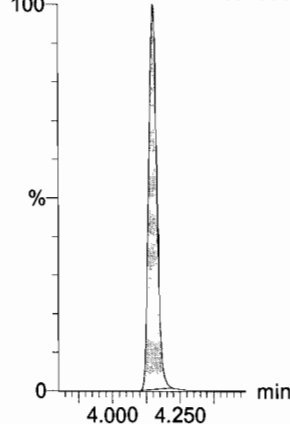
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
5.544e+004



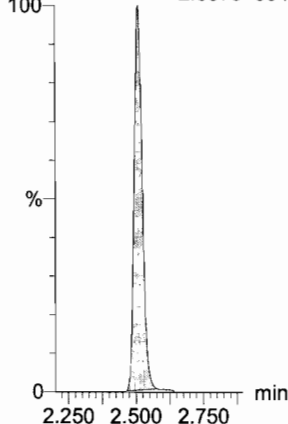
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.776e+005



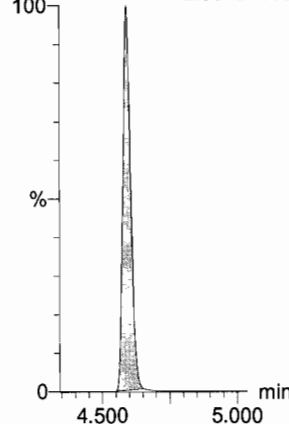
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.697e+004



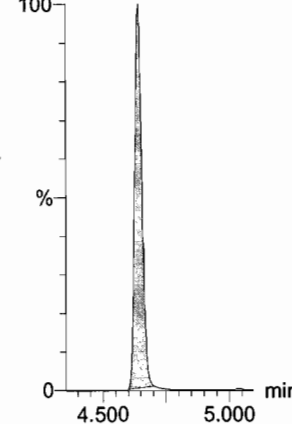
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.564e+005



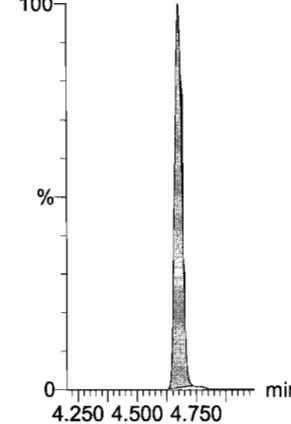
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
7.898e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.017e+004





Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

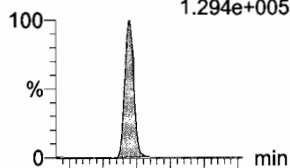
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

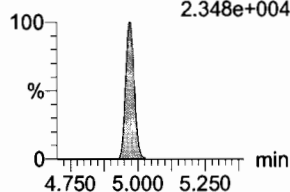
Name: 171026M1\_6, Date: 26-Oct-2017, Time: 10:11:00, ID: ST171026M1-5 PFC CS2 17J2519, Description: PFC CS2 17J2519

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.294e+005

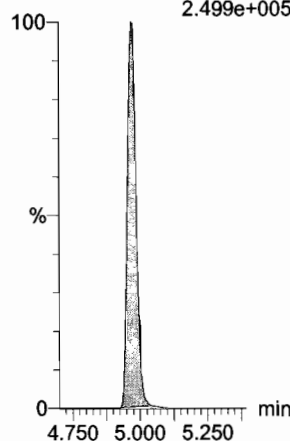


F34:MRM of 2 channels,ES-  
513 > 219  
2.348e+004



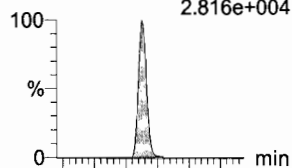
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.499e+005

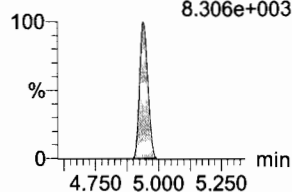


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
2.816e+004

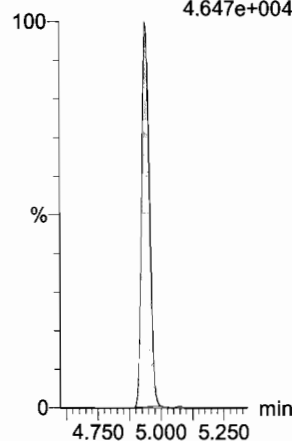


F39:MRM of 2 channels,ES-  
527 > 80  
8.306e+003



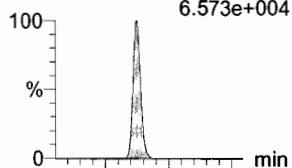
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.647e+004

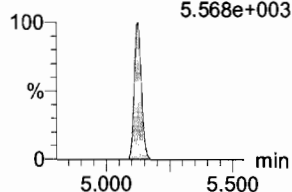


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
6.573e+004

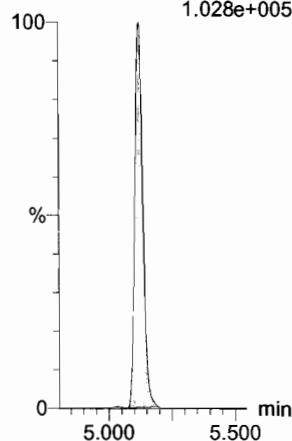


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
5.568e+003



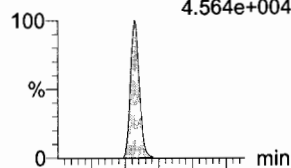
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.028e+005

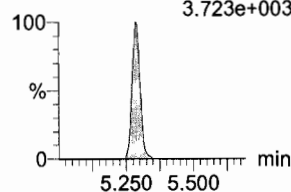


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
4.564e+004

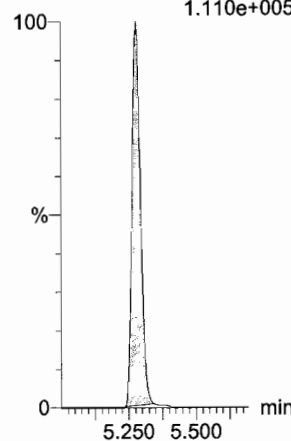


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
3.723e+003



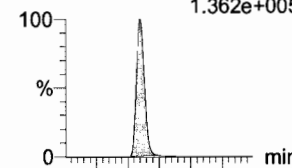
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.110e+005

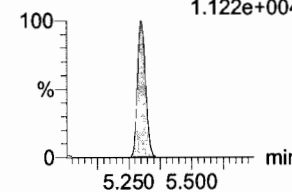


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
1.362e+005

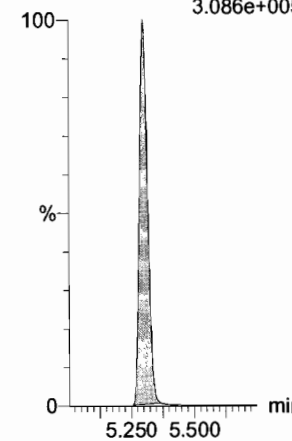


F42:MRM of 2 channels,ES-  
563.0 > 269  
1.122e+004



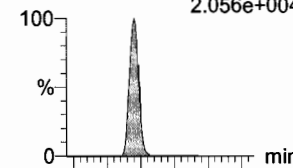
**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.086e+005

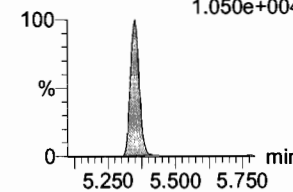


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
2.056e+004

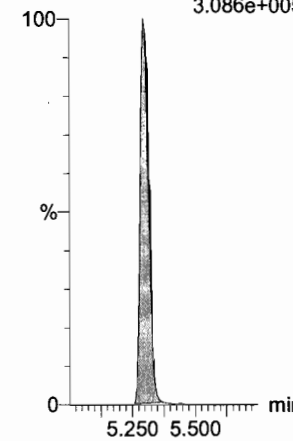


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
1.050e+004



**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.086e+005

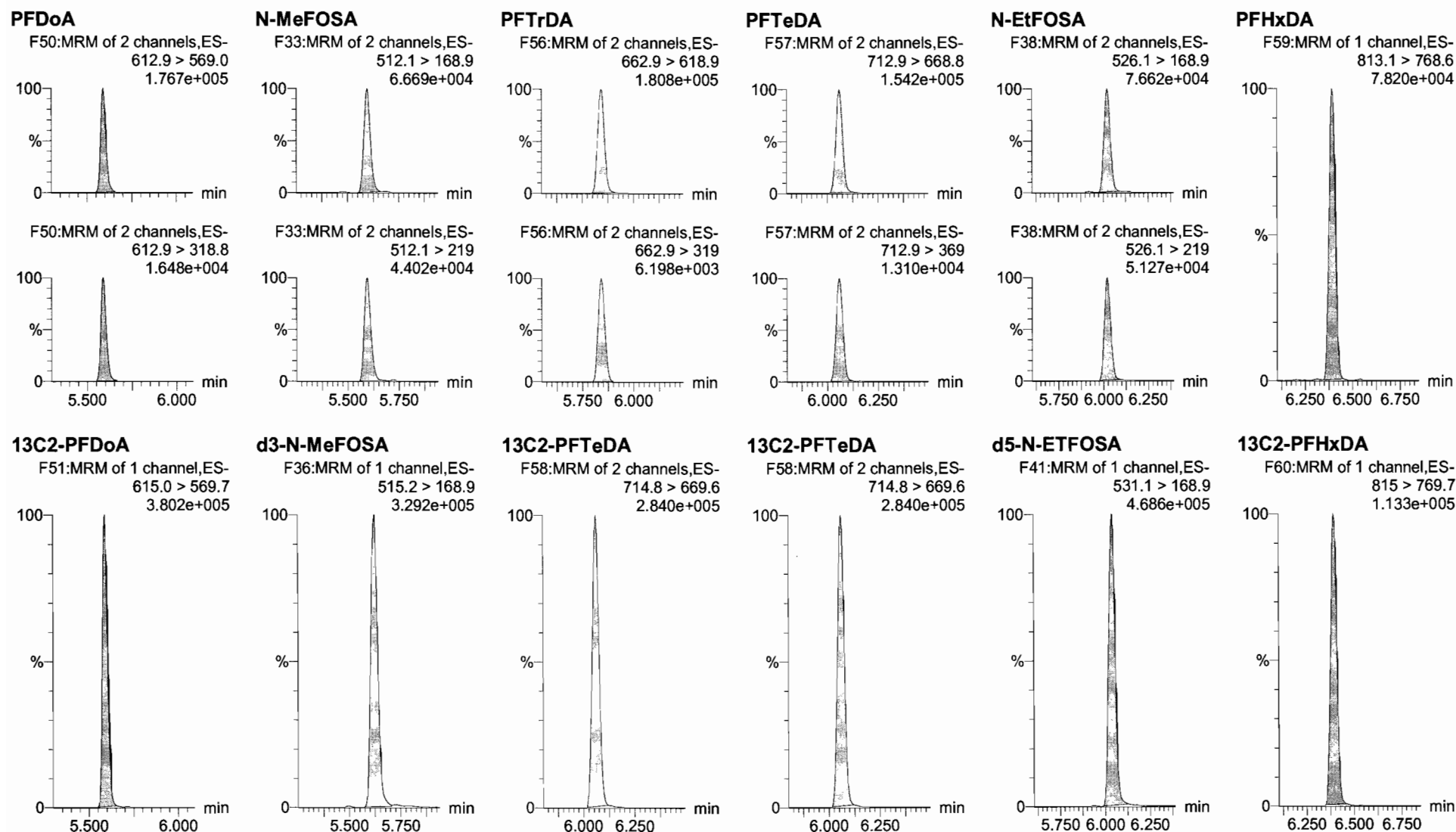


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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_6, Date: 26-Oct-2017, Time: 10:11:00, ID: ST171026M1-5 PFC CS2 17J2519, Description: PFC CS2 17J2519



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

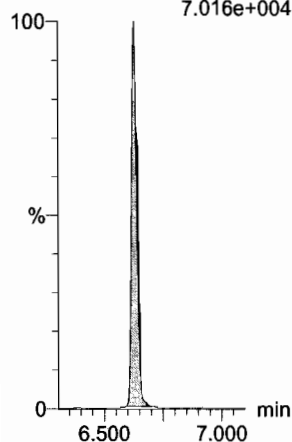
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_6, Date: 26-Oct-2017, Time: 10:11:00, ID: ST171026M1-5 PFC CS2 17J2519, Description: PFC CS2 17J2519

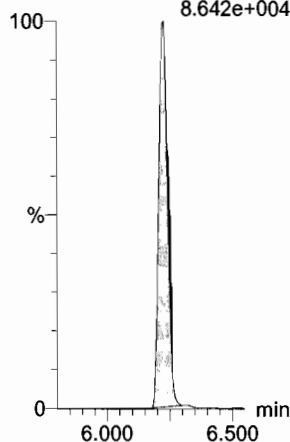
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
7.016e+004



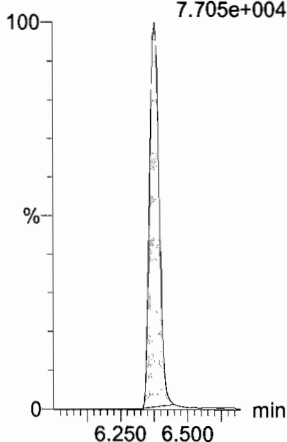
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
8.642e+004



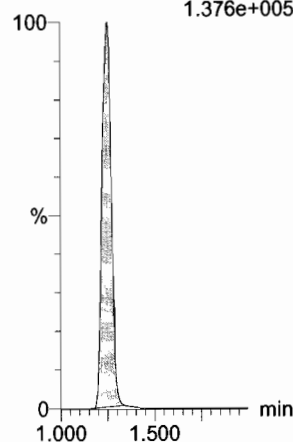
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
7.705e+004



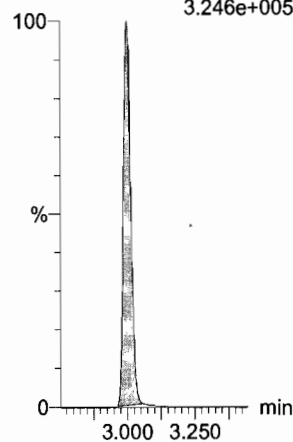
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.376e+005



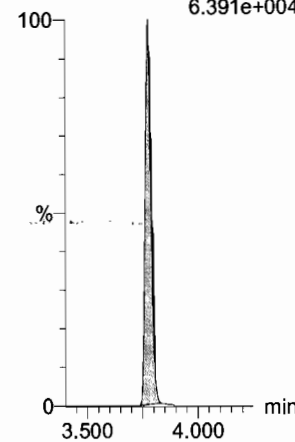
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
3.246e+005



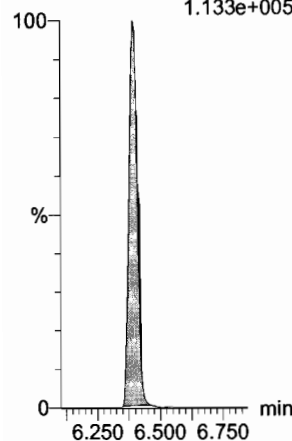
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
6.391e+004



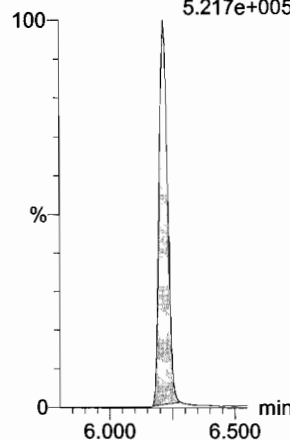
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.133e+005



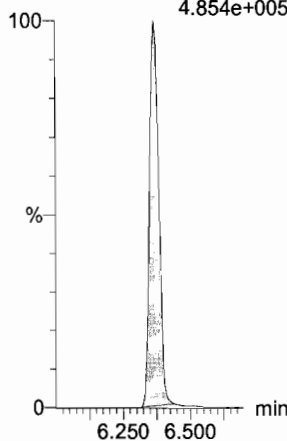
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
5.217e+005



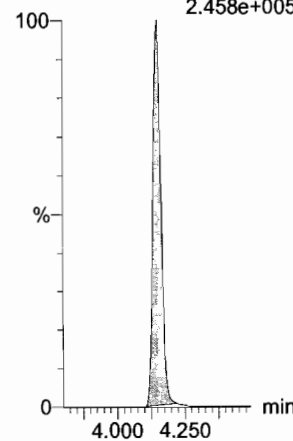
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
4.854e+005



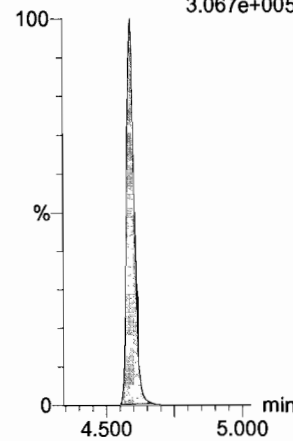
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
2.458e+005



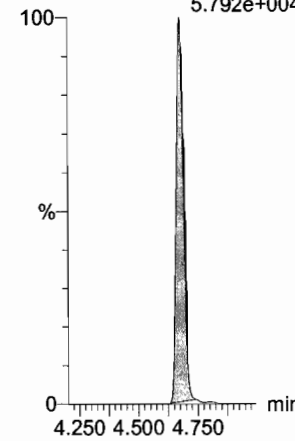
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.067e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.792e+004



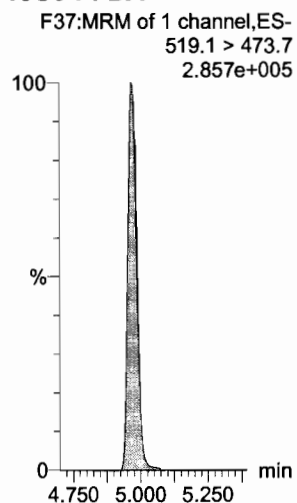
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

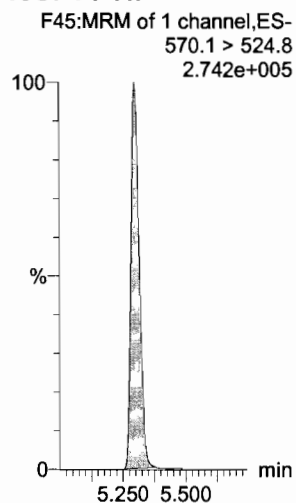
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_6, Date: 26-Oct-2017, Time: 10:11:00, ID: ST171026M1-5 PFC CS2 17J2519, Description: PFC CS2 17J2519

13C6-PFDA



13C7-PFUnA



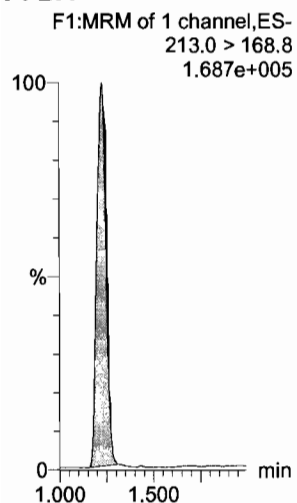
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

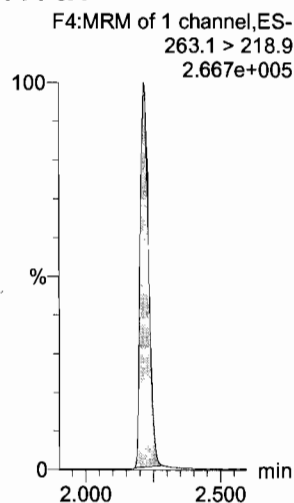
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_7, Date: 26-Oct-2017, Time: 10:22:11, ID: ST171026M1-6 PFC CS3 17J1806, Description: PFC CS3 17J1806

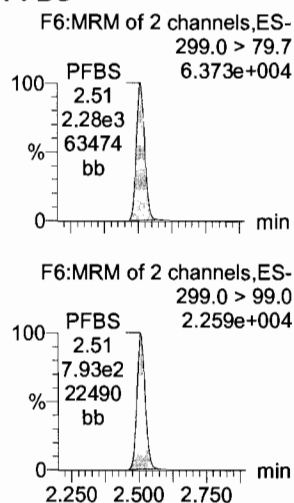
**PFBA**



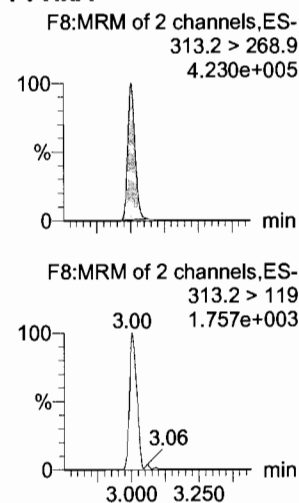
**PFPeA**



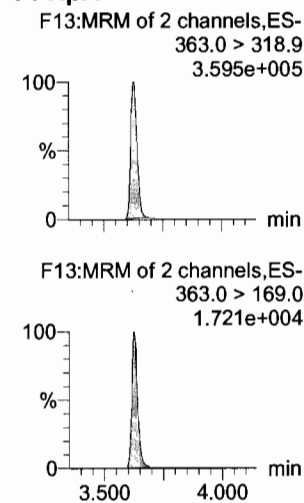
**PFBS**



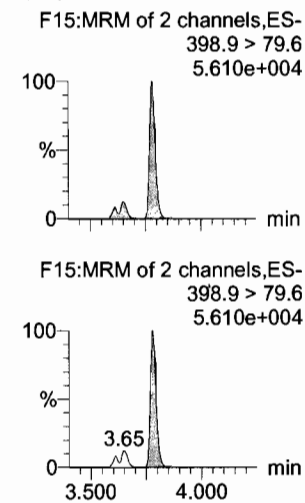
**PFHxA**



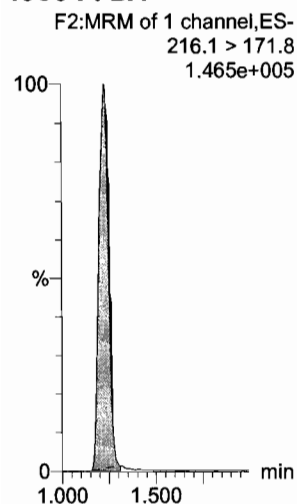
**PFHpA**



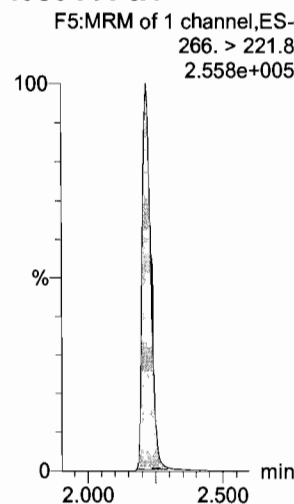
**L-PFHxS**



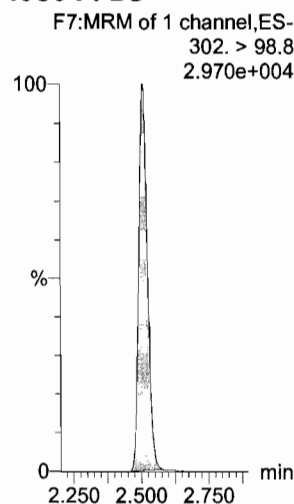
**13C3-PFBA**



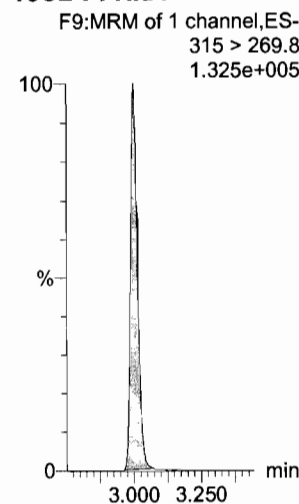
**13C3-PFPeA**



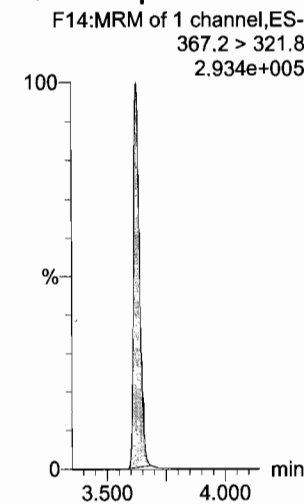
**13C3-PFBS**



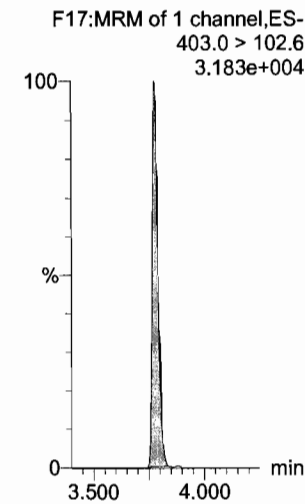
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

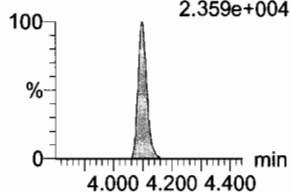
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### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
6.718e+004

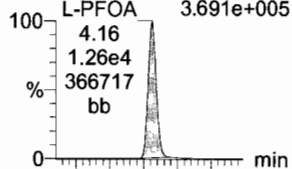


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.359e+004

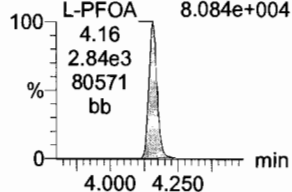


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
3.691e+005

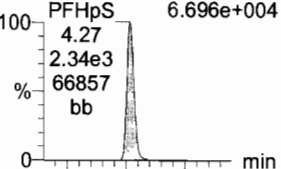


F18:MRM of 2 channels,ES-  
413 > 169  
8.084e+004

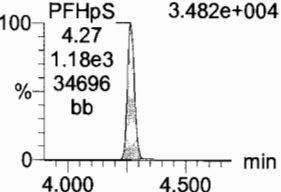


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
6.696e+004

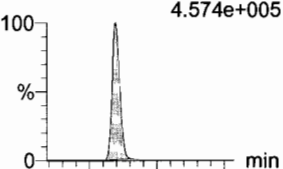


F23:MRM of 2 channels,ES-  
449 > 98.7  
3.482e+004

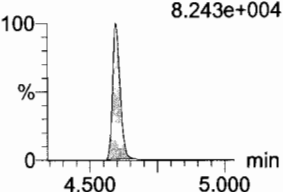


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.574e+005

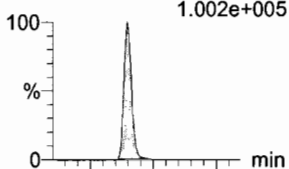


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
8.243e+004

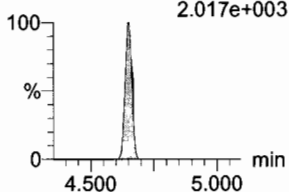


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.002e+005

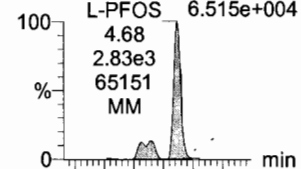


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.017e+003

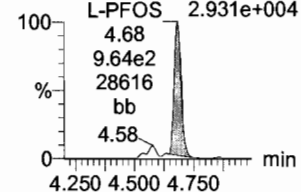


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
6.515e+004

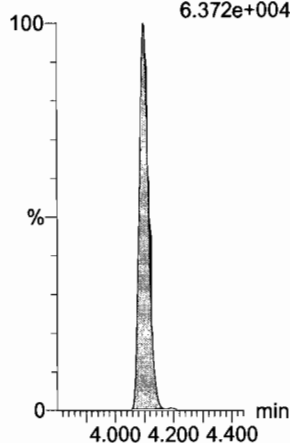


F29:MRM of 2 channels,ES-  
499 > 99  
2.931e+004



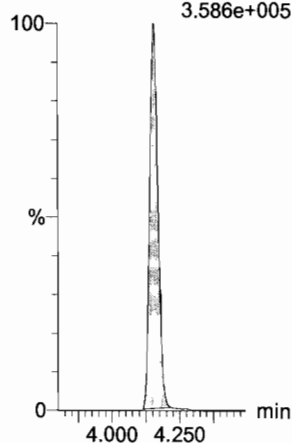
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
6.372e+004



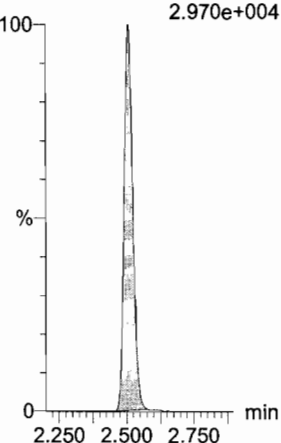
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.586e+005



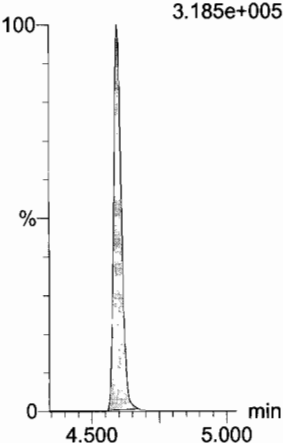
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.970e+004



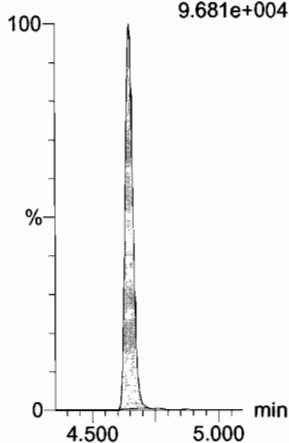
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.185e+005



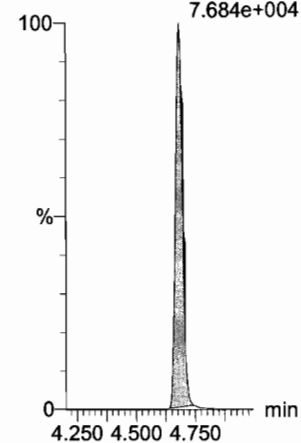
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
9.681e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
7.684e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

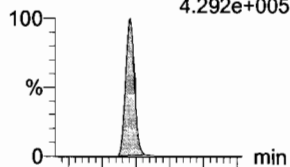
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

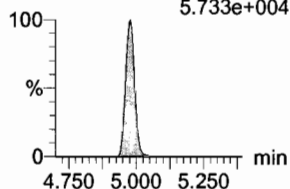
Name: 171026M1\_7, Date: 26-Oct-2017, Time: 10:22:11, ID: ST171026M1-6 PFC CS3 17J1806, Description: PFC CS3 17J1806

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
4.292e+005

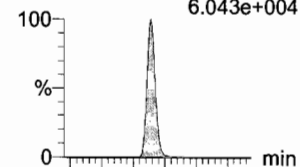


F34:MRM of 2 channels,ES-  
513 > 219  
5.733e+004

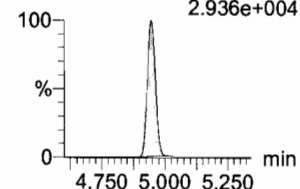


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
6.043e+004



F39:MRM of 2 channels,ES-  
527 > 80  
2.936e+004

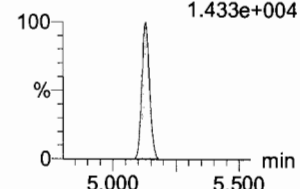


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
2.195e+005



F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.433e+004

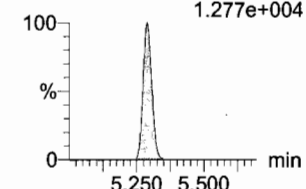


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.685e+005

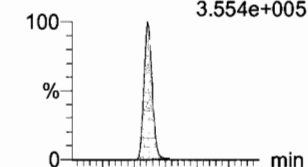


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.277e+004

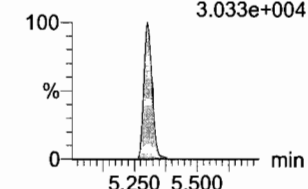


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
3.554e+005

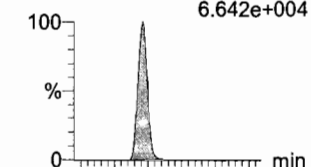


F42:MRM of 2 channels,ES-  
563.0 > 269  
3.033e+004

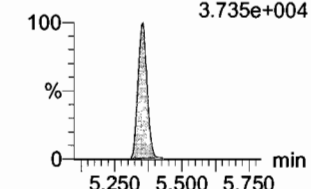


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
6.642e+004

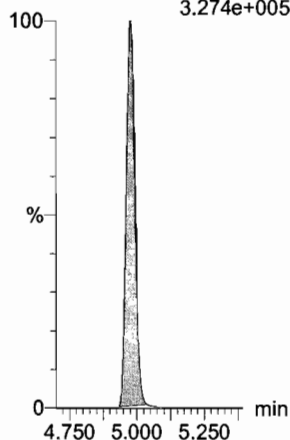


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
3.735e+004



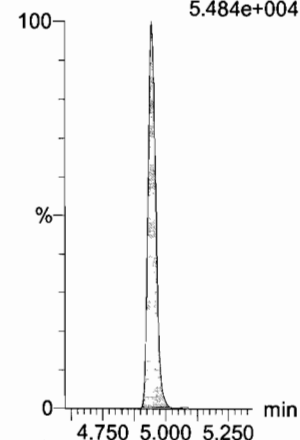
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
3.274e+005



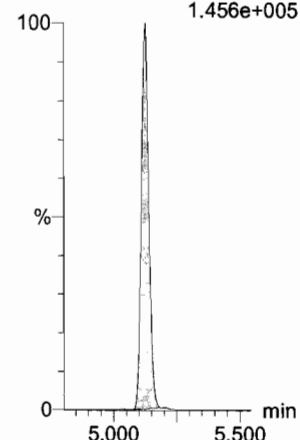
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
5.484e+004



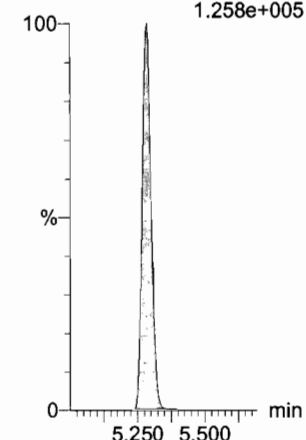
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.456e+005



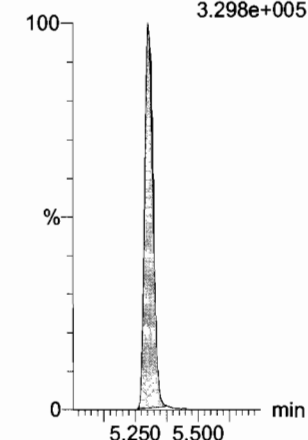
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.258e+005



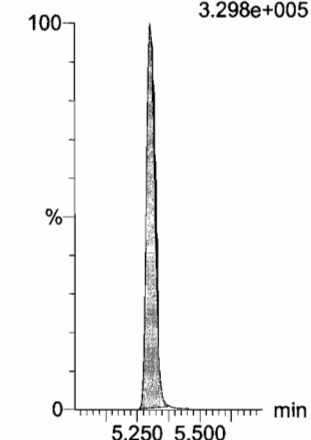
**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.298e+005



**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.298e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

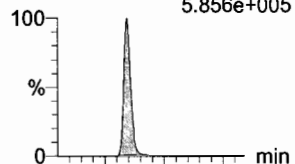
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

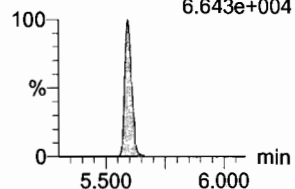
Name: 171026M1\_7, Date: 26-Oct-2017, Time: 10:22:11, ID: ST171026M1-6 PFC CS3 17J1806, Description: PFC CS3 17J1806

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

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
5.856e+005

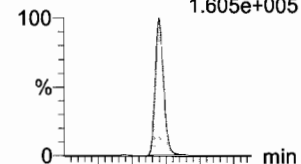


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
6.643e+004

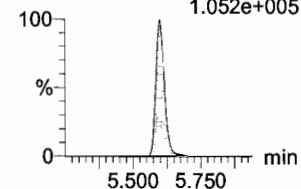


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
1.605e+005

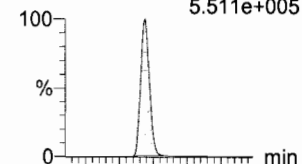


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.052e+005

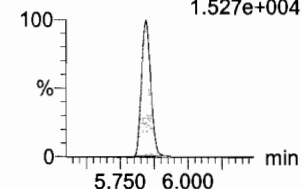


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
5.511e+005

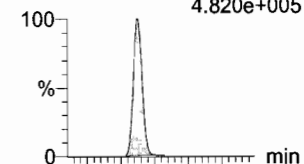


F56:MRM of 2 channels,ES-  
662.9 > 319  
1.527e+004

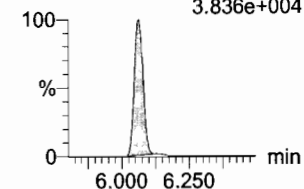


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
4.820e+005

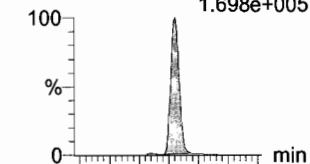


F57:MRM of 2 channels,ES-  
712.9 > 369  
3.836e+004

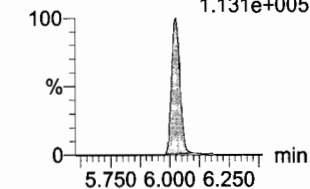


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
1.698e+005

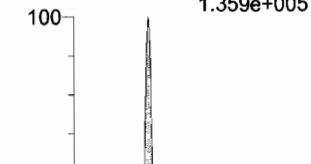


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.131e+005

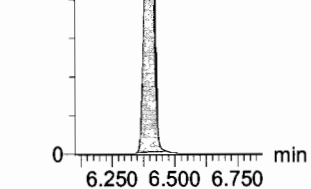


**PFH<sub>x</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
1.359e+005

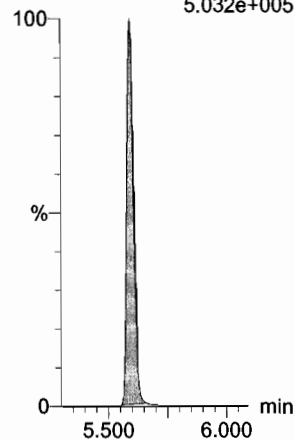


F59:MRM of 1 channel,ES-  
813.1 > 768.6  
1.359e+005



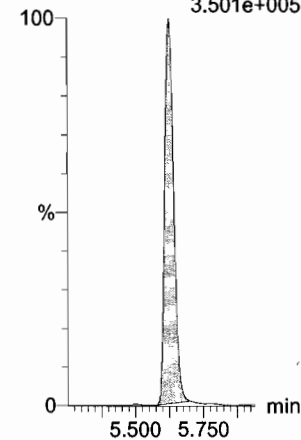
**13C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
5.032e+005



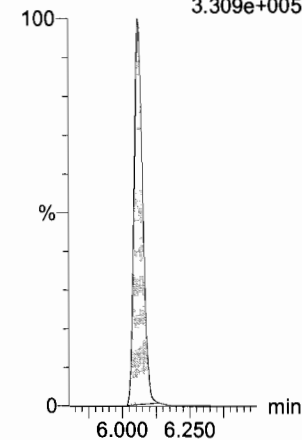
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.501e+005



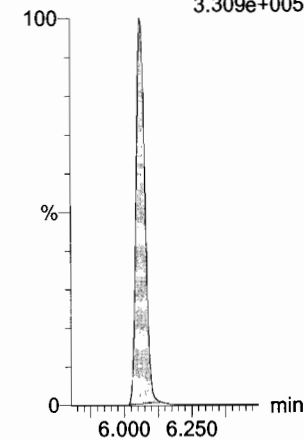
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
3.309e+005



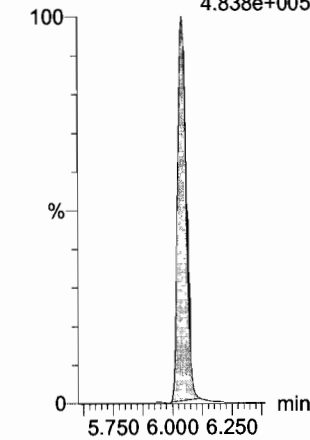
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
3.309e+005



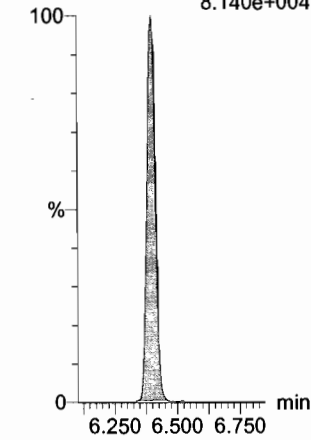
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.838e+005



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

F60:MRM of 1 channel,ES-  
815 > 769.7  
8.140e+004





Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

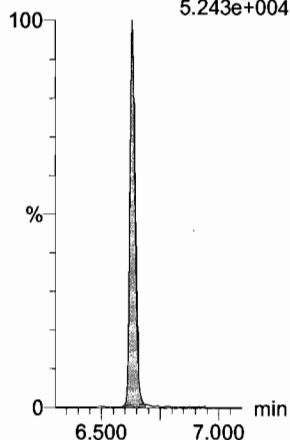
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_7, Date: 26-Oct-2017, Time: 10:22:11, ID: ST171026M1-6 PFC CS3 17J1806, Description: PFC CS3 17J1806

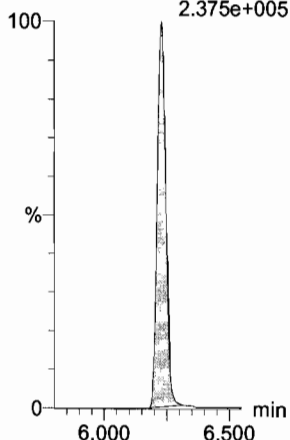
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
5.243e+004



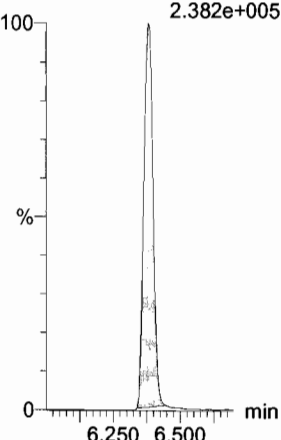
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.375e+005



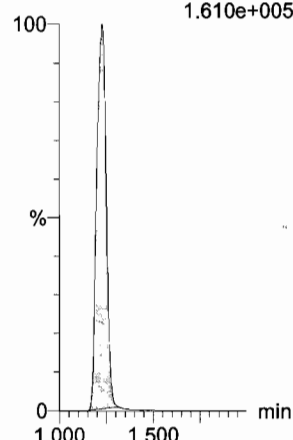
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
2.382e+005



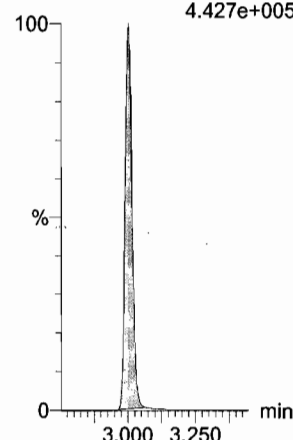
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.610e+005



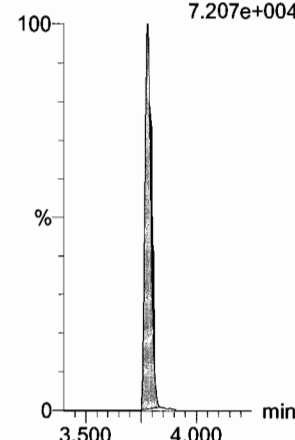
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.427e+005



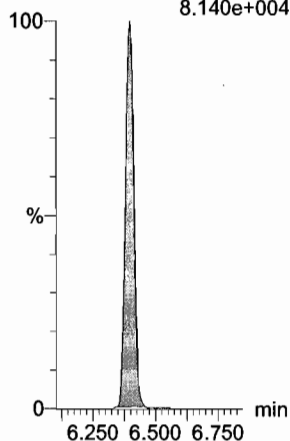
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
7.207e+004



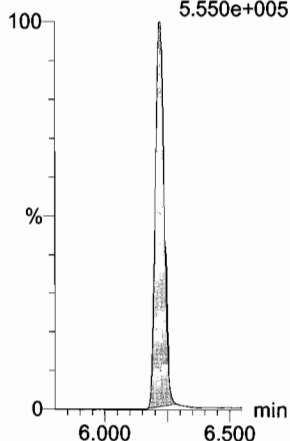
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
8.140e+004



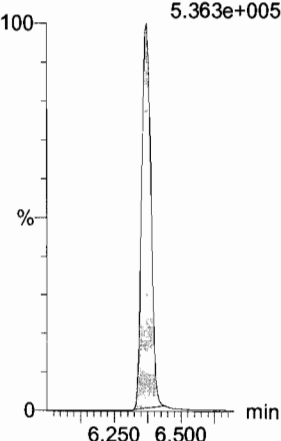
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
5.550e+005



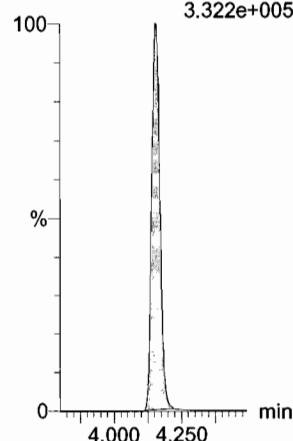
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
5.363e+005



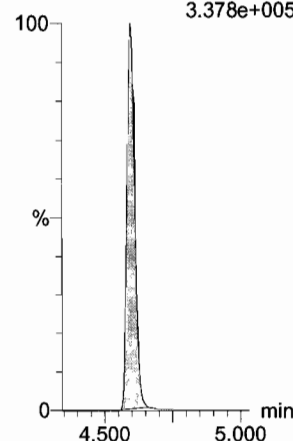
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
3.322e+005



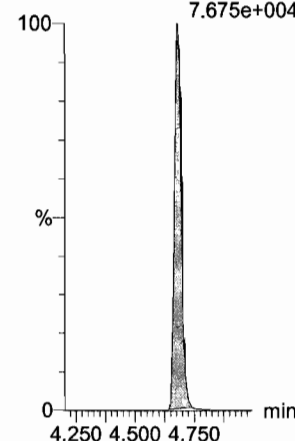
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.378e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
7.675e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

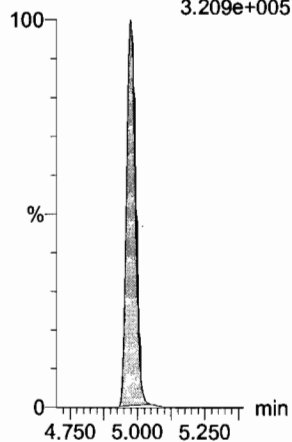
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_7, Date: 26-Oct-2017, Time: 10:22:11, ID: ST171026M1-6 PFC CS3 17J1806, Description: PFC CS3 17J1806

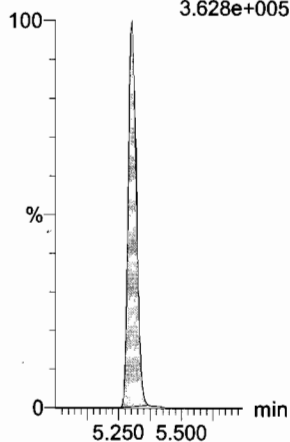
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.209e+005



13C7-PFUnA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.628e+005



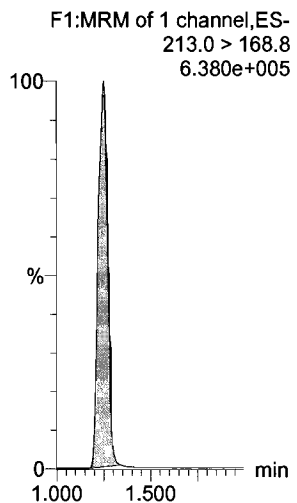
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

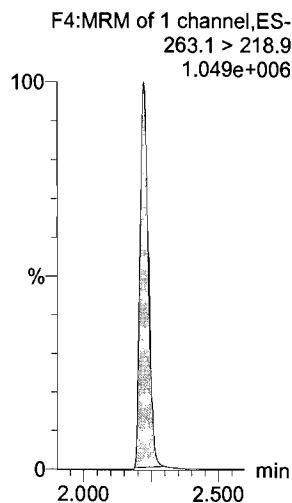
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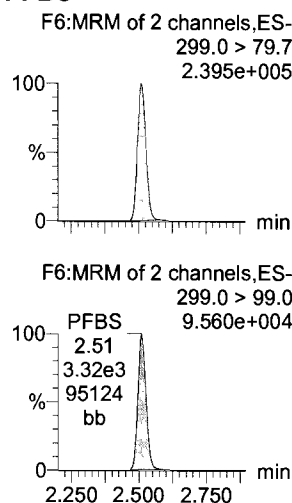
**PFBA**



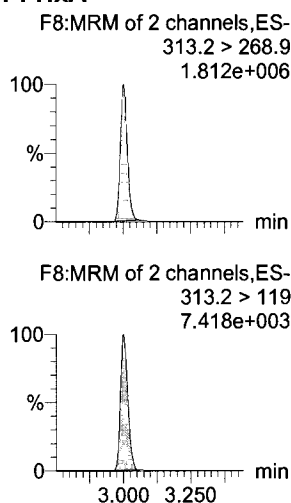
**PFPeA**



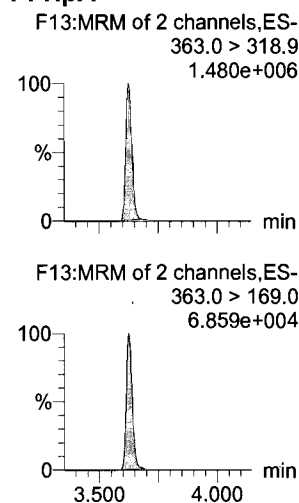
**PFBS**



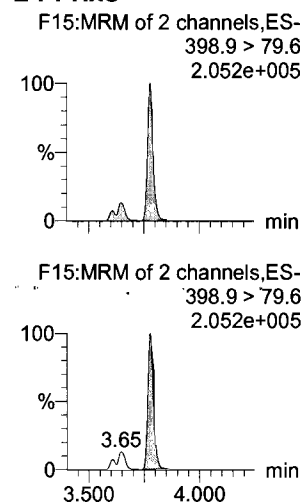
**PFHxA**



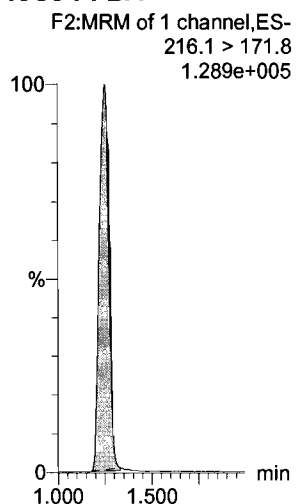
**PFHpA**



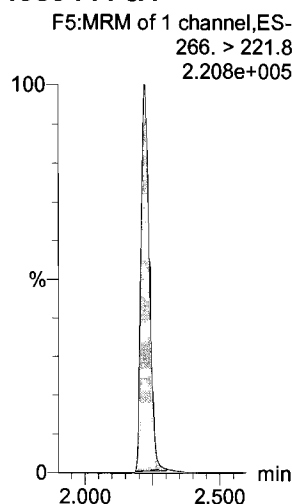
**L-PFHxS**



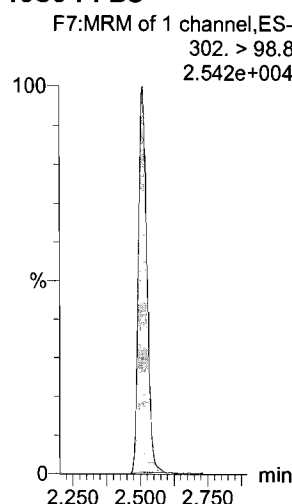
**13C3-PFBA**



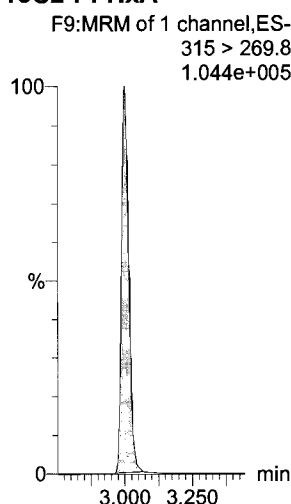
**13C3-PFPeA**



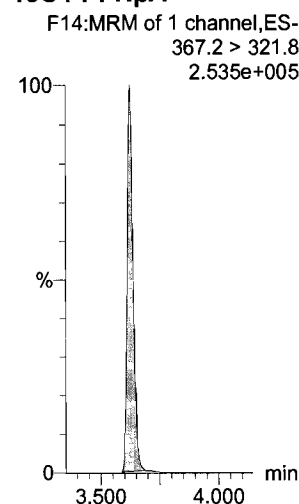
**13C3-PFBS**



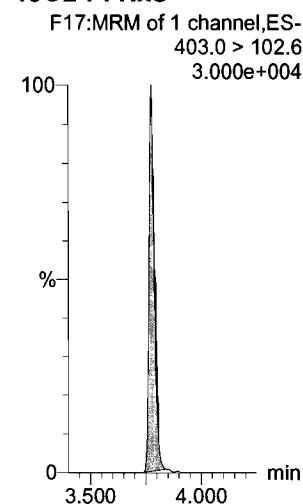
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

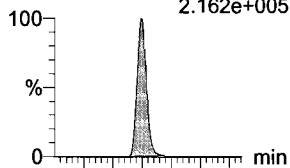
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Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

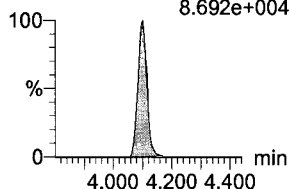
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**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
2.162e+005

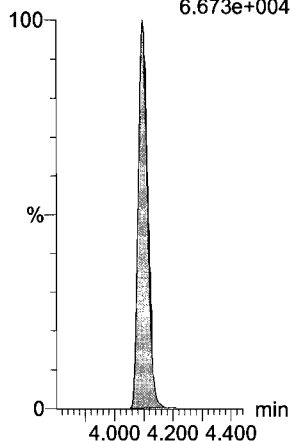


F21:MRM of 2 channels,ES-  
427.1 > 80  
8.692e+004



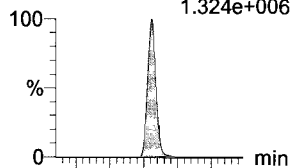
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
6.673e+004

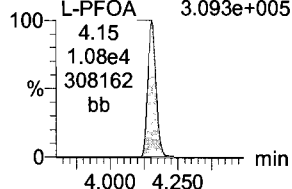


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
1.324e+006

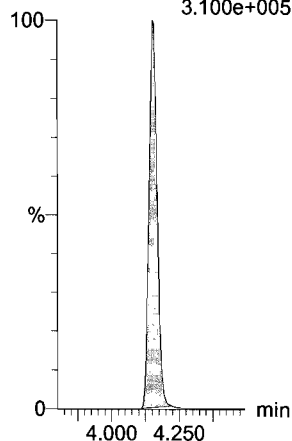


F18:MRM of 2 channels,ES-  
413 > 169  
3.093e+005



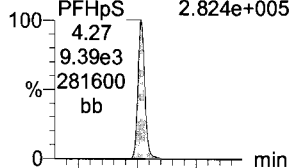
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.100e+005

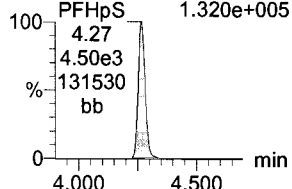


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
2.824e+005

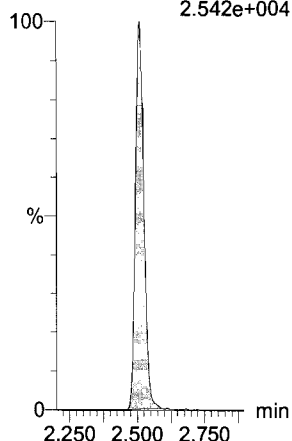


F23:MRM of 2 channels,ES-  
449 > 98.7  
1.320e+005



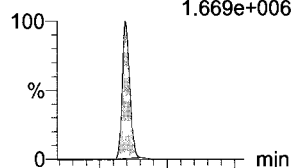
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.542e+004

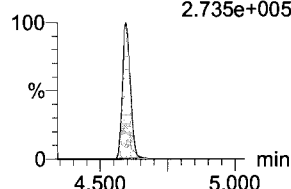


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
1.669e+006

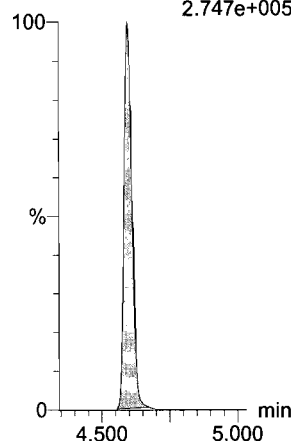


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
2.735e+005



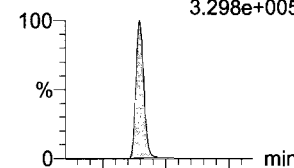
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.747e+005

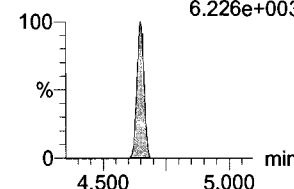


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
3.298e+005

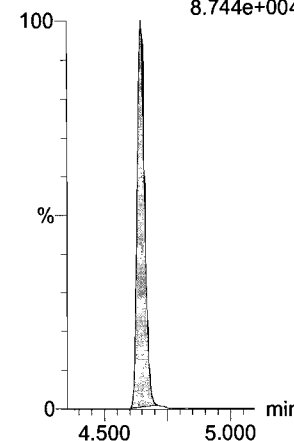


F27:MRM of 2 channels,ES-  
498.1 > 478  
6.226e+003



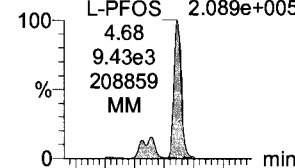
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
8.744e+004

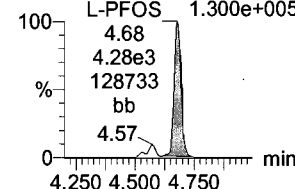


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
2.089e+005

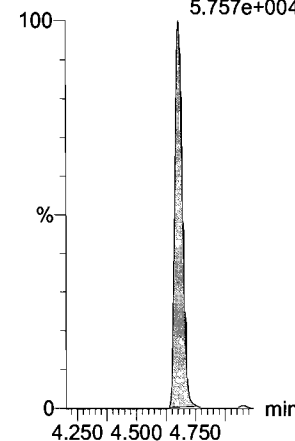


F29:MRM of 2 channels,ES-  
499 > 99  
1.300e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
5.757e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

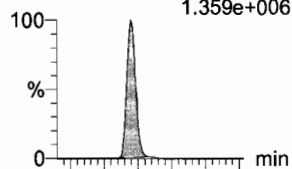
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

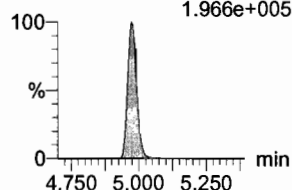
Name: 171026M1\_8, Date: 26-Oct-2017, Time: 10:33:24, ID: ST171026M1-7 PFC CS4 17J2102, Description: PFC CS4 17J2102

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.359e+006

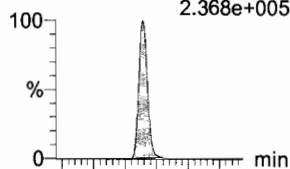


F34:MRM of 2 channels,ES-  
513 > 219  
1.966e+005

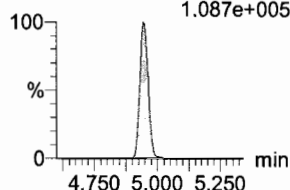


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
2.368e+005

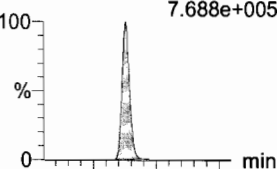


F39:MRM of 2 channels,ES-  
527 > 80  
1.087e+005

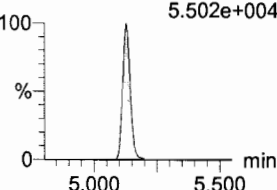


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
7.688e+005

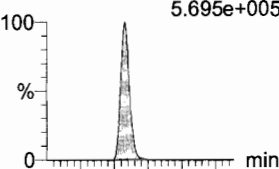


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
5.502e+004

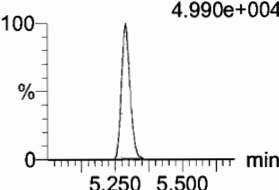


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
5.695e+005



F47:MRM of 2 channels,ES-  
584.2 > 483.0  
4.990e+004

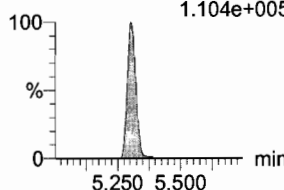


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
1.539e+006

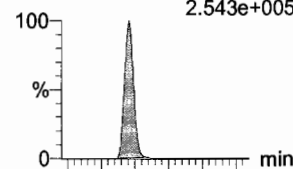


F42:MRM of 2 channels,ES-  
563.0 > 269  
1.104e+005

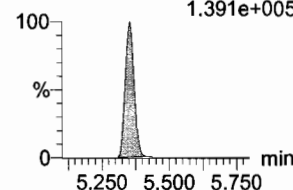


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
2.543e+005

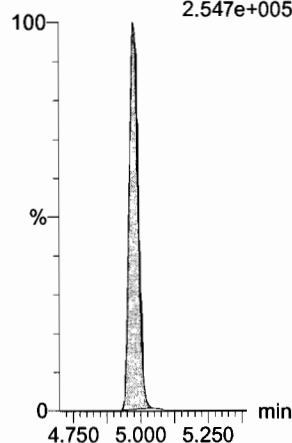


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
1.391e+005



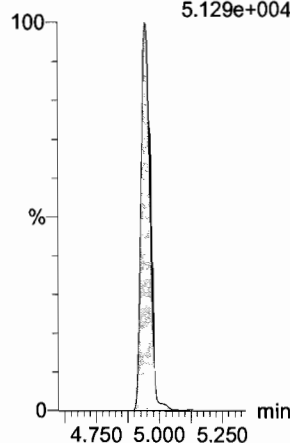
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.547e+005



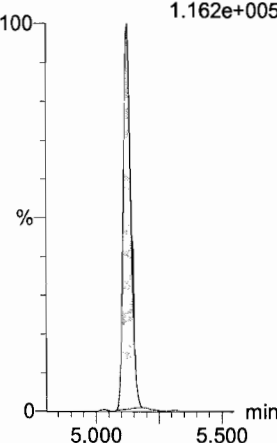
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
5.129e+004



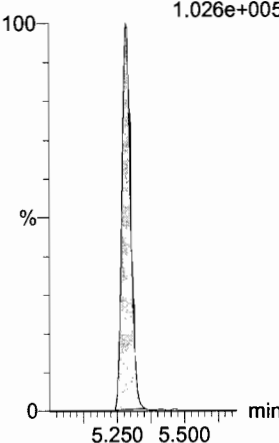
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.162e+005



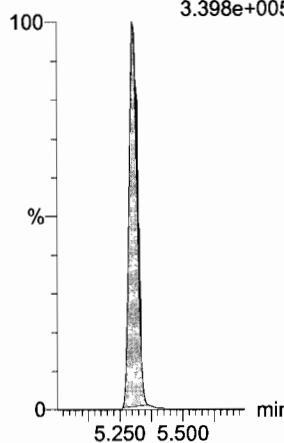
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.026e+005



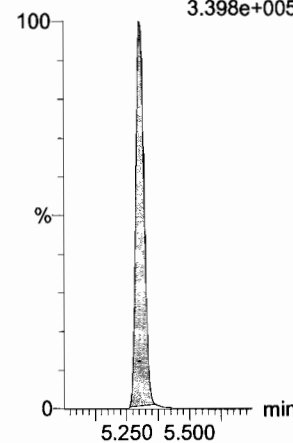
**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.398e+005



**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.398e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

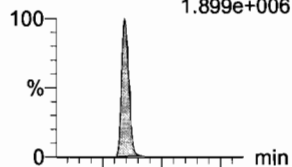
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

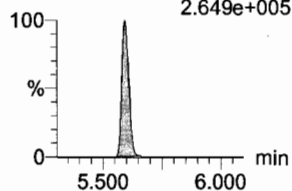
Name: 171026M1\_8, Date: 26-Oct-2017, Time: 10:33:24, ID: ST171026M1-7 PFC CS4 17J2102, Description: PFC CS4 17J2102

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

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
1.899e+006

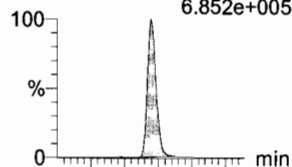


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
2.649e+005

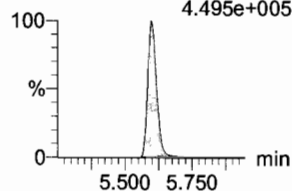


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
6.852e+005



F33:MRM of 2 channels,ES-  
512.1 > 219  
4.495e+005

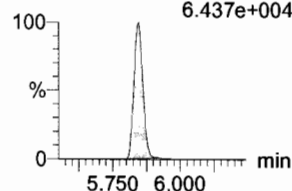


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
1.949e+006

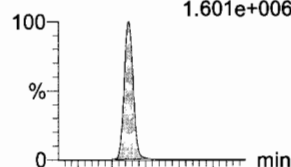


F56:MRM of 2 channels,ES-  
662.9 > 319  
6.437e+004

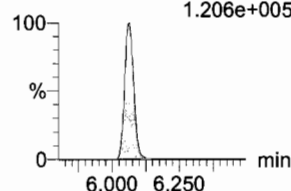


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
1.601e+006

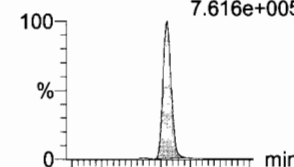


F57:MRM of 2 channels,ES-  
712.9 > 369  
1.206e+005

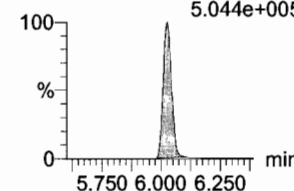


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
7.616e+005

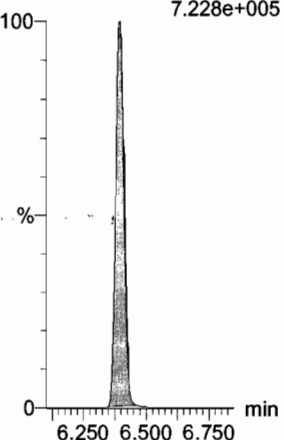


F38:MRM of 2 channels,ES-  
526.1 > 219  
5.044e+005



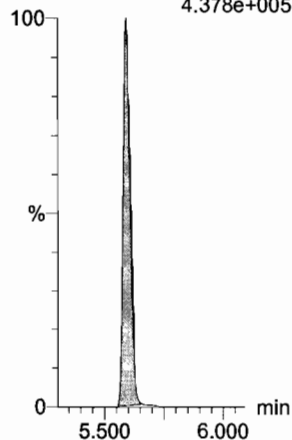
**PFH<sub>x</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
7.228e+005



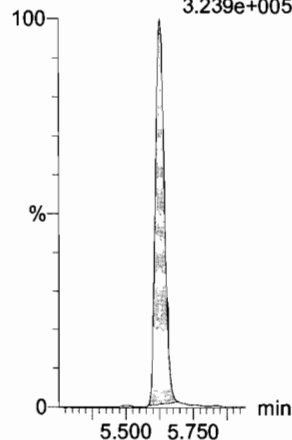
**13C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
4.378e+005



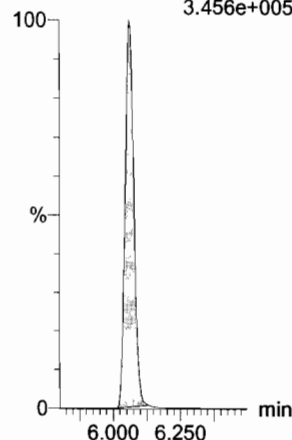
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.239e+005



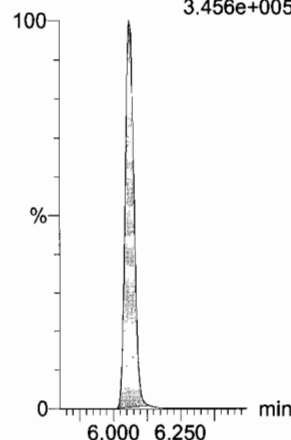
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
3.456e+005



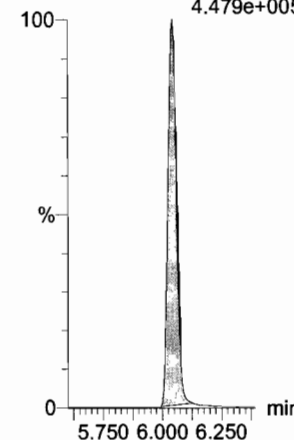
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
3.456e+005



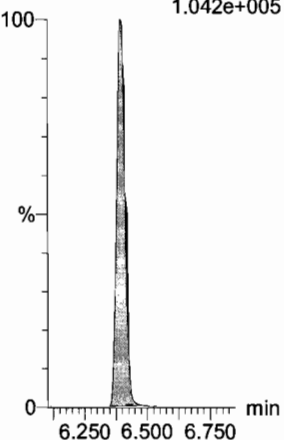
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.479e+005



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

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.042e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

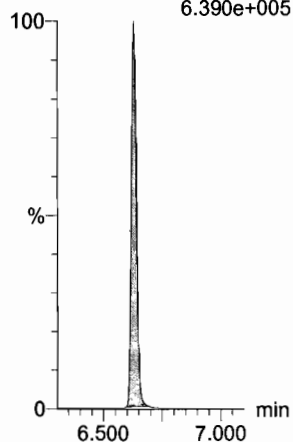
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_8, Date: 26-Oct-2017, Time: 10:33:24, ID: ST171026M1-7 PFC CS4 17J2102, Description: PFC CS4 17J2102

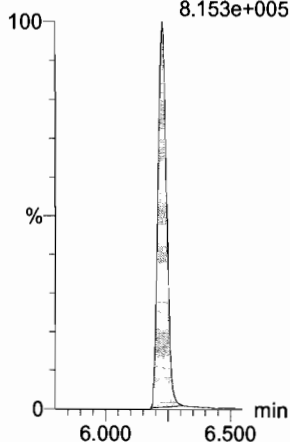
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
6.390e+005



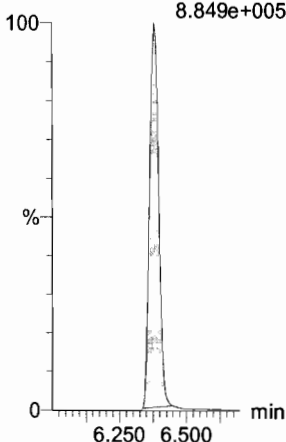
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
8.153e+005



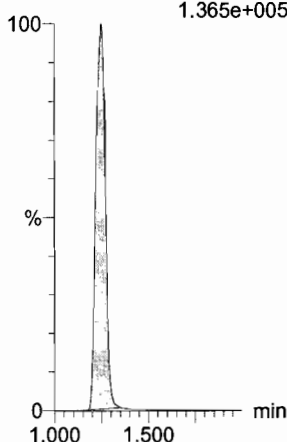
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
8.849e+005



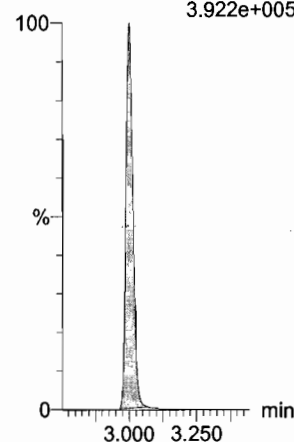
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.365e+005



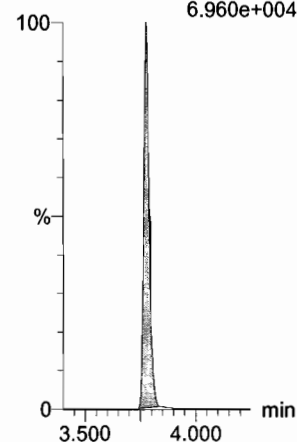
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
3.922e+005



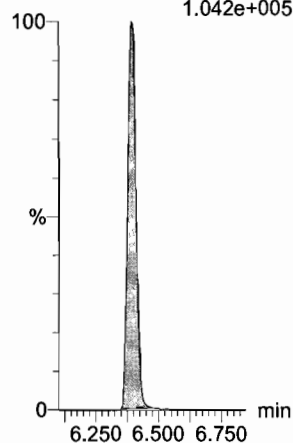
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
6.960e+004



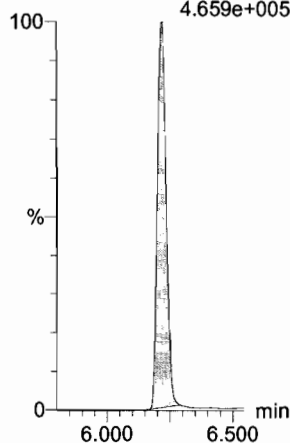
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.042e+005



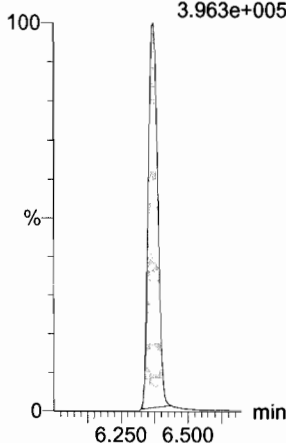
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
4.659e+005



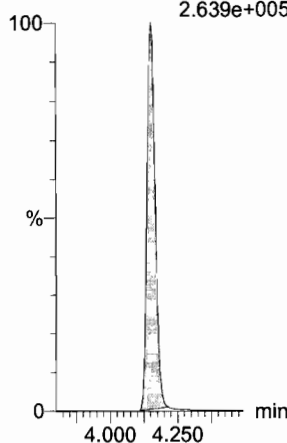
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
3.963e+005



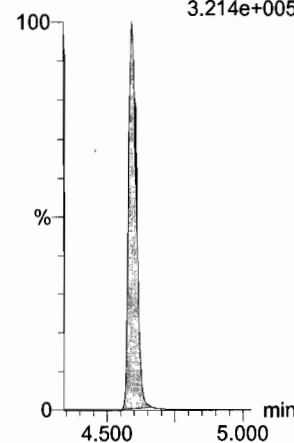
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
2.639e+005



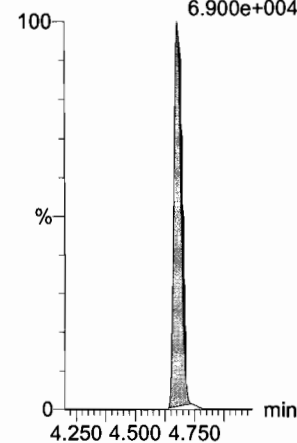
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.214e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
6.900e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

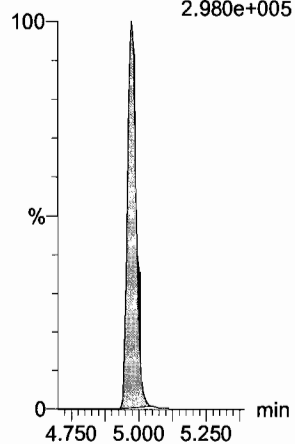
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_8, Date: 26-Oct-2017, Time: 10:33:24, ID: ST171026M1-7 PFC CS4 17J2102, Description: PFC CS4 17J2102

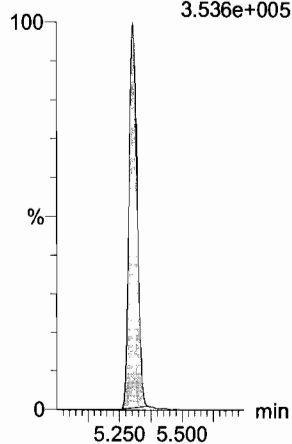
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.980e+005



**13C7-PFUnA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.536e+005





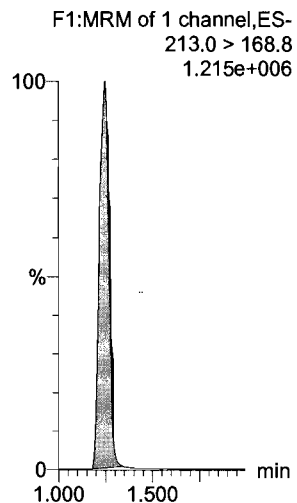
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

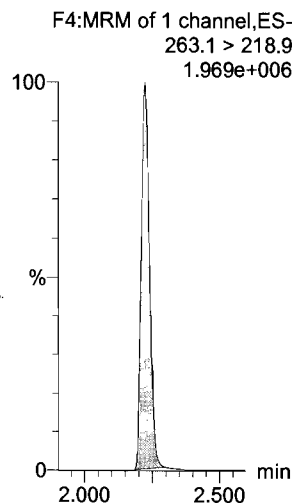
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

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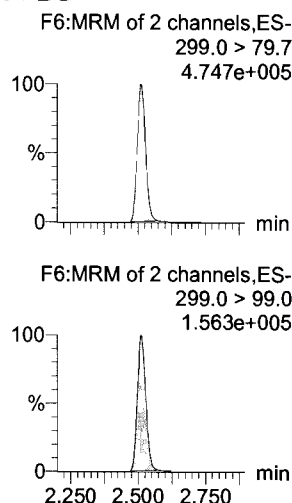
**PFBA**



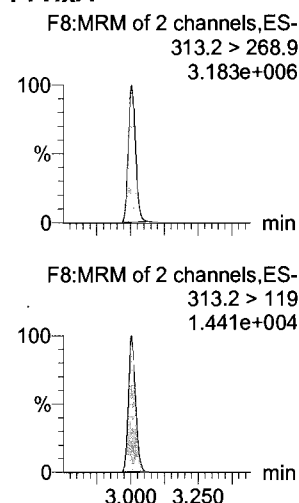
**PFPeA**



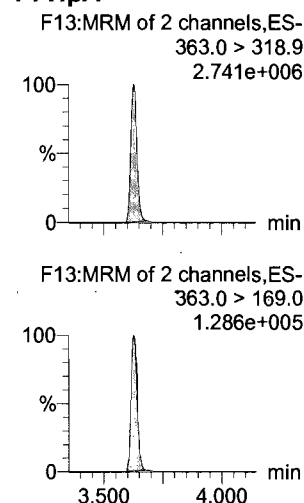
**PFBS**



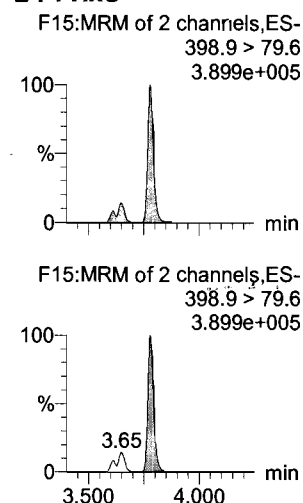
**PFHxA**



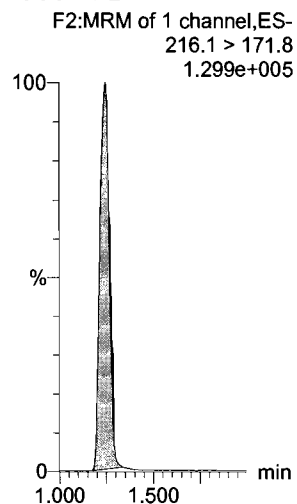
**PFHpA**



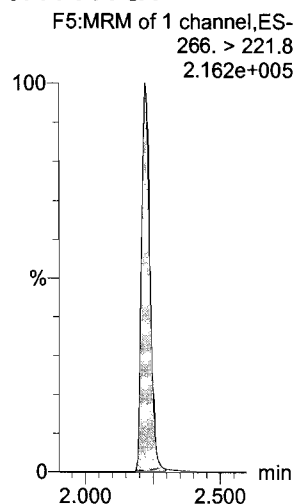
**L-PFHxS**



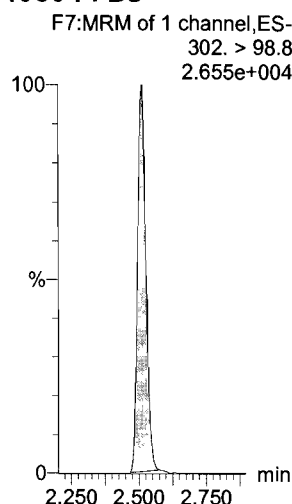
**13C3-PFBA**



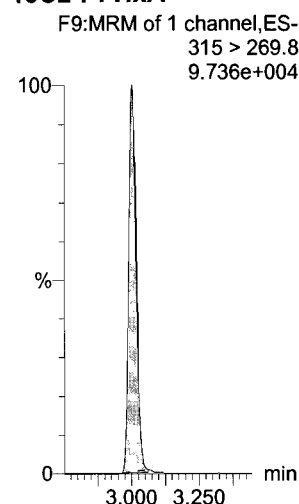
**13C3-PFPeA**



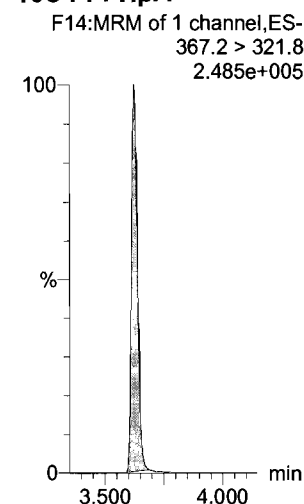
**13C3-PFBS**



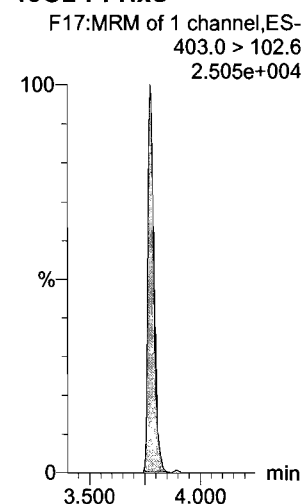
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

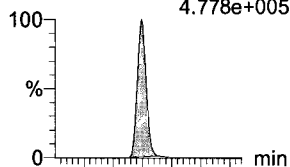
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

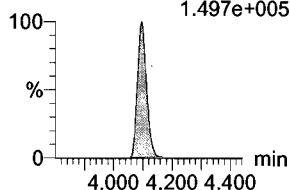
Name: 171026M1\_9, Date: 26-Oct-2017, Time: 10:44:36, ID: ST171026M1-8 PFC CS5 17J2101, Description: PFC CS5 17J2101

### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
4.778e+005



F21:MRM of 2 channels,ES-  
427.1 > 80  
1.497e+005

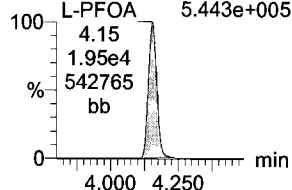


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
2.442e+006

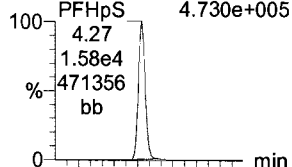


F18:MRM of 2 channels,ES-  
413 > 169  
5.443e+005

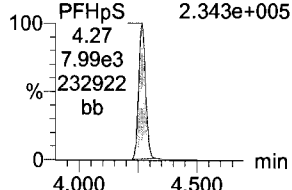


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
4.730e+005

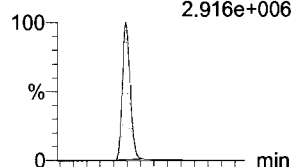


F23:MRM of 2 channels,ES-  
449 > 98.7  
2.343e+005

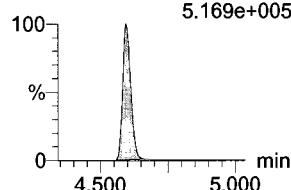


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
2.916e+006

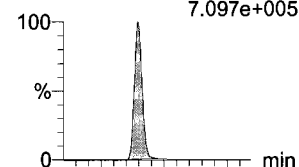


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
5.169e+005

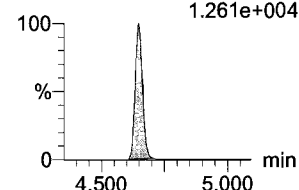


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
7.097e+005

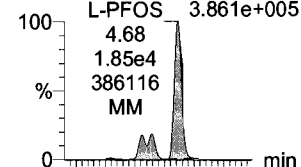


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.261e+004

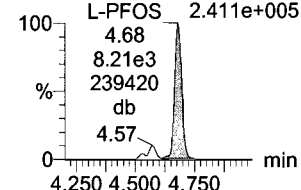


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
3.861e+005

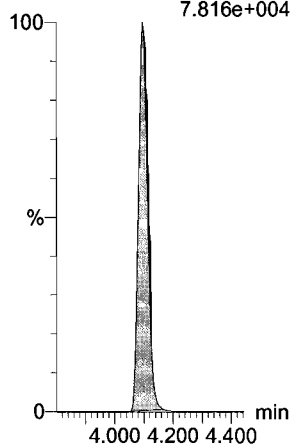


F29:MRM of 2 channels,ES-  
499 > 99  
2.411e+005



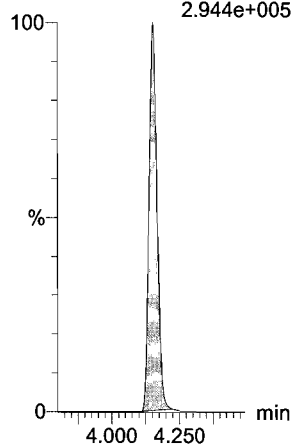
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
7.816e+004



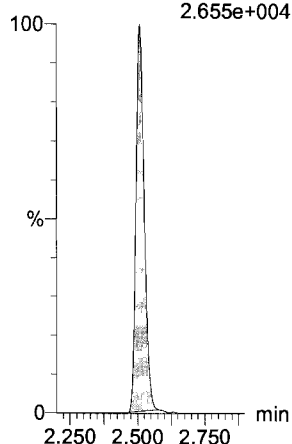
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.944e+005



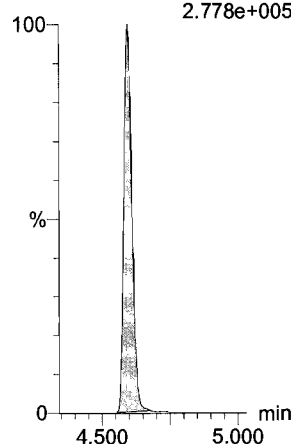
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.655e+004



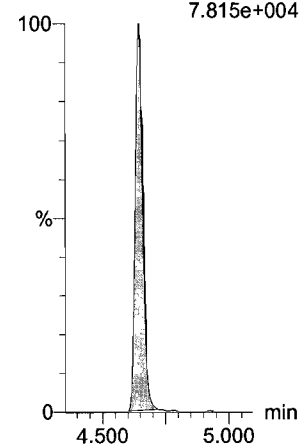
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.778e+005



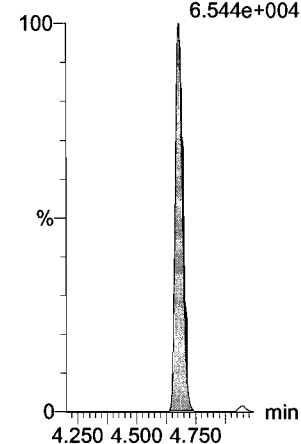
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
7.815e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.544e+004



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

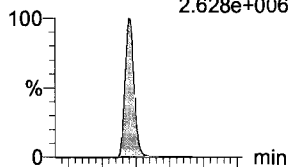
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

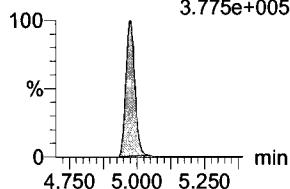
Name: 171026M1\_9, Date: 26-Oct-2017, Time: 10:44:36, ID: ST171026M1-8 PFC CS5 17J2101, Description: PFC CS5 17J2101

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
2.628e+006

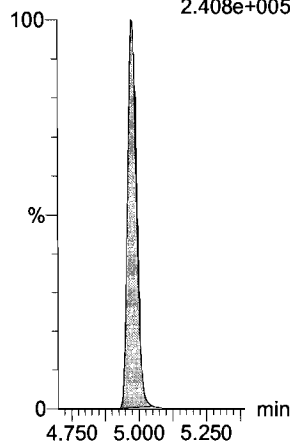


F34:MRM of 2 channels,ES-  
513 > 219  
3.775e+005



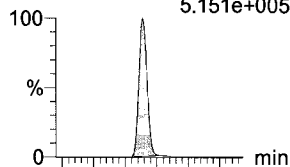
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.408e+005

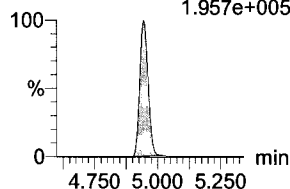


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
5.151e+005

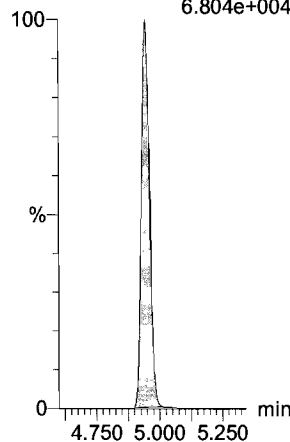


F39:MRM of 2 channels,ES-  
527 > 80  
1.957e+005



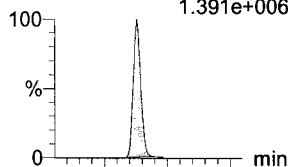
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
6.804e+004

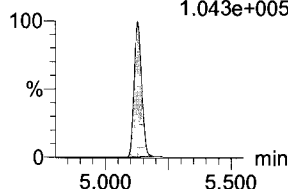


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.391e+006

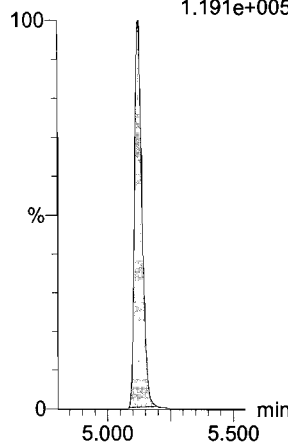


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.043e+005



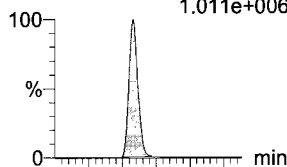
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.191e+005

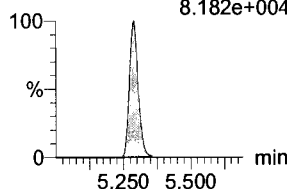


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.011e+006

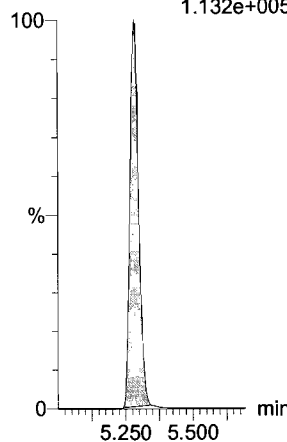


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
8.182e+004



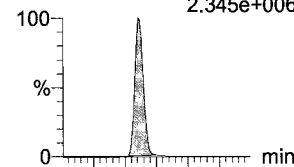
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.132e+005

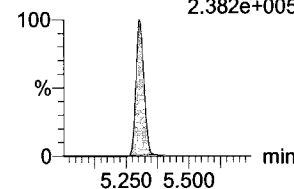


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
2.345e+006

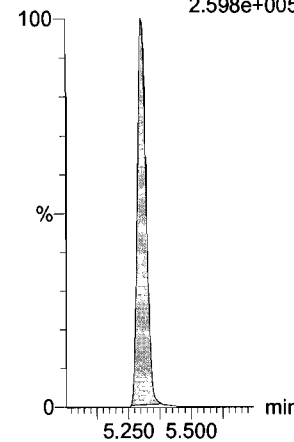


F42:MRM of 2 channels,ES-  
563.0 > 269  
2.382e+005



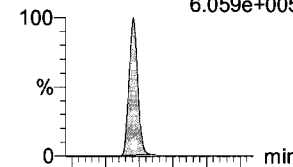
**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.598e+005

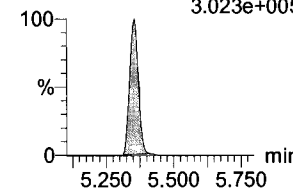


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
6.059e+005

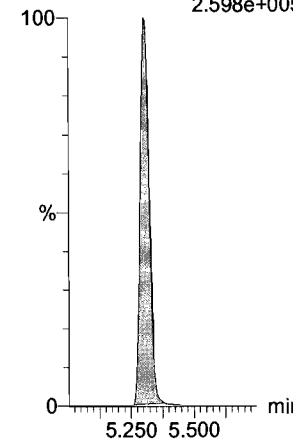


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
3.023e+005



**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.598e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

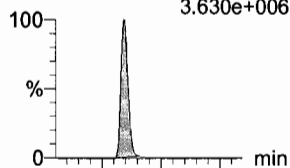
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

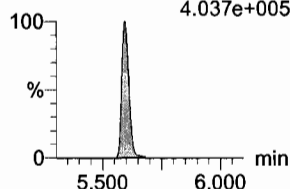
Name: 171026M1\_9, Date: 26-Oct-2017, Time: 10:44:36, ID: ST171026M1-8 PFC CS5 17J2101, Description: PFC CS5 17J2101

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

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
3.630e+006

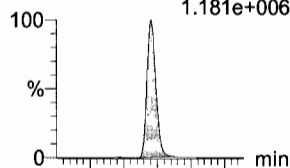


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
4.037e+005

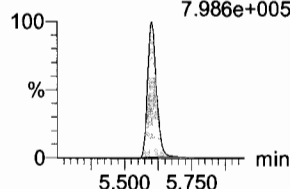


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
1.181e+006

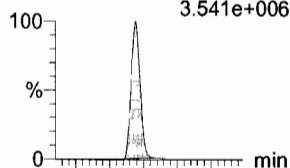


F33:MRM of 2 channels,ES-  
512.1 > 219  
7.986e+005

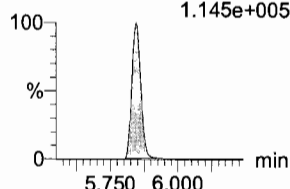


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
3.541e+006

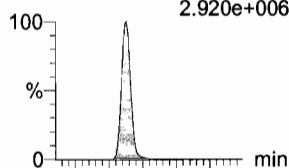


F56:MRM of 2 channels,ES-  
662.9 > 319  
1.145e+005

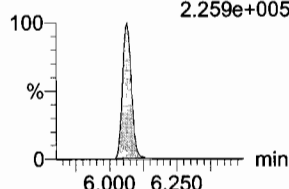


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
2.920e+006

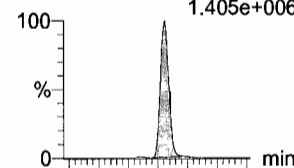


F57:MRM of 2 channels,ES-  
712.9 > 369  
2.259e+005

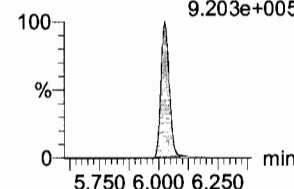


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
1.405e+006

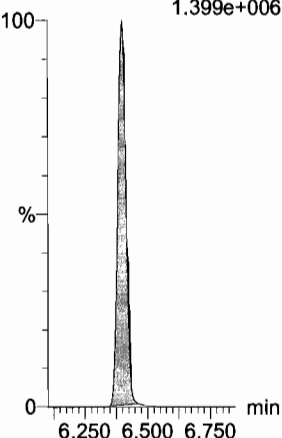


F38:MRM of 2 channels,ES-  
526.1 > 219  
9.203e+005



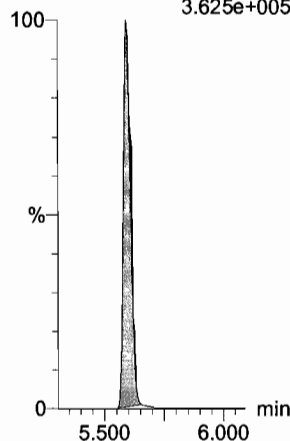
**PFH<sub>x</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
1.399e+006



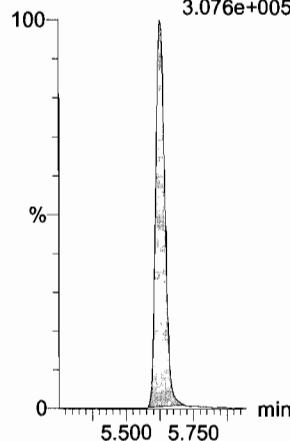
**13C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
3.625e+005



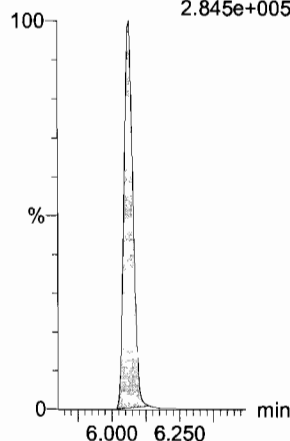
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.076e+005



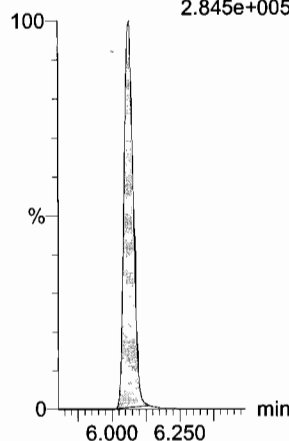
**13C2-PFT<sub>r</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.845e+005



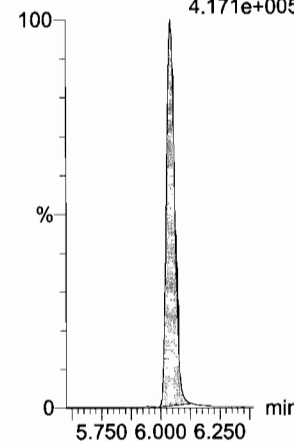
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.845e+005



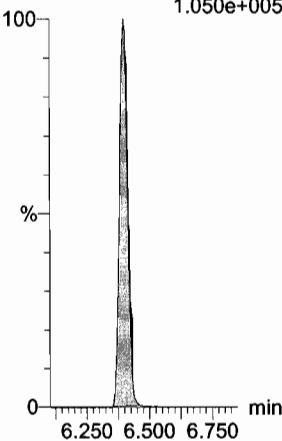
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.171e+005



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

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.050e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

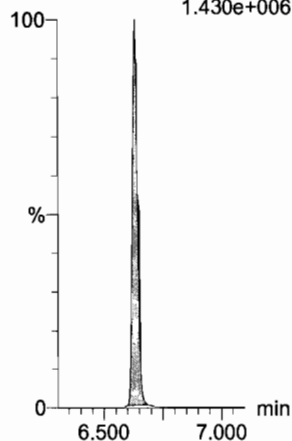
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_9, Date: 26-Oct-2017, Time: 10:44:36, ID: ST171026M1-8 PFC CS5 17J2101, Description: PFC CS5 17J2101

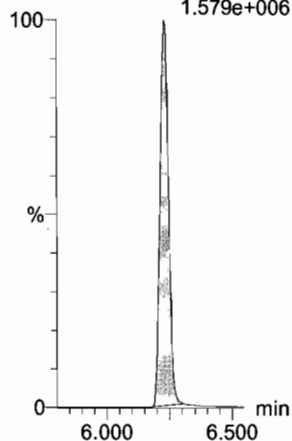
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
1.430e+006



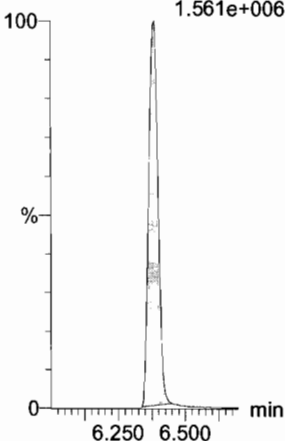
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
1.579e+006



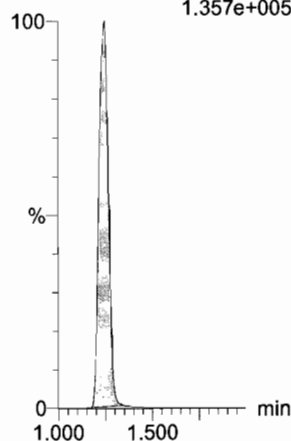
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
1.561e+006



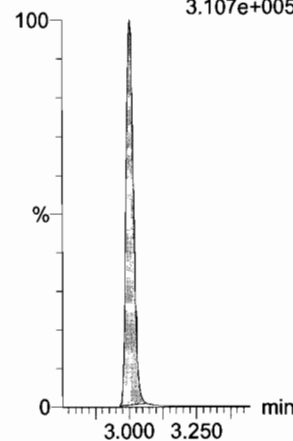
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.357e+005



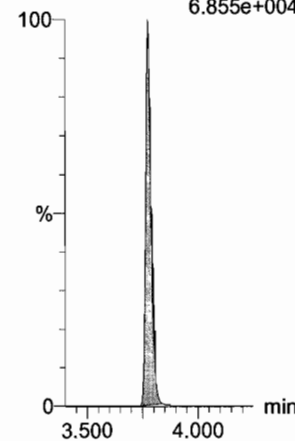
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
3.107e+005



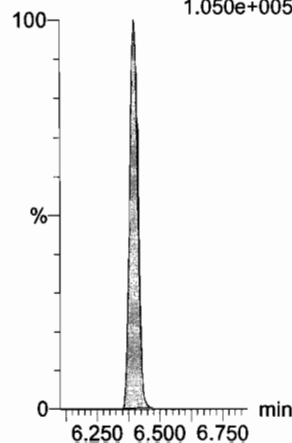
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
6.855e+004



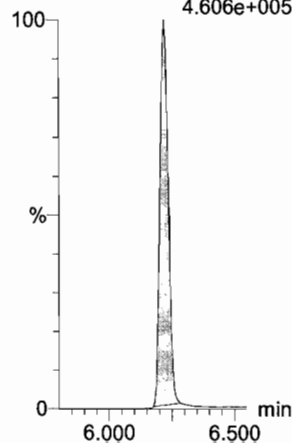
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.050e+005



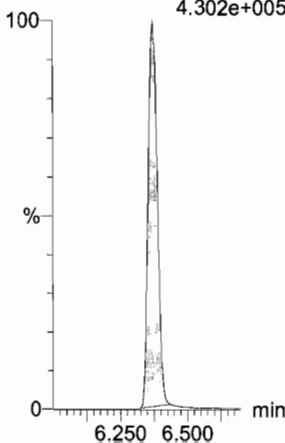
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
4.606e+005



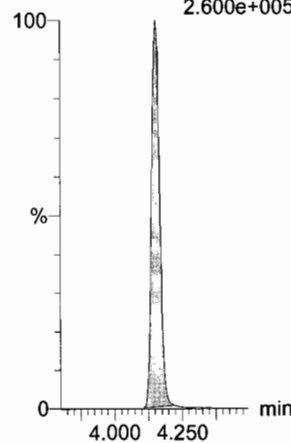
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
4.302e+005



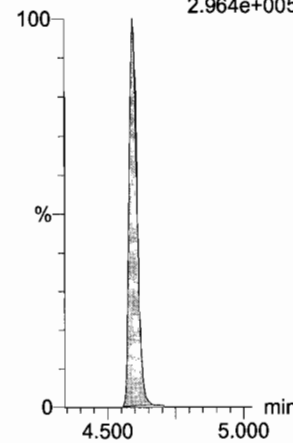
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
2.600e+005



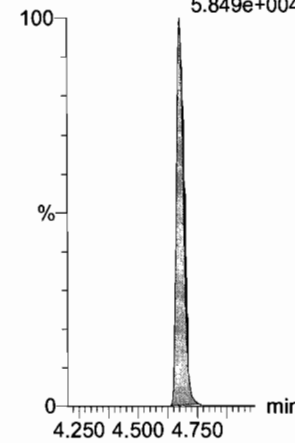
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.964e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.849e+004



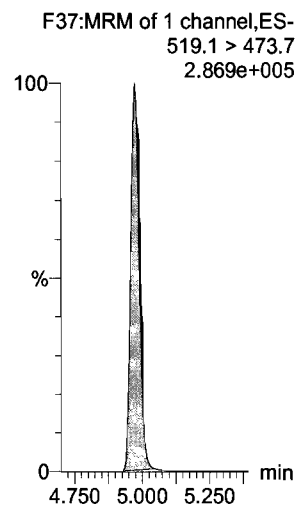
Dataset:      U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered:    Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

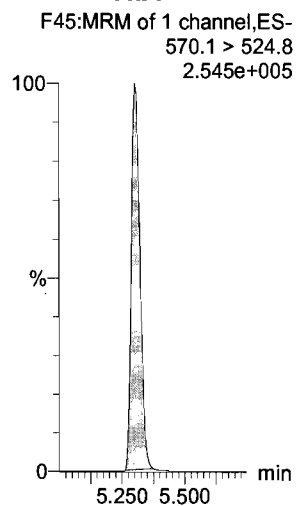
Printed:      Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_9, Date: 26-Oct-2017, Time: 10:44:36, ID: ST171026M1-8 PFC CS5 17J2101, Description: PFC CS5 17J2101

**13C6-PFDA**



**13C7-PFUnA**



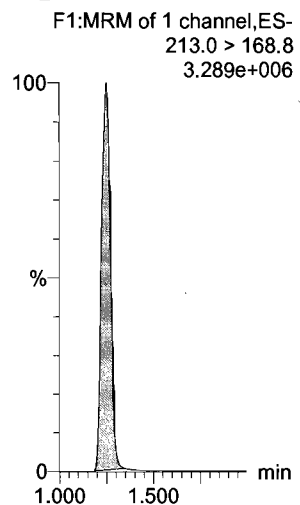
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Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

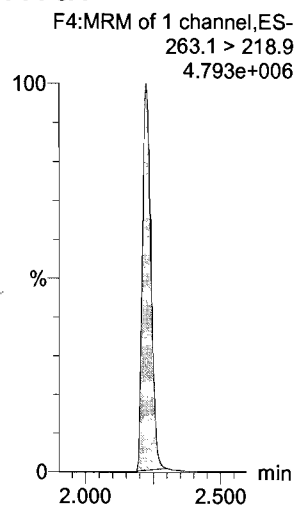
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_10, Date: 26-Oct-2017, Time: 10:55:46, ID: ST171026M1-9 PFC CS6 17J2517, Description: PFC CS6 17J2517

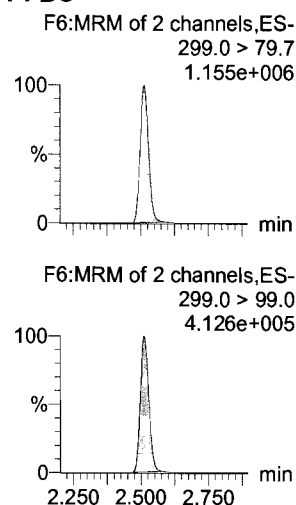
**PFBA**



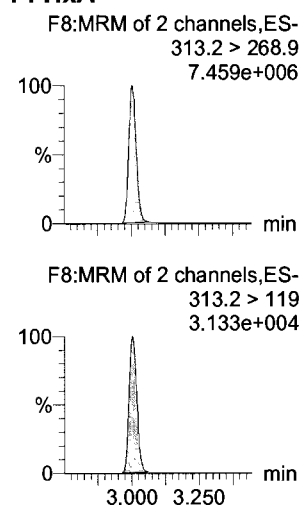
**PFPeA**



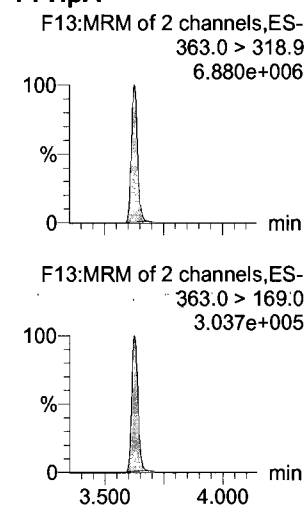
**PFBS**



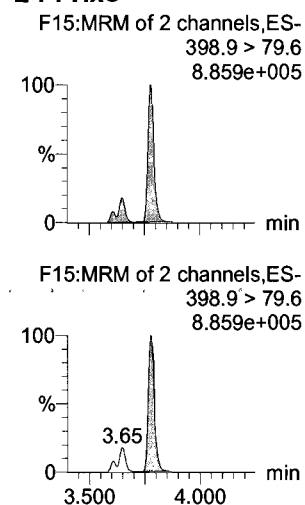
**PFHxA**



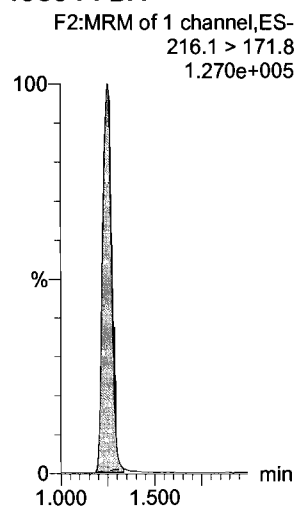
**PFHpA**



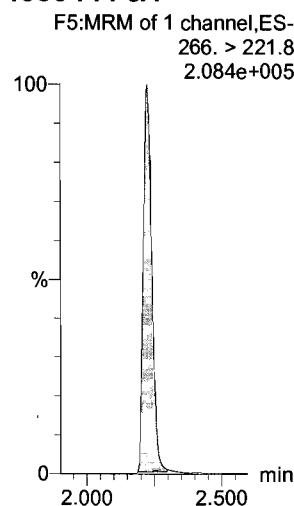
**L-PFHxS**



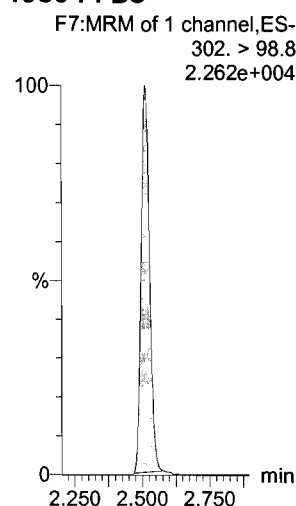
**13C3-PFBA**



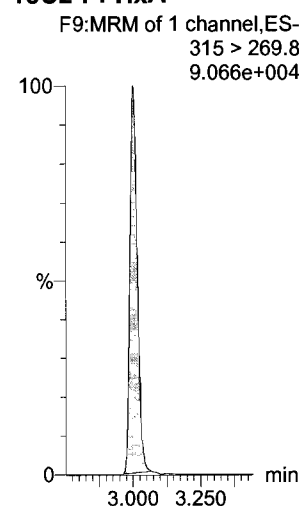
**13C3-PFPeA**



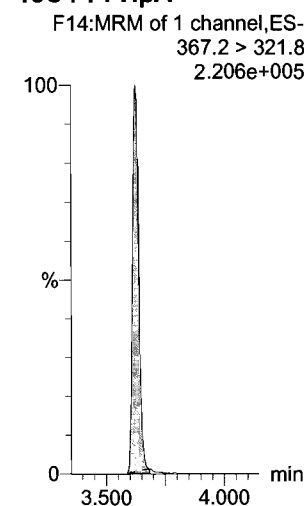
**13C3-PFBS**



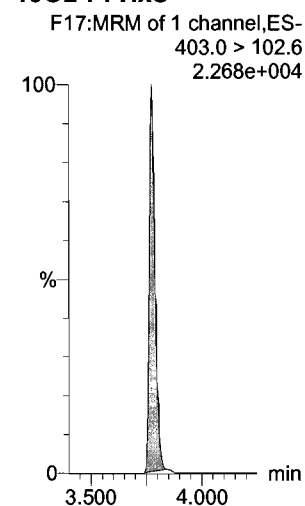
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

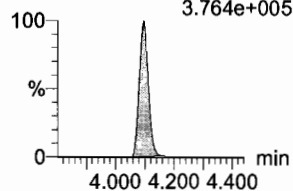
Name: 171026M1\_10, Date: 26-Oct-2017, Time: 10:55:46, ID: ST171026M1-9 PFC CS6 17J2517, Description: PFC CS6 17J2517

### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.144e+006

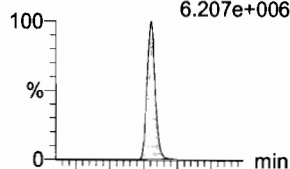


F21:MRM of 2 channels,ES-  
427.1 > 80  
3.764e+005

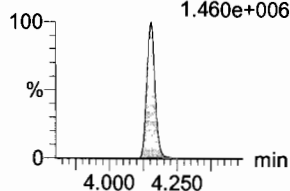


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
6.207e+006

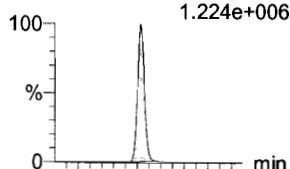


F18:MRM of 2 channels,ES-  
413 > 169  
1.460e+006

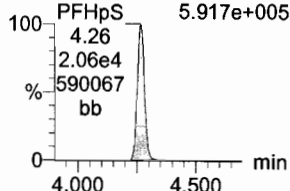


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.224e+006

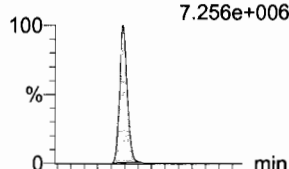


F23:MRM of 2 channels,ES-  
449 > 98.7  
5.917e+005

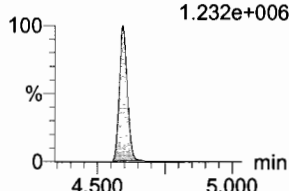


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
7.256e+006

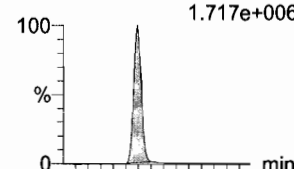


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.232e+006

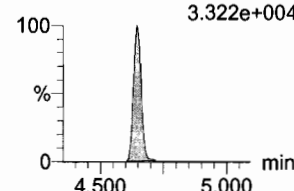


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.717e+006

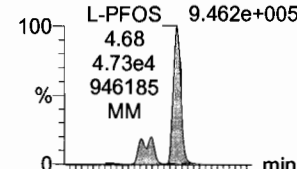


F27:MRM of 2 channels,ES-  
498.1 > 478  
3.322e+004

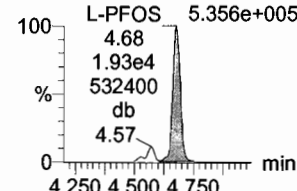


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
9.462e+005

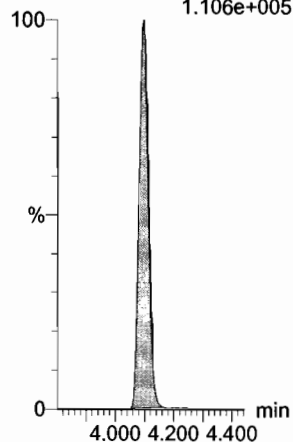


F29:MRM of 2 channels,ES-  
499 > 99  
5.356e+005



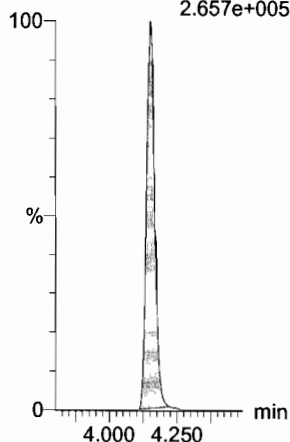
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.106e+005



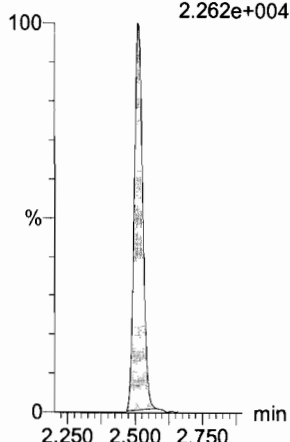
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.657e+005



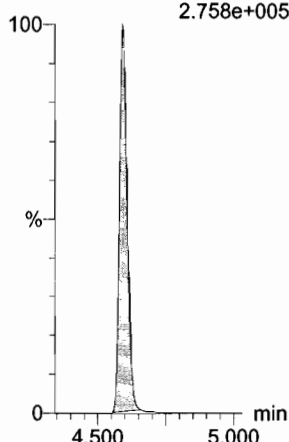
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.262e+004



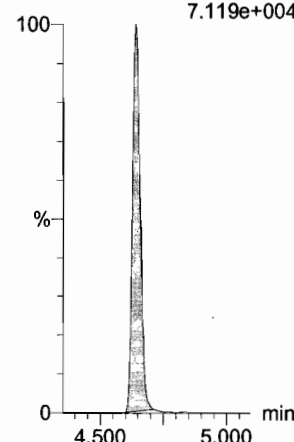
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.758e+005



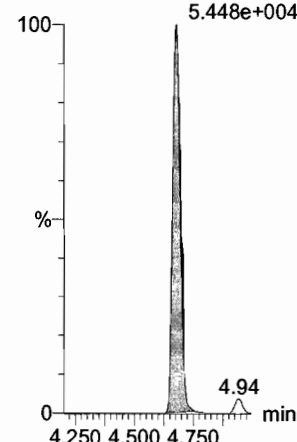
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
7.119e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
5.448e+004





Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

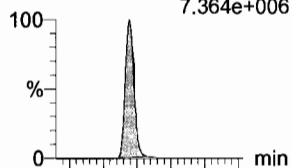
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

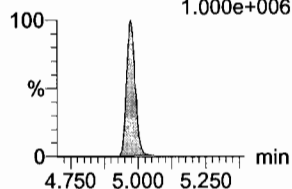
Name: 171026M1\_10, Date: 26-Oct-2017, Time: 10:55:46, ID: ST171026M1-9 PFC CS6 17J2517, Description: PFC CS6 17J2517

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
7.364e+006

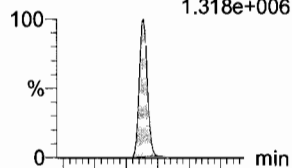


F34:MRM of 2 channels,ES-  
513 > 219  
1.000e+006

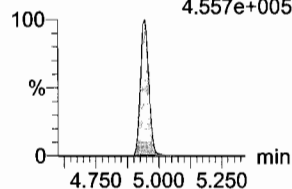


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
1.318e+006

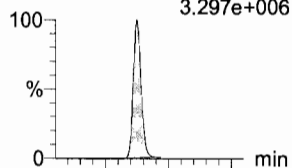


F39:MRM of 2 channels,ES-  
527 > 80  
4.557e+005

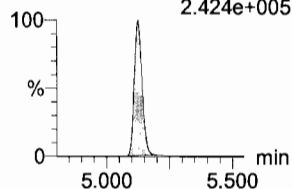


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
3.297e+006

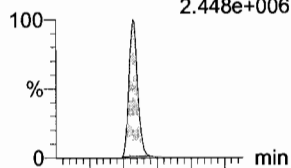


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
2.424e+005

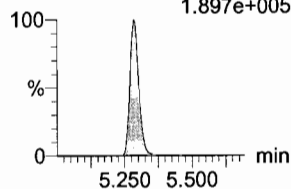


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
2.448e+006

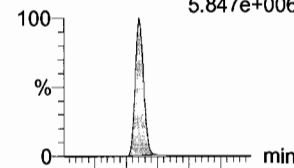


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.897e+005

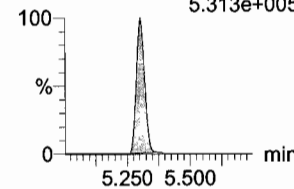


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
5.847e+006

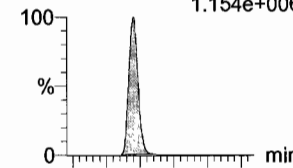


F42:MRM of 2 channels,ES-  
563.0 > 269  
5.313e+005

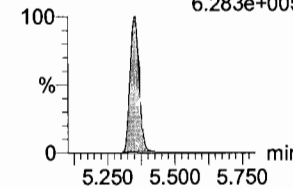


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
1.154e+006

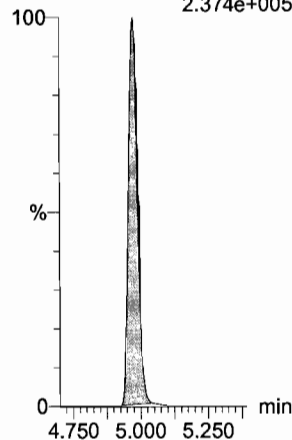


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
6.283e+005



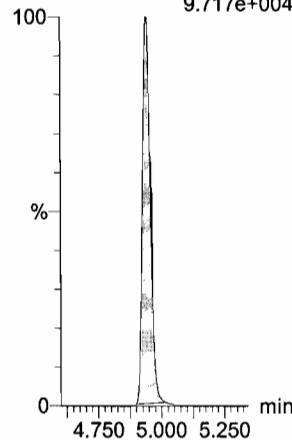
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.374e+005



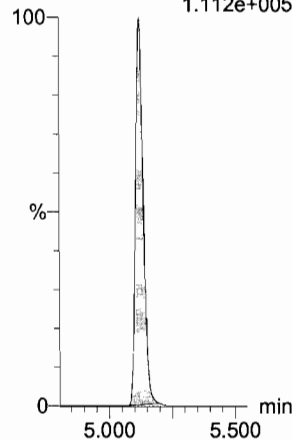
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
9.717e+004



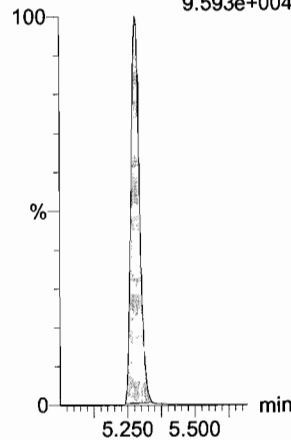
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.112e+005



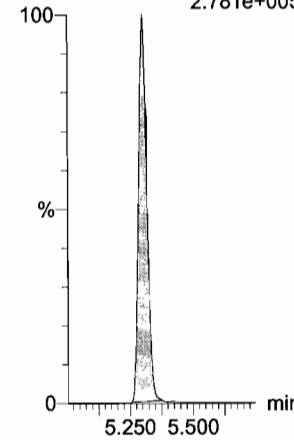
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
9.593e+004



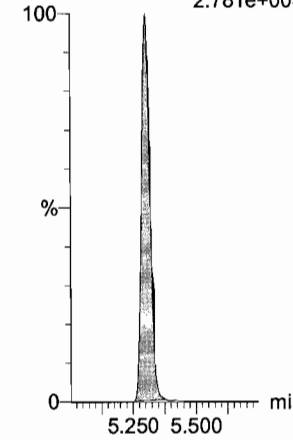
**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.781e+005



**13C2-PFUnA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.781e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

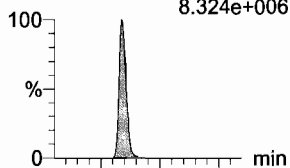
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

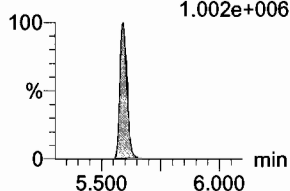
Name: 171026M1\_10, Date: 26-Oct-2017, Time: 10:55:46, ID: ST171026M1-9 PFC CS6 17J2517, Description: PFC CS6 17J2517

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

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
8.324e+006

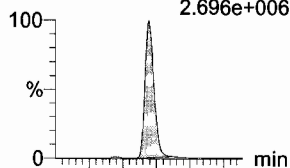


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
1.002e+006

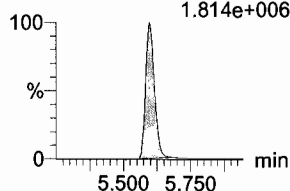


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.696e+006

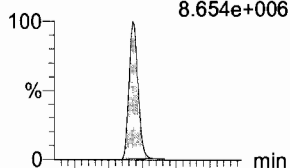


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.814e+006

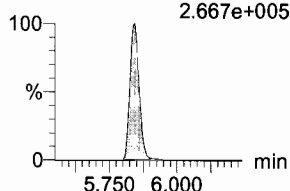


**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
8.654e+006

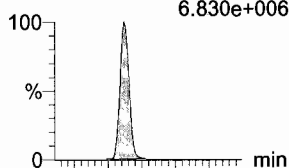


F56:MRM of 2 channels,ES-  
662.9 > 319  
2.667e+005

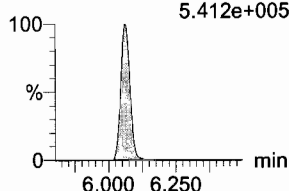


**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
6.830e+006

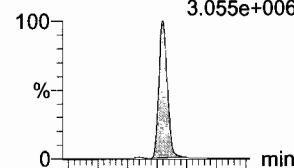


F57:MRM of 2 channels,ES-  
712.9 > 369  
5.412e+005

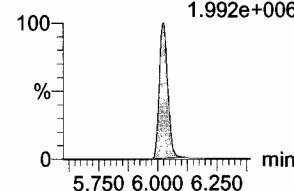


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
3.055e+006

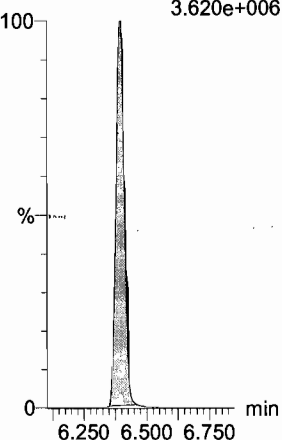


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.992e+006



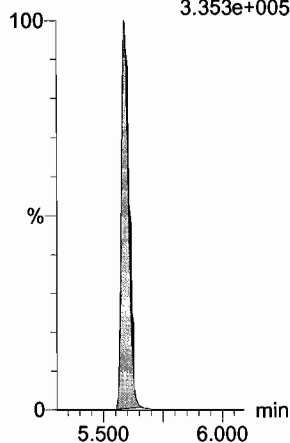
**PFH<sub>x</sub>DA**

F59:MRM of 1 channel,ES-  
813.1 > 768.6  
3.620e+006



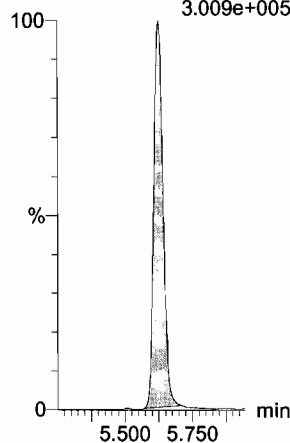
**13C2-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
3.353e+005



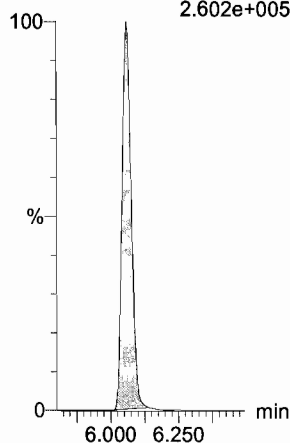
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
3.009e+005



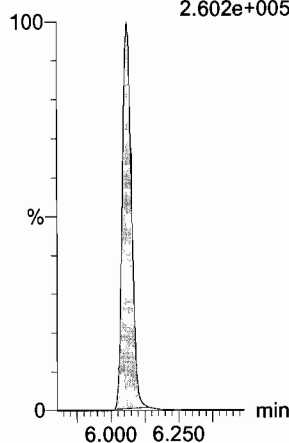
**13C2-PFT<sub>r</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.602e+005



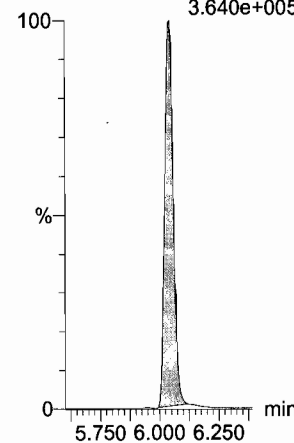
**13C2-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.602e+005



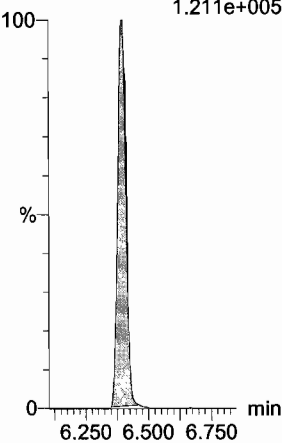
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
3.640e+005



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

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.211e+005



Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

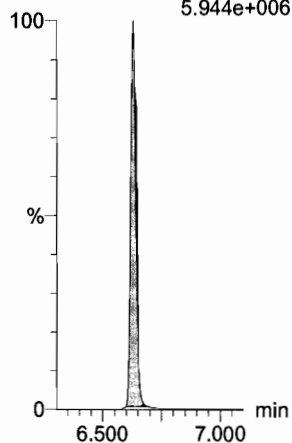
Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_10, Date: 26-Oct-2017, Time: 10:55:46, ID: ST171026M1-9 PFC CS6 17J2517, Description: PFC CS6 17J2517

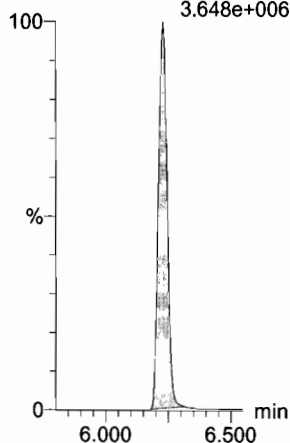
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
5.944e+006



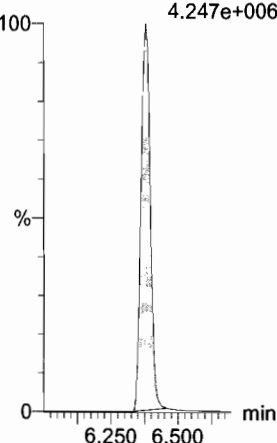
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
3.648e+006



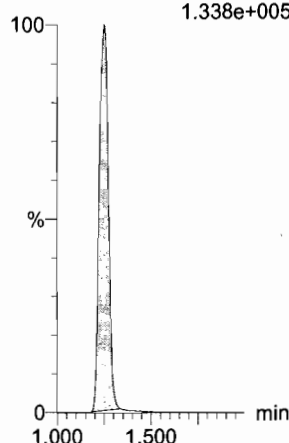
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
4.247e+006



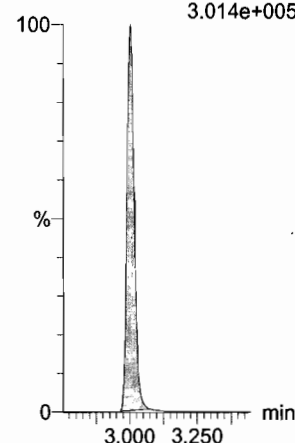
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.338e+005



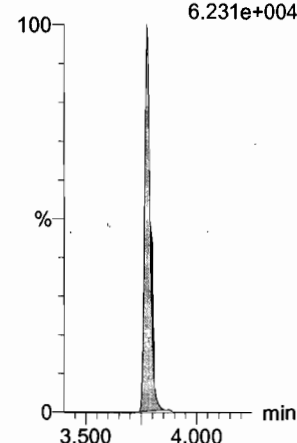
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
3.014e+005



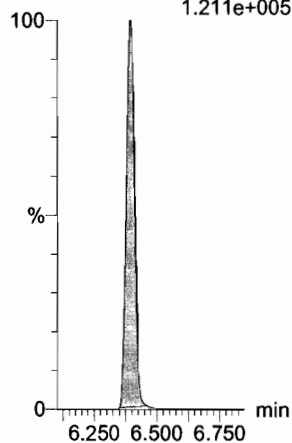
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
6.231e+004



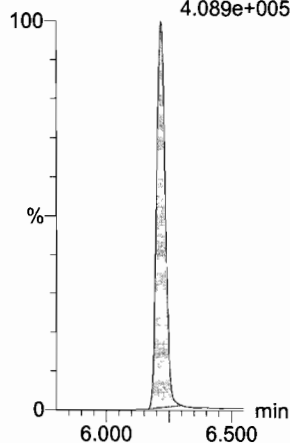
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.211e+005



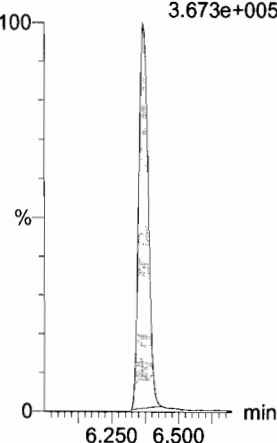
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
4.089e+005



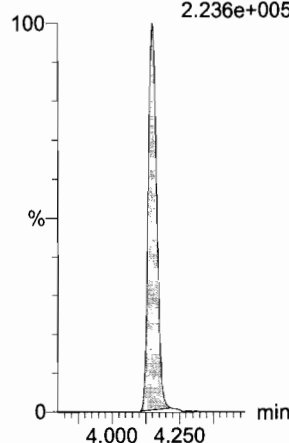
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
3.673e+005



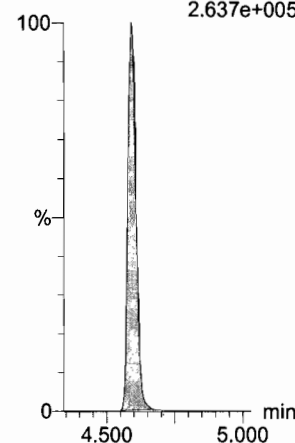
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
2.236e+005



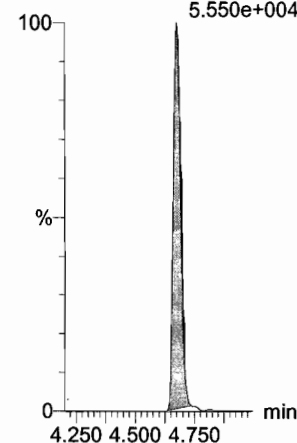
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.637e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.550e+004



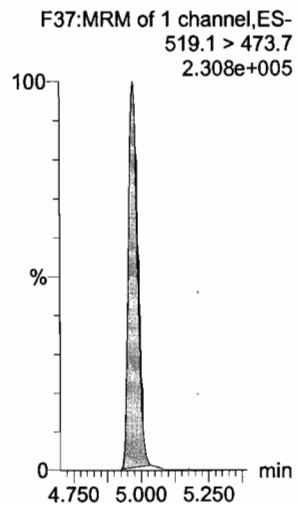
Dataset: U:\Q4.PRO\results\171026M1\171026M1-CRV.qld

Last Altered: Thursday, October 26, 2017 15:43:46 Pacific Daylight Time

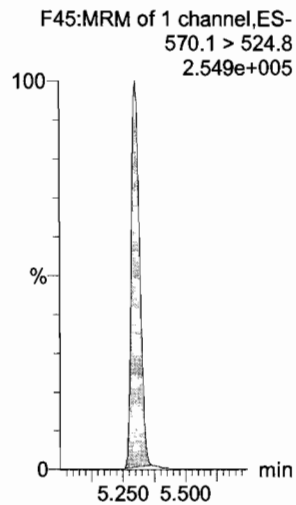
Printed: Thursday, October 26, 2017 15:44:32 Pacific Daylight Time

Name: 171026M1\_10, Date: 26-Oct-2017, Time: 10:55:46, ID: ST171026M1-9 PFC CS6 17J2517, Description: PFC CS6 17J2517

13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\171026M1\171026M1-13.qld

Last Altered: Friday, October 27, 2017 10:46:12 Pacific Daylight Time  
Printed: Friday, October 27, 2017 10:46:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 10:03:44

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_13, Date: 26-Oct-2017, Time: 11:30:01, ID: ICV171026M1-1 PFC ICV 1713003, Description: PFC ICV 1713003

(A) Not in ICV.

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	8.56e3	8.12e3		1.32	1.23	13.2	10.5	105.2
2	2 PFPeA	263.1 > 218.9	8.13e3	8.46e3		2.31	2.21	12.0	10.4	104.0
3	3 PFBS	299.0 > 79.7	1.90e3	1.04e3		2.59	2.51	22.9	9.42	94.2
4	4 PFHxA	313.2 > 268.9	1.24e4	3.33e3		3.08	3.00	18.6	11.2	111.6
5	5 PFHpA	363.0 > 318.9	1.11e4	8.36e3		3.70	3.62	16.5	10.9	109.3
6	6 L-PFHxS	398.9 > 79.6	1.63e3	8.16e2		3.86	3.78	24.9	10.3	102.9
7	8 6:2 FTS	427.1 > 407	2.25e3	2.66e3		4.18	4.10	10.6	10.3	102.9
8	9 L-PFOA	413 > 368.7	1.12e4	1.20e4		4.23	4.15	11.7	10.1	101.0
9	11 PFHpS	449 > 80.0	1.99e3	1.20e4		4.34	4.27	2.07	10.0	100.3
10	12 PFNA	463.0 > 418.8	1.34e4	1.12e4		4.67	4.60	15.0	10.4	103.7
11	13 PFOSA	498.1 > 77.8	3.65e3	3.44e3		4.72	4.65	13.3	11.4	113.6
12	14 L-PFOS	499 > 79.9	2.28e3	2.69e3		4.76	4.68	10.6	9.18	91.8
13	16 PFDA	513 > 468.8	1.48e4	1.13e4		5.05	4.98	16.4	12.1	121.1
14	17 8:2 FTS	527 > 506.9	2.85e3	2.36e3		5.03	4.95	15.1	11.3	112.8
15	18 N-MeFOSAA	570.1 > 419	6.77e3	4.57e3		5.21	5.13	18.5	11.7	117.2
16	19 N-EtFOSAA	584.2 > 419	5.48e3	5.15e3		5.37	5.29	13.3	10.5	104.9
17	20 PFUnA	563.0 > 518.9	1.33e4	1.53e4		5.38	5.32	10.9	9.54	95.4
18	21 PFDS	598.8 > 80	2.58e3	1.53e4		5.43	5.36	2.11	10.8	107.7
19	22 PFDoA	612.9 > 569.0	2.05e4	1.69e4		5.67	5.60	15.2	12.0	119.8
20	23 N-MeFOSA	512.1 > 168.9		1.39e4		5.63				
21	24 PFTTrDA	662.9 > 618.9	1.88e4	1.69e4		5.92	5.86	13.9	10.4	103.9
22	25 PFTeDA	712.9 > 668.8	1.50e4	1.25e4		6.13	6.08	15.1	9.16	91.6
23	26 N-EtFOSA	526.1 > 168.9		1.92e4		6.04				
24	27 PFHxDA	813.1 > 768.6		3.19e3		6.46				
25	29 N-MeFOSE	616.1 > 58.9		2.24e4		6.23				
26	30 N-EtFOSE	630.1 > 58.9		1.95e4		6.39				
27	31 13C3-PFBA	216.1 > 171.8	8.12e3	8.85e3	0.928	1.33	1.23	11.5	12.4	99.0
28	32 13C3-PFPeA	266. > 221.8	8.46e3	1.20e4	0.757	2.31	2.21	8.80	11.6	93.0
29	33 13C3-PFBS	302. > 98.8	1.04e3	1.20e4	0.091	2.59	2.51	1.08	11.9	95.1
30	34 13C2-PFHxA	315 > 269.8	3.33e3	1.20e4	0.739	3.08	3.00	3.46	4.68	93.7
31	Work Order 171026M1-13	367.2 > 321.8	8.36e3	1.20e4	0.684	3.70	3.62	8.69	12.7	101.7

70-130

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10/27/2017

50-150

Dataset: U:\Q4.PRO\results\171026M1\171026M1-13.qld

Last Altered: Friday, October 27, 2017 10:46:12 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:46:53 Pacific Daylight Time

Name: 171026M1\_13, Date: 26-Oct-2017, Time: 11:30:01, ID: ICV171026M1-1 PFC ICV 1713003, Description: PFC ICV 1713003

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	36 18O2-PFHxS	403.0 > 102.6	8.16e2	2.17e3	0.412	3.85	3.78	4.71	11.4	91.3
33	37 13C2-6:2 FTS	429.1 > 408.9	2.66e3	1.14e4	0.248	4.18	4.10	2.92	11.8	94.3
34	38 13C2-PFOA	414.9 > 369.7	1.20e4	1.14e4	1.120	4.23	4.15	13.2	11.8	94.5
35	39 13C5-PFNA	468.2 > 422.9	1.12e4	1.20e4	0.929	4.67	4.59	11.7	12.6	100.5
36	40 13C8-PFOSA	506.1 > 77.7	3.44e3	1.46e4	0.246	4.72	4.65	2.93	11.9	95.3
37	41 13C8-PFOS	507.0 > 79.9	2.69e3	2.51e3	1.027	4.76	4.68	13.4	13.1	104.4
38	42 13C2-PFDA	515.1 > 469.9	1.13e4	1.25e4	0.946	5.05	4.98	11.2	11.9	95.1
39	43 13C2-8:2 FTS	529.1 > 508.7	2.36e3	1.25e4	0.171	5.03	4.95	2.36	13.8	110.2
40	44 d3-N-MeFOSAA	573.3 > 419	4.57e3	1.46e4	0.358	5.20	5.13	3.90	10.9	87.2
41	45 d5-N-EtFOSAA	589.3 > 419	5.15e3	1.46e4	0.360	5.36	5.29	4.39	12.2	97.7
42	46 13C2-PFUDa	565 > 519.8	1.53e4	1.46e4	1.045	5.38	5.32	13.0	12.5	99.9
43	47 13C2-PFDoA	615.0 > 569.7	1.69e4	1.46e4	1.141	5.67	5.60	14.4	12.6	100.8
44	48 d3-N-MeFOSA	515.2 > 168.9	1.39e4	1.46e4	0.093	5.65	5.62	11.8	127	84.5
45	49 13C2-PFTeDA	714.8 > 669.6	1.25e4	1.46e4	0.934	6.13	6.08	10.6	11.4	91.1
46	50 d5-N-ETFOSA	531.1 > 168.9	1.92e4	1.46e4	0.132	6.06	6.04	16.4	124	82.8
47	51 13C2-PFHxDA	815 > 769.7	3.19e3	1.46e4	0.809	6.45	6.41	2.73	3.37	67.4
48	52 d7-N-MeFOSE	623.1 > 58.9	2.24e4	1.46e4	0.142	6.22	6.23	19.1	135	89.8
49	53 d9-N-EtFOSE	639.2 > 58.8	1.95e4	1.46e4	0.131	6.37	6.38	16.6	127	84.8
50	54 13C4-PFBA	217. > 171.8	8.85e3	8.85e3	1.000	1.33	1.23	12.5	12.5	100.0
51	55 13C5-PFHxA	318 > 272.9	1.20e4	1.20e4	1.000	3.08	2.99	12.5	12.5	100.0
52	56 13C3-PFHxS	401.9 > 79.9	2.17e3	2.17e3	1.000	3.85	3.77	12.5	12.5	100.0
53	57 13C8-PFOA	421.3 > 376	1.14e4	1.14e4	1.000	4.23	4.15	12.5	12.5	100.0
54	58 13C9-PFNA	472.2 > 426.9	1.20e4	1.20e4	1.000	4.67	4.59	12.5	12.5	100.0
55	59 13C4-PFOS	503 > 79.9	2.51e3	2.51e3	1.000	4.76	4.68	12.5	12.5	100.0
56	60 13C6-PFDA	519.1 > 473.7	1.25e4	1.25e4	1.000	5.05	4.98	12.5	12.5	100.0
57	61 13C7-PFUnA	570.1 > 524.8	1.46e4	1.46e4	1.000	5.38	5.31	12.5	12.5	100.0

50-150  
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Dataset: U:\Q4.PRO\results\171026M1\171026M1-13.qld

Last Altered: Friday, October 27, 2017 10:46:12 Pacific Daylight Time

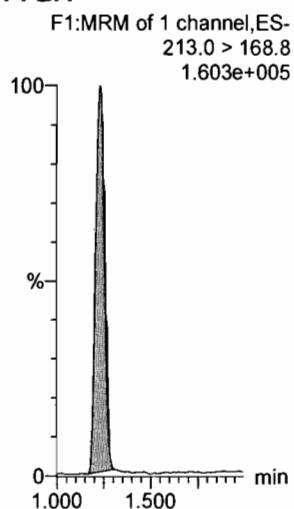
Printed: Friday, October 27, 2017 10:46:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 27 Oct 2017 10:03:44

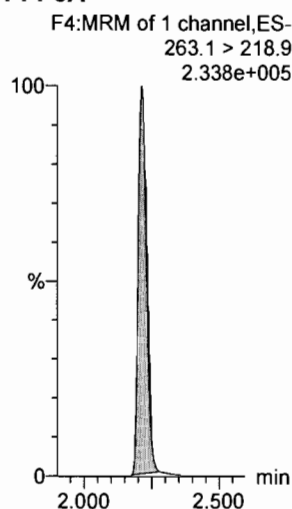
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 27 Oct 2017 10:26:14

Name: 171026M1\_13, Date: 26-Oct-2017, Time: 11:30:01, ID: ICV171026M1-1 PFC ICV 1713003, Description: PFC ICV 1713003

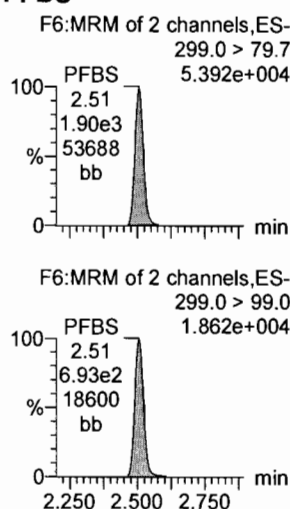
### PFBA



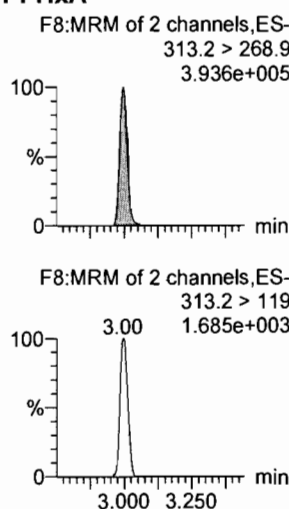
### PFPeA



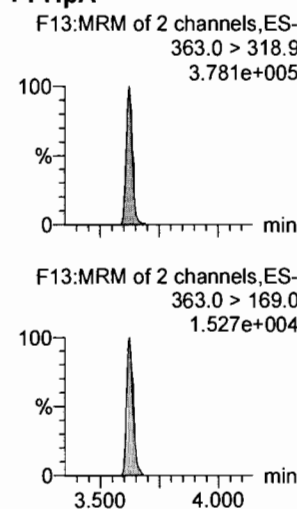
### PFBS



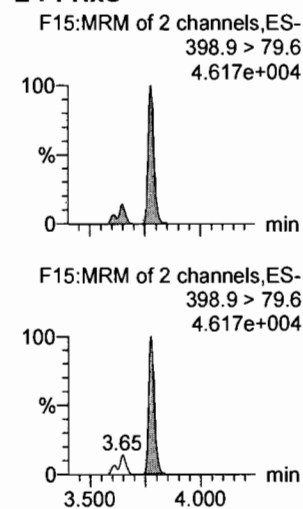
### PFHxA



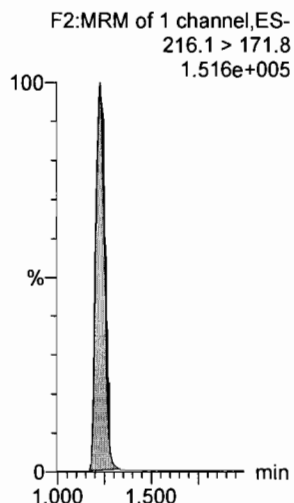
### PFHpA



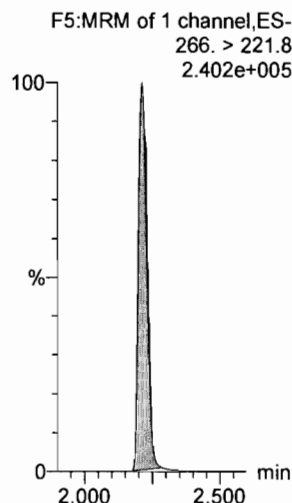
### L-PFHxS



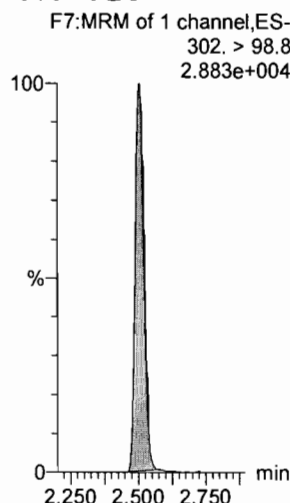
### 13C3-PFBA



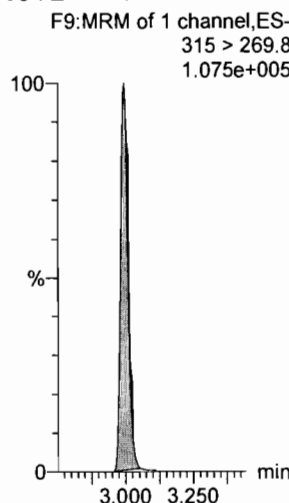
### 13C3-PFPeA



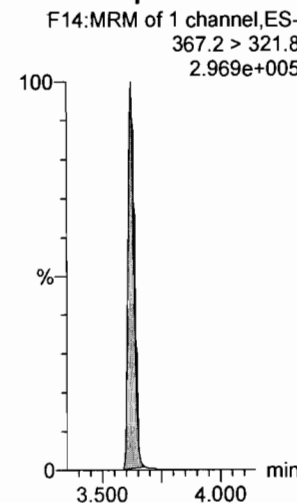
### 13C3-PFBS



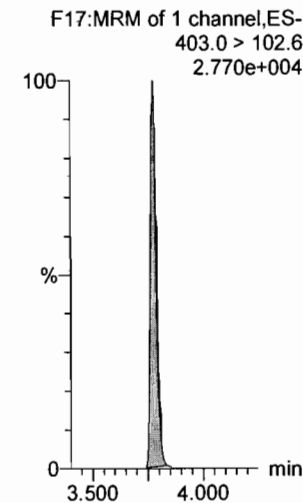
### 13C2-PFHxA



### 13C4-PFHpA



### 18O2-PFHxS



Dataset: U:\Q4.PRO\results\171026M1\171026M1-13.qld

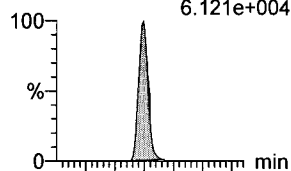
Last Altered: Friday, October 27, 2017 10:46:12 Pacific Daylight Time

Printed: Friday, October 27, 2017 10:46:53 Pacific Daylight Time

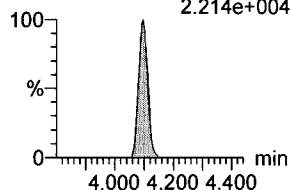
Name: 171026M1\_13, Date: 26-Oct-2017, Time: 11:30:01, ID: ICV171026M1-1 PFC ICV 1713003, Description: PFC ICV 1713003

### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
6.121e+004

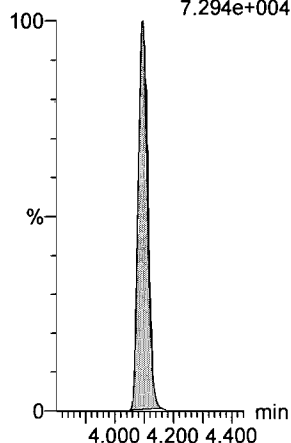


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.214e+004



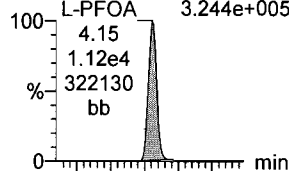
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
7.294e+004

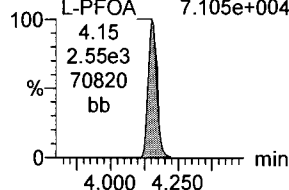


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
3.244e+005

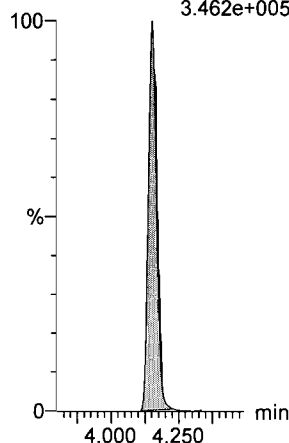


F18:MRM of 2 channels,ES-  
413 > 169  
7.105e+004



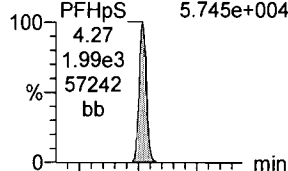
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.462e+005

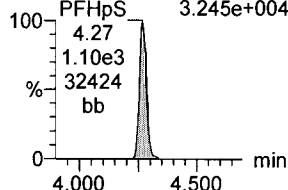


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
5.745e+004

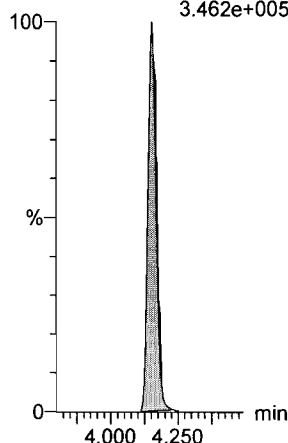


F23:MRM of 2 channels,ES-  
449 > 98.7  
3.245e+004



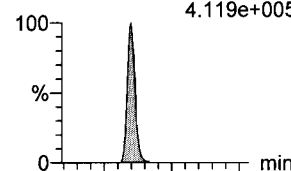
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.462e+005

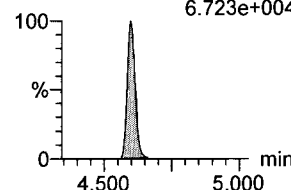


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.119e+005

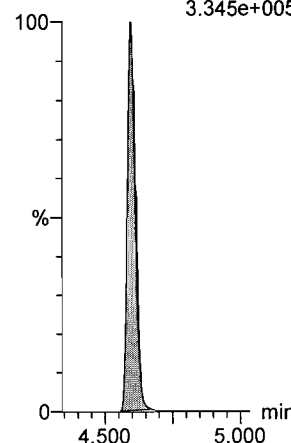


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
6.723e+004



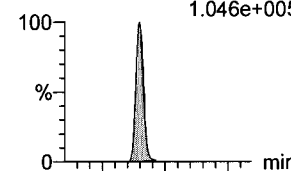
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.345e+005

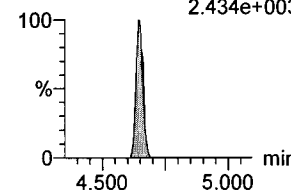


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.046e+005

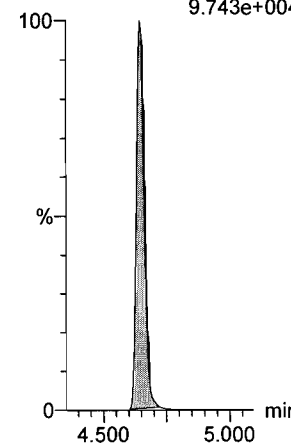


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.434e+003



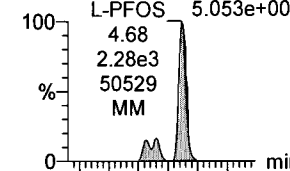
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
9.743e+004

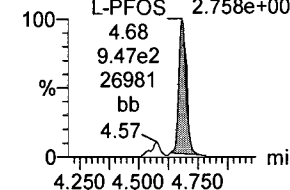


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
5.053e+004

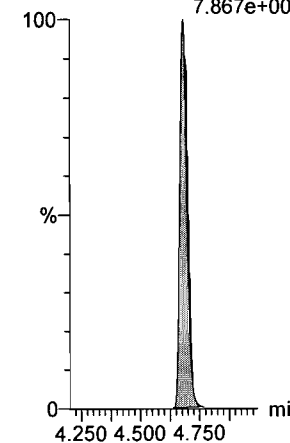


F29:MRM of 2 channels,ES-  
499 > 99  
2.758e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
7.867e+004





Dataset: U:\Q4.PRO\results\171026M1\171026M1-13.qld

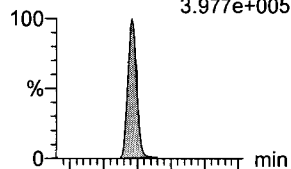
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Printed: Friday, October 27, 2017 10:46:53 Pacific Daylight Time

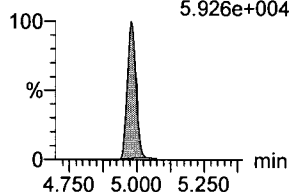
Name: 171026M1\_13, Date: 26-Oct-2017, Time: 11:30:01, ID: ICV171026M1-1 PFC ICV 1713003, Description: PFC ICV 1713003

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
3.977e+005

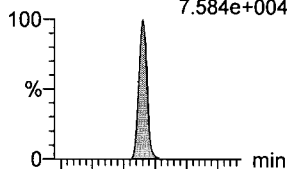


F34:MRM of 2 channels,ES-  
513 > 219  
5.926e+004

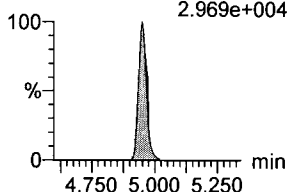


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
7.584e+004



F39:MRM of 2 channels,ES-  
527 > 80  
2.969e+004

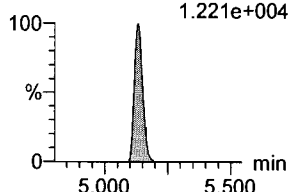


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.934e+005

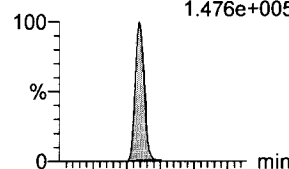


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.221e+004

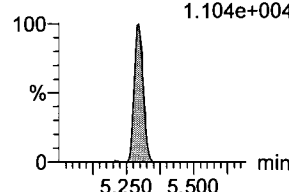


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.476e+005

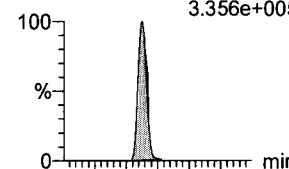


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.104e+004

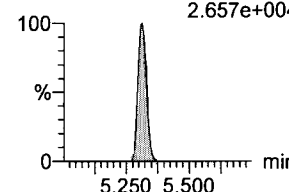


**PFUnA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
3.356e+005

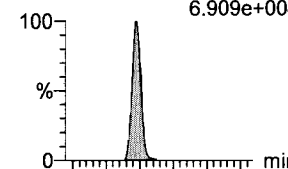


F42:MRM of 2 channels,ES-  
563.0 > 269  
2.657e+004

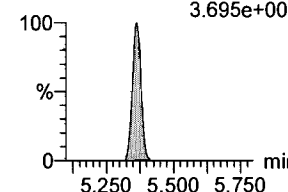


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
6.909e+004

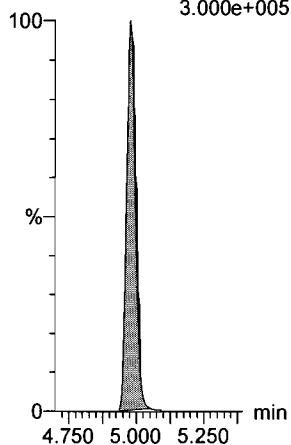


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
3.695e+004



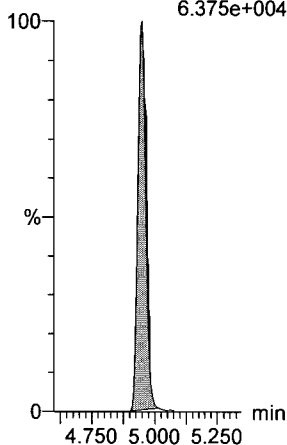
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
3.000e+005



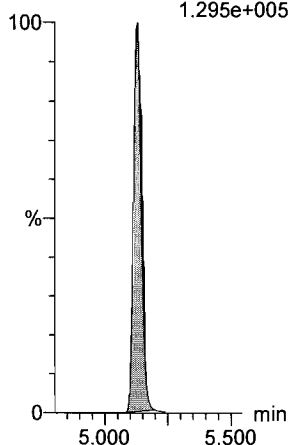
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
6.375e+004



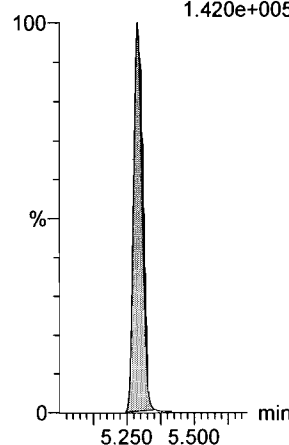
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.295e+005



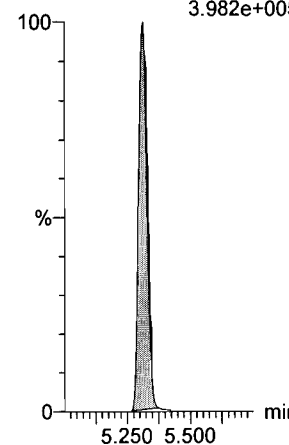
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.420e+005



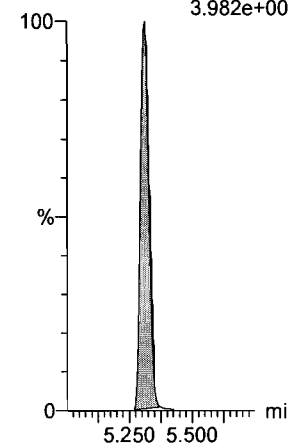
**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.982e+005



**13C2-PFUDa**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.982e+005



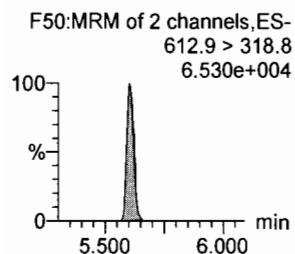
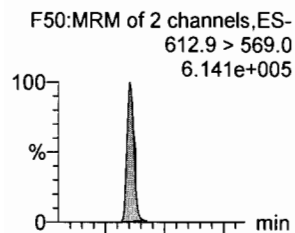
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Last Altered: Friday, October 27, 2017 10:46:12 Pacific Daylight Time

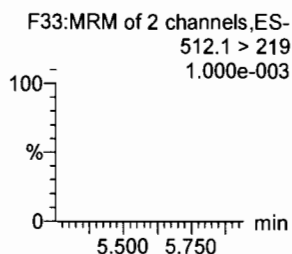
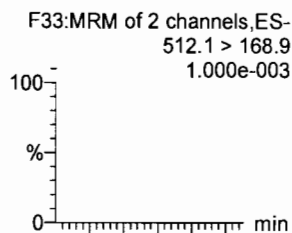
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Name: 171026M1\_13, Date: 26-Oct-2017, Time: 11:30:01, ID: ICV171026M1-1 PFC ICV 1713003, Description: PFC ICV 1713003

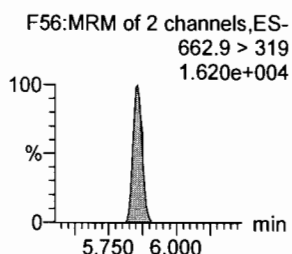
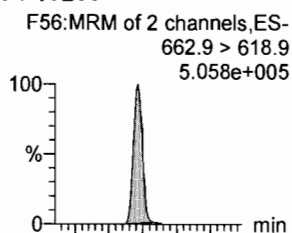
**PFD<sub>o</sub>A**



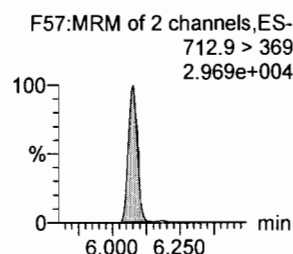
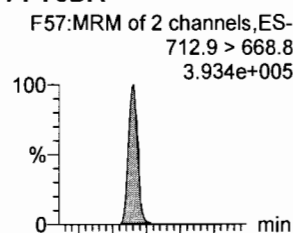
**N-MeFOSA**



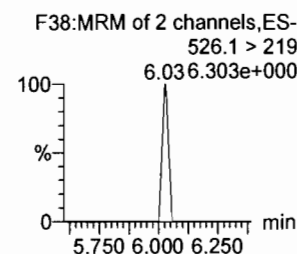
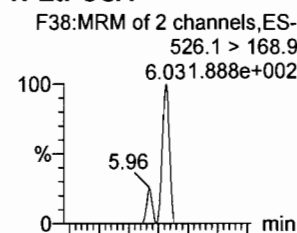
**PFT<sub>r</sub>DA**



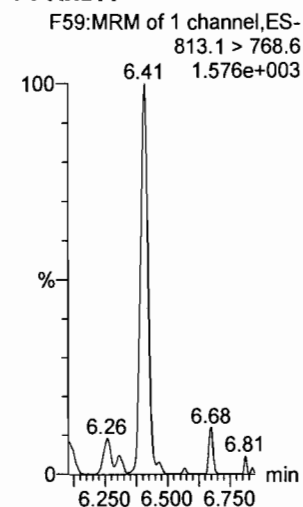
**PFT<sub>e</sub>DA**



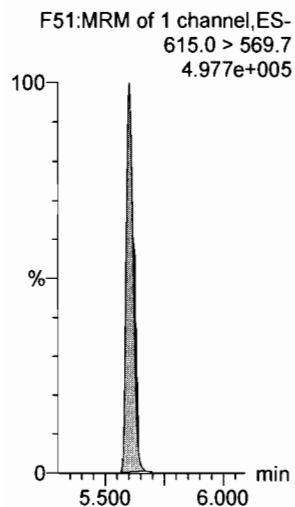
**N-EtFOSA**



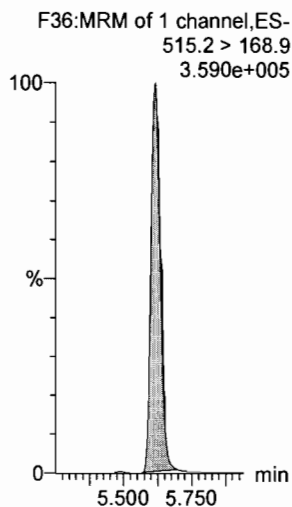
**PFH<sub>x</sub>DA**



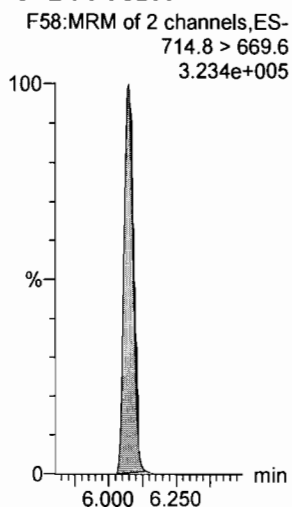
**13C2-PFD<sub>o</sub>A**



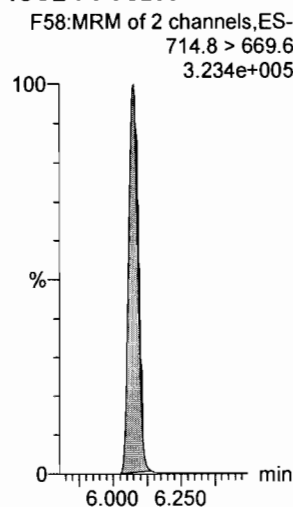
**d3-N-MeFOSA**



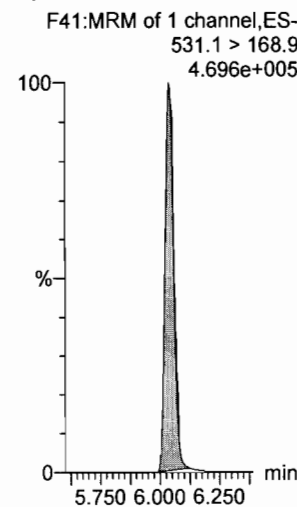
**13C2-PFT<sub>e</sub>DA**



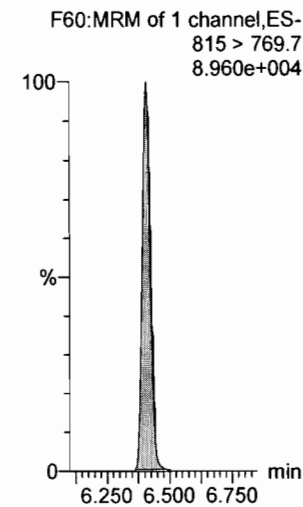
**13C2-PFT<sub>e</sub>DA**



**d5-N-ETFOA**



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



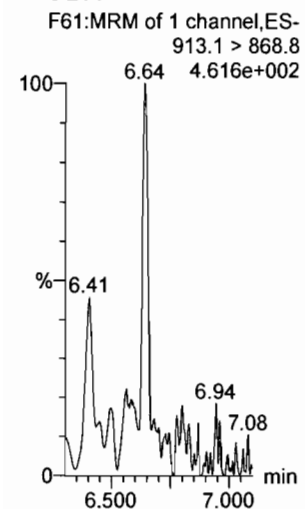
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Last Altered: Friday, October 27, 2017 10:46:12 Pacific Daylight Time

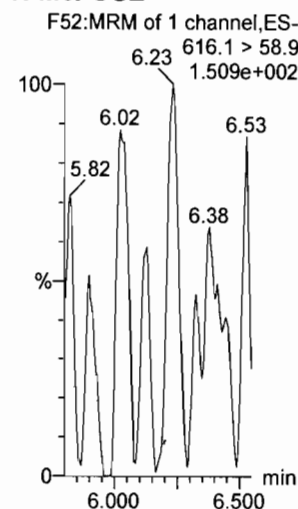
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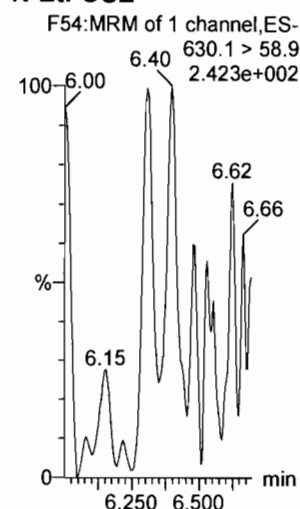
**PFODA**



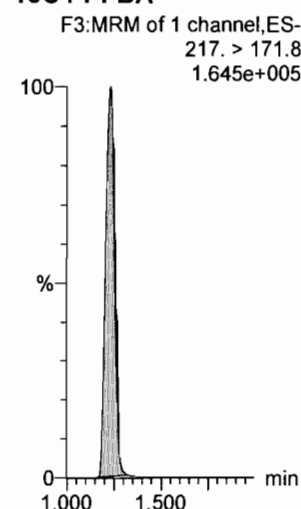
**N-MeFOSE**



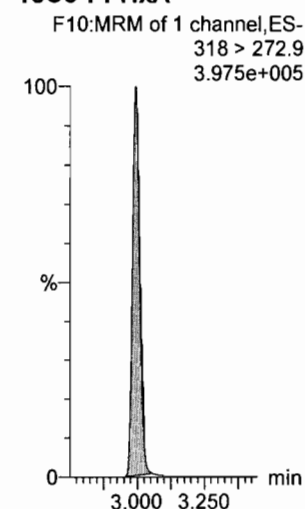
**N-EtFOSE**



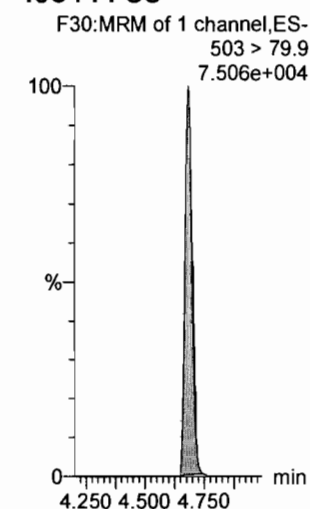
**13C4-PFBA**



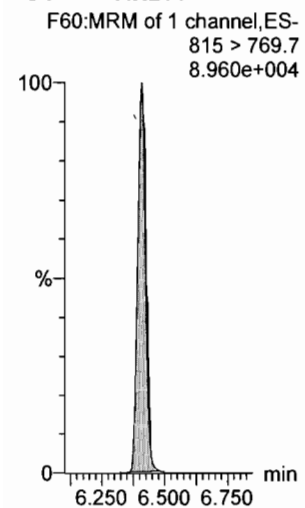
**13C5-PFHxA**



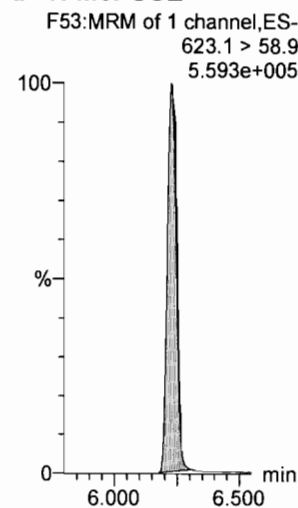
**13C4-PFOS**



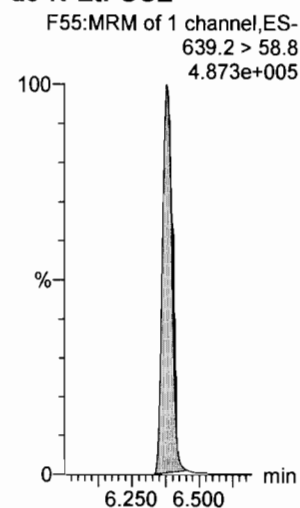
**13C2-PFHxDA**



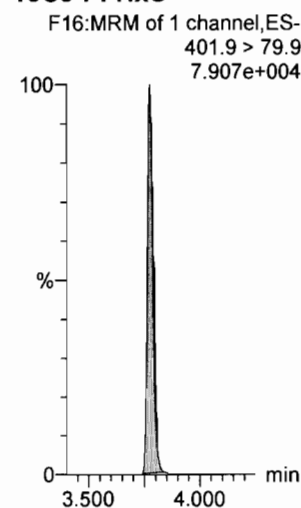
**d7-N-MeFOSE**



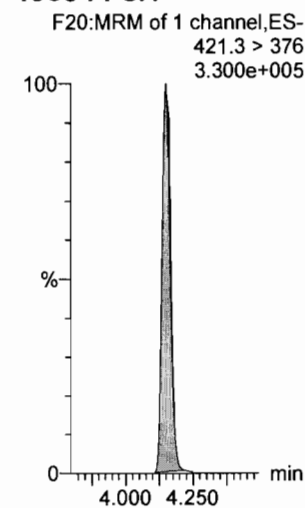
**d9-N-EtFOSE**



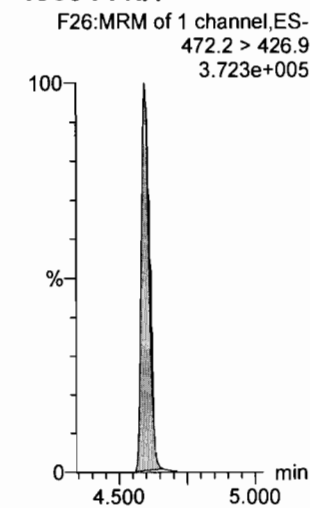
**13C3-PFHxS**



**13C8-PFOA**



**13C9-PFNA**



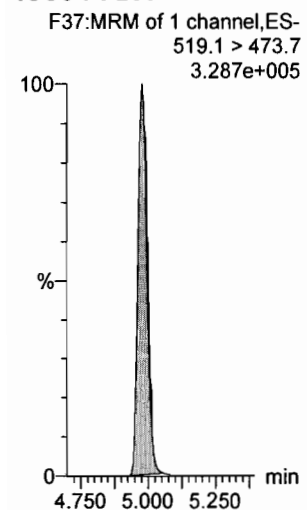
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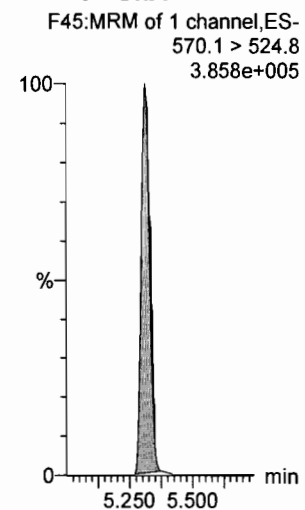
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**13C6-PFDA**



**13C7-PFUnA**



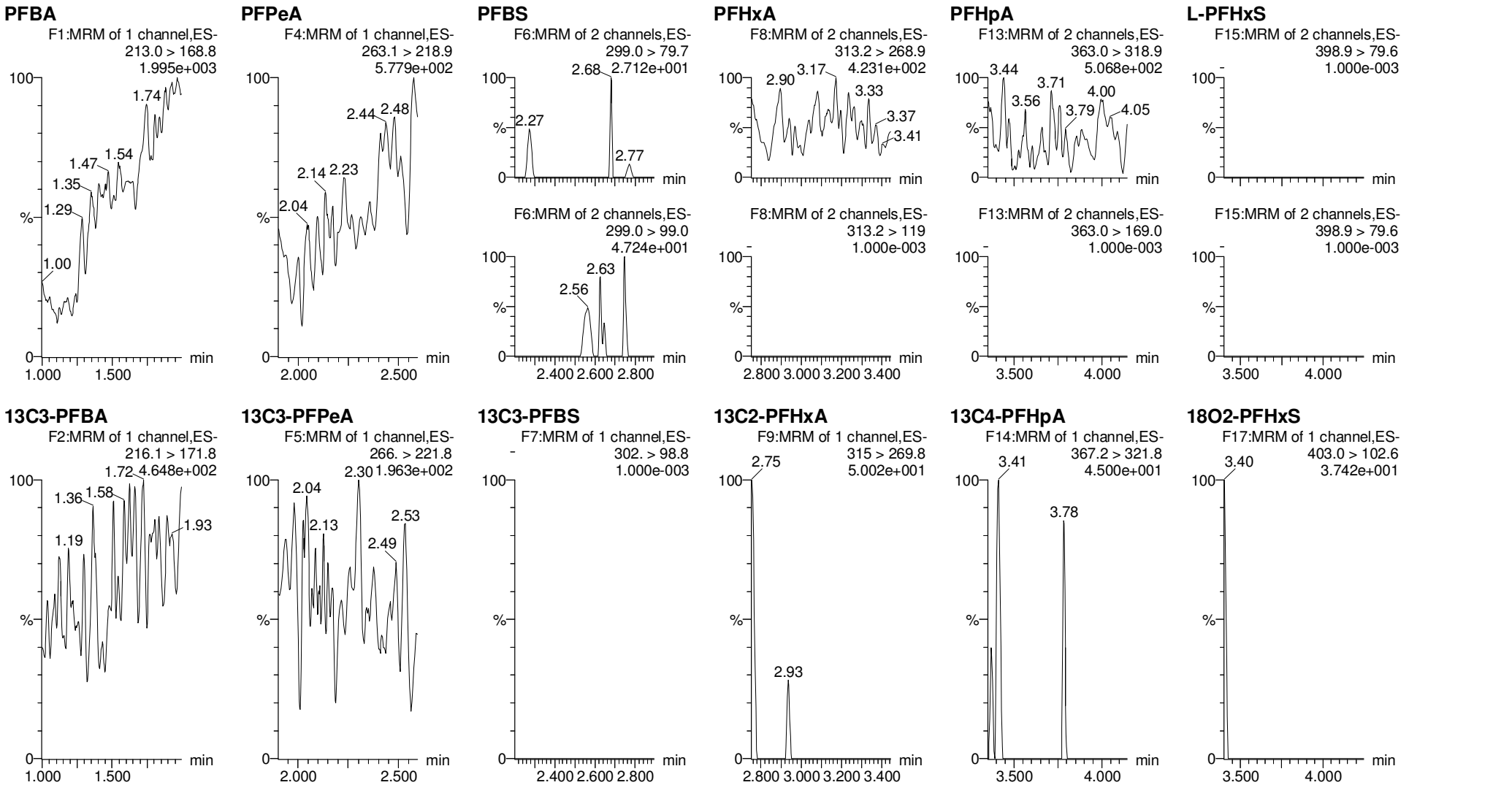
Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Thursday, October 26, 2017 16:58:39 Pacific Daylight Time  
Printed:        Thursday, October 26, 2017 16:59:18 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102517.mdb 26 Oct 2017 08:20:12  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-26-17-FULL\_NOPFODA.cdb 26 Oct 2017 16:54:06

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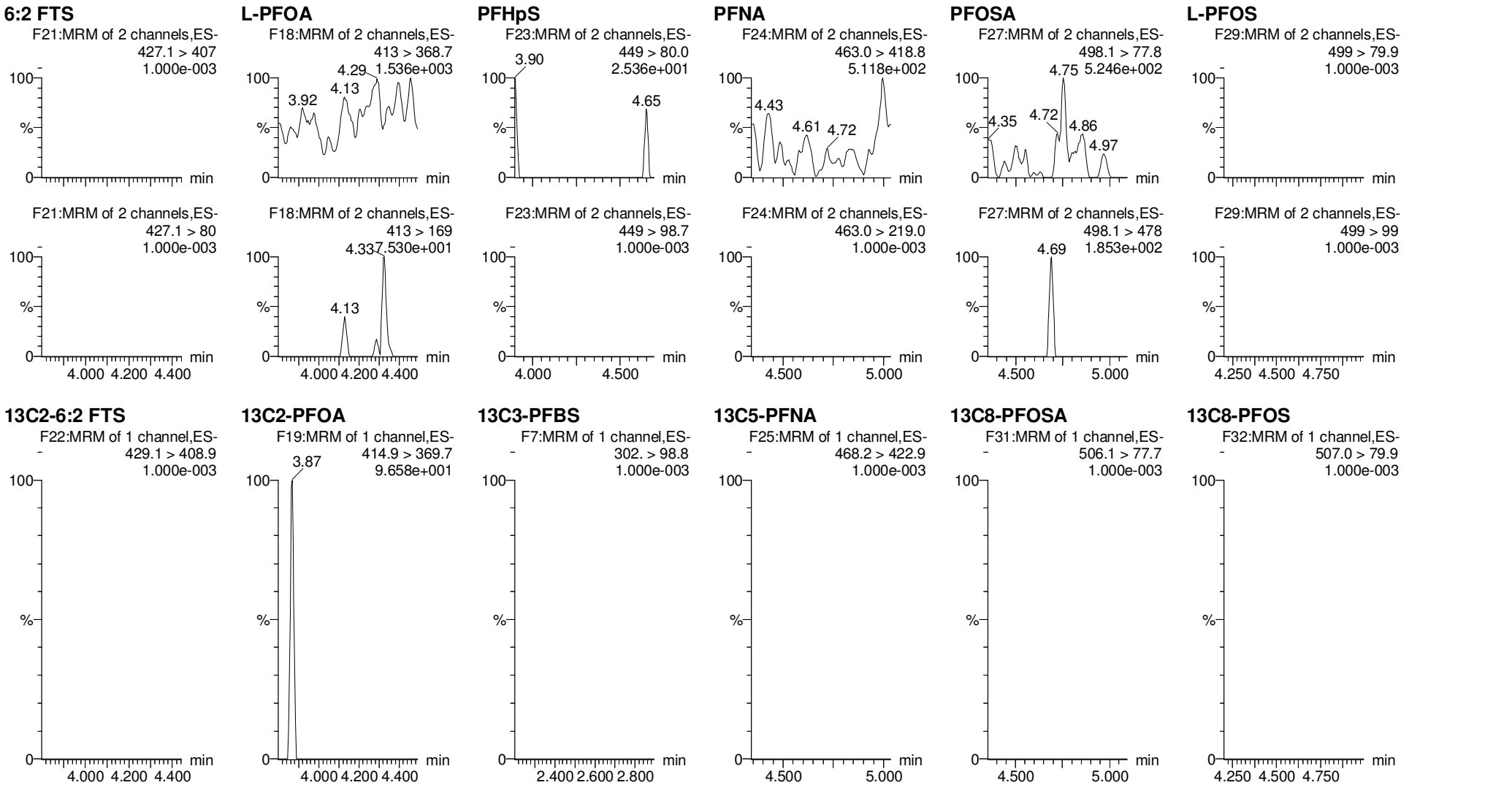


Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Thursday, October 26, 2017 16:58:39 Pacific Daylight Time  
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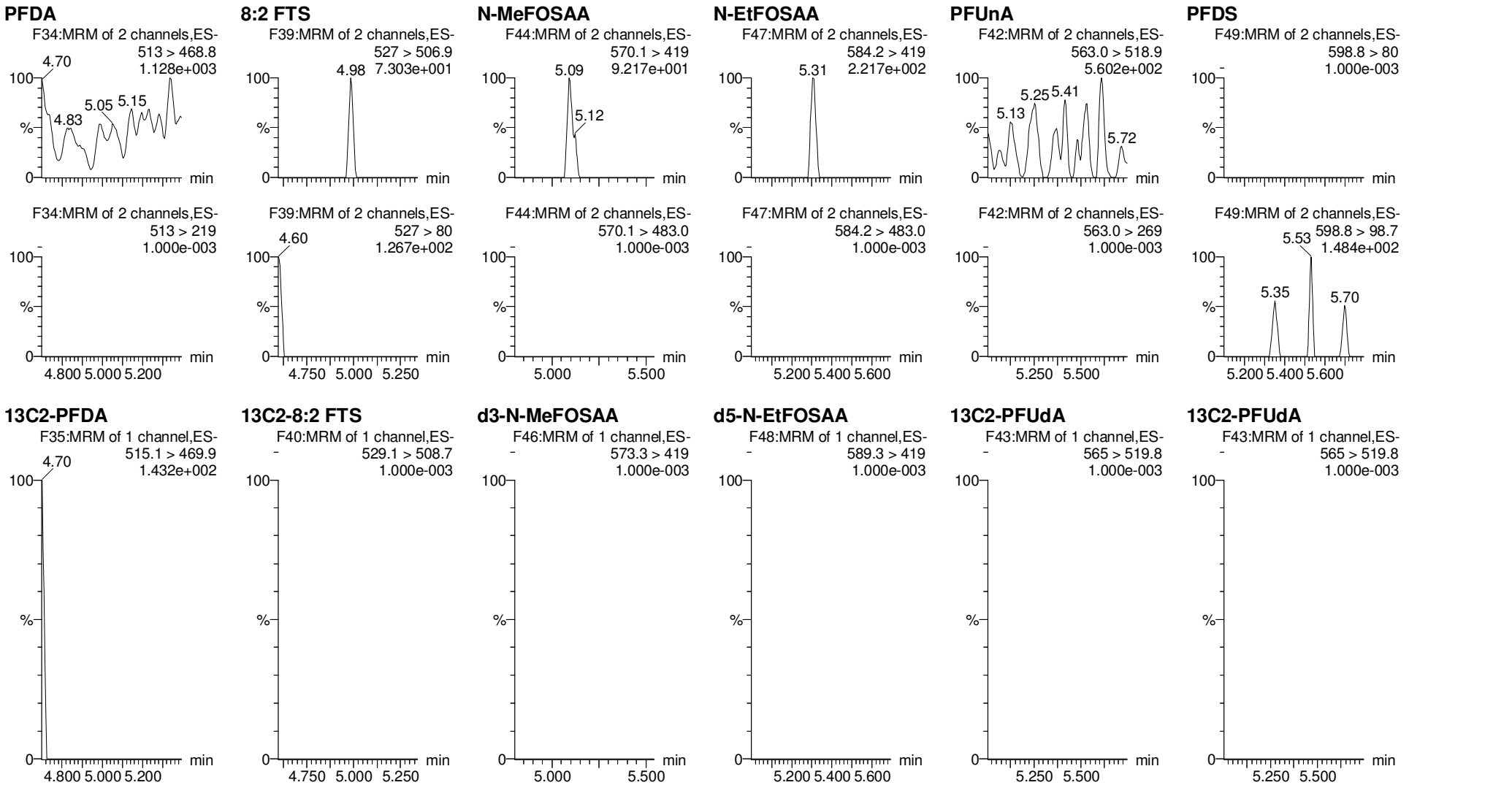


Vista Analytical Laboratory

Dataset:       Untitled

Last Altered:   Thursday, October 26, 2017 16:58:39 Pacific Daylight Time  
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Name: 171026M1\_12, Date: 26-Oct-2017, Time: 11:18:50, ID: IPA, Description: IPA

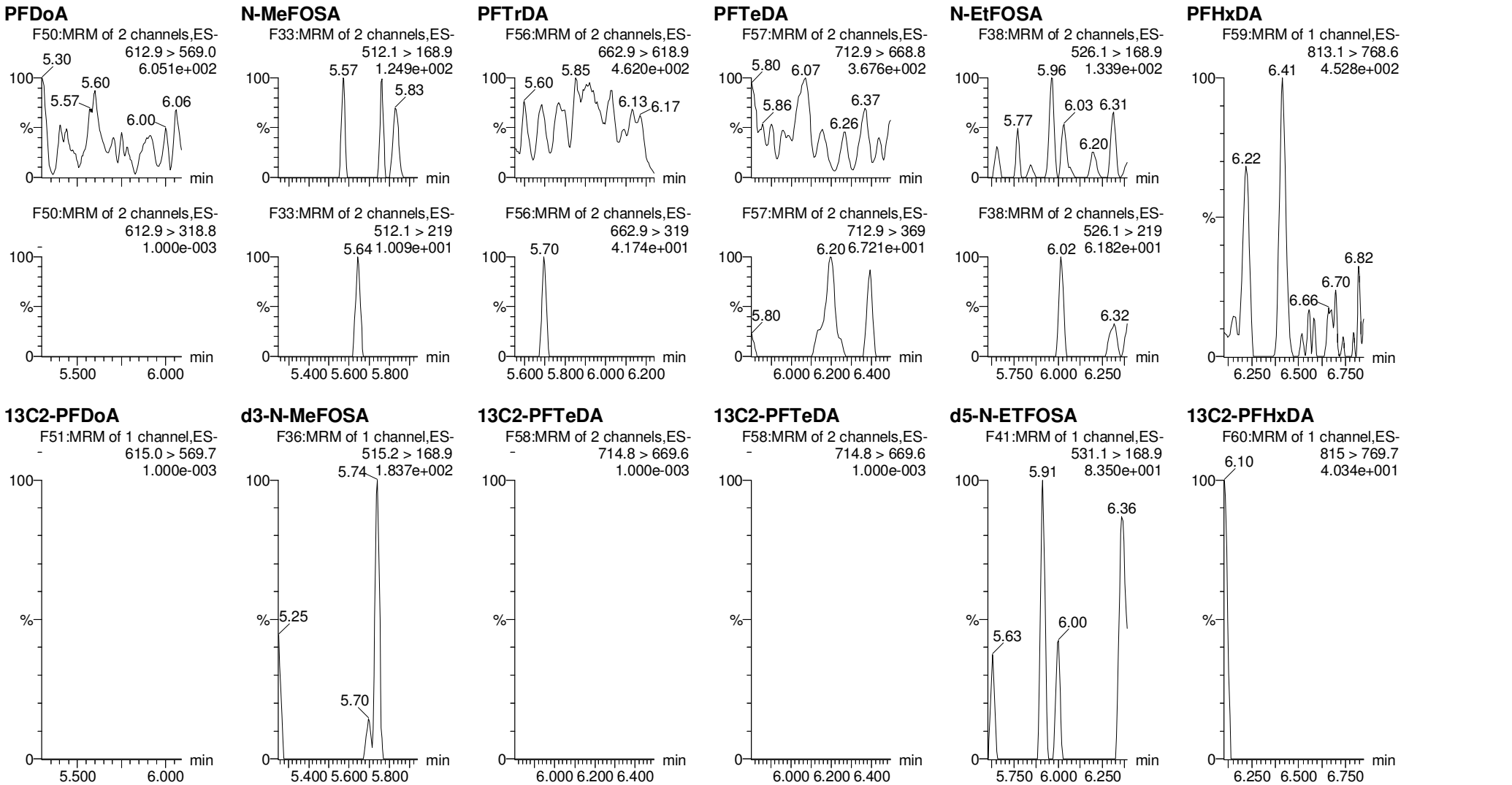


Vista Analytical Laboratory

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Name: 171026M1\_12, Date: 26-Oct-2017, Time: 11:18:50, ID: IPA, Description: IPA



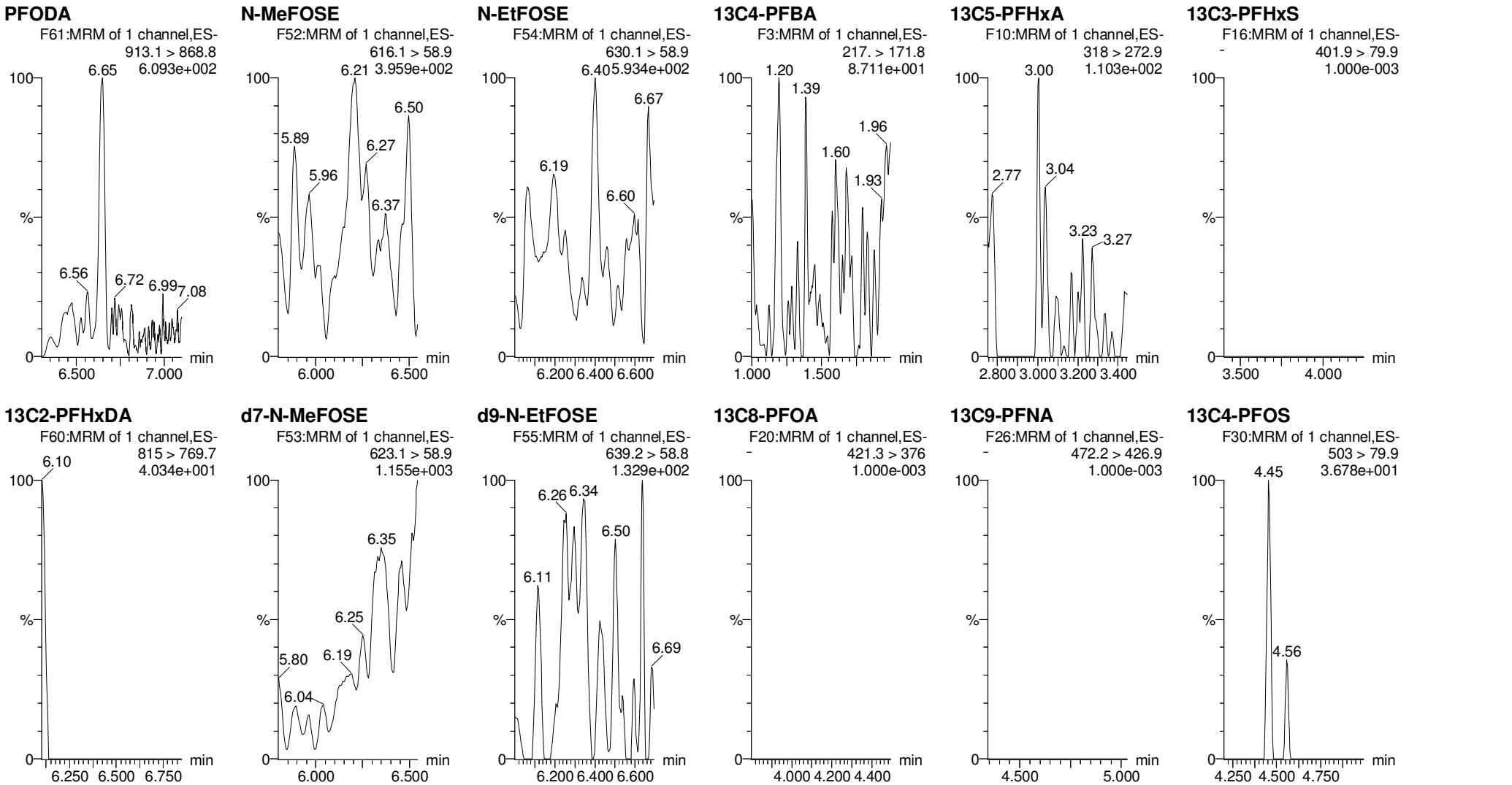


Vista Analytical Laboratory

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Last Altered:   Thursday, October 26, 2017 16:58:39 Pacific Daylight Time  
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Name: 171026M1\_12, Date: 26-Oct-2017, Time: 11:18:50, ID: IPA, Description: IPA

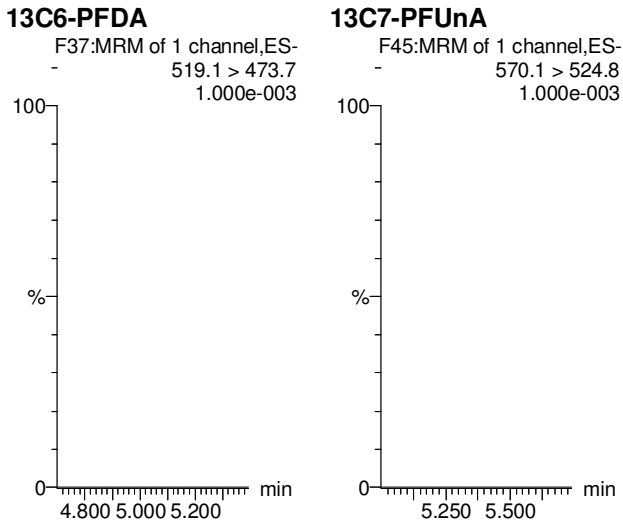


Vista Analytical Laboratory

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Last Altered:   Thursday, October 26, 2017 16:58:39 Pacific Daylight Time  
Printed:        Thursday, October 26, 2017 16:59:18 Pacific Daylight Time

Name: 171026M1\_12, Date: 26-Oct-2017, Time: 11:18:50, ID: IPA, Description: IPA



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 31 Oct 2017 10:25:33

Calibration: 01 Nov 2017 08:21:58 C18-VAL-PFAS-04-10-31-17-FULL-OLD

**Compound name: PFBA**Correlation coefficient:  $r = 0.999738$ ,  $r^2 = 0.999476$ Calibration curve:  $1.06856 * x + 0.0388677$ 

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

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

dm  
tot 11/1/17  
an 11/1/17  
v JH 11/01/2017

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171031M1_2	Standard	0.250	1.15	153.879	5681.744	0.339	0.3	12.2	NO	0.999	NO	MM
2	2 171031M1_3	Standard	0.500	1.10	261.266	6501.426	0.502	0.4	-13.3	NO	0.999	NO	MM
3	3 171031M1_4	Standard	1.000	1.07	573.102	6527.458	1.097	1.0	-0.9	NO	0.999	NO	bb
4	4 171031M1_5	Standard	2.000	1.10	1260.548	6582.637	2.394	2.2	10.2	NO	0.999	NO	bb
5	5 171031M1_6	Standard	5.000	1.08	2948.346	6530.870	5.643	5.2	4.9	NO	0.999	NO	bb
6	6 171031M1_7	Standard	10.000	1.09	5426.435	6416.130	10.572	9.9	-1.4	NO	0.999	NO	bb
7	7 171031M1_8	Standard	50.000	1.09	28161.836	6484.366	54.288	50.8	1.5	NO	0.999	NO	MM
8	8 171031M1_9	Standard	100.000	1.09	53423.398	6067.397	110.062	103.0	3.0	NO	0.999	NO	bb
9	9 171031M1_10	Standard	250.000	1.09	132659.453	6307.260	262.910	246.0	-1.6	NO	0.999	NO	MM

**Compound name: PFPeA**Correlation coefficient:  $r = 0.999844$ ,  $r^2 = 0.999687$ Calibration curve:  $0.95039 * x + 0.0982843$ 

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 171031M1_2	Standard	0.250	2.10	171.908	6278.785	0.342	0.3	2.7	NO	1.000	NO	MM
2	2 171031M1_3	Standard	0.500	2.06	298.917	7104.250	0.526	0.4	-10.0	NO	1.000	NO	bb
3	3 171031M1_4	Standard	1.000	2.04	559.784	6759.347	1.035	1.0	-1.4	NO	1.000	NO	bb
4	4 171031M1_5	Standard	2.000	2.05	1119.602	6829.161	2.049	2.1	2.6	NO	1.000	NO	bb
5	5 171031M1_6	Standard	5.000	2.04	2694.035	6870.994	4.901	5.1	1.1	NO	1.000	NO	bb
6	6 171031M1_7	Standard	10.000	2.05	5455.381	6958.893	9.799	10.2	2.1	NO	1.000	NO	bb
7	7 171031M1_8	Standard	50.000	2.05	26336.158	6759.594	48.701	51.1	2.3	NO	1.000	NO	bb
8	8 171031M1_9	Standard	100.000	2.05	48687.379	6268.124	97.093	102.1	2.1	NO	1.000	NO	bb
9	9 171031M1_10	Standard	250.000	2.04	118874.586	6338.958	234.413	246.5	-1.4	NO	1.000	NO	bb

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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFBS**Correlation coefficient:  $r = 0.998677$ ,  $r^2 = 0.997355$ Calibration curve:  $2.01352 * x + 0.191925$ 

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 171031M1_2	Standard	0.250	2.39	32.129	688.358	0.583	0.2	-22.2	NO	0.997	NO	MM
2	2 171031M1_3	Standard	0.500	2.35	68.250	780.678	1.093	0.4	-10.5	NO	0.997	NO	bb
3	3 171031M1_4	Standard	1.000	2.34	135.287	753.021	2.246	1.0	2.0	NO	0.997	NO	bb
4	4 171031M1_5	Standard	2.000	2.34	297.678	742.446	5.012	2.4	19.7	NO	0.997	NO	bb
5	5 171031M1_6	Standard	5.000	2.34	677.897	796.599	10.637	5.2	3.8	NO	0.997	NO	bb
6	6 171031M1_7	Standard	10.000	2.34	1326.434	784.881	21.125	10.4	4.0	NO	0.997	NO	bb
7	7 171031M1_8	Standard	50.000	2.34	6743.358	761.174	110.739	54.9	9.8	NO	0.997	NO	bb
8	8 171031M1_9	Standard	100.000	2.33	11668.234	777.412	187.613	93.1	-6.9	NO	0.997	NO	bb
9	9 171031M1_10	Standard	250.000	2.34	29680.076	733.437	505.839	251.1	0.5	NO	0.997	NO	bb

**Compound name: PFHxA**Correlation coefficient:  $r = 0.998612$ ,  $r^2 = 0.997226$ Calibration curve:  $1.40323 * x + 0.202144$ 

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 171031M1_2	Standard	0.250	2.88	232.930	2384.504	0.488	0.2	-18.4	NO	0.997	NO	MM
2	2 171031M1_3	Standard	0.500	2.85	435.232	2709.806	0.803	0.4	-14.4	NO	0.997	NO	bb
3	3 171031M1_4	Standard	1.000	2.83	793.895	2400.978	1.653	1.0	3.4	NO	0.997	NO	bb
4	4 171031M1_5	Standard	2.000	2.83	1654.046	2626.430	3.149	2.1	5.0	NO	0.997	NO	bb
5	5 171031M1_6	Standard	5.000	2.83	4328.878	2766.778	7.823	5.4	8.6	NO	0.997	NO	bb
6	6 171031M1_7	Standard	10.000	2.83	8221.420	2605.448	15.777	11.1	11.0	NO	0.997	NO	bb
7	7 171031M1_8	Standard	50.000	2.83	38590.754	2715.844	71.047	50.5	1.0	NO	0.997	NO	bb
8	8 171031M1_9	Standard	100.000	2.83	74838.055	2475.010	151.187	107.6	7.6	NO	0.997	NO	bb
9	9 171031M1_10	Standard	250.000	2.83	175556.516	2600.894	337.493	240.4	-3.9	NO	0.997	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFHpA**

Correlation coefficient:  $r = 0.999826$ ,  $r^2 = 0.999651$

Calibration curve:  $1.29101 * x + 0.123326$

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 171031M1_2	Standard	0.250	3.51	202.985	5735.094	0.442	0.2	-1.1	NO	1.000	NO	bb
2	2 171031M1_3	Standard	0.500	3.47	345.688	6010.148	0.719	0.5	-7.7	NO	1.000	NO	bb
3	3 171031M1_4	Standard	1.000	3.46	706.153	6161.061	1.433	1.0	1.4	NO	1.000	NO	bb
4	4 171031M1_5	Standard	2.000	3.46	1422.494	6429.838	2.765	2.0	2.3	NO	1.000	NO	bb
5	5 171031M1_6	Standard	5.000	3.46	3399.143	6283.539	6.762	5.1	2.8	NO	1.000	NO	MM
6	6 171031M1_7	Standard	10.000	3.46	6601.609	6278.420	13.143	10.1	0.9	NO	1.000	NO	bb
7	7 171031M1_8	Standard	50.000	3.46	31122.873	6039.965	64.410	49.8	-0.4	NO	1.000	NO	bb
8	8 171031M1_9	Standard	100.000	3.46	63387.383	5949.417	133.180	103.1	3.1	NO	1.000	NO	bb
9	9 171031M1_10	Standard	250.000	3.46	148658.375	5827.636	318.865	246.9	-1.2	NO	1.000	NO	bb

**Compound name: L-PFHxS**

Correlation coefficient:  $r = 0.996867$ ,  $r^2 = 0.993744$

Calibration curve:  $2.01952 * x + 0.0727077$

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 171031M1_2	Standard	0.250	3.66	28.985	649.655	0.558	0.2	-3.9	NO	0.994	NO	MM
2	2 171031M1_3	Standard	0.500	3.62	58.737	668.312	1.099	0.5	1.6	NO	0.994	NO	MM
3	3 171031M1_4	Standard	1.000	3.62	78.075	618.725	1.577	0.7	-25.5	NO	0.994	NO	MM
4	4 171031M1_5	Standard	2.000	3.61	253.000	650.419	4.862	2.4	18.6	NO	0.994	NO	MM
5	5 171031M1_6	Standard	5.000	3.62	542.660	695.829	9.748	4.8	-4.2	NO	0.994	NO	MM
6	6 171031M1_7	Standard	10.000	3.61	1113.139	646.401	21.526	10.6	6.2	NO	0.994	NO	MM
7	7 171031M1_8	Standard	50.000	3.62	5193.124	645.383	100.582	49.8	-0.5	NO	0.994	NO	MM
8	8 171031M1_9	Standard	100.000	3.61	10900.779	597.037	228.227	113.0	13.0	NO	0.994	NO	MM
9	9 171031M1_10	Standard	250.000	3.62	23532.486	615.199	478.148	236.7	-5.3	NO	0.994	NO	MM

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 6:2 FTS**

Coefficient of Determination:  $R^2 = 0.997401$

Calibration curve:  $-0.00272723 * x^2 + 0.973281 * x + -0.00870889$

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 171031M1_2	Standard	0.250	3.98	27.338	1391.426	0.246	0.3	4.6	NO	0.997	NO	MM
2	2 171031M1_3	Standard	0.500	3.94	74.124	1783.023	0.520	0.5	8.7	NO	0.997	NO	MM
3	3 171031M1_4	Standard	1.000	3.93	140.061	1706.995	1.026	1.1	6.6	NO	0.997	NO	bb
4	4 171031M1_5	Standard	2.000	3.93	280.315	1871.369	1.872	1.9	-2.8	NO	0.997	NO	bb
5	5 171031M1_6	Standard	5.000	3.93	564.158	1780.975	3.960	4.1	-17.5	NO	0.997	NO	bb
6	6 171031M1_7	Standard	10.000	3.93	1386.046	1894.751	9.144	9.7	-3.3	NO	0.997	NO	bb
7	7 171031M1_8	Standard	50.000	3.93	7470.005	2129.841	43.841	52.9	5.8	NO	0.997	NO	bb
8	8 171031M1_9	Standard	100.000	3.93	13378.071	2419.446	69.117	97.9	-2.1	NO	0.997	NO	bb
9	9 171031M1_10	Standard	250.000	3.93	29064.654	3218.971	112.865			NO	0.997	NO	bbXI

**Compound name: L-PFOA**

Correlation coefficient:  $r = 0.997771$ ,  $r^2 = 0.995546$

Calibration curve:  $0.943455 * x + 0.316537$

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 171031M1_2	Standard	0.250	4.04	349.354	7934.241	0.550	0.2	-0.9	NO	0.996	NO	bb
2	2 171031M1_3	Standard	0.500	4.00	501.178	8745.764	0.716	0.4	-15.3	NO	0.996	NO	bb
3	3 171031M1_4	Standard	1.000	3.99	854.147	9029.854	1.182	0.9	-8.2	NO	0.996	NO	bb
4	4 171031M1_5	Standard	2.000	3.99	1601.253	8565.783	2.337	2.1	7.1	NO	0.996	NO	bb
5	5 171031M1_6	Standard	5.000	3.99	3730.852	9169.785	5.086	5.1	1.1	NO	0.996	NO	bb
6	6 171031M1_7	Standard	10.000	3.99	6855.419	8262.648	10.371	10.7	6.6	NO	0.996	NO	bb
7	7 171031M1_8	Standard	50.000	3.99	30963.996	7764.311	49.850	52.5	5.0	NO	0.996	NO	bb
8	8 171031M1_9	Standard	100.000	3.99	69625.922	8377.454	103.889	109.8	9.8	NO	0.996	NO	bb
9	9 171031M1_10	Standard	250.000	3.99	162899.641	9092.846	223.939	237.0	-5.2	NO	0.996	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFHpS**

Coefficient of Determination:  $R^2 = 0.997276$

Calibration curve:  $-3.99694e-005 * x^2 + 0.183931 * x + 0.00205894$

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 171031M1_2	Standard	0.250	4.15	39.027	7934.241	0.061	0.3	29.2	NO	0.997	NO	MM
2	2 171031M1_3	Standard	0.500	4.12	57.728	8745.764	0.083	0.4	-12.5	NO	0.997	NO	MM
3	3 171031M1_4	Standard	1.000	4.11	113.362	9029.854	0.157	0.8	-15.8	NO	0.997	NO	bb
4	4 171031M1_5	Standard	2.000	4.11	244.912	8565.783	0.357	1.9	-3.4	NO	0.997	NO	bb
5	5 171031M1_6	Standard	5.000	4.11	696.652	9169.785	0.950	5.2	3.2	NO	0.997	NO	bb
6	6 171031M1_7	Standard	10.000	4.11	1143.305	8262.648	1.730	9.4	-5.9	NO	0.997	NO	bb
7	7 171031M1_8	Standard	50.000	4.11	6257.199	7764.311	10.074	55.4	10.9	NO	0.997	NO	bb
8	8 171031M1_9	Standard	100.000	4.11	11316.866	8377.454	16.886	93.7	-6.3	NO	0.997	NO	bb
9	9 171031M1_10	Standard	250.000	4.11	31817.225	9092.846	43.739	251.5	0.6	NO	0.997	NO	bb

**Compound name: PFNA**

Correlation coefficient:  $r = 0.998949$ ,  $r^2 = 0.997900$

Calibration curve:  $1.25666 * x + -0.0468814$

Response type: Internal Std ( Ref 39 ), 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 171031M1_2	Standard	0.250	4.48	201.784	7267.375	0.347	0.3	25.4	NO	0.998	NO	MM
2	2 171031M1_3	Standard	0.500	4.44	325.620	7363.853	0.553	0.5	-4.6	NO	0.998	NO	bb
3	3 171031M1_4	Standard	1.000	4.44	659.598	7012.465	1.176	1.0	-2.7	NO	0.998	NO	bb
4	4 171031M1_5	Standard	2.000	4.44	1519.270	8090.482	2.347	1.9	-4.7	NO	0.998	NO	bb
5	5 171031M1_6	Standard	5.000	4.44	3769.106	8176.660	5.762	4.6	-7.6	NO	0.998	NO	bb
6	6 171031M1_7	Standard	10.000	4.44	7686.453	7448.899	12.899	10.3	3.0	NO	0.998	NO	bb
7	7 171031M1_8	Standard	50.000	4.44	34518.668	7447.263	57.939	46.1	-7.7	NO	0.998	NO	bb
8	8 171031M1_9	Standard	100.000	4.44	64070.883	6680.167	119.890	95.4	-4.6	NO	0.998	NO	bb
9	9 171031M1_10	Standard	250.000	4.44	169894.625	6536.574	324.892	258.6	3.4	NO	0.998	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFOSA**

Correlation coefficient:  $r = 0.997159$ ,  $r^2 = 0.994326$

Calibration curve:  $1.07115 * x + 0.04065$

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 171031M1_2	Standard	0.250	4.54	36.714	1492.771	0.307	0.2	-0.4	NO	0.994	NO	MM
2	2 171031M1_3	Standard	0.500	4.50	116.346	2163.038	0.672	0.6	17.9	NO	0.994	NO	bb
3	3 171031M1_4	Standard	1.000	4.50	171.291	2040.950	1.049	0.9	-5.9	NO	0.994	NO	bb
4	4 171031M1_5	Standard	2.000	4.50	379.021	2051.817	2.309	2.1	5.9	NO	0.994	NO	bb
5	5 171031M1_6	Standard	5.000	4.50	860.242	2306.300	4.662	4.3	-13.7	NO	0.994	NO	bb
6	6 171031M1_7	Standard	10.000	4.49	1496.136	1967.677	9.504	8.8	-11.6	NO	0.994	NO	bb
7	7 171031M1_8	Standard	50.000	4.50	7218.330	1695.327	53.222	49.6	-0.7	NO	0.994	NO	bb
8	8 171031M1_9	Standard	100.000	4.49	16278.339	1684.739	120.778	112.7	12.7	NO	0.994	NO	bb
9	9 171031M1_10	Standard	250.000	4.50	38711.664	1887.221	256.407	239.3	-4.3	NO	0.994	NO	bb

**Compound name: L-PFOS**

Correlation coefficient:  $r = 0.999334$ ,  $r^2 = 0.998668$

Calibration curve:  $1.01722 * x + -0.0414285$

Response type: Internal Std ( Ref 41 ), 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 171031M1_2	Standard	0.250	4.57	37.054	1859.624	0.249	0.3	14.2	NO	0.999	NO	MM
2	2 171031M1_3	Standard	0.500	4.53	81.539	1937.648	0.526	0.6	11.6	NO	0.999	NO	MM
3	3 171031M1_4	Standard	1.000	4.53	143.773	1851.665	0.971	1.0	-0.5	NO	0.999	NO	MM
4	4 171031M1_5	Standard	2.000	4.53	298.537	2059.767	1.812	1.8	-8.9	NO	0.999	NO	MM
5	5 171031M1_6	Standard	5.000	4.53	737.166	2120.759	4.345	4.3	-13.8	NO	0.999	NO	MM
6	6 171031M1_7	Standard	10.000	4.53	1277.119	1912.542	8.347	8.2	-17.5	NO	0.999	NO	MM
7	7 171031M1_8	Standard	50.000	4.53	7388.508	1864.678	49.529	48.7	-2.5	NO	0.999	NO	MM
8	8 171031M1_9	Standard	100.000	4.53	14162.373	1751.382	101.080	99.4	-0.6	NO	0.999	NO	MM
9	9 171031M1_10	Standard	250.000	4.53	33970.090	1641.193	258.730	254.4	1.8	NO	0.999	NO	MM



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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFDA**Correlation coefficient:  $r = 0.999473$ ,  $r^2 = 0.998946$ Calibration curve:  $1.28134 * x + 0.0315821$ 

Response type: Internal Std ( Ref 42 ), 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 171031M1_2	Standard	0.250	4.85	239.407	7145.477	0.419	0.3	20.9	NO	0.999	NO	MM
2	2 171031M1_3	Standard	0.500	4.83	371.599	7574.697	0.613	0.5	-9.2	NO	0.999	NO	MM
3	3 171031M1_4	Standard	1.000	4.82	881.430	8647.730	1.274	1.0	-3.0	NO	0.999	NO	bb
4	4 171031M1_5	Standard	2.000	4.83	1914.807	8337.258	2.871	2.2	10.8	NO	0.999	NO	bb
5	5 171031M1_6	Standard	5.000	4.82	3905.175	7915.097	6.167	4.8	-4.2	NO	0.999	NO	bb
6	6 171031M1_7	Standard	10.000	4.83	8371.640	9131.245	11.460	8.9	-10.8	NO	0.999	NO	bb
7	7 171031M1_8	Standard	50.000	4.82	40900.660	8341.659	61.290	47.8	-4.4	NO	0.999	NO	bb
8	8 171031M1_9	Standard	100.000	4.83	76433.445	7622.616	125.340	97.8	-2.2	NO	0.999	NO	bb
9	9 171031M1_10	Standard	250.000	4.83	180023.813	6872.966	327.413	255.5	2.2	NO	0.999	NO	bb

**Compound name: 8:2 FTS**Coefficient of Determination:  $R^2 = 0.996235$ Calibration curve:  $-0.00453751 * x^2 + 1.47718 * x + -0.0973776$ 

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 171031M1_2	Standard	0.250	4.83	65.123	1442.480	0.564	0.4	79.4	NO	0.996	NO	bbX
2	2 171031M1_3	Standard	0.500	4.79	102.447	1803.926	0.710	0.5	9.5	NO	0.996	NO	bb
3	3 171031M1_4	Standard	1.000	4.80	156.067	1393.365	1.400	1.0	1.7	NO	0.996	NO	bb
4	4 171031M1_5	Standard	2.000	4.79	348.723	1675.058	2.602	1.8	-8.1	NO	0.996	NO	bb
5	5 171031M1_6	Standard	5.000	4.79	839.326	1904.943	5.508	3.8	-23.2	NO	0.996	NO	bb
6	6 171031M1_7	Standard	10.000	4.79	1836.806	1553.782	14.777	10.4	4.0	NO	0.996	NO	bb
7	7 171031M1_8	Standard	50.000	4.79	8494.477	1637.058	64.861	52.4	4.8	NO	0.996	NO	bb
8	8 171031M1_9	Standard	100.000	4.79	17873.230	2210.796	101.057	97.9	-2.1	NO	0.996	NO	bb
9	9 171031M1_10	Standard	250.000	4.79	38514.566	2901.082	165.949			NO	0.996	NO	bbXI

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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

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**Compound name: N-MeFOSAA**Coefficient of Determination:  $R^2 = 0.998527$ Calibration curve:  $-0.00061126 * x^2 + 1.44366 * x + 0.138034$ 

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 171031M1_2	Standard	0.250	5.01	118.513	3075.407	0.482	0.2	-4.8	NO	0.999	NO	bb
2	2 171031M1_3	Standard	0.500	4.99	215.609	3851.943	0.700	0.4	-22.2	NO	0.999	NO	bb
3	3 171031M1_4	Standard	1.000	4.98	470.854	3434.018	1.714	1.1	9.2	NO	0.999	NO	bb
4	4 171031M1_5	Standard	2.000	4.98	750.749	3484.427	2.693	1.8	-11.4	NO	0.999	NO	bb
5	5 171031M1_6	Standard	5.000	4.98	2346.063	3316.072	8.844	6.0	20.9	NO	0.999	NO	bb
6	6 171031M1_7	Standard	10.000	4.98	4347.034	3387.262	16.042	11.1	10.7	NO	0.999	NO	bb
7	7 171031M1_8	Standard	50.000	4.98	20170.664	3537.138	71.282	50.4	0.7	NO	0.999	NO	bb
8	8 171031M1_9	Standard	100.000	4.98	35111.871	3288.611	133.460	96.3	-3.7	NO	0.999	NO	bb
9	9 171031M1_10	Standard	250.000	4.98	86532.555	3331.907	324.636	251.6	0.6	NO	0.999	NO	bb

**Compound name: N-EtFOSAA**Correlation coefficient:  $r = 0.995319$ ,  $r^2 = 0.990659$ Calibration curve:  $1.17468 * x + -0.0150013$ 

Response type: Internal Std ( Ref 45 ), 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 171031M1_2	Standard	0.250	5.17	62.526	3420.794	0.228	0.2	-17.1	NO	0.991	NO	bb
2	2 171031M1_3	Standard	0.500	5.15	191.271	3359.667	0.712	0.6	23.7	NO	0.991	NO	bb
3	3 171031M1_4	Standard	1.000	5.14	324.952	3890.687	1.044	0.9	-9.8	NO	0.991	NO	bb
4	4 171031M1_5	Standard	2.000	5.14	770.836	3644.828	2.644	2.3	13.2	NO	0.991	NO	bb
5	5 171031M1_6	Standard	5.000	5.15	1545.738	4390.306	4.401	3.8	-24.8	NO	0.991	NO	bb
6	6 171031M1_7	Standard	10.000	5.14	3679.203	3847.179	11.954	10.2	1.9	NO	0.991	NO	bb
7	7 171031M1_8	Standard	50.000	5.14	16059.152	3517.122	57.075	48.6	-2.8	NO	0.991	NO	bb
8	8 171031M1_9	Standard	100.000	5.14	32652.803	2987.895	136.605	116.3	16.3	NO	0.991	NO	bb
9	9 171031M1_10	Standard	250.000	5.14	74233.180	3348.685	277.098	235.9	-5.6	NO	0.991	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFUDa**

Coefficient of Determination:  $R^2 = 0.998778$

Calibration curve:  $-5.23555e-005 * x^2 + 0.962109 * x + 0.0759805$

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 171031M1_2	Standard	0.250	5.18	247.472	9738.930	0.318	0.3	0.5	NO	0.999	NO	MM
2	2 171031M1_3	Standard	0.500	5.17	398.495	9554.212	0.521	0.5	-7.4	NO	0.999	NO	bb
3	3 171031M1_4	Standard	1.000	5.16	768.983	8696.637	1.105	1.1	7.0	NO	0.999	NO	bb
4	4 171031M1_5	Standard	2.000	5.16	1646.355	10075.132	2.043	2.0	2.2	NO	0.999	NO	bb
5	5 171031M1_6	Standard	5.000	5.16	3929.417	8770.748	5.600	5.7	14.9	NO	0.999	NO	bb
6	6 171031M1_7	Standard	10.000	5.16	6427.294	10143.998	7.920	8.2	-18.4	NO	0.999	NO	bb
7	7 171031M1_8	Standard	50.000	5.16	33360.352	8695.222	47.958	49.9	-0.2	NO	0.999	NO	bb
8	8 171031M1_9	Standard	100.000	5.16	65607.578	8417.339	97.429	101.8	1.8	NO	0.999	NO	bb
9	9 171031M1_10	Standard	250.000	5.16	154653.641	8165.827	236.739	249.4	-0.3	NO	0.999	NO	bb

**Compound name: PFDS**

Coefficient of Determination:  $R^2 = 0.999698$

Calibration curve:  $-2.28699e-006 * x^2 + 0.226098 * x + -0.0396467$

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 171031M1_2	Standard	0.250	5.23	10.806	9738.930	0.014	0.2	-5.3	NO	1.000	NO	MM
2	2 171031M1_3	Standard	0.500	5.22	53.313	9554.212	0.070	0.5	-3.2	NO	1.000	NO	MM
3	3 171031M1_4	Standard	1.000	5.21	125.420	8696.637	0.180	1.0	-2.7	NO	1.000	NO	bb
4	4 171031M1_5	Standard	2.000	5.21	407.262	10075.132	0.505	2.4	20.5	NO	1.000	NO	bb
5	5 171031M1_6	Standard	5.000	5.21	711.767	8770.748	1.014	4.7	-6.8	NO	1.000	NO	bb
6	6 171031M1_7	Standard	10.000	5.21	1743.288	10143.998	2.148	9.7	-3.2	NO	1.000	NO	bb
7	7 171031M1_8	Standard	50.000	5.21	7899.934	8695.222	11.357	50.4	0.9	NO	1.000	NO	bb
8	8 171031M1_9	Standard	100.000	5.21	15169.508	8417.339	22.527	99.9	-0.1	NO	1.000	NO	bb
9	9 171031M1_10	Standard	250.000	5.21	36801.285	8165.827	56.334	250.0	-0.0	NO	1.000	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFDoA**

Coefficient of Determination:  $R^2 = 0.993286$

Calibration curve:  $-6.13859e-005 * x^2 + 1.22441 * x + 0.0900393$

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	171031M1_2	Standard	0.250	5.47	245.127	8973.643	0.341	0.2	-17.9	NO	0.993	NO	MM
2	2	171031M1_3	Standard	0.500	5.46	444.153	9276.800	0.598	0.4	-16.9	NO	0.993	NO	bd
3	3	171031M1_4	Standard	1.000	5.45	1112.388	9088.354	1.530	1.2	17.6	NO	0.993	NO	bb
4	4	171031M1_5	Standard	2.000	5.45	2080.546	10505.300	2.476	1.9	-2.6	NO	0.993	NO	bd
5	5	171031M1_6	Standard	5.000	5.45	5553.628	10097.720	6.875	5.5	10.9	NO	0.993	NO	bd
6	6	171031M1_7	Standard	10.000	5.45	10044.343	8535.952	14.709	11.9	19.5	NO	0.993	NO	MM
7	7	171031M1_8	Standard	50.000	5.45	42867.844	10663.989	50.248	41.0	-17.9	NO	0.993	NO	bb
8	8	171031M1_9	Standard	100.000	5.45	92022.883	8742.194	131.579	108.0	8.0	NO	0.993	NO	bb
9	9	171031M1_10	Standard	250.000	5.45	180739.563	7516.635	300.566	248.5	-0.6	NO	0.993	NO	bb

**Compound name: N-MeFOSA**

Correlation coefficient:  $r = 0.999056$ ,  $r^2 = 0.998113$

Calibration curve:  $0.99285 * x + 0.328893$

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	171031M1_2	Standard	1.250	5.58	103.179	9392.646	1.648	1.3	6.3	NO	0.998	NO	bb
2	2	171031M1_3	Standard	2.500	5.52	230.474	11698.229	2.955	2.6	5.8	NO	0.998	NO	MM
3	3	171031M1_4	Standard	5.000	5.51	372.134	10823.978	5.157	4.9	-2.7	NO	0.998	NO	MM
4	4	171031M1_5	Standard	10.000	5.51	819.625	11408.556	10.776	10.5	5.2	NO	0.998	NO	bb
5	5	171031M1_6	Standard	25.000	5.51	1844.567	10812.815	25.589	25.4	1.8	NO	0.998	NO	MM
6	6	171031M1_7	Standard	50.000	5.51	3906.621	11180.341	52.413	52.5	4.9	NO	0.998	NO	bb
7	7	171031M1_8	Standard	250.000	5.51	17793.039	10530.616	253.447	254.9	2.0	NO	0.998	NO	bb
8	8	171031M1_9	Standard	500.000	5.51	35579.340	10080.462	529.430	532.9	6.6	NO	0.998	NO	MM
9	9	171031M1_10	Standard	1250.000	5.51	80108.445	10010.843	1200.325	1208.6	-3.3	NO	0.998	NO	bb

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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 09:42:13 Pacific Daylight Time

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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 31 Oct 2017 10:25:33

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

**Compound name: PFTrDA**Coefficient of Determination:  $R^2 = 0.992550$ Calibration curve:  $1.27931 * x$ 

Response type: Internal Std ( Ref 47 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171031M1_2	Standard	0.250	5.73	262.280	8973.643	0.365	0.3	14.2	NO	0.993	NO	MM
2	2 171031M1_3	Standard	0.500	5.72	584.844	9276.800	0.788	0.6	23.2	NO	0.993	NO	bb
3	3 171031M1_4	Standard	1.000	5.71	1041.562	9088.354	1.433	1.1	12.0	NO	0.993	NO	bb
4	4 171031M1_5	Standard	2.000	5.71	2131.957	10505.300	2.537	2.0	-0.9	NO	0.993	NO	bb
5	5 171031M1_6	Standard	5.000	5.71	5844.869	10097.720	7.235	5.7	13.1	NO	0.993	NO	bd
6	6 171031M1_7	Standard	10.000	5.71	10984.958	8535.952	16.086	12.6	25.7	NO	0.993	NO	bb
7	7 171031M1_8	Standard	50.000	5.71	46815.766	10663.989	54.876	42.9	-14.2	NO	0.993	NO	bb
8	8 171031M1_9	Standard	100.000	5.71	92389.688	8742.194	132.103	103.3	3.3	NO	0.993	NO	bb
9	9 171031M1_10	Standard	250.000	5.71	240781.859	7516.635	400.415	313.0	25.2	NO	0.993	NO	bbX

**Compound name: PFTeDA**Coefficient of Determination:  $R^2 = 0.999673$ Calibration curve:  $-0.000957767 * x^2 + 1.29262 * x + -0.00461528$ 

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 171031M1_2	Standard	0.250	5.95	268.496	9070.291	0.370	0.3	16.0	NO	1.000	NO	MM
2	2 171031M1_3	Standard	0.500	5.94	464.455	11052.117	0.525	0.4	-18.0	NO	1.000	NO	MM
3	3 171031M1_4	Standard	1.000	5.93	1023.883	9782.038	1.308	1.0	1.7	NO	1.000	NO	bb
4	4 171031M1_5	Standard	2.000	5.94	2131.989	10359.471	2.573	2.0	-0.2	NO	1.000	NO	bb
5	5 171031M1_6	Standard	5.000	5.94	4832.223	9972.630	6.057	4.7	-5.9	NO	1.000	NO	bb
6	6 171031M1_7	Standard	10.000	5.94	10591.471	9608.716	13.778	10.7	7.5	NO	1.000	NO	bb
7	7 171031M1_8	Standard	50.000	5.94	45568.859	9259.316	61.518	49.4	-1.2	NO	1.000	NO	bb
8	8 171031M1_9	Standard	100.000	5.94	89156.484	9302.396	119.803	100.1	0.1	NO	1.000	NO	bb
9	9 171031M1_10	Standard	250.000	5.94	181040.938	8593.112	263.352	250.1	0.0	NO	1.000	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: N-EtFOSA**

Coefficient of Determination:  $R^2 = 0.999831$

Calibration curve:  $-4.41537e-005 * x^2 + 0.910589 * x + 0.484101$

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 171031M1_2	Standard	1.250	6.00	153.117	13901.869	1.652	1.3	2.6	NO	1.000	NO	bb
2	2 171031M1_3	Standard	2.500	5.97	272.378	17096.633	2.390	2.1	-16.3	NO	1.000	NO	bb
3	3 171031M1_4	Standard	5.000	5.96	545.049	16828.123	4.858	4.8	-3.9	NO	1.000	NO	bb
4	4 171031M1_5	Standard	10.000	5.96	1238.934	17169.912	10.824	11.4	13.6	NO	1.000	NO	bb
5	5 171031M1_6	Standard	25.000	5.96	2654.813	16600.344	23.989	25.8	3.4	NO	1.000	NO	bb
6	6 171031M1_7	Standard	50.000	5.96	5304.547	17081.096	46.583	50.7	1.5	NO	1.000	NO	bb
7	7 171031M1_8	Standard	250.000	5.96	24333.527	16298.452	223.949	248.4	-0.6	NO	1.000	NO	bb
8	8 171031M1_9	Standard	500.000	5.96	45078.742	15259.872	443.111	498.1	-0.4	NO	1.000	NO	bb
9	9 171031M1_10	Standard	1250.000	5.96	102308.297	14334.034	1070.616	1251.1	0.1	NO	1.000	NO	bb

**Compound name: PFHxDA**

Coefficient of Determination:  $R^2 = 0.999773$

Calibration curve:  $-1.68772e-005 * x^2 + 0.569695 * x + 0.110552$

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 171031M1_2	Standard	0.250	6.30	134.220	2965.394	0.226	0.2	-18.7	NO	1.000	NO	bb
2	2 171031M1_3	Standard	0.500	6.30	306.653	3990.268	0.384	0.5	-3.9	NO	1.000	NO	bb
3	3 171031M1_4	Standard	1.000	6.29	501.658	3303.746	0.759	1.1	13.9	NO	1.000	NO	bb
4	4 171031M1_5	Standard	2.000	6.30	1129.883	4525.968	1.248	2.0	-0.1	NO	1.000	NO	bb
5	5 171031M1_6	Standard	5.000	6.29	2281.175	3660.271	3.116	5.3	5.5	NO	1.000	NO	bb
6	6 171031M1_7	Standard	10.000	6.29	5082.698	4204.542	6.044	10.4	4.2	NO	1.000	NO	bb
7	7 171031M1_8	Standard	50.000	6.29	25515.646	4441.032	28.727	50.3	0.6	NO	1.000	NO	bb
8	8 171031M1_9	Standard	100.000	6.29	44200.879	3948.273	55.975	98.3	-1.7	NO	1.000	NO	bb
9	9 171031M1_10	Standard	250.000	6.29	100865.922	3556.467	141.806	250.6	0.2	NO	1.000	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: PFODA**

Coefficient of Determination:  $R^2 = 0.999396$

Calibration curve:  $0.000959304 * x^2 + 0.407622 * x - 0.0239268$

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 171031M1_2	Standard	0.250	6.55	89.007	2965.394	0.150	0.4	70.6	NO	0.999	NO	bbX
2	2 171031M1_3	Standard	0.500	6.55	152.392	3990.268	0.191	0.5	5.3	NO	0.999	NO	bb
3	3 171031M1_4	Standard	1.000	6.54	282.941	3303.746	0.428	1.1	10.6	NO	0.999	NO	bb
4	4 171031M1_5	Standard	2.000	6.55	677.328	4525.968	0.748	1.9	-5.7	NO	0.999	NO	bb
5	5 171031M1_6	Standard	5.000	6.54	1210.663	3660.271	1.654	4.1	-18.5	NO	0.999	NO	bb
6	6 171031M1_7	Standard	10.000	6.54	3375.460	4204.542	4.014	9.7	-3.1	NO	0.999	NO	bb
7	7 171031M1_8	Standard	50.000	6.54	19505.232	4441.032	21.960	48.4	-3.2	NO	0.999	NO	bb
8	8 171031M1_9	Standard	100.000	6.54	41236.699	3948.273	52.221	103.1	3.1	NO	0.999	NO	bb
9	9 171031M1_10	Standard	250.000	6.54	114699.141	3556.467	161.254	249.3	-0.3	NO	0.999	NO	bb

**Compound name: N-MeFOSE**

Correlation coefficient:  $r = 0.996570$ ,  $r^2 = 0.993151$

Calibration curve:  $0.910887 * x + 0.561201$

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 171031M1_2	Standard	1.250	6.19	124.033	13124.170	1.418	0.9	-24.8	NO	0.993	NO	MM
2	2 171031M1_3	Standard	2.500	6.20	283.411	15410.882	2.759	2.4	-3.5	NO	0.993	NO	MM
3	3 171031M1_4	Standard	5.000	6.19	511.333	16129.054	4.755	4.6	-7.9	NO	0.993	NO	bb
4	4 171031M1_5	Standard	10.000	6.20	1104.509	16972.910	9.761	10.1	1.0	NO	0.993	NO	MM
5	5 171031M1_6	Standard	25.000	6.20	2682.080	14780.235	27.220	29.3	17.1	NO	0.993	NO	bb
6	6 171031M1_7	Standard	50.000	6.20	5001.466	16055.921	46.725	50.7	1.4	NO	0.993	NO	bd
7	7 171031M1_8	Standard	250.000	6.19	26665.461	14835.532	269.611	295.4	18.1	NO	0.993	NO	MM
8	8 171031M1_9	Standard	500.000	6.20	37148.656	11713.693	475.708	521.6	4.3	NO	0.993	NO	MM
9	9 171031M1_10	Standard	1250.000	6.19	102735.523	14345.026	1074.263	1178.7	-5.7	NO	0.993	NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: N-EtFOSE**

Correlation coefficient:  $r = 0.999631$ ,  $r^2 = 0.999262$

Calibration curve:  $1.00592 * x + 0.816282$

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 171031M1_2	Standard	1.250	6.35	142.814	11021.274	1.944	1.1	-10.3	NO	0.999	NO	MM
2	2 171031M1_3	Standard	2.500	6.35	268.158	13611.050	2.955	2.1	-14.9	NO	0.999	NO	MM
3	3 171031M1_4	Standard	5.000	6.35	601.760	14567.635	6.196	5.3	7.0	NO	0.999	NO	MM
4	4 171031M1_5	Standard	10.000	6.35	1225.812	15962.389	11.519	10.6	6.4	NO	0.999	NO	MM
5	5 171031M1_6	Standard	25.000	6.35	2691.773	15443.354	26.145	25.2	0.7	NO	0.999	NO	bb
6	6 171031M1_7	Standard	50.000	6.35	5608.070	14651.429	57.415	56.3	12.5	NO	0.999	NO	MM
7	7 171031M1_8	Standard	250.000	6.35	25879.797	15170.423	255.891	253.6	1.4	NO	0.999	NO	MM
8	8 171031M1_9	Standard	500.000	6.36	47818.434	14707.501	487.694	484.0	-3.2	NO	0.999	NO	MM
9	9 171031M1_10	Standard	1250.000	6.35	108556.992	12885.272	1263.733	1255.5	0.4	NO	0.999	NO	MM

**Compound name: 13C3-PFBA**

Response Factor: 0.94874

RRF SD: 0.0147158, Relative SD: 1.55109

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 171031M1_2	Standard	12.500	1.15	5681.744	5963.095	11.910	12.6	0.4	NO		NO	bb
2	2 171031M1_3	Standard	12.500	1.10	6501.426	6803.867	11.944	12.6	0.7	NO		NO	bb
3	3 171031M1_4	Standard	12.500	1.07	6527.458	6654.722	12.261	12.9	3.4	NO		NO	bb
4	4 171031M1_5	Standard	12.500	1.09	6582.637	7041.553	11.685	12.3	-1.5	NO		NO	bb
5	5 171031M1_6	Standard	12.500	1.08	6530.870	6915.432	11.805	12.4	-0.5	NO		NO	bb
6	6 171031M1_7	Standard	12.500	1.09	6416.130	6832.840	11.738	12.4	-1.0	NO		NO	bb
7	7 171031M1_8	Standard	12.500	1.09	6484.366	6879.583	11.782	12.4	-0.7	NO		NO	MM
8	8 171031M1_9	Standard	12.500	1.09	6067.397	6502.498	11.664	12.3	-1.6	NO		NO	bb
9	9 171031M1_10	Standard	12.500	1.08	6307.260	6600.681	11.944	12.6	0.7	NO		NO	MM



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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C3-PFPeA**

Response Factor: 0.781167

RRF SD: 0.0326889, Relative SD: 4.18463

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 171031M1_2	Standard	12.500	2.10	6278.785	7771.502	10.099	12.9	3.4	NO		NO	MM
2	2 171031M1_3	Standard	12.500	2.06	7104.250	9033.493	9.830	12.6	0.7	NO		NO	bb
3	3 171031M1_4	Standard	12.500	2.04	6759.347	8124.338	10.400	13.3	6.5	NO		NO	bb
4	4 171031M1_5	Standard	12.500	2.05	6829.161	8602.264	9.923	12.7	1.6	NO		NO	bb
5	5 171031M1_6	Standard	12.500	2.04	6870.994	9624.428	8.924	11.4	-8.6	NO		NO	bb
6	6 171031M1_7	Standard	12.500	2.05	6958.893	8956.964	9.712	12.4	-0.5	NO		NO	bb
7	7 171031M1_8	Standard	12.500	2.05	6759.594	8823.722	9.576	12.3	-1.9	NO		NO	bb
8	8 171031M1_9	Standard	12.500	2.05	6268.124	7955.587	9.849	12.6	0.9	NO		NO	bb
9	9 171031M1_10	Standard	12.500	2.05	6338.958	8281.060	9.568	12.2	-2.0	NO		NO	bb

**Compound name: 13C3-PFBS**

Response Factor: 0.0885487

RRF SD: 0.0043337, Relative SD: 4.89414

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 171031M1_2	Standard	12.500	2.39	688.358	7771.502	1.107	12.5	0.0	NO		NO	bb
2	2 171031M1_3	Standard	12.500	2.35	780.678	9033.493	1.080	12.2	-2.4	NO		NO	bb
3	3 171031M1_4	Standard	12.500	2.33	753.021	8124.338	1.159	13.1	4.7	NO		NO	bb
4	4 171031M1_5	Standard	12.500	2.34	742.446	8602.264	1.079	12.2	-2.5	NO		NO	bb
5	5 171031M1_6	Standard	12.500	2.34	796.599	9624.428	1.035	11.7	-6.5	NO		NO	bb
6	6 171031M1_7	Standard	12.500	2.34	784.881	8956.964	1.095	12.4	-1.0	NO		NO	bb
7	7 171031M1_8	Standard	12.500	2.34	761.174	8823.722	1.078	12.2	-2.6	NO		NO	bb
8	8 171031M1_9	Standard	12.500	2.33	777.412	7955.587	1.221	13.8	10.4	NO		NO	bb
9	9 171031M1_10	Standard	12.500	2.34	733.437	8281.060	1.107	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C2-PFHxA**

Response Factor: 0.755271

RRF SD: 0.0229973, Relative SD: 3.0449

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 171031M1_2	Standard	5.000	2.89	2384.504	7771.502	3.835	5.1	1.6	NO		NO	bb
2	2 171031M1_3	Standard	5.000	2.85	2709.806	9033.493	3.750	5.0	-0.7	NO		NO	bb
3	3 171031M1_4	Standard	5.000	2.83	2400.978	8124.338	3.694	4.9	-2.2	NO		NO	bb
4	4 171031M1_5	Standard	5.000	2.83	2626.430	8602.264	3.816	5.1	1.1	NO		NO	bb
5	5 171031M1_6	Standard	5.000	2.83	2766.778	9624.428	3.593	4.8	-4.8	NO		NO	bb
6	6 171031M1_7	Standard	5.000	2.83	2605.448	8956.964	3.636	4.8	-3.7	NO		NO	bb
7	7 171031M1_8	Standard	5.000	2.83	2715.844	8823.722	3.847	5.1	1.9	NO		NO	bb
8	8 171031M1_9	Standard	5.000	2.83	2475.010	7955.587	3.889	5.1	3.0	NO		NO	bb
9	9 171031M1_10	Standard	5.000	2.83	2600.894	8281.060	3.926	5.2	4.0	NO		NO	bb

**Compound name: 13C4-PFHpA**

Response Factor: 0.710999

RRF SD: 0.0386896, Relative SD: 5.44158

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 171031M1_2	Standard	12.500	3.51	5735.094	7771.502	9.225	13.0	3.8	NO		NO	bb
2	2 171031M1_3	Standard	12.500	3.47	6010.148	9033.493	8.316	11.7	-6.4	NO		NO	bb
3	3 171031M1_4	Standard	12.500	3.46	6161.061	8124.338	9.479	13.3	6.7	NO		NO	bb
4	4 171031M1_5	Standard	12.500	3.46	6429.838	8602.264	9.343	13.1	5.1	NO		NO	bb
5	5 171031M1_6	Standard	12.500	3.46	6283.539	9624.428	8.161	11.5	-8.2	NO		NO	bb
6	6 171031M1_7	Standard	12.500	3.46	6278.420	8956.964	8.762	12.3	-1.4	NO		NO	bb
7	7 171031M1_8	Standard	12.500	3.46	6039.965	8823.722	8.556	12.0	-3.7	NO		NO	bb
8	8 171031M1_9	Standard	12.500	3.46	5949.417	7955.587	9.348	13.1	5.2	NO		NO	bb
9	9 171031M1_10	Standard	12.500	3.46	5827.636	8281.060	8.797	12.4	-1.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 18O2-PFHxS**

Response Factor: 0.423321

RRF SD: 0.028378, Relative SD: 6.70367

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 171031M1_2	Standard	12.500	3.66	649.655	1453.004	5.589	13.2	5.6	NO		NO	bb
2	2 171031M1_3	Standard	12.500	3.62	668.312	1448.036	5.769	13.6	9.0	NO		NO	bb
3	3 171031M1_4	Standard	12.500	3.61	618.725	1450.402	5.332	12.6	0.8	NO		NO	bb
4	4 171031M1_5	Standard	12.500	3.61	650.419	1759.264	4.621	10.9	-12.7	NO		NO	bb
5	5 171031M1_6	Standard	12.500	3.61	695.829	1542.587	5.638	13.3	6.6	NO		NO	bb
6	6 171031M1_7	Standard	12.500	3.61	646.401	1564.074	5.166	12.2	-2.4	NO		NO	bb
7	7 171031M1_8	Standard	12.500	3.62	645.383	1586.405	5.085	12.0	-3.9	NO		NO	bb
8	8 171031M1_9	Standard	12.500	3.62	597.037	1475.894	5.057	11.9	-4.4	NO		NO	bb
9	9 171031M1_10	Standard	12.500	3.62	615.199	1433.237	5.365	12.7	1.4	NO		NO	bb

**Compound name: 13C2-6:2 FTS**

Response Factor: 0.285726

RRF SD: 0.0424804, Relative SD: 14.8676

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 171031M1_2	Standard	12.500	3.98	1391.426	5755.554	3.022	10.6	-15.4	NO		NO	bb
2	2 171031M1_3	Standard	12.500	3.94	1783.023	6357.599	3.506	12.3	-1.8	NO		NO	bb
3	3 171031M1_4	Standard	12.500	3.93	1706.995	6407.551	3.330	11.7	-6.8	NO		NO	bb
4	4 171031M1_5	Standard	12.500	3.93	1871.369	6896.374	3.392	11.9	-5.0	NO		NO	bb
5	5 171031M1_6	Standard	12.500	3.93	1780.975	7038.075	3.163	11.1	-11.4	NO		NO	bb
6	6 171031M1_7	Standard	12.500	3.93	1894.751	6844.025	3.461	12.1	-3.1	NO		NO	bb
7	7 171031M1_8	Standard	12.500	3.93	2129.841	6583.264	4.044	14.2	13.2	NO		NO	bb
8	8 171031M1_9	Standard	12.500	3.93	2419.446	6496.577	4.655	16.3	30.3	NO		NO	bb
9	9 171031M1_10	Standard	12.500	3.93	3218.971	6480.723	6.209	21.7	73.8	NO		NO	bbX

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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C2-PFOA**

Response Factor: 1.30974

RRF SD: 0.0867529, Relative SD: 6.62368

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 171031M1_2	Standard	12.500	4.03	7934.241	5755.554	17.232	13.2	5.3	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.00	8745.764	6357.599	17.195	13.1	5.0	NO		NO	bb
3	3 171031M1_4	Standard	12.500	3.99	9029.854	6407.551	17.616	13.4	7.6	NO		NO	bb
4	4 171031M1_5	Standard	12.500	3.99	8565.783	6896.374	15.526	11.9	-5.2	NO		NO	bb
5	5 171031M1_6	Standard	12.500	3.99	9169.785	7038.075	16.286	12.4	-0.5	NO		NO	bb
6	6 171031M1_7	Standard	12.500	3.99	8262.648	6844.025	15.091	11.5	-7.8	NO		NO	bb
7	7 171031M1_8	Standard	12.500	3.99	7764.311	6583.264	14.743	11.3	-10.0	NO		NO	bb
8	8 171031M1_9	Standard	12.500	3.99	8377.454	6496.577	16.119	12.3	-1.5	NO		NO	bb
9	9 171031M1_10	Standard	12.500	3.99	9092.846	6480.723	17.538	13.4	7.1	NO		NO	bb

**Compound name: 13C5-PFNA**

Response Factor: 0.979208

RRF SD: 0.0766554, Relative SD: 7.82831

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 171031M1_2	Standard	12.500	4.47	7267.375	7443.399	12.204	12.5	-0.3	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.44	7363.853	7759.596	11.862	12.1	-3.1	NO		NO	bb
3	3 171031M1_4	Standard	12.500	4.44	7012.465	7636.577	11.478	11.7	-6.2	NO		NO	bb
4	4 171031M1_5	Standard	12.500	4.44	8090.482	8507.058	11.888	12.1	-2.9	NO		NO	bb
5	5 171031M1_6	Standard	12.500	4.44	8176.660	8252.775	12.385	12.6	1.2	NO		NO	bb
6	6 171031M1_7	Standard	12.500	4.44	7448.899	7913.440	11.766	12.0	-3.9	NO		NO	bb
7	7 171031M1_8	Standard	12.500	4.44	7447.263	7424.903	12.538	12.8	2.4	NO		NO	bb
8	8 171031M1_9	Standard	12.500	4.44	6680.167	5722.288	14.592	14.9	19.2	NO		NO	bb
9	9 171031M1_10	Standard	12.500	4.44	6536.574	7138.070	11.447	11.7	-6.5	NO		NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C8-PFOSA**

Response Factor: 0.206685

RRF SD: 0.0287647, Relative SD: 13.9171

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 171031M1_2	Standard	12.500	4.53	1492.771	8791.230	2.123	10.3	-17.8	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.50	2163.038	10903.049	2.480	12.0	-4.0	NO		NO	bb
3	3 171031M1_4	Standard	12.500	4.50	2040.950	8589.958	2.970	14.4	15.0	NO		NO	bb
4	4 171031M1_5	Standard	12.500	4.49	2051.817	10303.497	2.489	12.0	-3.7	NO		NO	bb
5	5 171031M1_6	Standard	12.500	4.49	2306.300	9557.864	3.016	14.6	16.7	NO		NO	bb
6	6 171031M1_7	Standard	12.500	4.49	1967.677	10502.081	2.342	11.3	-9.3	NO		NO	bb
7	7 171031M1_8	Standard	12.500	4.49	1695.327	9076.938	2.335	11.3	-9.6	NO		NO	bb
8	8 171031M1_9	Standard	12.500	4.49	1684.739	8894.727	2.368	11.5	-8.4	NO		NO	bb
9	9 171031M1_10	Standard	12.500	4.49	1887.221	7536.803	3.130	15.1	21.2	NO		NO	bb

**Compound name: 13C8-PFOS**

Response Factor: 1.07154

RRF SD: 0.0815576, Relative SD: 7.61125

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 171031M1_2	Standard	12.500	4.56	1859.624	1684.138	13.802	12.9	3.0	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.53	1937.648	1709.990	14.164	13.2	5.7	NO		NO	bb
3	3 171031M1_4	Standard	12.500	4.53	1851.665	1670.649	13.854	12.9	3.4	NO		NO	bb
4	4 171031M1_5	Standard	12.500	4.53	2059.767	1730.373	14.880	13.9	11.1	NO		NO	bb
5	5 171031M1_6	Standard	12.500	4.53	2120.759	2046.018	12.957	12.1	-3.3	NO		NO	bb
6	6 171031M1_7	Standard	12.500	4.53	1912.542	1723.226	13.873	12.9	3.6	NO		NO	bb
7	7 171031M1_8	Standard	12.500	4.53	1864.678	1862.948	12.512	11.7	-6.6	NO		NO	bb
8	8 171031M1_9	Standard	12.500	4.53	1751.382	1675.064	13.070	12.2	-2.4	NO		NO	bb
9	9 171031M1_10	Standard	12.500	4.53	1641.193	1793.776	11.437	10.7	-14.6	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C2-PFDA**

Response Factor: 1.01408

RRF SD: 0.100933, Relative SD: 9.95321

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 171031M1_2	Standard	12.500	4.85	7145.477	7192.681	12.418	12.2	-2.0	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.83	7574.697	8328.828	11.368	11.2	-10.3	NO		NO	bb
3	3 171031M1_4	Standard	12.500	4.82	8647.730	7719.951	14.002	13.8	10.5	NO		NO	bb
4	4 171031M1_5	Standard	12.500	4.82	8337.258	7639.211	13.642	13.5	7.6	NO		NO	bb
5	5 171031M1_6	Standard	12.500	4.82	7915.097	9023.982	10.964	10.8	-13.5	NO		NO	bb
6	6 171031M1_7	Standard	12.500	4.82	9131.245	7885.146	14.475	14.3	14.2	NO		NO	bb
7	7 171031M1_8	Standard	12.500	4.82	8341.659	8546.058	12.201	12.0	-3.7	NO		NO	bd
8	8 171031M1_9	Standard	12.500	4.83	7622.616	7079.840	13.458	13.3	6.2	NO		NO	bb
9	9 171031M1_10	Standard	12.500	4.83	6872.966	7435.586	11.554	11.4	-8.8	NO		NO	bb

**Compound name: 13C2-8:2 FTS**

Response Factor: 0.216109

RRF SD: 0.0409852, Relative SD: 18.9651

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 171031M1_2	Standard	12.500	4.82	1442.480	7192.681	2.507	11.6	-7.2	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.80	1803.926	8328.828	2.707	12.5	0.2	NO		NO	bb
3	3 171031M1_4	Standard	12.500	4.80	1393.365	7719.951	2.256	10.4	-16.5	NO		NO	bb
4	4 171031M1_5	Standard	12.500	4.79	1675.058	7639.211	2.741	12.7	1.5	NO		NO	bb
5	5 171031M1_6	Standard	12.500	4.79	1904.943	9023.982	2.639	12.2	-2.3	NO		NO	bb
6	6 171031M1_7	Standard	12.500	4.79	1553.782	7885.146	2.463	11.4	-8.8	NO		NO	bb
7	7 171031M1_8	Standard	12.500	4.79	1637.058	8546.058	2.394	11.1	-11.4	NO		NO	bb
8	8 171031M1_9	Standard	12.500	4.79	2210.796	7079.840	3.903	18.1	44.5	NO		NO	bb
9	9 171031M1_10	Standard	12.500	4.79	2901.082	7435.586	4.877	22.6	80.5	NO		NO	bbX

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: d3-N-MeFOSAA**

Response Factor: 0.368005

RRF SD: 0.0369419, Relative SD: 10.0384

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 171031M1_2	Standard	12.500	5.00	3075.407	8791.230	4.373	11.9	-4.9	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.99	3851.943	10903.049	4.416	12.0	-4.0	NO		NO	bb
3	3 171031M1_4	Standard	12.500	4.98	3434.018	8589.958	4.997	13.6	8.6	NO		NO	bb
4	4 171031M1_5	Standard	12.500	4.97	3484.427	10303.497	4.227	11.5	-8.1	NO		NO	bb
5	5 171031M1_6	Standard	12.500	4.98	3316.072	9557.864	4.337	11.8	-5.7	NO		NO	bb
6	6 171031M1_7	Standard	12.500	4.98	3387.262	10502.081	4.032	11.0	-12.4	NO		NO	bb
7	7 171031M1_8	Standard	12.500	4.98	3537.138	9076.938	4.871	13.2	5.9	NO		NO	bb
8	8 171031M1_9	Standard	12.500	4.98	3288.611	8894.727	4.622	12.6	0.5	NO		NO	bb
9	9 171031M1_10	Standard	12.500	4.98	3331.907	7536.803	5.526	15.0	20.1	NO		NO	bb

**Compound name: d5-N-EtFOSAA**

Response Factor: 0.38859

RRF SD: 0.0538614, Relative SD: 13.8607

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 171031M1_2	Standard	12.500	5.17	3420.794	8791.230	4.864	12.5	0.1	NO		NO	bb
2	2 171031M1_3	Standard	12.500	5.15	3359.667	10903.049	3.852	9.9	-20.7	NO		NO	bb
3	3 171031M1_4	Standard	12.500	5.14	3890.687	8589.958	5.662	14.6	16.6	NO		NO	bb
4	4 171031M1_5	Standard	12.500	5.14	3644.828	10303.497	4.422	11.4	-9.0	NO		NO	bb
5	5 171031M1_6	Standard	12.500	5.14	4390.306	9557.864	5.742	14.8	18.2	NO		NO	bb
6	6 171031M1_7	Standard	12.500	5.14	3847.179	10502.081	4.579	11.8	-5.7	NO		NO	bb
7	7 171031M1_8	Standard	12.500	5.14	3517.122	9076.938	4.843	12.5	-0.3	NO		NO	bb
8	8 171031M1_9	Standard	12.500	5.14	2987.895	8894.727	4.199	10.8	-13.6	NO		NO	bb
9	9 171031M1_10	Standard	12.500	5.14	3348.685	7536.803	5.554	14.3	14.3	NO		NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C2-PFUDa**

Response Factor: 0.982848

RRF SD: 0.0745675, Relative SD: 7.58688

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 171031M1_2	Standard	12.500	5.18	9738.930	8791.230	13.848	14.1	12.7	NO		NO	bb
2	2 171031M1_3	Standard	12.500	5.17	9554.212	10903.049	10.954	11.1	-10.8	NO		NO	bb
3	3 171031M1_4	Standard	12.500	5.16	8696.637	8589.958	12.655	12.9	3.0	NO		NO	bb
4	4 171031M1_5	Standard	12.500	5.16	10075.132	10303.497	12.223	12.4	-0.5	NO		NO	bb
5	5 171031M1_6	Standard	12.500	5.16	8770.748	9557.864	11.471	11.7	-6.6	NO		NO	bb
6	6 171031M1_7	Standard	12.500	5.16	10143.998	10502.081	12.074	12.3	-1.7	NO		NO	bb
7	7 171031M1_8	Standard	12.500	5.16	8695.222	9076.938	11.974	12.2	-2.5	NO		NO	bb
8	8 171031M1_9	Standard	12.500	5.16	8417.339	8894.727	11.829	12.0	-3.7	NO		NO	bb
9	9 171031M1_10	Standard	12.500	5.16	8165.827	7536.803	13.543	13.8	10.2	NO		NO	bb

**Compound name: 13C2-PFDoA**

Response Factor: 0.997054

RRF SD: 0.109236, Relative SD: 10.9559

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 171031M1_2	Standard	12.500	5.47	8973.643	8791.230	12.759	12.8	2.4	NO		NO	bb
2	2 171031M1_3	Standard	12.500	5.46	9276.800	10903.049	10.636	10.7	-14.7	NO		NO	bb
3	3 171031M1_4	Standard	12.500	5.45	9088.354	8589.958	13.225	13.3	6.1	NO		NO	bb
4	4 171031M1_5	Standard	12.500	5.45	10505.300	10303.497	12.745	12.8	2.3	NO		NO	bb
5	5 171031M1_6	Standard	12.500	5.45	10097.720	9557.864	13.206	13.2	6.0	NO		NO	bb
6	6 171031M1_7	Standard	12.500	5.45	8535.952	10502.081	10.160	10.2	-18.5	NO		NO	bb
7	7 171031M1_8	Standard	12.500	5.45	10663.989	9076.938	14.686	14.7	17.8	NO		NO	bb
8	8 171031M1_9	Standard	12.500	5.45	8742.194	8894.727	12.286	12.3	-1.4	NO		NO	bb
9	9 171031M1_10	Standard	12.500	5.45	7516.635	7536.803	12.467	12.5	0.0	NO		NO	bb



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: d3-N-MeFOSA**

Response Factor: 0.0956136

RRF SD: 0.00758527, Relative SD: 7.93325

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 171031M1_2	Standard	150.000	5.61	9392.646	8791.230	13.355	139.7	-6.9	NO		NO	bb
2	2 171031M1_3	Standard	150.000	5.55	11698.229	10903.049	13.412	140.3	-6.5	NO		NO	bb
3	3 171031M1_4	Standard	150.000	5.54	10823.978	8589.958	15.751	164.7	9.8	NO		NO	bb
4	4 171031M1_5	Standard	150.000	5.54	11408.556	10303.497	13.841	144.8	-3.5	NO		NO	bb
5	5 171031M1_6	Standard	150.000	5.54	10812.815	9557.864	14.141	147.9	-1.4	NO		NO	bb
6	6 171031M1_7	Standard	150.000	5.54	11180.341	10502.081	13.307	139.2	-7.2	NO		NO	bb
7	7 171031M1_8	Standard	150.000	5.54	10530.616	9076.938	14.502	151.7	1.1	NO		NO	bb
8	8 171031M1_9	Standard	150.000	5.54	10080.462	8894.727	14.166	148.2	-1.2	NO		NO	bb
9	9 171031M1_10	Standard	150.000	5.54	10010.843	7536.803	16.603	173.6	15.8	NO		NO	bb

**Compound name: 13C2-PFTeDA**

Response Factor: 1.03934

RRF SD: 0.0687595, Relative SD: 6.61571

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 171031M1_2	Standard	12.500	5.95	9070.291	8791.230	12.897	12.4	-0.7	NO		NO	bb
2	2 171031M1_3	Standard	12.500	5.94	11052.117	10903.049	12.671	12.2	-2.5	NO		NO	bb
3	3 171031M1_4	Standard	12.500	5.94	9782.038	8589.958	14.235	13.7	9.6	NO		NO	bb
4	4 171031M1_5	Standard	12.500	5.94	10359.471	10303.497	12.568	12.1	-3.3	NO		NO	bb
5	5 171031M1_6	Standard	12.500	5.94	9972.630	9557.864	13.042	12.5	0.4	NO		NO	bb
6	6 171031M1_7	Standard	12.500	5.94	9608.716	10502.081	11.437	11.0	-12.0	NO		NO	bb
7	7 171031M1_8	Standard	12.500	5.94	9259.316	9076.938	12.751	12.3	-1.9	NO		NO	bb
8	8 171031M1_9	Standard	12.500	5.94	9302.396	8894.727	13.073	12.6	0.6	NO		NO	bb
9	9 171031M1_10	Standard	12.500	5.94	8593.112	7536.803	14.252	13.7	9.7	NO		NO	bb

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Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: d5-N-ETFOSA**

Response Factor: 0.143993

RRF SD: 0.0113961, Relative SD: 7.91434

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 171031M1_2	Standard	150.000	6.02	13901.869	8791.230	19.767	137.3	-8.5	NO		NO	bb
2	2 171031M1_3	Standard	150.000	5.99	17096.633	10903.049	19.601	136.1	-9.3	NO		NO	bb
3	3 171031M1_4	Standard	150.000	5.98	16828.123	8589.958	24.488	170.1	13.4	NO		NO	bb
4	4 171031M1_5	Standard	150.000	5.98	17169.912	10303.497	20.830	144.7	-3.6	NO		NO	bb
5	5 171031M1_6	Standard	150.000	5.98	16600.344	9557.864	21.710	150.8	0.5	NO		NO	bb
6	6 171031M1_7	Standard	150.000	5.98	17081.096	10502.081	20.331	141.2	-5.9	NO		NO	bb
7	7 171031M1_8	Standard	150.000	5.98	16298.452	9076.938	22.445	155.9	3.9	NO		NO	bb
8	8 171031M1_9	Standard	150.000	5.98	15259.872	8894.727	21.445	148.9	-0.7	NO		NO	bb
9	9 171031M1_10	Standard	150.000	5.98	14334.034	7536.803	23.773	165.1	10.1	NO		NO	bb

**Compound name: 13C2-PFHxDA**

Response Factor: 1.03209

RRF SD: 0.127277, Relative SD: 12.332

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 171031M1_2	Standard	5.000	6.30	2965.394	8791.230	4.216	4.1	-18.3	NO		NO	bb
2	2 171031M1_3	Standard	5.000	6.30	3990.268	10903.049	4.575	4.4	-11.4	NO		NO	bb
3	3 171031M1_4	Standard	5.000	6.29	3303.746	8589.958	4.808	4.7	-6.8	NO		NO	bb
4	4 171031M1_5	Standard	5.000	6.29	4525.968	10303.497	5.491	5.3	6.4	NO		NO	bb
5	5 171031M1_6	Standard	5.000	6.29	3660.271	9557.864	4.787	4.6	-7.2	NO		NO	bb
6	6 171031M1_7	Standard	5.000	6.29	4204.542	10502.081	5.004	4.8	-3.0	NO		NO	bb
7	7 171031M1_8	Standard	5.000	6.29	4441.032	9076.938	6.116	5.9	18.5	NO		NO	bb
8	8 171031M1_9	Standard	5.000	6.29	3948.273	8894.727	5.549	5.4	7.5	NO		NO	bb
9	9 171031M1_10	Standard	5.000	6.29	3556.467	7536.803	5.899	5.7	14.3	NO		NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: d7-N-MeFOSE**

Response Factor: 0.132974

RRF SD: 0.0163169, Relative SD: 12.2707

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 171031M1_2	Standard	150.000	6.18	13124.170	8791.230	18.661	140.3	-6.4	NO		NO	bb
2	2 171031M1_3	Standard	150.000	6.19	15410.882	10903.049	17.668	132.9	-11.4	NO		NO	MM
3	3 171031M1_4	Standard	150.000	6.18	16129.054	8589.958	23.471	176.5	17.7	NO		NO	MM
4	4 171031M1_5	Standard	150.000	6.19	16972.910	10303.497	20.591	154.9	3.2	NO		NO	MM
5	5 171031M1_6	Standard	150.000	6.19	14780.235	9557.864	19.330	145.4	-3.1	NO		NO	MM
6	6 171031M1_7	Standard	150.000	6.19	16055.921	10502.081	19.110	143.7	-4.2	NO		NO	MM
7	7 171031M1_8	Standard	150.000	6.19	14835.532	9076.938	20.430	153.6	2.4	NO		NO	MM
8	8 171031M1_9	Standard	150.000	6.19	11713.693	8894.727	16.462	123.8	-17.5	NO		NO	bb
9	9 171031M1_10	Standard	150.000	6.19	14345.026	7536.803	23.792	178.9	19.3	NO		NO	bb

**Compound name: d9-N-EtFOSE**

Response Factor: 0.127708

RRF SD: 0.0154942, Relative SD: 12.1325

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 171031M1_2	Standard	150.000	6.34	11021.274	8791.230	15.671	122.7	-18.2	NO		NO	MM
2	2 171031M1_3	Standard	150.000	6.35	13611.050	10903.049	15.605	122.2	-18.5	NO		NO	MM
3	3 171031M1_4	Standard	150.000	6.34	14567.635	8589.958	21.199	166.0	10.7	NO		NO	bb
4	4 171031M1_5	Standard	150.000	6.34	15962.389	10303.497	19.365	151.6	1.1	NO		NO	bb
5	5 171031M1_6	Standard	150.000	6.34	15443.354	9557.864	20.197	158.2	5.4	NO		NO	MM
6	6 171031M1_7	Standard	150.000	6.35	14651.429	10502.081	17.439	136.6	-9.0	NO		NO	MM
7	7 171031M1_8	Standard	150.000	6.34	15170.423	9076.938	20.891	163.6	9.1	NO		NO	MM
8	8 171031M1_9	Standard	150.000	6.35	14707.501	8894.727	20.669	161.8	7.9	NO		NO	MM
9	9 171031M1_10	Standard	150.000	6.34	12885.272	7536.803	21.371	167.3	11.6	NO		NO	MM

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C4-PFBA**

Response Factor: 1

RRF SD: 9.61481e-017, Relative SD: 9.61481e-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	171031M1_2	Standard	12.500	1.15	5963.095	5963.095	12.500	12.5	0.0	NO		NO	bb
2	2	171031M1_3	Standard	12.500	1.10	6803.867	6803.867	12.500	12.5	0.0	NO		NO	bb
3	3	171031M1_4	Standard	12.500	1.06	6654.722	6654.722	12.500	12.5	0.0	NO		NO	bb
4	4	171031M1_5	Standard	12.500	1.09	7041.553	7041.553	12.500	12.5	0.0	NO		NO	bb
5	5	171031M1_6	Standard	12.500	1.08	6915.432	6915.432	12.500	12.5	0.0	NO		NO	bb
6	6	171031M1_7	Standard	12.500	1.08	6832.840	6832.840	12.500	12.5	0.0	NO		NO	bb
7	7	171031M1_8	Standard	12.500	1.09	6879.583	6879.583	12.500	12.5	0.0	NO		NO	bb
8	8	171031M1_9	Standard	12.500	1.09	6502.498	6502.498	12.500	12.5	0.0	NO		NO	bb
9	9	171031M1_10	Standard	12.500	1.09	6600.681	6600.681	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C5-PFHxA**

Response Factor: 1

RRF SD: 1.17757e-016, Relative SD: 1.17757e-014

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	171031M1_2	Standard	12.500	2.89	7771.502	7771.502	12.500	12.5	0.0	NO		NO	MM
2	2	171031M1_3	Standard	12.500	2.85	9033.493	9033.493	12.500	12.5	0.0	NO		NO	bb
3	3	171031M1_4	Standard	12.500	2.83	8124.338	8124.338	12.500	12.5	0.0	NO		NO	MM
4	4	171031M1_5	Standard	12.500	2.83	8602.264	8602.264	12.500	12.5	0.0	NO		NO	MM
5	5	171031M1_6	Standard	12.500	2.83	9624.428	9624.428	12.500	12.5	0.0	NO		NO	MM
6	6	171031M1_7	Standard	12.500	2.83	8956.964	8956.964	12.500	12.5	0.0	NO		NO	bb
7	7	171031M1_8	Standard	12.500	2.83	8823.722	8823.722	12.500	12.5	0.0	NO		NO	bb
8	8	171031M1_9	Standard	12.500	2.83	7955.587	7955.587	12.500	12.5	0.0	NO		NO	bb
9	9	171031M1_10	Standard	12.500	2.83	8281.060	8281.060	12.500	12.5	0.0	NO		NO	MM

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**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	171031M1_2	Standard	12.500	3.66	1453.004	1453.004	12.500	12.5	0.0	NO		NO	bb
2	2	171031M1_3	Standard	12.500	3.62	1448.036	1448.036	12.500	12.5	0.0	NO		NO	bb
3	3	171031M1_4	Standard	12.500	3.61	1450.402	1450.402	12.500	12.5	0.0	NO		NO	bb
4	4	171031M1_5	Standard	12.500	3.61	1759.264	1759.264	12.500	12.5	0.0	NO		NO	bb
5	5	171031M1_6	Standard	12.500	3.62	1542.587	1542.587	12.500	12.5	0.0	NO		NO	bb
6	6	171031M1_7	Standard	12.500	3.61	1564.074	1564.074	12.500	12.5	0.0	NO		NO	bb
7	7	171031M1_8	Standard	12.500	3.62	1586.405	1586.405	12.500	12.5	0.0	NO		NO	bb
8	8	171031M1_9	Standard	12.500	3.61	1475.894	1475.894	12.500	12.5	0.0	NO		NO	bb
9	9	171031M1_10	Standard	12.500	3.61	1433.237	1433.237	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C8-PFOA**

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

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	171031M1_2	Standard	12.500	4.03	5755.554	5755.554	12.500	12.5	0.0	NO		NO	bb
2	2	171031M1_3	Standard	12.500	4.00	6357.599	6357.599	12.500	12.5	0.0	NO		NO	bb
3	3	171031M1_4	Standard	12.500	3.99	6407.551	6407.551	12.500	12.5	0.0	NO		NO	bb
4	4	171031M1_5	Standard	12.500	3.99	6896.374	6896.374	12.500	12.5	0.0	NO		NO	bb
5	5	171031M1_6	Standard	12.500	3.99	7038.075	7038.075	12.500	12.5	0.0	NO		NO	bb
6	6	171031M1_7	Standard	12.500	3.99	6844.025	6844.025	12.500	12.5	0.0	NO		NO	bb
7	7	171031M1_8	Standard	12.500	3.99	6583.264	6583.264	12.500	12.5	0.0	NO		NO	bb
8	8	171031M1_9	Standard	12.500	3.99	6496.577	6496.577	12.500	12.5	0.0	NO		NO	bb
9	9	171031M1_10	Standard	12.500	3.99	6480.723	6480.723	12.500	12.5	0.0	NO		NO	bb

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C9-PFNA**

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

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	171031M1_2	Standard	12.500	4.47	7443.399	7443.399	12.500	12.5	0.0	NO		NO	bb
2	2	171031M1_3	Standard	12.500	4.44	7759.596	7759.596	12.500	12.5	0.0	NO		NO	bb
3	3	171031M1_4	Standard	12.500	4.44	7636.577	7636.577	12.500	12.5	0.0	NO		NO	bb
4	4	171031M1_5	Standard	12.500	4.44	8507.058	8507.058	12.500	12.5	0.0	NO		NO	bb
5	5	171031M1_6	Standard	12.500	4.44	8252.775	8252.775	12.500	12.5	0.0	NO		NO	bb
6	6	171031M1_7	Standard	12.500	4.44	7913.440	7913.440	12.500	12.5	0.0	NO		NO	bb
7	7	171031M1_8	Standard	12.500	4.44	7424.903	7424.903	12.500	12.5	0.0	NO		NO	bb
8	8	171031M1_9	Standard	12.500	4.44	5722.288	5722.288	12.500	12.5	0.0	NO		NO	bb
9	9	171031M1_10	Standard	12.500	4.44	7138.070	7138.070	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 5.55112e-017, Relative SD: 5.55112e-015

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	171031M1_2	Standard	12.500	4.56	1684.138	1684.138	12.500	12.5	0.0	NO		NO	bb
2	2	171031M1_3	Standard	12.500	4.53	1709.990	1709.990	12.500	12.5	0.0	NO		NO	bb
3	3	171031M1_4	Standard	12.500	4.53	1670.649	1670.649	12.500	12.5	0.0	NO		NO	bb
4	4	171031M1_5	Standard	12.500	4.53	1730.373	1730.373	12.500	12.5	0.0	NO		NO	bb
5	5	171031M1_6	Standard	12.500	4.53	2046.018	2046.018	12.500	12.5	0.0	NO		NO	bb
6	6	171031M1_7	Standard	12.500	4.53	1723.226	1723.226	12.500	12.5	0.0	NO		NO	bb
7	7	171031M1_8	Standard	12.500	4.53	1862.948	1862.948	12.500	12.5	0.0	NO		NO	bb
8	8	171031M1_9	Standard	12.500	4.53	1675.064	1675.064	12.500	12.5	0.0	NO		NO	bb
9	9	171031M1_10	Standard	12.500	4.53	1793.776	1793.776	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:45:15 Pacific Daylight Time

**Compound name: 13C6-PFDA**

Response Factor: 1

RRF SD: 8.77708e-017, Relative SD: 8.77708e-015

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 171031M1_2	Standard	12.500	4.85	7192.681	7192.681	12.500	12.5	0.0	NO		NO	bb
2	2 171031M1_3	Standard	12.500	4.83	8328.828	8328.828	12.500	12.5	0.0	NO		NO	bb
3	3 171031M1_4	Standard	12.500	4.82	7719.951	7719.951	12.500	12.5	0.0	NO		NO	bb
4	4 171031M1_5	Standard	12.500	4.82	7639.211	7639.211	12.500	12.5	0.0	NO		NO	bb
5	5 171031M1_6	Standard	12.500	4.82	9023.982	9023.982	12.500	12.5	0.0	NO		NO	bb
6	6 171031M1_7	Standard	12.500	4.82	7885.146	7885.146	12.500	12.5	0.0	NO		NO	bb
7	7 171031M1_8	Standard	12.500	4.82	8546.058	8546.058	12.500	12.5	0.0	NO		NO	bb
8	8 171031M1_9	Standard	12.500	4.82	7079.840	7079.840	12.500	12.5	0.0	NO		NO	bb
9	9 171031M1_10	Standard	12.500	4.82	7435.586	7435.586	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C7-PFUDa**

Response Factor: 1

RRF SD: 5.55112e-017, Relative SD: 5.55112e-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 171031M1_2	Standard	12.500	5.18	8791.230	8791.230	12.500	12.5	0.0	NO		NO	bb
2	2 171031M1_3	Standard	12.500	5.17	10903.049	10903.049	12.500	12.5	0.0	NO		NO	bb
3	3 171031M1_4	Standard	12.500	5.16	8589.958	8589.958	12.500	12.5	0.0	NO		NO	bb
4	4 171031M1_5	Standard	12.500	5.16	10303.497	10303.497	12.500	12.5	0.0	NO		NO	bb
5	5 171031M1_6	Standard	12.500	5.16	9557.864	9557.864	12.500	12.5	0.0	NO		NO	bb
6	6 171031M1_7	Standard	12.500	5.16	10502.081	10502.081	12.500	12.5	0.0	NO		NO	bb
7	7 171031M1_8	Standard	12.500	5.16	9076.938	9076.938	12.500	12.5	0.0	NO		NO	bb
8	8 171031M1_9	Standard	12.500	5.16	8894.727	8894.727	12.500	12.5	0.0	NO		NO	bb
9	9 171031M1_10	Standard	12.500	5.16	7536.803	7536.803	12.500	12.5	0.0	NO		NO	bb

Dataset:        Untitled

Last Altered:   Wednesday, November 01, 2017 08:53:36 Pacific Daylight Time

Printed:        Wednesday, November 01, 2017 08:54:15 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 31 Oct 2017 10:25:33

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 08:21:58

Compound name: PFBA

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2	171031M1_2	ST171031M1-1 PFC CS-2 17J2805	31-Oct-17	16:08:10
3	171031M1_3	ST171031M1-2 PFC CS-1 17J2806	31-Oct-17	16:19:21
4	171031M1_4	ST171031M1-3 PFC CS0 17J2807	31-Oct-17	16:30:31
5	171031M1_5	ST171031M1-4 PFC CS1 17J2808	31-Oct-17	16:41:42
6	171031M1_6	ST171031M1-5 PFC CS2 17J2809	31-Oct-17	16:52:53
7	171031M1_7	ST171031M1-6 PFC CS3 17J2810	31-Oct-17	17:04:03
8	171031M1_8	ST171031M1-7 PFC CS4 17J2813	31-Oct-17	17:15:14
9	171031M1_9	ST171031M1-8 PFC CS5 17J2814	31-Oct-17	17:26:43
10	171031M1_10	ST171031M1-9 PFC CS6 17J2815	31-Oct-17	17:38:27
11	171031M1_11	ST171031M1-10 PFC CS7 17J2816	31-Oct-17	17:49:36
12	171031M1_12	IPA	31-Oct-17	18:00:47
13	171031M1_13	ICV171031M1-1 PFC ICV 17J2804	31-Oct-17	18:11:58
14	171031M1_14	IPA	31-Oct-17	18:23:08



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 31 Oct 2017 10:25:33

Calibration: 01 Nov 2017 08:21:58 C18\_VAL PFAS\_Q4\_10-31-17-FULL\_OLD

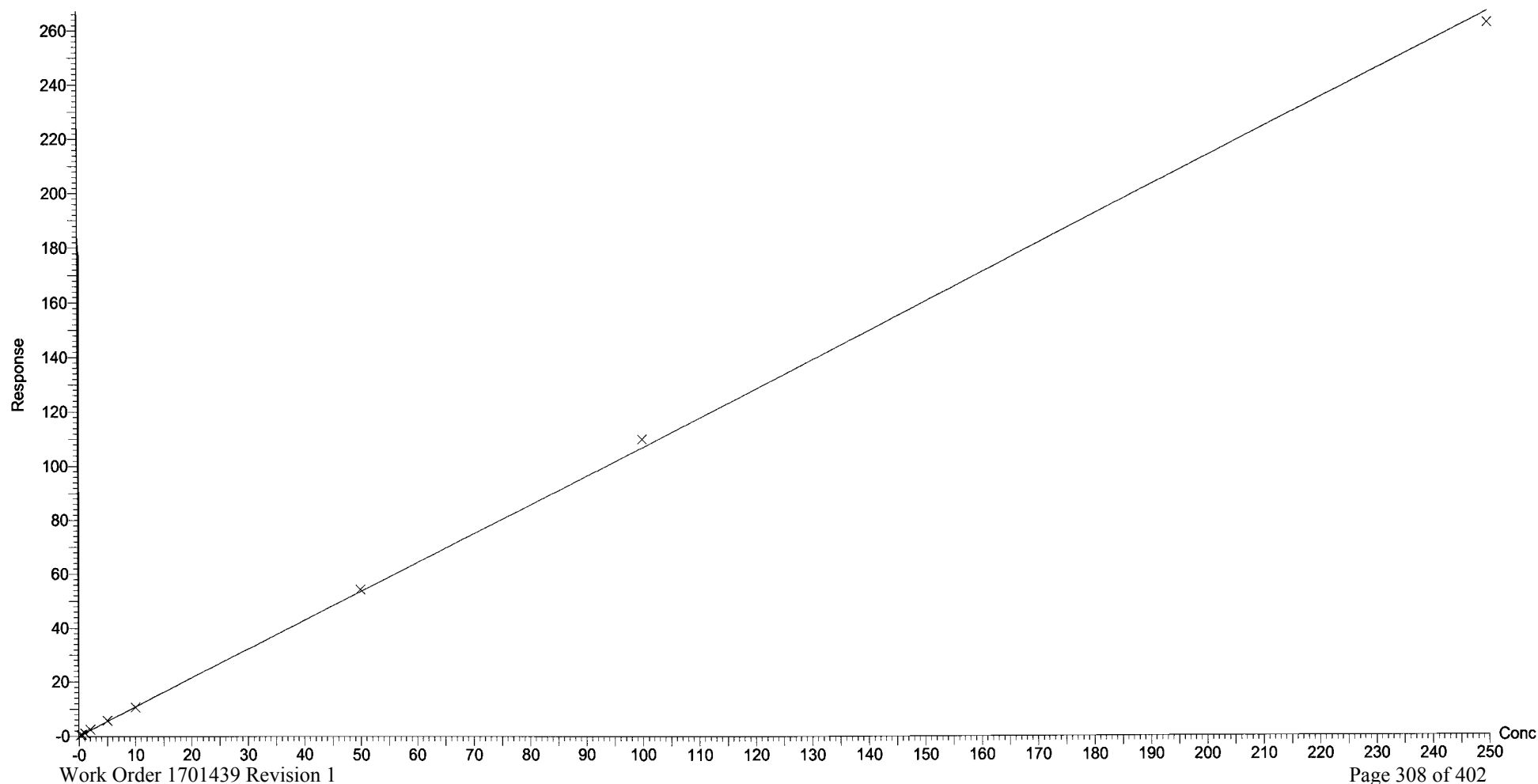
Compound name: PFBA

Correlation coefficient:  $r = 0.999738$ ,  $r^2 = 0.999476$

Calibration curve:  $1.06856 * x + 0.0388677$

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

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



Vista Analytical Laboratory Q1

Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

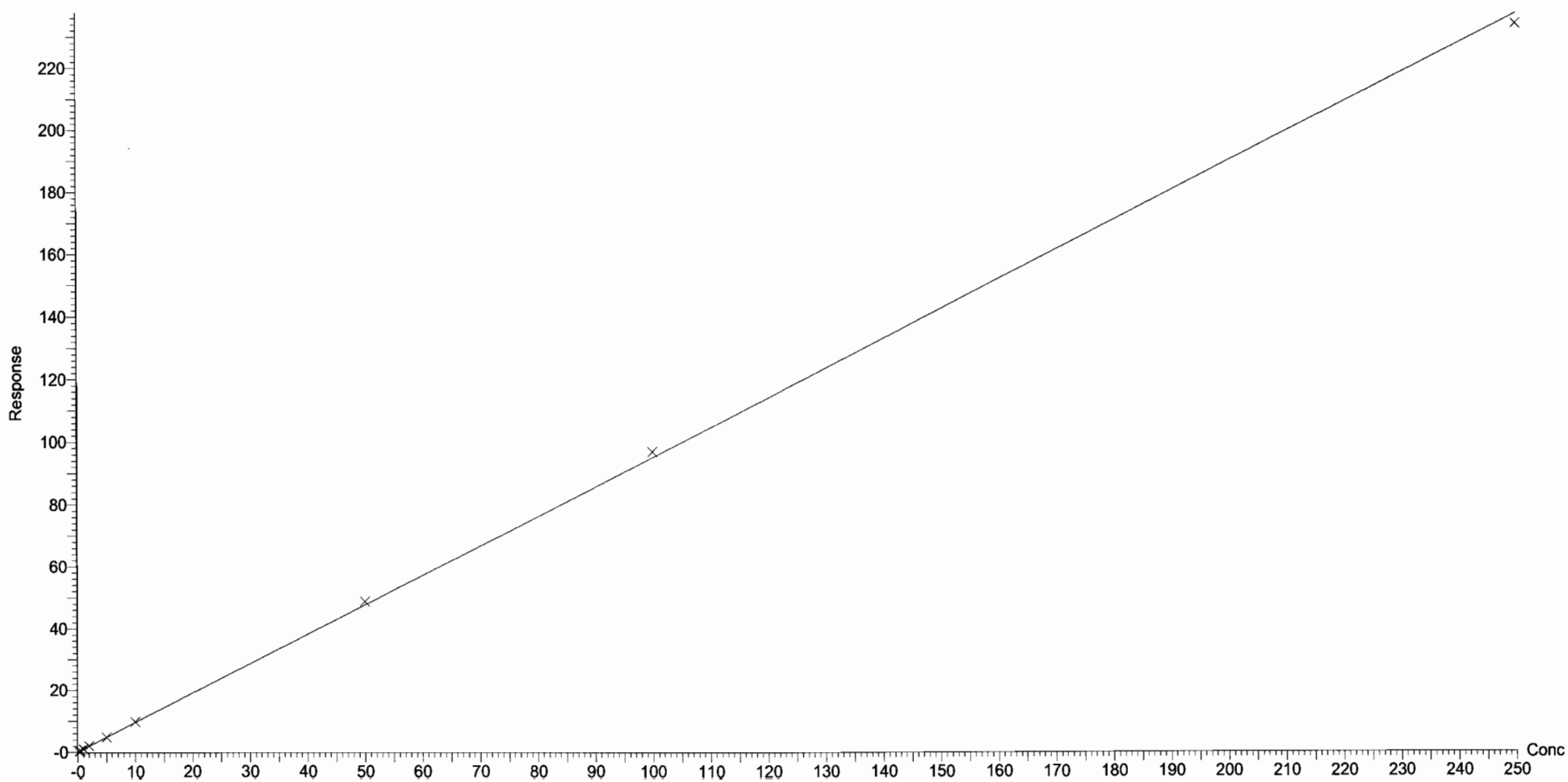
Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

Compound name: PFPeA

Correlation coefficient:  $r = 0.999844$ ,  $r^2 = 0.999687$ Calibration curve:  $0.95039 * x + 0.0982843$ 

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

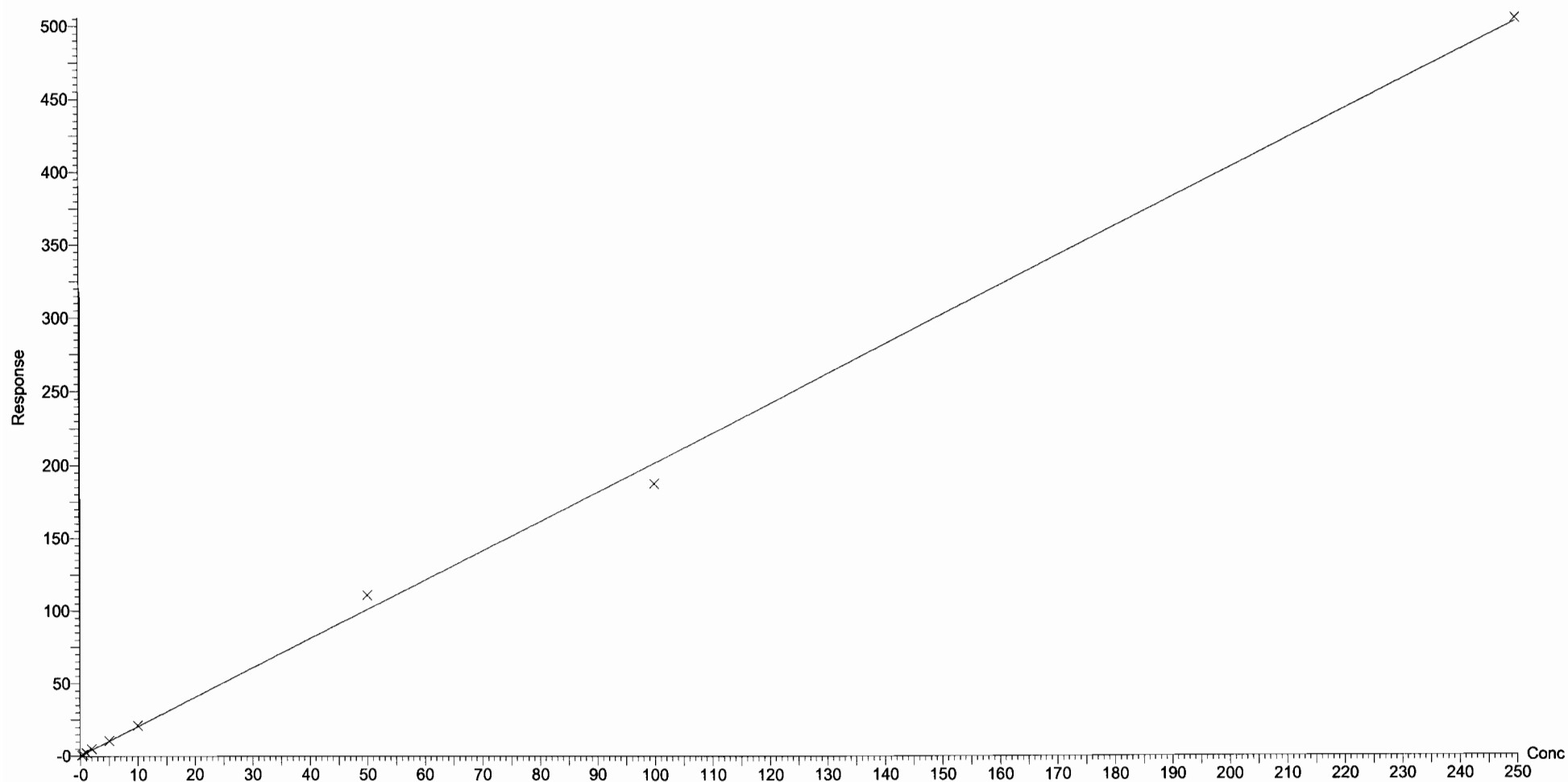
Compound name: PFBS

Correlation coefficient:  $r = 0.998677$ ,  $r^2 = 0.997355$

Calibration curve:  $2.01352 * x + 0.191925$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

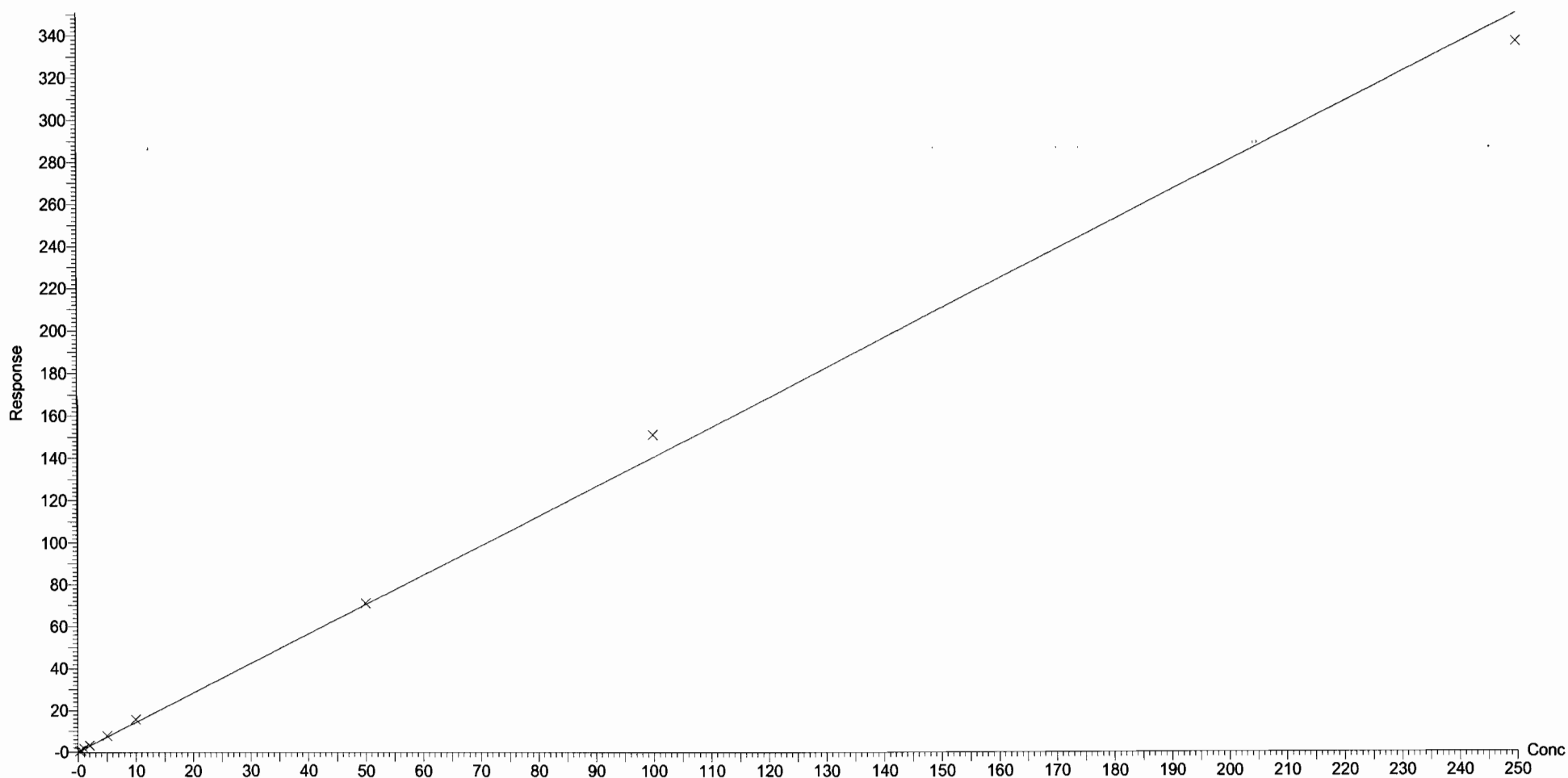
Compound name: PFHxA

Correlation coefficient:  $r = 0.998612$ ,  $r^2 = 0.997226$

Calibration curve:  $1.40323 * x + 0.202144$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

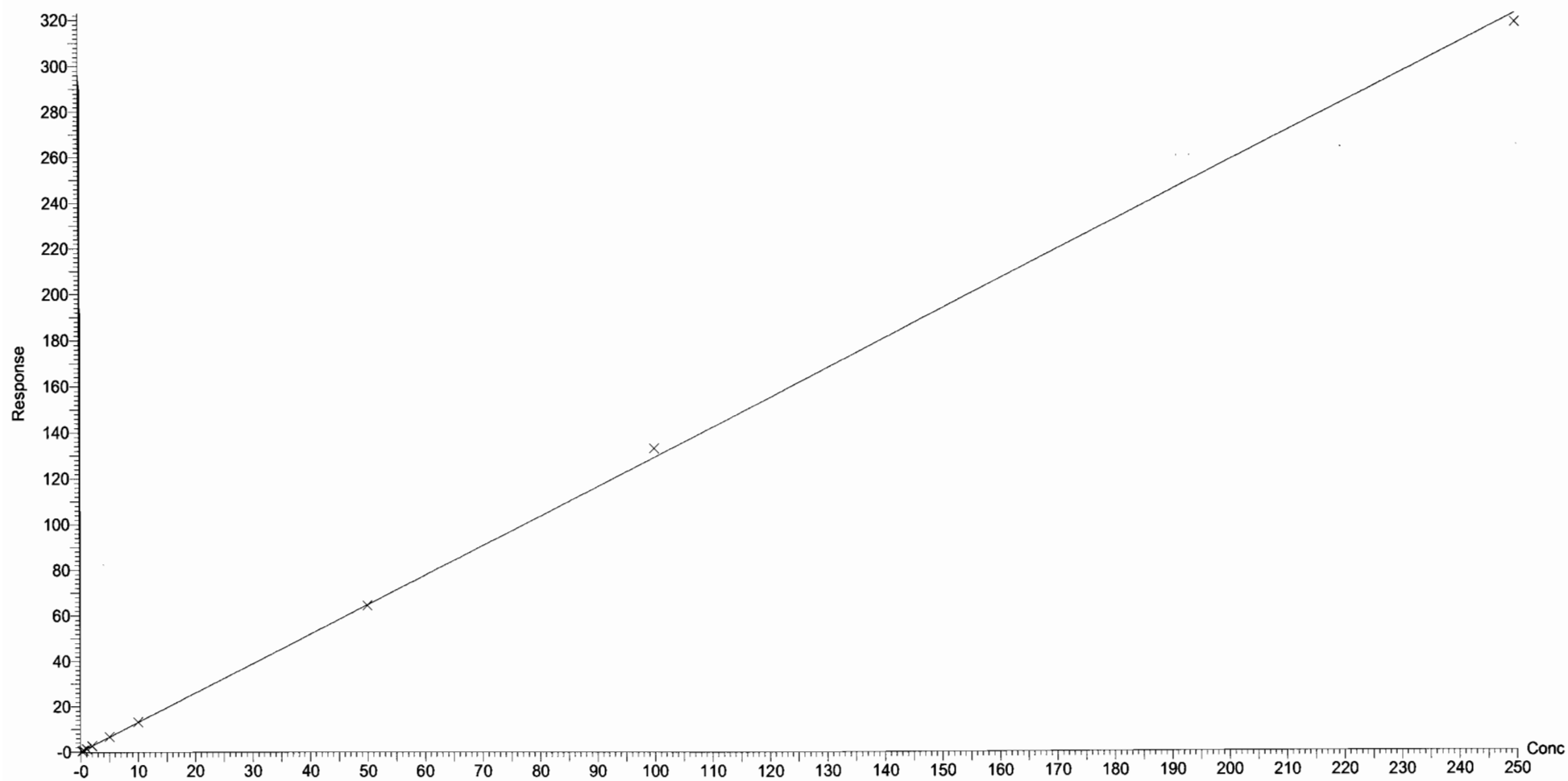
Compound name: PFHpA

Correlation coefficient:  $r = 0.999826$ ,  $r^2 = 0.999651$

Calibration curve:  $1.29101 * x + 0.123326$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

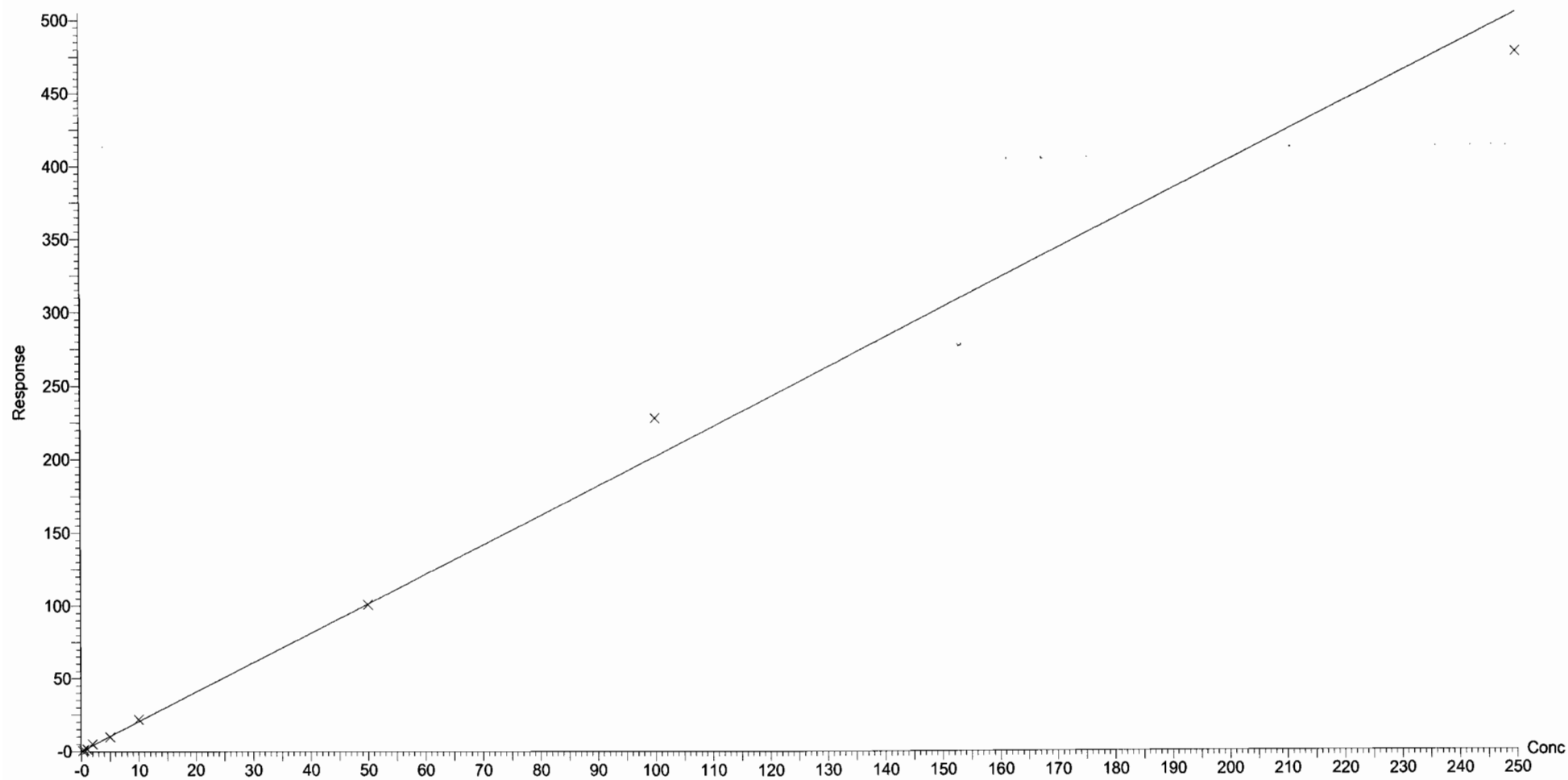
Compound name: L-PFHxS

Correlation coefficient:  $r = 0.996867$ ,  $r^2 = 0.993744$

Calibration curve:  $2.01952 * x + 0.0727077$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

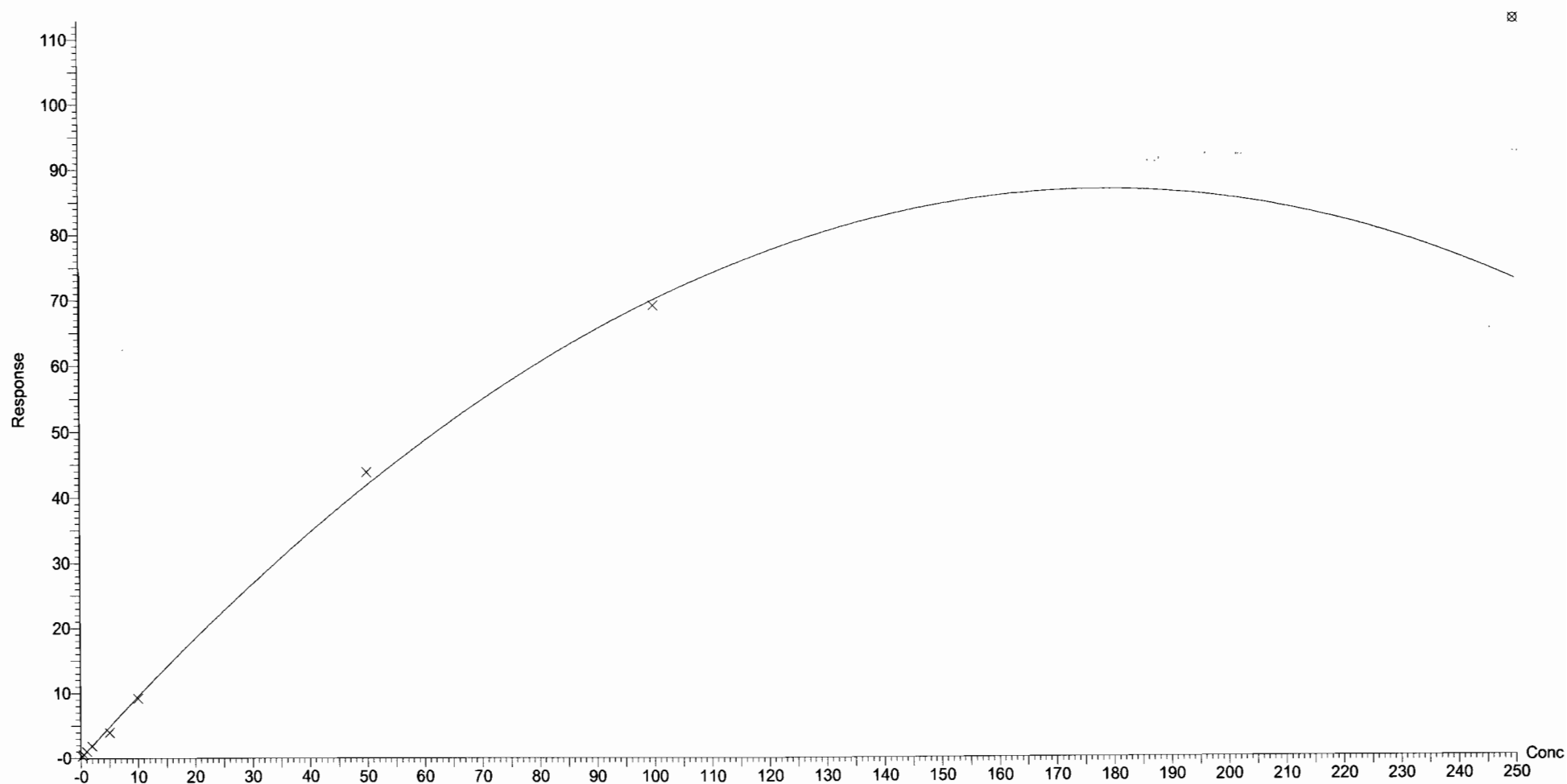
Compound name: 6:2 FTS

Coefficient of Determination:  $R^2 = 0.997401$

Calibration curve:  $-0.00272723 * x^2 + 0.973281 * x + -0.00870889$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

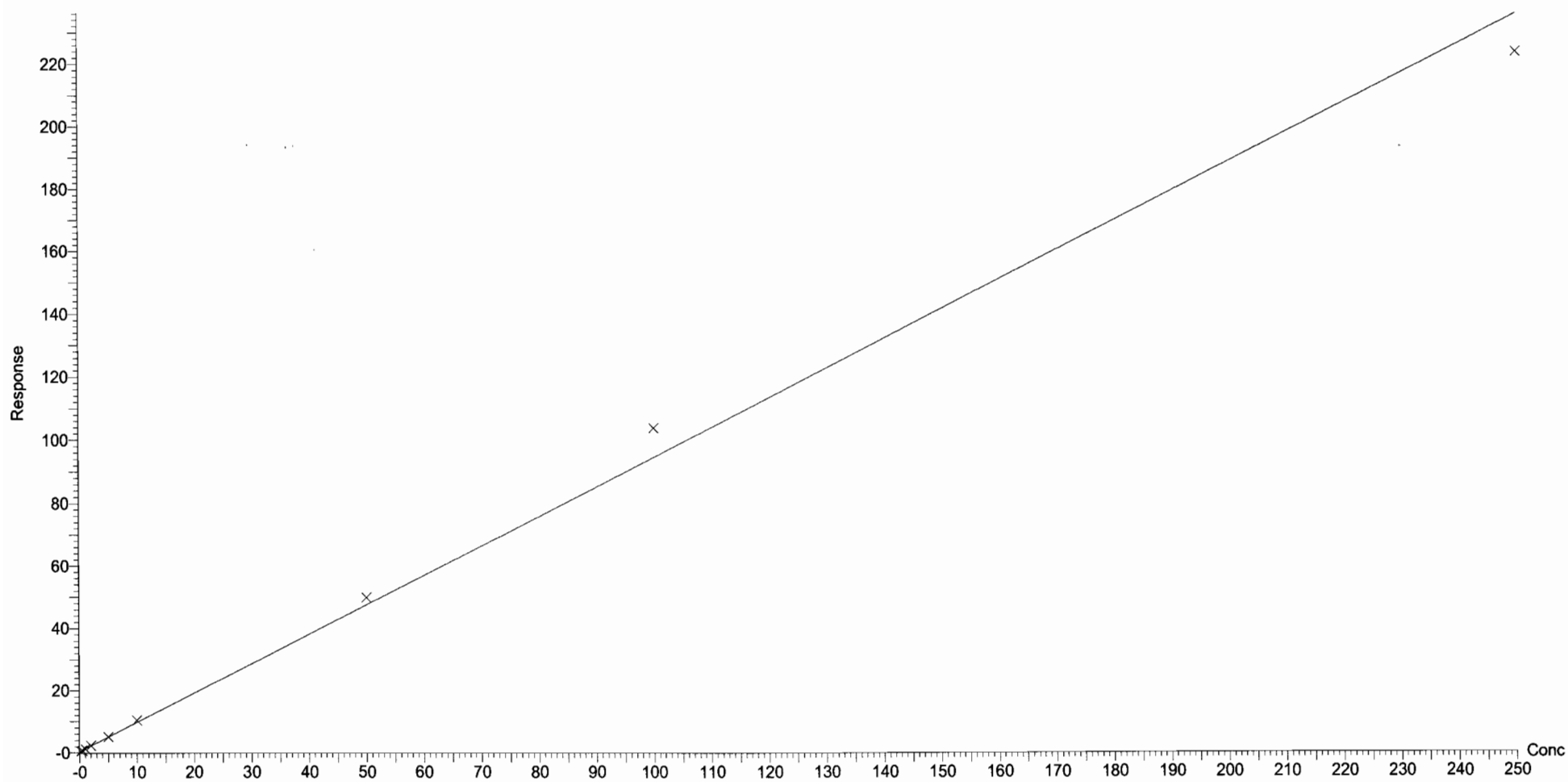
Compound name: L-PFOA

Correlation coefficient:  $r = 0.997771$ ,  $r^2 = 0.995546$

Calibration curve:  $0.943455 * x + 0.316537$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

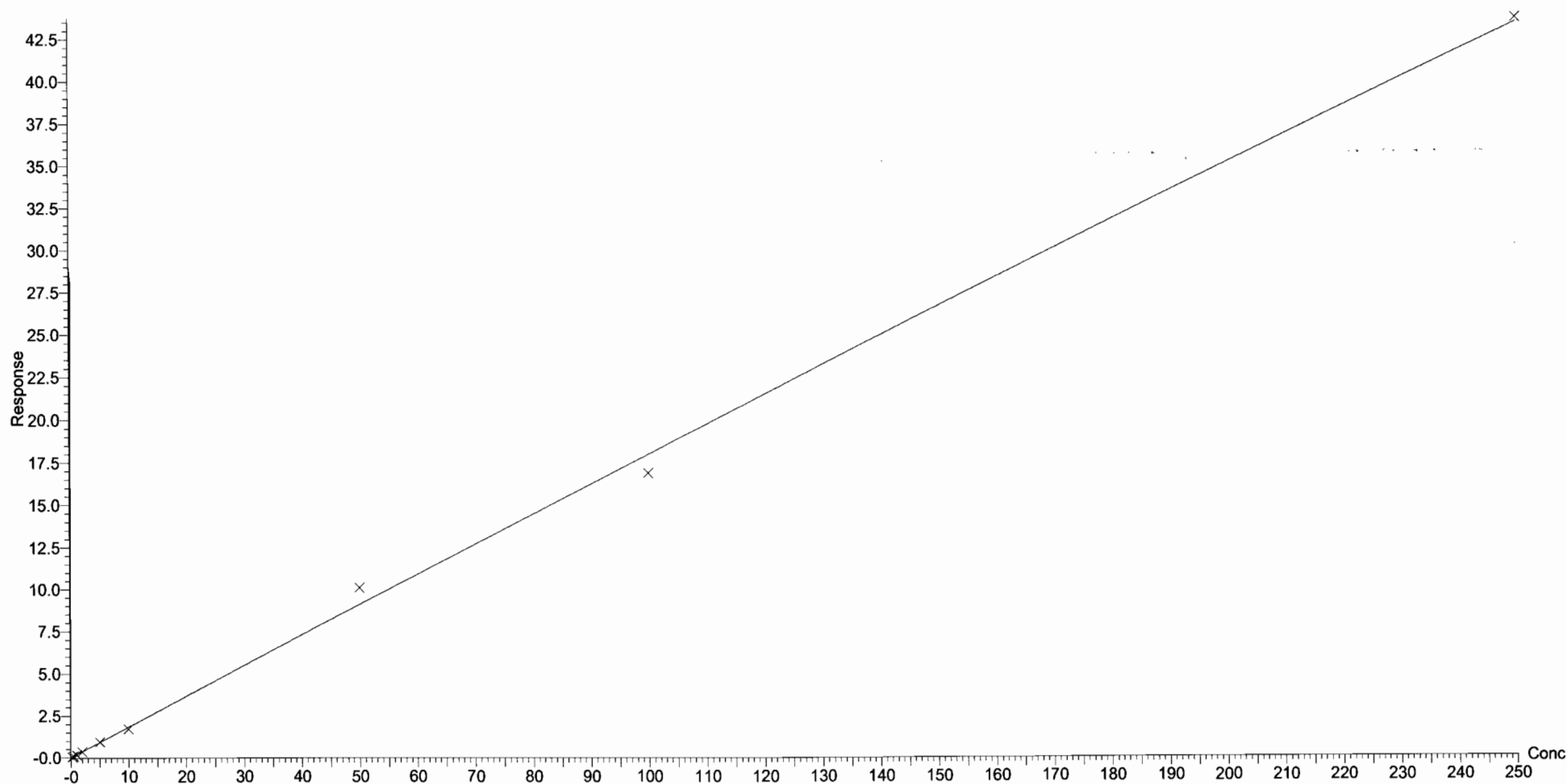
Compound name: PFHpS

Coefficient of Determination:  $R^2 = 0.997276$

Calibration curve:  $-3.99694e-005 * x^2 + 0.183931 * x + 0.00205894$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

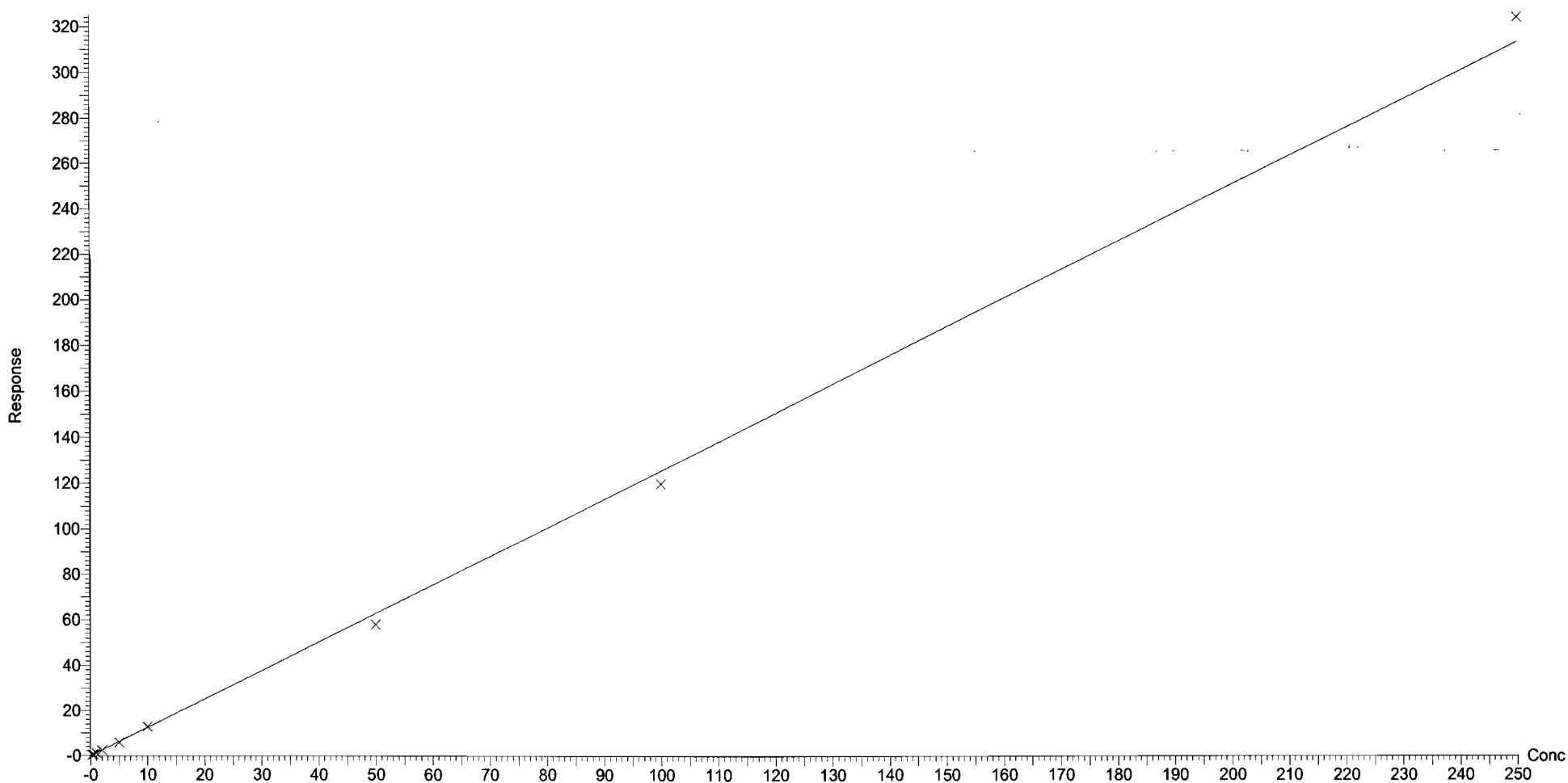
Compound name: PFNA

Correlation coefficient:  $r = 0.998949$ ,  $r^2 = 0.997900$

Calibration curve:  $1.25666 * x + -0.0468814$

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

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



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

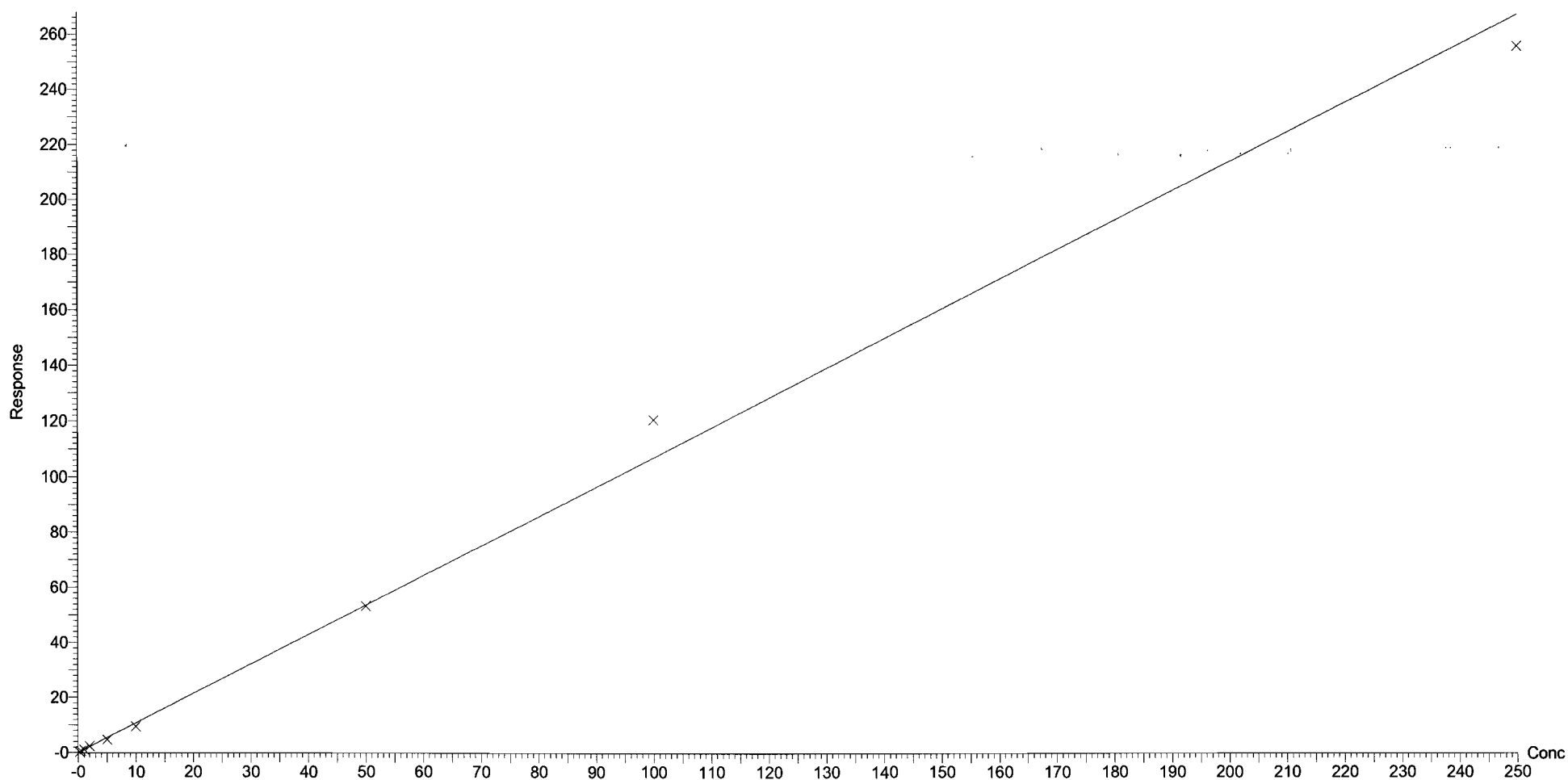
Compound name: PFOSA

Correlation coefficient:  $r = 0.997159$ ,  $r^2 = 0.994326$

Calibration curve:  $1.07115 * x + 0.04065$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

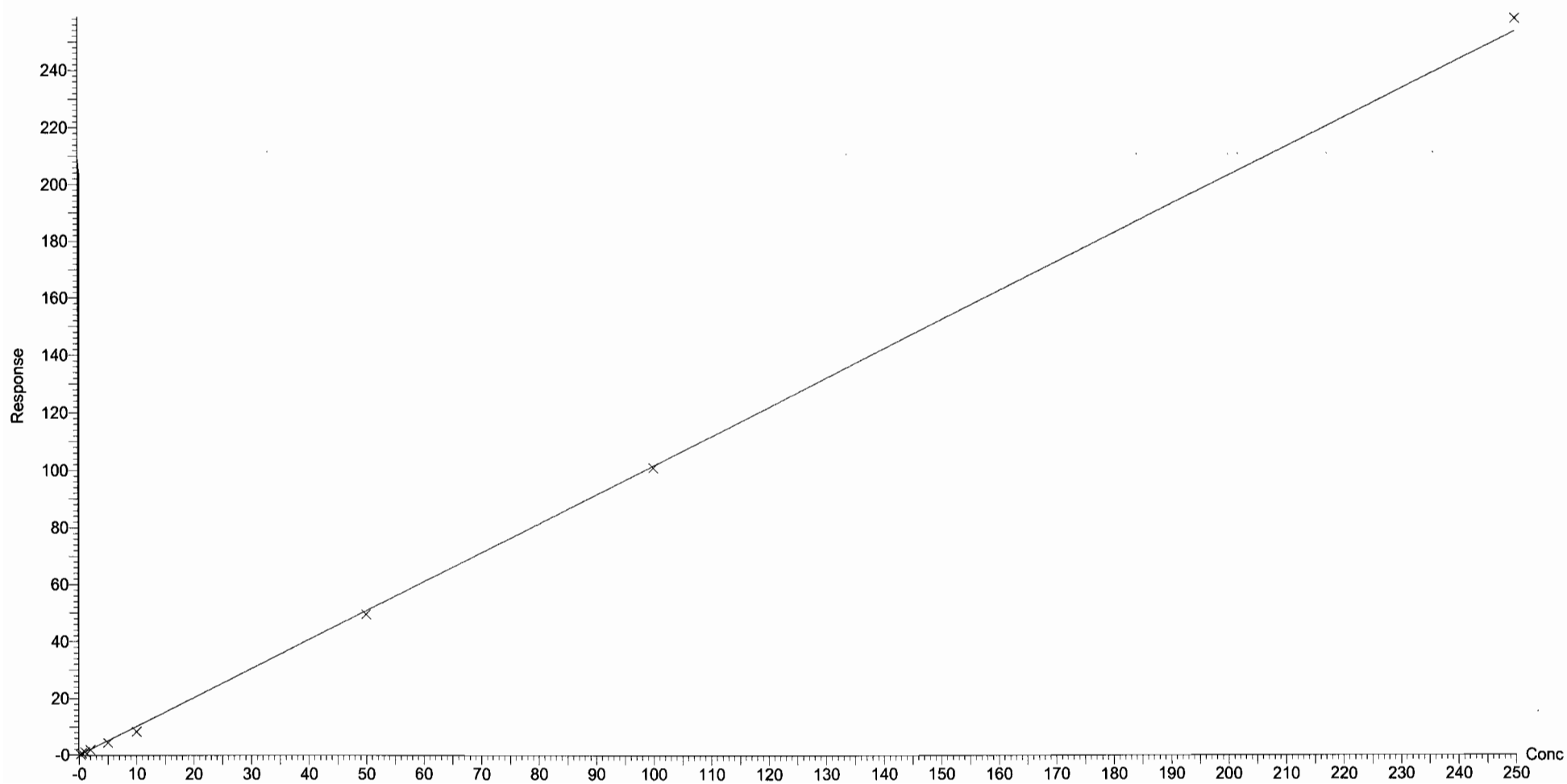
Compound name: L-PFOS

Correlation coefficient:  $r = 0.999334$ ,  $r^2 = 0.998668$

Calibration curve:  $1.01722 * x + -0.0414285$

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

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



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

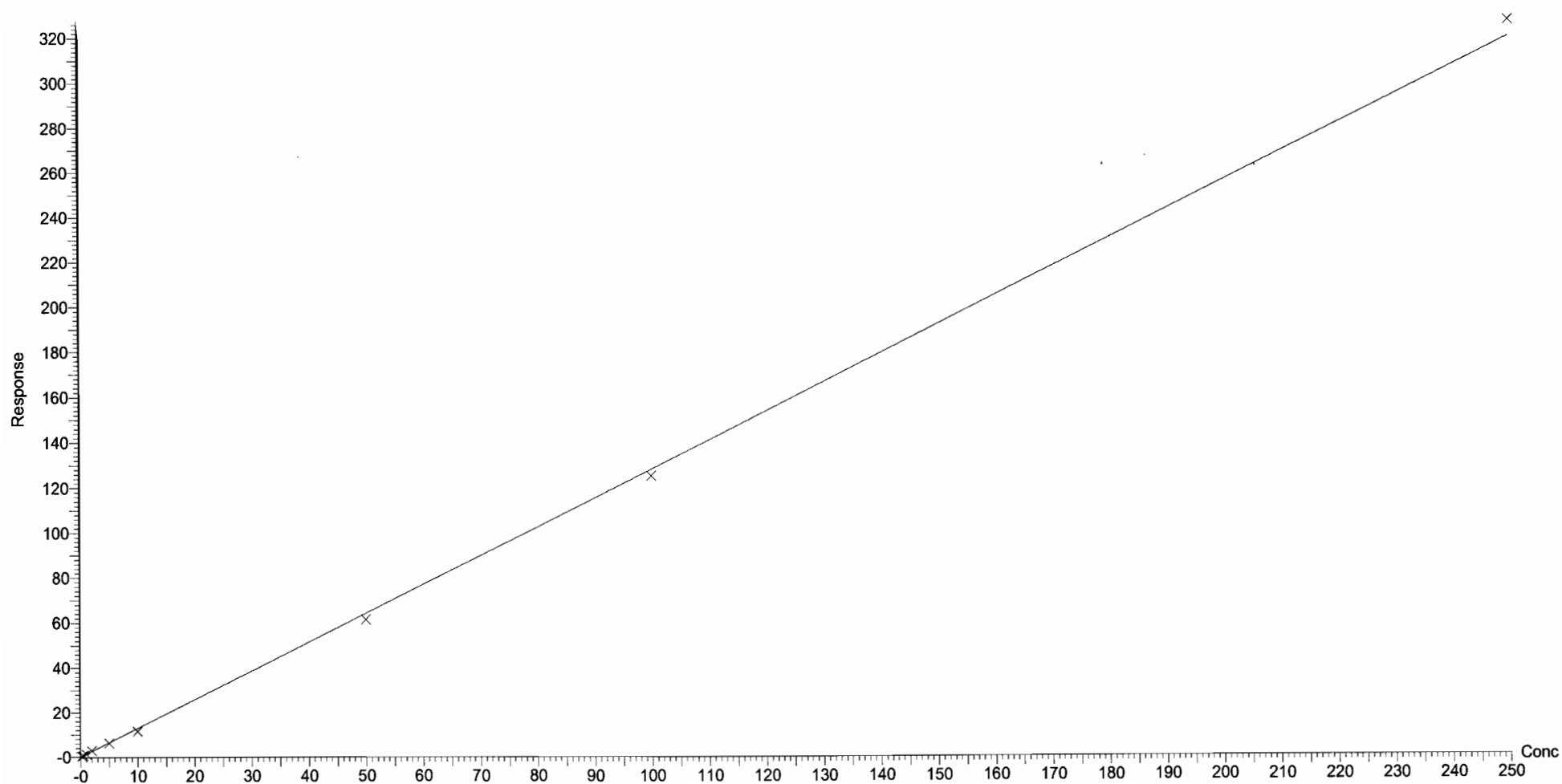
Compound name: PFDA

Correlation coefficient:  $r = 0.999473$ ,  $r^2 = 0.998946$

Calibration curve:  $1.28134 * x + 0.0315821$

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

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



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

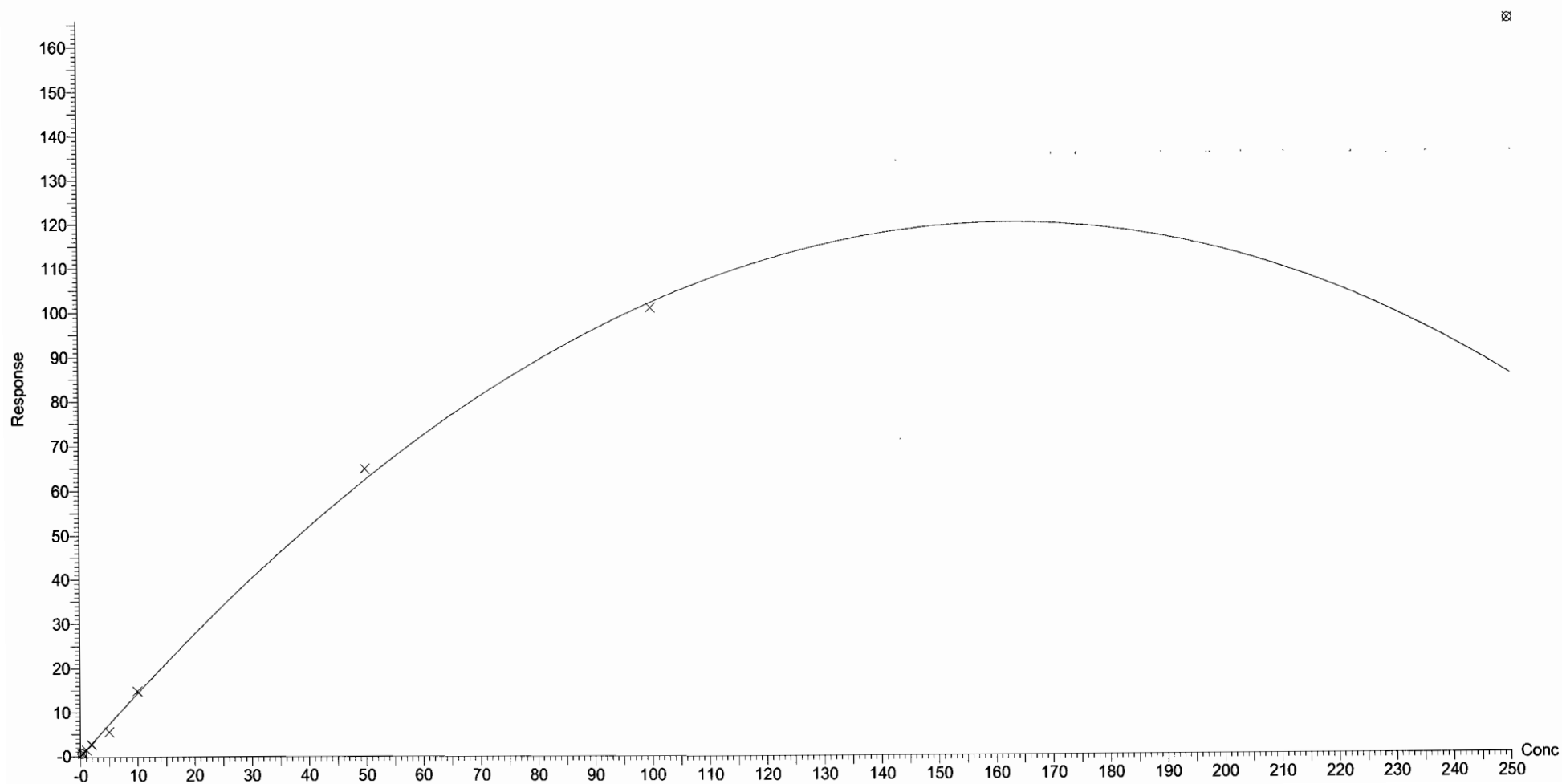
Compound name: 8:2 FTS

Coefficient of Determination:  $R^2 = 0.996235$

Calibration curve:  $-0.00453751 * x^2 + 1.47718 * x - 0.0973776$

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\171031M1\171031M1-CRV.qld

Last Altered:   Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed:        Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

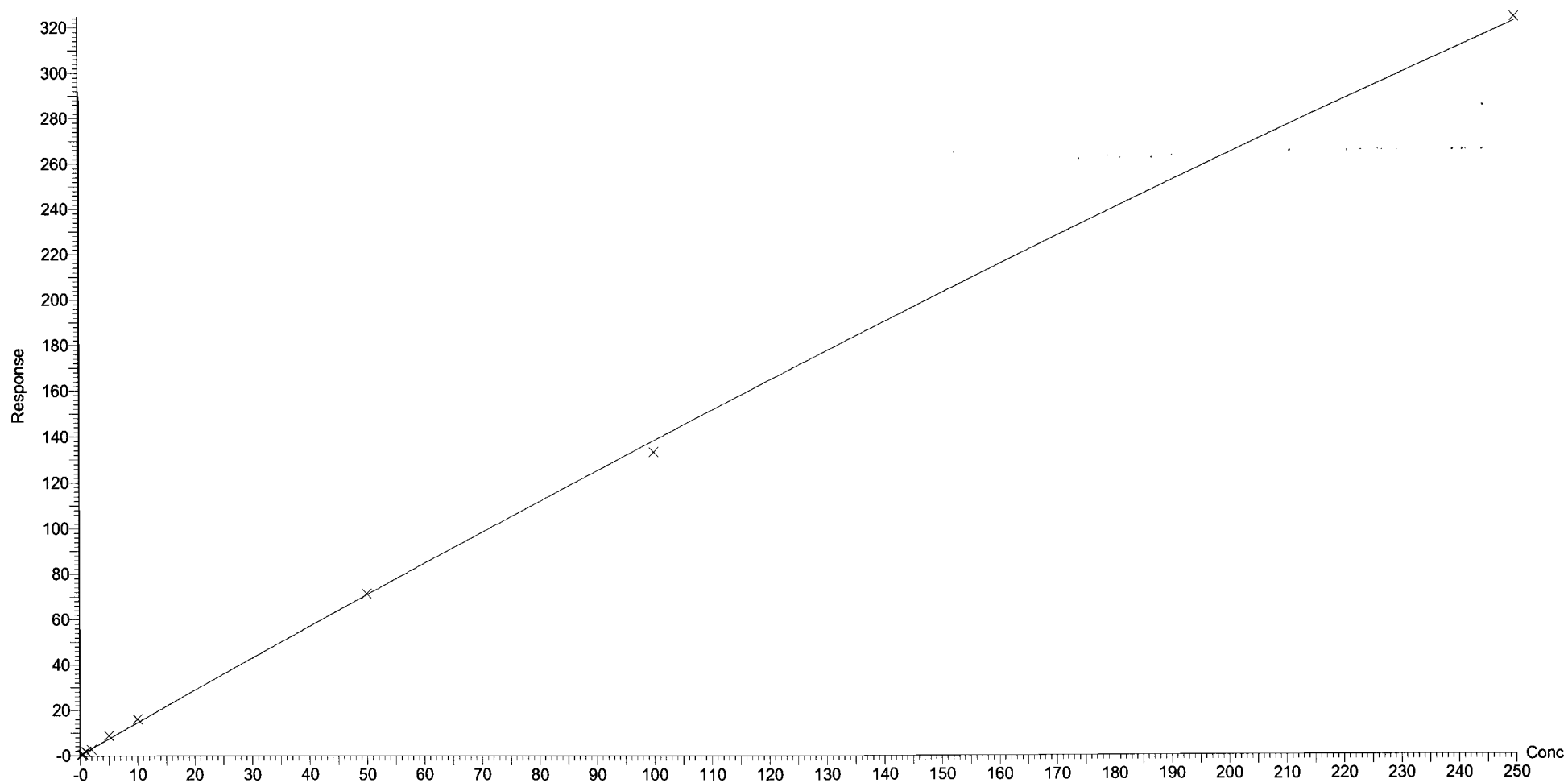
Compound name: N-MeFOSAA

Coefficient of Determination:  $R^2 = 0.998527$

Calibration curve:  $-0.00061126 * x^2 + 1.44366 * x + 0.138034$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

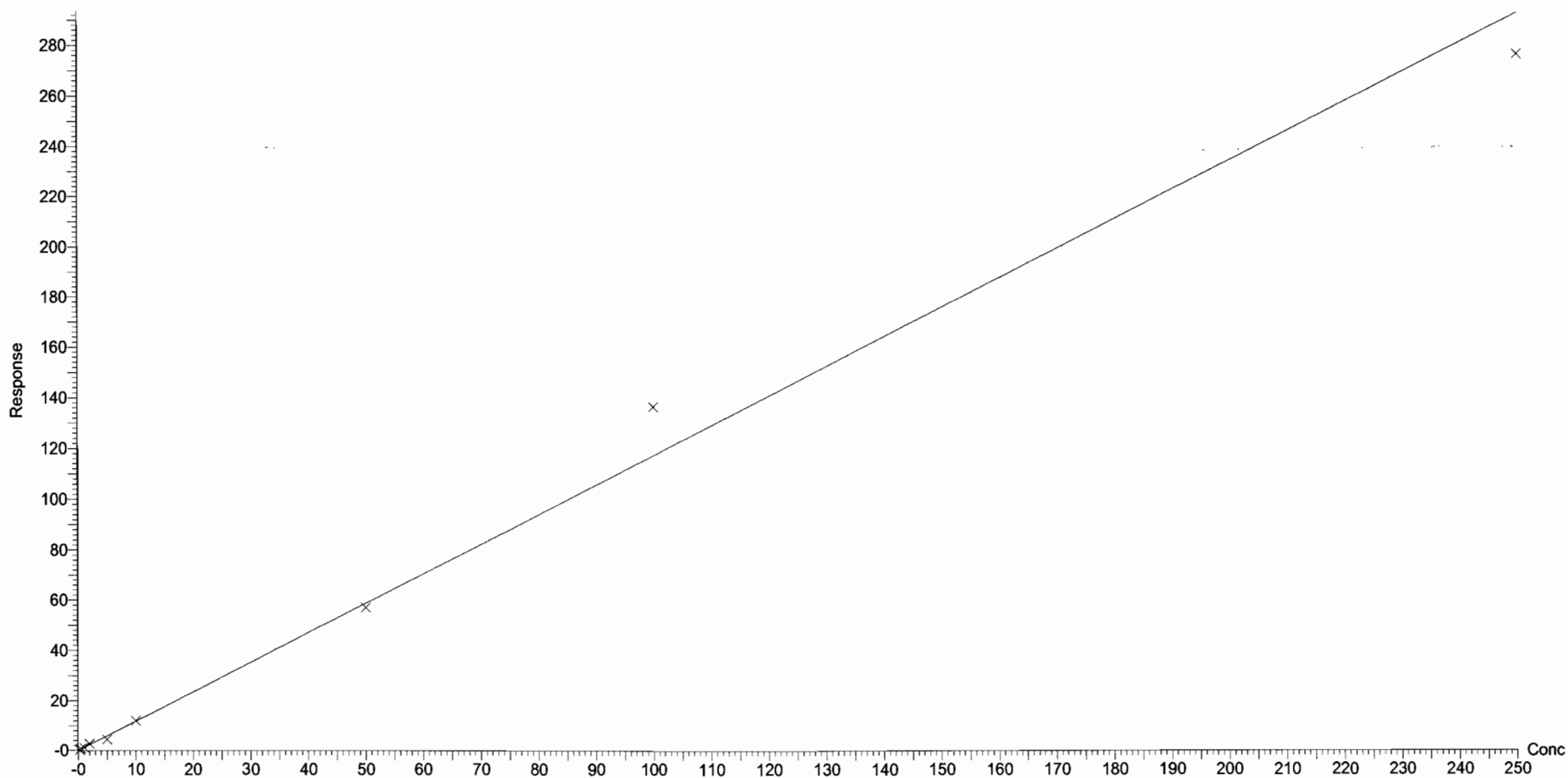
Compound name: N-EtFOSAA

Correlation coefficient:  $r = 0.995319$ ,  $r^2 = 0.990659$

Calibration curve:  $1.17468 * x + -0.0150013$

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

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





Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

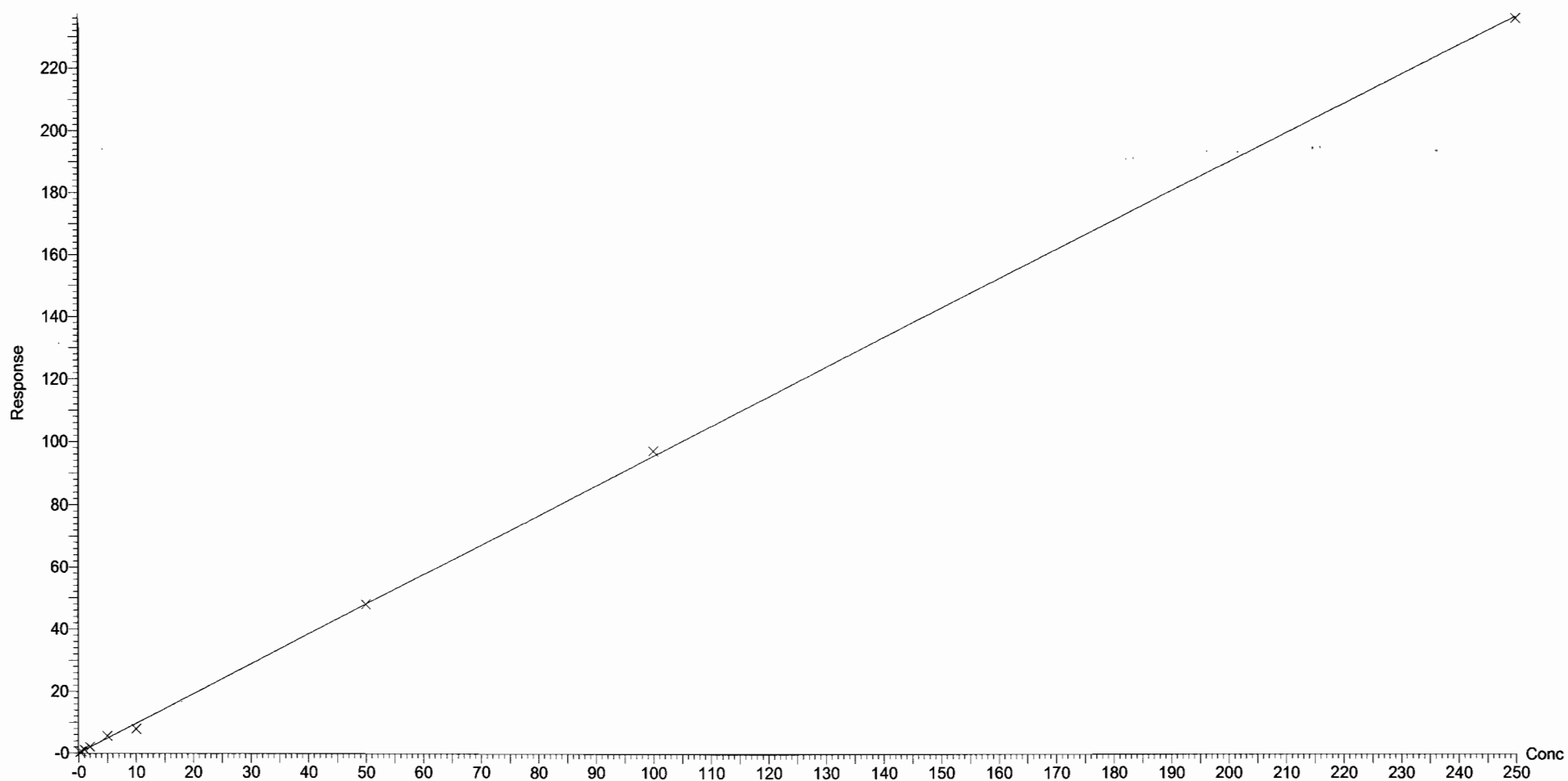
Compound name: PFUdA

Coefficient of Determination:  $R^2 = 0.998778$

Calibration curve:  $-5.23555e-005 * x^2 + 0.962109 * x + 0.0759805$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

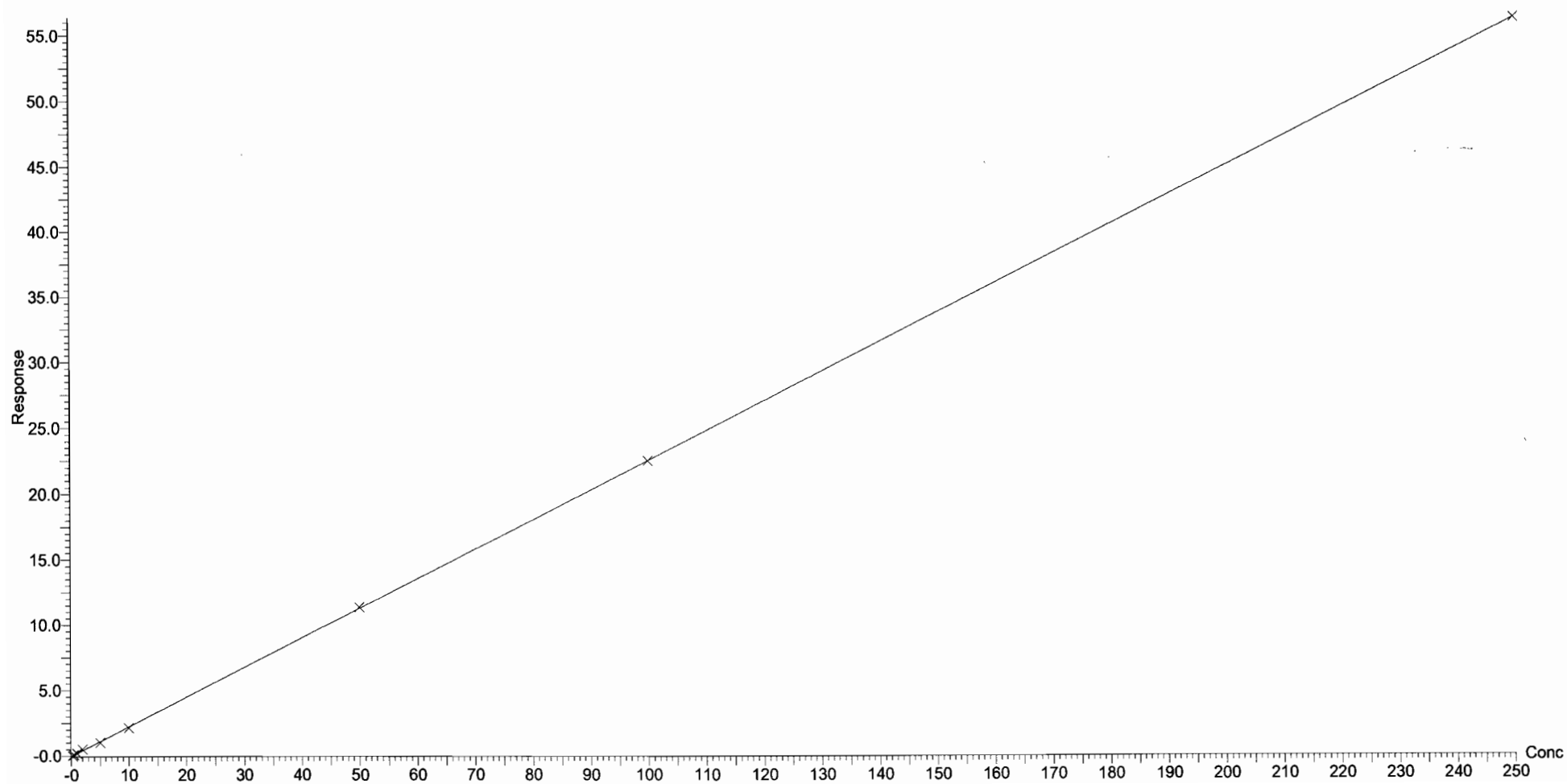
Compound name: PFDS

Coefficient of Determination:  $R^2 = 0.999698$

Calibration curve:  $-2.28699e-006 * x^2 + 0.226098 * x + -0.0396467$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

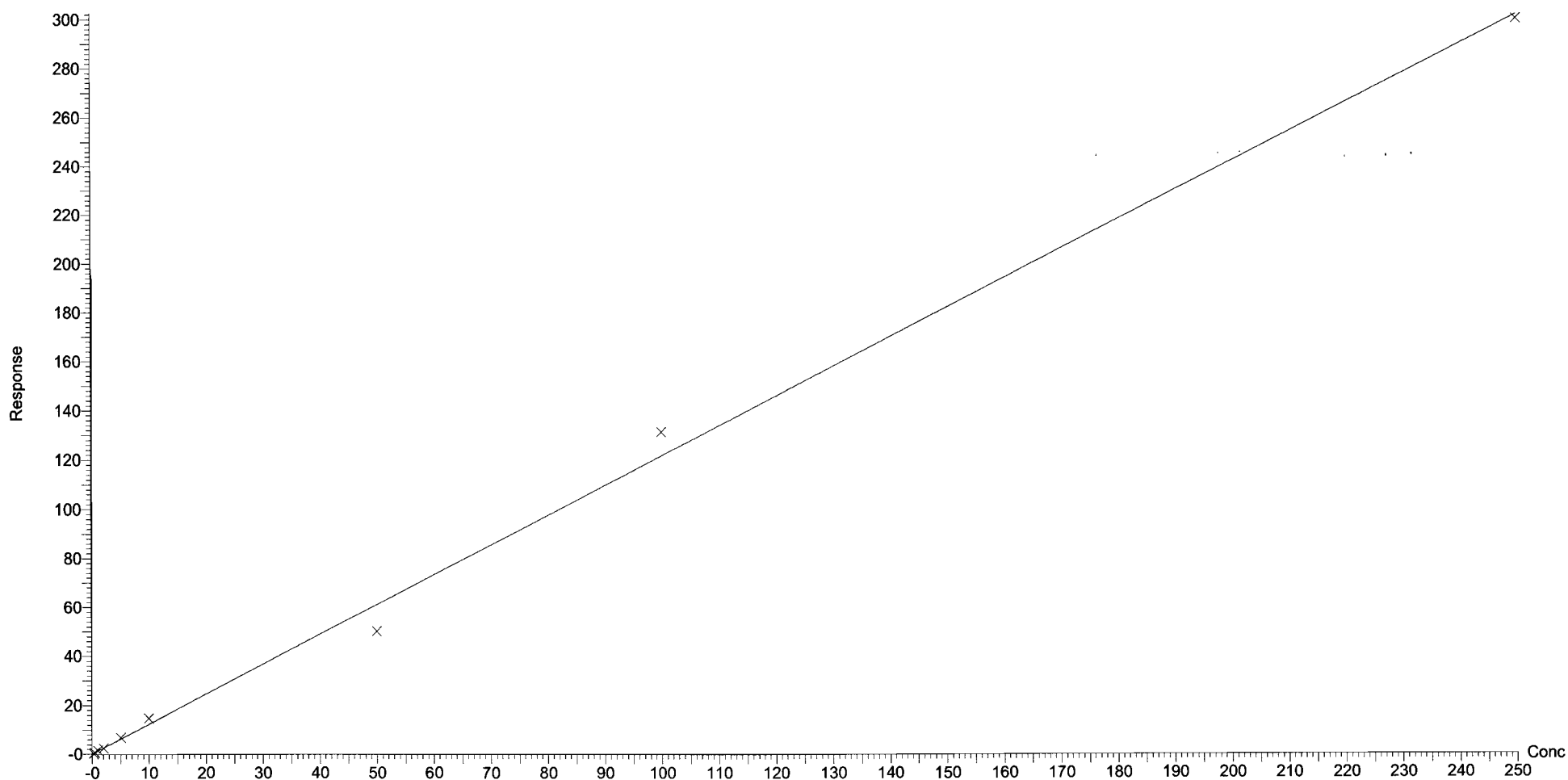
Compound name: PFDoA

Coefficient of Determination:  $R^2 = 0.993286$

Calibration curve:  $-6.13859e-005 * x^2 + 1.22441 * x + 0.0900393$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

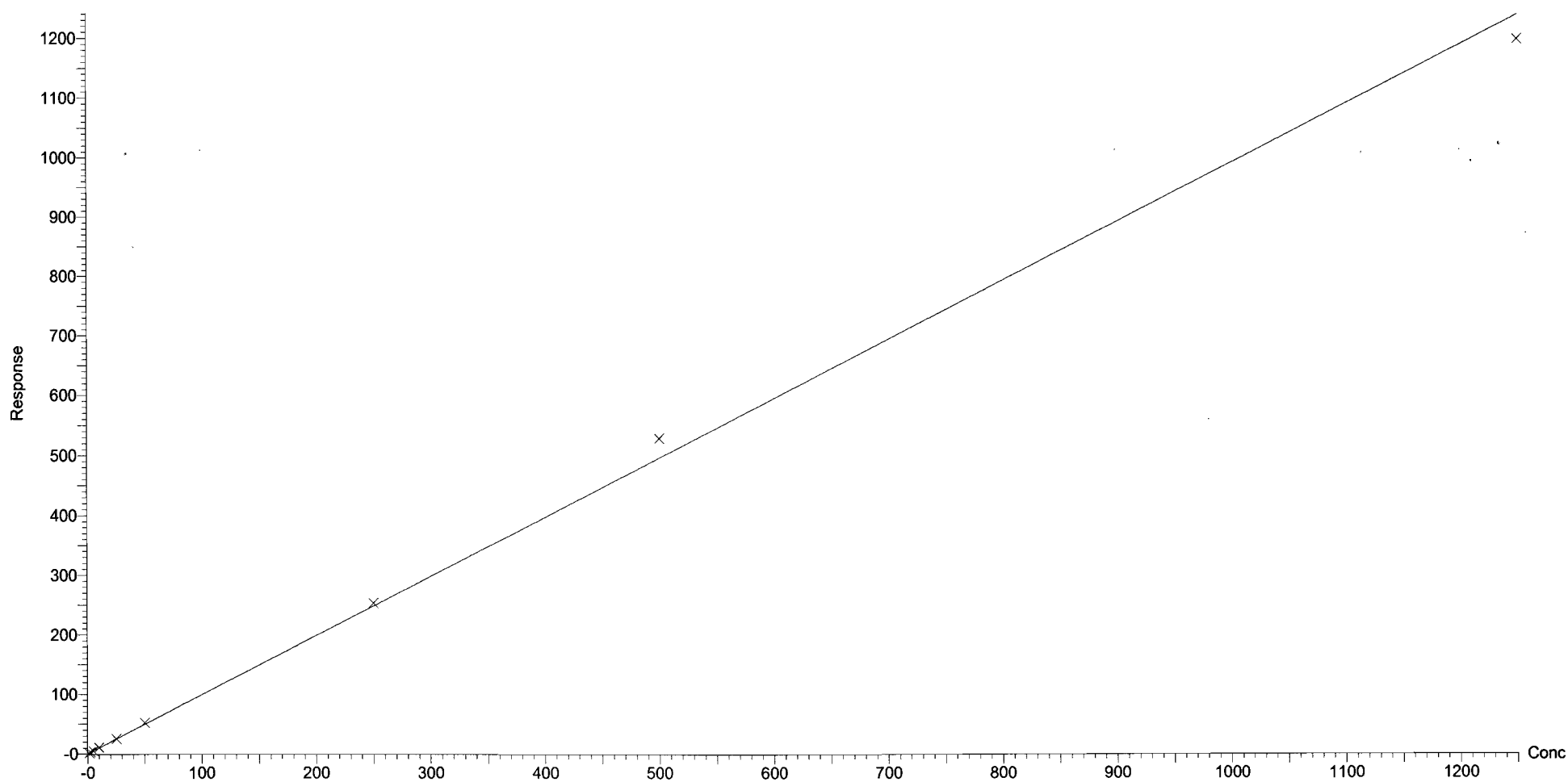
Compound name: N-MeFOSA

Correlation coefficient:  $r = 0.999056$ ,  $r^2 = 0.998113$

Calibration curve:  $0.99285 * x + 0.328893$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 09:42:13 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 09:42:55 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 31 Oct 2017 10:25:33

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

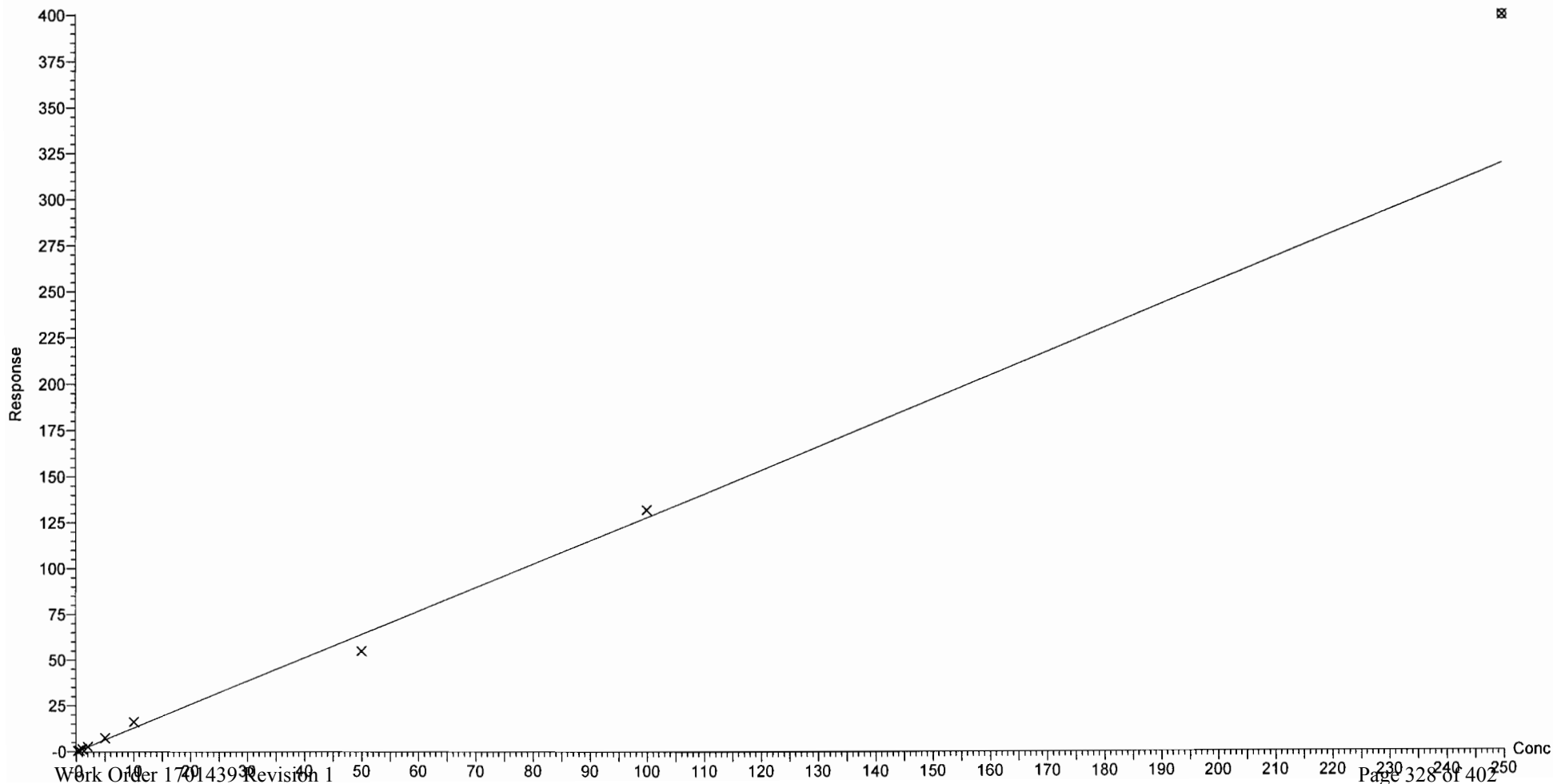
Compound name: PFTTrDA

Coefficient of Determination:  $R^2 = 0.992550$

Calibration curve:  $1.27931 * x$

Response type: Internal Std ( Ref 47 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

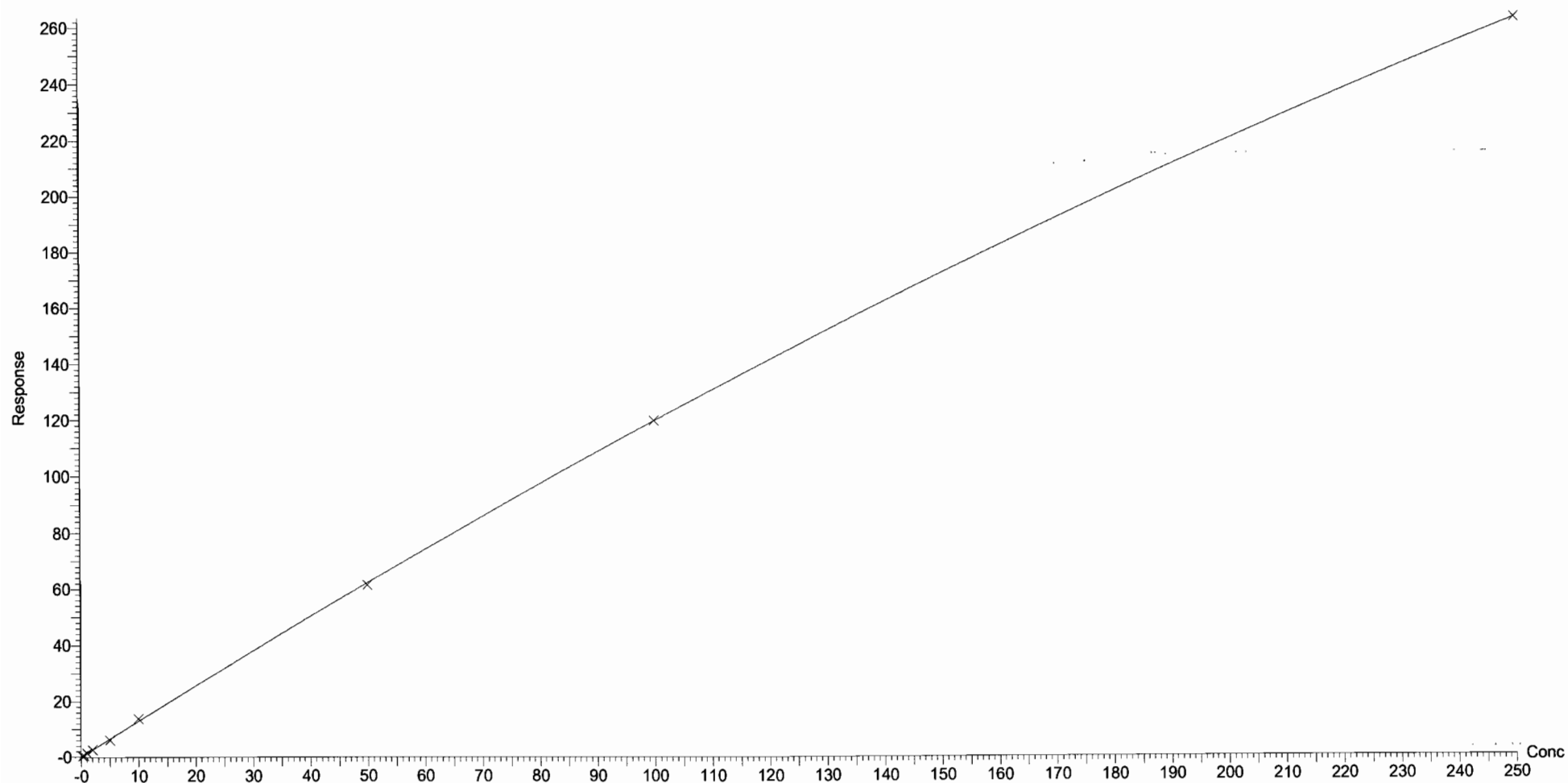
Compound name: PFTeDA

Coefficient of Determination:  $R^2 = 0.999673$

Calibration curve:  $-0.000957767 * x^2 + 1.29262 * x - 0.00461528$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

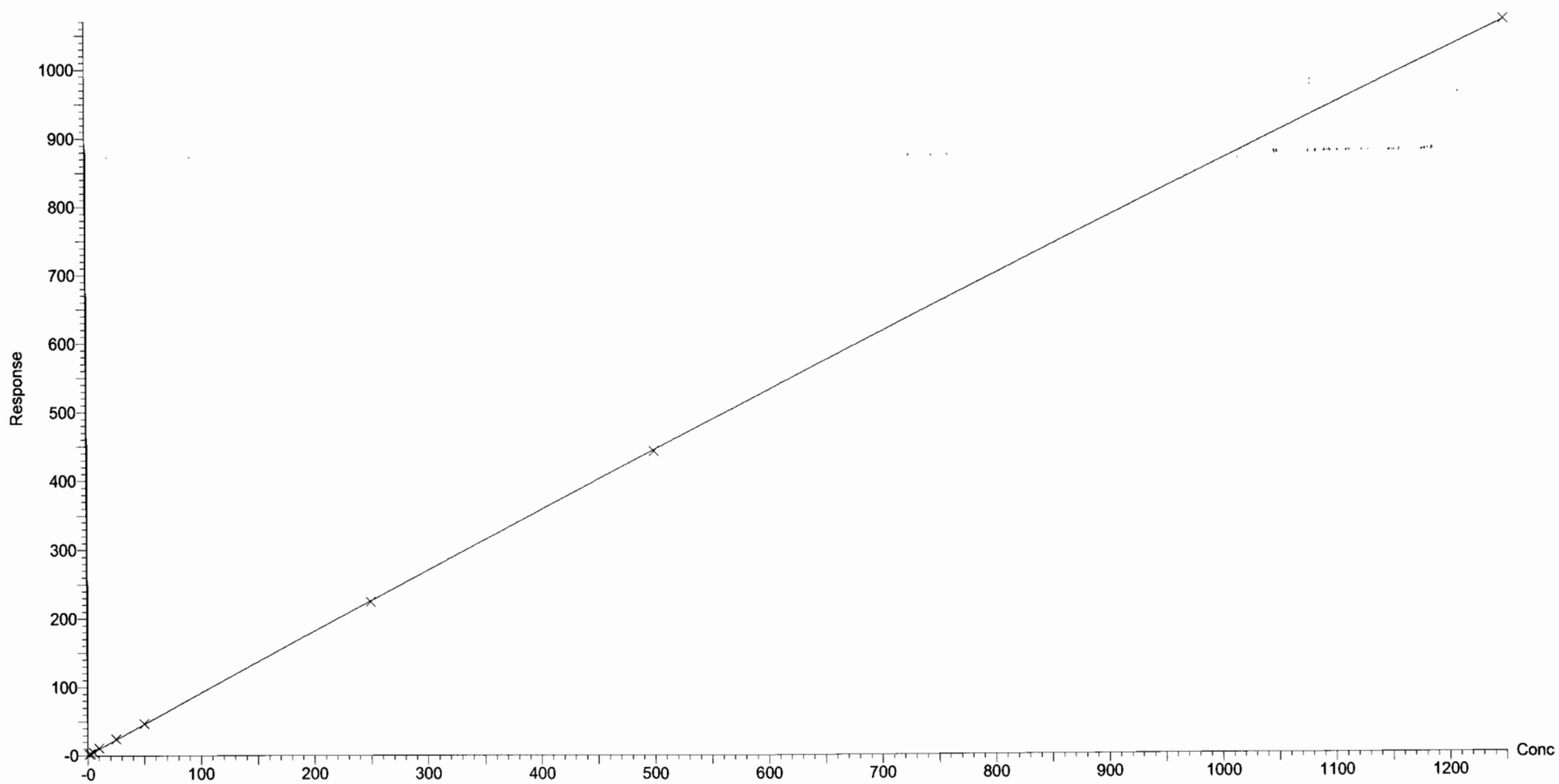
Compound name: N-EtFOSA

Coefficient of Determination:  $R^2 = 0.999831$

Calibration curve:  $-4.41537e-005 * x^2 + 0.910589 * x + 0.484101$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

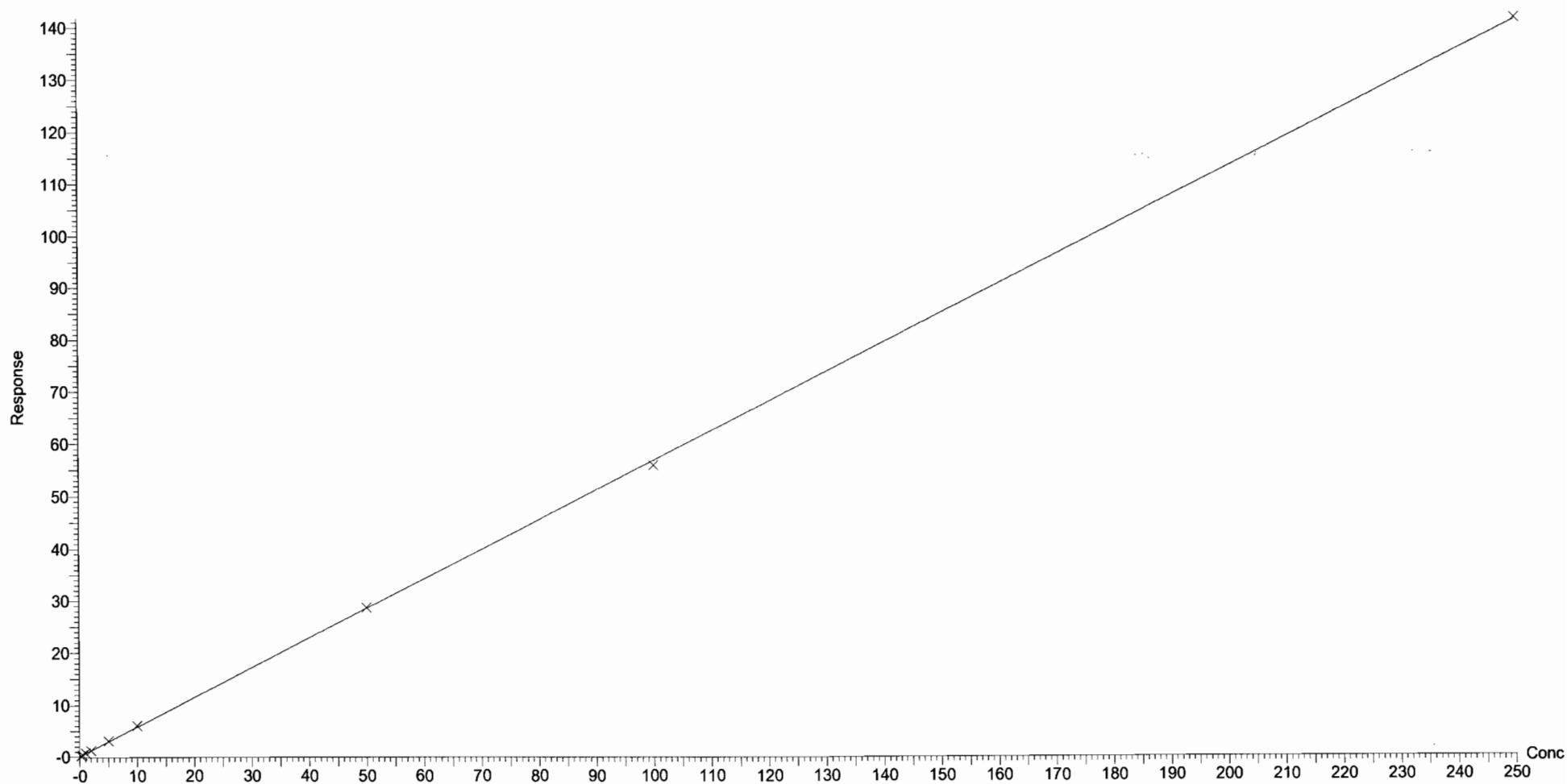
Compound name: PFHxDA

Coefficient of Determination:  $R^2 = 0.999773$

Calibration curve:  $-1.68772e-005 * x^2 + 0.569695 * x + 0.110552$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

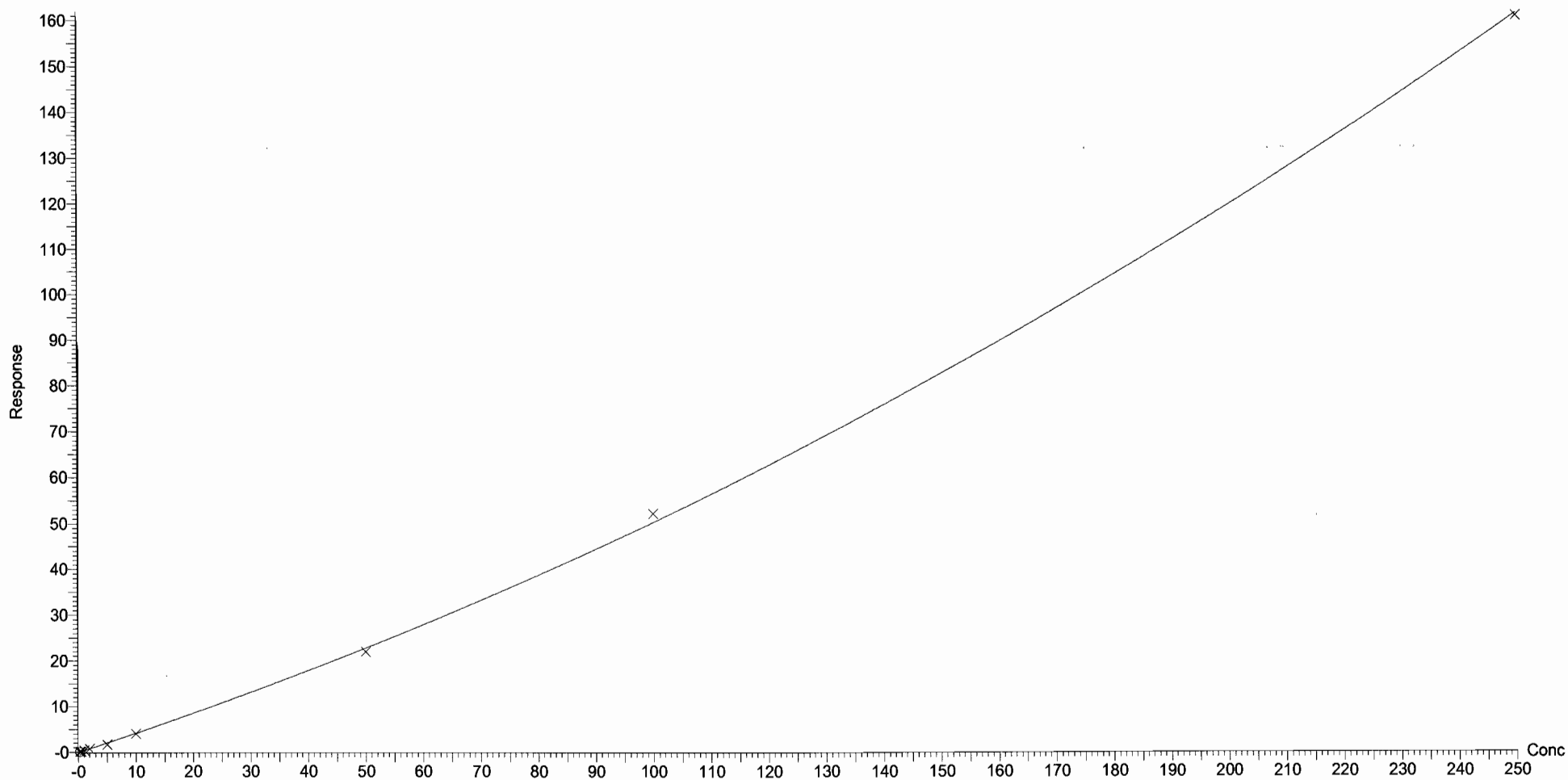
Compound name: PFODA

Coefficient of Determination:  $R^2 = 0.999396$

Calibration curve:  $0.000959304 * x^2 + 0.407622 * x + -0.0239268$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

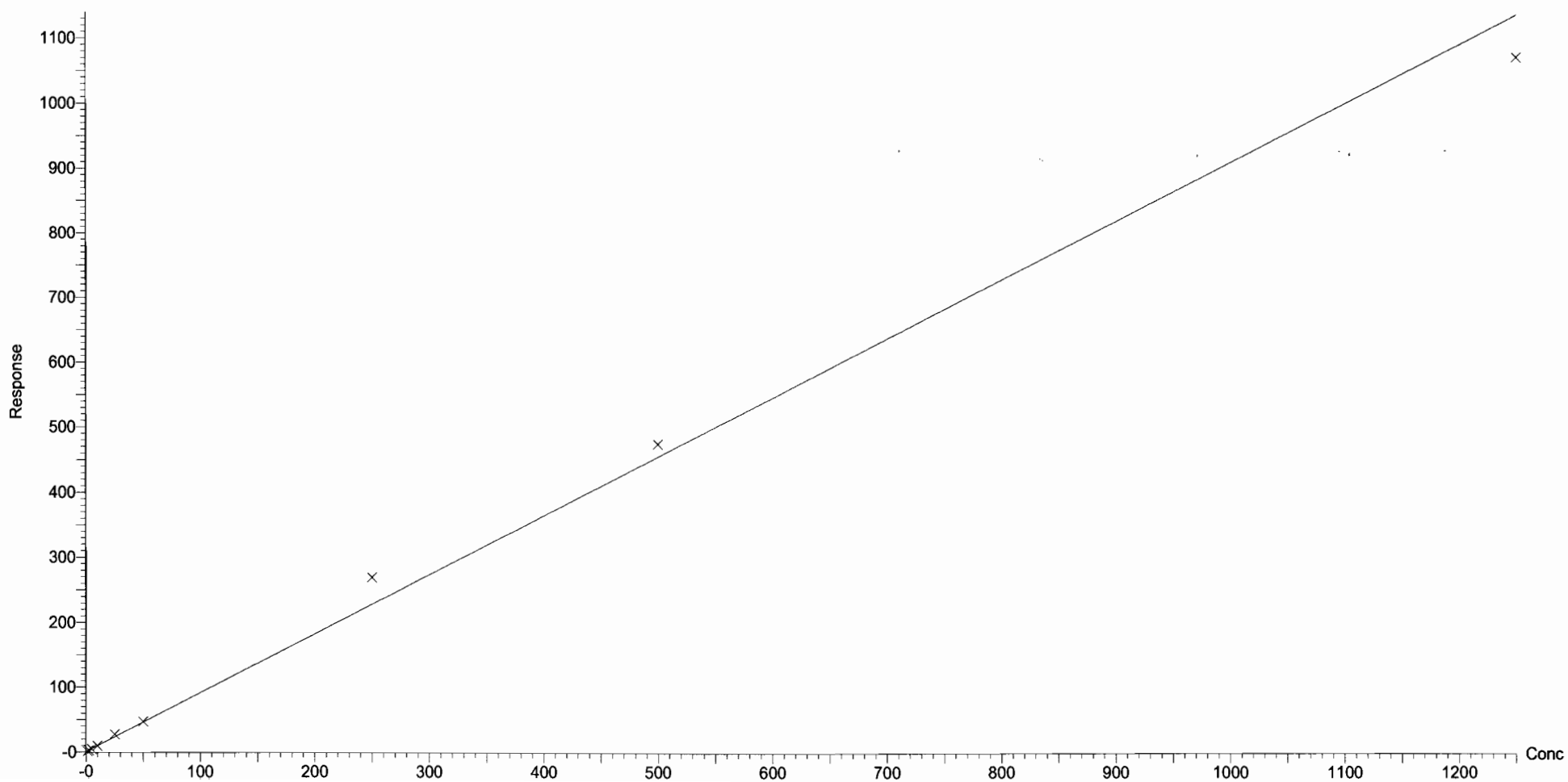
Compound name: N-MeFOSE

Correlation coefficient:  $r = 0.996570$ ,  $r^2 = 0.993151$

Calibration curve:  $0.910887 * x + 0.561201$

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\171031M1\171031M1-CRV.qld

Last Altered:   Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed:        Wednesday, November 01, 2017 08:44:23 Pacific Daylight Time

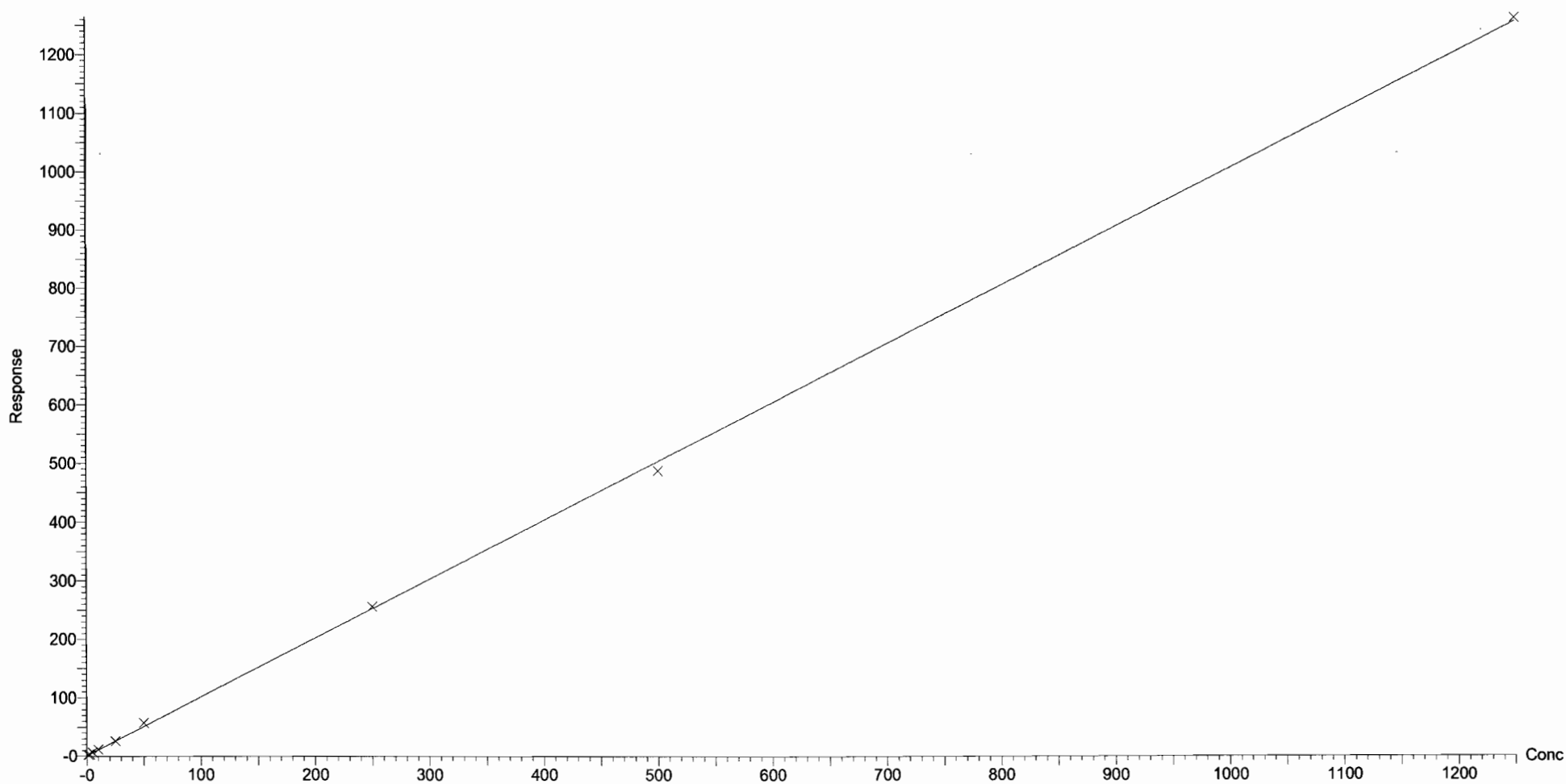
Compound name: N-EtFOSE

Correlation coefficient:  $r = 0.999631$ ,  $r^2 = 0.999262$

Calibration curve:  $1.00592 * x + 0.816282$

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\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

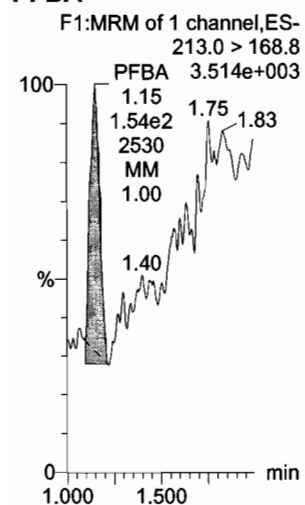
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 31 Oct 2017 10:25:33

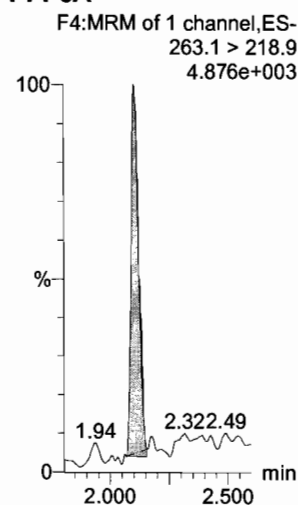
Calibration: 01 Nov 2017 08:21:58

Name: 171031M1\_2, Date: 31-Oct-2017, Time: 16:08:10, ID: ST171031M1-1 PFC CS-2 17J2805, Description: PFC CS-2 17J2805

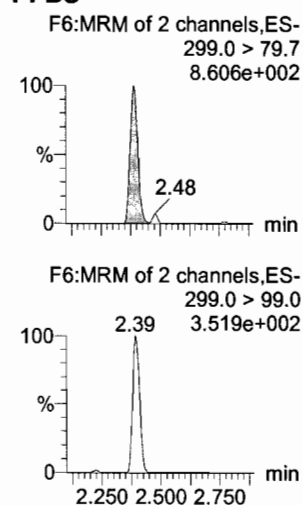
### PFBA



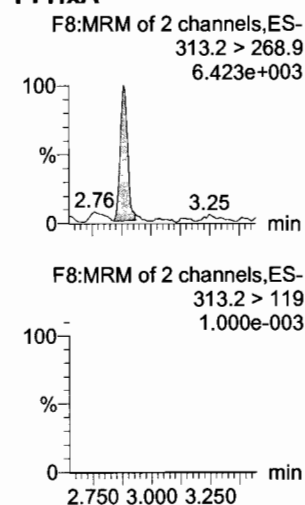
### PFPeA



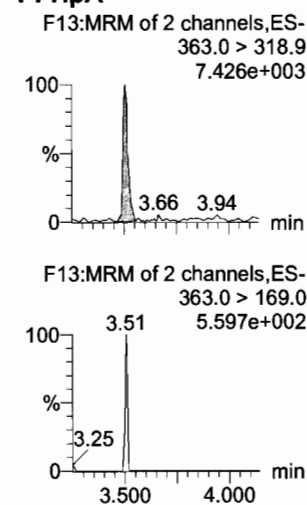
### PFBS



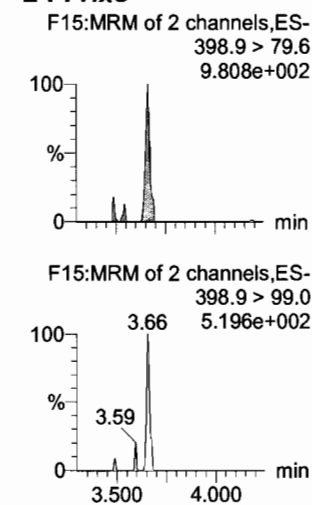
### PFHxA



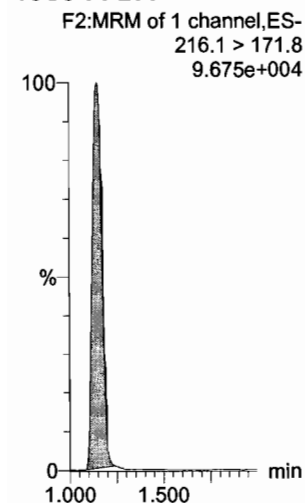
### PFHpA



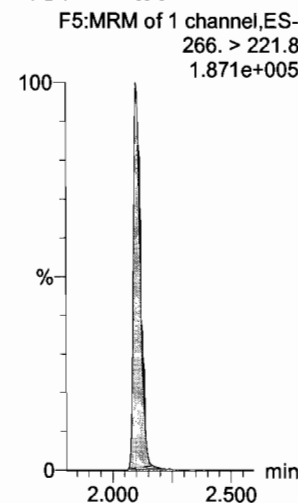
### L-PFHxS



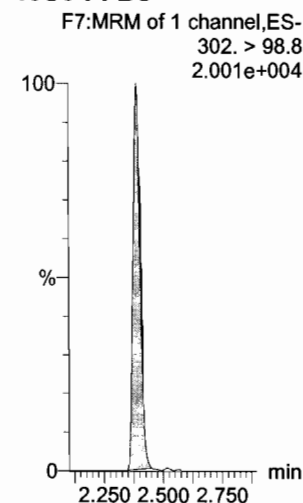
### 13C3-PFBA



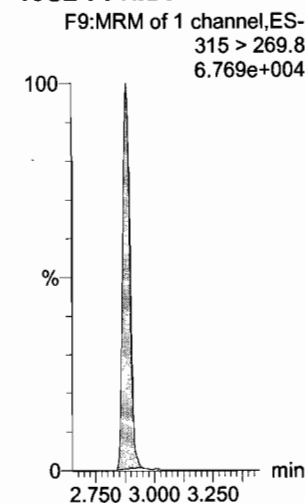
### 13C3-PFPeA



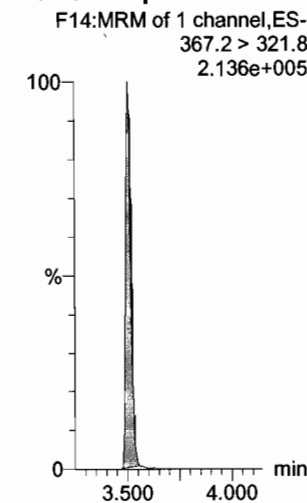
### 13C3-PFBS



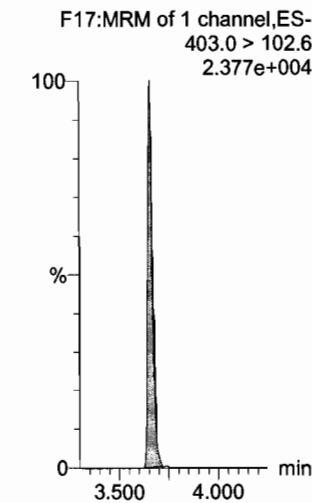
### 13C2-PFHxA



### 13C4-PFHpA



### 18O2-PFHxS



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

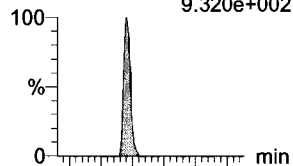
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

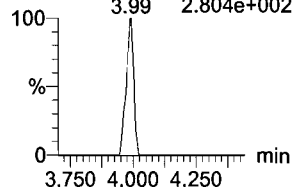
Name: 171031M1\_2, Date: 31-Oct-2017, Time: 16:08:10, ID: ST171031M1-1 PFC CS-2 17J2805, Description: PFC CS-2 17J2805

### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
9.320e+002

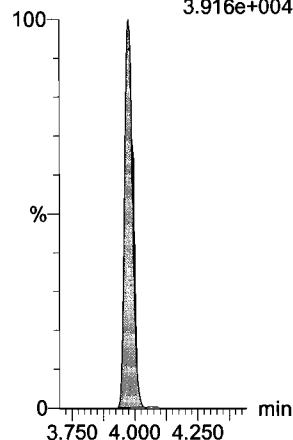


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.804e+002



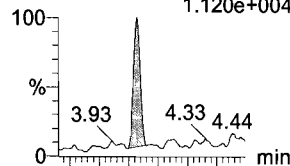
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
3.916e+004

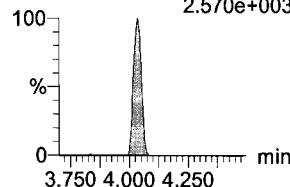


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
1.120e+004

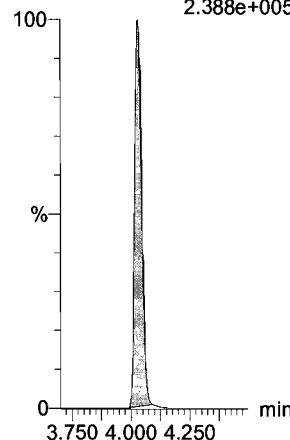


F18:MRM of 2 channels,ES-  
413 > 169  
2.570e+003



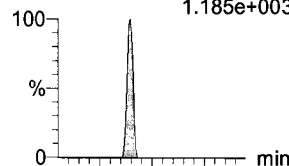
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.388e+005

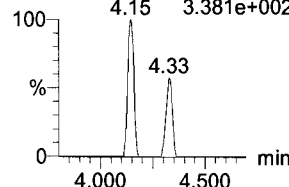


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.185e+003

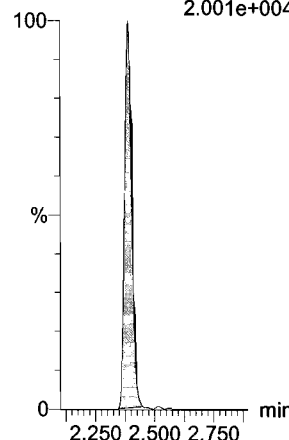


F23:MRM of 2 channels,ES-  
449 > 98.7  
3.381e+002



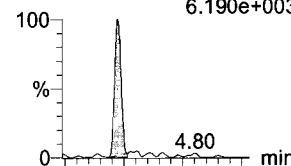
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.001e+004

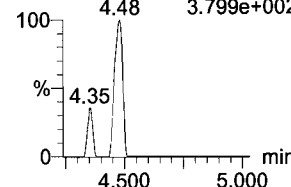


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
6.190e+003

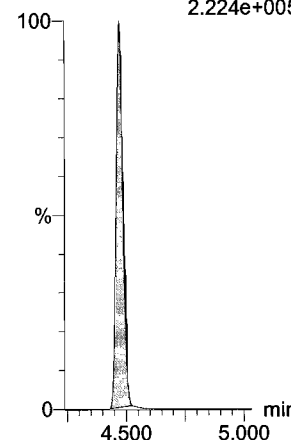


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
3.799e+002



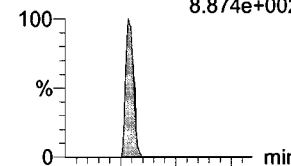
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.224e+005

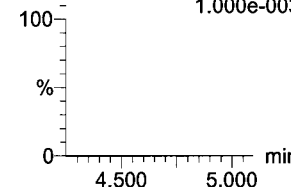


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
8.874e+002

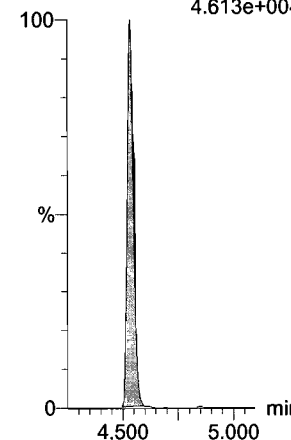


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.000e-003



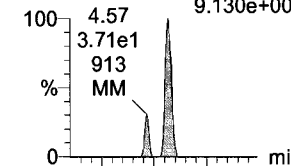
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
4.613e+004

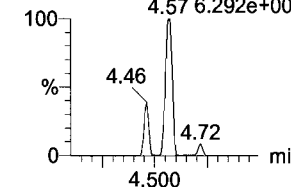


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
9.130e+002

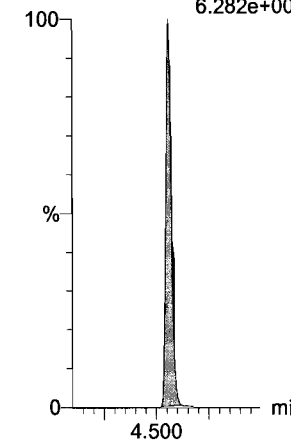


F29:MRM of 2 channels,ES-  
499 > 99  
6.292e+002



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.282e+004



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

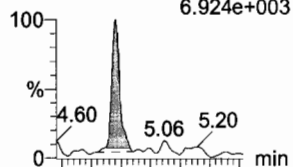
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

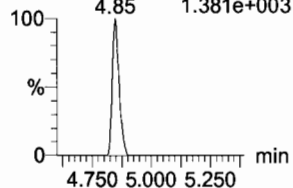
Name: 171031M1\_2, Date: 31-Oct-2017, Time: 16:08:10, ID: ST171031M1-1 PFC CS-2 17J2805, Description: PFC CS-2 17J2805

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
6.924e+003

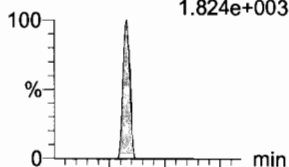


F34:MRM of 2 channels,ES-  
513 > 219  
1.381e+003

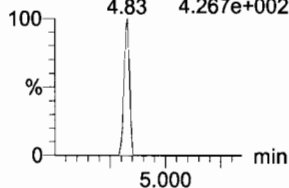


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
1.824e+003

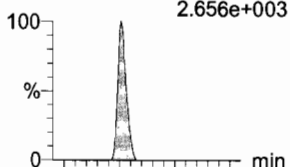


F39:MRM of 2 channels,ES-  
527 > 80  
4.267e+002

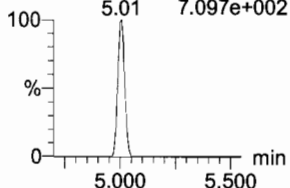


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
2.656e+003

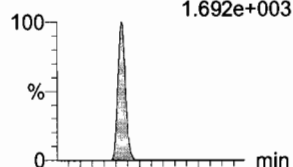


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
7.097e+002

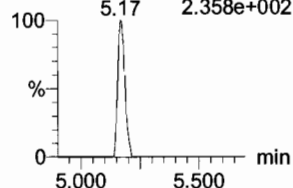


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.692e+003

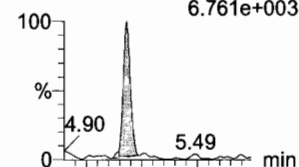


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
2.358e+002

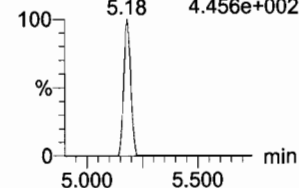


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
6.761e+003

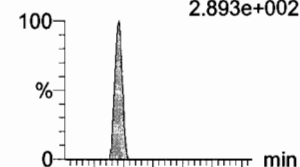


F42:MRM of 2 channels,ES-  
563.0 > 269  
4.456e+002

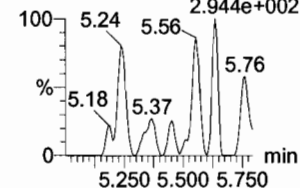


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
2.893e+002

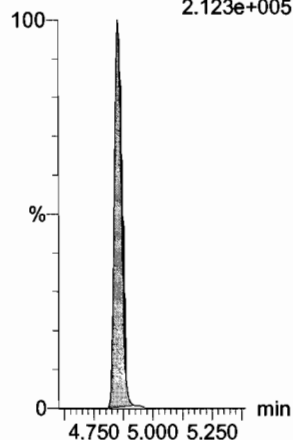


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
2.944e+002



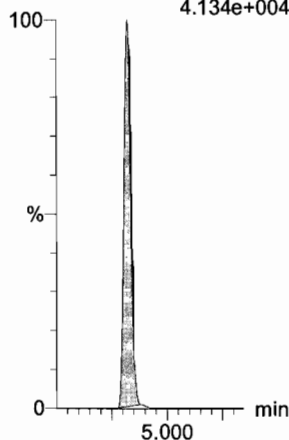
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.123e+005



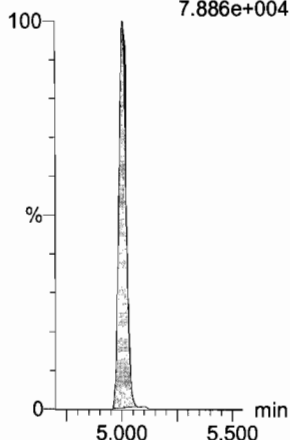
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.134e+004



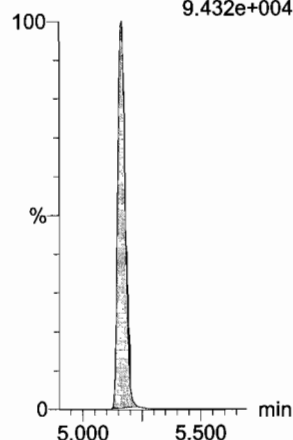
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
7.886e+004



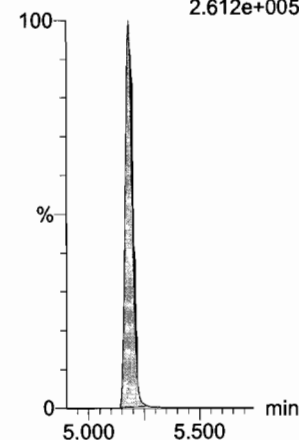
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
9.432e+004



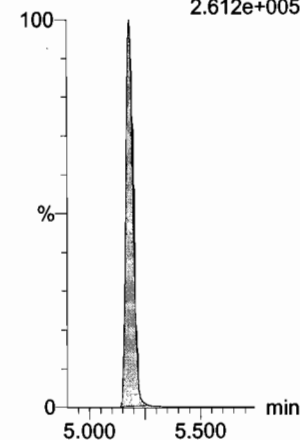
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.612e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.612e+005

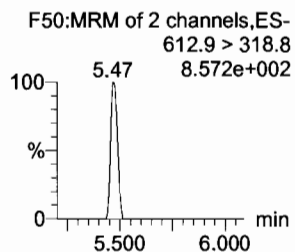
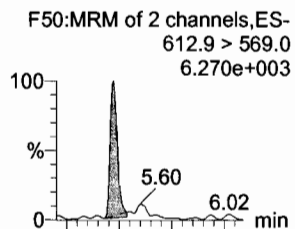


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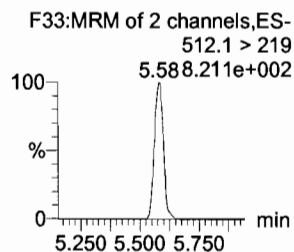
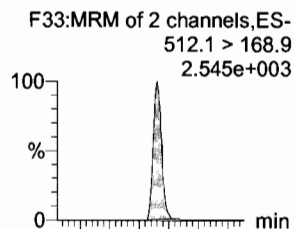
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_2, Date: 31-Oct-2017, Time: 16:08:10, ID: ST171031M1-1 PFC CS-2 17J2805, Description: PFC CS-2 17J2805

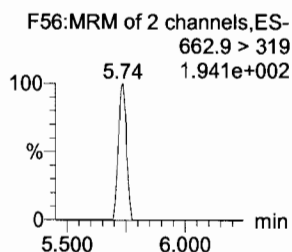
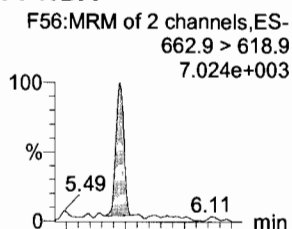
**PFDaA**



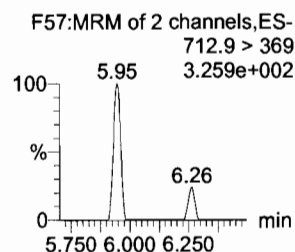
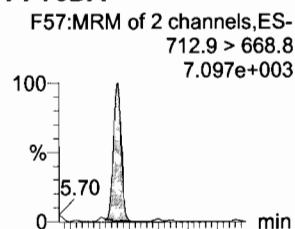
**N-MeFOSA**



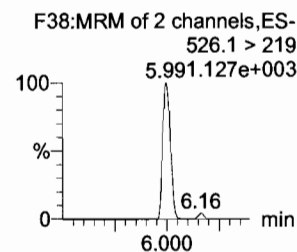
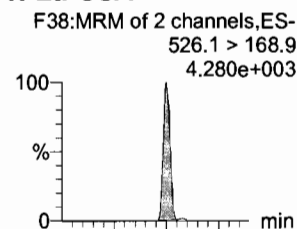
**PFTrDA**



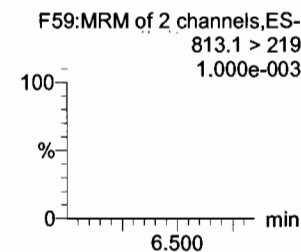
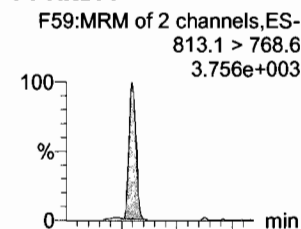
**PFTeDA**



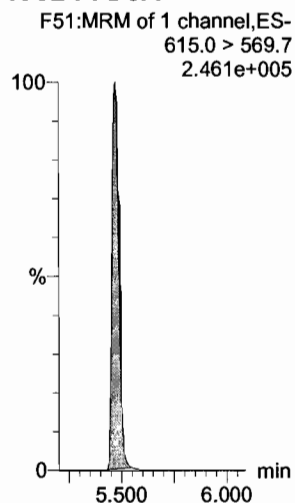
**N-EtFOSA**



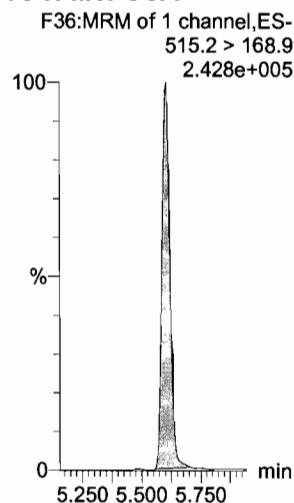
**PFHxDA**



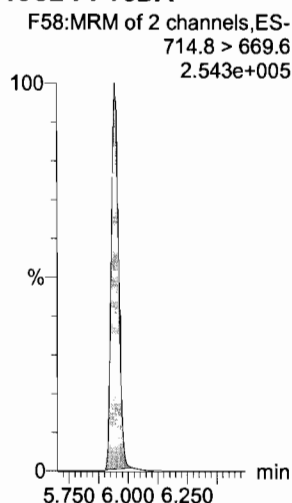
**13C2-PFDaA**



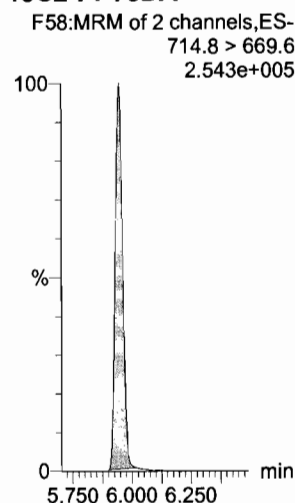
**d3-N-MeFOSA**



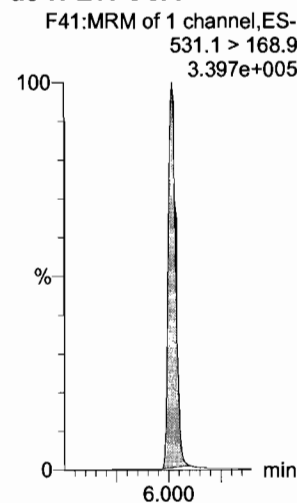
**13C2-PFTeDA**



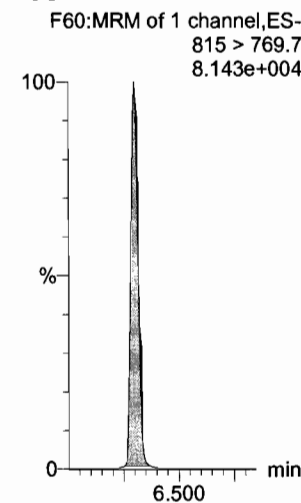
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

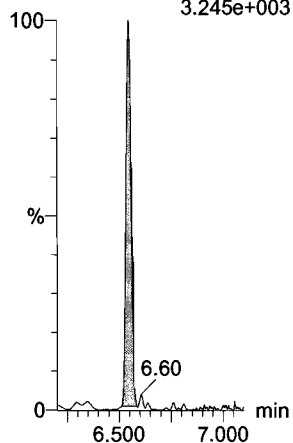
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_2, Date: 31-Oct-2017, Time: 16:08:10, ID: ST171031M1-1 PFC CS-2 17J2805, Description: PFC CS-2 17J2805

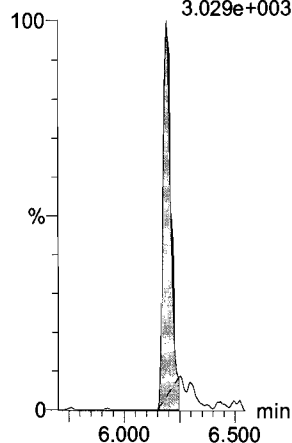
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
3.245e+003



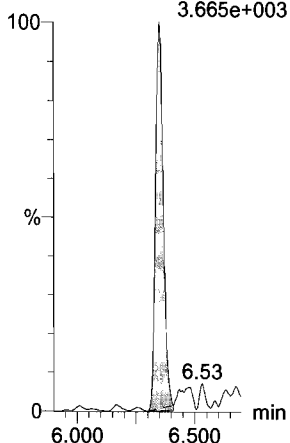
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
3.029e+003



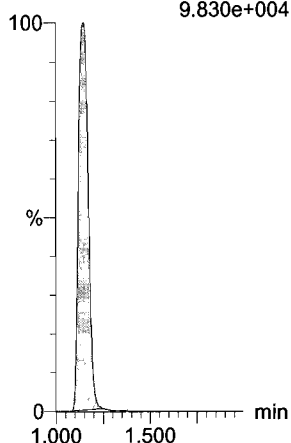
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.665e+003



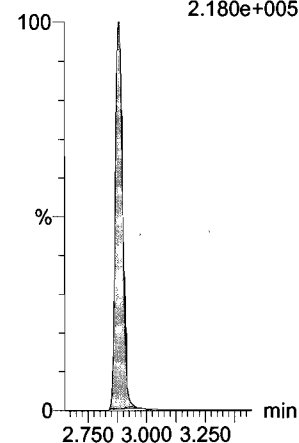
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
9.830e+004



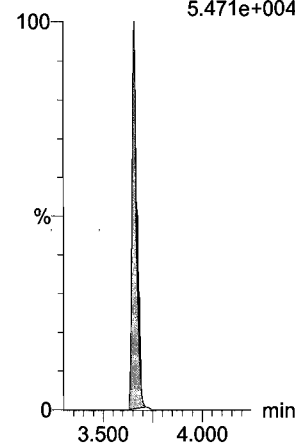
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
2.180e+005



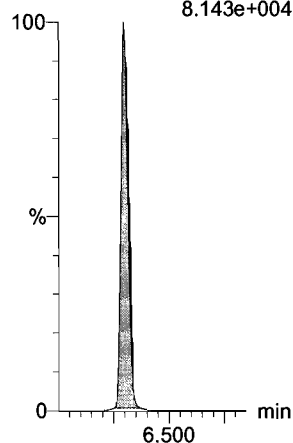
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
5.471e+004



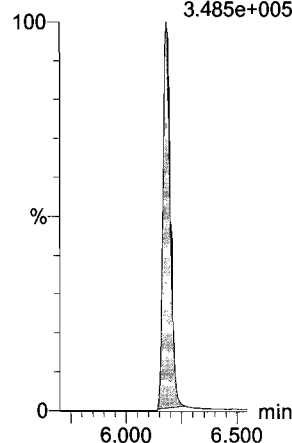
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
8.143e+004



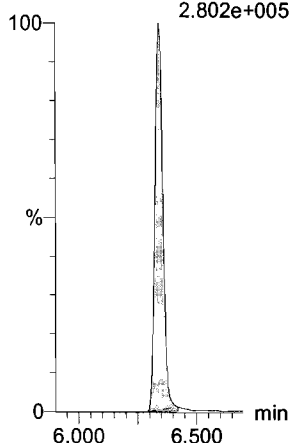
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
3.485e+005



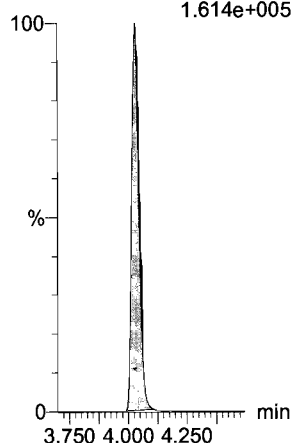
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
2.802e+005



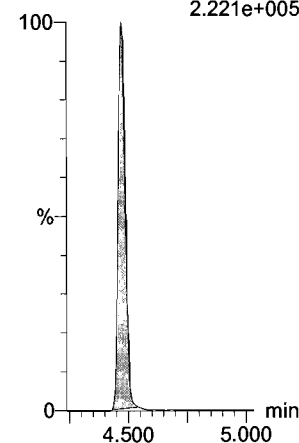
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
1.614e+005



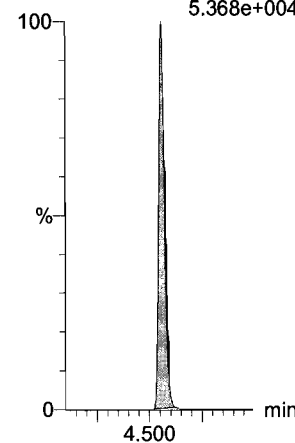
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.221e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.368e+004





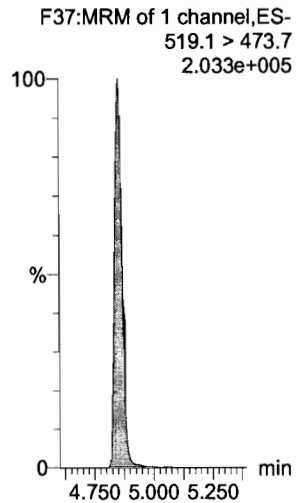
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_2, Date: 31-Oct-2017, Time: 16:08:10, ID: ST171031M1-1 PFC CS-2 17J2805, Description: PFC CS-2 17J2805

**13C6-PFDA**

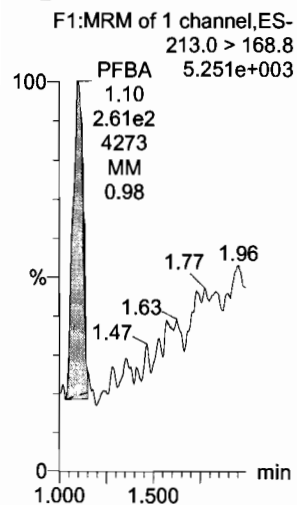


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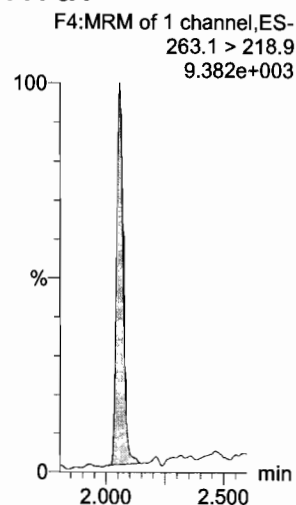
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_3, Date: 31-Oct-2017, Time: 16:19:21, ID: ST171031M1-2 PFC CS-1 17J2806, Description: PFC CS-1 17J2806

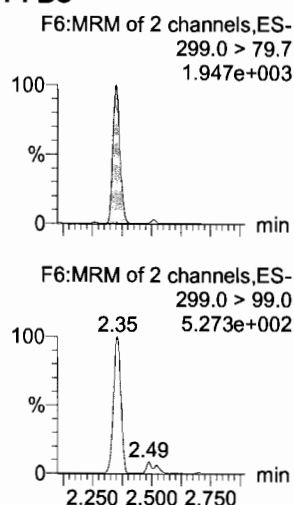
**PFBA**



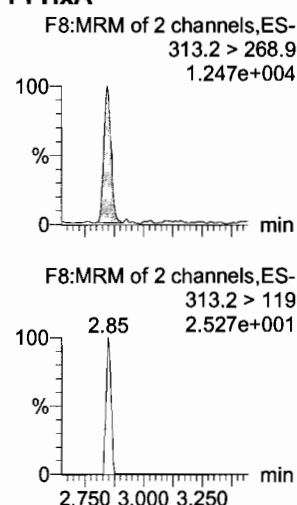
**PFPeA**



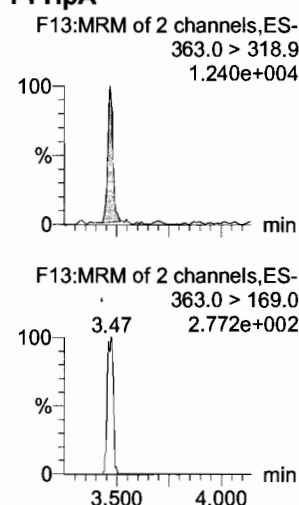
**PFBS**



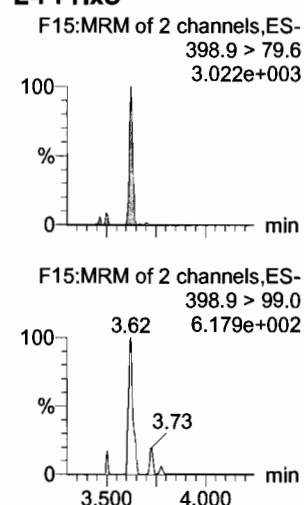
**PFHxA**



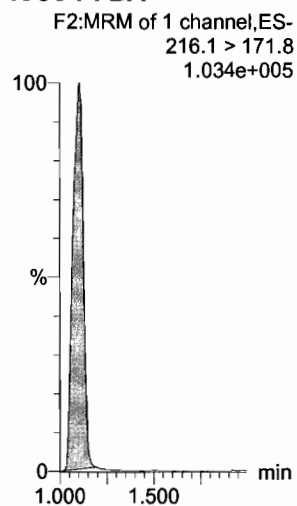
**PFHpA**



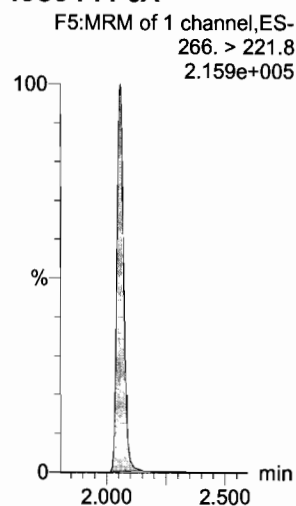
**L-PFHxS**



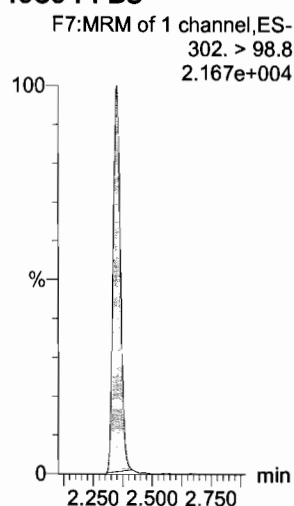
**13C3-PFBA**



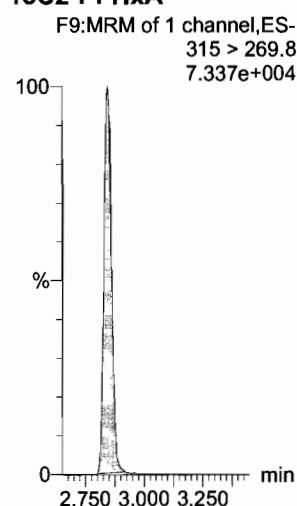
**13C3-PFPeA**



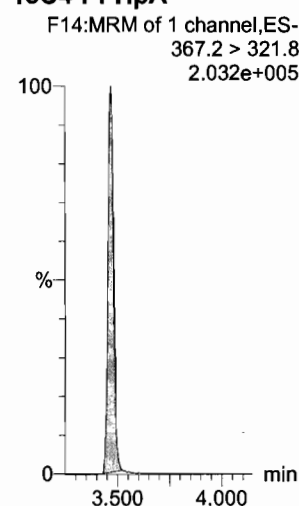
**13C3-PFBS**



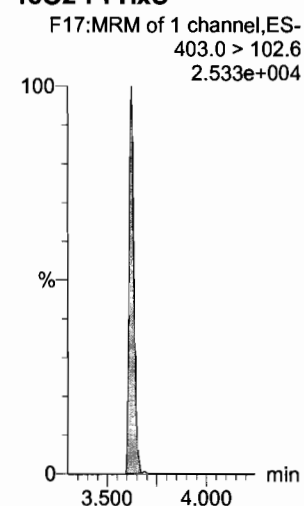
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

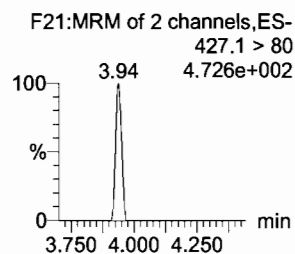
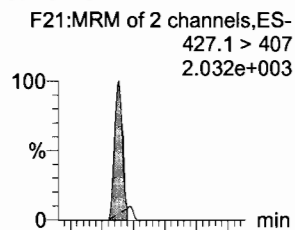


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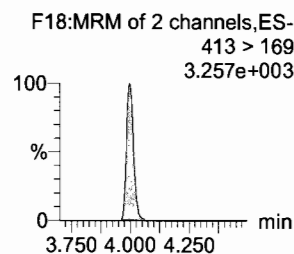
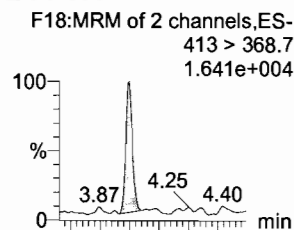
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_3, Date: 31-Oct-2017, Time: 16:19:21, ID: ST171031M1-2 PFC CS-1 17J2806, Description: PFC CS-1 17J2806

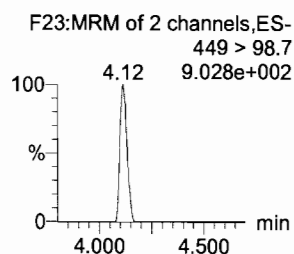
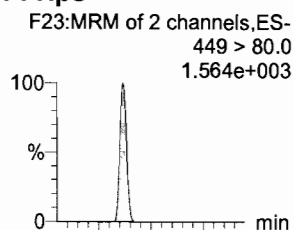
### 6:2 FTS



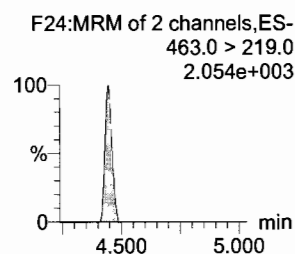
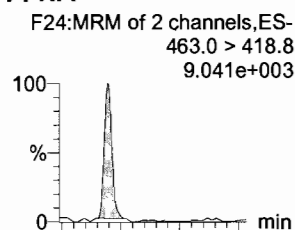
### L-PFOA



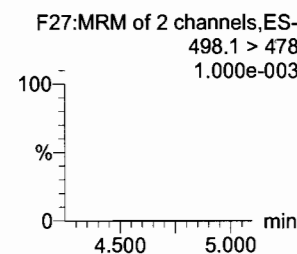
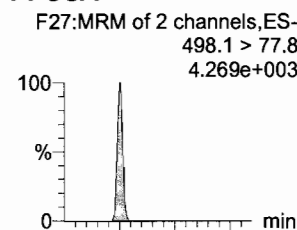
### PFHpS



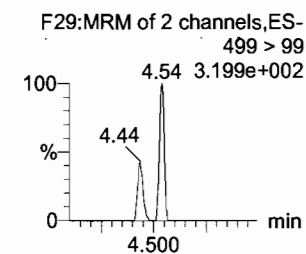
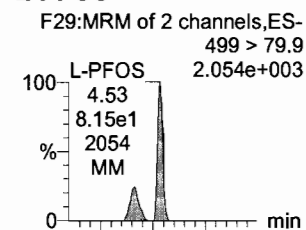
### PFNA



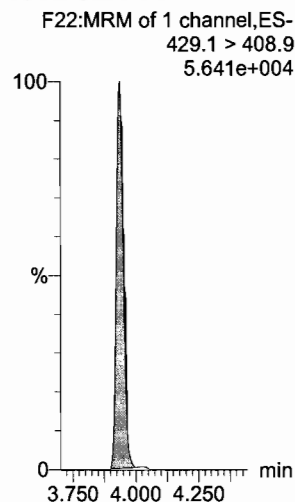
### PFOSA



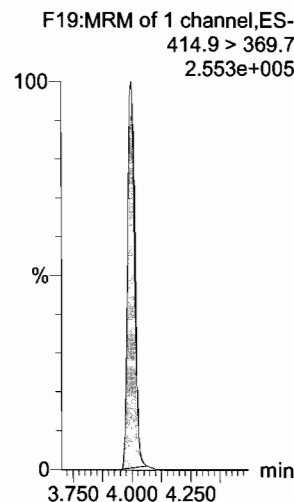
### L-PFOS



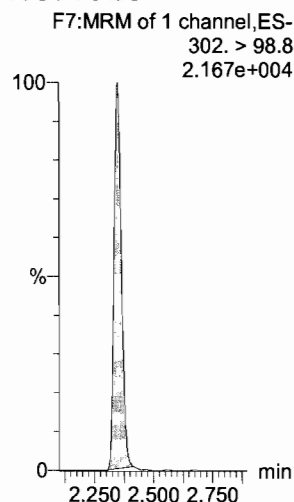
### 13C2-6:2 FTS



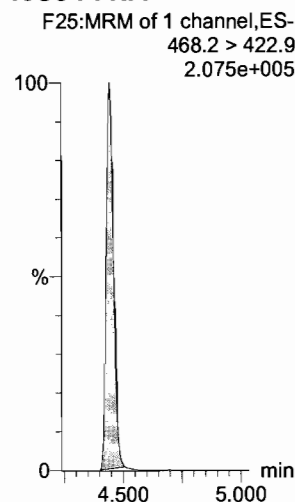
### 13C2-PFOA



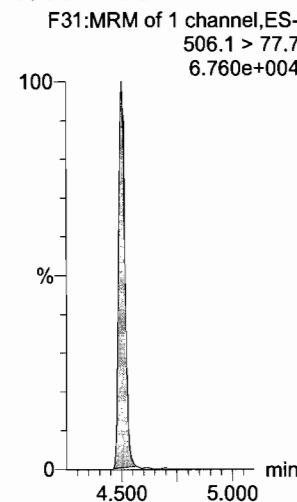
### 13C3-PFBS



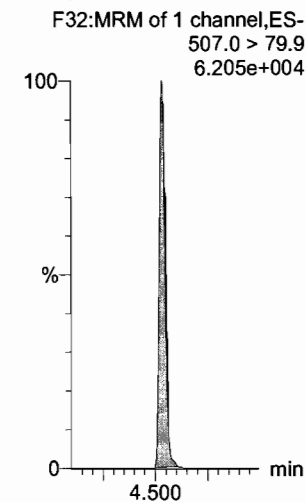
### 13C5-PFNA



### 13C8-PFOSA



### 13C8-PFOS

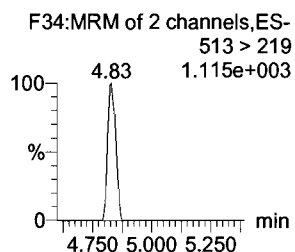
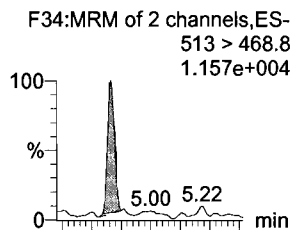


Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

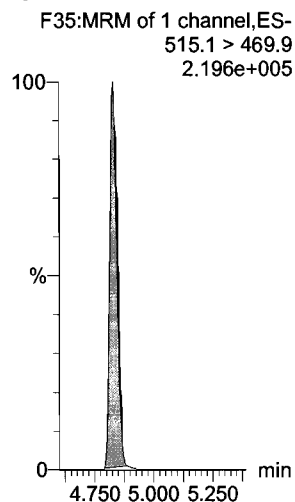
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_3, Date: 31-Oct-2017, Time: 16:19:21, ID: ST171031M1-2 PFC CS-1 17J2806, Description: PFC CS-1 17J2806

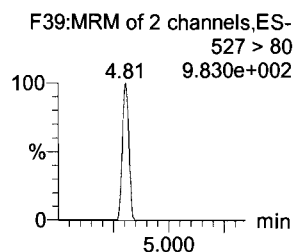
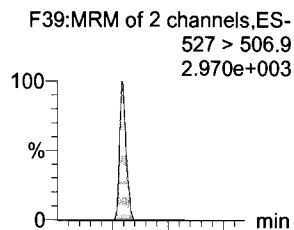
**PFDA**



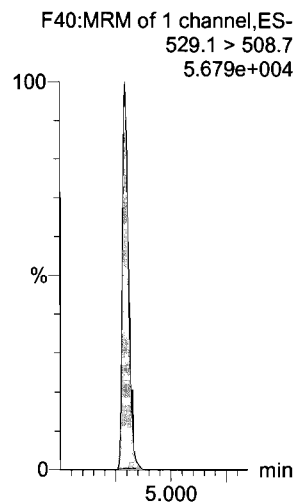
**13C2-PFDA**



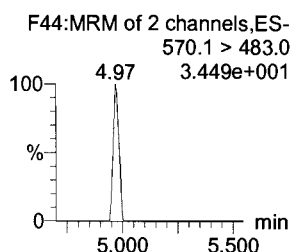
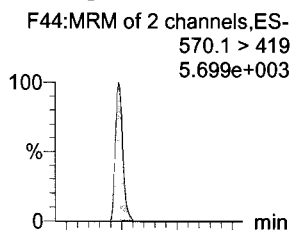
**8:2 FTS**



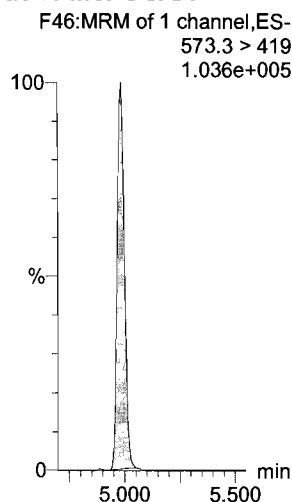
**13C2-8:2 FTS**



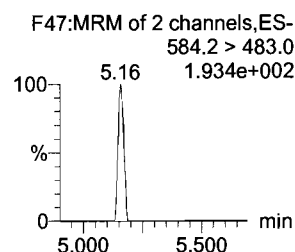
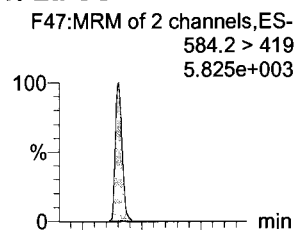
**N-MeFOSAA**



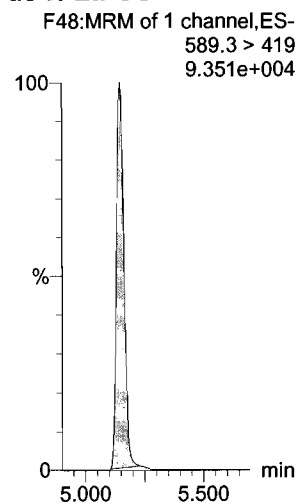
**d3-N-MeFOSAA**



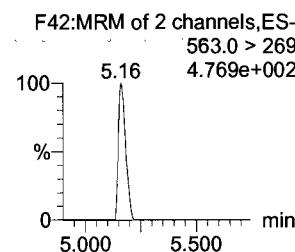
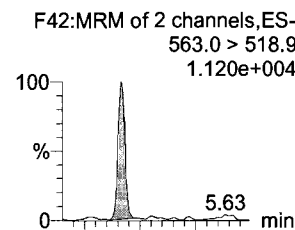
**N-EtFOSAA**



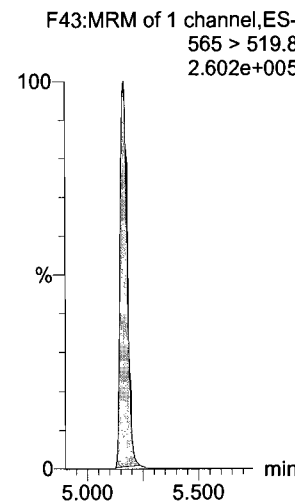
**d5-N-EtFOSAA**



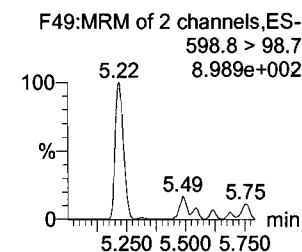
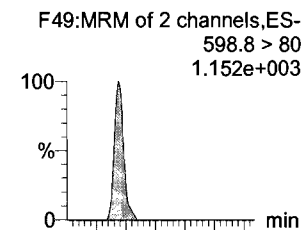
**PFUdA**



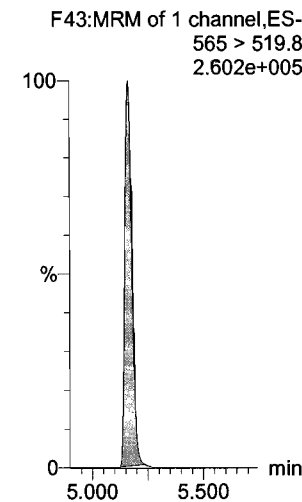
**13C2-PFUdA**



**PFDS**



**13C2-PFUdA**

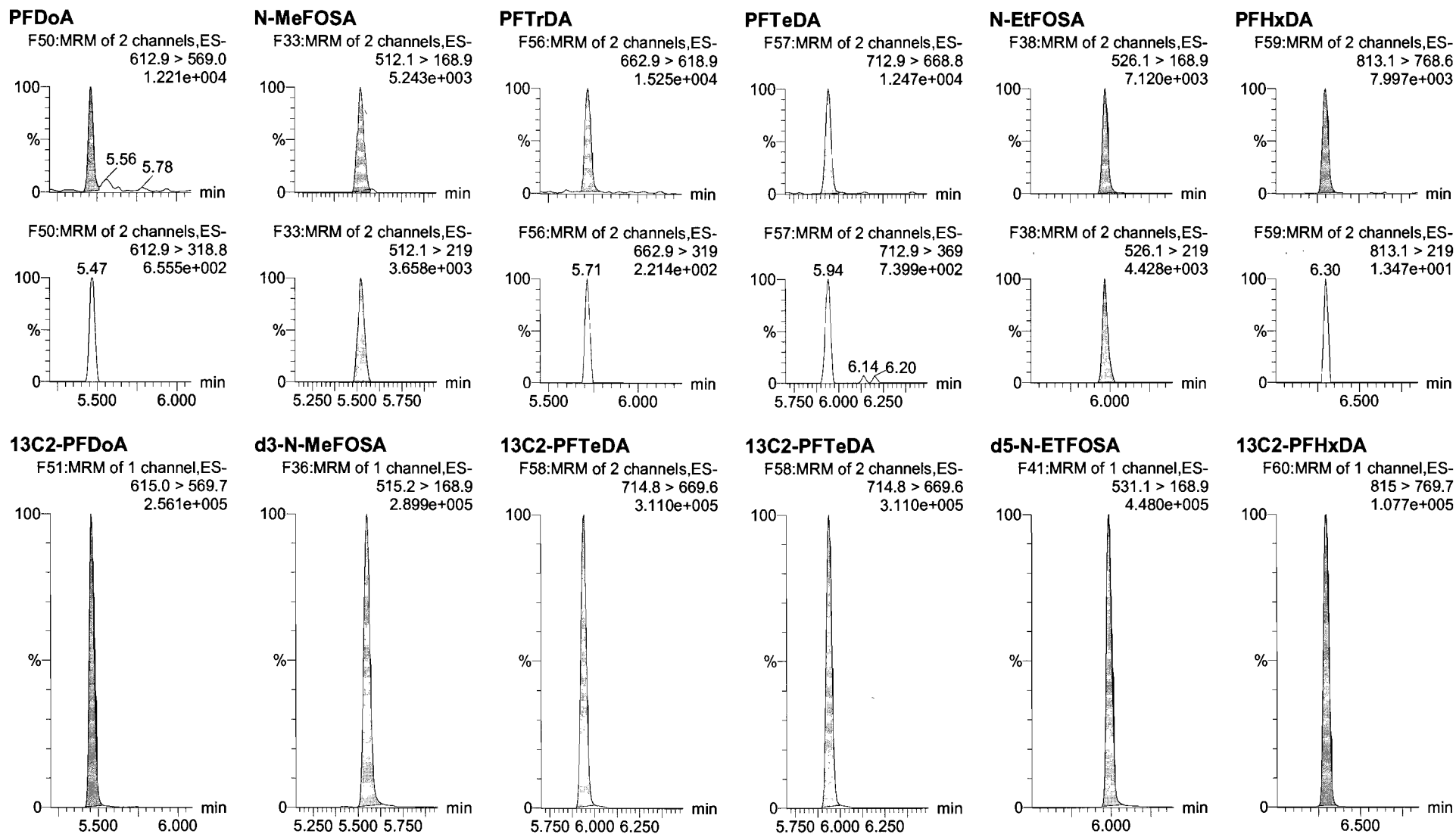


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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_3, Date: 31-Oct-2017, Time: 16:19:21, ID: ST171031M1-2 PFC CS-1 17J2806, Description: PFC CS-1 17J2806

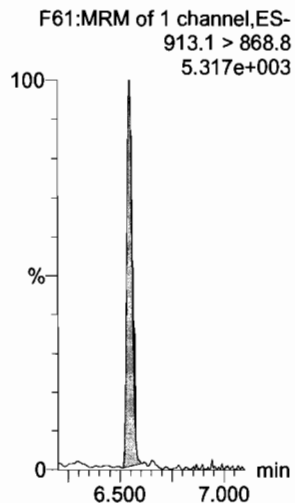


Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

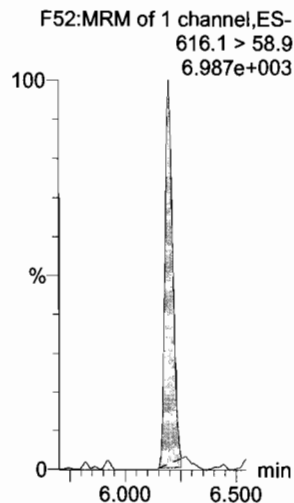
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_3, Date: 31-Oct-2017, Time: 16:19:21, ID: ST171031M1-2 PFC CS-1 17J2806, Description: PFC CS-1 17J2806

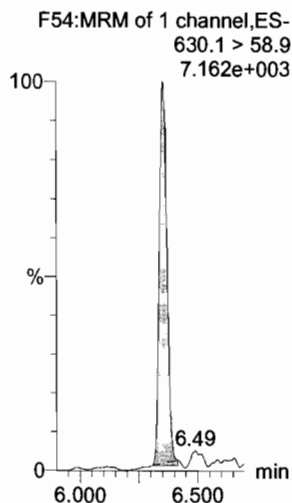
**PFODA**



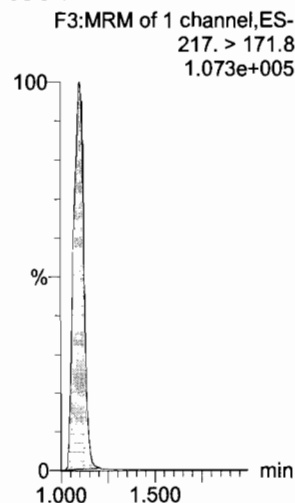
**N-MeFOSE**



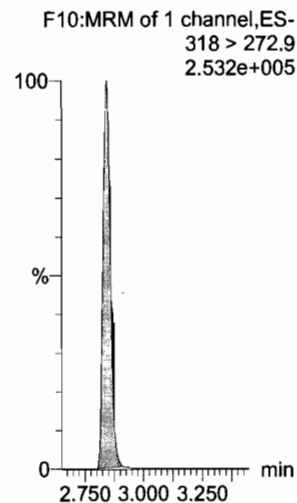
**N-EtFOSE**



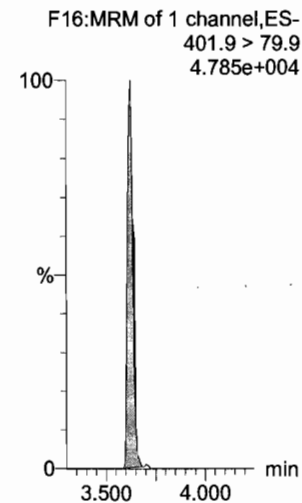
**13C4-PFBA**



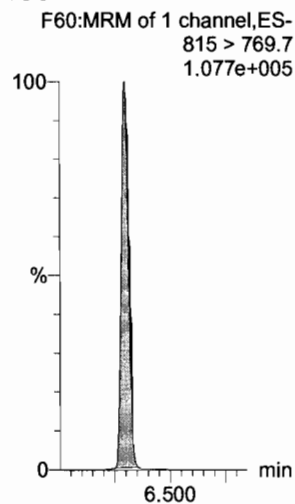
**13C5-PFHxA**



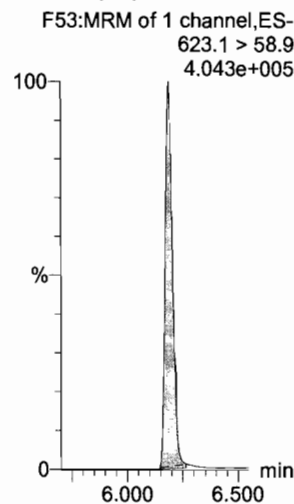
**13C3-PFHxS**



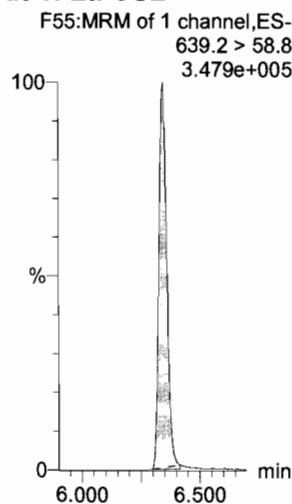
**13C2-PFHxDA**



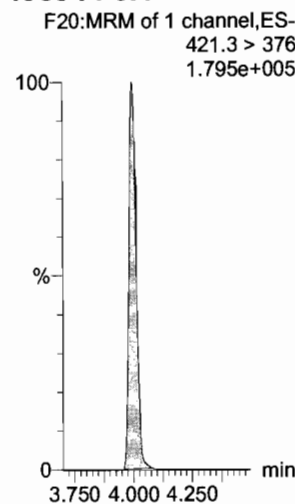
**d7-N-MeFOSE**



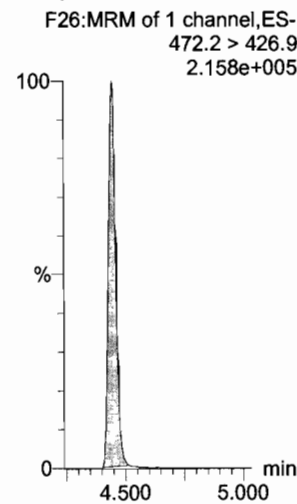
**d9-N-EtFOSE**



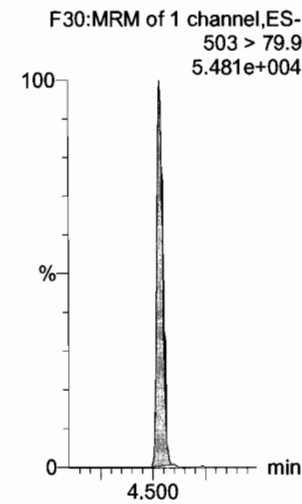
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



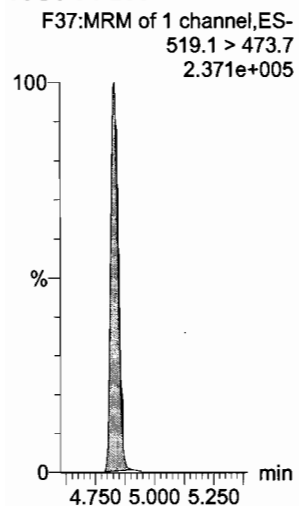
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_3, Date: 31-Oct-2017, Time: 16:19:21, ID: ST171031M1-2 PFC CS-1 17J2806, Description: PFC CS-1 17J2806

13C6-PFDA

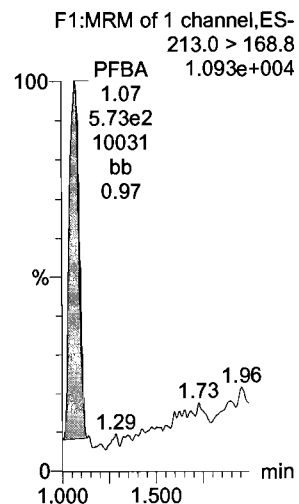


Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

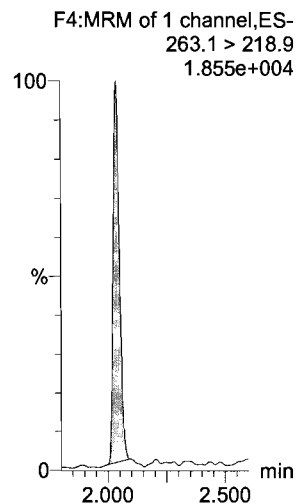
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_4, Date: 31-Oct-2017, Time: 16:30:31, ID: ST171031M1-3 PFC CS0 17J2807, Description: PFC CS0 17J2807

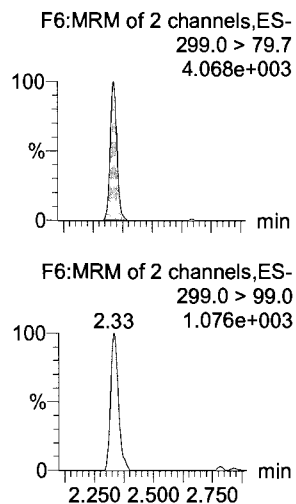
**PFBA**



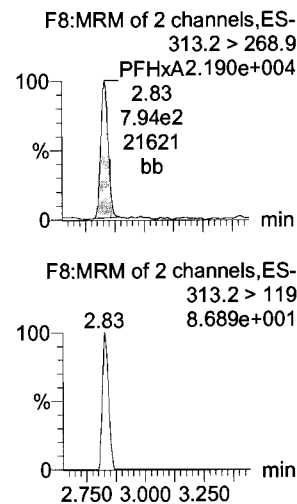
**PFPeA**



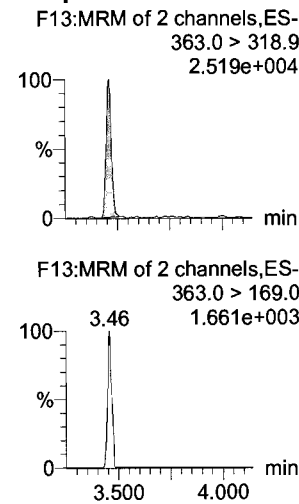
**PFBS**



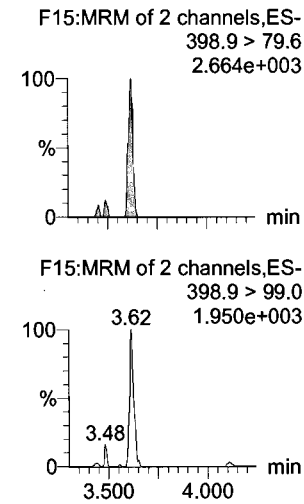
**PFHxA**



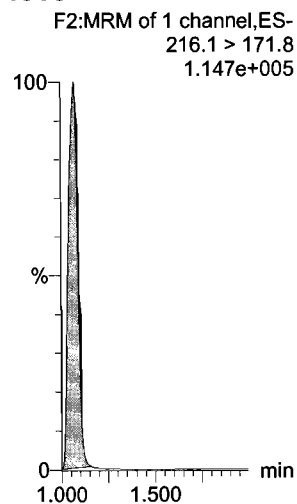
**PFHpA**



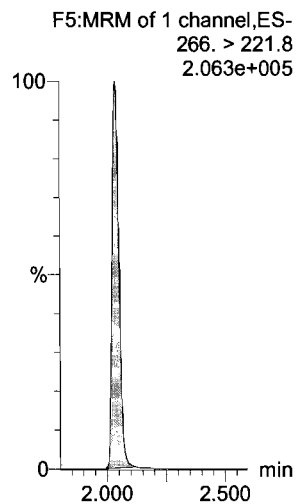
**L-PFHxS**



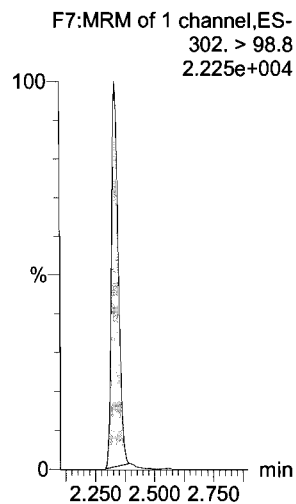
**13C3-PFBA**



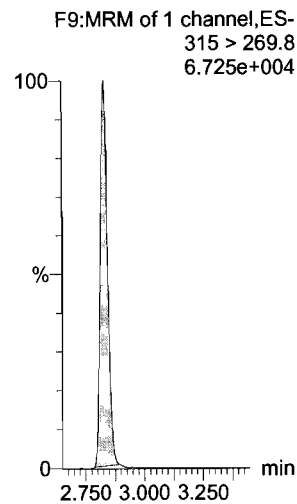
**13C3-PFPeA**



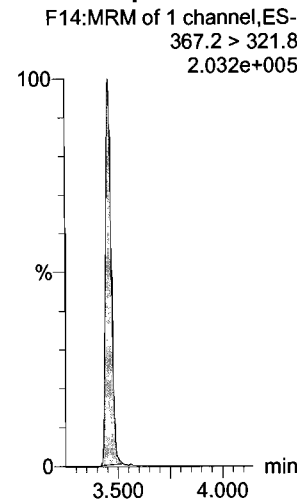
**13C3-PFBS**



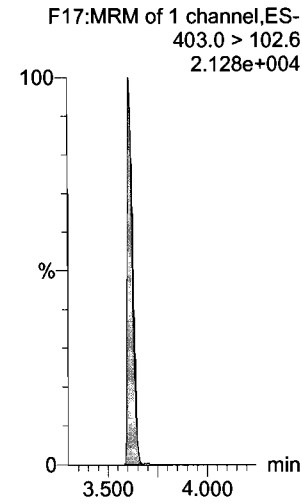
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



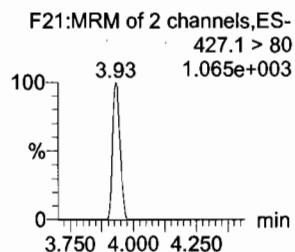
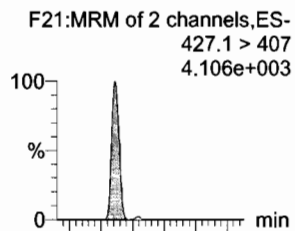


Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

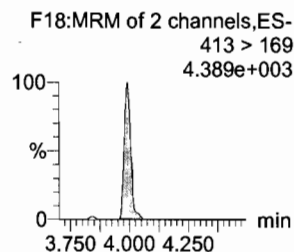
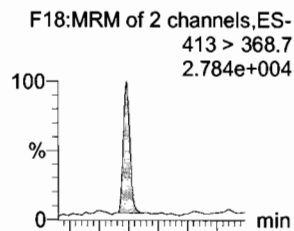
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_4, Date: 31-Oct-2017, Time: 16:30:31, ID: ST171031M1-3 PFC CS0 17J2807, Description: PFC CS0 17J2807

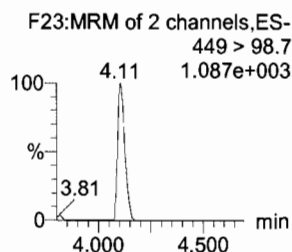
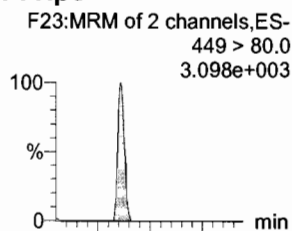
### 6:2 FTS



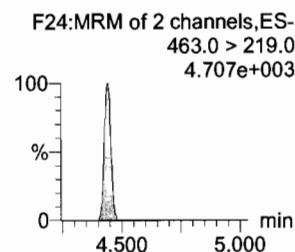
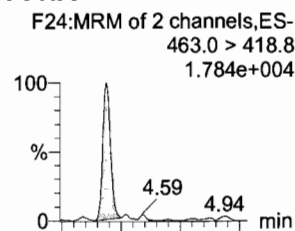
### L-PFOA



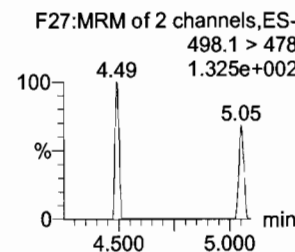
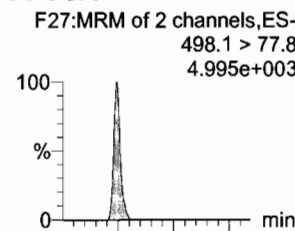
### PFHpS



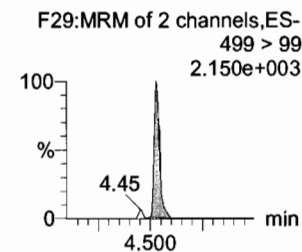
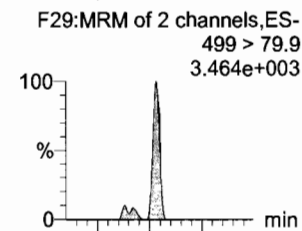
### PFNA



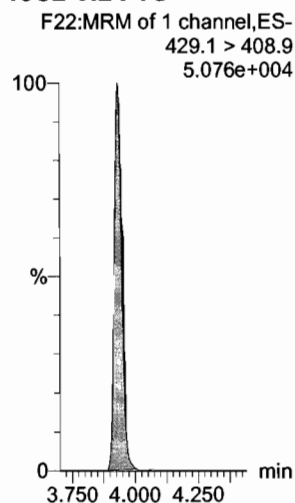
### PFOSA



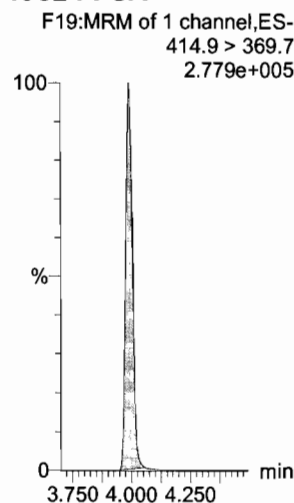
### L-PFOS



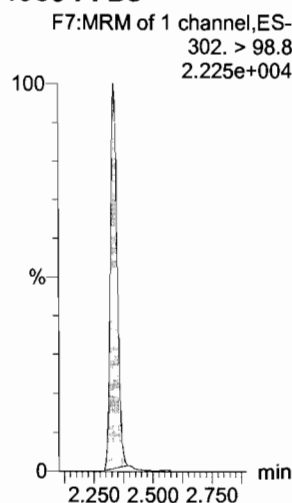
### 13C2-6:2 FTS



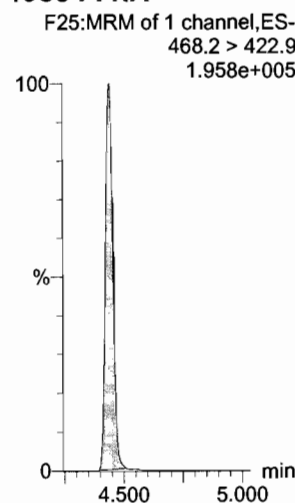
### 13C2-PFOA



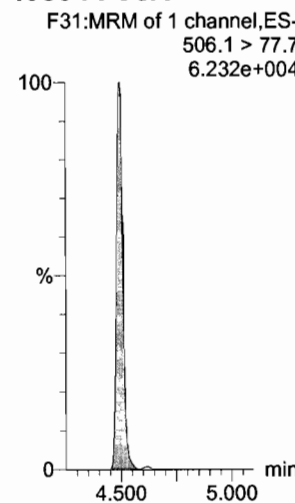
### 13C3-PFBS



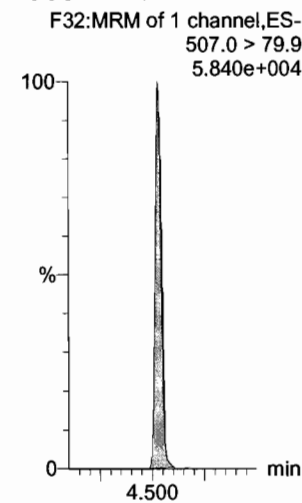
### 13C5-PFNA



### 13C8-PFOA



### 13C8-PFOS



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

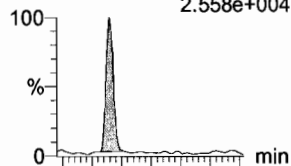
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

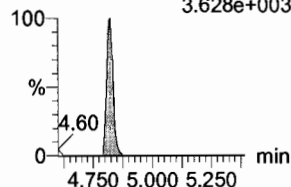
Name: 171031M1\_4, Date: 31-Oct-2017, Time: 16:30:31, ID: ST171031M1-3 PFC CS0 17J2807, Description: PFC CS0 17J2807

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
2.558e+004

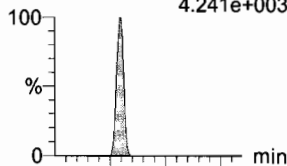


F34:MRM of 2 channels,ES-  
513 > 219  
3.628e+003

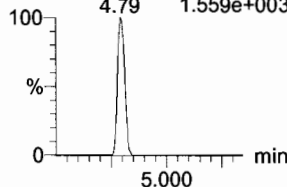


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
4.241e+003

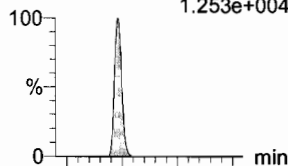


F39:MRM of 2 channels,ES-  
527 > 80  
1.559e+003

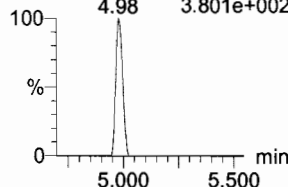


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.253e+004

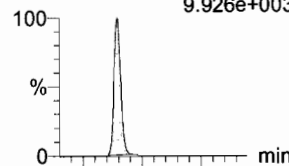


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
3.801e+002

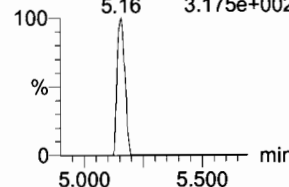


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
9.926e+003

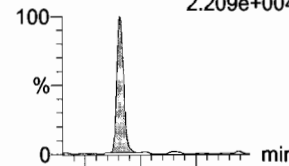


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
3.175e+002

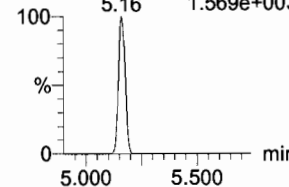


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
2.209e+004

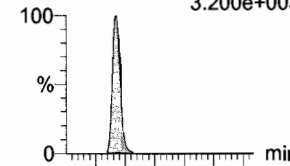


F42:MRM of 2 channels,ES-  
563.0 > 269  
1.569e+003

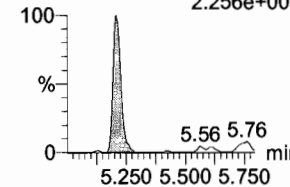


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
3.200e+003

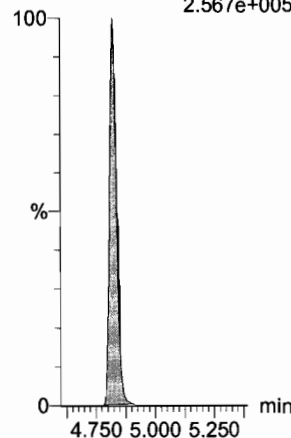


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
2.256e+003



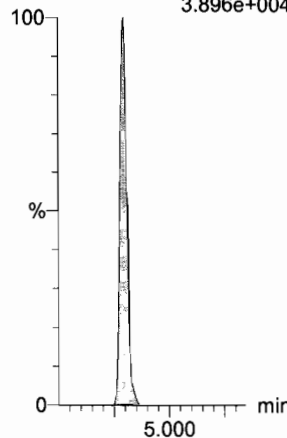
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.567e+005



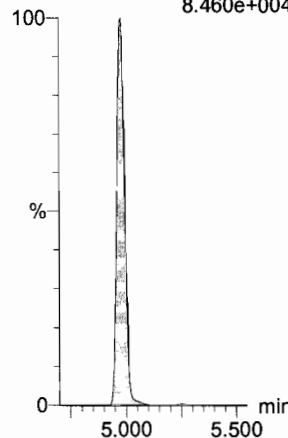
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
3.896e+004



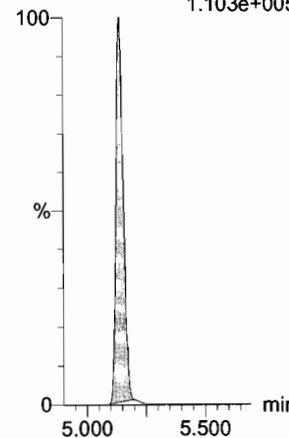
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
8.460e+004



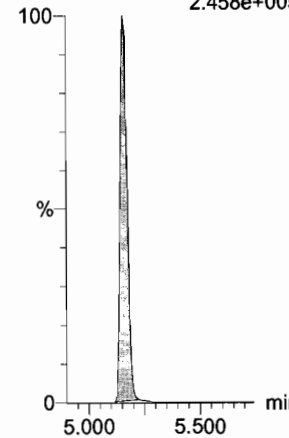
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.103e+005



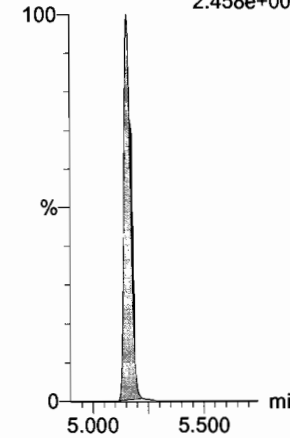
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.458e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.458e+005



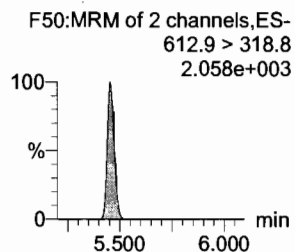
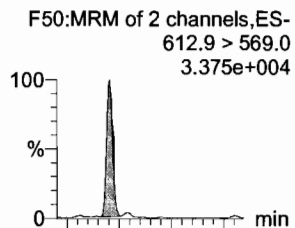
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

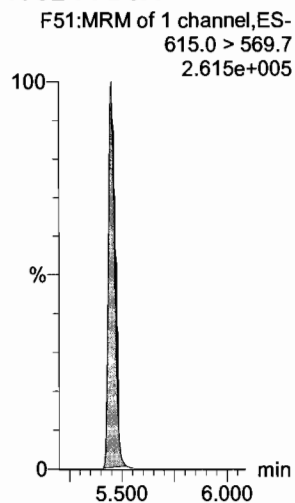
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Name: 171031M1\_4, Date: 31-Oct-2017, Time: 16:30:31, ID: ST171031M1-3 PFC CS0 17J2807, Description: PFC CS0 17J2807

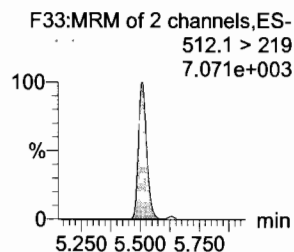
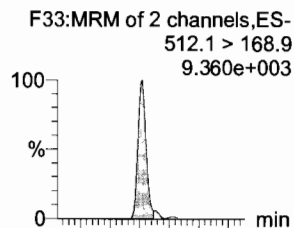
**PFDaA**



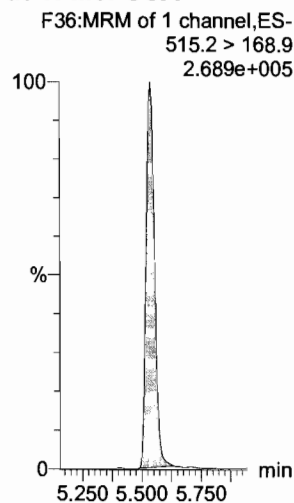
**13C2-PFDaA**



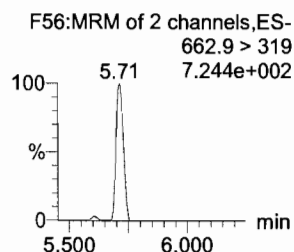
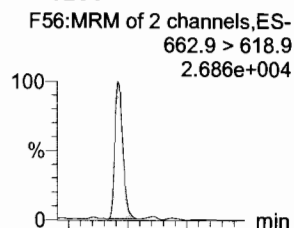
**N-MeFOSA**



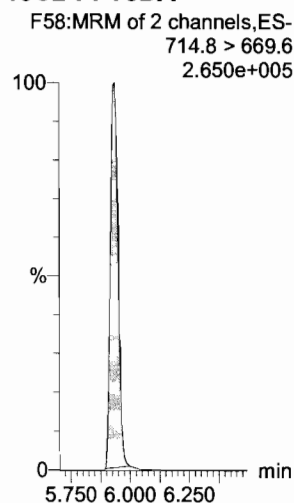
**d3-N-MeFOSA**



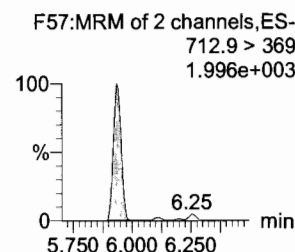
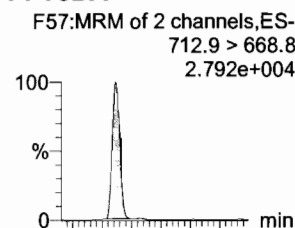
**PFTrDA**



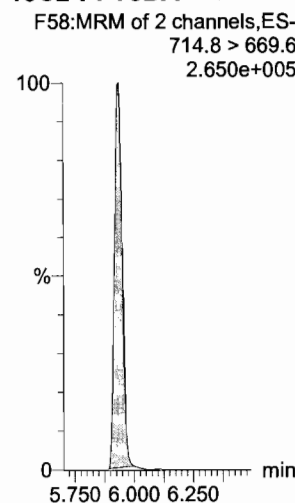
**13C2-PFTeDA**



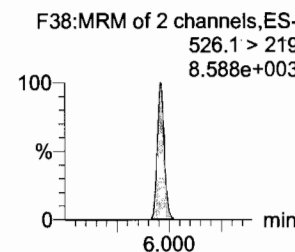
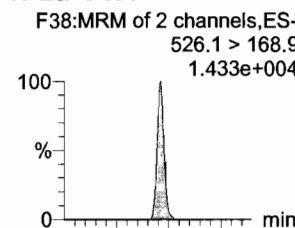
**PFTeDA**



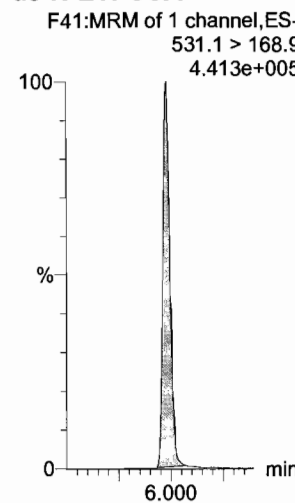
**13C2-PFTeDA**



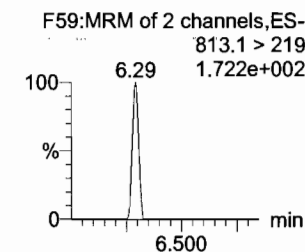
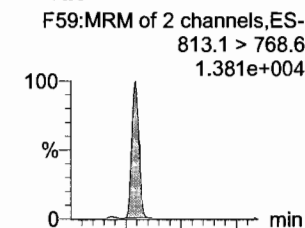
**N-EtFOSA**



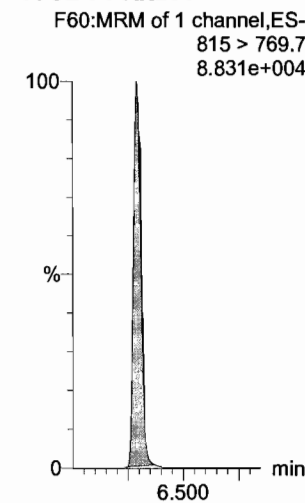
**d5-N-ETFOSA**



**PFHxDA**



**13C2-PFHxDA**



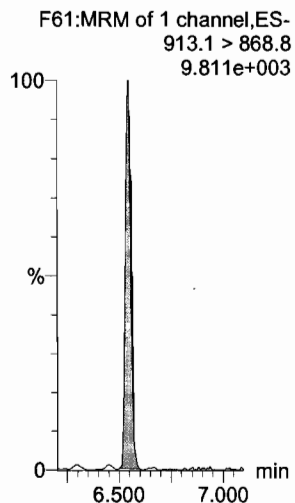
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

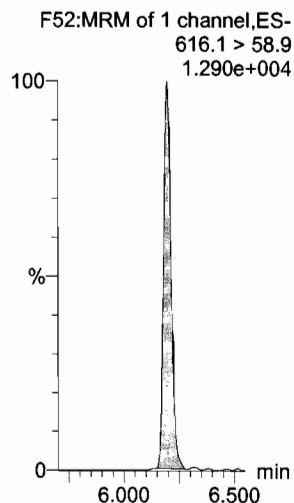
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_4, Date: 31-Oct-2017, Time: 16:30:31, ID: ST171031M1-3 PFC CS0 17J2807, Description: PFC CS0 17J2807

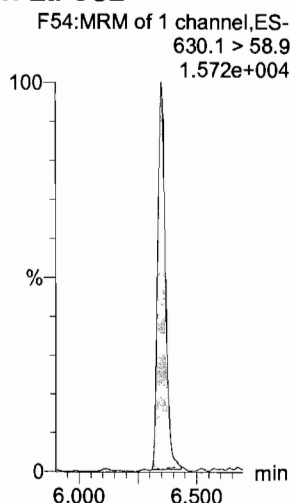
**PFODA**



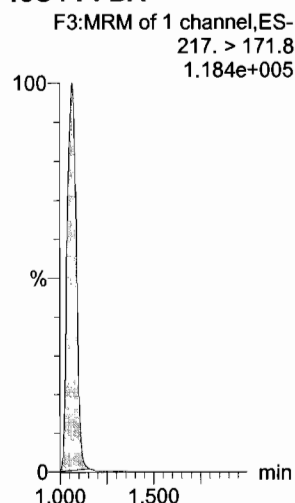
**N-MeFOSE**



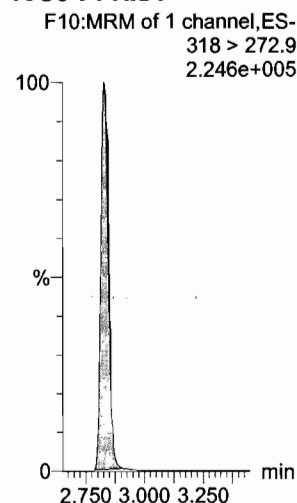
**N-EtFOSE**



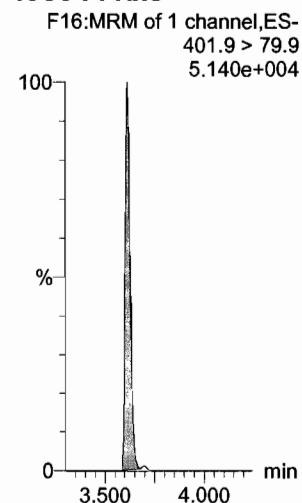
**13C4-PFBA**



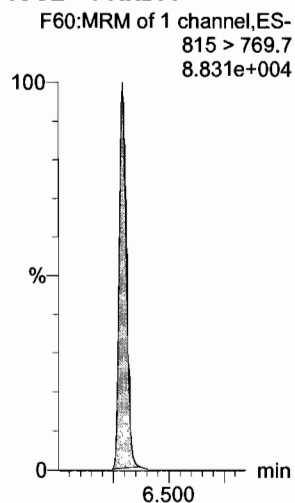
**13C5-PFHxA**



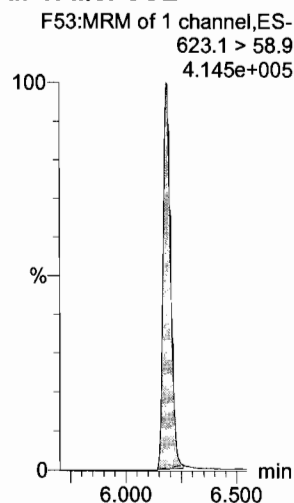
**13C3-PFHxS**



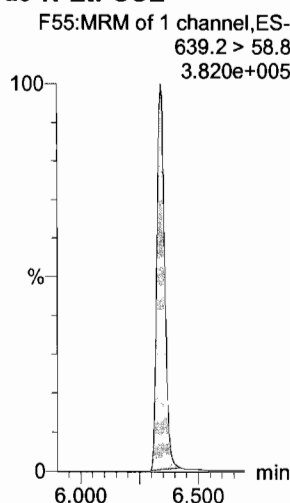
**13C2-PFHxD**



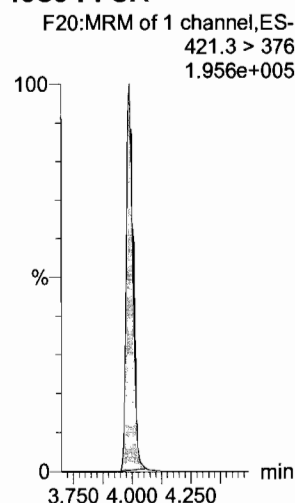
**d7-N-MeFOSE**



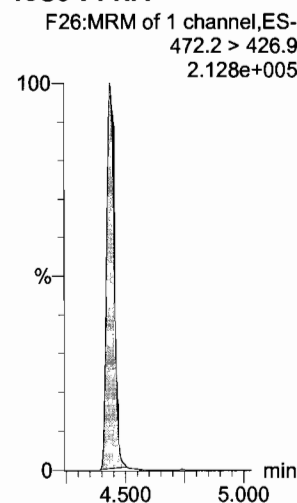
**d9-N-EtFOSE**



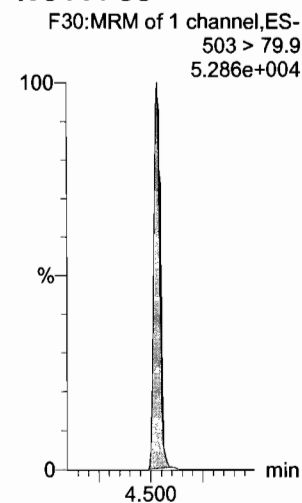
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



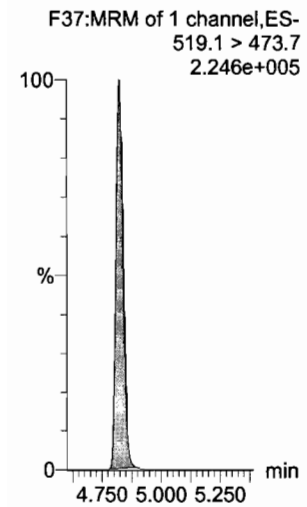
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_4, Date: 31-Oct-2017, Time: 16:30:31, ID: ST171031M1-3 PFC CS0 17J2807, Description: PFC CS0 17J2807

**13C6-PFDA**

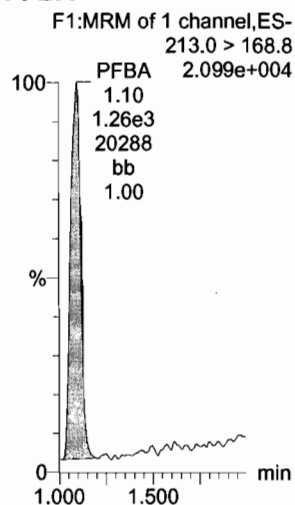


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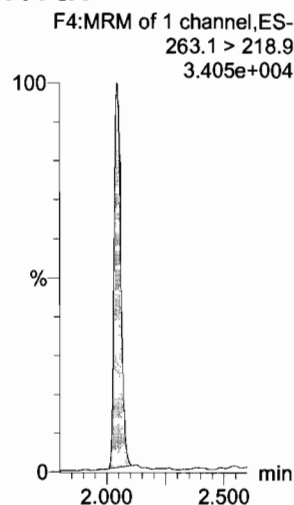
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_5, Date: 31-Oct-2017, Time: 16:41:42, ID: ST171031M1-4 PFC CS1 17J2808, Description: PFC CS1 17J2808

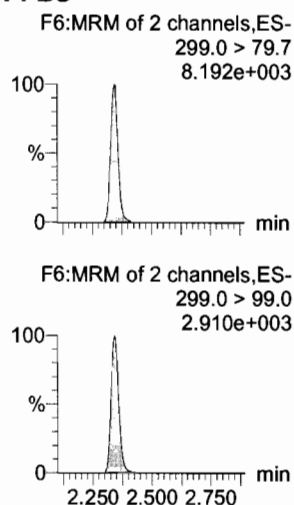
### PFBA



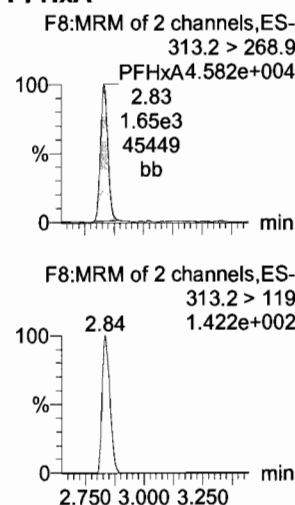
### PFPeA



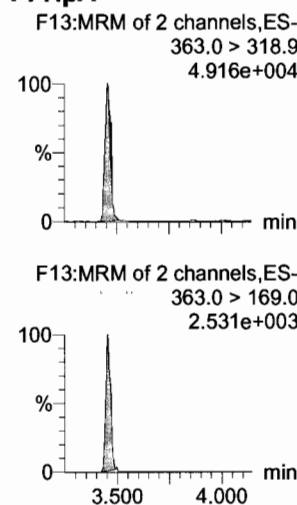
### PFBS



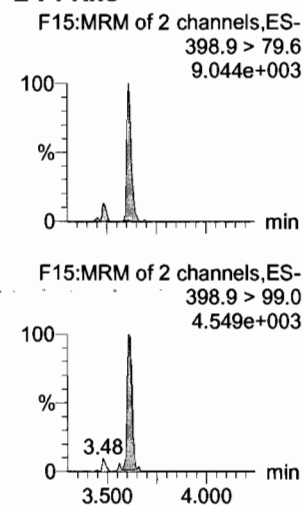
### PFHxA



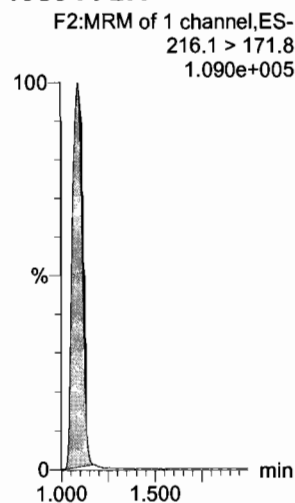
### PFHpA



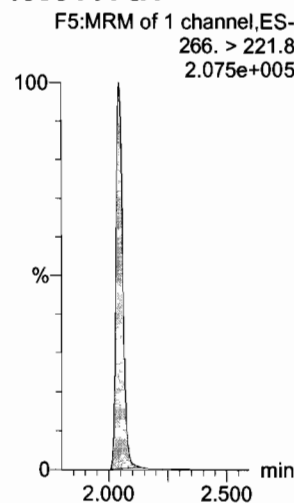
### L-PFHxS



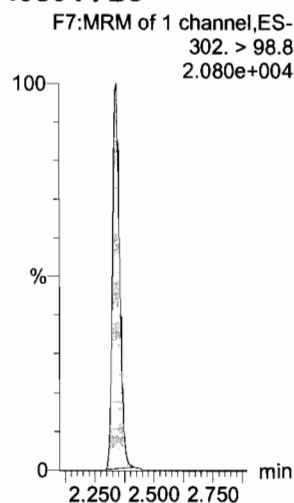
### 13C3-PFBA



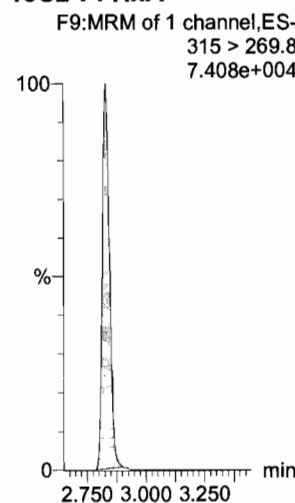
### 13C3-PFPeA



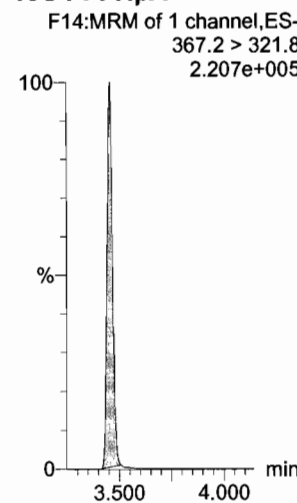
### 13C3-PFBS



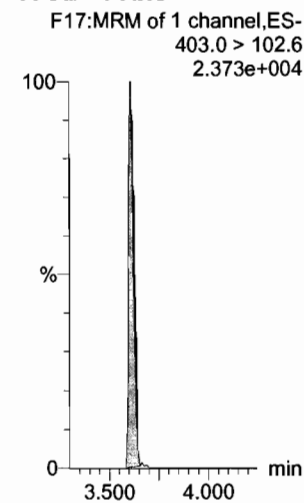
### 13C2-PFHxA



### 13C4-PFHpA



### 18O2-PFHxS

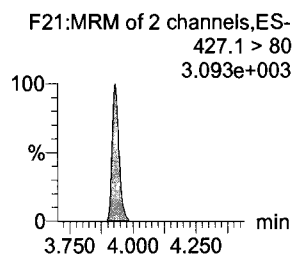
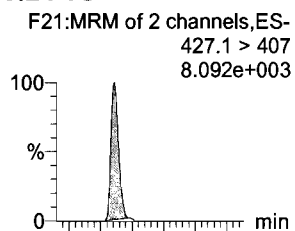


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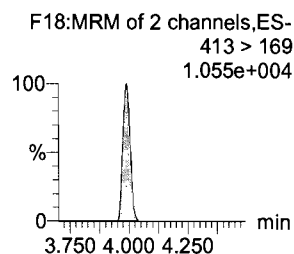
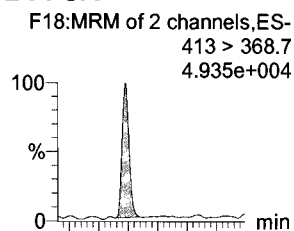
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_5, Date: 31-Oct-2017, Time: 16:41:42, ID: ST171031M1-4 PFC CS1 17J2808, Description: PFC CS1 17J2808

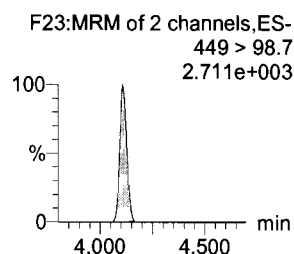
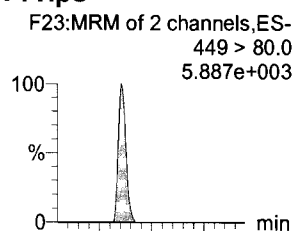
### 6:2 FTS



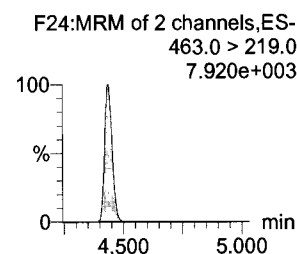
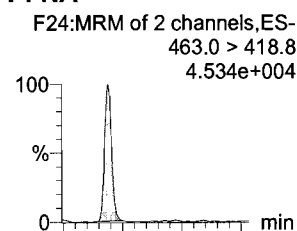
### L-PFOA



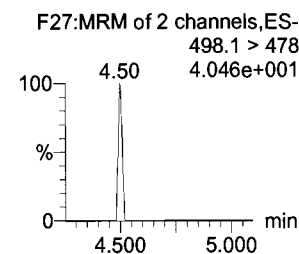
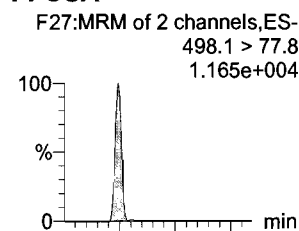
### PFHpS



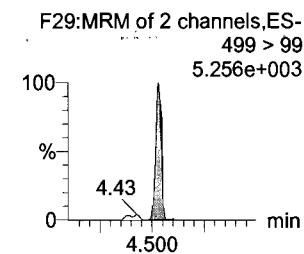
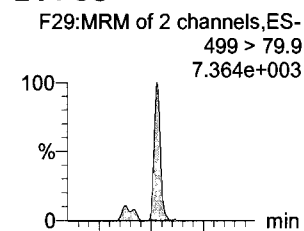
### PFNA



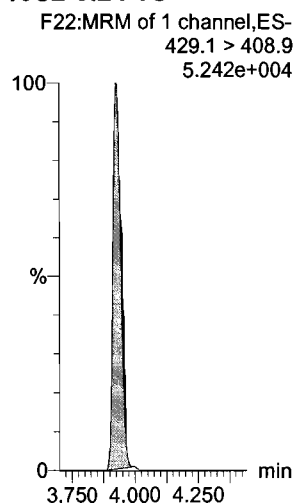
### PFOSA



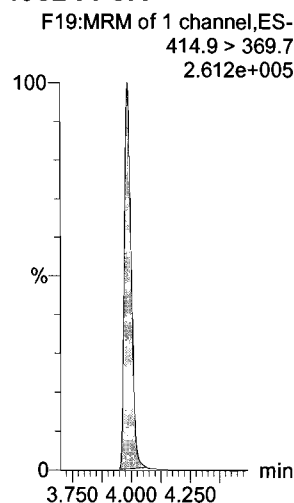
### L-PFOS



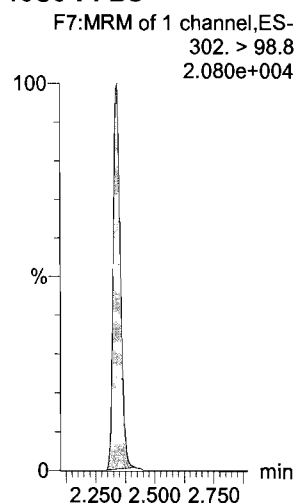
### 13C2-6:2 FTS



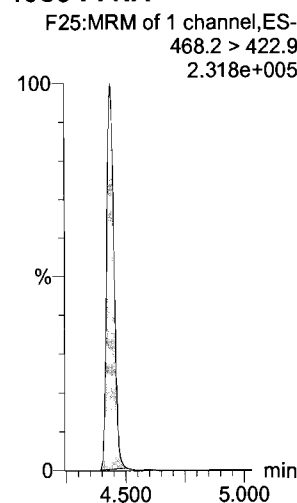
### 13C2-PFOA



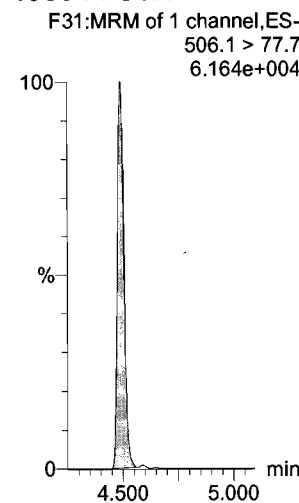
### 13C3-PFBS



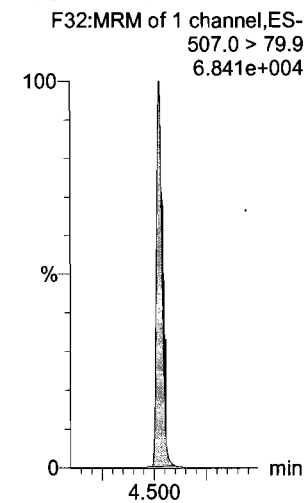
### 13C5-PFNA



### 13C8-PFOA



### 13C8-PFOS



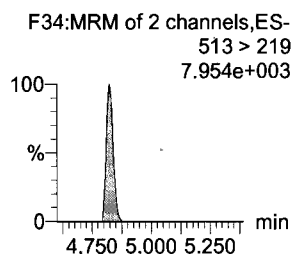
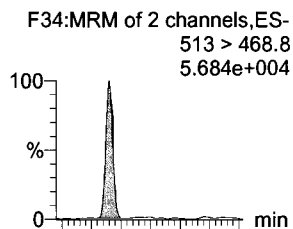
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

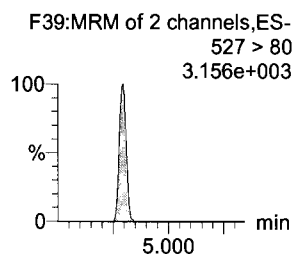
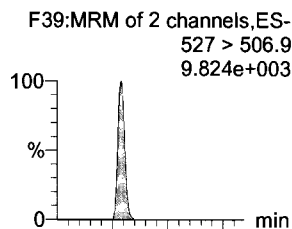
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Name: 171031M1\_5, Date: 31-Oct-2017, Time: 16:41:42, ID: ST171031M1-4 PFC CS1 17J2808, Description: PFC CS1 17J2808

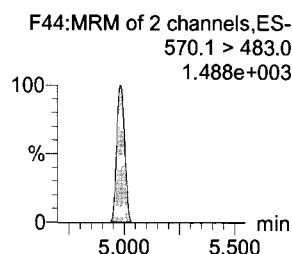
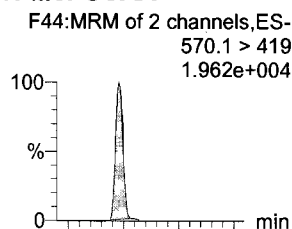
**PFDA**



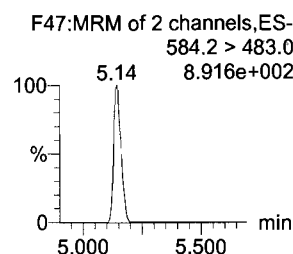
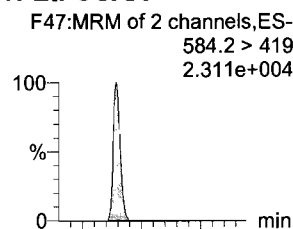
**8:2 FTS**



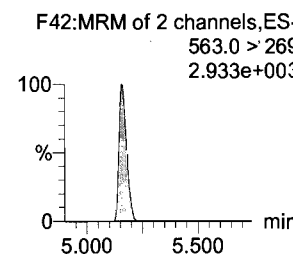
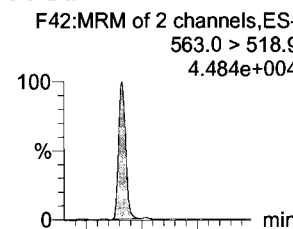
**N-MeFOSAA**



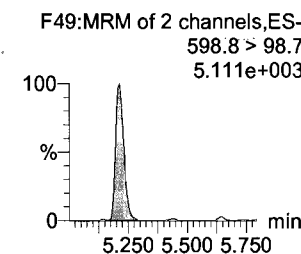
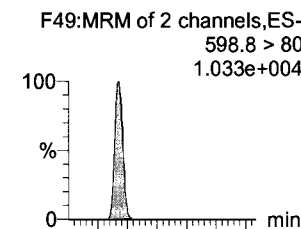
**N-EtFOSAA**



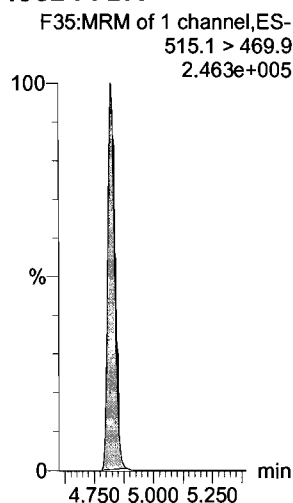
**PFUdA**



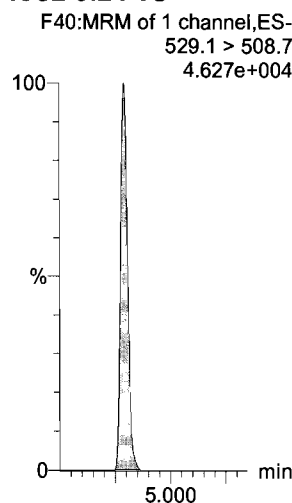
**PFDS**



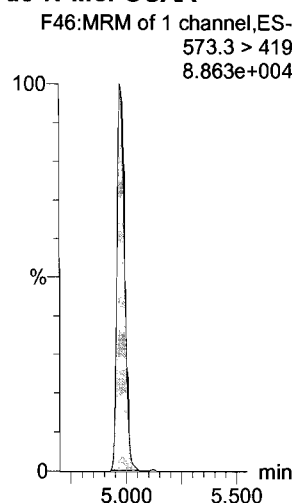
**13C2-PFDA**



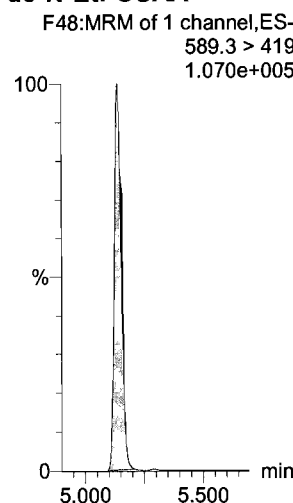
**13C2-8:2 FTS**



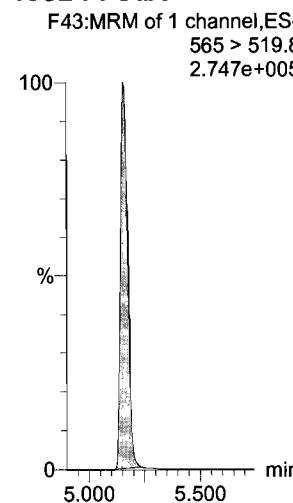
**d3-N-MeFOSAA**



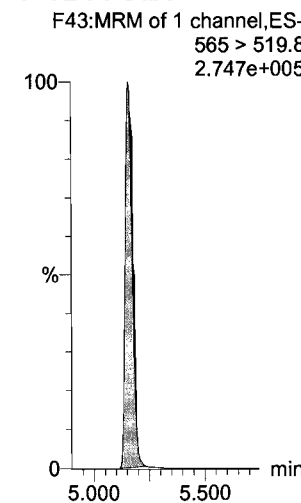
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**

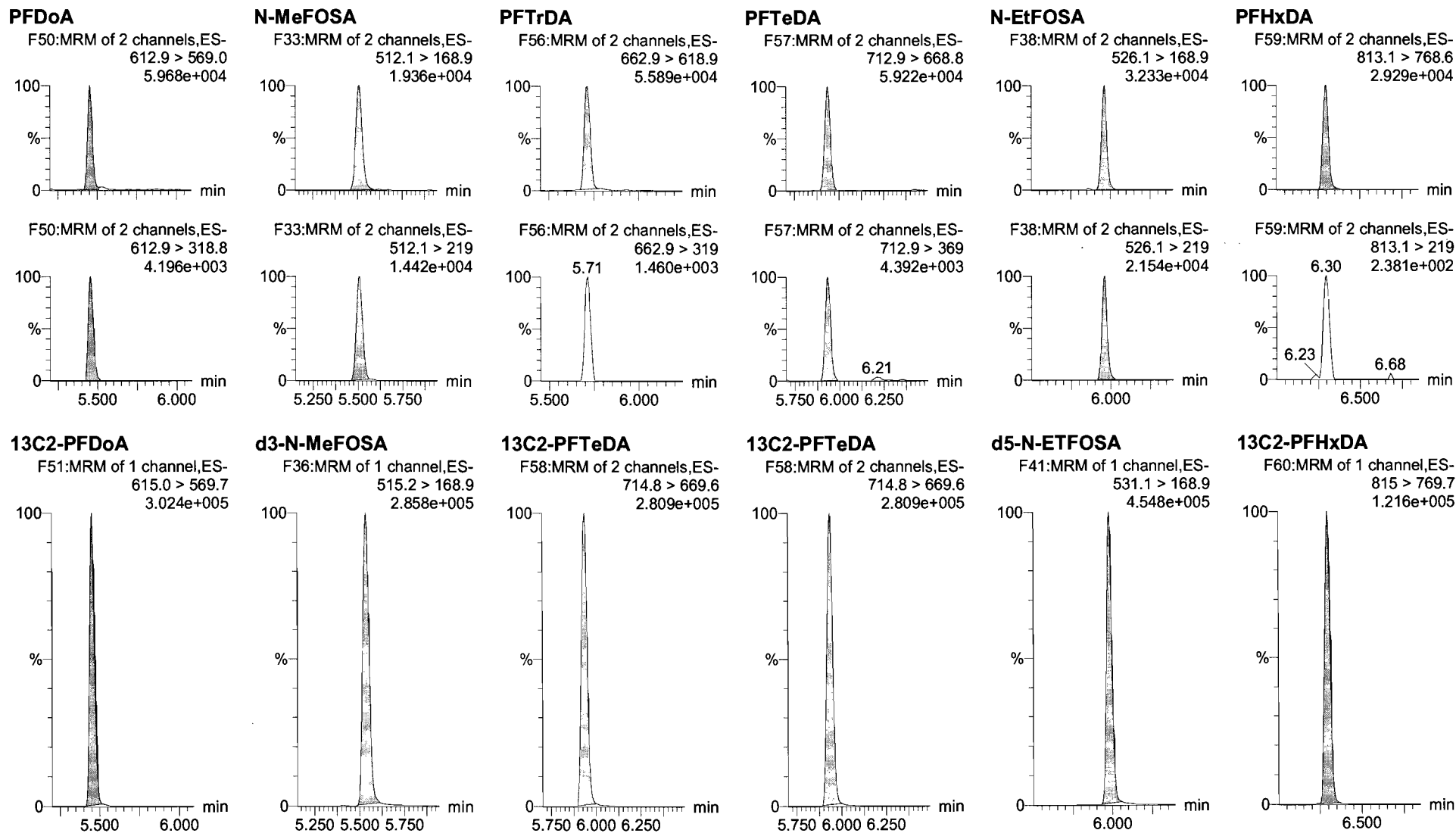




Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_5, Date: 31-Oct-2017, Time: 16:41:42, ID: ST171031M1-4 PFC CS1 17J2808, Description: PFC CS1 17J2808



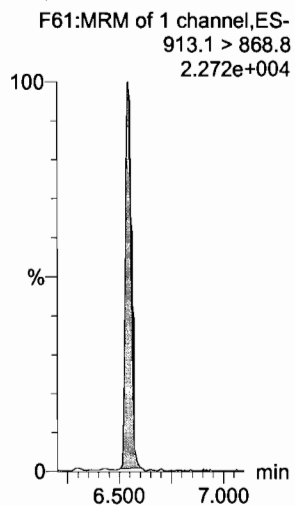
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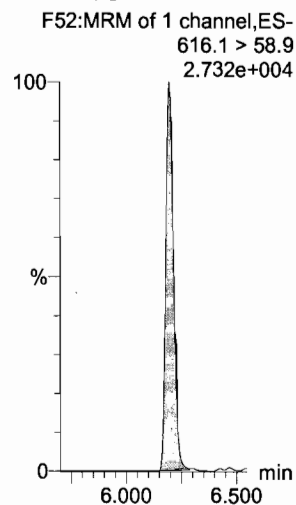
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_5, Date: 31-Oct-2017, Time: 16:41:42, ID: ST171031M1-4 PFC CS1 17J2808, Description: PFC CS1 17J2808

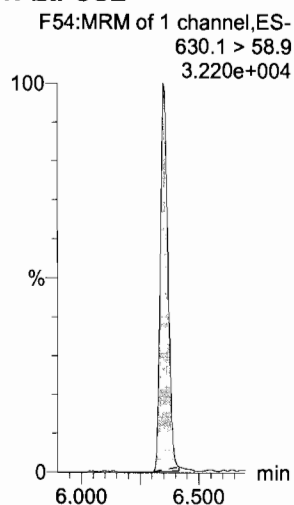
**PFODA**



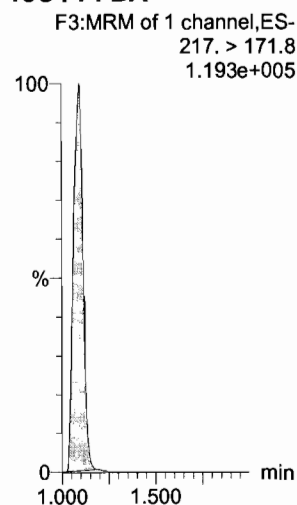
**N-MeFOSE**



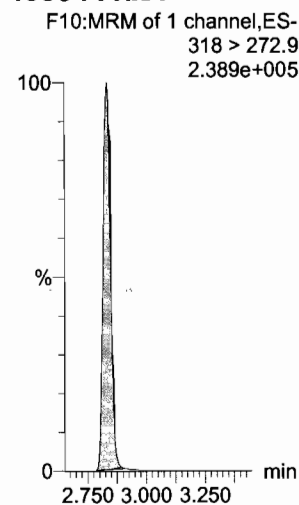
**N-EtFOSE**



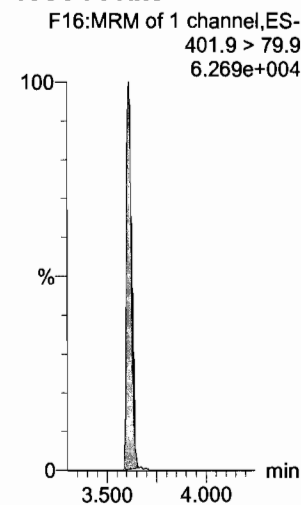
**13C4-PFBA**



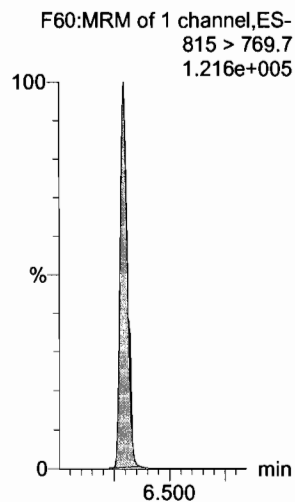
**13C5-PFHxA**



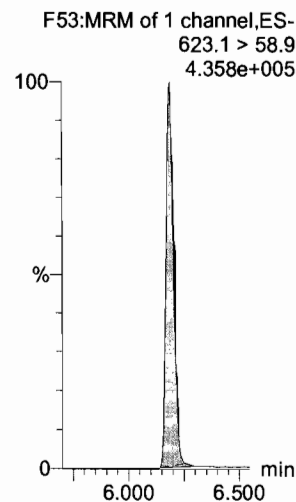
**13C3-PFHxS**



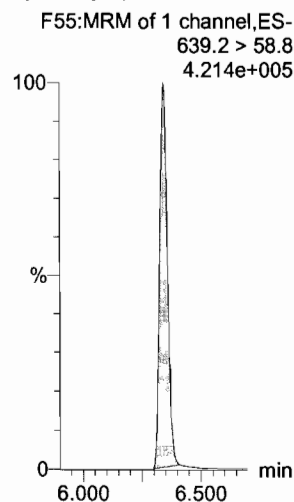
**13C2-PFHxD**



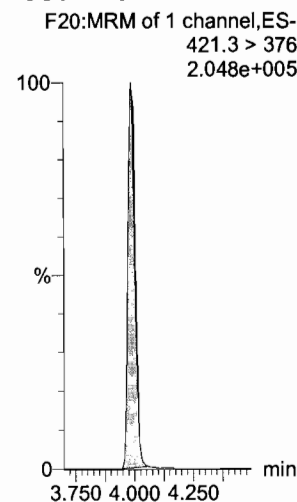
**d7-N-MeFOSE**



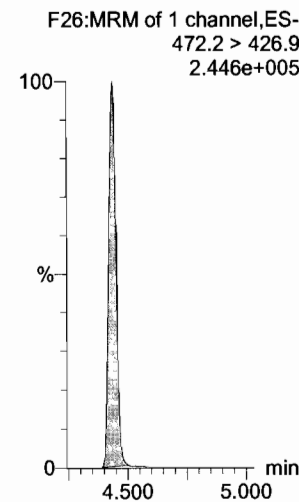
**d9-N-EtFOSE**



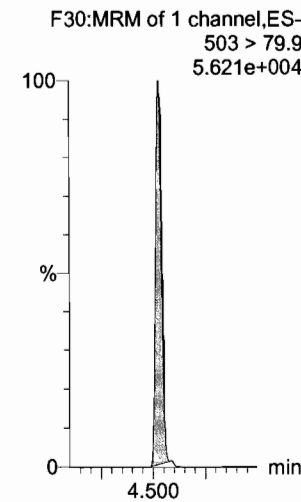
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**

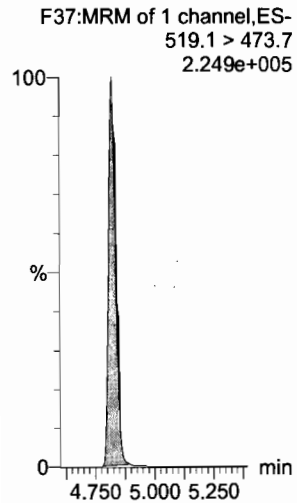


Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_5, Date: 31-Oct-2017, Time: 16:41:42, ID: ST171031M1-4 PFC CS1 17J2808, Description: PFC CS1 17J2808

13C6-PFDA

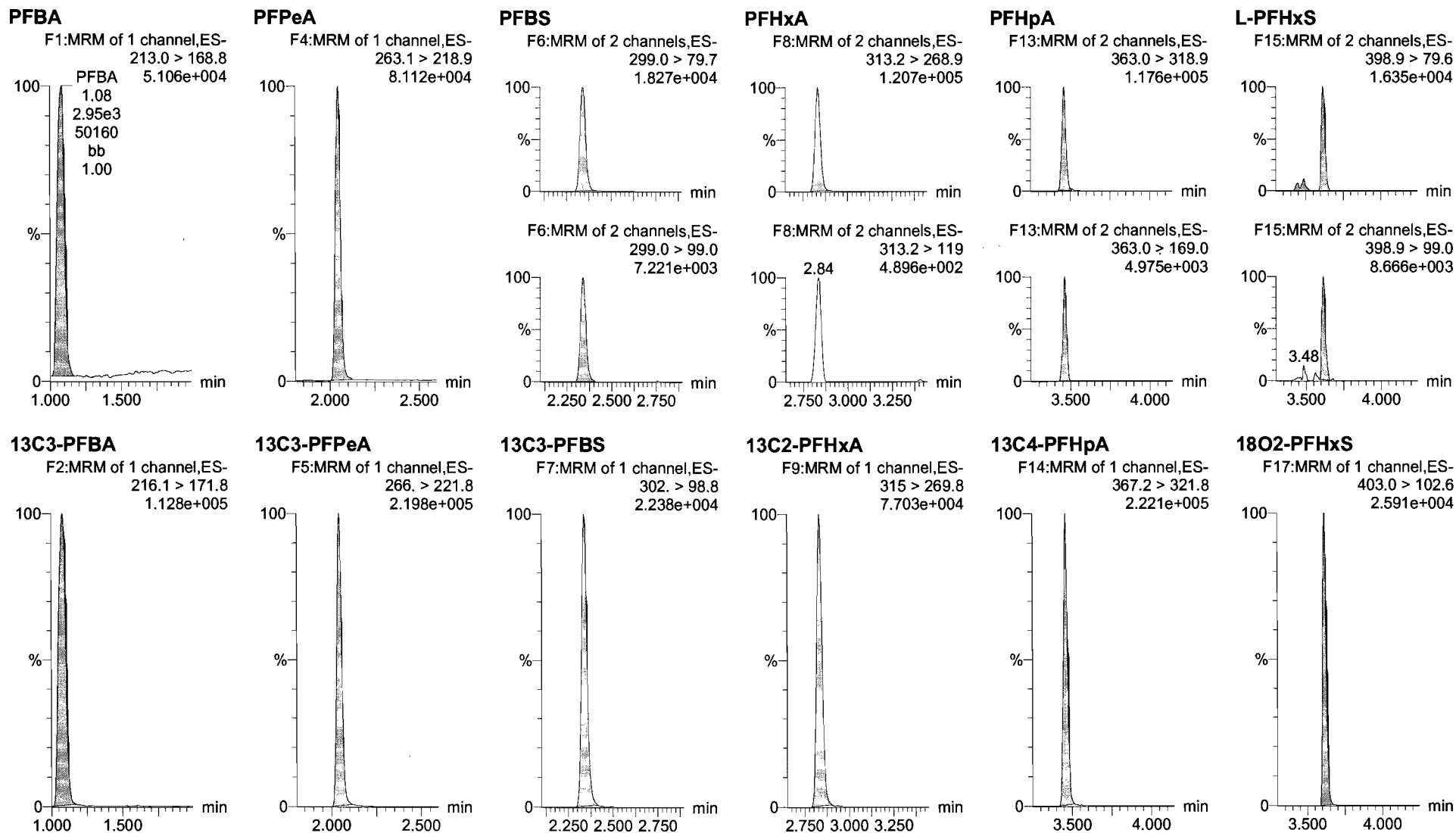


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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_6, Date: 31-Oct-2017, Time: 16:52:53, ID: ST171031M1-5 PFC CS2 17J2809, Description: PFC CS2 17J2809



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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

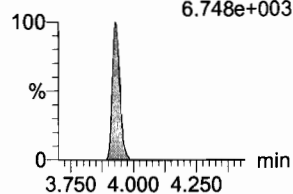
Name: 171031M1\_6, Date: 31-Oct-2017, Time: 16:52:53, ID: ST171031M1-5 PFC CS2 17J2809, Description: PFC CS2 17J2809

### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.638e+004

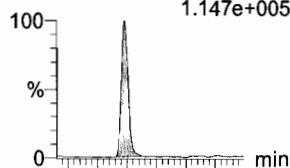


F21:MRM of 2 channels,ES-  
427.1 > 80  
6.748e+003

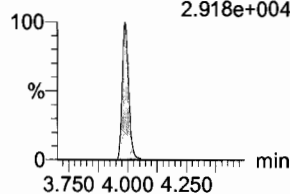


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
1.147e+005

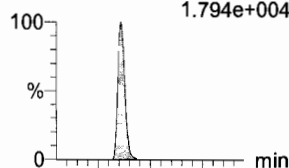


F18:MRM of 2 channels,ES-  
413 > 169  
2.918e+004

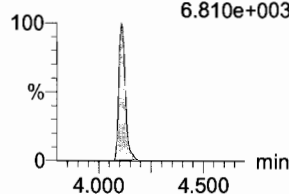


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.794e+004

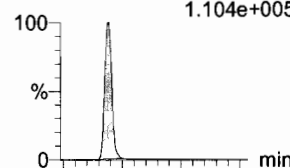


F23:MRM of 2 channels,ES-  
449 > 98.7  
6.810e+003

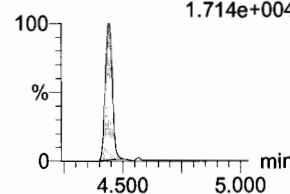


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
1.104e+005

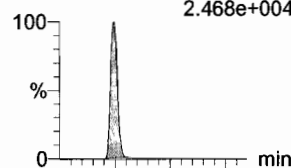


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.714e+004

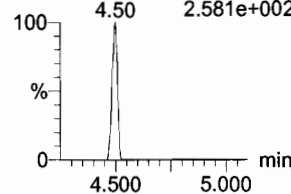


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
2.468e+004

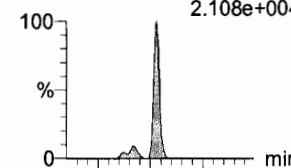


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.581e+002

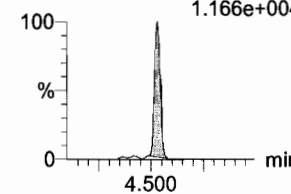


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
2.108e+004

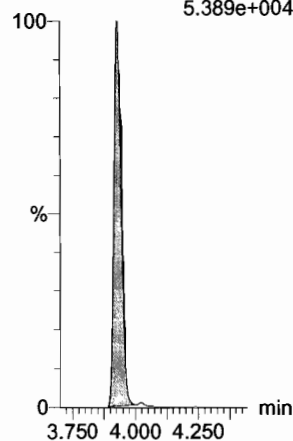


F29:MRM of 2 channels,ES-  
499 > 99  
1.166e+004



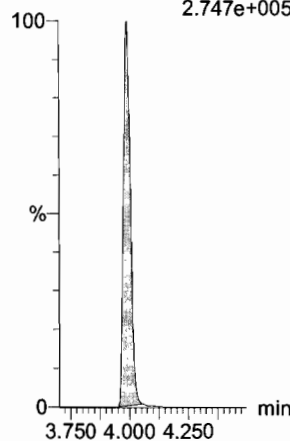
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
5.389e+004



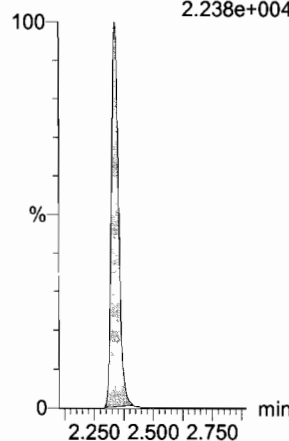
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.747e+005



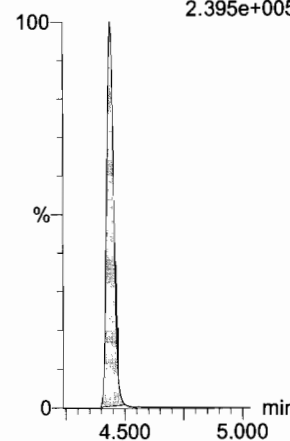
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.238e+004



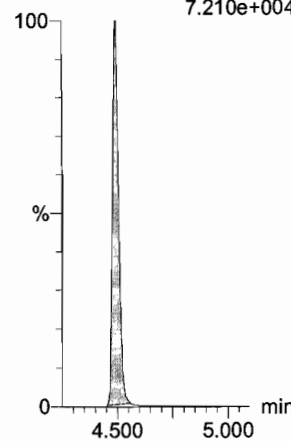
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.395e+005



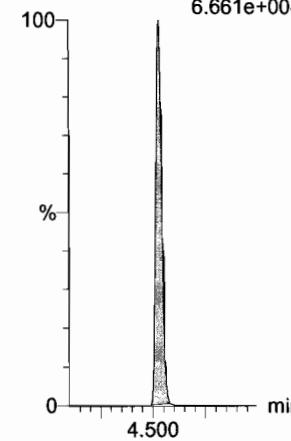
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
7.210e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.661e+004

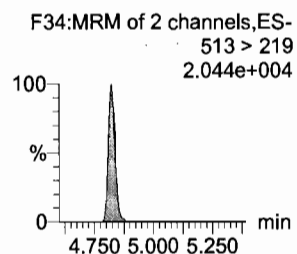
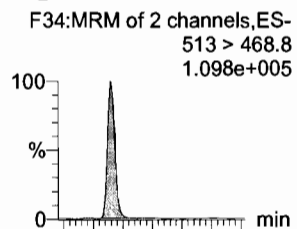


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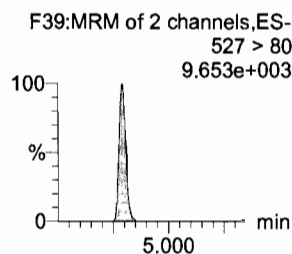
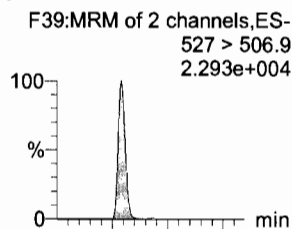
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_6, Date: 31-Oct-2017, Time: 16:52:53, ID: ST171031M1-5 PFC CS2 17J2809, Description: PFC CS2 17J2809

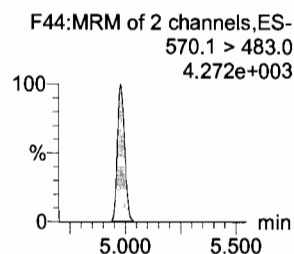
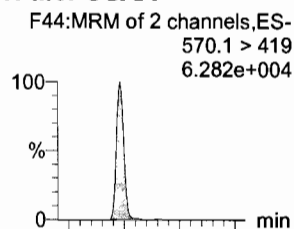
**PFDA**



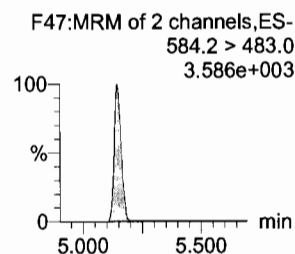
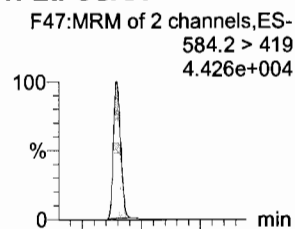
**8:2 FTS**



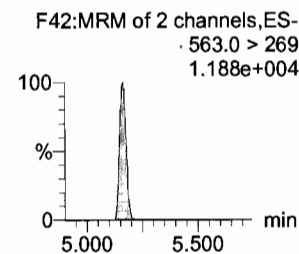
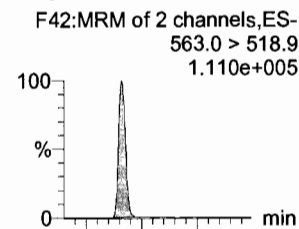
**N-MeFOSAA**



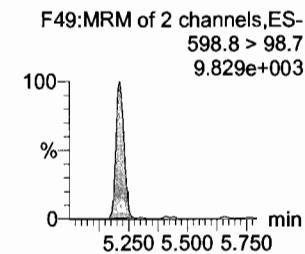
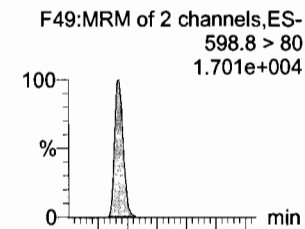
**N-EtFOSAA**



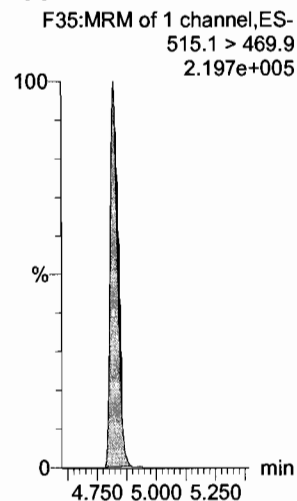
**PFUdA**



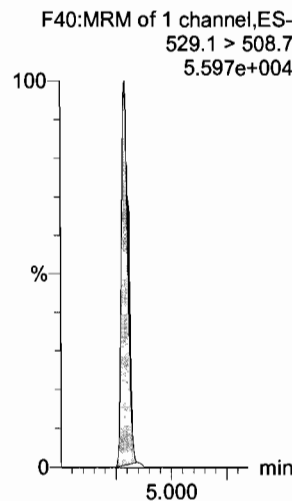
**PFDS**



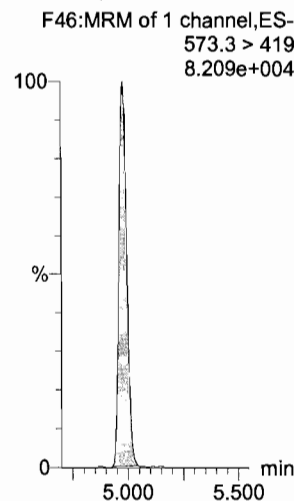
**13C2-PFDA**



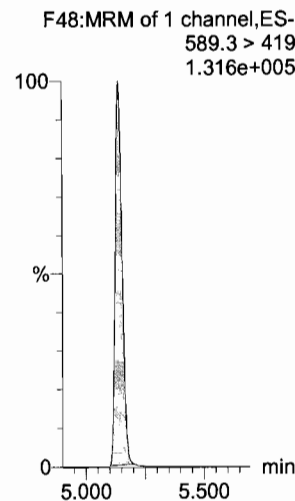
**13C2-8:2 FTS**



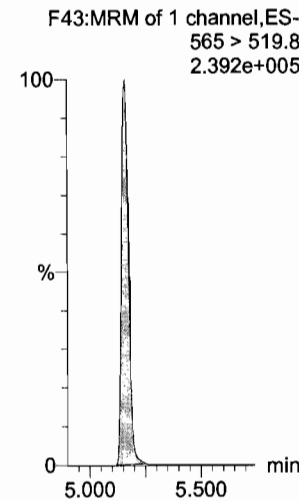
**d3-N-MeFOSAA**



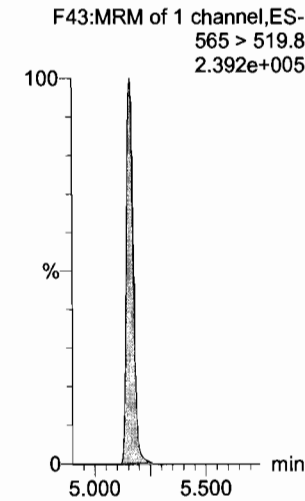
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



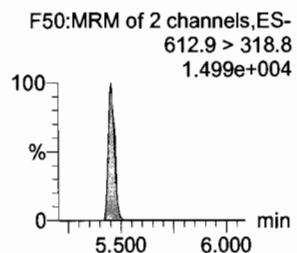
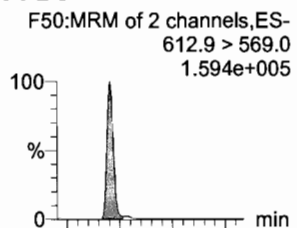
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

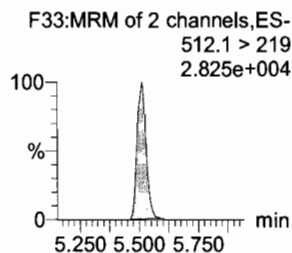
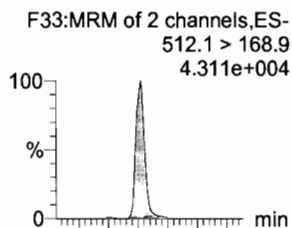
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Name: 171031M1\_6, Date: 31-Oct-2017, Time: 16:52:53, ID: ST171031M1-5 PFC CS2 17J2809, Description: PFC CS2 17J2809

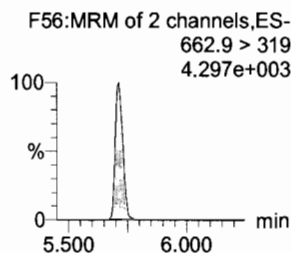
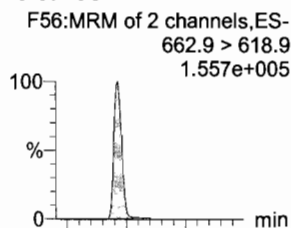
**PFDaA**



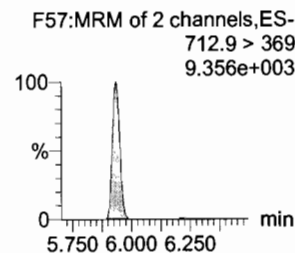
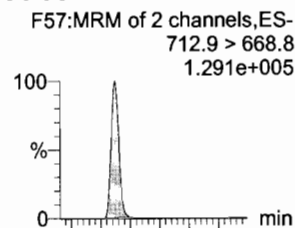
**N-MeFOSA**



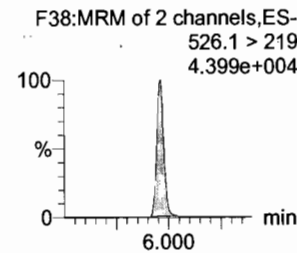
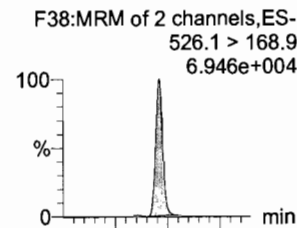
**PFTrDA**



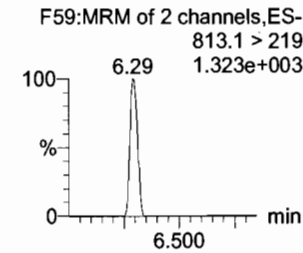
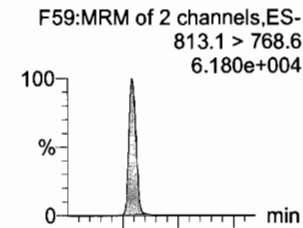
**PFTeDA**



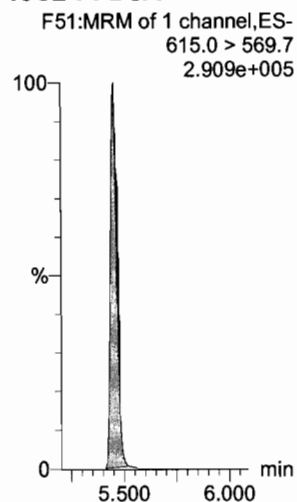
**N-EtFOSA**



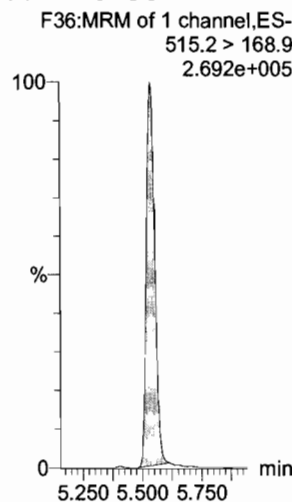
**PFHxDA**



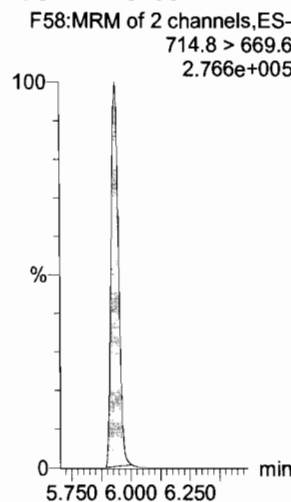
**13C2-PFDaA**



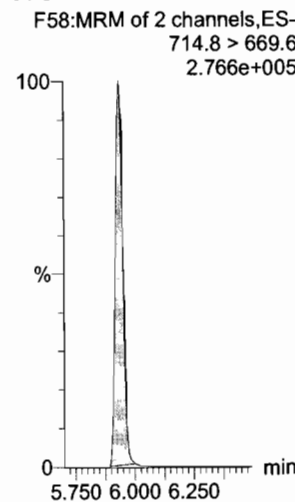
**d3-N-MeFOSA**



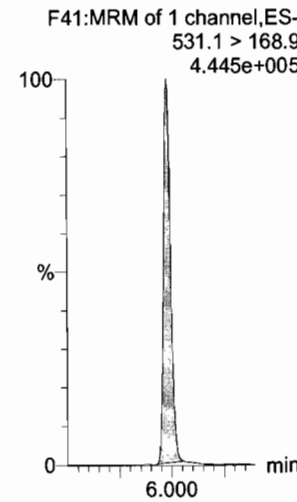
**13C2-PFTeDA**



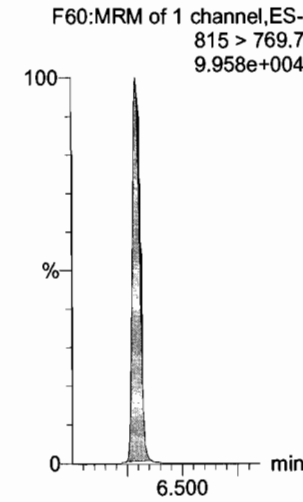
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**

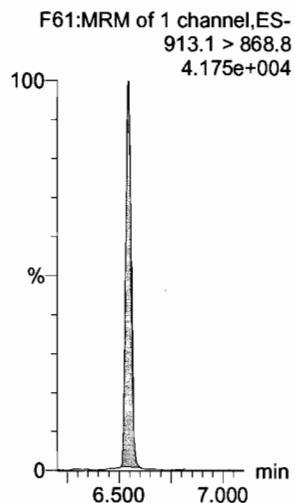


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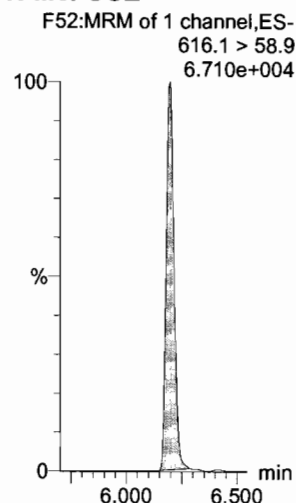
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_6, Date: 31-Oct-2017, Time: 16:52:53, ID: ST171031M1-5 PFC CS2 17J2809, Description: PFC CS2 17J2809

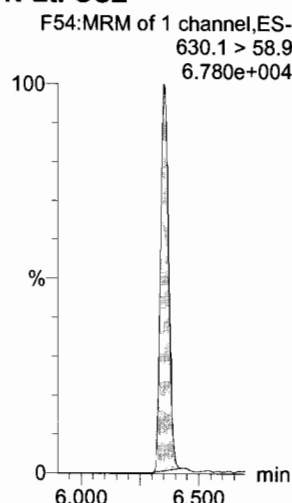
**PFODA**



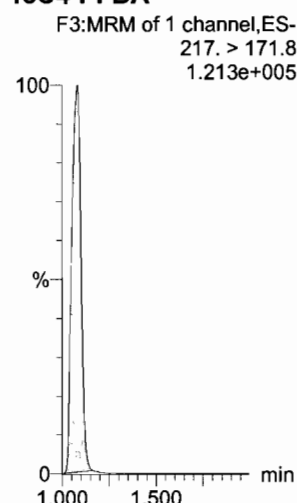
**N-MeFOSE**



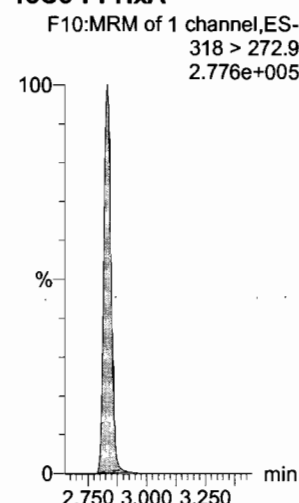
**N-EtFOSE**



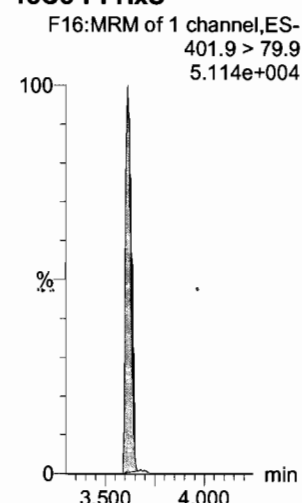
**13C4-PFBA**



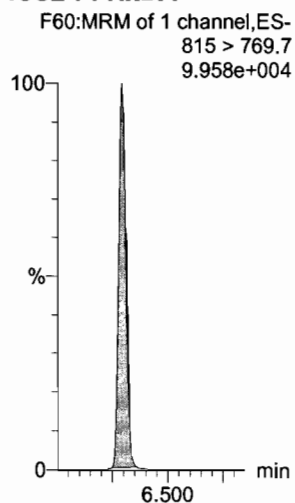
**13C5-PFHxA**



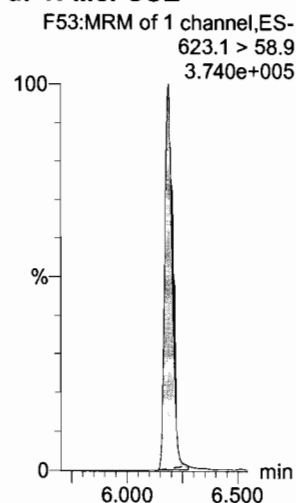
**13C3-PFHxS**



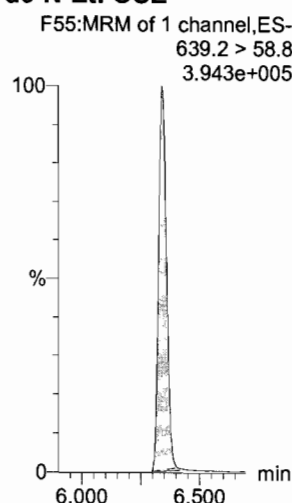
**13C2-PFHxDA**



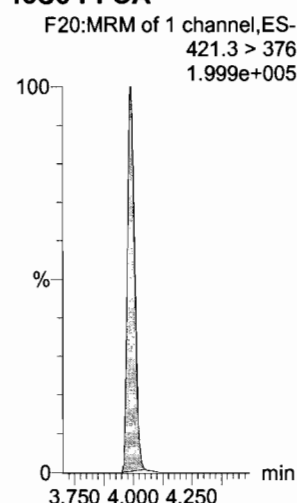
**d7-N-MeFOSE**



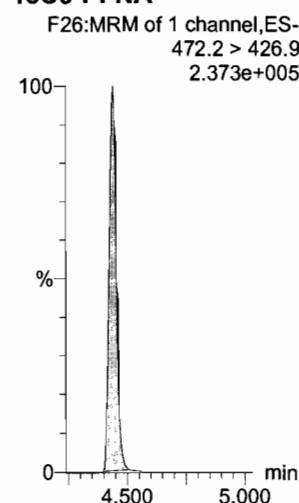
**d9-N-EtFOSE**



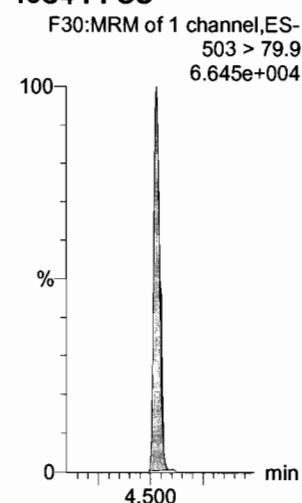
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**





Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

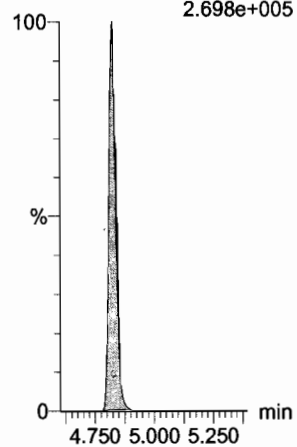
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_6, Date: 31-Oct-2017, Time: 16:52:53, ID: ST171031M1-5 PFC CS2 17J2809, Description: PFC CS2 17J2809

**13C6-PFDA**

F37:MRM of 1 channel, ES-  
519.1 > 473.7  
2.698e+005

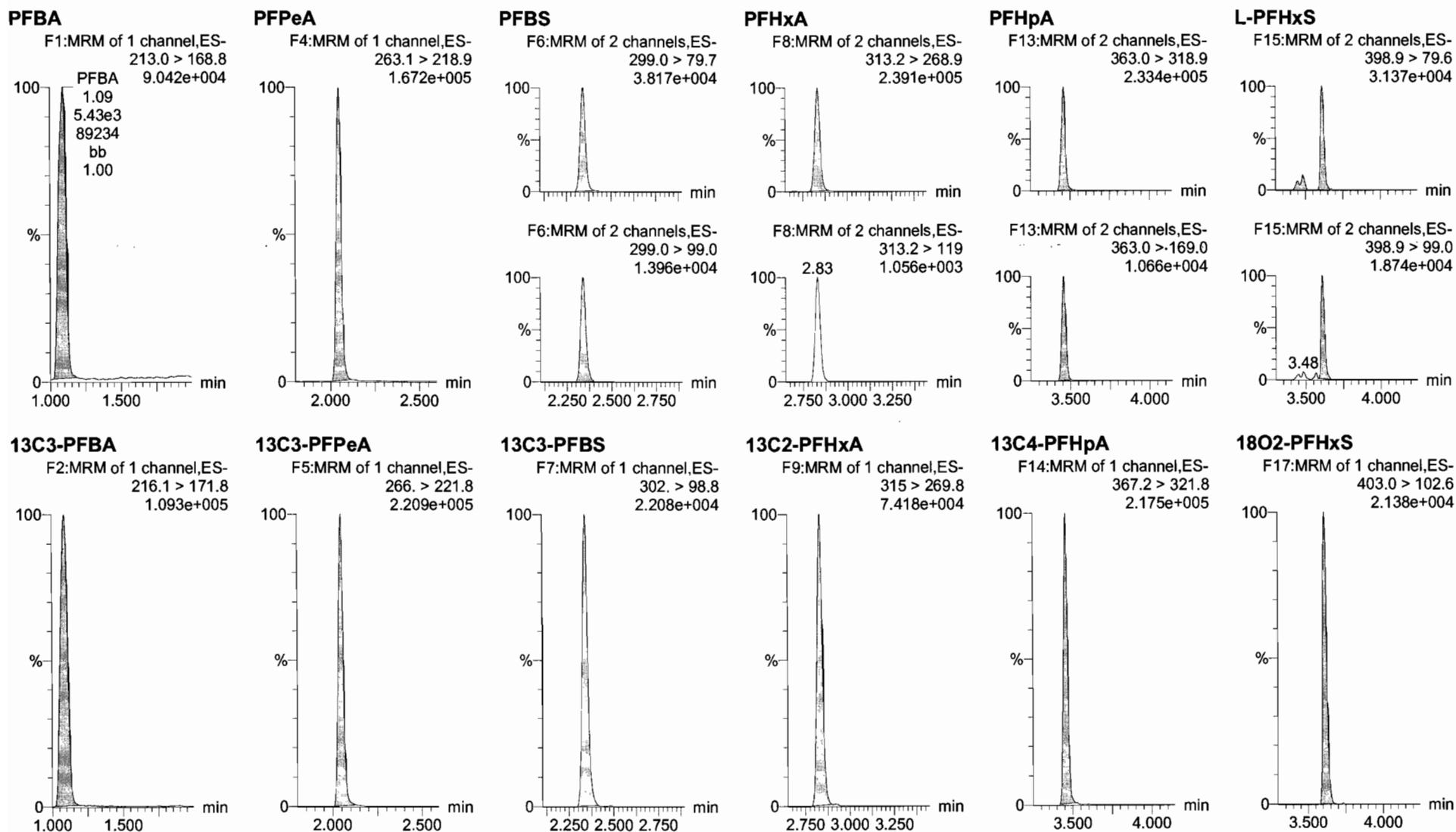


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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_7, Date: 31-Oct-2017, Time: 17:04:03, ID: ST171031M1-6 PFC CS3 17J2810, Description: PFC CS3 17J2810



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

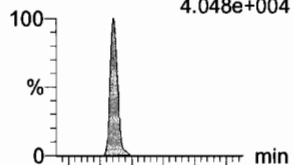
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_7, Date: 31-Oct-2017, Time: 17:04:03, ID: ST171031M1-6 PFC CS3 17J2810, Description: PFC CS3 17J2810

### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
4.048e+004



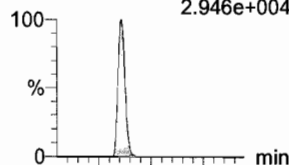
### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
2.172e+005



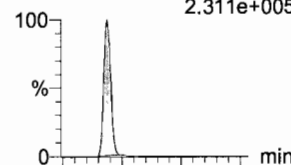
### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
2.946e+004



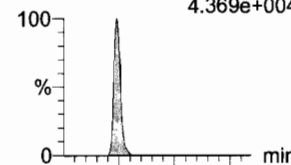
### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
2.311e+005



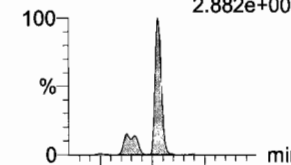
### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
4.369e+004

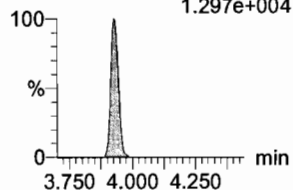


### L-PFOS

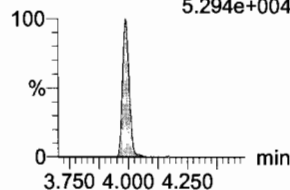
F29:MRM of 2 channels,ES-  
499 > 79.9  
2.882e+004



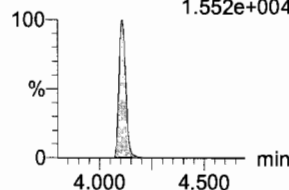
F21:MRM of 2 channels,ES-  
427.1 > 80  
1.297e+004



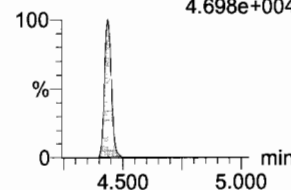
F18:MRM of 2 channels,ES-  
413 > 169  
5.294e+004



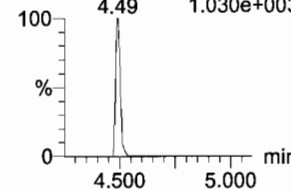
F23:MRM of 2 channels,ES-  
449 > 98.7  
1.552e+004



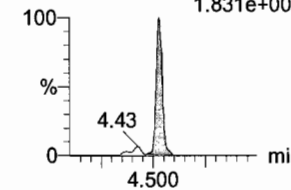
F24:MRM of 2 channels,ES-  
463.0 > 219.0  
4.698e+004



F27:MRM of 2 channels,ES-  
498.1 > 478  
1.030e+003

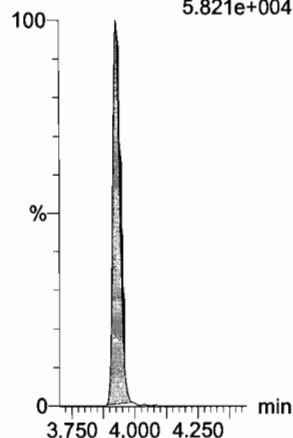


F29:MRM of 2 channels,ES-  
499 > 99  
1.831e+004



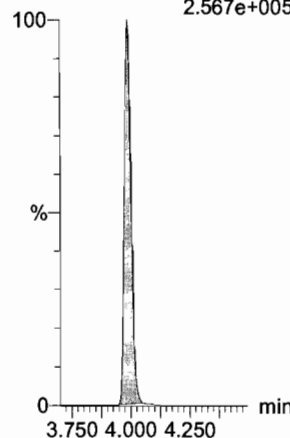
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
5.821e+004



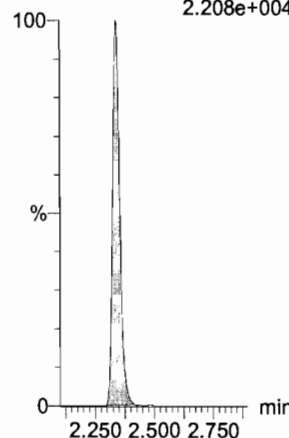
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.567e+005



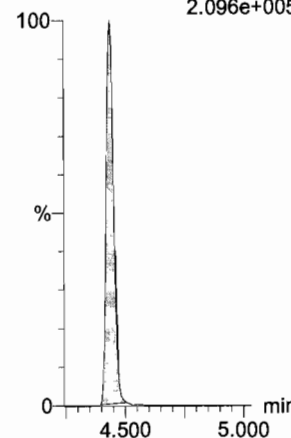
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.208e+004



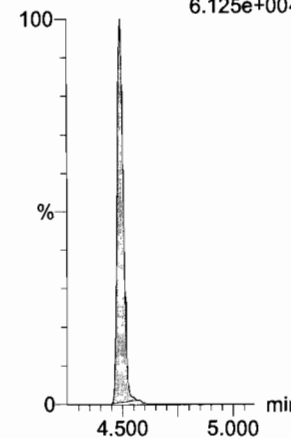
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.096e+005



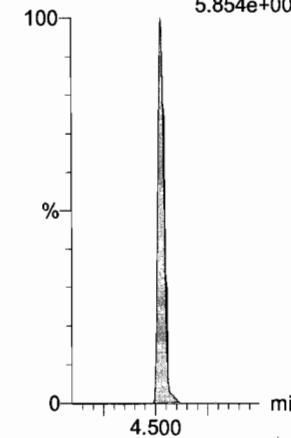
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
6.125e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
5.854e+004



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

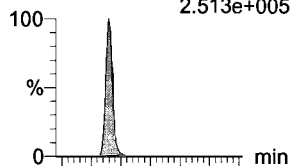
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

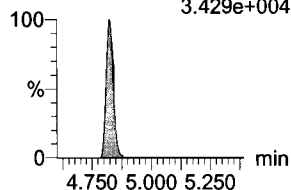
Name: 171031M1\_7, Date: 31-Oct-2017, Time: 17:04:03, ID: ST171031M1-6 PFC CS3 17J2810, Description: PFC CS3 17J2810

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
2.513e+005

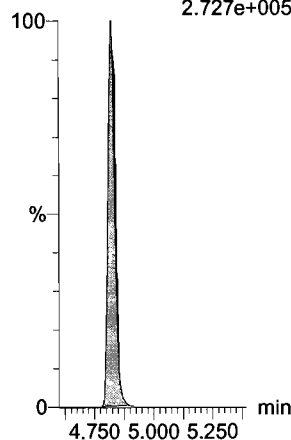


F34:MRM of 2 channels,ES-  
513 > 219  
3.429e+004



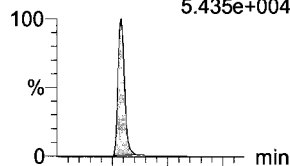
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.727e+005

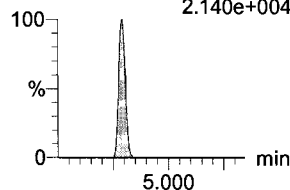


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
5.435e+004

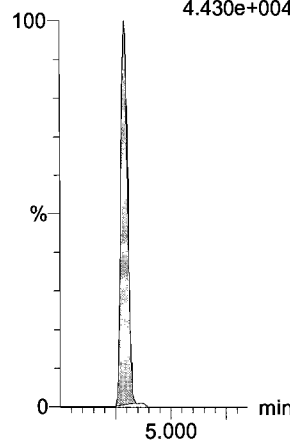


F39:MRM of 2 channels,ES-  
527 > 80  
2.140e+004



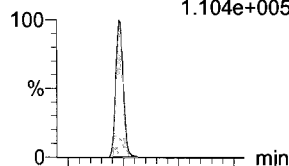
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.430e+004

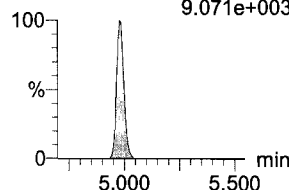


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.104e+005

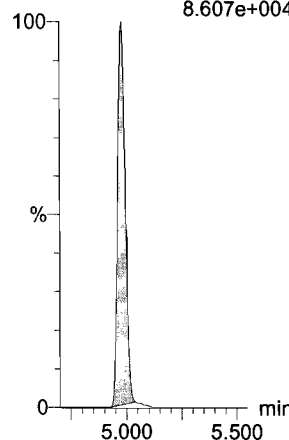


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
9.071e+003



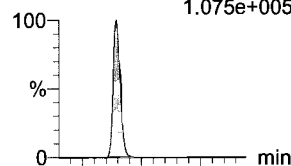
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
8.607e+004

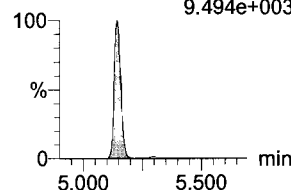


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.075e+005

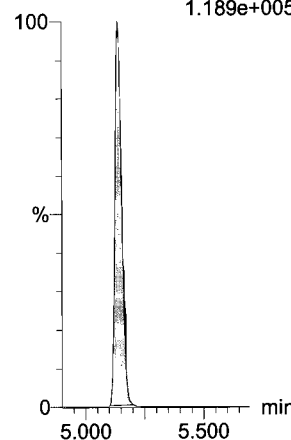


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
9.494e+003



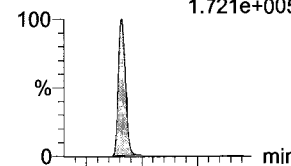
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.189e+005

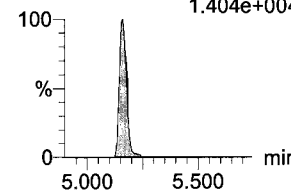


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
1.721e+005

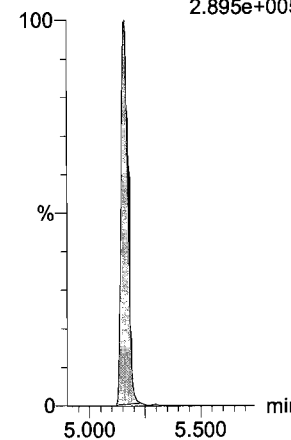


F42:MRM of 2 channels,ES-  
563.0 > 269  
1.404e+004



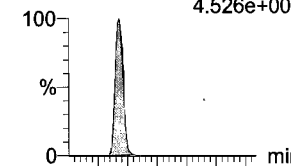
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.895e+005

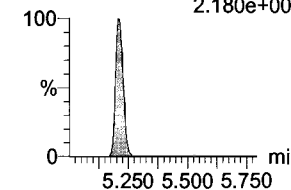


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
4.526e+004

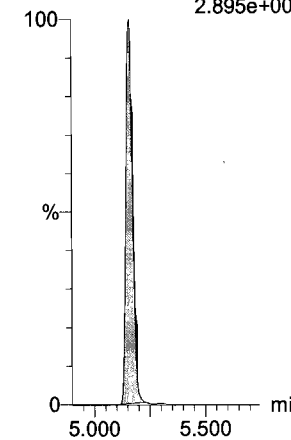


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
2.180e+004



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.895e+005



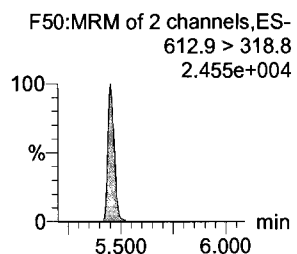
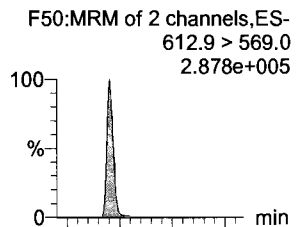
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

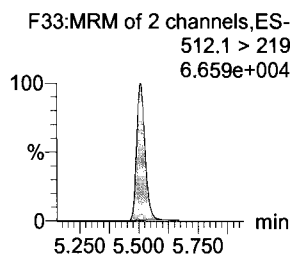
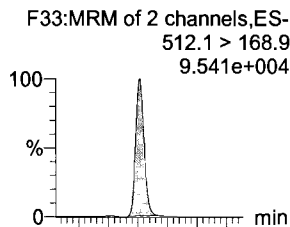
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_7, Date: 31-Oct-2017, Time: 17:04:03, ID: ST171031M1-6 PFC CS3 17J2810, Description: PFC CS3 17J2810

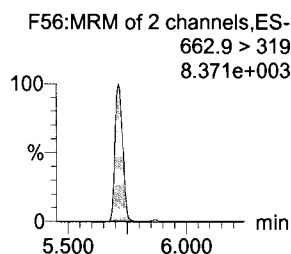
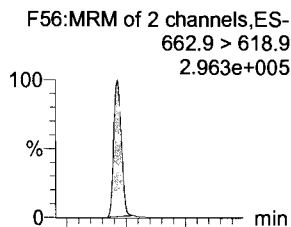
**PFDaA**



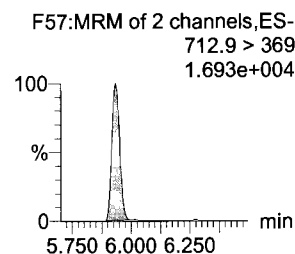
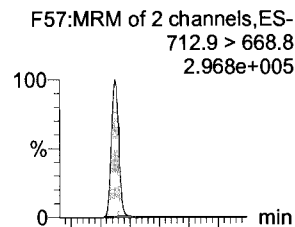
**N-MeFOSA**



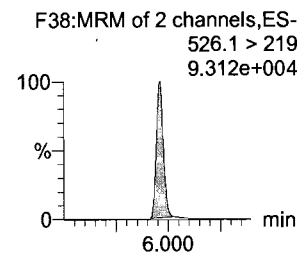
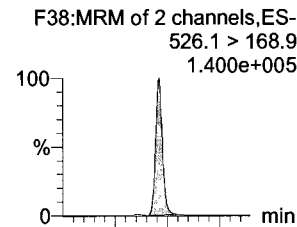
**PFTrDA**



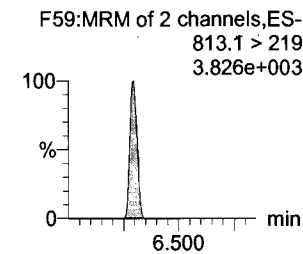
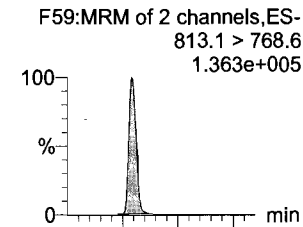
**PFTeDA**



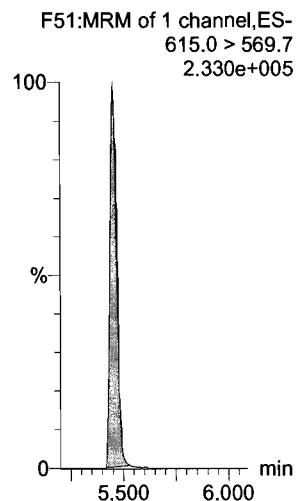
**N-EtFOSA**



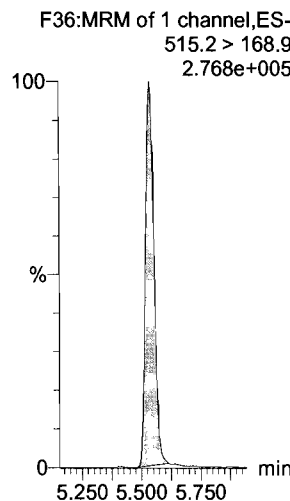
**PFHxDA**



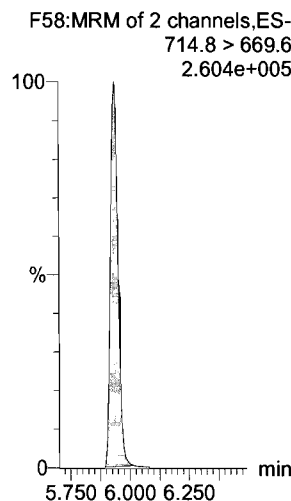
**13C2-PFDaA**



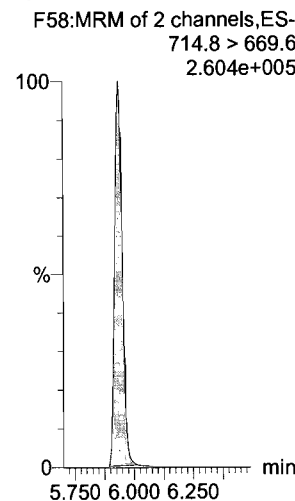
**d3-N-MeFOSA**



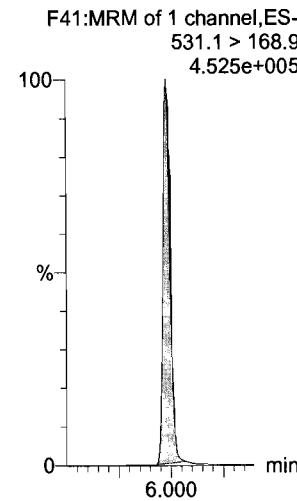
**13C2-PFTeDA**



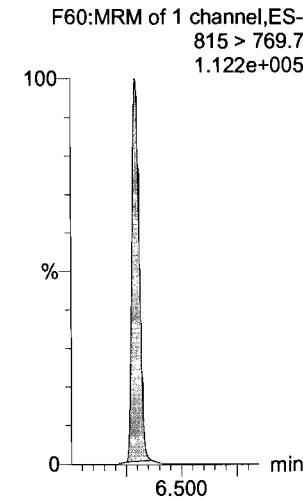
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

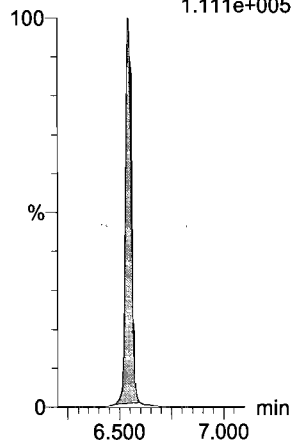
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_7, Date: 31-Oct-2017, Time: 17:04:03, ID: ST171031M1-6 PFC CS3 17J2810, Description: PFC CS3 17J2810

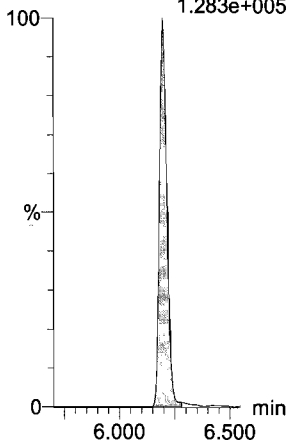
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
1.111e+005



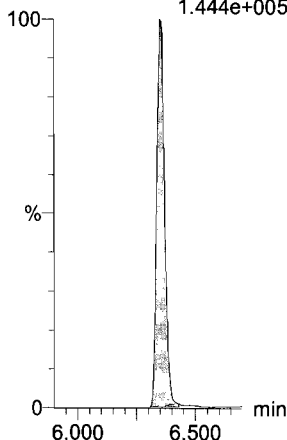
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
1.283e+005



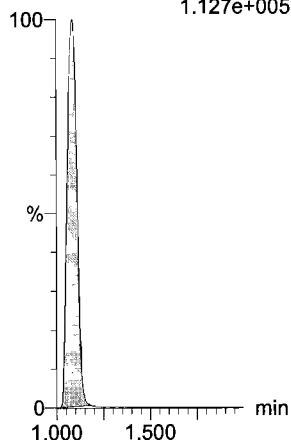
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
1.444e+005



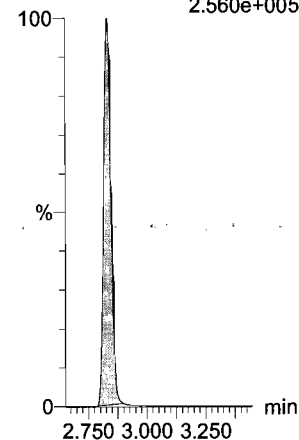
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.127e+005



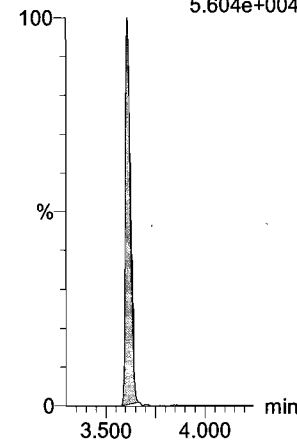
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
2.560e+005



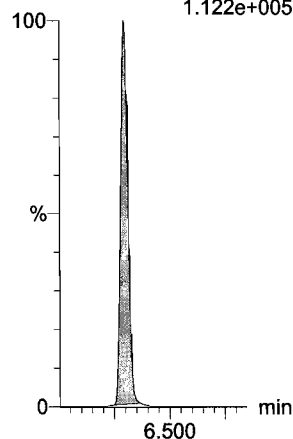
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
5.604e+004



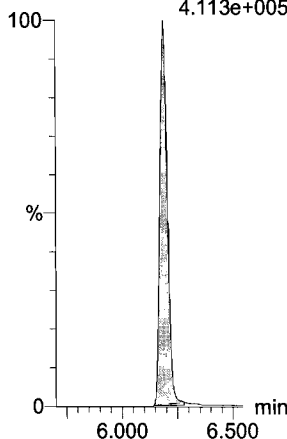
**13C2-PFHxDa**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.122e+005



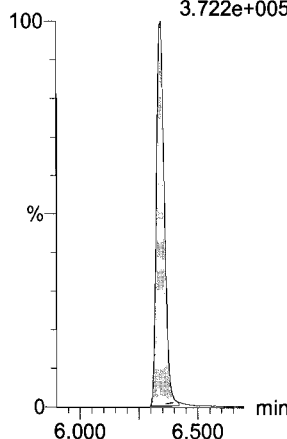
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
4.113e+005



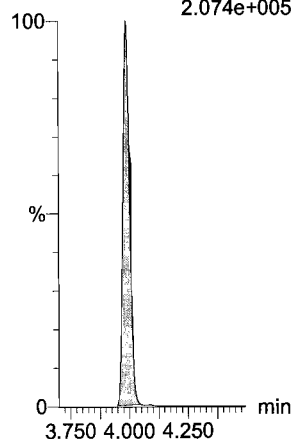
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
3.722e+005



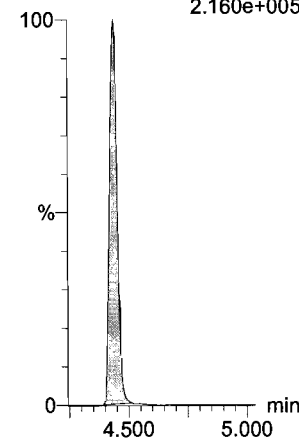
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
2.074e+005



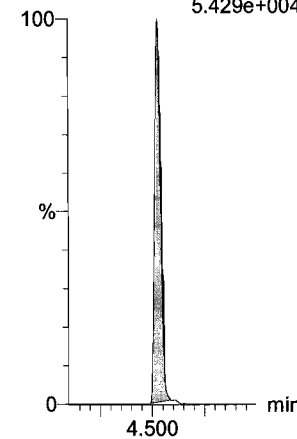
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.160e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.429e+004



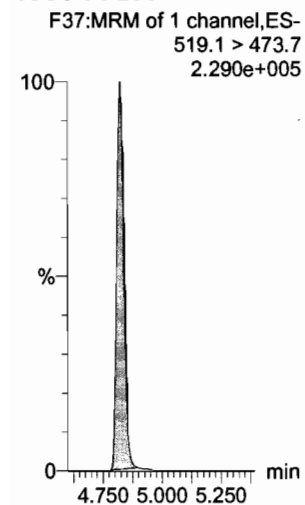
Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_7, Date: 31-Oct-2017, Time: 17:04:03, ID: ST171031M1-6 PFC CS3 17J2810, Description: PFC CS3 17J2810

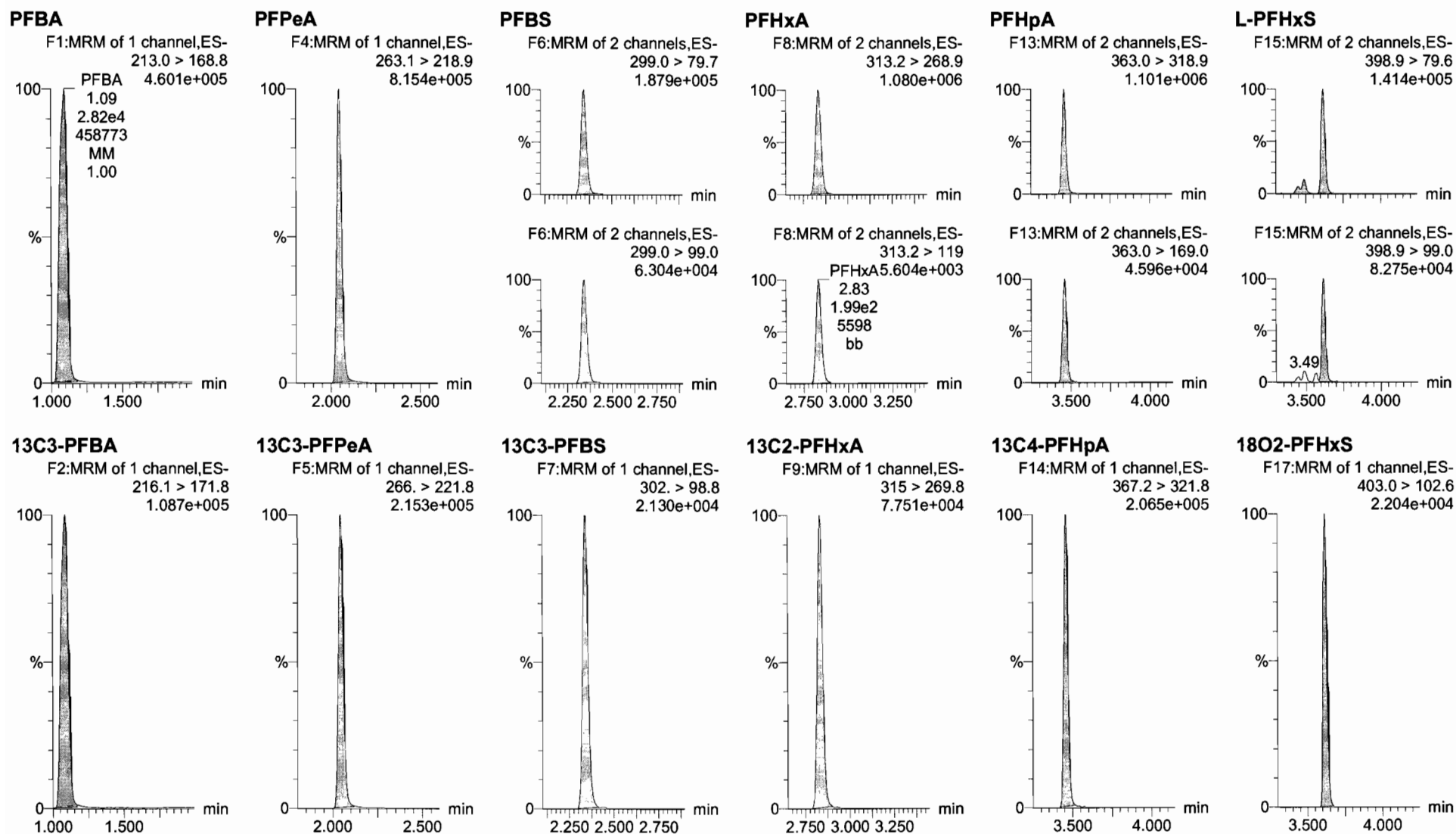
**13C6-PFDA**



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_8, Date: 31-Oct-2017, Time: 17:15:14, ID: ST171031M1-7 PFC CS4 17J2813, Description: PFC CS4 17J2813



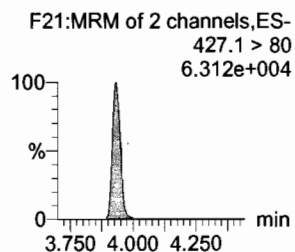
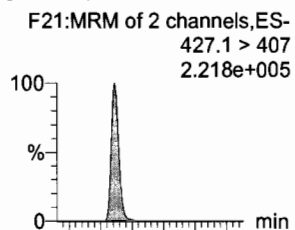


Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

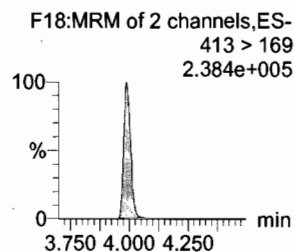
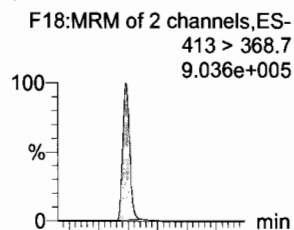
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_8, Date: 31-Oct-2017, Time: 17:15:14, ID: ST171031M1-7 PFC CS4 17J2813, Description: PFC CS4 17J2813

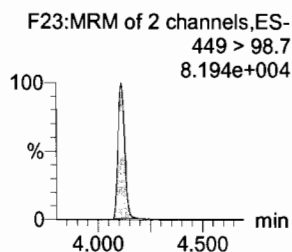
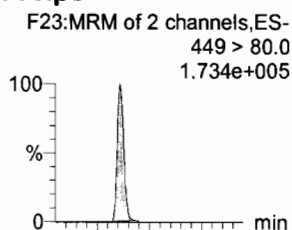
**6:2 FTS**



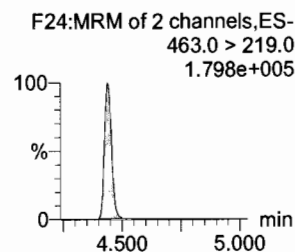
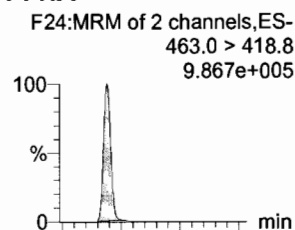
**L-PFOA**



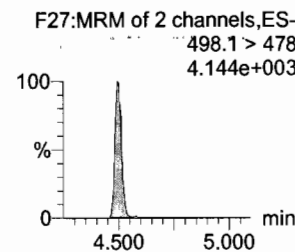
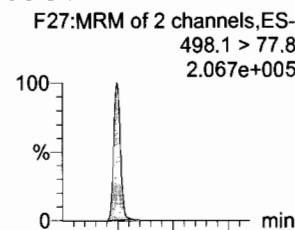
**PFHpS**



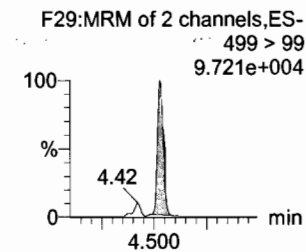
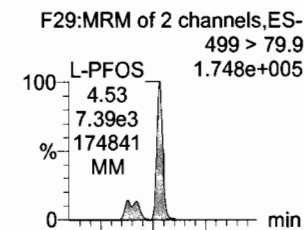
**PFNA**



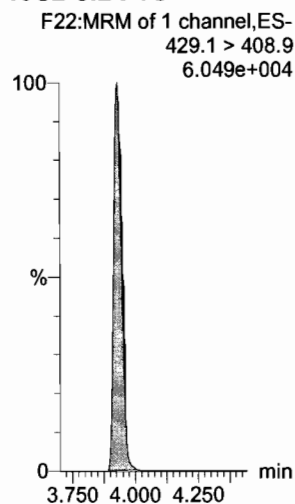
**PFOSA**



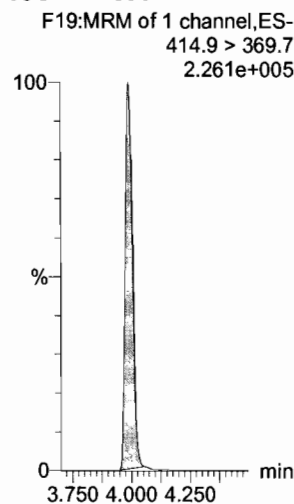
**L-PFOS**



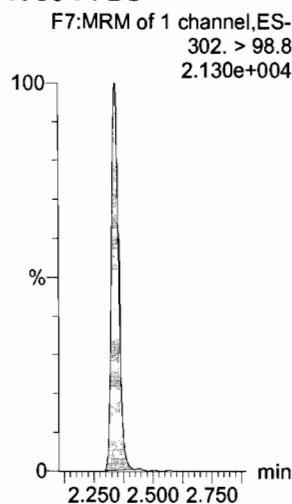
**13C2-6:2 FTS**



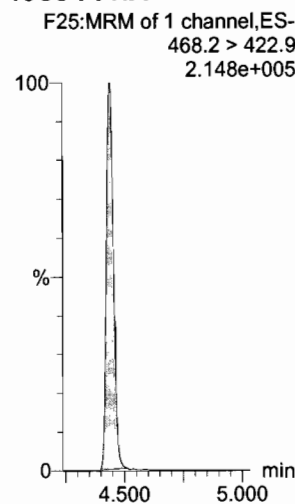
**13C2-PFOA**



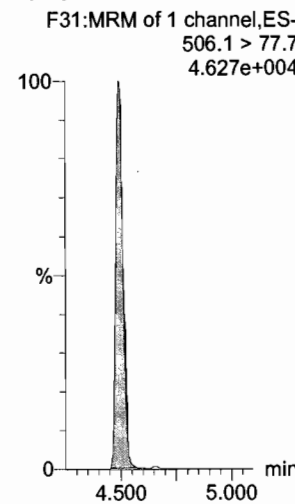
**13C3-PFBS**



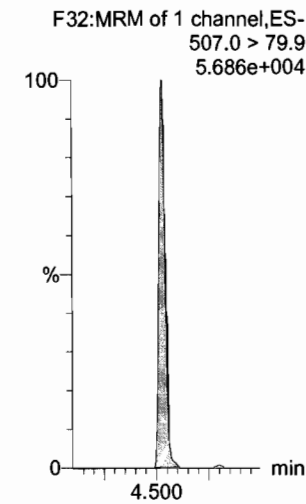
**13C5-PFNA**



**13C8-PFOSA**



**13C8-PFOS**



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

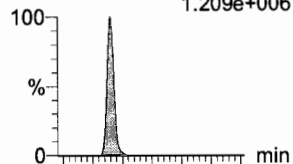
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

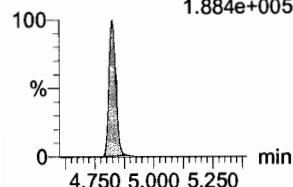
Name: 171031M1\_8, Date: 31-Oct-2017, Time: 17:15:14, ID: ST171031M1-7 PFC CS4 17J2813, Description: PFC CS4 17J2813

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.209e+006

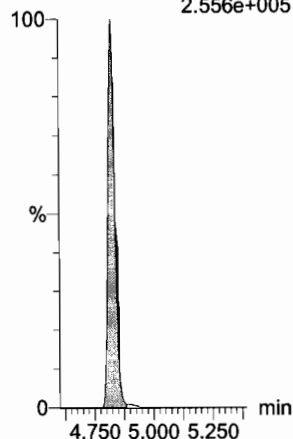


F34:MRM of 2 channels,ES-  
513 > 219  
1.884e+005



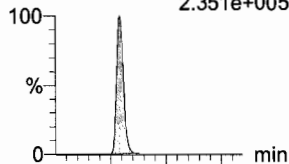
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.556e+005

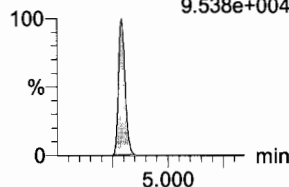


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
2.351e+005

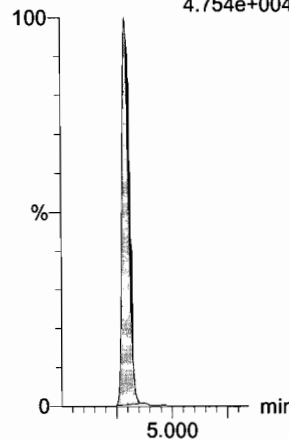


F39:MRM of 2 channels,ES-  
527 > 80  
9.538e+004



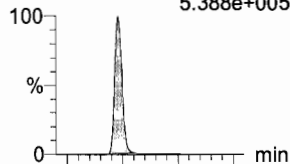
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.754e+004

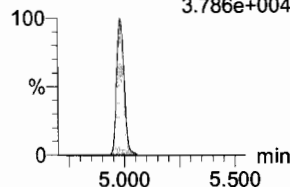


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
5.388e+005

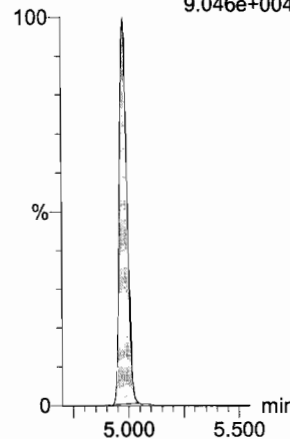


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
3.786e+004



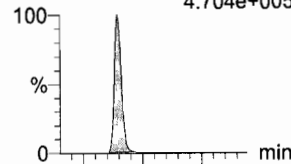
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
9.046e+004

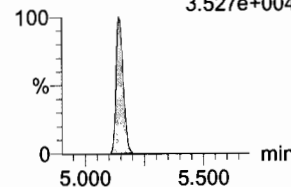


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
4.704e+005

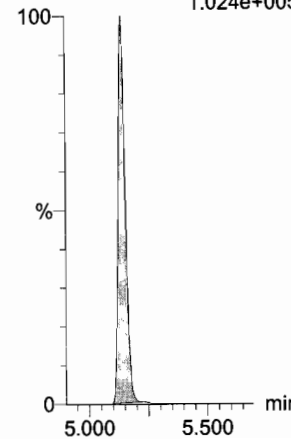


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
3.527e+004



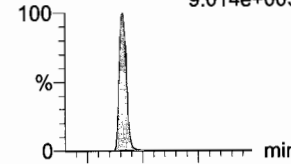
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.024e+005

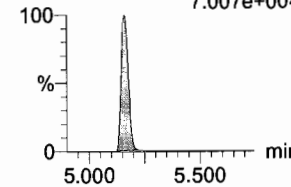


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
9.014e+005

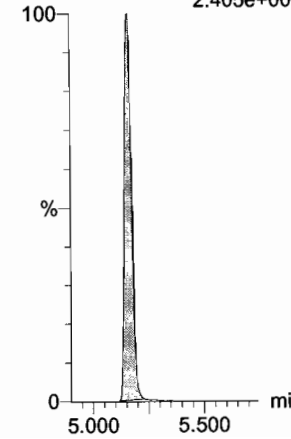


F42:MRM of 2 channels,ES-  
563.0 > 269  
7.007e+004



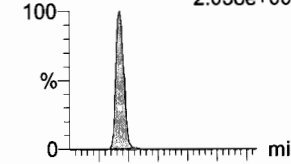
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.405e+005

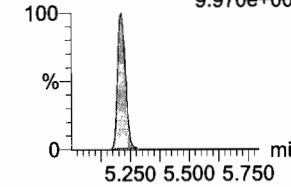


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
2.058e+005

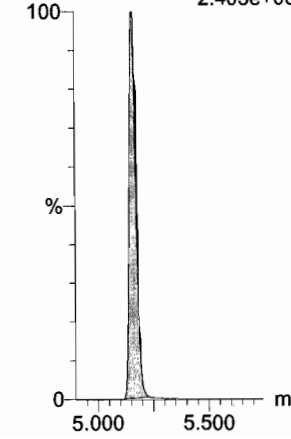


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
9.970e+004



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.405e+005



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

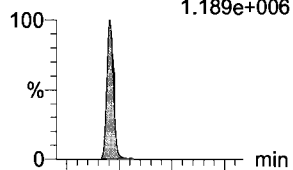
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

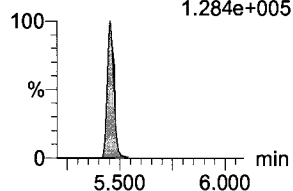
Name: 171031M1\_8, Date: 31-Oct-2017, Time: 17:15:14, ID: ST171031M1-7 PFC CS4 17J2813, Description: PFC CS4 17J2813

**PFDaA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
1.189e+006

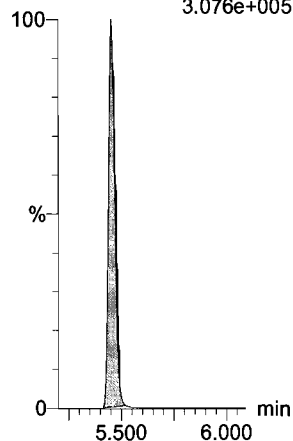


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
1.284e+005



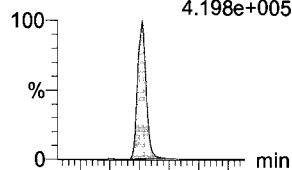
**13C2-PFDaA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
3.076e+005

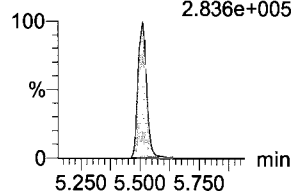


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
4.198e+005

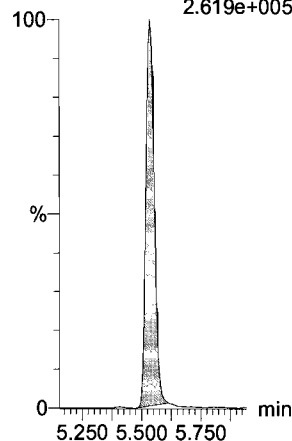


F33:MRM of 2 channels,ES-  
512.1 > 219  
2.836e+005



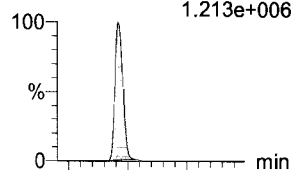
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
2.619e+005

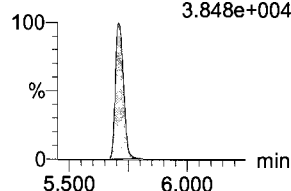


**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
1.213e+006

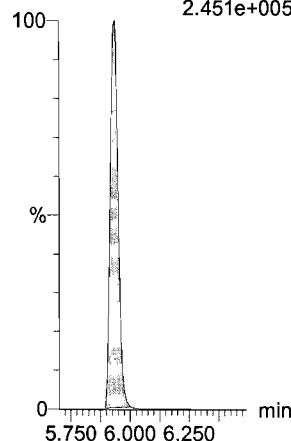


F56:MRM of 2 channels,ES-  
662.9 > 319  
3.848e+004



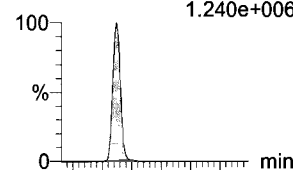
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.451e+005

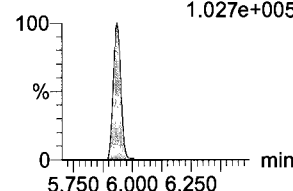


**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
1.240e+006

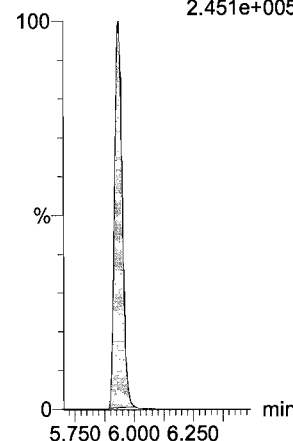


F57:MRM of 2 channels,ES-  
712.9 > 369  
1.027e+005



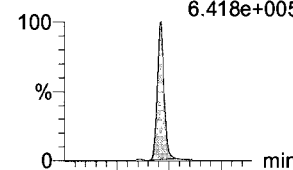
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.451e+005

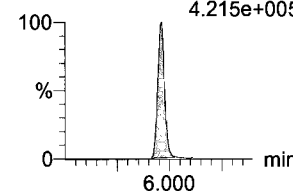


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
6.418e+005

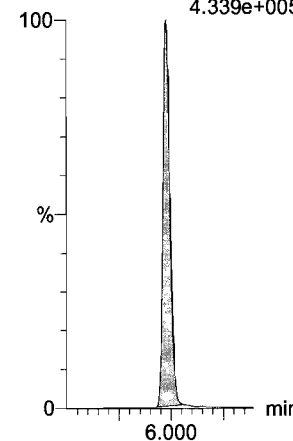


F38:MRM of 2 channels,ES-  
526.1 > 219  
4.215e+005



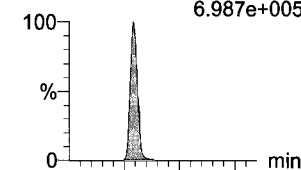
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.339e+005

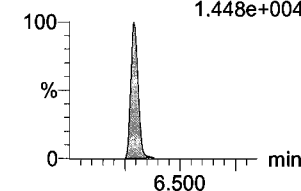


**PFHxDA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
6.987e+005

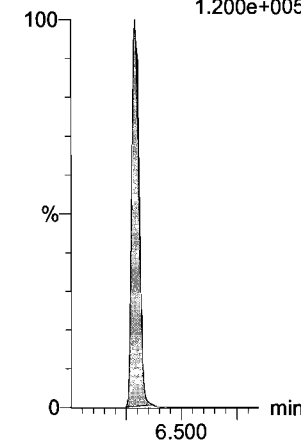


F59:MRM of 2 channels,ES-  
813.1 > 219  
1.448e+004



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.200e+005

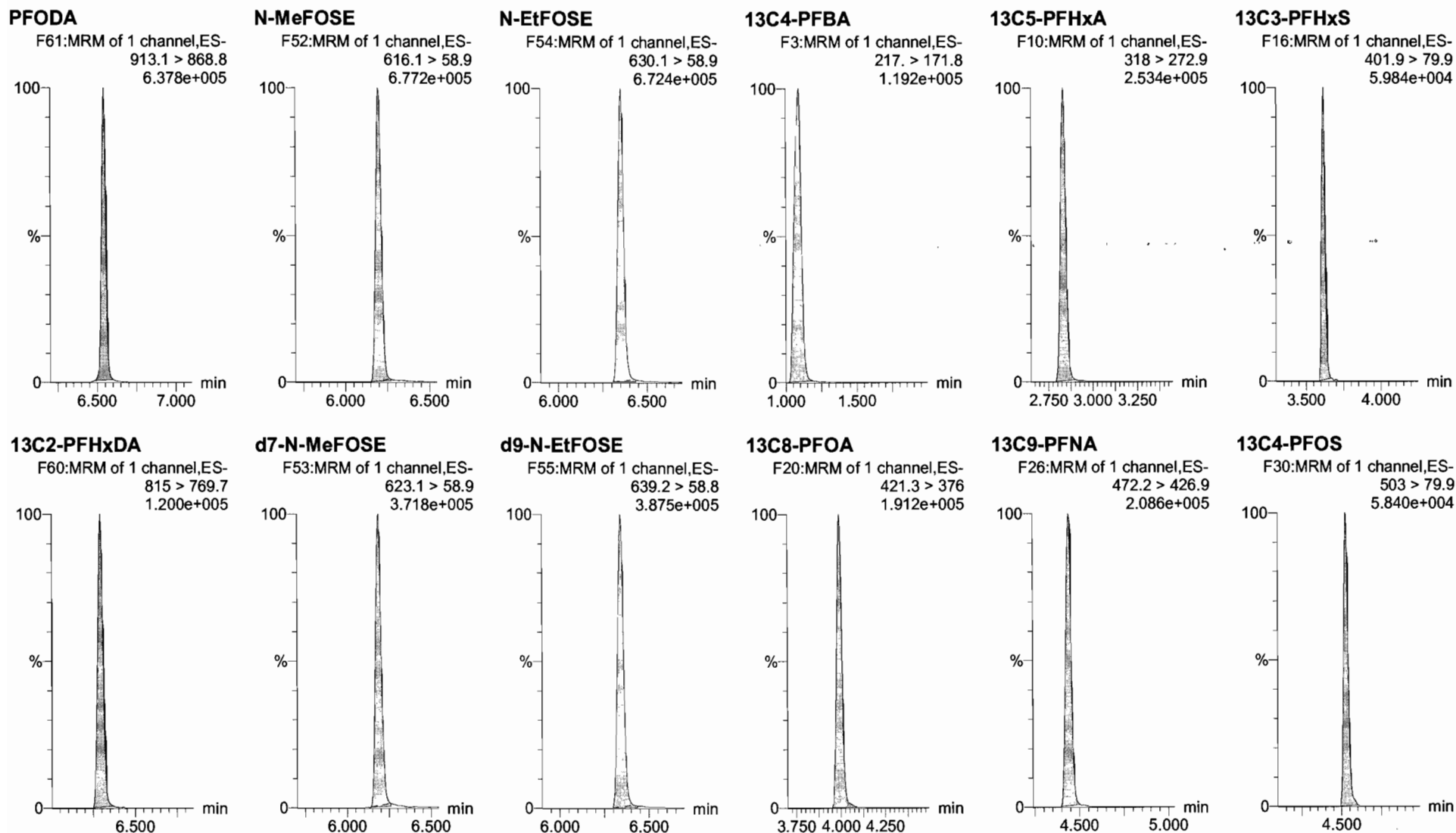


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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_8, Date: 31-Oct-2017, Time: 17:15:14, ID: ST171031M1-7 PFC CS4 17J2813, Description: PFC CS4 17J2813



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

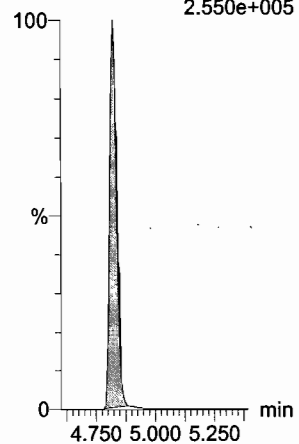
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_8, Date: 31-Oct-2017, Time: 17:15:14, ID: ST171031M1-7 PFC CS4 17J2813, Description: PFC CS4 17J2813

13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.550e+005

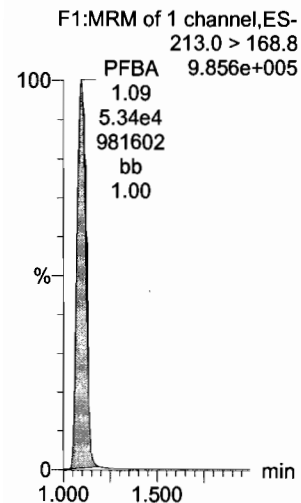


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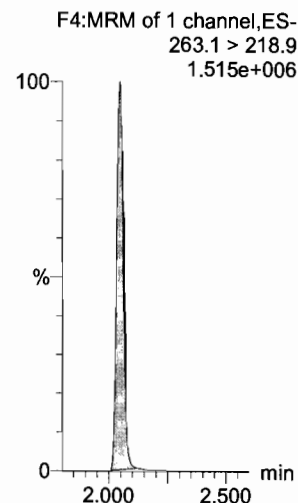
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_9, Date: 31-Oct-2017, Time: 17:26:43, ID: ST171031M1-8 PFC CS5 17J2814, Description: PFC CS5 17J2814

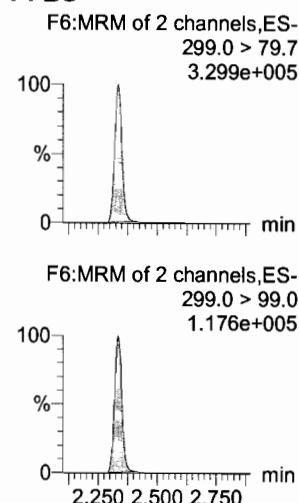
**PFBA**



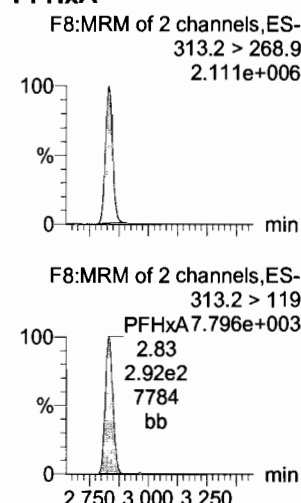
**PFPeA**



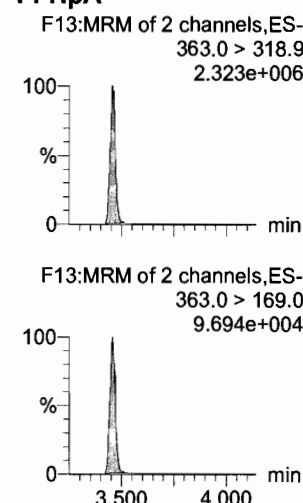
**PFBS**



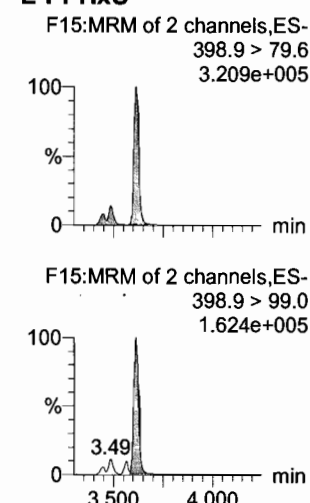
**PFHxA**



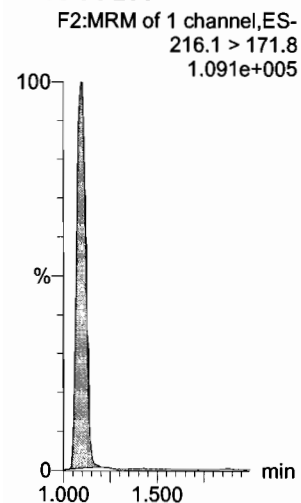
**PFHpA**



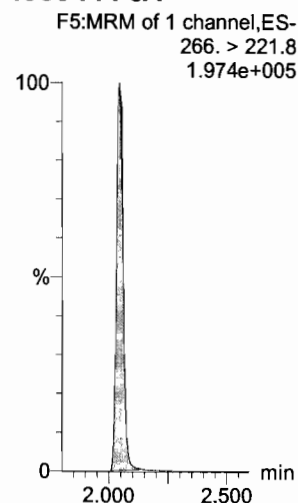
**L-PFHxS**



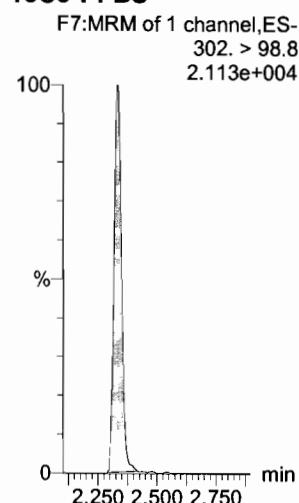
**13C3-PFBA**



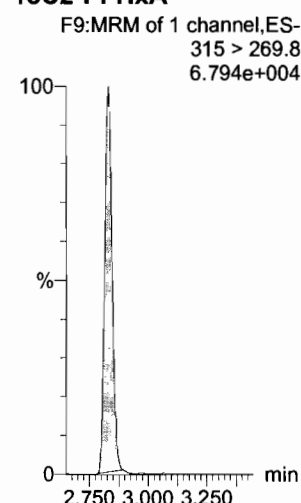
**13C3-PFPeA**



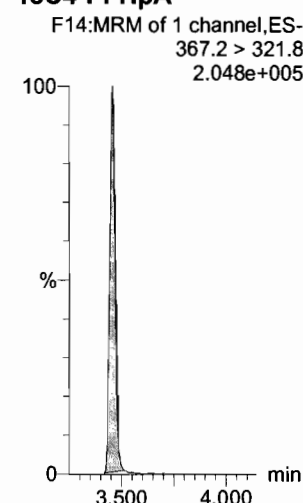
**13C3-PFBS**



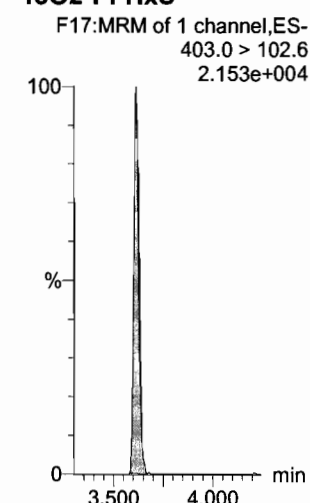
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

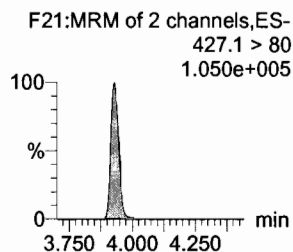
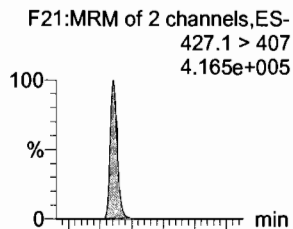


Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

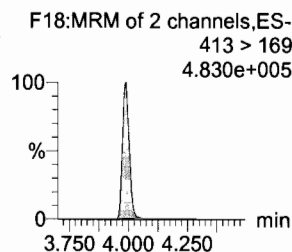
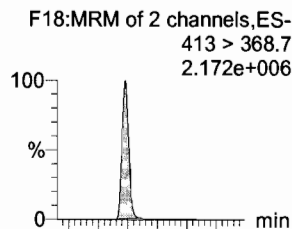
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_9, Date: 31-Oct-2017, Time: 17:26:43, ID: ST171031M1-8 PFC CS5 17J2814, Description: PFC CS5 17J2814

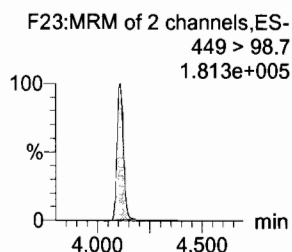
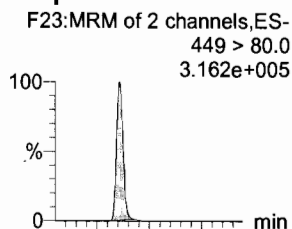
**6:2 FTS**



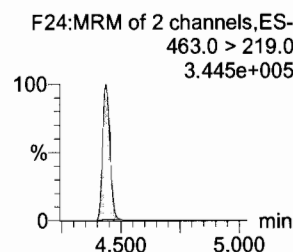
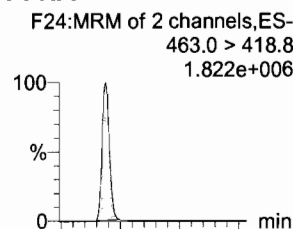
**L-PFOA**



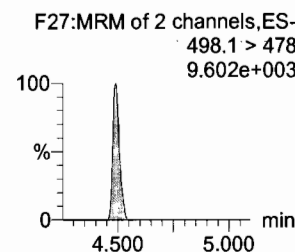
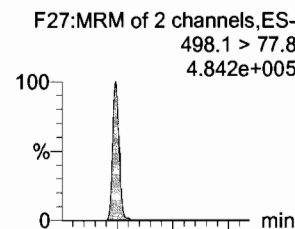
**PFHpS**



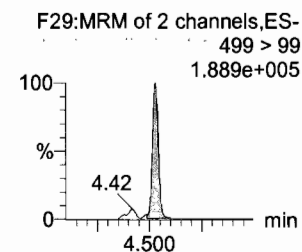
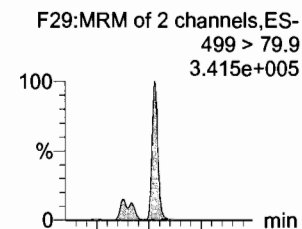
**PFNA**



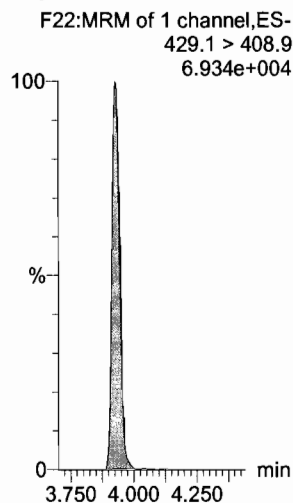
**PFOSA**



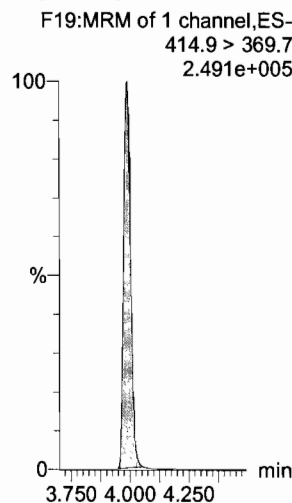
**L-PFOS**



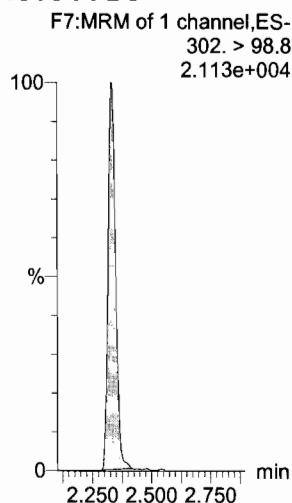
**13C2-6:2 FTS**



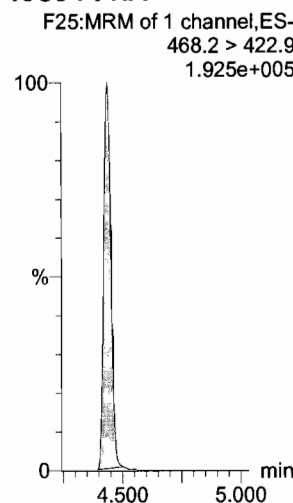
**13C2-PFOA**



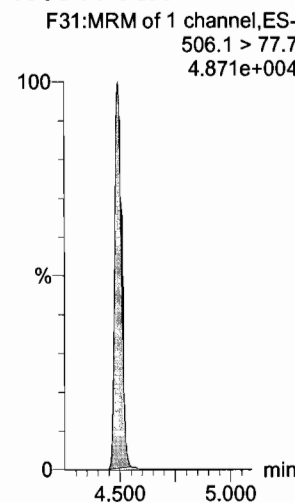
**13C3-PFBS**



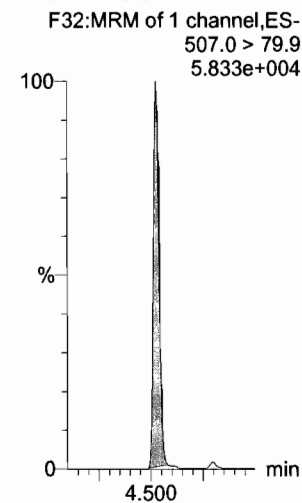
**13C5-PFNA**



**13C8-PFOA**



**13C8-PFOS**

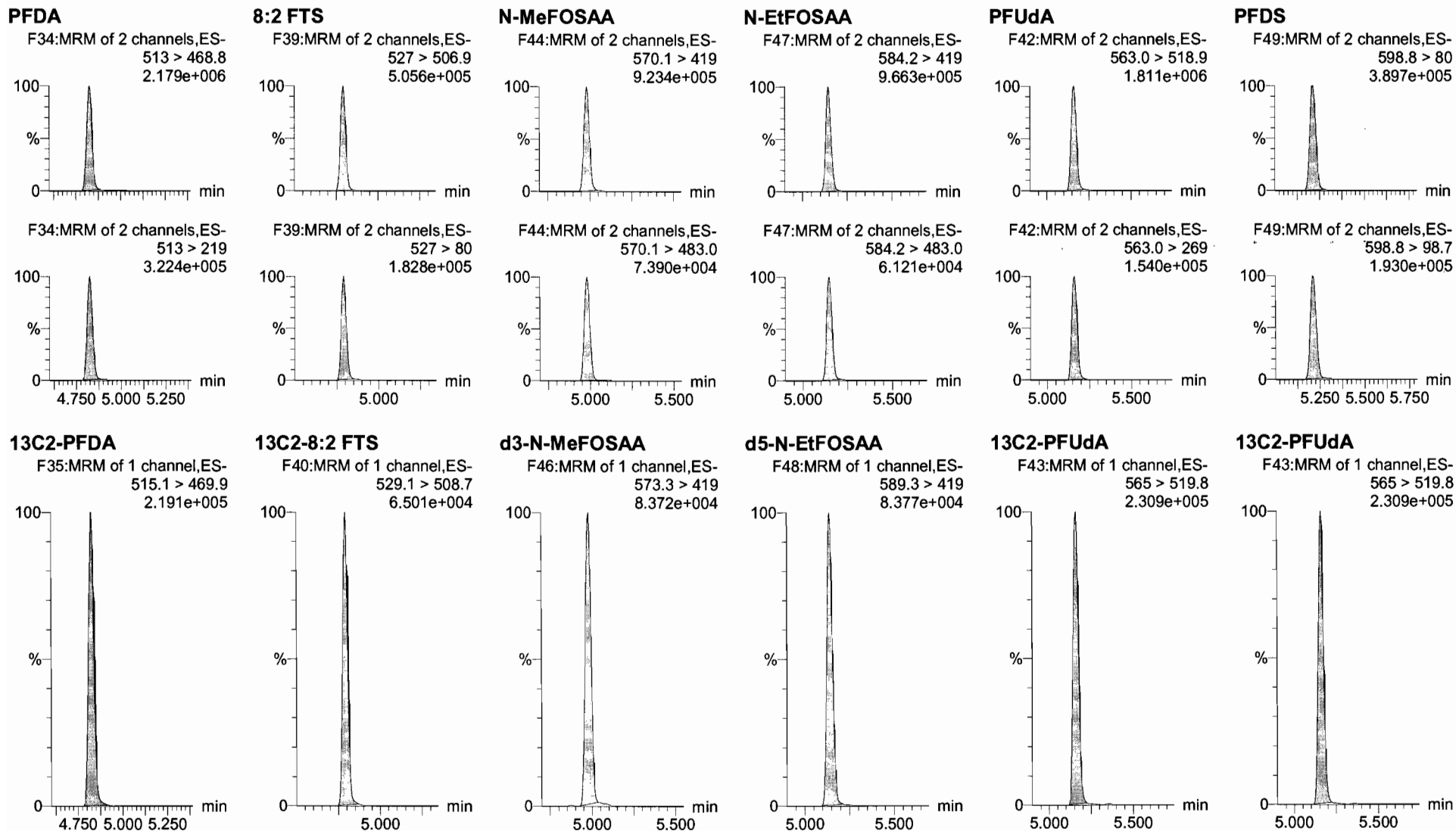


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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_9, Date: 31-Oct-2017, Time: 17:26:43, ID: ST171031M1-8 PFC CS5 17J2814, Description: PFC CS5 17J2814





Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

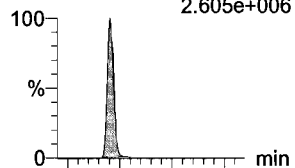
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

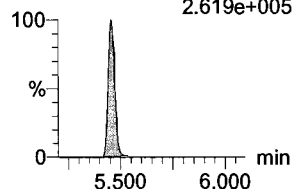
Name: 171031M1\_9, Date: 31-Oct-2017, Time: 17:26:43, ID: ST171031M1-8 PFC CS5 17J2814, Description: PFC CS5 17J2814

**PFDaA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
2.605e+006

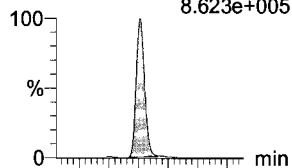


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
2.619e+005

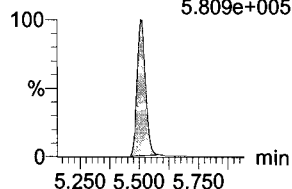


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
8.623e+005

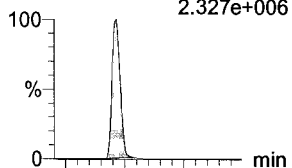


F33:MRM of 2 channels,ES-  
512.1 > 219  
5.809e+005

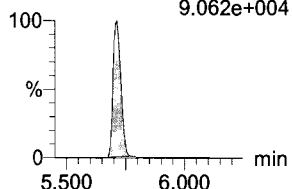


**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
2.327e+006

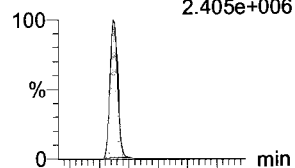


F56:MRM of 2 channels,ES-  
662.9 > 319  
9.062e+004

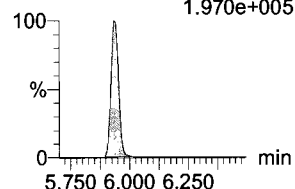


**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
2.405e+006

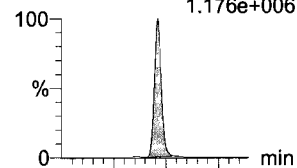


F57:MRM of 2 channels,ES-  
712.9 > 369  
1.970e+005

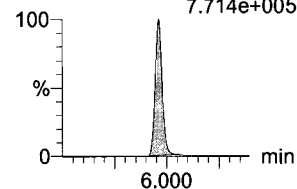


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
1.176e+006

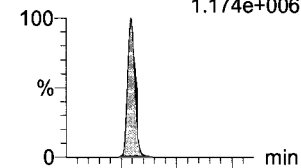


F38:MRM of 2 channels,ES-  
526.1 > 219  
7.714e+005

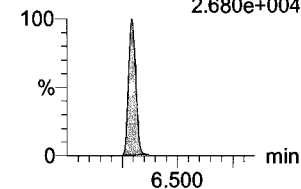


**PFHxDA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.174e+006

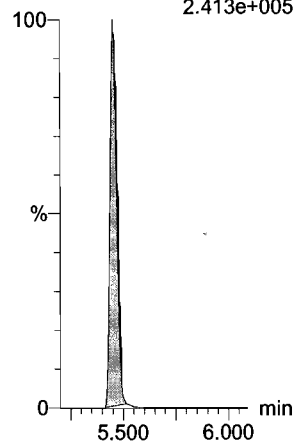


F59:MRM of 2 channels,ES-  
813.1 > 219  
2.680e+004



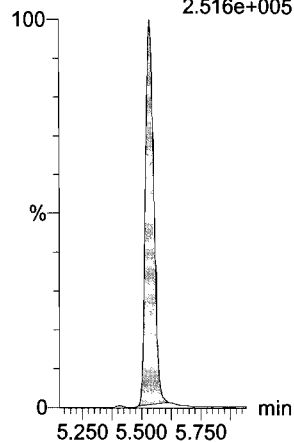
**13C2-PFDaA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.413e+005



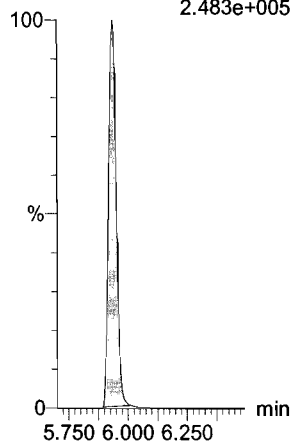
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
2.516e+005



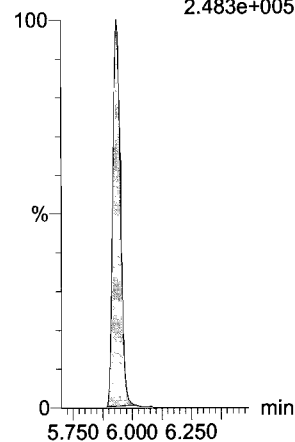
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.483e+005



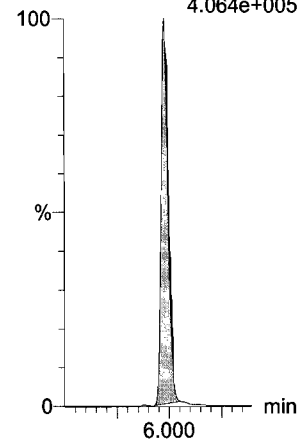
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.483e+005



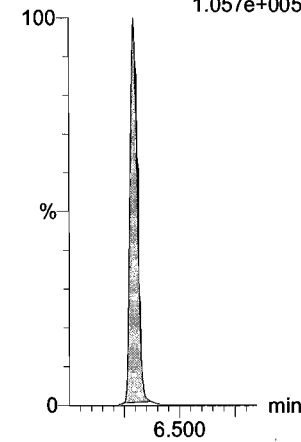
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
4.064e+005



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.057e+005



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

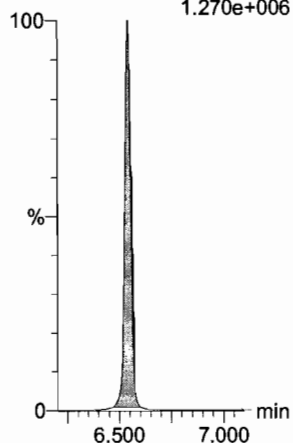
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_9, Date: 31-Oct-2017, Time: 17:26:43, ID: ST171031M1-8 PFC CS5 17J2814, Description: PFC CS5 17J2814

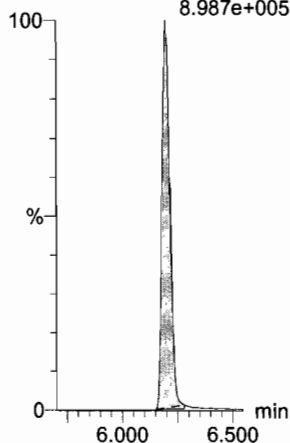
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
1.270e+006



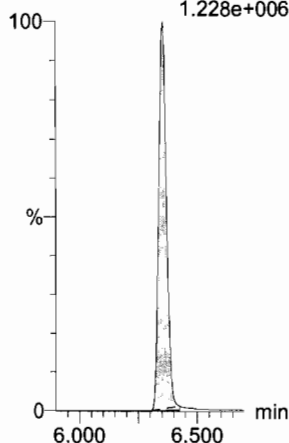
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
8.987e+005



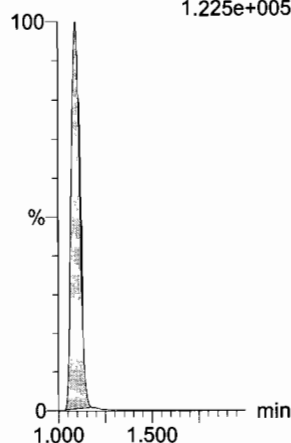
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
1.228e+006



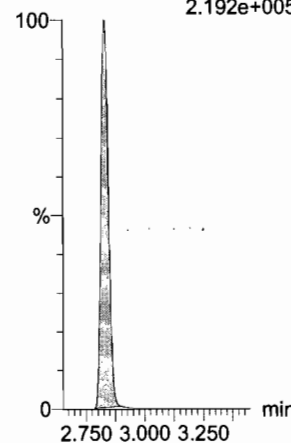
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.225e+005



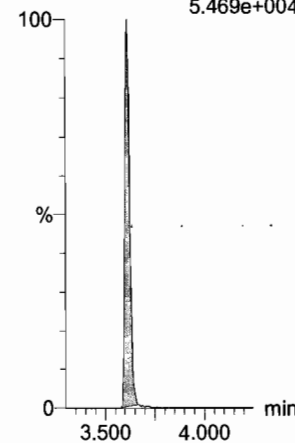
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
2.192e+005



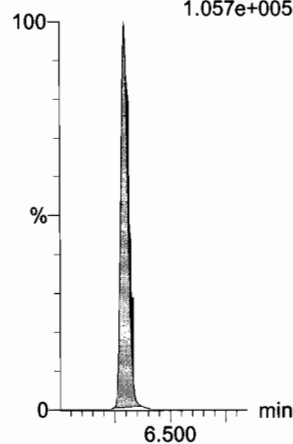
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
5.469e+004



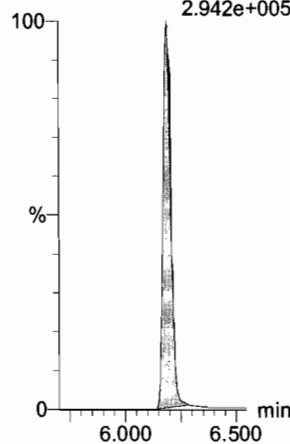
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.057e+005



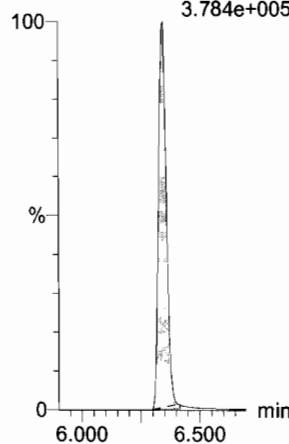
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
2.942e+005



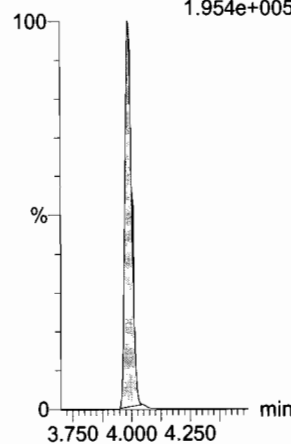
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
3.784e+005



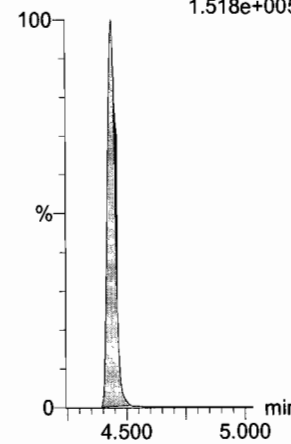
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
1.954e+005



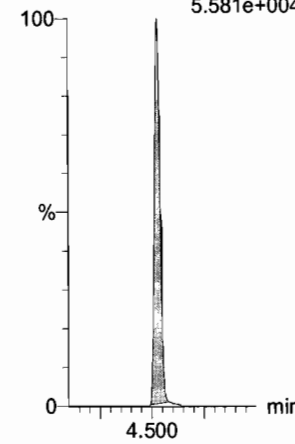
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
1.518e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.581e+004



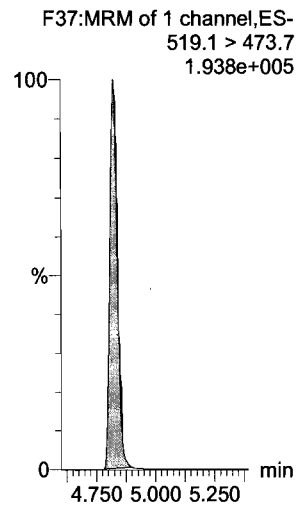
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_9, Date: 31-Oct-2017, Time: 17:26:43, ID: ST171031M1-8 PFC CS5 17J2814, Description: PFC CS5 17J2814

**13C6-PFDA**

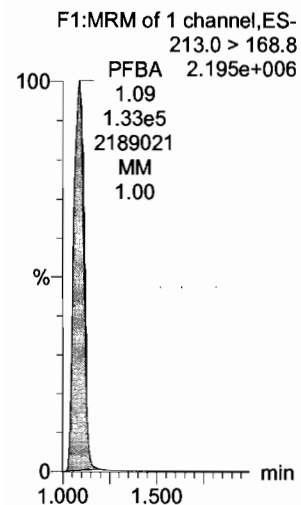


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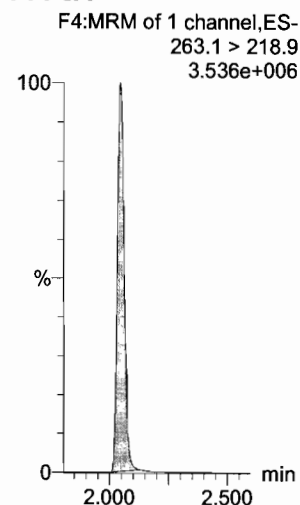
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time  
Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_10, Date: 31-Oct-2017, Time: 17:38:27, ID: ST171031M1-9 PFC CS6 17J2815, Description: PFC CS6 17J2815

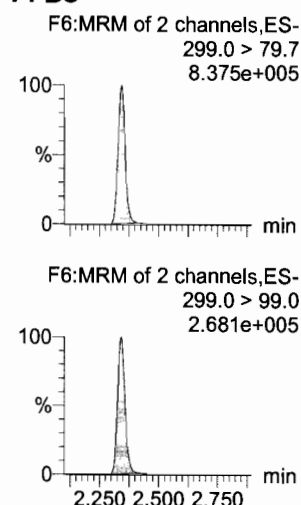
**PFBA**



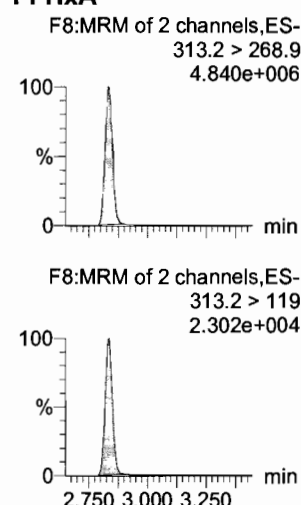
**PFPeA**



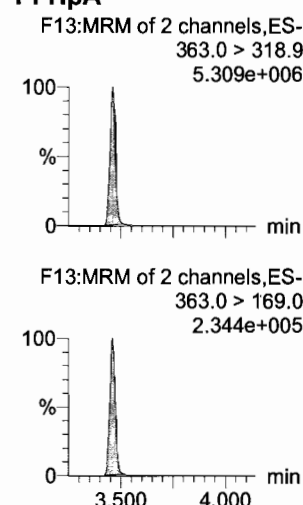
**PFBS**



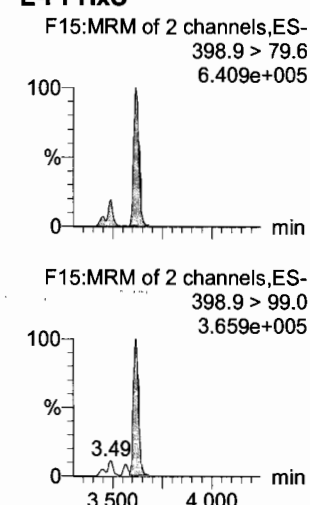
**PFHxA**



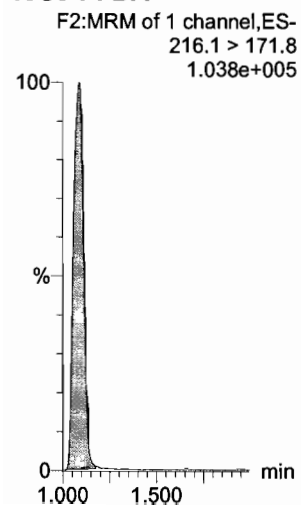
**PFHpA**



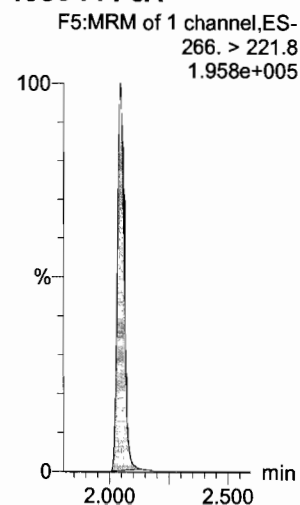
**L-PFHxS**



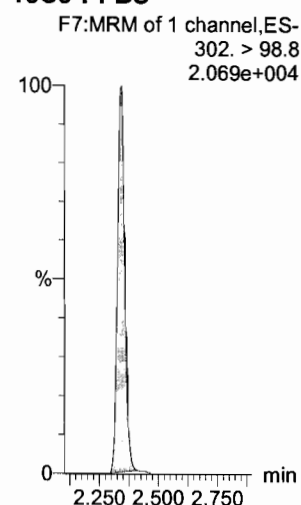
**13C3-PFBA**



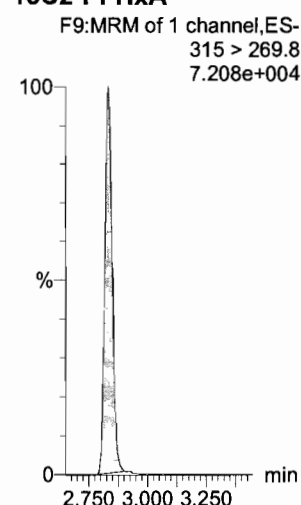
**13C3-PFPeA**



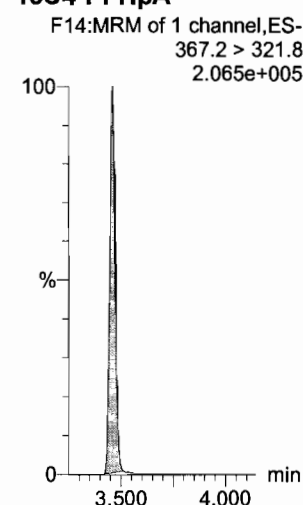
**13C3-PFBS**



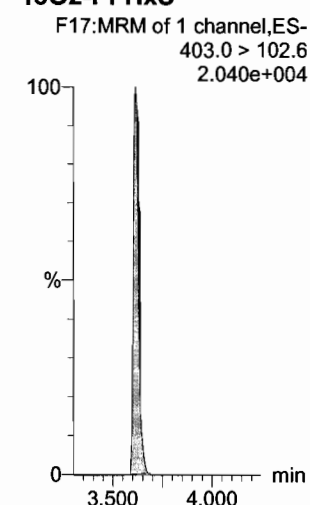
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

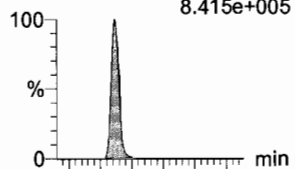
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

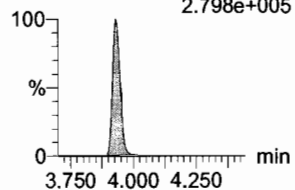
Name: 171031M1\_10, Date: 31-Oct-2017, Time: 17:38:27, ID: ST171031M1-9 PFC CS6 17J2815, Description: PFC CS6 17J2815

### 6:2 FTS

F21:MRM of 2 channels,ES-  
427.1 > 407  
8.415e+005

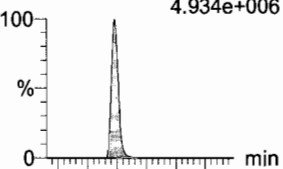


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.798e+005

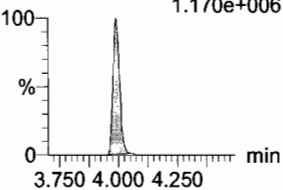


### L-PFOA

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.934e+006

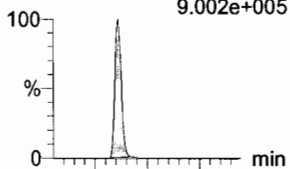


F18:MRM of 2 channels,ES-  
413 > 169  
1.170e+006

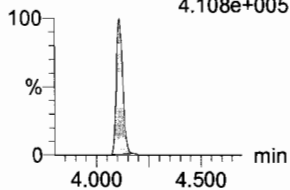


### PFHpS

F23:MRM of 2 channels,ES-  
449 > 80.0  
9.002e+005

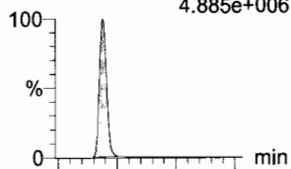


F23:MRM of 2 channels,ES-  
449 > 98.7  
4.108e+005

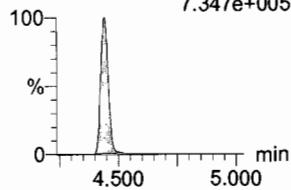


### PFNA

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.885e+006

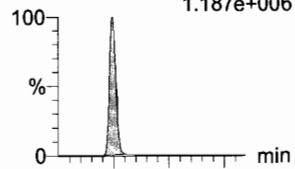


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
7.347e+005

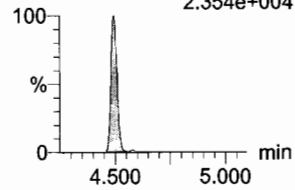


### PFOSA

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.187e+006

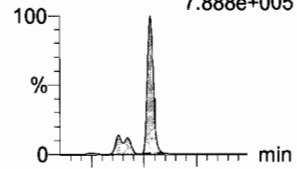


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.354e+004

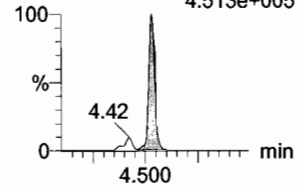


### L-PFOS

F29:MRM of 2 channels,ES-  
499 > 79.9  
7.888e+005

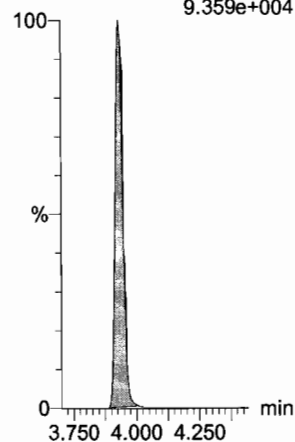


F29:MRM of 2 channels,ES-  
499 > 99  
4.513e+005



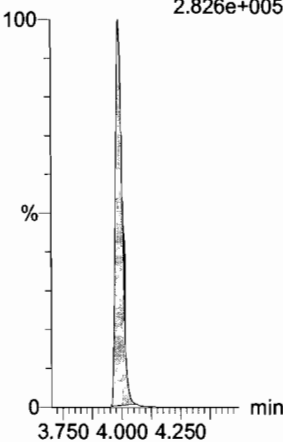
### 13C2-6:2 FTS

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
9.359e+004



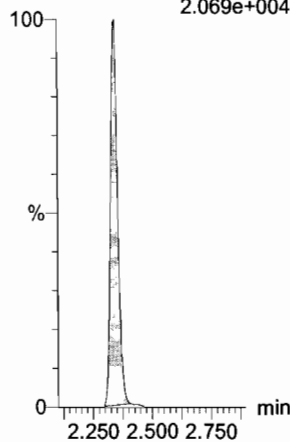
### 13C2-PFOA

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
2.826e+005



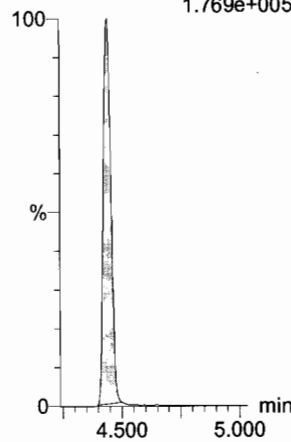
### 13C3-PFBS

F7:MRM of 1 channel,ES-  
302. > 98.8  
2.069e+004



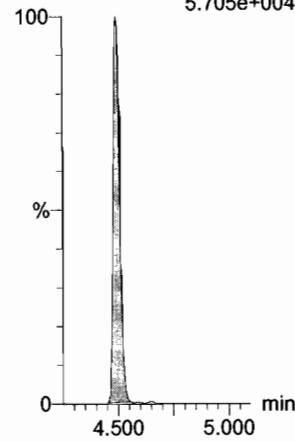
### 13C5-PFNA

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
1.769e+005



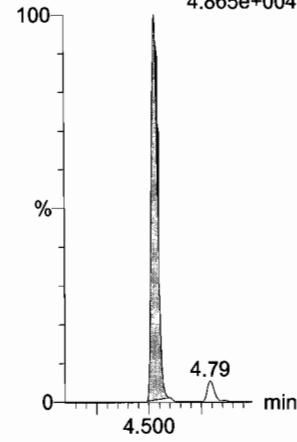
### 13C8-PFOSA

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
5.705e+004



### 13C8-PFOS

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
4.865e+004

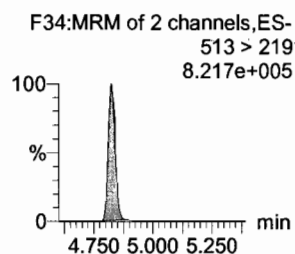
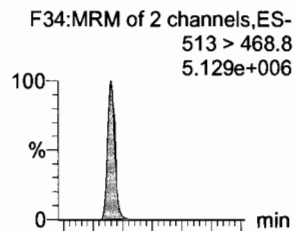


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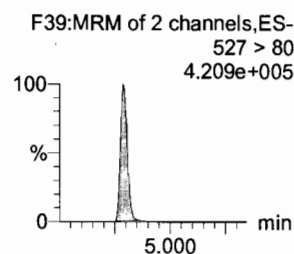
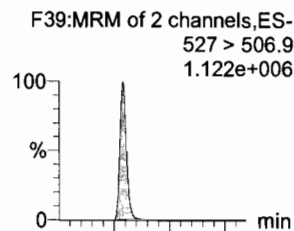
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_10, Date: 31-Oct-2017, Time: 17:38:27, ID: ST171031M1-9 PFC CS6 17J2815, Description: PFC CS6 17J2815

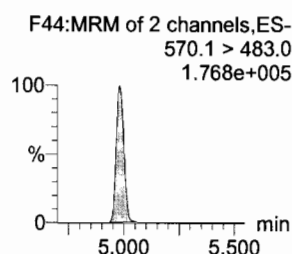
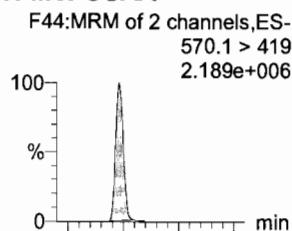
**PFDA**



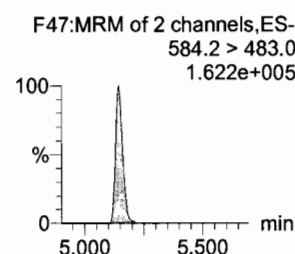
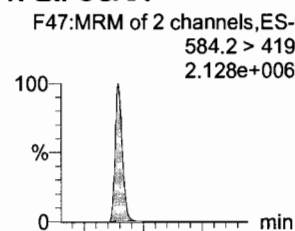
**8:2 FTS**



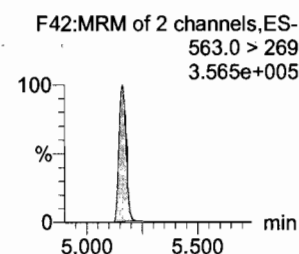
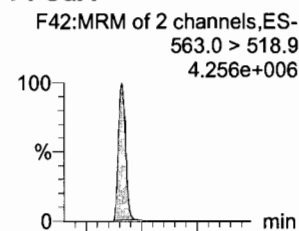
**N-MeFOSAA**



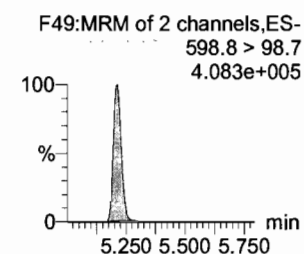
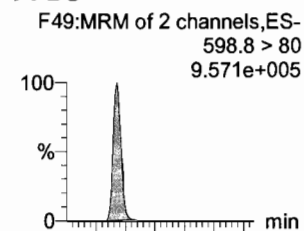
**N-EtFOSAA**



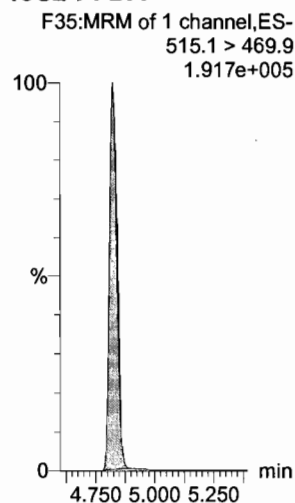
**PFUdA**



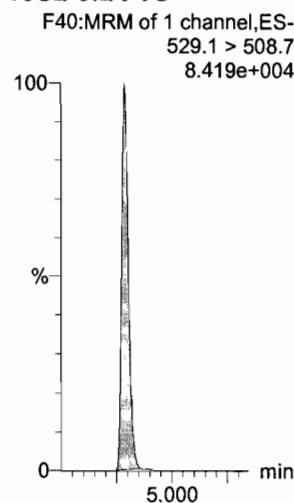
**PFDS**



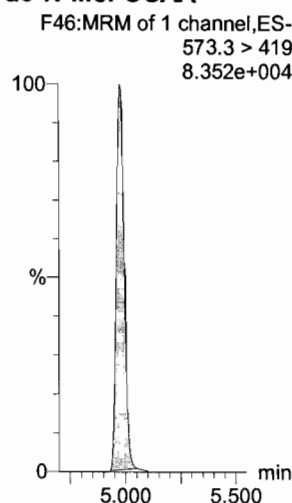
**13C2-PFDA**



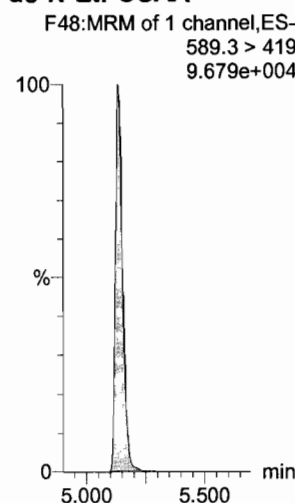
**13C2-8:2 FTS**



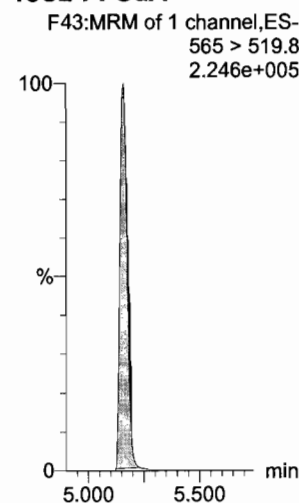
**d3-N-MeFOSAA**



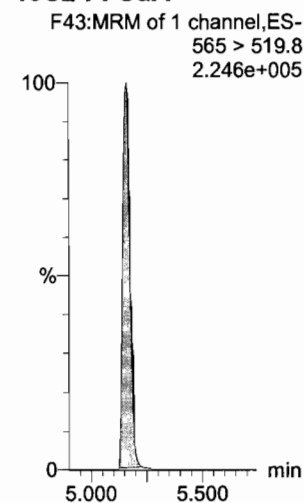
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

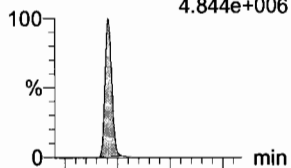
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Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

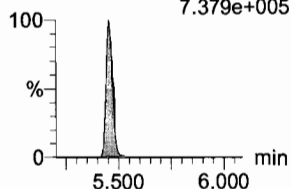
Name: 171031M1\_10, Date: 31-Oct-2017, Time: 17:38:27, ID: ST171031M1-9 PFC CS6 17J2815, Description: PFC CS6 17J2815

**PFDaA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
4.844e+006

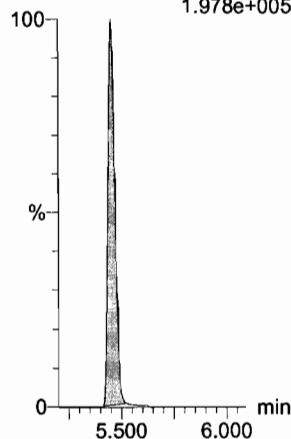


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
7.379e+005



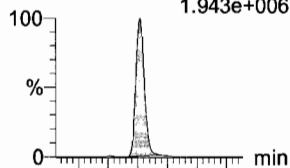
**13C2-PFDaA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
1.978e+005

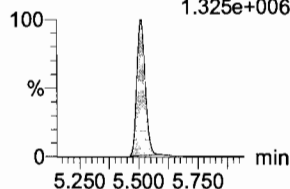


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
1.943e+006

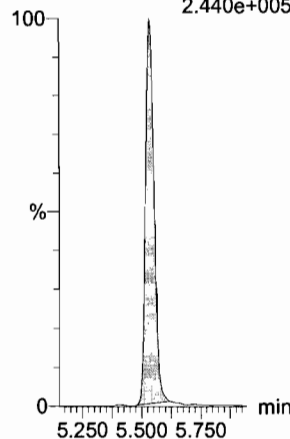


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.325e+006



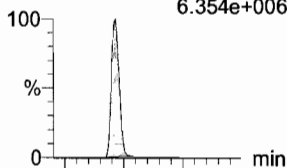
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
2.440e+005

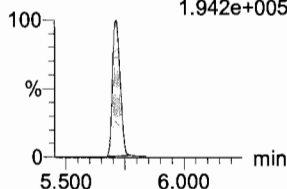


**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
6.354e+006

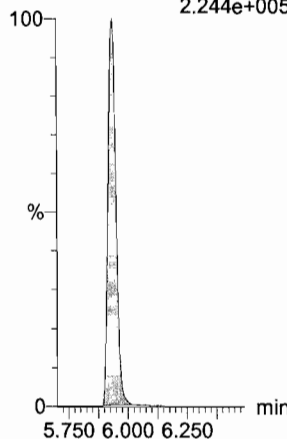


F56:MRM of 2 channels,ES-  
662.9 > 319  
1.942e+005



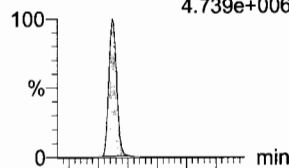
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.244e+005

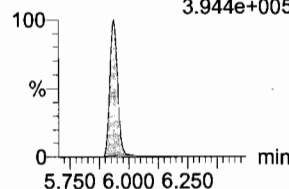


**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
4.739e+006

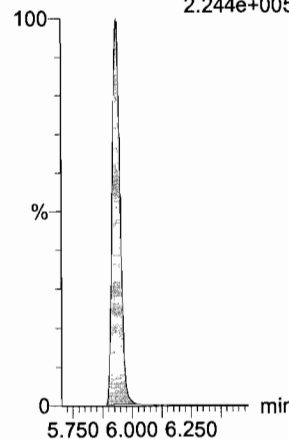


F57:MRM of 2 channels,ES-  
712.9 > 369  
3.944e+005



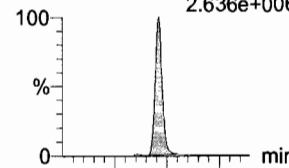
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.244e+005

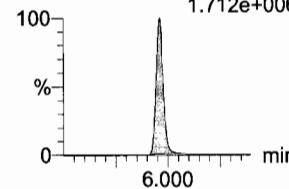


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.636e+006

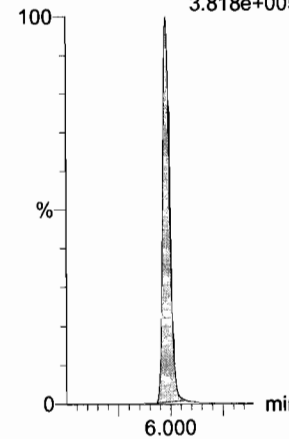


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.712e+006



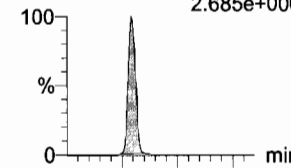
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
3.818e+005

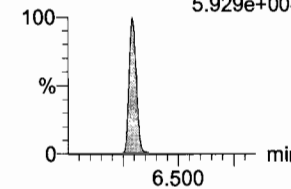


**PFHxDA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
2.685e+006

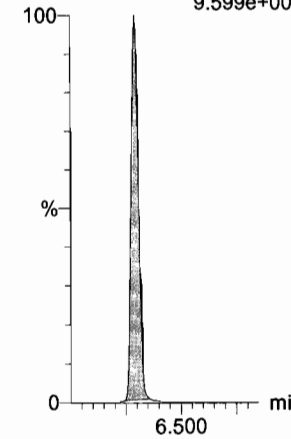


F59:MRM of 2 channels,ES-  
813.1 > 219  
5.929e+004



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
9.599e+004



Dataset: U:\Q4.PRO\results\171031M1\171031M1-CRV.qld

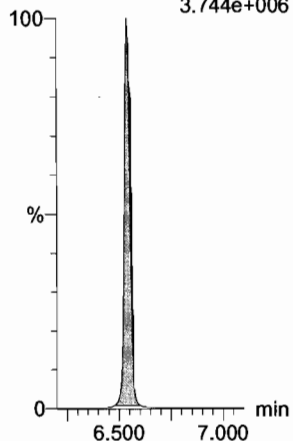
Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

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Name: 171031M1\_10, Date: 31-Oct-2017, Time: 17:38:27, ID: ST171031M1-9 PFC CS6 17J2815, Description: PFC CS6 17J2815

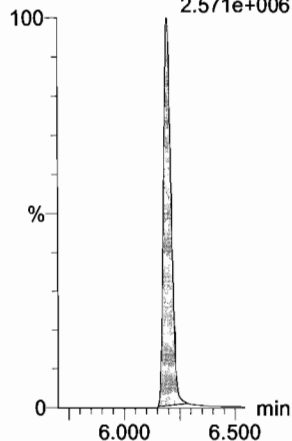
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
3.744e+006



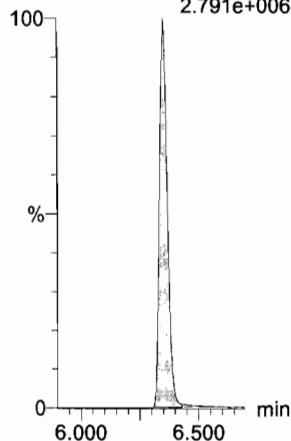
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.571e+006



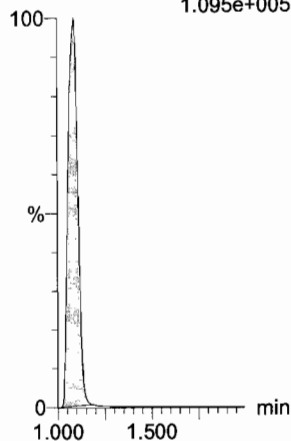
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
2.791e+006



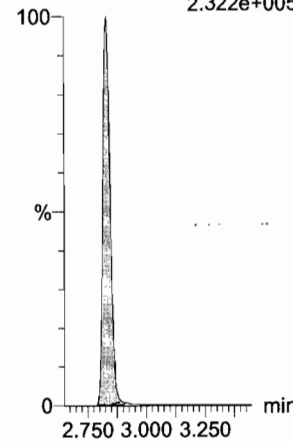
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.095e+005



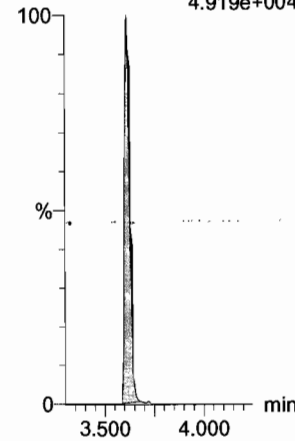
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
2.322e+005



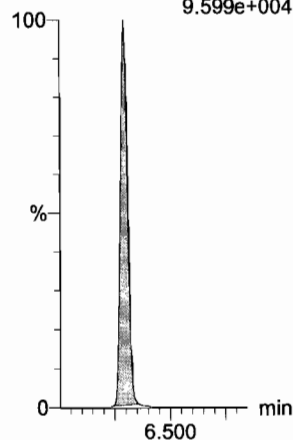
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
4.919e+004



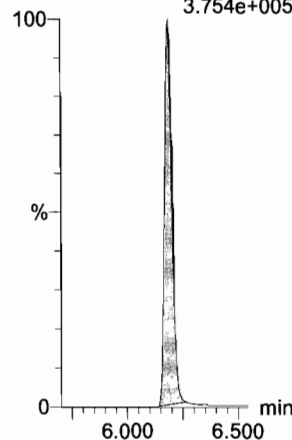
**13C2-PFHxDa**

F60:MRM of 1 channel,ES-  
815 > 769.7  
9.599e+004



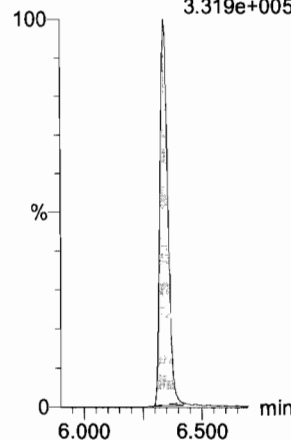
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
3.754e+005



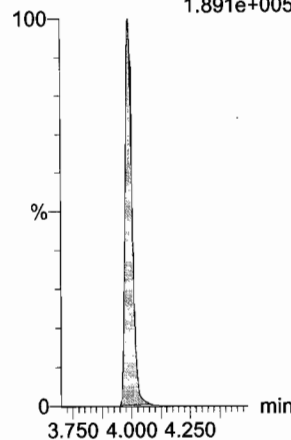
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
3.319e+005



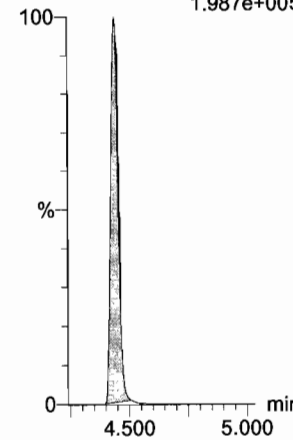
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
1.891e+005



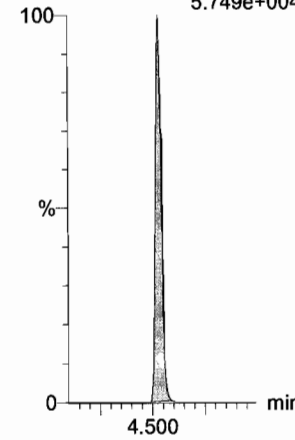
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
1.987e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.749e+004





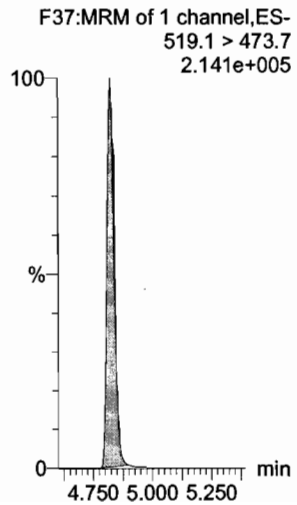
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Last Altered: Wednesday, November 01, 2017 08:21:58 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 08:24:12 Pacific Daylight Time

Name: 171031M1\_10, Date: 31-Oct-2017, Time: 17:38:27, ID: ST171031M1-9 PFC CS6 17J2815, Description: PFC CS6 17J2815

**13C6-PFDA**



Dataset: U:\Q4.PRO\results\171031M1\171031M1-13.qld

Last Altered: Wednesday, November 01, 2017 09:45:32 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 09:46:28 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_102717.mdb 31 Oct 2017 10:25:33

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_10-31-17-FULL\_OLD.cdb 01 Nov 2017 09:42:13

Name: 171031M1\_13, Date: 31-Oct-2017, Time: 18:11:58, ID: ICV171031M1-1 PFC ICV 17J2804, Description: PFC ICV 17J2804

(A) Not in 1W.

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	5.86e3	6.42e3		1.17	1.07	11.4	10.6	106.4
2	2 PFPeA	263.1 > 218.9	5.61e3	6.88e3		2.15	2.04	10.2	10.6	106.3
3	3 PFBS	299.0 > 79.7	1.18e3	8.03e2		2.44	2.34	18.3	9.00	90.0
4	4 PFHxA	313.2 > 268.9	8.16e3	2.61e3		2.93	2.83	15.6	11.0	110.0
5	5 PFHpA	363.0 > 318.9	6.90e3	6.33e3		3.56	3.46	13.6	10.5	104.6
6	6 L-PFHxS	398.9 > 79.6	1.08e3	6.24e2		3.71	3.62	21.7	10.7	106.9
7	8 6:2 FTS	427.1 > 407	1.45e3	1.69e3		4.03	3.93	10.8	11.5	114.5
8	9 L-PFOA	413 > 368.7	7.12e3	8.26e3		4.05	3.99	10.8	11.1	110.8
9	11 PFHpS	449 > 80.0	1.11e3	8.26e3		4.20	4.11	1.67	9.11	91.1
10	12 PFNA	463.0 > 418.8	7.68e3	7.22e3		4.55	4.44	13.3	10.6	106.3
11	13 PFOSA	498.1 > 77.8	1.57e3	1.96e3		4.59	4.50	10.0	9.30	93.0
12	14 L-PFOS	499 > 79.9	1.45e3	1.91e3		4.63	4.53	9.47	9.35	93.5
13	16 PFDA	513 > 468.8	8.14e3	8.46e3		4.92	4.82	12.0	9.37	93.7
14	17 8:2 FTS	527 > 506.9	1.55e3	1.73e3		4.89	4.79	11.2	7.82	78.2
15	18 N-MeFOSAA	570.1 > 419	5.21e3	3.88e3		5.08	4.98	16.8	11.6	115.8
16	19 N-EtFOSAA	584.2 > 419	3.42e3	4.22e3		5.24	5.14	10.1	8.63	86.3
17	20 PFUDA	563.0 > 518.9	7.42e3	9.78e3		5.25	5.16	9.48	9.78	97.8
18	21 PFDS	598.8 > 80	1.54e3	9.78e3		5.31	5.21	1.97	8.88	88.8
19	22 PFDoA	612.9 > 569.0	1.00e4	9.72e3		5.55	5.45	12.9	10.5	104.6
20	23 N-MeFOSA	512.1 > 168.9		1.09e4		5.56				
21	24 PFTDA	662.9 > 618.9	9.70e3	9.72e3		5.80	5.71	12.5	9.75	97.5
22	25 PFTeDA	712.9 > 668.8	1.04e4	8.57e3		6.02	5.94	15.2	11.8	118.4
23	26 N-EtFOSA	526.1 > 168.9		1.71e4		6.01				
24	27 PFHxDA	813.1 > 768.6		3.83e3		6.32				
25	28 PFODA	913.1 > 868.8		3.83e3		6.61				
26	29 N-MeFOSE	616.1 > 58.9		1.63e4		6.23				
27	30 N-EtFOSE	630.1 > 58.9		1.50e4		6.39				
28	31 13C3-PFBA	216.1 > 171.8	6.42e3	6.90e3	0.949	1.17	1.07	11.6	12.3	98.1
29	32 13C3-PFPeA	266. > 221.8	6.88e3	8.91e3	0.781	2.15	2.04	9.65	12.3	98.8
30	33 13C3-PFBS	302. > 98.8	8.03e2	8.91e3	0.089	2.44	2.34	1.13	12.7	101.8
31	Work Order 171031M1-13 Revision 1	315 > 269.8	2.61e3	8.91e3	0.755	2.93	2.83	3.66	4.85	97.0

70-130

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11/01/2017

50-150

Dataset: U:\Q4.PRO\results\171031M1\171031M1-13.qld

Last Altered: Wednesday, November 01, 2017 09:45:32 Pacific Daylight Time

Printed: Wednesday, November 01, 2017 09:46:28 Pacific Daylight Time

Name: 171031M1\_13, Date: 31-Oct-2017, Time: 18:11:58, ID: ICV171031M1-1 PFC ICV 17J2804, Description: PFC ICV 17J2804

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	6.33e3	8.91e3	0.711	3.56	3.46	8.88	12.5	99.9
33	36 18O2-PFHxS	403.0 > 102.6	6.24e2	1.65e3	0.423	3.71	3.61	4.73	11.2	89.3
34	37 13C2-6:2 FTS	429.1 > 408.9	1.69e3	6.53e3	0.286	4.03	3.93	3.23	11.3	90.5
35	38 13C2-PFOA	414.9 > 369.7	8.26e3	6.53e3	1.310	4.05	3.99	15.8	12.1	96.6
36	39 13C5-PFNA	468.2 > 422.9	7.22e3	7.70e3	0.979	4.55	4.44	11.7	12.0	95.8
37	40 13C8-PFOSA	506.1 > 77.7	1.96e3	9.19e3	0.207	4.59	4.49	2.67	12.9	103.3
38	41 13C8-PFOS	507.0 > 79.9	1.91e3	2.02e3	1.072	4.63	4.53	11.8	11.1	88.4
39	42 13C2-PFDA	515.1 > 469.9	8.46e3	8.09e3	1.014	4.92	4.82	13.1	12.9	103.1
40	43 13C2-8:2 FTS	529.1 > 508.7	1.73e3	8.09e3	0.216	4.89	4.79	2.67	12.4	98.9
41	44 d3-N-MeFOSAA	573.3 > 419	3.88e3	9.19e3	0.368	5.08	4.98	5.28	14.3	114.8
42	45 d5-N-EtFOSAA	589.3 > 419	4.22e3	9.19e3	0.389	5.24	5.14	5.74	14.8	118.3
43	46 13C2-PFUDa	565 > 519.8	9.78e3	9.19e3	0.983	5.25	5.16	13.3	13.5	108.2
44	47 13C2-PFDoA	615.0 > 569.7	9.72e3	9.19e3	0.997	5.55	5.45	13.2	13.3	106.0
45	48 d3-N-MeFOSA	515.2 > 168.9	1.09e4	9.19e3	0.096	5.56	5.54	14.8	155	103.2
46	49 13C2-PFTeDA	714.8 > 669.6	8.57e3	9.19e3	1.039	6.02	5.94	11.7	11.2	89.7
47	50 d5-N-ETFOSA	531.1 > 168.9	1.71e4	9.19e3	0.144	6.01	5.98	23.2	161	107.5
48	51 13C2-PFHxDA	815 > 769.7	3.83e3	9.19e3	1.032	6.32	6.29	5.21	5.05	101.0
49	52 d7-N-MeFOSE	623.1 > 58.9	1.63e4	9.19e3	0.133	6.23	6.19	22.2	167	111.4
50	53 d9-N-EtFOSE	639.2 > 58.8	1.50e4	9.19e3	0.128	6.39	6.34	20.4	160	106.6
51	54 13C4-PFBA	217. > 171.8	6.90e3	6.90e3	1.000	1.17	1.07	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	8.91e3	8.91e3	1.000	2.93	2.83	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	1.65e3	1.65e3	1.000	3.71	3.62	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	6.53e3	6.53e3	1.000	4.05	3.99	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	7.70e3	7.70e3	1.000	4.55	4.44	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	2.02e3	2.02e3	1.000	4.63	4.53	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.09e3	8.09e3	1.000	4.92	4.82	12.5	12.5	100.0
58	61 13C7-PFUDa	570.1 > 524.8	9.19e3	9.19e3	1.000	5.25	5.16	12.5	12.5	100.0

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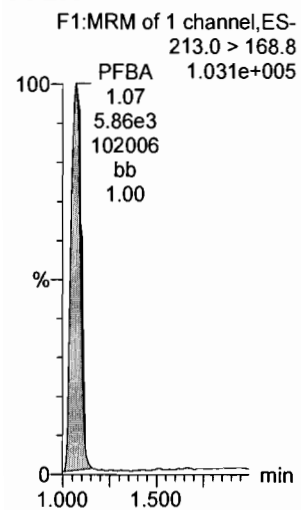
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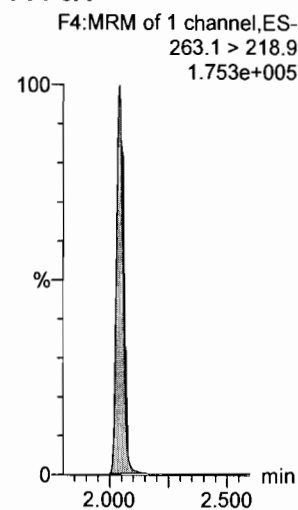
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Name: 171031M1\_13, Date: 31-Oct-2017, Time: 18:11:58, ID: ICV171031M1-1 PFC ICV 17J2804, Description: PFC ICV 17J2804

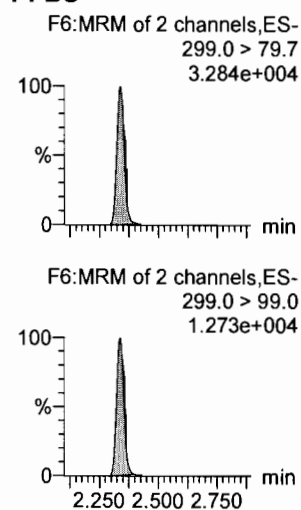
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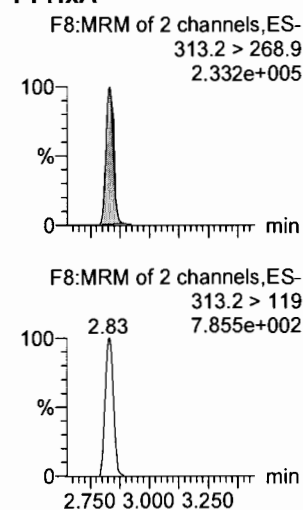
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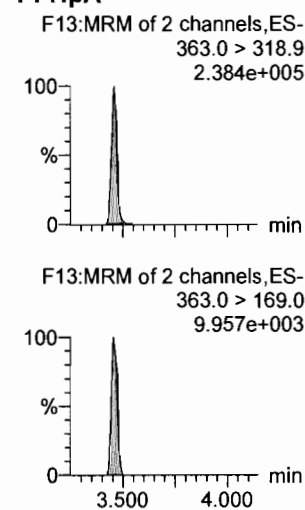
**PFBS**



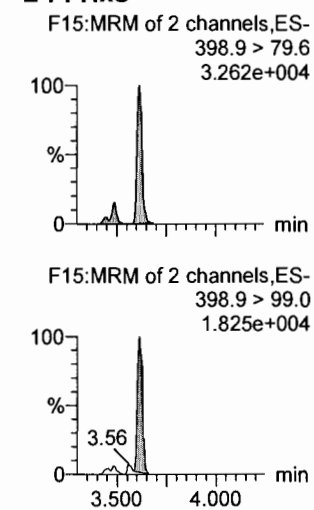
**PFHxA**



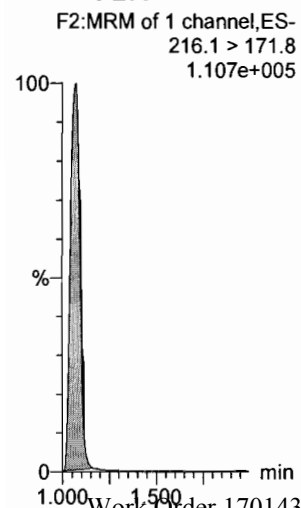
**PFHpA**



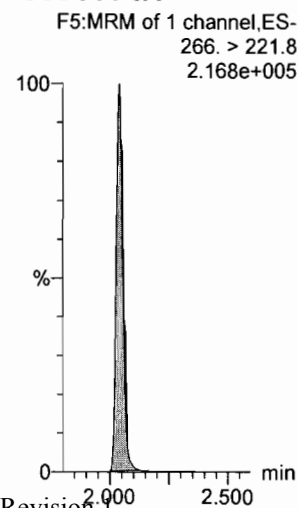
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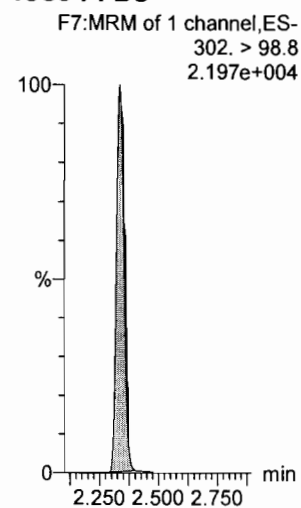
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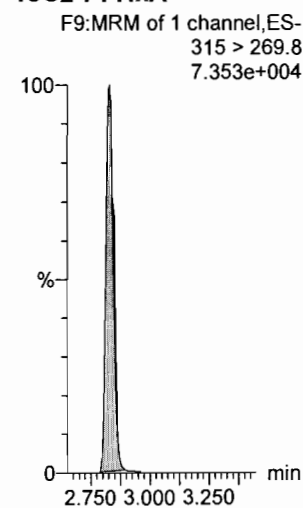
**13C3-PFPeA**



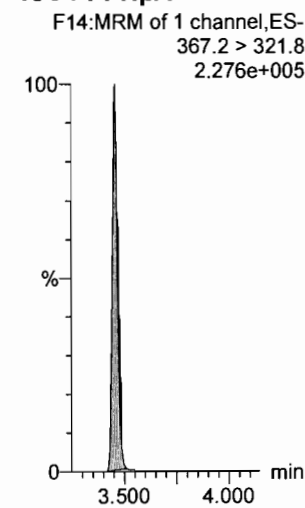
**13C3-PFBS**



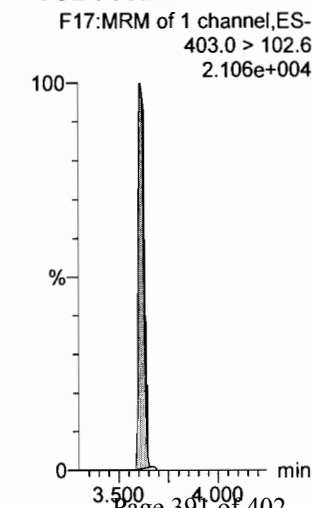
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

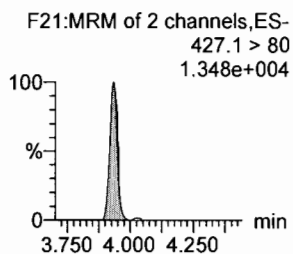
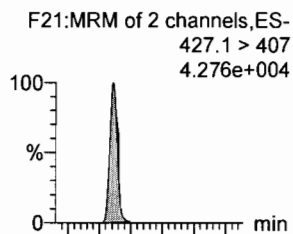


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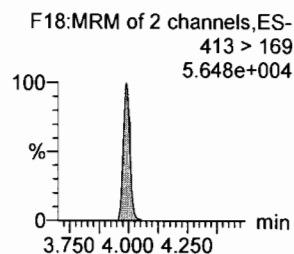
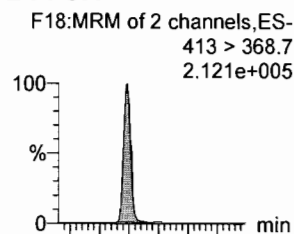
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Printed: Wednesday, November 01, 2017 09:46:28 Pacific Daylight Time

Name: 171031M1\_13, Date: 31-Oct-2017, Time: 18:11:58, ID: ICV171031M1-1 PFC ICV 17J2804, Description: PFC ICV 17J2804

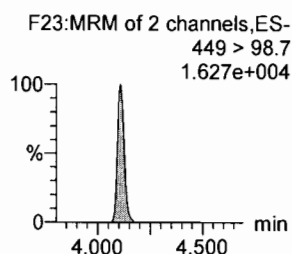
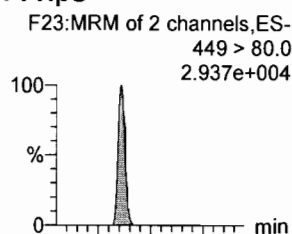
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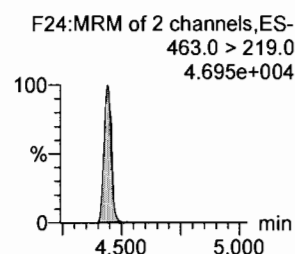
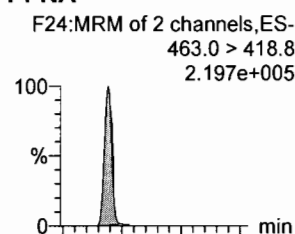
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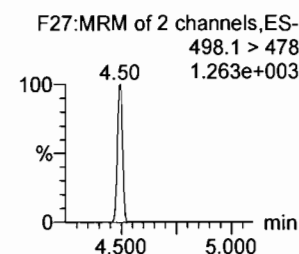
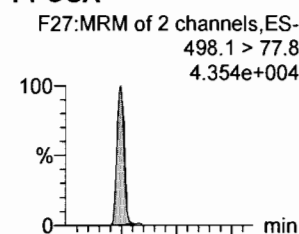
### PFHpS



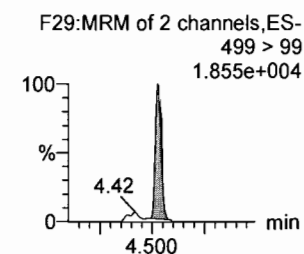
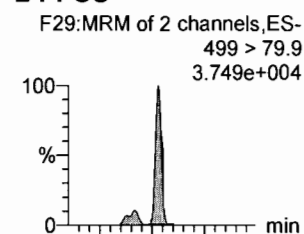
### PFNA



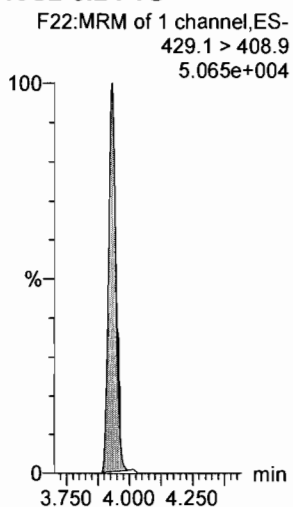
### PFOSA



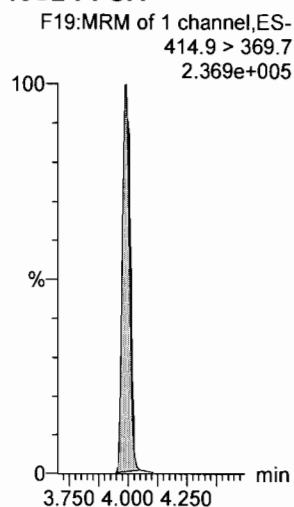
### L-PFOS



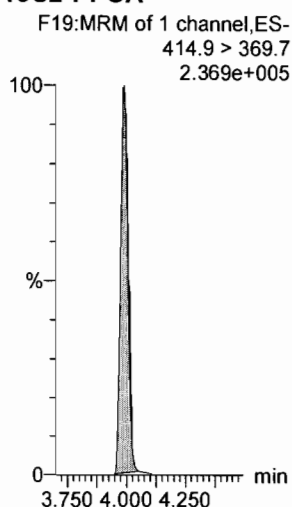
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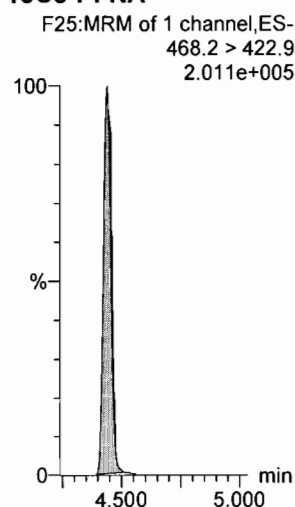
### 13C2-PFOA



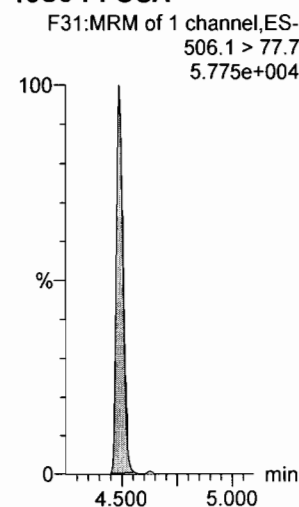
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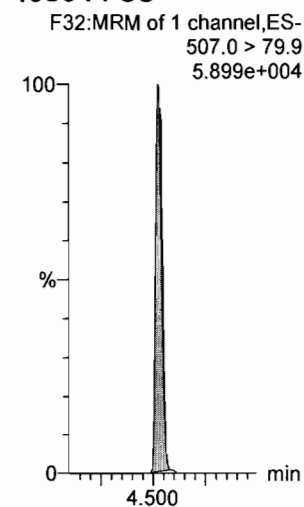
### 13C5-PFNA



### 13C8-PFOSA



### 13C8-PFOS



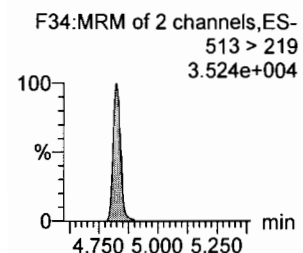
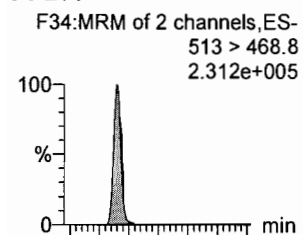
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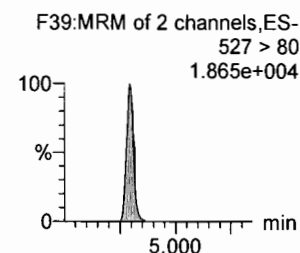
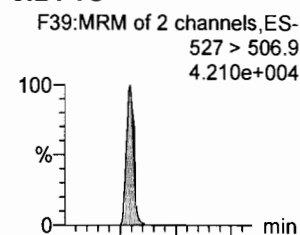
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Name: 171031M1\_13, Date: 31-Oct-2017, Time: 18:11:58, ID: ICV171031M1-1 PFC ICV 17J2804, Description: PFC ICV 17J2804

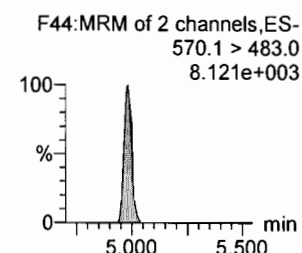
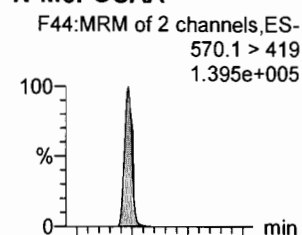
**PFDA**



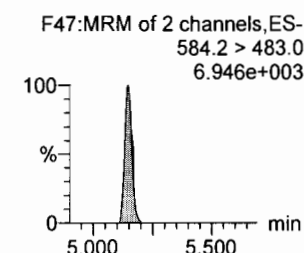
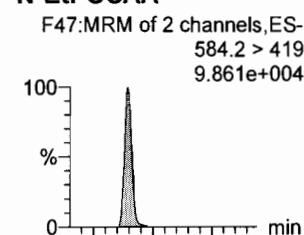
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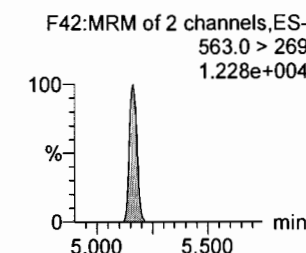
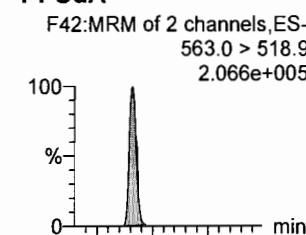
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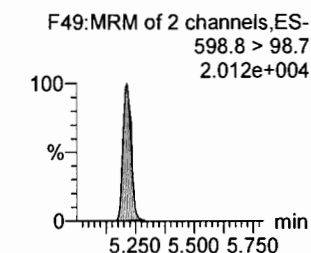
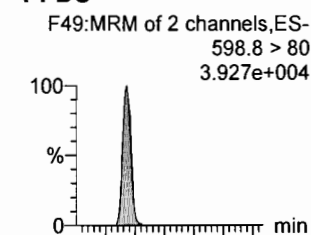
**N-EtFOSAA**



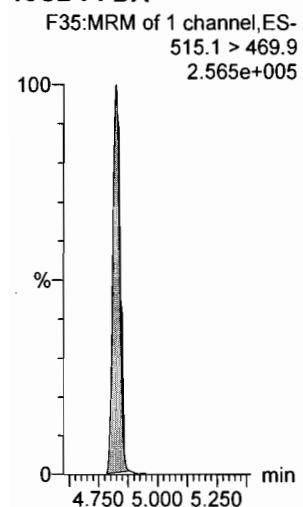
**PFUdA**



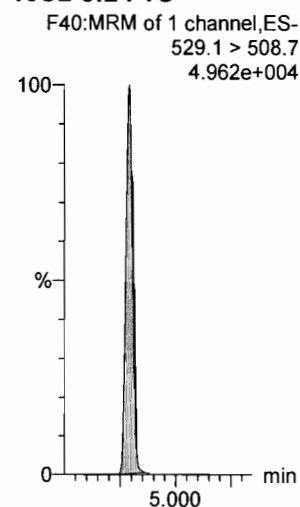
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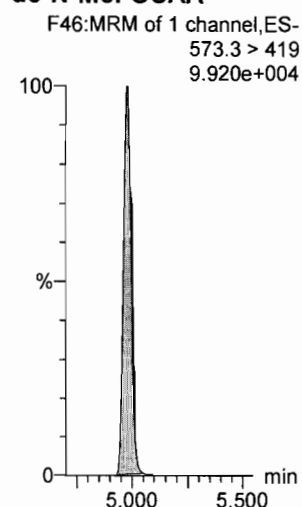
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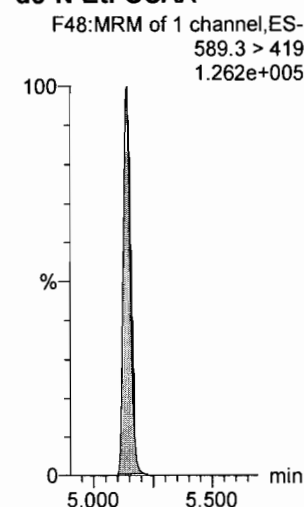
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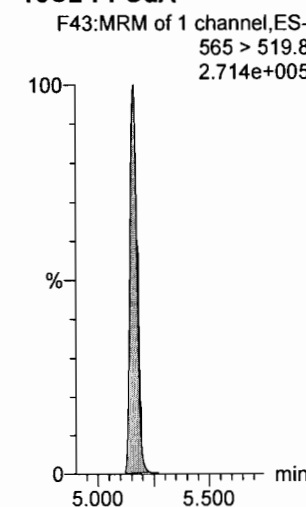
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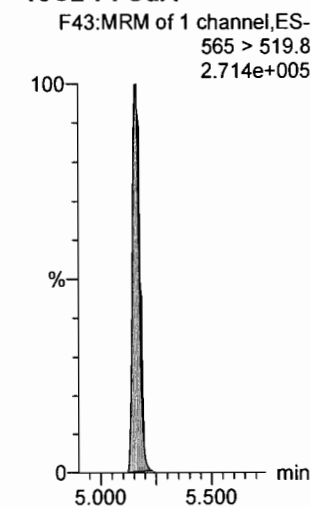
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**13C2-PFUdA**



**13C2-PFUdA**

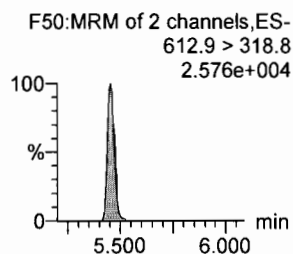
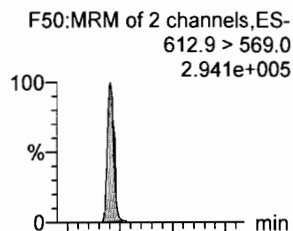


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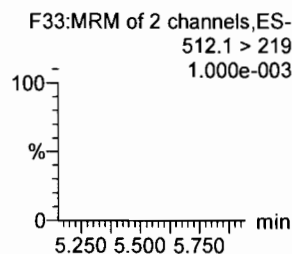
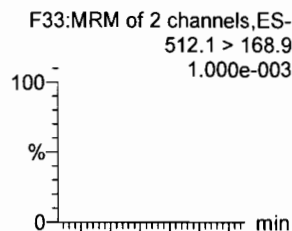
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Printed: Wednesday, November 01, 2017 09:46:28 Pacific Daylight Time

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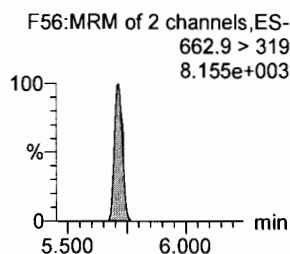
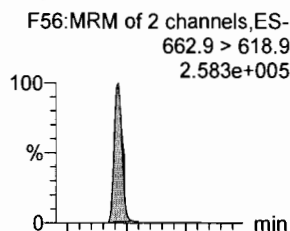
**PFD<sub>o</sub>A**



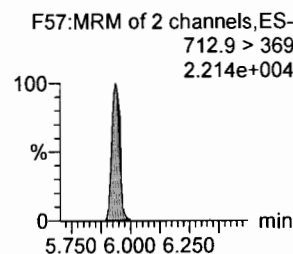
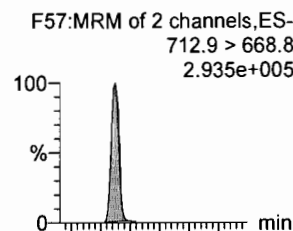
**N-MeFOSA**



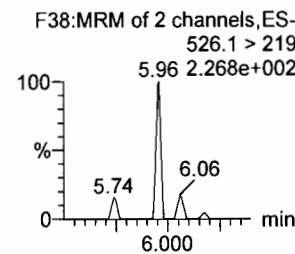
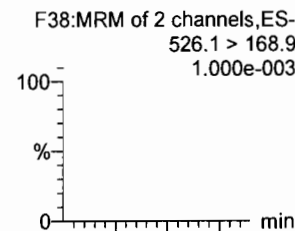
**PFT<sub>r</sub>DA**



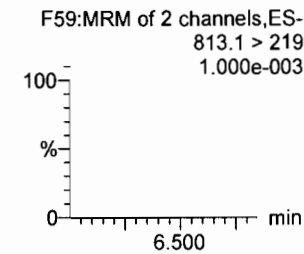
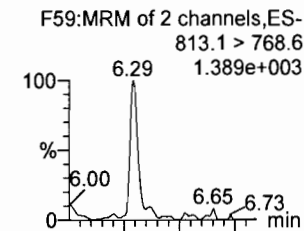
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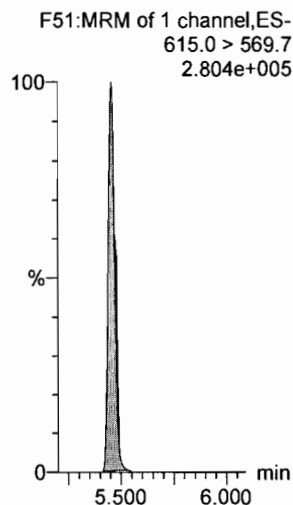
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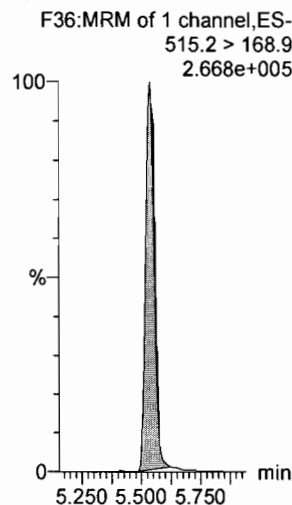
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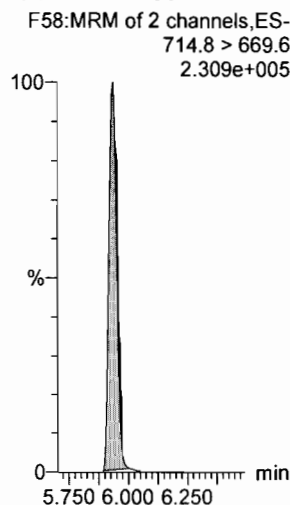
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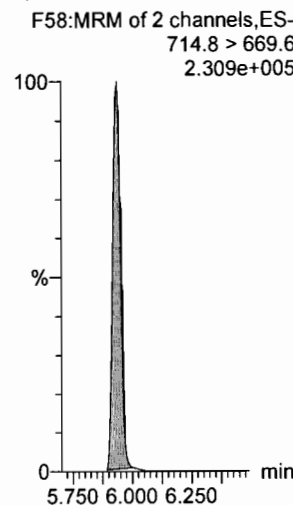
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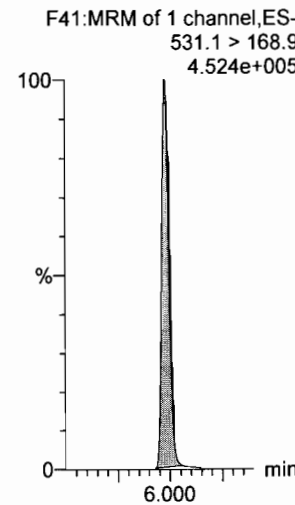
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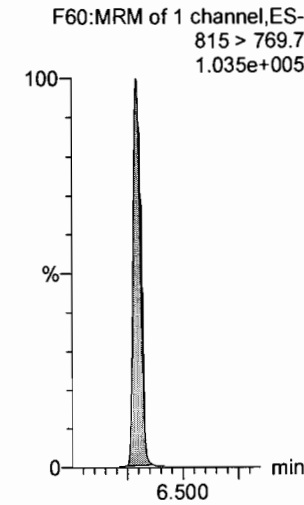
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**d5-N-ETFOSA**



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



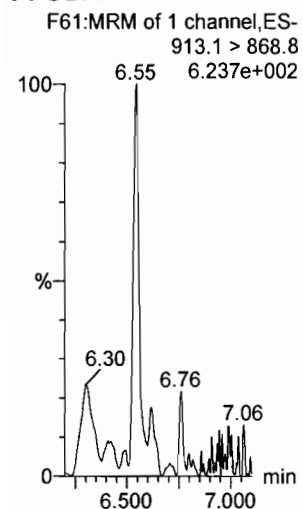
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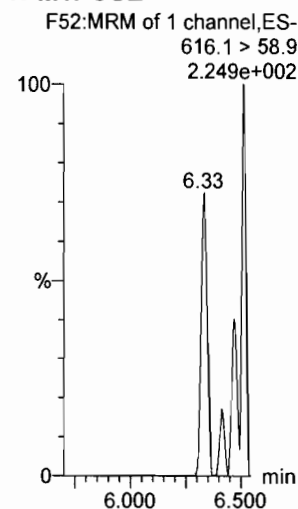
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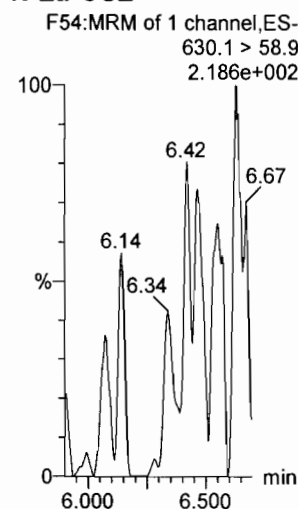
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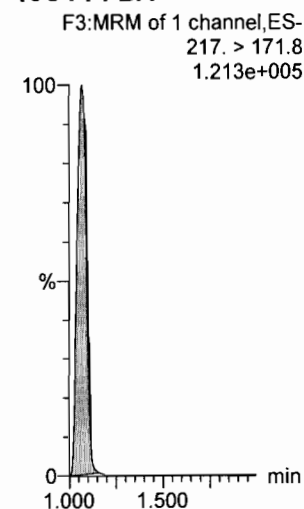
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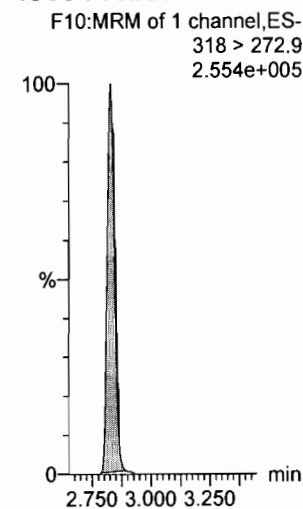
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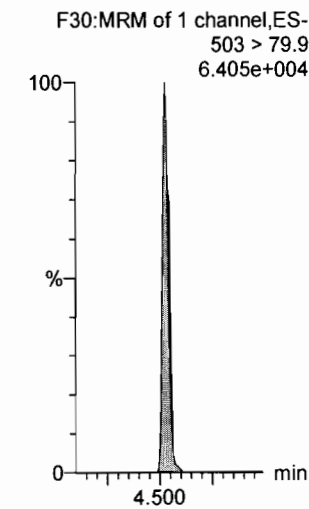
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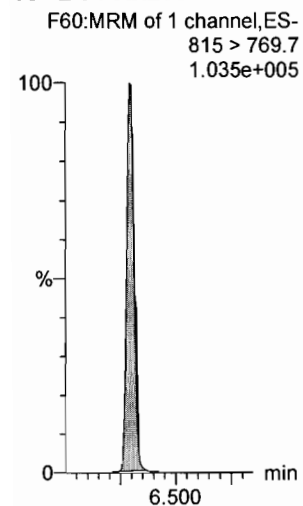
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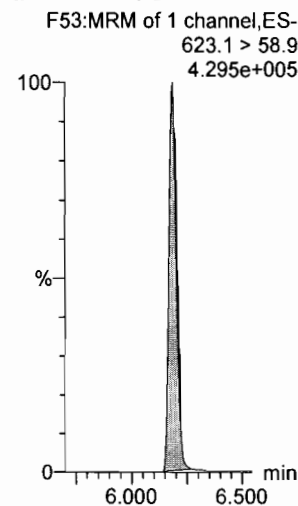
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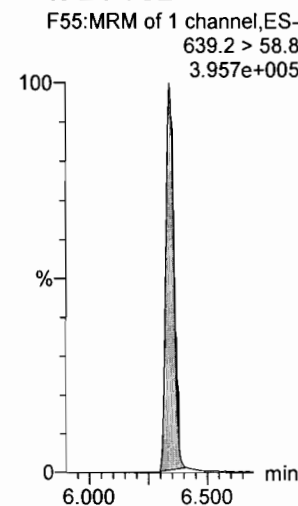
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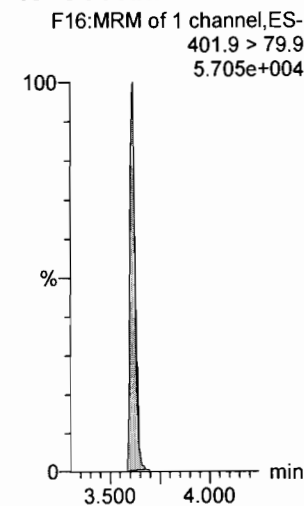
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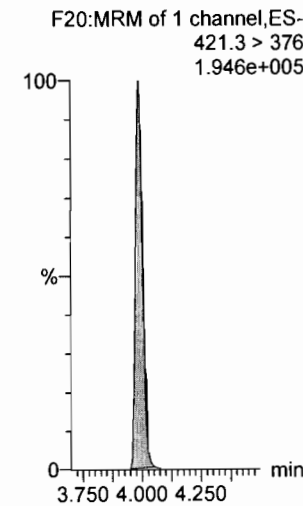
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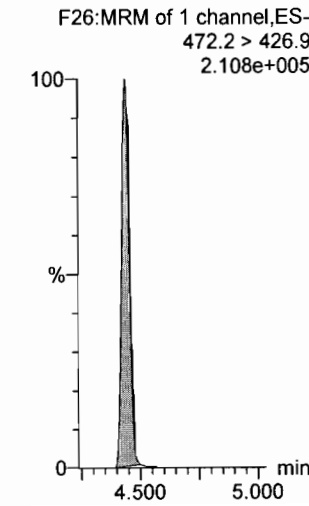
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**13C8-PFOA**



**13C9-PFNA**



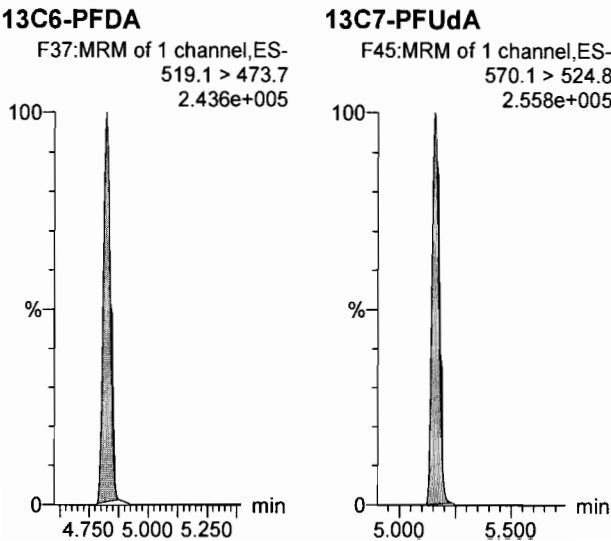


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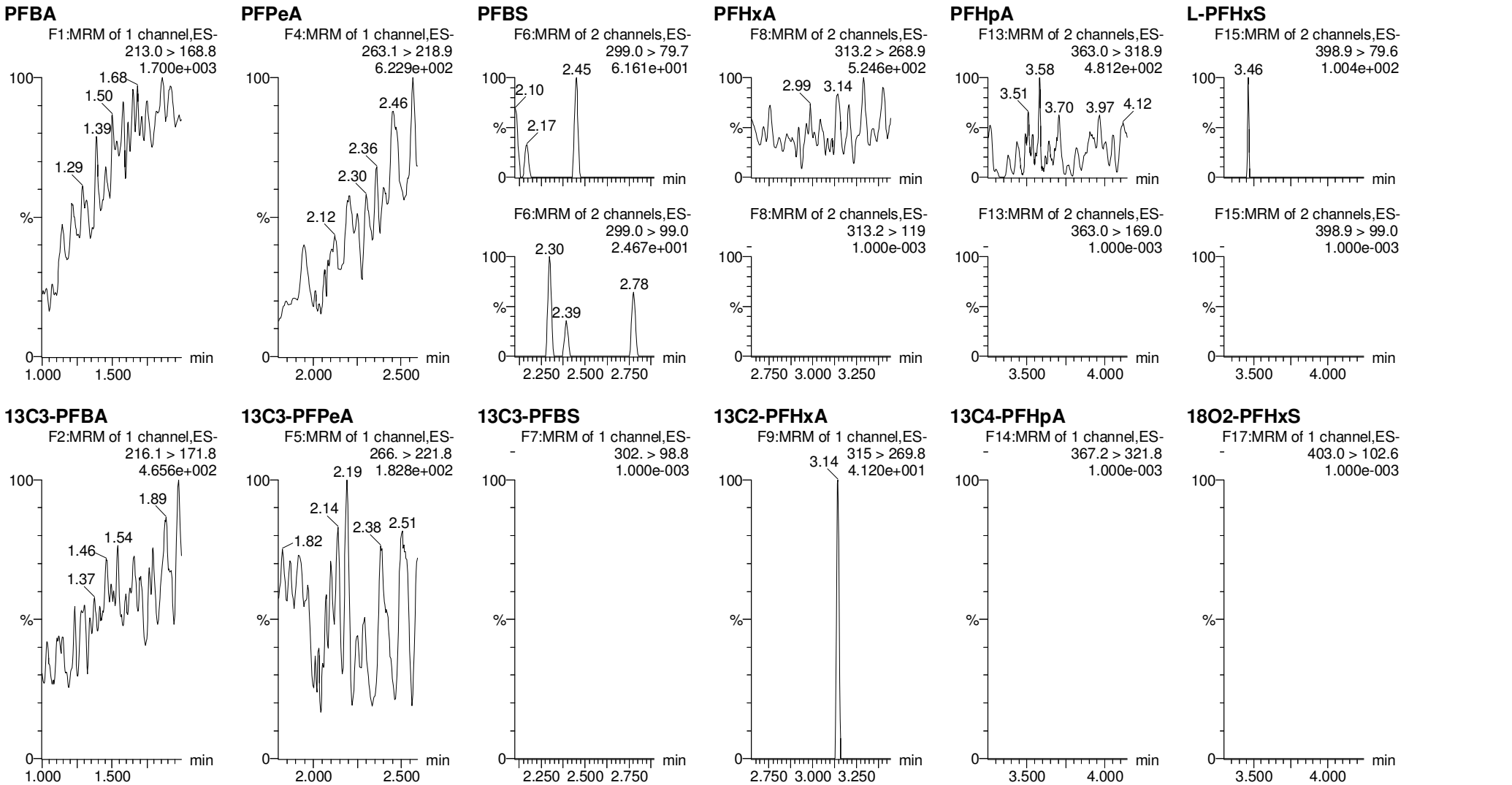


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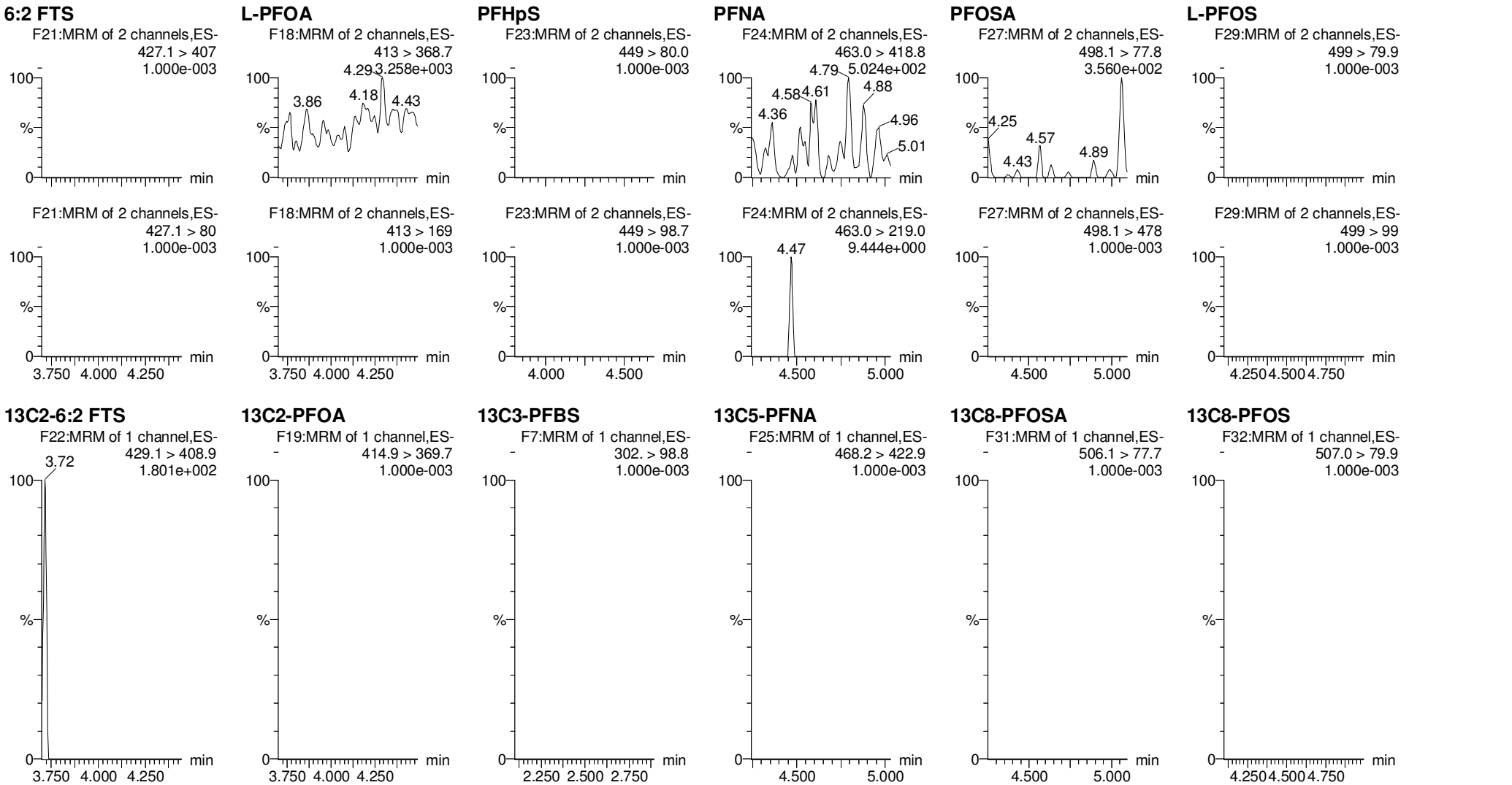


Vista Analytical Laboratory

Dataset:       Untitled

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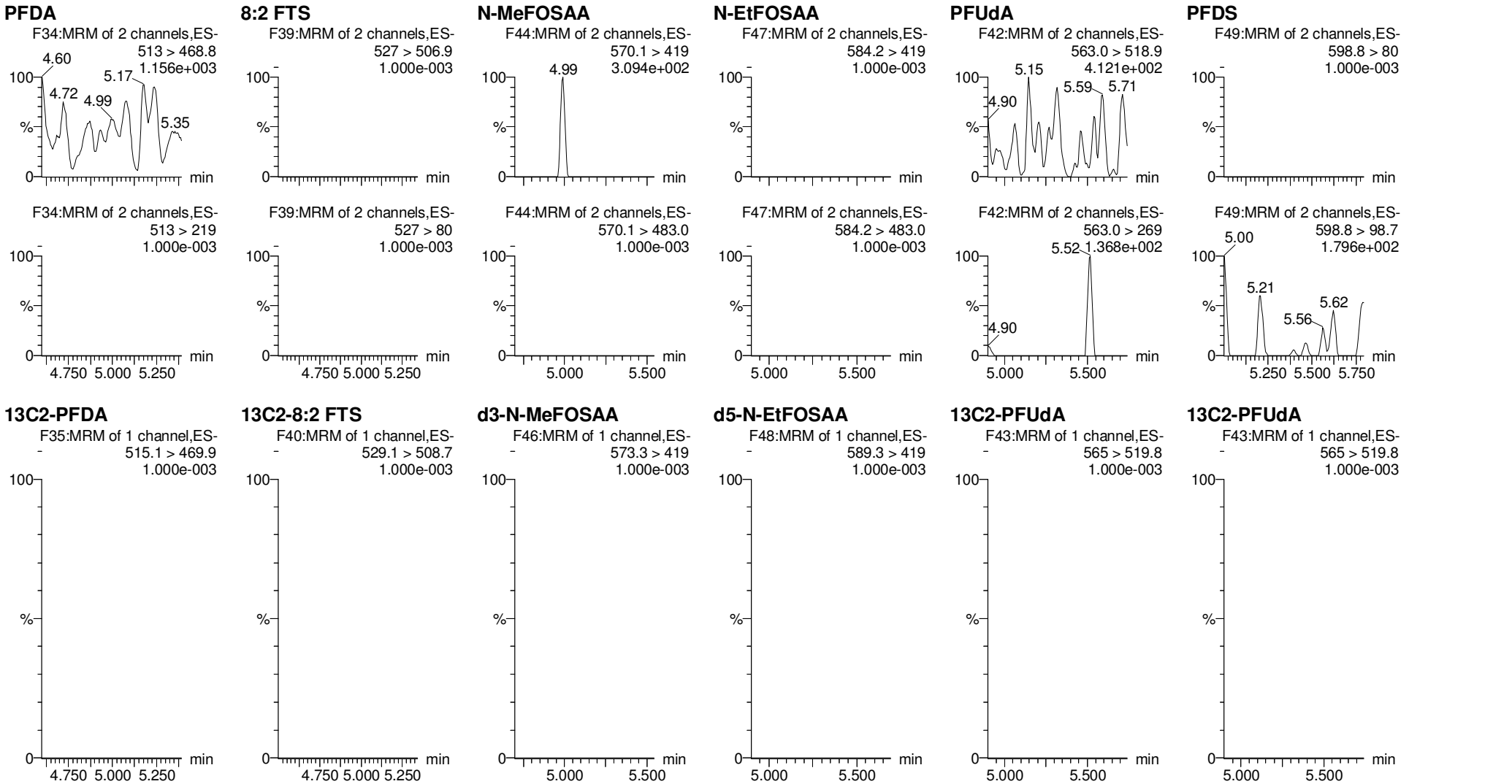


Vista Analytical Laboratory

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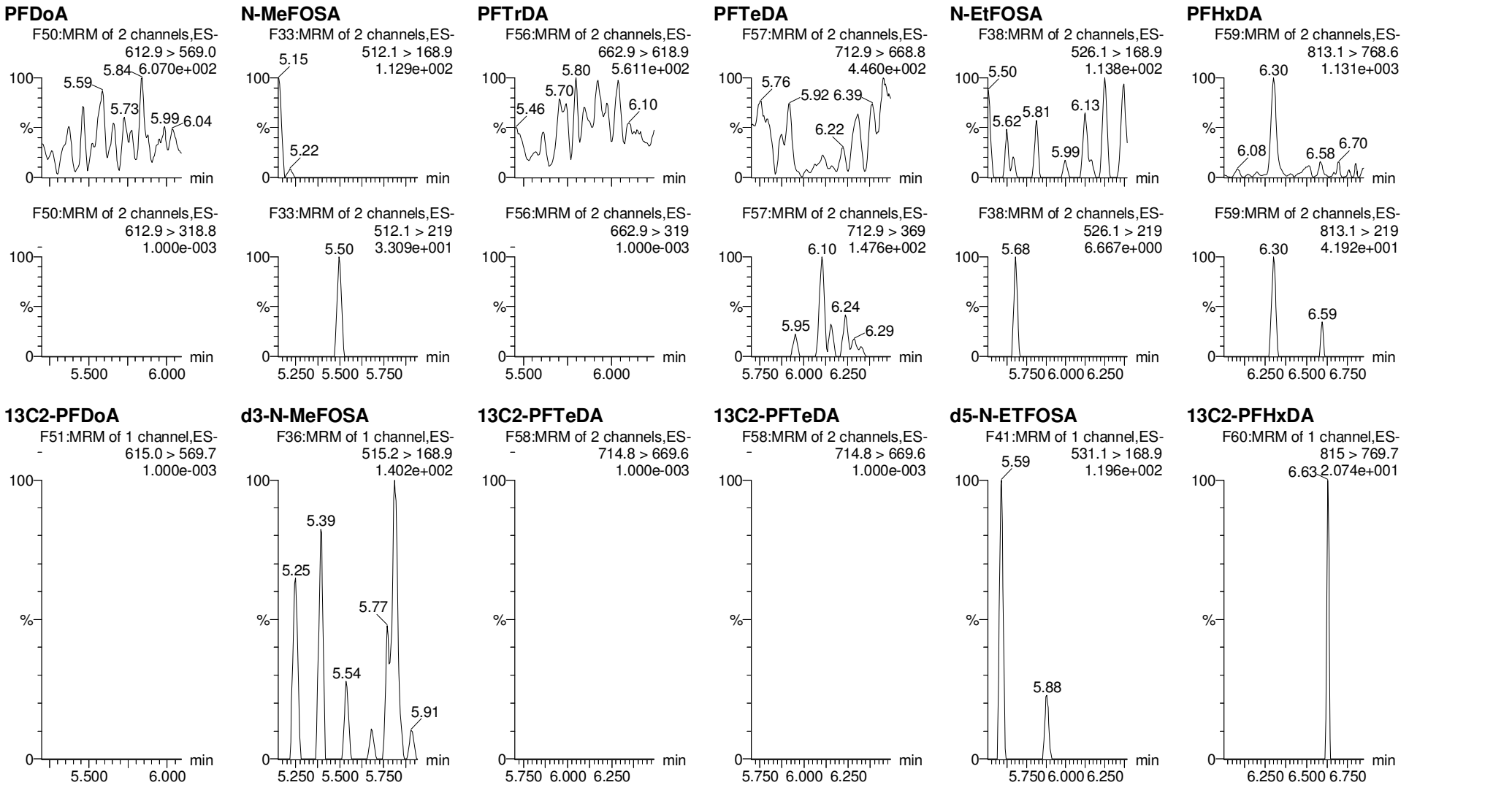


Vista Analytical Laboratory

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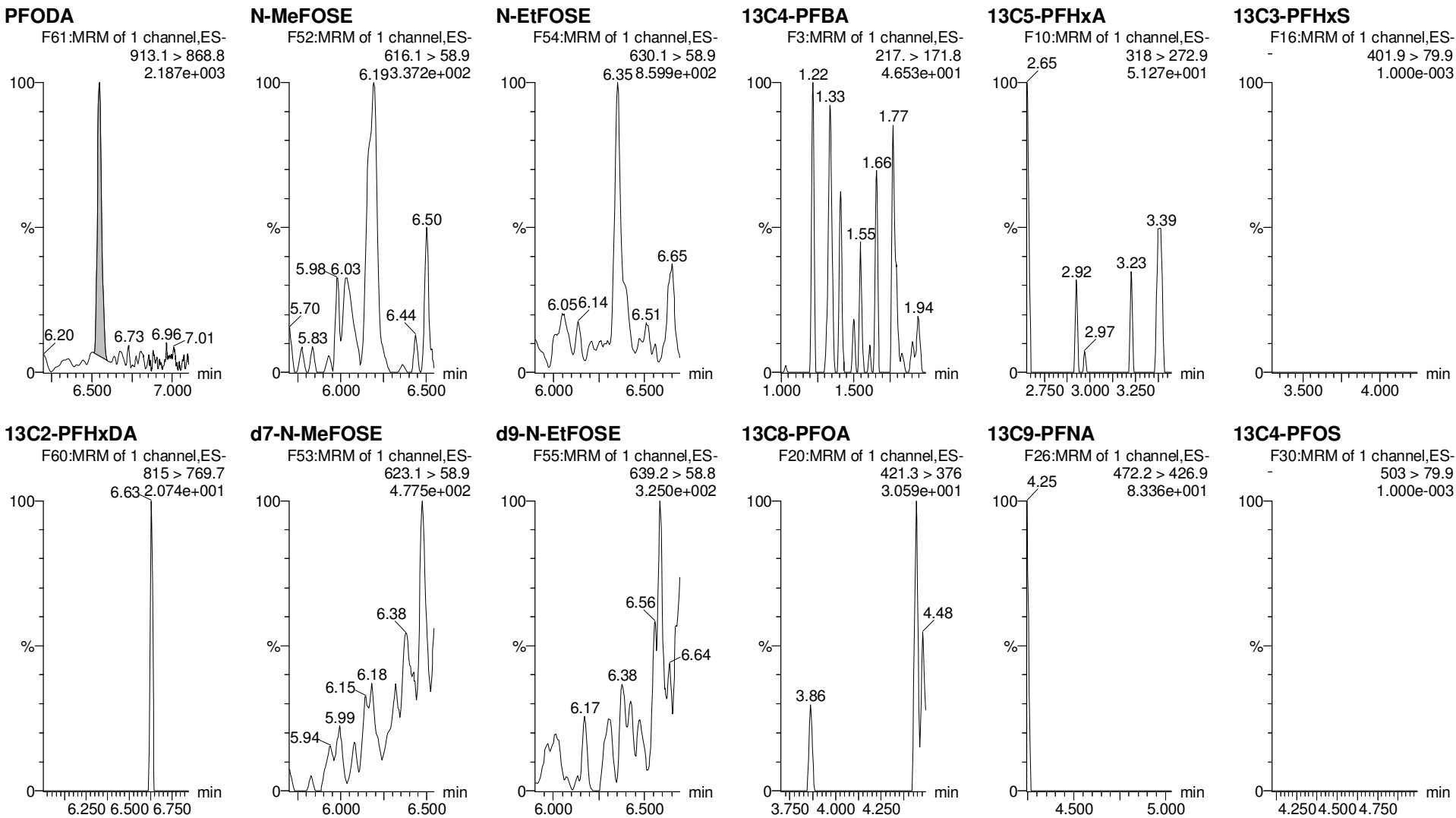


Vista Analytical Laboratory

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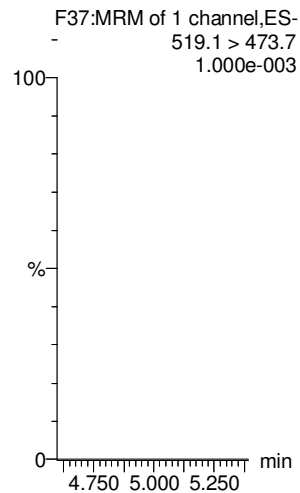
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**Name: 171031M1\_12, Date: 31-Oct-2017, Time: 18:00:47, ID: IPA, Description: IPA**

**13C6-PFDA**



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"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID (PFHPA)","0.191","","TRG","Yes","Y","","Y","0.000618","0.00521","0.00836","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/31/17","18:34","N","NA","DL1","355-46-4","PERFLUOROHEXANESULFONIC ACID (PFHXS)","3.49","","TRG","Yes","Y","D","Y","0.00495","0.0260","0.0418","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/31/17","18:34","N","NA","DL1","335-67-1","PERFLUOROOCTANOIC ACID (PFOA)","3.62","","TRG","Yes","Y","D","Y","0.00340","0.0260","0.0418","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","1763-23-1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION","0.230","","TRG","Yes","Y","","Y","0.000843","0.00521","0.00836","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","375-95-1","PERFLUORONONANOIC ACID (PFNA)","0.00108","","TRG","Yes","Y","J","Y","0.000847","0.00521","0.00836","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","335-76-2","PERFLUORODECANOIC ACID (PFDA)","","","TRG","Yes","N","U","Y","0.00156","0.00521","0.00836","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","754-91-6","PFOSA","","","TRG","Yes","N","U","Y","0.00185","0.00521","0.00836","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","2355-31-9","MeFOSAA","","","TRG","Yes","N","U","Y","0.00172","0.00521","0.00836","UG\_L","UG\_L","","","","","","","50","150","","",""

"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","335-77-3","PFDS","","","TRG","Yes","N","U","Y","0.00129","0.00521","0.00836","UG\_L","UG\_L","","","","","","","50","150","","",""



"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","13C2-PFUnA","13C2-PFUnA","77.8","","IS","Yes","Y","","Y","","","PCT\_REC","","","100","77.8","77.8","","","50","150","  
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","  
"  
"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","d5-EtFOSAA","d5-EtFOSAA","85.8","","IS","Yes","Y","","Y","","","PCT\_REC","","","100","85.8","85.8","","","50","150"  
","  
","  
"  
"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","13C2-PFDoA","13C2-PFDoA","89.1","","IS","Yes","Y","","Y","","","PCT\_REC","","","100","89.1","89.1","","","50","150","  
","  
","  
"  
"Site 4-GW-04GW01-20171006","537\_MOD","10/27/17","19:35","N","NA","000","13C2-PFTeDA","13C2-PFTeDA","103","","IS","Yes","Y","","Y","","","PCT\_REC","","","100","103","103","","","50","150","  
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","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","375-22-4","PFBA","","","TRG","Yes","N","U","Y","0.000763","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","2706-90-3","PFPeA","","","TRG","Yes","N","U","Y","0.00134","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","375-73-5","PFBS","","","TRG","Yes","N","U","Y","0.00187","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","307-24-4","PERFLUOROHEXANOIC ACID (PFHXA)","","","TRG","Yes","N","U","Y","0.00228","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID (PFHPA)","","","TRG","Yes","N","U","Y","0.000618","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","355-46-4","PERFLUOROHEXANESULFONIC ACID (PFHXS)","","","TRG","Yes","N","U","Y","0.000991","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","335-67-1","PERFLUOROOCTANOIC ACID (PFOA)","","","TRG","Yes","N","U","Y","0.000681","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","1763-23-1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION","","","TRG","Yes","N","U","Y","0.000844","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","375-95-1","PERFLUORONONANOIC ACID (PFNA)","","","TRG","Yes","N","U","Y","0.000847","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","335-76-2","PERFLUORODECANOIC ACID (PFDA)","","","TRG","Yes","N","U","Y","0.00156","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","754-91-6","PFOSA","","","TRG","Yes","N","U","Y","0.00185","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","2355-31-9","MeFOSAA","","","TRG","Yes","N","U","Y","0.00173","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","335-77-3","PFDS","","","TRG","Yes","N","U","Y","0.00129","0.00525","0.00837","UG\_L","UG\_L","","","  
","  
","  
"  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","2058-94-8","PERFLUOROUNDECANOIC

ACID

(PFUNA),"","","","TRG","Yes","N","U","Y","0.00110","0.00525","0.00837","UG\_L","UG\_L","","","","","","","","","","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","2991-50-  
6","EtFOSAA","","","TRG","Yes","N","U","Y","0.00143","0.00525","0.00837","UG\_L","UG\_L","","","","","","","","","","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","307-55-1","PERFLUORODODECANOIC  
ACID  
(PFDOA),"","","","TRG","Yes","N","U","Y","0.000829","0.00525","0.00837","UG\_L","UG\_L","","","","","","","","","","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","72629-94-  
8","PFTrDA","","","TRG","Yes","N","U","Y","0.000517","0.00525","0.00837","UG\_L","UG\_L","","","","","","","","","","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","376-06-  
7","PFTeDA","","","TRG","Yes","N","U","Y","0.000790","0.00525","0.00837","UG\_L","UG\_L","","","","","","","","","","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C3-PFBA","13C3-  
PFBA","86.2","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","86.2","86.2","","","","","50","150","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C3-PFPeA","13C3-  
PFPeA","86.3","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","86.3","86.3","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C3-PFBS","13C3-  
PFBS","94.6","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","94.6","94.6","","","","","50","150","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C2-PFHxA","13C2-  
PFHxA","85.6","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","85.6","85.6","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C4-PFHpA","13C4-  
PFHpA","88.3","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","88.3","88.3","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","18O2-PFHxS","18O2-  
PFHxS","86.3","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","86.3","86.3","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C2-PFOA","13C2-  
PFOA","73.2","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","73.2","73.2","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C8-PFOS","13C8-  
PFOS","74.6","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","74.6","74.6","","","","","50","150","","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C5-PFNA","13C5-  
PFNA","74.9","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","74.9","74.9","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C2-PFDA","13C2-  
PFDA","56.2","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","56.2","56.2","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C8-PFOSA","13C8-  
PFOSA","56.1","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","56.1","56.1","","","","","50","150",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","d3-MeFOSAA","d3-  
MeFOSAA","64.8","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","64.8","64.8","","","","","50","15  
0","  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C2-PFUnA","13C2-  
PFUnA","72.2","","IS","Yes","Y","","Y","","","","","PCT\_REC","","","","","100","72.2","72.2","","","","","50","150",""

,"","",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","d5-EtFOSAA","d5-  
EtFOSAA","64.8","","IS","Yes","Y","","Y","","","PCT\_REC","","","100","64.8","64.8","","","50","150"  
,"",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C2-PFDoA","13C2-  
PFDoA","79.3","","IS","Yes","Y","","Y","","","PCT\_REC","","","100","79.3","79.3","","","50","150"  
,"",""  
"FRB06\_20171006","537\_MOD","11/03/17","14:08","N","NA","000","13C2-PFTeDA","13C2-  
PFTeDA","54.1","","IS","Yes","Y","","Y","","","PCT\_REC","","","100","54.1","54.1","","","50","150"  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","375-22-  
4","PFBA","","","TRG","Yes","N","U","Y","0.000729","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","2706-90-  
3","PFPeA","","","TRG","Yes","N","U","Y","0.00128","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","375-73-  
5","PFBS","","","TRG","Yes","N","U","Y","0.00179","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","307-24-4","PERFLUOROHXANOIC ACID  
(PFHXA)","","","TRG","Yes","N","U","Y","0.00218","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID  
(PFHPA)","","","TRG","Yes","N","U","Y","0.000591","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","355-46-4","PERFLUOROHXANESULFONIC  
ACID  
(PFHXS)","","","TRG","Yes","N","U","Y","0.000947","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","335-67-1","PERFLUOROOCTANOIC ACID  
(PFOA)","","","TRG","Yes","N","U","Y","0.000651","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","1763-23-  
1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION  
","","","TRG","Yes","N","U","Y","0.000807","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","375-95-1","PERFLUORONONANOIC ACID  
(PFNA)","","","TRG","Yes","N","U","Y","0.000810","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","335-76-2","PERFLUORODECANOIC ACID  
(PFDA)","","","TRG","Yes","N","U","Y","0.00149","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","754-91-  
6","PFOSA","","","TRG","Yes","N","U","Y","0.00177","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","2355-31-  
9","MeFOSAA","","","TRG","Yes","N","U","Y","0.00165","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","335-77-  
3","PFDS","","","TRG","Yes","N","U","Y","0.00123","0.00500","0.00800","UG\_L","UG\_L","","",""  
,"",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","2058-94-8","PERFLUOROUNDECANOIC  
ACID  
(PFUNA)","","","TRG","Yes","N","U","Y","0.00105","0.00500","0.00800","UG\_L","UG\_L","","",""



"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","2991-50-6","EtFOSAA","TRG","Yes","N","U","Y","0.00137","0.00500","0.00800","UG\_L","UG\_L","","","","","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","307-55-1","PERFLUORODODECANOIC ACID (PFDOA)","TRG","Yes","N","U","Y","0.000792","0.00500","0.00800","UG\_L","UG\_L","","","","","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","72629-94-8","PFTTrDA","TRG","Yes","N","U","Y","0.000494","0.00500","0.00800","UG\_L","UG\_L","","","","","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","376-06-7","PFTeDA","TRG","Yes","N","U","Y","0.000755","0.00500","0.00800","UG\_L","UG\_L","","","","","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C3-PFBA","13C3-PFBA","89.9","IS","Yes","Y","Y","PCT\_REC","100","89.9","89.9","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C3-PFPeA","13C3-PFPeA","82.8","IS","Yes","Y","Y","PCT\_REC","100","82.8","82.8","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C3-PFBS","13C3-PFBS","95.4","IS","Yes","Y","Y","PCT\_REC","100","95.4","95.4","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C2-PFHxA","13C2-PFHxA","87.5","IS","Yes","Y","Y","PCT\_REC","100","87.5","87.5","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C4-PFHpA","13C4-PFHpA","86.9","IS","Yes","Y","Y","PCT\_REC","100","86.9","86.9","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","18O2-PFHxS","18O2-PFHxS","89.9","IS","Yes","Y","Y","PCT\_REC","100","89.9","89.9","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C2-PFOA","13C2-PFOA","82.4","IS","Yes","Y","Y","PCT\_REC","100","82.4","82.4","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C8-PFOS","13C8-PFOS","102","IS","Yes","Y","Y","PCT\_REC","100","102","102","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C5-PFNA","13C5-PFNA","83.4","IS","Yes","Y","Y","PCT\_REC","100","83.4","83.4","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C2-PFDA","13C2-PFDA","72.7","IS","Yes","Y","Y","PCT\_REC","100","72.7","72.7","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C8-PFOSA","13C8-PFOSA","53.6","IS","Yes","Y","Y","PCT\_REC","100","53.6","53.6","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","d3-MeFOSAA","d3-MeFOSAA","64.4","IS","Yes","Y","Y","PCT\_REC","100","64.4","64.4","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C2-PFUnA","13C2-PFUnA","70.7","IS","Yes","Y","Y","PCT\_REC","100","70.7","70.7","50","150","B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","d5-EtFOSAA","d5-EtFOSAA","73.0","IS","Yes","Y","Y","PCT\_REC","100","73.0","73.0","50","150"

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"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C2-PFDoA","13C2-  
PFDoA","62.0","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","62.0","62.0","","","","50","150","  
",""  
"B7J0092-BLK1","537\_MOD","10/26/17","13:10","N","NA","000","13C2-PFTeDA","13C2-  
PFTeDA","63.1","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","63.1","63.1","","","","50","150"  
",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","375-22-  
4","PFBA","0.0699","","TRG","Yes","Y","","Y","0.000729","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","  
0.0699","87.3","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","2706-90-  
3","PFPeA","0.0707","","TRG","Yes","Y","","Y","0.00128","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","  
0.0707","88.3","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","375-73-  
5","PFBS","0.0714","","TRG","Yes","Y","","Y","0.00179","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.  
0714","89.2","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","307-24-4","PERFLUOROHEXANOIC ACID  
(PFHXA)","0.0741","","TRG","Yes","Y","","Y","0.00218","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.  
0741","92.7","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID  
(PFHPA)","0.0708","","TRG","Yes","Y","","Y","0.000591","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.  
.0708","88.5","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","355-46-4","PERFLUOROHEXANESULFONIC  
ACID  
(PFHXS)","0.0743","","TRG","Yes","Y","","Y","0.000947","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0  
.0743","92.9","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","335-67-1","PERFLUOROOCTANOIC ACID  
(PFOA)","0.0667","","TRG","Yes","Y","","Y","0.000651","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.  
0667","83.4","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","1763-23-  
1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION  
","0.0606","","TRG","Yes","Y","","Y","0.000807","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.0606","7  
5.7","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","375-95-1","PERFLUORONONANOIC ACID  
(PFNA)","0.0696","","TRG","Yes","Y","","Y","0.000810","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.  
0696","87.1","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","335-76-2","PERFLUORODECANOIC ACID  
(PFDA)","0.0818","","TRG","Yes","Y","","Y","0.00149","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.0  
818","102","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","754-91-  
6","PFOSA","0.0596","","TRG","Yes","Y","","Y","0.00177","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","  
0.0596","74.6","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","2355-31-  
9","MeFOSAA","0.0715","","TRG","Yes","Y","","Y","0.00165","0.00500","0.00800","UG\_L","UG\_L","","","","0.080  
0","0.0715","89.4","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","335-77-  
3","PFDS","0.0997","","TRG","Yes","Y","","Y","0.00123","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.  
0997","125","","60","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","2058-94-8","PERFLUOROUNDECANOIC ACID  
(PFUNA)","0.0707","","TRG","Yes","Y","","Y","0.00105","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.  
0707","88.3","","","70","130","",""  
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","2991-50-  
6","EtFOSAA","0.0622","","TRG","Yes","Y","","Y","0.00137","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800  
","0.0622","77.8","","","70","130","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","307-55-1","PERFLUORODODECANOIC ACID (PFDOA)","0.0766","","TRG","Yes","Y","","Y","0.000792","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.0766","95.7","","70","130","","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","72629-94-8","PFTTrDA","0.0917","","TRG","Yes","Y","","Y","0.000494","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.0917","115","","60","130","","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","376-06-7","PFTeDA","0.0582","","TRG","Yes","Y","","Y","0.000755","0.00500","0.00800","UG\_L","UG\_L","","","","0.0800","0.0582","72.8","","70","130","","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C3-PFBA","13C3-PFBA","89.9","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","89.9","89.9","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C3-PFPeA","13C3-PFPeA","79.3","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","79.3","79.3","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C3-PFBS","13C3-PFBS","81.8","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","81.8","81.8","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C2-PFHxA","13C2-PFHxA","83.1","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","83.1","83.1","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C4-PFHpA","13C4-PFHpA","84.8","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","84.8","84.8","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","18O2-PFHxS","18O2-PFHxS","82.4","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","82.4","82.4","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C2-PFOA","13C2-PFOA","82.5","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","82.5","82.5","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C8-PFOS","13C8-PFOS","97.7","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","97.7","97.7","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C5-PFNA","13C5-PFNA","81.7","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","81.7","81.7","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C2-PFDA","13C2-PFDA","68.7","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","68.7","68.7","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C8-PFOSA","13C8-PFOSA","57.8","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","57.8","57.8","","","","50","150","",""

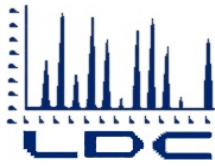
"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","d3-MeFOSAA","d3-MeFOSAA","57.6","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","57.6","57.6","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C2-PFUnA","13C2-PFUnA","66.4","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","66.4","66.4","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","d5-EtFOSAA","d5-EtFOSAA","61.9","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","61.9","61.9","","","","50","150","",""

"B7J0092-BS1","537\_MOD","10/26/17","12:03","N","NA","000","13C2-PFDoA","13C2-PFDoA","66.6","","IS","Yes","Y","","Y","","","PCT\_REC","","","","100","66.6","66.6","","","","50","150","",""

file:///C:/...%20ANALYTICAL%20DATA%20PROJECT/BRAC%20EAST/NAS%20CHASE%20FIELD/3\_EDD%20SDG%201701439.txt[11/24/2020 1:14:07 PM]



**LABORATORY DATA CONSULTANTS, INC.**

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AMEC Foster Wheeler, Inc.  
7376 SW Durham Road  
Portland, OR 97224  
Attn: Ms. Marina Mitchell

November 17, 2017

SUBJECT: Former Chase Field, Data Validation

Dear Ms. Mitchell,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on November 14, 2017. Attachment 1 is a summary of the samples that were reviewed for analysis.

**LDC Project #39837:**

<b><u>SDG #</u></b>	<b><u>Fraction</u></b>
1701432, 1701439	Perfluorinated Alkyl Acids

The data validation was performed under Stage 2B & 4 guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Sampling and Analysis Plan for Initial Assessment of Perfluorinated Compounds or Per- and Polyfluoroalkyl Substances Sites at Various Base Realignment and Closure Installations, June 2017
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.1, 2017
- USEPA, National Functional Guidelines for Organic Superfund Methods Data Review, January 2017

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng  
Project Manager/Senior Chemist

**90/10 (client select)**

**LDC #39837 (AMEC Foster Wheeler-Portland, OR / Former Chase Field)**

[illegible]

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Former Chase Field  
**LDC Report Date:** November 15, 2017  
**Parameters:** Perfluorinated Alkyl Acids  
**Validation Level:** Stage 2B & 4  
**Laboratory:** Vista Analytical Laboratory  
**Sample Delivery Group (SDG):** 1701432

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
Site 3-GW-03GW01-20171004	1701432-06	Water	10/04/17
Site 4-GW-04GW03-20171004	1701432-08	Water	10/04/17
Site 4-GW-04GW02-20171004	1701432-10	Water	10/04/17
Site 3-GW-MW1-20171005	1701432-13	Water	10/05/17
Site 3-DW-421648-20171005**	1701432-15**	Water	10/05/17
DUP01_20171005**	1701432-16**	Water	10/05/17
Site 3-GW-03GW03-20171005**	1701432-18**	Water	10/05/17
Site 4-GW-04GW02-20171004MS	1701432-10MS	Water	10/04/17
Site 4-GW-04GW02-20171004MSD	1701432-10MSD	Water	10/04/17

\*\*Indicates sample underwent Stage 4 validation

## **Introduction**

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Sampling and Analysis Plan for Initial Assessment of Perfluorinated Compounds (PFCS) or Per- and Polyfluoroalkyl Substances (PFAS) Sites at Various Base Realignment and Closure (BRAC) Installations (June 2017), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Perfluorinated Alkyl Acids by Environmental Protection Agency (EPA) Method 537

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Stage 4 data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.



The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## **I. Sample Receipt and Technical Holding Times**

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## **II. LC/MS Instrument Performance Check**

Instrument performance was checked as applicable.

All ion abundance requirements were met.

## **III. Initial Calibration and Initial Calibration Verification**

Initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination ( $r^2$ ) were greater than or equal to 0.990.

For each calibration point, the percent differences (%D) for their true value were less than or equal to 30.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

## **IV. Continuing Calibration**

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

## **V. Laboratory Blanks**

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Extraction Date	Compound	Concentration	Associated Samples
B7J0077-BLK1	10/13/17	PFHxA	0.00119 ug/L	Site 3-DW-421648-20171005** DUP01_20171005**

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
Site 3-DW-421648-20171005**	PFHxA	0.00125 ug/L	0.00494U ug/L
DUP01_20171005**	PFHxA	0.00189 ug/L	0.00485U ug/L

## VI. Field Blanks

Samples EB01\_20171002, EB02\_20171002, EB03\_20171003, EB04\_2017003, EB05\_2017004, and EB06\_20171005 were identified as equipment blanks. No contaminants were found with the following exceptions:

Blank ID	Collection Date	Compound	Concentration	Associated Samples
EB01_20171002	10/02/17	PFHxA	0.00112 ug/L	Site 3-DW-421648-20171005** DUP01_20171005**
EB04_20171003	10/03/17	PFHxS	0.00213 ug/L	Site 4-GW-04GW02-20171004
EB05_20171004	10/04/17	PFHxS	0.00203 ug/L	Site 3-GW-03GW01-20171004 Site 4-GW-04GW03-20171004 Site 4-GW-04GW02-20171004

Sample FB05\_2017004 (from SDG 1701439) was identified as a field blank. No contaminants were found.

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
Site 3-DW-421648-20171005**	PFHxA	0.00125 ug/L	0.00494U ug/L
DUP01_20171005**	PFHxA	0.00189 ug/L	0.00485U ug/L

## VII. Surrogates

Surrogates were added to all drinking water samples as required by the method. All surrogate recoveries (%R) were within QC limits.

## VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
Site 4-GW-04GW02-20171004MS/MSD (Site 4-GW-04GW02-20171004)	PFHxS	51.3 (70-130)	142 (70-130)	J (all detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
Site 4-GW-04GW02-20171004MS/MSD (Site 4-GW-04GW02-20171004)	PFHxS	93.8 (≤30)	J (all detects)	A

## IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

## X. Field Duplicates

Samples Site 3-DW-421648-20171005\*\* and DUP01\_20171005\*\* were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)	Differences (Limits)	Flag	A or P
	Site 3-DW-421648-20171005**	DUP01_20171005**				
PFHxA	0.00125	0.00189	-	0.00064 (≤0.00988)	-	-

## XI. Internal Standards

All internal standard areas and retention times were within QC limits.

## **XII. Compound Quantitation**

All compound quantitations met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

The laboratory limit of quantitation (LOQ), limit of detection (LOD), and detection limit (DL) are higher than the QAPP LOQ, LOD, and DL.

## **XIII. Target Compound Identifications**

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

## **XIV. System Performance**

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

## **XV. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and RPD, data were qualified as estimated in one sample.

Due to laboratory blank contamination, data were qualified as not detected in two samples.

Due to equipment blank contamination, data were qualified as not detected in two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

**Former Chase Field  
Perfluorinated Alkyl Acids - Data Qualification Summary - SDG 1701432**

Sample	Compound	Flag	A or P	Reason
Site 4-GW-04GW02-20171004	PFHxS	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)

**Former Chase Field  
Perfluorinated Alkyl Acids - Laboratory Blank Data Qualification Summary - SDG 1701432**

Sample	Compound	Modified Final Concentration	A or P
Site 3-DW-421648-20171005**	PFHxA	0.00494U ug/L	A
DUP01_20171005**	PFHxA	0.00485U ug/L	A

**Former Chase Field  
Perfluorinated Alkyl Acids - Field Blank Data Qualification Summary - SDG 1701432**

Sample	Compound	Modified Final Concentration	A or P
Site 3-DW-421648-20171005**	PFHxA	0.00494U ug/L	A
DUP01_20171005**	PFHxA	0.00485U ug/L	A

LDC #: 39837A96

## VALIDATION COMPLETENESS WORKSHEET

SDG #: 1701432

Stage 2B/4

Laboratory: Vista Analytical Laboratory

Date: 11/14/17

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: \_\_\_\_\_

**METHOD:** LC/MS Perfluorinated Alkyl Acids (EPA Method 537)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	-A-A	YORSO $\leq 20\%$ , True YOD $\leq 30\%$ 10V $\leq 30\%$
IV.	Continuing calibration	A	CCV $\leq 30\%$
V.	Laboratory Blanks	W	
VI.	Field blanks	W	see WS for ZB, FRB05_20171005 (1701439)
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	W	
IX.	Laboratory control samples	A	LCS/D
X.	Field duplicates	W	D = 5+6
XI.	Internal standards	W	
XII.	Compound quantitation RL/LOQ/LODs	W	Not reviewed for Stage 2B validation
XIII.	Target compound identification	A	Not reviewed for Stage 2B validation
XIV.	System performance	A	Not reviewed for Stage 2B validation
XV.	Overall assessment of data	A	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB = Source blank  
OTHER:

\*\* Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	2 Site 3-GW-03GW01-20171004	1701432-06	Water	10/04/17
2	3 Site 4-GW-04-GW03-20171004	1701432-08	Water	10/04/17
3	2 Site 4-GW-04-GW02-20171004	1701432-10	Water	10/04/17
4	2 Site 3-GW-MW01-20171005	1701432-13	Water	10/05/17
5	1 Site 3-DW-421648-20171005**	1701432-15**	Water	10/05/17
6	1 DUP01_20171005**	1701432-16**	Water	10/05/17
7	2 Site 3-GW-03GW03-20171005**	1701432-18**	Water	10/05/17
8	2 Site 4-GW-04-GW02-20171004MS	1701432-10MS	Water	10/04/17
9	2 Site 4-GW-04-GW02-20171004MSD	1701432-10MSD	Water	10/04/17
10				
11	1 BTJ0071-BK1			
12	2 BTJ0071-BK1			
13	3 BTJ0092-BK1			
14				

**Method:** LCMS (EPA Method 537)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>II. LC/MS Instrument performance check</b>				
Were the instrument performance reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IIIa. Initial calibration</b>				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq$ 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit criteria of $\geq$ 0.990?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all analytes within 70-130% or percent differences (%D) $\leq$ 30% of their true value for each calibration standard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IIIb. Initial Calibration Verification</b>				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $\leq$ 30%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IV. Continuing calibration</b>				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) of the continuing calibration $\leq$ 30%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>V. Laboratory Blanks</b>				
Was a laboratory blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a laboratory blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>VI. Field blanks</b>				
Were field blanks identified in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were target compounds detected in the field blanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>VIII. Matrix spike/Matrix spike duplicates</b>				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>IX. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



LDC #: 37837A96

## VALIDATION FINDINGS CHECKLIST

Page: 2 of 2  
Reviewer: 9  
2nd Reviewer: JN

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were target compounds detected in the field duplicates?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within $\pm 50\%$ of the associated calibration standard?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Target compound identification				
Were relative retention times (RRT's) within $\pm 0.06$ RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# TARGET COMPOUND WORKSHEET

## METHOD: PFOS/PFOAs

A. Perfluorohexanoic acid (PFHxA)				
B. Perfluoroheptanoic acid (PFHpA)				
C. Perfluorooctanoic acid (PFOA)				
D. Perfluorononanoic acid (PFNA)				
E. Perfluorodecanoic acid (PFDA)				
F. Perfluoroundecanoic acid (PFUnA)				
G. Perfluorododecanoic acid (PFDoA)				
H. Perfluorotridecanoic acid (PFTriA)				
I. Perfluorotetradecanoic acid (PFTeA)				
J. Perfluorobutanesulfonic acid (PFBS)				
K. Perfluorohexanesulfonic acid (PFHxS)				
L. Perfluoroheptanesulfonic acid (PFHpS)				
M. Perfluorooctanesulfonic acid (PFOS)				
N. Perfluorodecanesulfonic acid (PFDS)				
O. Perfluorooctane Sulfonamide (FOSA)				
P. Perfluorobutanoic acid (PFBA)				
Q. Perfluoropentanoic acid (PFPeA)				
R. 6:2FTS				
S. 8:2FTS				

LDC #: 39837A96

## VALIDATION FINDINGS WORKSHEET

BlanksPage: 1 of 1Reviewer: 92nd Reviewer: JVMETHOD: GC ☒ HPLC MS

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- ☒ Y ☐ N ☐ N/A Were all samples associated with a given method blank?
- ☒ Y ☐ N ☐ N/A Was a method blank performed for each matrix and whenever a sample extraction procedure was performed?
- ☒ Y ☐ N ☐ N/A Was a method blank performed with each extraction batch?
- ☒ Y ☐ N ☐ N/A Were any contaminants found in the method blanks? If yes, please see findings below.

Level I/II Only☒ Y ☐ N ☐ N/A (Gasoline and aromatics only) Was a method blank analyzed with each 24 hour batch?☒ Y ☐ N ☐ N/A Was a method blank analyzed for each analytical / extraction batch of  $\leq 20$  samples?Blank extraction date: 10/13/17 Blank analysis date: 10/15/17Associated samples: 5-6Conc. units: ug/L

Compound	Blank ID	Sample Identification					
<u>BT100TT-BK</u>	<u>5</u>	<u>6</u>					
<u>FFHxA</u>	<u>0.00119</u>	<u>0.00125</u>	<u>0.00189</u>	<u>0.00485</u>			

Blank extraction date: \_\_\_\_\_ Blank analysis date: \_\_\_\_\_

Associated samples: \_\_\_\_\_

Conc. units: \_\_\_\_\_

Compound	Blank ID	Sample Identification					

ALL CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

All contaminants within five times the method blank concentration were qualified as not detected, "U".

## VALIDATION FINDINGS WORKSHEET

## Field Blanks

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

EB02\_20171002, EB03\_20171003 and EB06\_20171005 = ND

☒ N N/A Were field blanks identified in this SDG?☒ N N/A Were target compounds detected in the field blanks?

Blank units: ug/L Associated sample units: ug/L

Sampling date: 10/2/17

Field blank type: (circle one) Trip Blank/Field Blank / Rinsate / Other: EB Associated Samples: 5-6

Compound	Blank ID	Sample Identification							
	EB01_20171002	Action Level	5	6					
PFHxA	0.00112	0.0056	0.00125/0.00494	0.00189/0.00485					

Blank units: ug/L Associated sample units: ug/L

Sampling date: 10/3/17

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 3

Compound	Blank ID	Sample Identification							
	EB04_2017003	Action Level							
PFHxS	0.00213	0.01065							

Blank units: ug/L Associated sample units: ug/L

Sampling date: 10/4/17

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1 - 3

Compound	Blank ID	Sample Identification							
	EB05_2017004	Action Level	1						
PFHxS	0.00203	0.01015							

## VALIDATION FINDINGS WORKSHEET

### Matrix Spike/Matrix Spike Duplicates

METHOD: GC ☒ HPLC yes

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y	N	N/A	Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
---	---	-----	--

Y/N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

[illegible]

LDC#: 39837A96**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**Page: 1 of 1  
Reviewer: 9  
2nd Reviewer: ML**METHOD:** PFCs (Method 537 mod)

Compound	Concentration (ug/L)		(≤30) RPD	Difference	Limits	Qual
	5	6				
PFHxA	0.00125	0.00189		0.00064	≤0.00988	

## VALIDATION FINDINGS WORKSHEET

### Internal Standards

**METHOD:** LC/MS PFCs

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y/N/N/A Were all internal standard area counts within 50-150% limits?

TY N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

[illegible]

## VALIDATION FINDINGS WORKSHEET

### Compound Quantitation and RLs

**METHOD:** LC/MS

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Level IV/D Only~~

Y N N/A Were RLs adjusted for sample dilutions, dry weights, etc.?

[illegible]



LDC: 39837A 96VALIDATION FINDINGS WORKSHEET  
Initial Calibration Calculation VerificationPage: 1 of 1  
Reviewwe: 9  
2nd Reviewer: NR

Method: LC/MS PFCs

Calibration Date	Analyte	Standard	(X) Concentration	(Y) Area
10/15/2017	PFHxA Q2	1	0.050	0.0163138
		2	0.100	0.0282592
		3	0.200	0.0542646
		4	0.500	0.1030327
		5	1.000	0.2047553
		6	2.500	0.4836747
		7	5.000	1.0121985
		8	7.500	1.5125812
		9	10.000	2.0256968

## Linear through the origin

	<i>calculated</i>	<i>Reported</i>
Constant	0.000000	0.0000
X Coefficient(s)	2.020221E-01	2.02105E-01
Correlation Coefficient	0.999948	
Coefficient of Determination (r^2)	0.999895	0.9986

LDC#: 39837A96VALIDATION FINDINGS WORKSHEET  
Initial Calibration Calculation VerificationPage: 1 of 1  
Reviewer: 9  
2nd Reviewer: 102

Method: LC/MS/MS PFCs

Calibration Date	System	Compound	Standard	(Y) Response	(X) Concentration
10/16/2017	Q4	PFOA	0	0.6885150	0.25
			s1	0.8251737	0.50
			s2	1.4842825	1.00
			s3	2.6060887	2.00
			s4	5.3262037	5.00
			s5	10.2938050	10.00
			s6	50.4021010	50.00
			s7	99.906131	100.00
			s9	229.659260	250.00

## Regression Output

## Reported

Constant	1.603415	0.469792
Std Err of Y Est		
R Squared	0.998821	0.998193
Degrees of Freedom		
X Coefficient(s)	0.923608	0.947972
Std Err of Coef.		
Correlation Coefficient	0.999411	
Coefficient of Determination (r^2)	0.998821	0.998193

LDC # 3987896

**VALIDATION FINDINGS WORKSHEET**  
**Continuing Calibration Results Verification**

Page: 1 of 1  
Reviewer: JK  
2nd Reviewer: JVC

METHOD: GC ✓ HPLC MS

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference =  $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$   
CF = A/C

Where: ave. CF = initial calibration average CF  
CF = continuing calibration CF  
A = Area of compound  
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/Conc. CCV	CF/Conc. CCV	%D	%D
1	1710154227	10/15/17	PRHx A	50.0	48.965	48.918	2.1	2.2
2	1710161436	10/16/17	FFOA	10.0	11.6	11.57	15.7	15.7
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 3903796

VALIDATION FINDINGS WORKSHEET  
Surrogate Results Verification

Page: 1 of 1  
Reviewer: Cr  
2nd reviewer: DRe

METHOD: GC ☒ HPLC MS

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS \* 100

Where: SF = Surrogate Found  
SS = Surrogate Spiked

Sample ID: 5

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
13C2-PFHxA		39.5257	39.846	101	101	0
13C2-PFOA		✓	38.953	98.5	98.5	✓
15-2-FOSAA		158.10276	161.430	102	102	✓

Sample ID: \_\_\_\_\_

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: \_\_\_\_\_

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 2985A96

# VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1  
Reviewer: 9  
2nd Reviewer: 126

METHOD: GC ☒ HPLC MS

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery =  $100 * (SSC - SC) / SA$ 

Where

SSC = Spiked sample concentration

SC = Sample concentration

SA = Spike added

MS = Matrix spike

MSD = Matrix spike duplicate

RPD =  $\frac{((SSCMS - SSCMSD) * 2)}{(SSCMS + SSCMSD)} * 100$ MS/MSD samples: 3/9

Compound	Spike Added ( <u>MSD</u> )		Sample Conc. ( <u>MSD</u> )	Spike Sample Concentration ( <u>MSD</u> )		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
			---								
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
PFHxA	0.0854	0.0906	0.300	0.386	0.390	100.0	100.7	99.0	99.3	1.01	1.03

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 37037A 96

## VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results VerificationPage: 1 of 1Reviewer: Q2nd Reviewer: NRMETHOD: GC ☒ HPLC MS

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 * (SSC - SC) / SA$ 

Where: SSC = Spiked sample concentration

SC = Concentration

SA = Spike added

RPD =  $|SSCLCS - SSCLCSD| * 2 / (SSCLCS + SSCLCSD)$ 

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: BTJ0077

Compound	Spike Added ( <u>100</u> )		Spiked Sample Concentration ( <u>100</u> )		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
<del>PFHxA</del>	<u>0.0400</u>	<u>0.0400</u>	<u>0.0390</u>	<u>0.0366</u>	<u>97.6</u>	<u>97.5</u>	<u>91.5</u>	<u>91.5</u>	<u>6.41</u>	<u>6.35</u>

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39887A96VALIDATION FINDINGS WORKSHEET  
Sample Calculation VerificationPage: 1 of 1Reviewer: 92nd Reviewer: JRMETHOD: GC ☒ HPLC/MS☒ Y ☐ N N/A

Were all reported results recalculated and verified for all level IV samples?

☒ Y ☐ N N/A

Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration =  $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$ 

Example:

Sample ID. 5 Compound Name PFHxA

A= Area or height of the compound to be measured

Fv= Final Volume of extract

Df= Dilution Factor

RF= Average response factor of the compound  
In the initial calibration

Vs= Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

$$\text{Concentration} = \frac{(3.4021)(10.0)(1)}{(5.6423)(0.202105)(0.253)(1000)}$$
$$= 0.0125 \text{ } \mu\text{g/L}$$

#	Sample ID	Compound	Reported Concentrations ( <u><math>\mu\text{g/L}</math></u> )	Recalculated Results Concentrations ( )	Qualifications
	<u>5</u>	<u>PFHxA</u>	<u>0.0125</u>		

Comments: \_\_\_\_\_

**Laboratory Data Consultants, Inc.**  
**Data Validation Report**

**Project/Site Name:** Former Chase Field

**LDC Report Date:** November 15, 2017

**Parameters:** Perfluorinated Alkyl Acids

**Validation Level:** Stage 2B

**Laboratory:** Vista Analytical Laboratory

**Sample Delivery Group (SDG):** 1701439

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
FRB05_20171005	1701439-01	Water	10/05/17
Site 3-GW-03GW02-20171005	1701439-02	Water	10/05/17
Site 4-GW-04GW01-20171006	1701439-04	Water	10/06/17
FRB06_20171006	1701439-05	Water	10/06/17



## **Introduction**

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Sampling and Analysis Plan for Initial Assessment of Perfluorinated Compounds (PFCS) or Per- and Polyfluoroalkyl Substances (PFAS) Sites at Various Base Realignment and Closure (BRAC) Installations (June 2017), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Perfluorinated Alkyl Acids by Environmental Protection Agency (EPA) Method 537

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## **I. Sample Receipt and Technical Holding Times**

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## **II. LC/MS Instrument Performance Check**

Instrument performance was checked as applicable.

All ion abundance requirements were met.

## **III. Initial Calibration and Initial Calibration Verification**

Initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination ( $r^2$ ) were greater than or equal to 0.990.

For each calibration point, the percent differences (%D) for their true value were less than or equal to 30.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

## **IV. Continuing Calibration**

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

## **V. Laboratory Blanks**

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

## **VI. Field Blanks**

Sample EB06\_20171005 (from SDG 1701432) was identified as an equipment blank. No contaminants were found.

Samples FRB05\_20171005 and FRB06\_20171006 were identified as field rinsate blanks. No contaminants were found.

## **VII. Matrix Spike/Matrix Spike Duplicates**

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

## **VIII. Laboratory Control Samples**

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

## **IX. Field Duplicates**

No field duplicates were identified in this SDG.

## **X. Internal Standards**

All internal standard areas and retention times were within QC limits.

## **XI. Compound Quantitation**

The laboratory limit of quantitation (LOQ), limit of detection (LOD), and detection limit (DL) are higher than the QAPP LOQ, LOD, and DL.

Raw data were not reviewed for Stage 2B validation.

## **XII. Target Compound Identifications**

Raw data were not reviewed for Stage 2B validation.

## **XIII. System Performance**

Raw data were not reviewed for Stage 2B validation.

## **XIV. Overall Assessment of Data**

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

**Former Chase Field  
Perfluorinated Alkyl Acids - Data Qualification Summary - SDG 1701439**

No Sample Data Qualified in this SDG

**Former Chase Field  
Perfluorinated Alkyl Acids - Laboratory Blank Data Qualification Summary - SDG 1701439**

No Sample Data Qualified in this SDG

**Former Chase Field  
Perfluorinated Alkyl Acids - Field Blank Data Qualification Summary - SDG 1701439**

No Sample Data Qualified in this SDG

LDC #: 39837B96

## VALIDATION COMPLETENESS WORKSHEET

SDG #: 1701439

Stage 2B

Laboratory: Vista Analytical Laboratory

Date: 11/14/17

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** LC/MS Perfluorinated Alkyl Acids (EPA Method 537)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A	RSD < 20% $\chi^2$ Time to 530% 10/15/30%
IV.	Continuing calibration	A	CV < 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	FB=1, 4. 2B06-20171005 (1701432)
VII.	Surrogate spikes	N	Not added
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS/b
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

SB=Source blank  
OTHER:

	Client ID	Lab ID	Matrix	Date
1	FRB05_20171005	1701439-01	Water	10/05/17
2	Site 3-GW-03GW02-20171005	1701439-02	Water	10/05/17
3	Site 4-GW-04GW01-20171006	1701439-04	Water	10/06/17
4	FRB06_20171006	1701439-05	Water	10/06/17
5				
6				
7				
8				
9				

Notes:


## VALIDATION FINDINGS WORKSHEET

### Compound Quantitation and RLs

**METHOD:** LC/MS

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Level IV/D Only~~

Y N N/A Were RLs adjusted for sample dilutions, dry weights, etc.?

[illegible]

LDC #: 39837

## EDD POPULATION COMPLETENESS WORKSHEET

Date: 11/15  
Page: 1 of 1  
2nd Reviewer: BAThe LDC job number listed above was entered by JE

	EDD Process		Comments/Action
I.	EDD Completeness	-	
Ia.	- All methods present?	Y	
Ib.	- All samples present/match report?	Y	
Ic.	- All reported analytes present?	Y	
Id.	- <u>10%</u> or 100% verification of EDD?	Y	
II.	EDD Preparation/Entry	-	
IIa.	- Carryover U/J?	-	
IIb.	- Reason Codes used? If so, note which codes.	Y	
IIc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	Y	
III.	Reasonableness Checks	-	
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	Y	
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	Y	
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	Y	
IIId.	- Does the detect flag require changing for blank qualifier? If so, are all U results marked ND?	Y/Y	
IIIe.	- Do blank concentrations in report match EDD where data was qualified due to blank contamination?	Y	
IIIf.	- Were multiple results reported due to dilutions/reanalysis? If so, were results qualified appropriately?	+	
IIIg.	- Are there any discrepancies between the data packet and the EDD?	N	

Notes: \*see discrepancy sheet



INSTALLATION_ID	SITE_NAME	LOCATION_NAME	LOCATION_TYPE	LOCATION_TYPE_DESC	COORD_X*	COORD_Y*	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC	SDG
CHASE_FIELD_NAS	TBC	03GW02	WLM	Monitoring Well	-97.657826	28.367192	SITE 3-GW-03GW02-20171005	WG	Ground water	5-Oct-17	Perfluoroalkyl Compounds	1701439
CHASE_FIELD_NAS	TBC	04GW01	WLM	Monitoring Well	-97.645635	28.353282	SITE 4-GW-04GW01-20171006	WG	Ground water	6-Oct-17	Perfluoroalkyl Compounds	1701439