



**Groundwater Sample Results,  
Level 2 Laboratory Report, Level 4 Laboratory Report,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Report, SDG 1701827**

*Norfolk Naval Shipyard  
Portsmouth, Virginia*

July 2019

January 05, 2018

**Vista Work Order No. 1701827**

Ms. Megan Morrison  
CH2M Hill  
33 Reading Hill Avenue  
Melrose, MA 02176

Dear Ms. Morrison,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on December 01, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'NNSY OU7 WE58'.

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. 1701827**

**Case Narrative**

**Sample Condition on Receipt:**

One aqueous sample was received in good condition and within the method temperature requirements. The sample was received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

**Analytical Notes:**

**Modified EPA Method 537**

The sample was extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

The sample was extracted and analyzed within the method hold times.

Quality Control

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

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

The sample extract was re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The results were similar in the second injection. The results from the re-injection have been reported.

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

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
1701827-01	IR03-EB01-113017	30-Nov-17 13:08	01-Dec-17 09:40	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

## **ANALYTICAL RESULTS**

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

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0037-BLK1	Column:	BEH C18
Project:	NNSY OU7 WE58						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.895	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFHxA	ND	1.09	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFHpA	ND	0.296	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFHxS	ND	0.474	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFOA	ND	0.326	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFOS	ND	0.404	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFNA	ND	0.405	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFDA	ND	0.745	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
MeFOSAA	ND	0.825	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFUnA	ND	0.525	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
EtFOSAA	ND	0.685	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFDoA	ND	0.396	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFTrDA	ND	0.247	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFTeDA	ND	0.378	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	112	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFHxA	IS	101	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C4-PFHpA	IS	100	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
18O2-PFHxS	IS	86.9	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFOA	IS	88.6	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C8-PFOS	IS	107	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C5-PFNA	IS	83.7	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFDA	IS	61.8	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
d3-MeFOSAA	IS	67.7	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFUnA	IS	57.8	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
d5-EtFOSAA	IS	54.6	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFDoA	IS	68.4	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFTeDA	IS	110	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1

DL - Detection Limit

LOD - Limit of Detection  
LOQ - Limit of quantitation

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

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

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

Name: CH2M Hill	Lab Sample: B7L0037-BS1/B7L0037-BSD1	Date Extracted: 11-Dec-17	11-Dec-17
Project: NNSY OU7 WE58	QC Batch: B7L0037	Column: BEH C18	
Matrix: Aqueous	Samp Size: 0.250/0.250 L		

Analyte	LCS (ng/L)	LCS Spike Amt	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike Amt	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBS	46.1	40.0	115		42.9	40.0	107	7.19		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFHxA	42.6	40.0	107		41.9	40.0	105	1.75		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFHpA	37.5	40.0	93.7		44.9	40.0	112	18.0		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFHxS	37.0	40.0	92.4		40.3	40.0	101	8.64		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFOA	36.2	40.0	90.4		37.2	40.0	92.9	2.75		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFOS	51.6	40.0	129		36.0	40.0	90.1	35.5		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFNA	42.5	40.0	106		37.5	40.0	93.8	12.5		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFDA	51.5	40.0	129		40.6	40.0	102	23.6		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
MeFOSAA	42.0	40.0	105		38.2	40.0	95.6	9.43		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFUnA	41.4	40.0	104		44.4	40.0	111	6.82		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
EtFOSAA	35.6	40.0	89.0		38.1	40.0	95.2	6.67		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PfDoA	44.6	40.0	112		44.1	40.0	110	1.10		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFTrDA	34.3	40.0	85.8		32.8	40.0	81.9	4.63		60-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFTeDA	38.3	40.0	95.6		36.6	40.0	91.5	4.41		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1

Labeled Standards	Type	LCS % Rec	LCS Quals	LCSD % Rec	LCSD Quals	Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS	96.0		98.9		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFHxA	IS	94.7		99.9		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C4-PFHpA	IS	96.2		86.9		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
18O2-PFHxS	IS	90.2		95.3		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFOA	IS	89.0		80.8		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C8-PFOS	IS	72.8		113		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C5-PFNA	IS	77.6		104		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFDA	IS	65.9		81.6		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
d3-MeFOSAA	IS	66.2		72.3		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFUnA	IS	56.6		74.0		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
d5-EtFOSAA	IS	82.8		71.5		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PfDoA	IS	64.1		74.0		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFTeDA	IS	86.5		107		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1

**Sample ID: IR03-EB01-113017**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701827-01	Column:	BEH C18
Project:	NNSY OU7 WE58	Date Collected:	30-Nov-17 13:08	Date Received:	01-Dec-17 09:40		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.900	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHxA	ND	1.10	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHpA	ND	0.297	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHxS	ND	0.476	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOA	ND	0.327	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOS	ND	0.406	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFNA	ND	0.407	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFDA	ND	0.749	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
MeFOSAA	ND	0.830	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFUnA	ND	0.528	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
EtFOSAA	ND	0.689	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFDoA	ND	0.398	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFTrDA	ND	0.248	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFTeDA	ND	0.380	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	130	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFHxA	IS	110	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C4-PFHpA	IS	111	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
18O2-PFHxS	IS	115	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFOA	IS	94.1	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C8-PFOS	IS	98.0	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C5-PFNA	IS	110	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFDA	IS	109	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
d3-MeFOSAA	IS	138	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFUnA	IS	108	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
d5-EtFOSAA	IS	131	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFDoA	IS	101	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFTeDA	IS	118	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1

DL - Detection Limit

LOD - Limit of Detection  
LOQ - Limit of quantitation

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

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

## **DATA QUALIFIERS & ABBREVIATIONS**

<b>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The associated compound concentration exceeded the calibration range of the instrument.</b>
<b>H</b>	<b>Recovery and/or RPD was outside laboratory acceptance limits.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Reporting Limit/LOQ.</b>
<b>M</b>	<b>Estimated Maximum Possible Concentration. (CA Region 2 projects only)</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>NA</b>	<b>Not applicable</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>
<b>U</b>	<b>Not Detected (specific projects only)</b>

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

## CERTIFICATIONS

<b>Accrediting Authority</b>	<b>Certificate Number</b>
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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





Sample Log-in Checklist

Vista Work Order #: 1701827 TAT Std

Samples Arrival:	Date/Time 12/1/17 0920	Initials: BB IA	Location: WR-2 Shelf/Rack: N/A				
Logged In:	Date/Time 12/02/17 1140	Initials: BB	Location: WR-2 Shelf/Rack: B4				
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None			
Temp °C: 0.0	(uncorrected)	Time: 0940	Thermometer ID: DT-3				
Temp °C: 0.0	(corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: IR-1				

		YES	NO	NA		
Adequate Sample Volume Received?		<input checked="" type="checkbox"/>				
Holding Time Acceptable?		<input checked="" type="checkbox"/>				
Shipping Container(s) Intact?		<input checked="" type="checkbox"/>				
Shipping Custody Seals Intact?		<input checked="" type="checkbox"/>				
Shipping Documentation Present?		<input checked="" type="checkbox"/>				
Airbill	Trk # 7887 0291 0288	<input checked="" type="checkbox"/>				
Sample Container Intact?		<input checked="" type="checkbox"/>				
Sample Custody Seals Intact?				<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Present?		<input checked="" type="checkbox"/>				
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				<input checked="" type="checkbox"/>		
Preservation Documented:	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Trizma	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Yes	No	NA
Shipping Container	<input checked="" type="checkbox"/> Vista	Client	<input checked="" type="checkbox"/> Retain	Return	Dispose	

Comments:

January 05, 2018

**Vista Work Order No. 1701827**

Ms. Megan Morrison  
CH2M Hill  
33 Reading Hill Avenue  
Melrose, MA 02176

Dear Ms. Morrison,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on December 01, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'NNSY OU7 WE58'.

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. 1701827**

**Case Narrative**

**Sample Condition on Receipt:**

One aqueous sample was received in good condition and within the method temperature requirements. The sample was received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

**Analytical Notes:**

**Modified EPA Method 537**

The sample was extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

The sample was extracted and analyzed within the method hold times.

Quality Control

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

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

The sample extract was re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The results were similar in the second injection. The results from the re-injection have been reported.

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

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
1701827-01	IR03-EB01-113017	30-Nov-17 13:08	01-Dec-17 09:40	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

## **ANALYTICAL RESULTS**

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

<b>Client Data</b>				<b>Laboratory Data</b>			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	B7L0037-BLK1	Column:	BEH C18
Project:	NNSY OU7 WE58						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.895	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFHxA	ND	1.09	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFHpA	ND	0.296	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFHxS	ND	0.474	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFOA	ND	0.326	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFOS	ND	0.404	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFNA	ND	0.405	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFDA	ND	0.745	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
MeFOSAA	ND	0.825	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFUnA	ND	0.525	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
EtFOSAA	ND	0.685	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFDoA	ND	0.396	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFTrDA	ND	0.247	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
PFTeDA	ND	0.378	2.50	4.00		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	112	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFHxA	IS	101	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C4-PFHpA	IS	100	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
18O2-PFHxS	IS	86.9	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFOA	IS	88.6	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C8-PFOS	IS	107	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C5-PFNA	IS	83.7	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFDA	IS	61.8	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
d3-MeFOSAA	IS	67.7	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFUnA	IS	57.8	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
d5-EtFOSAA	IS	54.6	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFDoA	IS	68.4	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1
13C2-PFTeDA	IS	110	50 - 150		B7L0037	11-Dec-17	0.250 L	24-Dec-17 15:35	1

DL - Detection Limit

LOD - Limit of Detection  
LOQ - Limit of quantitation

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

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

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

Name: CH2M Hill	Lab Sample: B7L0037-BS1/B7L0037-BSD1	Date Extracted: 11-Dec-17	11-Dec-17
Project: NNSY OU7 WE58	QC Batch: B7L0037	Column: BEH C18	
Matrix: Aqueous	Samp Size: 0.250/0.250 L		

Analyte	LCS (ng/L)	LCS Spike Amt	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike Amt	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBS	46.1	40.0	115		42.9	40.0	107	7.19		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFHxA	42.6	40.0	107		41.9	40.0	105	1.75		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFHpA	37.5	40.0	93.7		44.9	40.0	112	18.0		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFHxS	37.0	40.0	92.4		40.3	40.0	101	8.64		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFOA	36.2	40.0	90.4		37.2	40.0	92.9	2.75		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFOS	51.6	40.0	129		36.0	40.0	90.1	35.5		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFNA	42.5	40.0	106		37.5	40.0	93.8	12.5		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFDA	51.5	40.0	129		40.6	40.0	102	23.6		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
MeFOSAA	42.0	40.0	105		38.2	40.0	95.6	9.43		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFUnA	41.4	40.0	104		44.4	40.0	111	6.82		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
EtFOSAA	35.6	40.0	89.0		38.1	40.0	95.2	6.67		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFDaA	44.6	40.0	112		44.1	40.0	110	1.10		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFTTrDA	34.3	40.0	85.8		32.8	40.0	81.9	4.63		60-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1
PFTeDA	38.3	40.0	95.6		36.6	40.0	91.5	4.41		70-130		24-Dec-17 15:02	1	24-Dec-17 15:13	1

Labeled Standards	Type	LCS % Rec	LCS Quals	LCSD % Rec	LCSD Quals	Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS	96.0		98.9		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFHxA	IS	94.7		99.9		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C4-PFHpA	IS	96.2		86.9		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
18O2-PFHxS	IS	90.2		95.3		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFOA	IS	89.0		80.8		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C8-PFOS	IS	72.8		113		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C5-PFNA	IS	77.6		104		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFDA	IS	65.9		81.6		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
d3-MeFOSAA	IS	66.2		72.3		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFUnA	IS	56.6		74.0		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
d5-EtFOSAA	IS	82.8		71.5		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFDaA	IS	64.1		74.0		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1
13C2-PFTeDA	IS	86.5		107		50-150	24-Dec-17 15:02	1	24-Dec-17 15:13	1



**Sample ID: IR03-EB01-113017**

**Modified EPA Method 537**

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701827-01	Column:	BEH C18
Project:	NNSY OU7 WE58	Date Collected:	30-Nov-17 13:08	Date Received:	01-Dec-17 09:40		

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.900	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHxA	ND	1.10	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHpA	ND	0.297	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHxS	ND	0.476	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOA	ND	0.327	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOS	ND	0.406	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFNA	ND	0.407	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFDA	ND	0.749	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
MeFOSAA	ND	0.830	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOxA	ND	0.528	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
EtFOSAA	ND	0.689	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOxA	ND	0.398	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFTeDA	ND	0.248	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFTeDA	ND	0.380	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	130	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFHxA	IS	110	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C4-PFHpA	IS	111	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
18O2-PFHxS	IS	115	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFOA	IS	94.1	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C8-PFOS	IS	98.0	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C5-PFNA	IS	110	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFDA	IS	109	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
d3-MeFOSAA	IS	138	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFOxA	IS	108	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
d5-EtFOSAA	IS	131	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFOxA	IS	101	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
13C2-PFTeDA	IS	118	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1

DL - Detection Limit

LOD - Limit of Detection  
LOQ - Limit of quantitation

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

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

## **DATA QUALIFIERS & ABBREVIATIONS**

<b>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The associated compound concentration exceeded the calibration range of the instrument.</b>
<b>H</b>	<b>Recovery and/or RPD was outside laboratory acceptance limits.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Reporting Limit/LOQ.</b>
<b>M</b>	<b>Estimated Maximum Possible Concentration. (CA Region 2 projects only)</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>NA</b>	<b>Not applicable</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>
<b>U</b>	<b>Not Detected (specific projects only)</b>

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

## CERTIFICATIONS

<b>Accrediting Authority</b>	<b>Certificate Number</b>
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1322288
New Hampshire Environmental Accreditation Program	207717
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	014
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	9077
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

Vista Analytical Lab  
**EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD**

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 877-345-1113 ♦ (fax) 866-417-0548

29673

<b>Send Results to:</b>		<b>Send Invoice to:</b>		<b>Analysis Requirements:</b>										<b>Lab Use Only:</b>						
Name <u>Megan Morrison</u>		Name _____		1701827 0.0°C CFA Method 537 Modified PFAS										VOA Headspace	Y	N	NA			
Company <u>CH2M HILL</u>		Company _____												Field Filtered	Y	N	NA			
Address <u>2411 Dulles Corner Park</u>		Address _____												Correct Containers	Y	N	NA			
City <u>Herndon</u>		City _____												Discrepancies	Y	N	NA			
State, Zip <u>VA 20171</u>		State, Zip _____												Cust. Seals Intact	Y	N	NA			
Phone <u>(757) 403-2506</u>		Phone _____		Containers Intact	Y	N	NA													
Fax _____		Fax _____		Airbill #: _____				CAR #: _____												
E-mail <u>megan.morrison@ch2m.com</u>		E-mail _____																		
<b>Project No./Name:</b> <u>NNSY 07 WE58</u>				<b>Sampler's (Signature):</b> 																
<b>Lab Use Only</b> Lab #	Date/Time Sampled	Sample Description	Sample Matrix														Comments	No. of Bottles	Lab Use Only Containers/Pres.	
	<u>11/30/17</u> <u>1308</u>	<u>IR03-EB01-113017</u>	<u>AG</u>	<u>X</u>													<u>Equipment Blank</u>	<u>2</u>		
Sample Kit Prep'd by: (Signature) 		Date/Time <u>11/30/17</u> <u>1700</u>	Received By: (Signature) 		REMARKS:										Details: Page <u>1</u> of <u>1</u> Cooler No. <u>1</u> of <u>1</u> Date Shipped <u>11/30/17</u> Shipped By <u>CD</u> Turnaround _____					
Relinquished by: (Signature)		Date/Time	Received By: (Signature)																	
Relinquished by: (Signature)		Date/Time	Received By: (Signature)																	
Received for Laboratory by: (Signature)		Date/Time	Temperature																	

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.



Sample Log-in Checklist

Vista Work Order #: 1701827 TAT Std

Samples Arrival:	Date/Time 12/1/17 0920	Initials: BB IA	Location: WR-2 Shelf/Rack: N/A				
Logged In:	Date/Time 12/02/17 1140	Initials: BB	Location: WR-2 Shelf/Rack: B4				
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None			
Temp °C: 0.0	(uncorrected)	Time: 0940	Thermometer ID: DT-3				
Temp °C: 0.0	(corrected)	Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: IR-1				

		YES	NO	NA		
Adequate Sample Volume Received?		<input checked="" type="checkbox"/>				
Holding Time Acceptable?		<input checked="" type="checkbox"/>				
Shipping Container(s) Intact?		<input checked="" type="checkbox"/>				
Shipping Custody Seals Intact?		<input checked="" type="checkbox"/>				
Shipping Documentation Present?		<input checked="" type="checkbox"/>				
Airbill	Trk # 7887 0291 0288	<input checked="" type="checkbox"/>				
Sample Container Intact?		<input checked="" type="checkbox"/>				
Sample Custody Seals Intact?				<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Present?		<input checked="" type="checkbox"/>				
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				<input checked="" type="checkbox"/>		
Preservation Documented:	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Trizma	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Yes	No	NA
Shipping Container	<input checked="" type="checkbox"/> Vista	Client	<input checked="" type="checkbox"/> Retain	Return	Dispose	

Comments:

## **EXTRACTION INFORMATION**

Process Sheet  
Workorder: 1701827

**PRIORITY**

Prep Expiration: 2017-Dec-14  
Client: CH2M Hill

Workorder Due: 02-Jan-18 00:00  
TAT: 32

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

Prep Batch: B7L0037

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

Prep Data Entered: 12-12-17 HC  
Date and Initials

Initial Sequence: S7L0088

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701827-01	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IR03-EB01-113017		WR-2 B-4	HDPE Bottle, 125 mL

Pre-Prep Check Out: HN 12/9/17

Prep Check Out: HN 12/11/17

Prep Reconciled Initials/Date: HN 12/9/17

Pre-Prep Check In: HN 12/9/17

Prep Check In: NA

Spike Reconciled Initials/Date: HC 12-11-17

VialBoxID: Cleveland

PREPARATION BENCH SHEET

B7L0037

Matrix: Aqueous

Method: 537M Linear All/Branched/Total PFHxS/PFOA/

Method: 537M PFAS

Method: 537M PFAS DOD (LOQ as mL)

Prepared using: LCMS - SPE Extraction-LCMS

Chemist: HC

Prep Date/Time: 07-Dec-17 12:00

12-11-17 0900

HC

Date/Initials: 12/9/17 HN Balance ID: HRMS-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	RS CHEM/WIT DATE
<input type="checkbox"/>	B7L0037-BLK1 (A)(B)	5	2	0	5	NA	NA	(0.250)	HC HN 12-11-17	HN 12/11/17	HC HN 12-11-17
<input type="checkbox"/>	B7L0037-BS1	5	2	0	5						
<input type="checkbox"/>	B7L0037-BSD1	5	2	0	5						
<input type="checkbox"/>	1701799-01	7	2	0	6	274.52	26.61	0.24791			
<input type="checkbox"/>	1701809-01 (B)	5	2	0	2	143.48	26.73	0.11675			
<input type="checkbox"/>	1701809-02	6	2	0	2	140.34	26.76	0.11358			
<input type="checkbox"/>	1701822-01	6	2	0	5	280.12	27.56	0.25256			
<input type="checkbox"/>	1701822-02	5	2	0	5	281.91	27.63	0.25428			
<input type="checkbox"/>	1701822-03	4	2	0	2	282.11	27.04	0.25507			
<input type="checkbox"/>	1701822-04	6	2	0	5 <sup>HN 12/9/17</sup>	280.89	27.47	0.25342			
<input type="checkbox"/>	1701822-05	6	2	0	4	277.97	27.83	0.25014			
<input type="checkbox"/>	1701822-06	5	2	0	4	273.71	27.69	0.24603			
<input type="checkbox"/>	1701822-07	5	2	0	4	271.39	27.51	0.24389			
<input type="checkbox"/>	1701822-08	5	2	0	4	276.99	27.59	0.24940			
<input type="checkbox"/>	1701822-09	6	2	0	4	270.23	27.65	0.24258			
<input type="checkbox"/>	1701822-10	6	2	0	5	269.06	27.56	0.24150			

IS: 17L0402, 10µl (V5)  
 IS SUR: (B) 17K0825, 20µl (V2)  
 NS: 17J1820, 10µl (V2)  
 RS: 17K2502, 10µl (V4)

SPE Chem: Strata-X-AW 33µm <sup>200mg</sup> 6mL  
 Elc SOLV: MeOH/0.5% NH4OH in MeOH  
 Final Volume(s) 1mL

Notes: (A) 1.25g Trizma added HN 12/9/17

Comments: Assume 1 g = 1 mL

Cen = Centrifuge for 1701827



PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M Linear All/Branched/Total PFHxS/PFOA/

Method: 537M PFAS

Method: 537M PFAS DOD (LOQ as mRL)

Prepared using: LCMS - SPE Extraction-LCMS

B7L0037

Chemist: HC

Prep Date/Time: 07-Dec-17 12:00

12-11-17 0900

HC

		Date/Inits: 12/9/17 HN				BalanceID: HRMS-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	RS CHEM/WIT DATE
<input type="checkbox"/>	1701827-01	5	2	0	3	276.32	27.80	0.24852	HC HN 12-11-17	HN 12/11/17	HC HN 12-11-17
<input type="checkbox"/>	1701847-01	5	2	0	2	142.72	26.75	0.11597	↓	↓	↓
<input type="checkbox"/>	1701847-02	5	2	0	2	141.13	26.85	0.11428			
<input type="checkbox"/>	1701847-03	5	2	0	2	139.33	26.96	0.11243			
<input type="checkbox"/>	1701847-04	10	2	0	2	141.97	26.92	0.11505			
<input type="checkbox"/>	1701847-05	5	2	0	2	144.33	26.79	0.11754			
<input type="checkbox"/>	1701847-05	5	2	0	2	144.33	26.79	0.11754			

IS: <u>1710402, 10µL (V5)</u> IS SUP: <u>17K0875, 20µL (V2)</u> NS: <u>17J1826, 10µL (V2)</u> RS: <u>17K2502, 10µL (V4)</u>	SPE Chem: <u>Strata X AW 33µm 200mg 6mL</u> Ele SOLV: <u>MeOH/0.5% NH4OH in MeOH</u> Final Volume(s) <u>1mL</u>	Notes:
--	---	--------

Comments: Assume 1 g = 1 mL

Cen = Centrifuge 1701827

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M Linear All/Branched/Total PFHxS/PFOA/

Method: 537M PFAS

Method: 537M PFAS DOD (LOQ as mRL)

B7L0037

Chemist: htc  
 Prep Date/Time: 07-~~Dec~~-17 12:00  
 12-11-17 0900

Prepared using: LCMS - SPE Extraction-LCMS

		Date/Initials: 12/11/17 HNV				BalanceID: HARM5-8						
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	RS CHEM/WIT DATE	
<input type="checkbox"/>	1701827-01											
<input type="checkbox"/>	1701847-01											
<input type="checkbox"/>	1701847-02											
<input type="checkbox"/>	1701847-03											
<input type="checkbox"/>	1701847-04								HN 12/11/17			
<input type="checkbox"/>	1701847-05											
<input type="checkbox"/>	1701879-01 (B)	6	2	0	7	267.89	26.67	0.2422	htc HNV 12-11-17	HNV 12/11/17	htc HNV 12-11-17	

IS: 1720402, 10µL (V5) IS SUP: (B) 17K0825, 20µL (V2) NS: 17J1824, 10µL RS: 17K2502, 10µL (V4)	SPE Chem: Strata X-AW 33µm <sup>200mg</sup> 6mL Ele SOLV: MeOH / 0.5% NH4OH in MeOH Final Volume(s) 1 mL	Notes:
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Comments: Assume 1 g = 1 mL

Cen = Centrifuged

Batch: B7L0037

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701799-01	0.24791 ✓	NA	NA	1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS
1701809-01	0.11675 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701809-02	0.11358 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701822-01	0.25256 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-02	0.25428 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-03	0.25507 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M Linear All/Branched/
1701822-04	0.25342 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-05	0.25014 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-06	0.24603 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-07	0.24388 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-08	0.2494 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-09	0.24258 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701822-10	0.2415 ✓			1000	11-Dec-17 09:00	HAC			Drinking Water	537M Linear All/Branched/
1701827-01	0.24852 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701847-01	0.11597 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS
1701847-02	0.11428 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS
1701847-03	0.11243 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS
1701847-04	0.11505 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS
1701847-05	0.11754 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS
1701879-01	0.24122 ✓			1000	11-Dec-17 09:00	HAC			Aqueous	537M PFAS
B7L0037-BLK1	0.25			1000	11-Dec-17 09:00	HAC				QC
B7L0037-BS1	0.25			1000	11-Dec-17 09:00	HAC	17J1820 ✓	10		QC
B7L0037-BSD1	0.25			1000	11-Dec-17 09:00	HAC	17J1820 ✓	10		QC

HC  
12/12/17

**SAMPLE DATA – MODIFIED EPA METHOD 537**

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_18.qld

Last Altered: Tuesday, December 26, 2017 16:09:49 Pacific Standard Time

Printed: Tuesday, December 26, 2017 16:10:12 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 14:44:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, 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		6.10e3	0.2500		1.47				
2	2 PFPeA	263.1 > 218.9		7.96e3	0.2500		2.44				
3	3 PFBS	299.0 > 79.7		1.11e3	0.2500		2.70				
4	4 PFHxA	313.2 > 268.9		2.87e3	0.2500		3.20				
5	5 PFHpA	363.0 > 318.9		5.49e3	0.2500		3.80				
6	6 L-PFHxS	398.9 > 79.6		8.78e2	0.2500		3.95				
7	8 6:2 FTS	427.1 > 407		8.55e3	0.2500		4.26				
8	9 L-PFOA	413 > 368.7		8.55e3	0.2500		4.32				
9	11 PFHpS	449 > 80.0		8.55e3	0.2500		4.43				
10	12 PFNA	463.0 > 418.8		6.70e3	0.2500		4.75				
11	13 PFOSA	498.1 > 77.8		1.36e3	0.2500		4.81				
12	14 L-PFOS	499 > 79.9		2.22e3	0.2500		4.83				
13	16 PFDA	513 > 468.8		5.75e3	0.2500		5.11				
14	17 8:2 FTS	527 > 506.9		5.75e3	0.2500		5.09				
15	18 N-MeFOSAA	570.1 > 419		2.45e3	0.2500		5.26				
16	19 N-EtFOSAA	584.2 > 419		2.10e3	0.2500		5.42				
17	20 PFUdA	563.0 > 518.9		6.06e3	0.2500		5.43				
18	21 PFDS	598.8 > 80		6.06e3	0.2500		5.50				
19	22 PFDoA	612.9 > 569.0		4.05e3	0.2500		5.70				
20	23 N-MeFOSA	512.1 > 168.9		3.58e3	0.2500		5.77				
21	24 PFTrDA	662.9 > 618.9		5.65e3	0.2500		5.95				
22	25 PFTeDA	712.9 > 668.8		5.65e3	0.2500		6.16				
23	26 N-EtFOSA	526.1 > 168.9		5.49e3	0.2500		6.15				
24	27 PFHxDA	813.1 > 768.6		2.52e3	0.2500		6.48				
25	29 N-MeFOSE	616.1 > 58.9		7.95e3	0.2500		6.30				
26	30 N-EtFOSE	630.1 > 58.9		9.36e3	0.2500		6.42				
27	31 13C3-PFBA	216.1 > 171.8	6.10e3	6.93e3	0.2500	0.895	1.47	1.48	11.0	49.236	98.5
28	32 13C3-PFPeA	266. > 221.8	7.96e3	9.15e3	0.2500	0.867	2.44	2.44	10.9	50.158	100.3
29	33 13C3-PFBS	302. > 98.8	1.11e3	9.15e3	0.2500	0.109	2.70	2.71	1.52	56.126	112.3
30	34 13C2-PFHxA	315 > 269.8	2.87e3	9.15e3	0.2500	0.777	3.20	3.20	3.92	20.176	100.9
31	35 13C4-PFHpA	367.2 > 321.8	5.49e3	9.15e3	0.2500	0.600	3.80	3.81	7.50	49.998	100.0
32	36 18O2-PFHxS	403.0 > 102.6	8.78e2	2.27e3	0.2500	0.444	3.95	3.95	4.83	43.438	86.9

ANP 12/26/2017

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_18.qld

Last Altered: Tuesday, December 26, 2017 16:09:49 Pacific Standard Time

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Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, Description: Method Blank

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37 13C2-6:2 FTS	429.1 > 408.9	2.11e3	7.81e3	0.2500	0.385	4.26	4.26	3.38	35.119	70.2
34	38 13C2-PFOA	414.9 > 369.7	8.55e3	7.81e3	0.2500	1.237	4.32	4.32	13.7	44.281	88.6
35	39 13C5-PFNA	468.2 > 422.9	6.70e3	8.78e3	0.2500	0.911	4.75	4.75	9.54	41.862	83.7
36	40 13C8-PFOA	506.1 > 77.7	1.36e3	8.64e3	0.2500	0.400	4.81	4.81	1.97	19.657	39.3
37	41 13C8-PFOS	507.0 > 79.9	2.22e3	2.05e3	0.2500	1.009	4.83	4.83	13.5	53.705	107.4
38	42 13C2-PFDA	515.1 > 469.9	5.75e3	7.78e3	0.2500	1.195	5.11	5.11	9.23	30.882	61.8
39	43 13C2-8:2 FTS	529.1 > 508.7	9.97e2	9.15e3	0.2500	0.168	5.09	5.09	1.36	32.385	64.8
40	44 d3-N-MeFOSAA	573.3 > 419	2.45e3	8.64e3	0.2500	0.418	5.26	5.26	3.54	33.835	67.7
41	45 d5-N-EtFOSAA	589.3 > 419	2.10e3	8.64e3	0.2500	0.445	5.42	5.41	3.04	27.297	54.6
42	46 13C2-PFUdA	565 > 519.8	6.06e3	8.64e3	0.2500	1.212	5.43	5.43	8.76	28.912	57.8
43	47 13C2-PFDoA	615.0 > 569.7	4.05e3	8.64e3	0.2500	0.685	5.70	5.71	5.86	34.186	68.4
44	48 d3-N-MeFOSA	515.2 > 168.9	3.58e3	8.64e3	0.2500	0.155	5.80	5.79	5.18	133.395	22.2
45	49 13C2-PFTeDA	714.8 > 669.6	5.65e3	8.64e3	0.2500	0.597	6.16	6.16	8.17	54.810	109.6
46	50 d5-N-ETFOSA	531.1 > 168.9	5.49e3	8.64e3	0.2500	0.227	6.16	6.17	7.94	139.675	23.3
47	51 13C2-PFHxDA	815 > 769.7	2.52e3	8.64e3	0.2500	0.902	6.48	6.48	3.65	16.184	80.9
48	52 d7-N-MeFOSE	623.1 > 58.9	7.95e3	8.64e3	0.2500	0.214	6.30	6.29	11.5	214.667	35.8
49	53 d9-N-EtFOSE	639.2 > 58.8	9.36e3	8.64e3	0.2500	0.219	6.42	6.44	13.5	247.608	41.3
50	54 13C4-PFBA	217. > 171.8	6.93e3	6.93e3	0.2500	1.000	1.47	1.48	12.5	50.000	100.0
51	55 13C5-PFHxA	318 > 272.9	9.15e3	9.15e3	0.2500	1.000	3.20	3.20	12.5	50.000	100.0
52	56 13C3-PFHxS	401.9 > 79.9	2.27e3	2.27e3	0.2500	1.000	3.95	3.95	12.5	50.000	100.0
53	57 13C8-PFOA	421.3 > 376	7.81e3	7.81e3	0.2500	1.000	4.32	4.32	12.5	50.000	100.0
54	58 13C9-PFNA	472.2 > 426.9	8.78e3	8.78e3	0.2500	1.000	4.75	4.75	12.5	50.000	100.0
55	59 13C4-PFOS	503 > 79.9	2.05e3	2.05e3	0.2500	1.000	4.83	4.83	12.5	50.000	100.0
56	60 13C6-PFDA	519.1 > 473.7	7.78e3	7.78e3	0.2500	1.000	5.11	5.11	12.5	50.000	100.0
57	61 13C7-PFUdA	570.1 > 524.8	8.64e3	8.64e3	0.2500	1.000	5.43	5.43	12.5	50.000	100.0
58	62 Total PFHxS	398.9 > 79.6	0.00e0	8.78e2	0.2500		4.00		0.000		
59	63 Total PFOA	413 > 368.7	0.00e0	8.55e3	0.2500		4.30		0.000		
60	64 Total PFOS	499 > 79.9	0.00e0	2.22e3	0.2500		4.80		0.000		
61	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.45e3	0.2500		5.20		0.000		
62	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.10e3	0.2500		5.40		0.000		

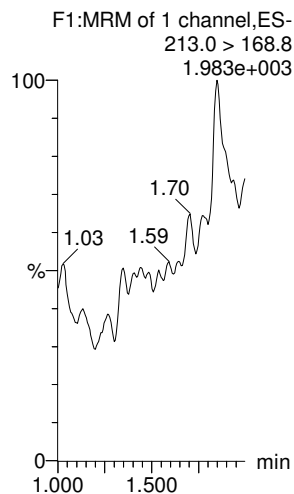
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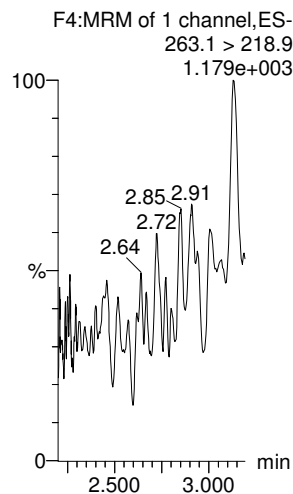
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Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, Description: Method Blank

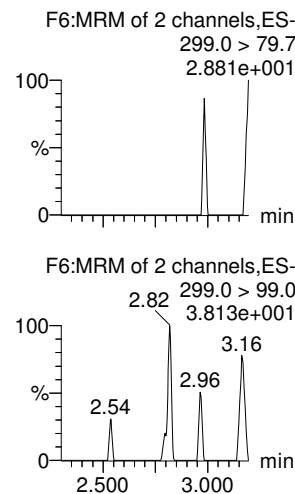
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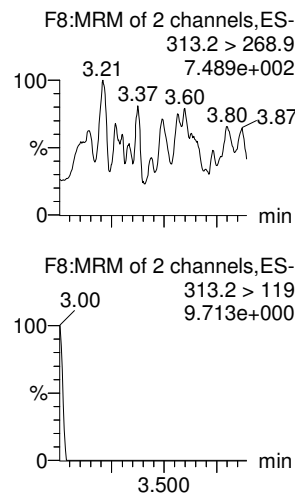
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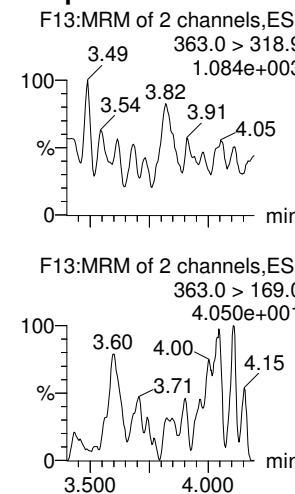
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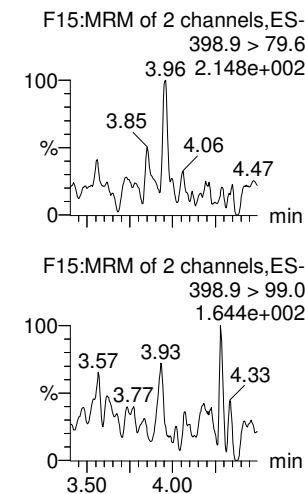
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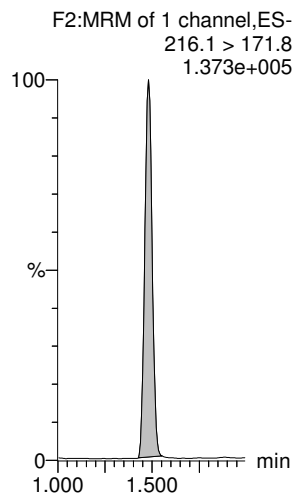
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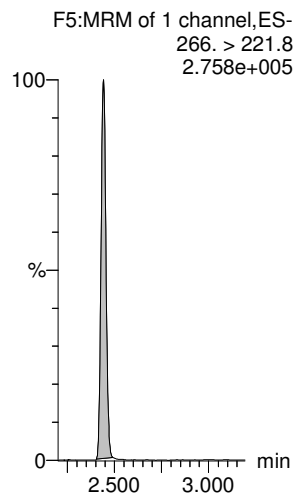
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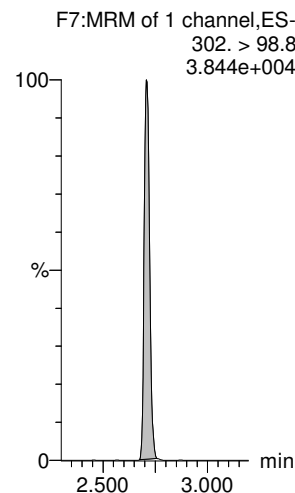
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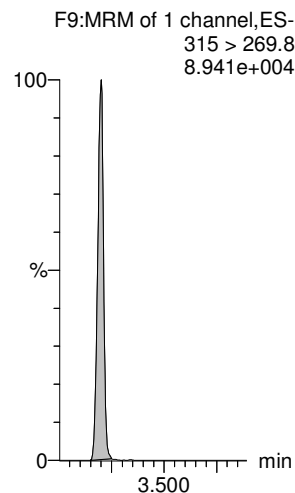
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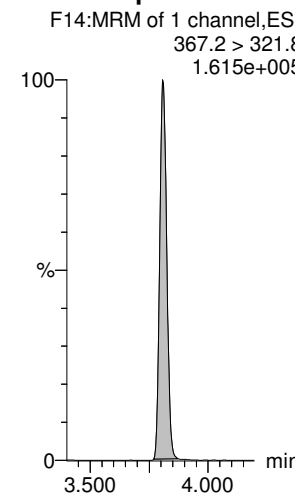
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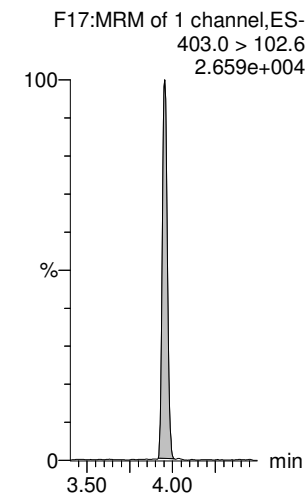
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

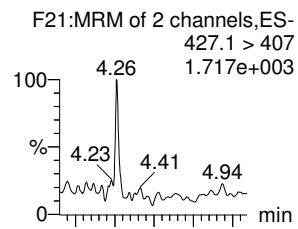


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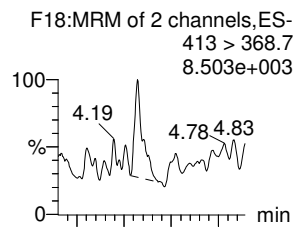
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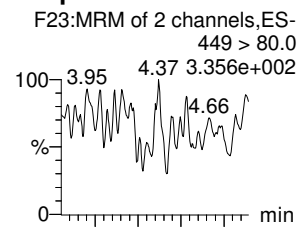
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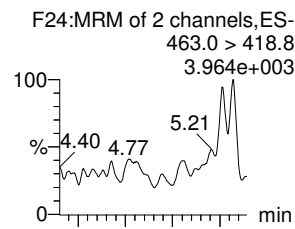
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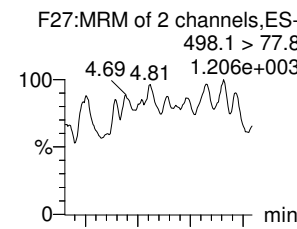
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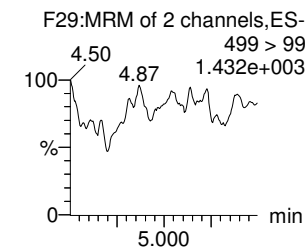
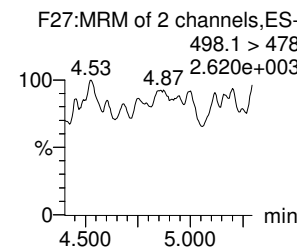
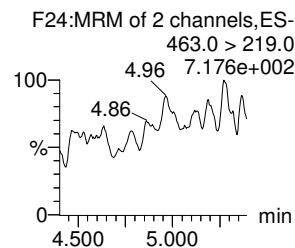
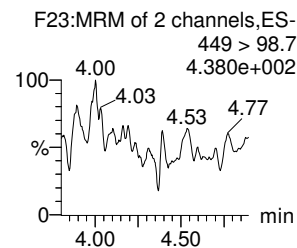
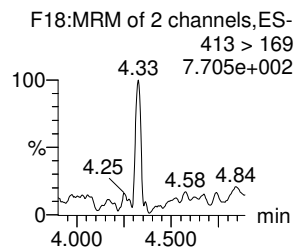
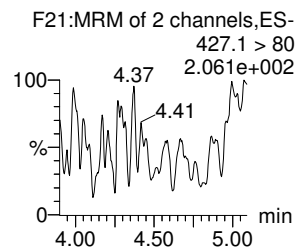
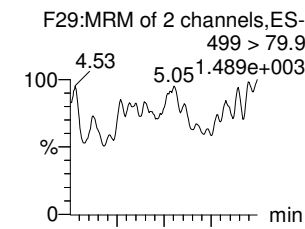
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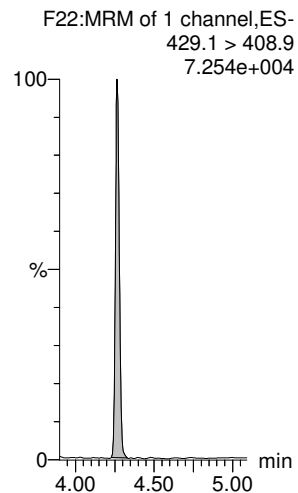
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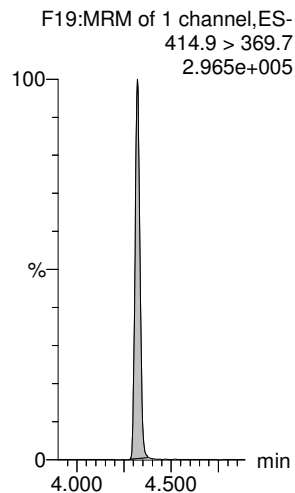
**L-PFOS**



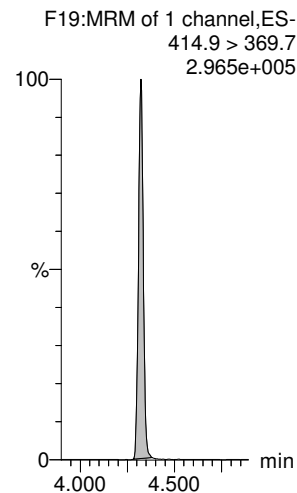
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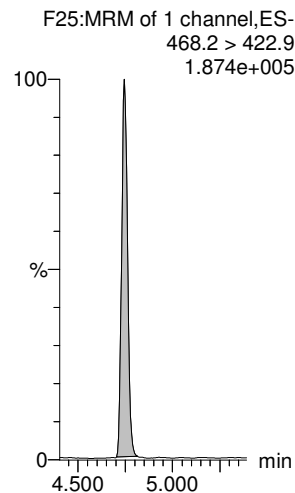
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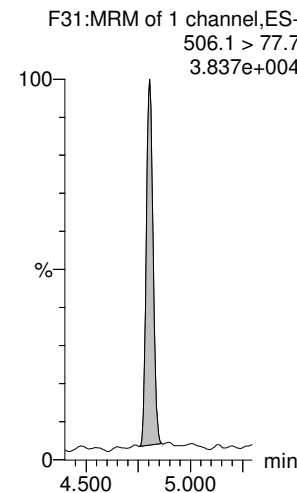
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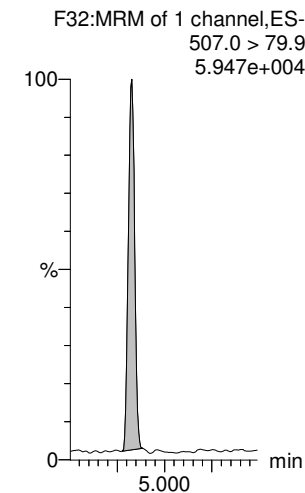
**13C5-PFNA**



**13C8-PFOSA**



**13C8-PFOS**





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Last Altered: Tuesday, December 26, 2017 16:09:49 Pacific Standard Time  
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Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, Description: Method Blank

**PFDA**

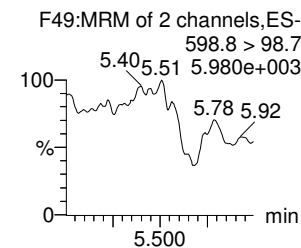
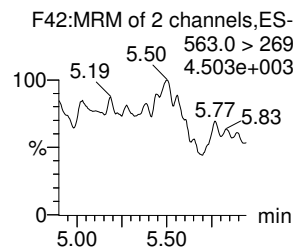
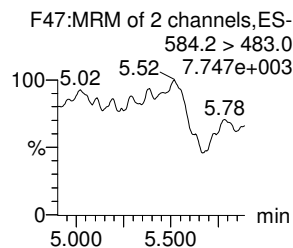
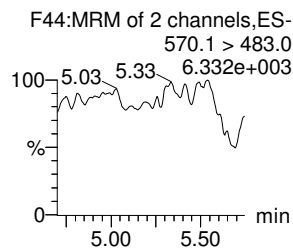
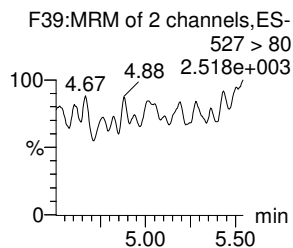
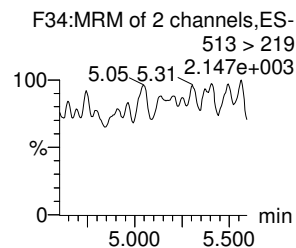
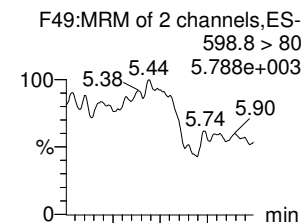
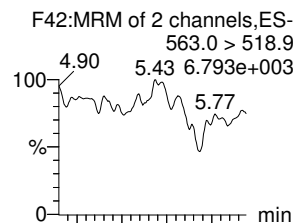
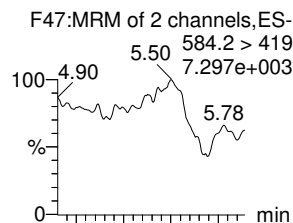
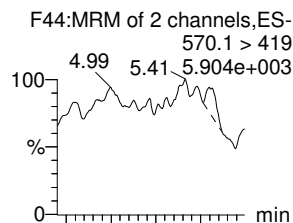
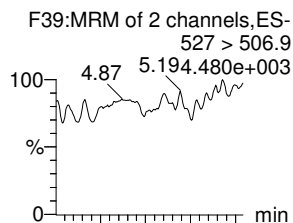
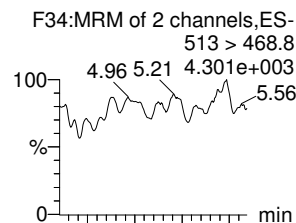
**8:2 FTS**

**N-MeFOSAA**

**N-EtFOSAA**

**PFUdA**

**PFDS**



**13C2-PFDA**

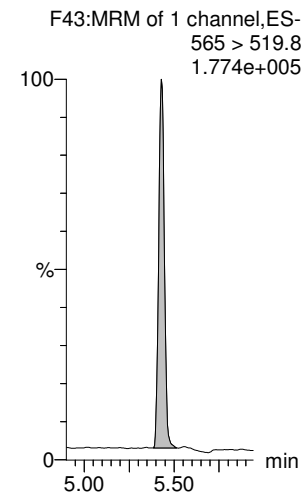
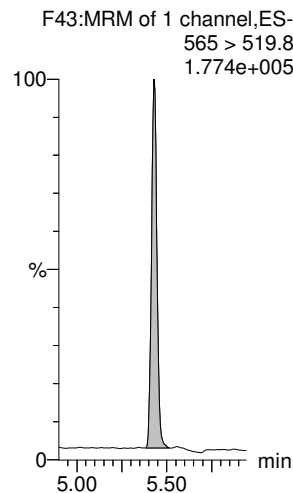
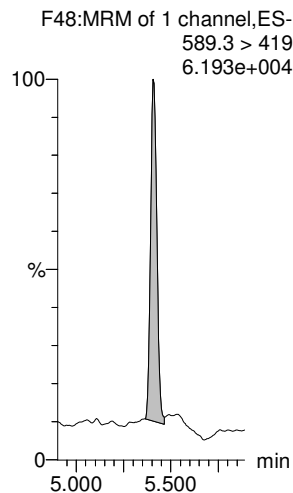
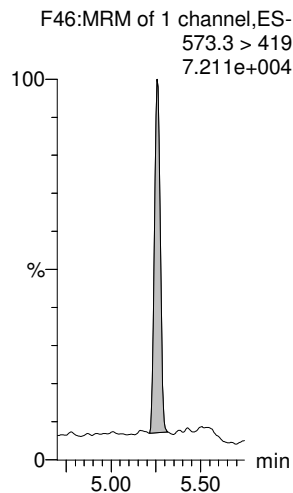
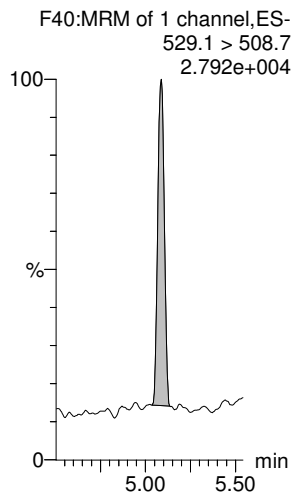
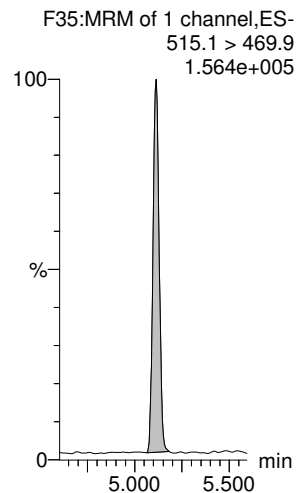
**13C2-8:2 FTS**

**d3-N-MeFOSAA**

**d5-N-EtFOSAA**

**13C2-PFUdA**

**13C2-PFUdA**



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_18.qld

Last Altered: Tuesday, December 26, 2017 16:09:49 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 16:10:12 Pacific Standard Time

Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, Description: Method Blank

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

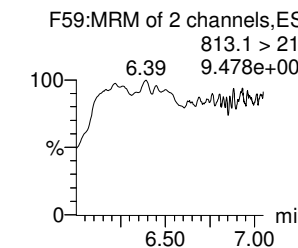
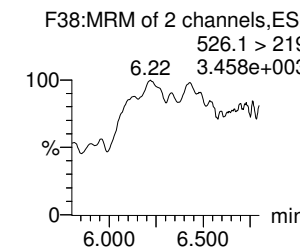
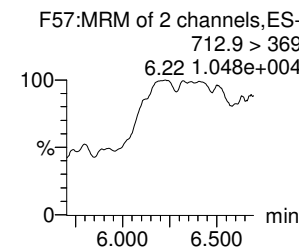
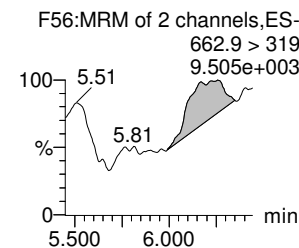
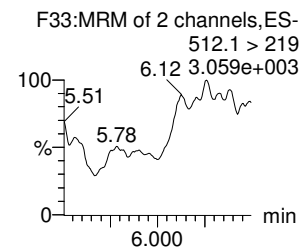
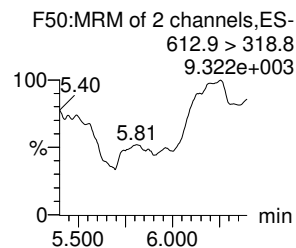
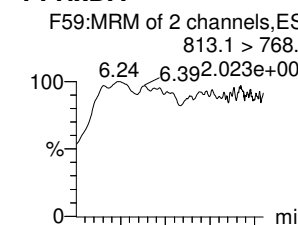
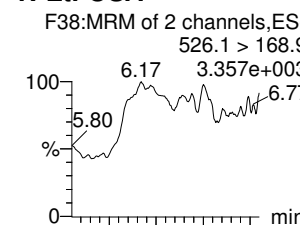
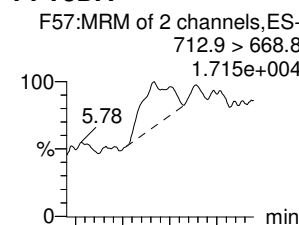
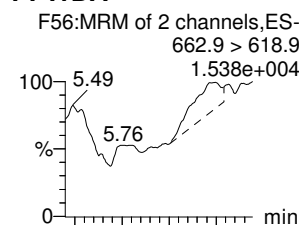
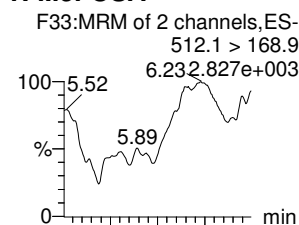
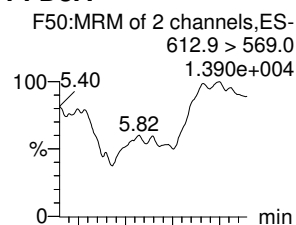
**N-MeFOSA**

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

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

**N-EtFOSA**

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



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

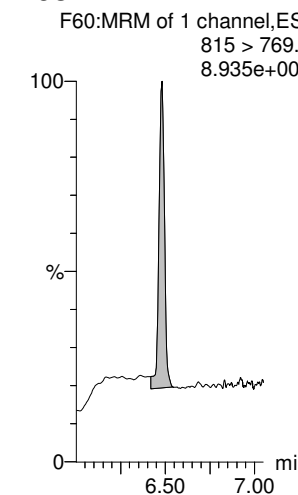
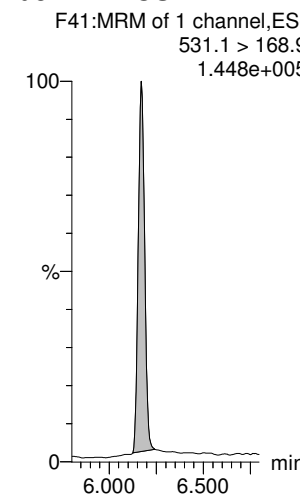
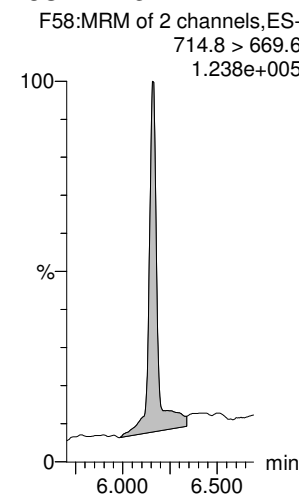
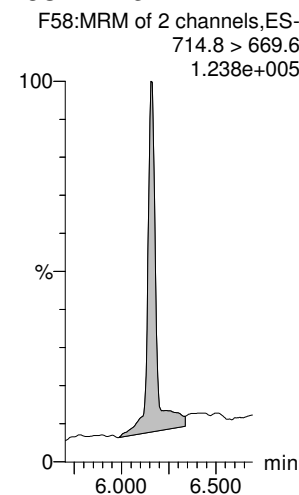
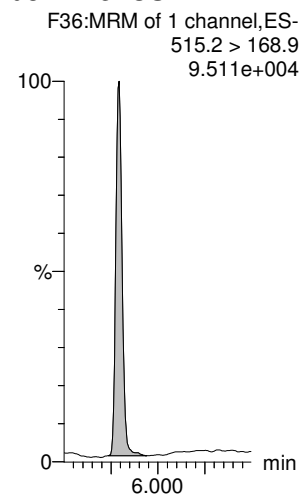
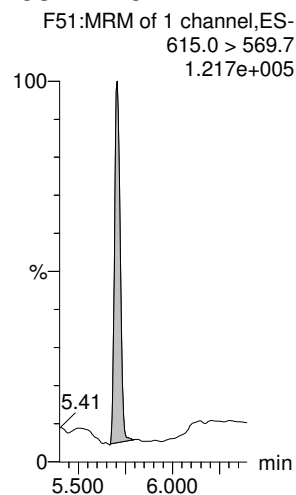
**d3-N-MeFOSA**

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

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

**d5-N-ETFOA**

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



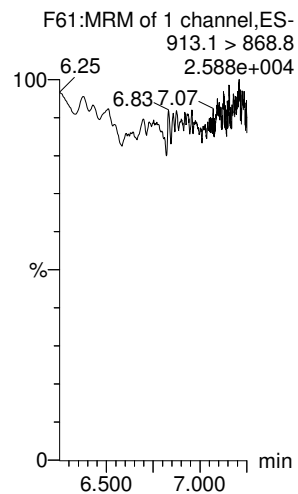
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Last Altered: Tuesday, December 26, 2017 16:09:49 Pacific Standard Time

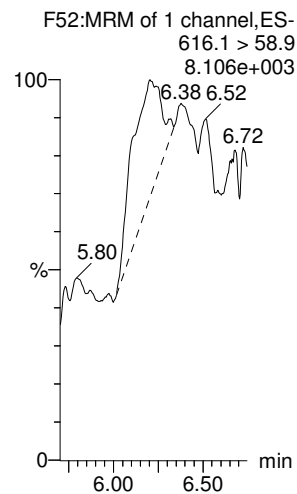
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Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, Description: Method Blank

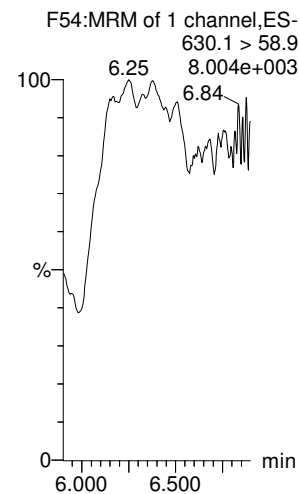
**PFODA**



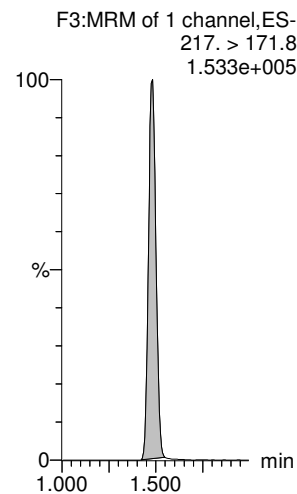
**N-MeFOSE**



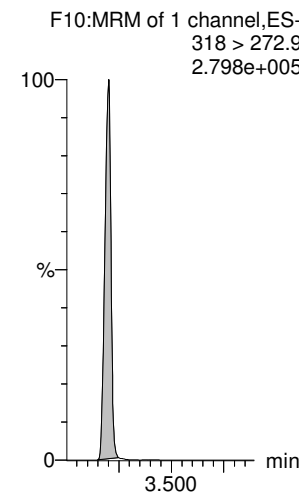
**N-EtFOSE**



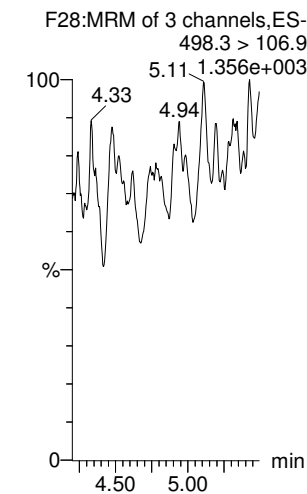
**13C4-PFBA**



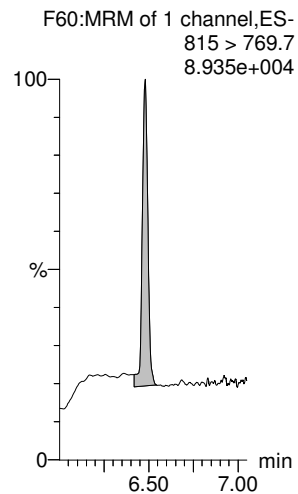
**13C5-PFHxA**



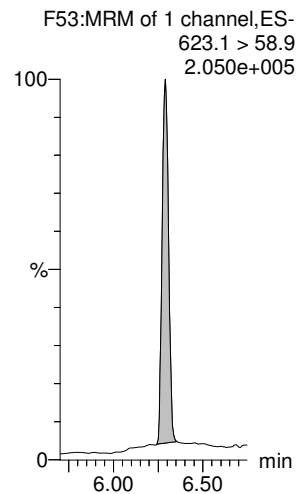
**TCDA**



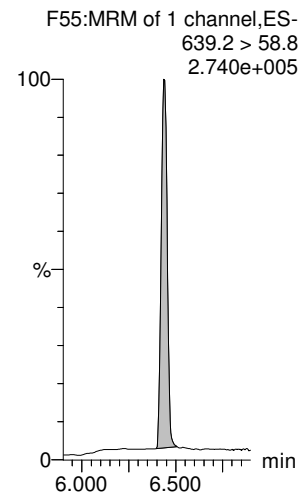
**13C2-PFHxDA**



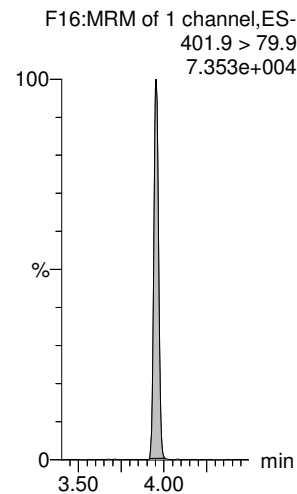
**d7-N-MeFOSE**



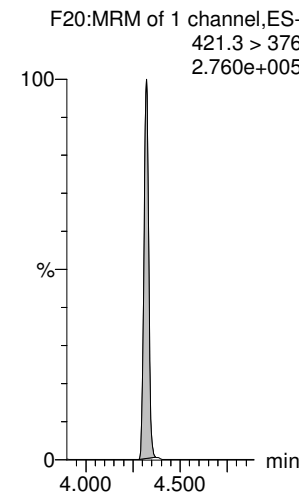
**d9-N-EtFOSE**



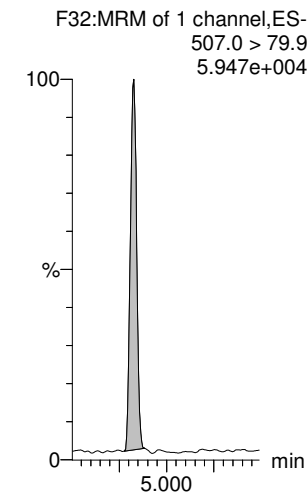
**13C3-PFHxS**



**13C8-PFOA**



**13C8-PFOS**



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_18.qld

Last Altered: Tuesday, December 26, 2017 16:09:49 Pacific Standard Time  
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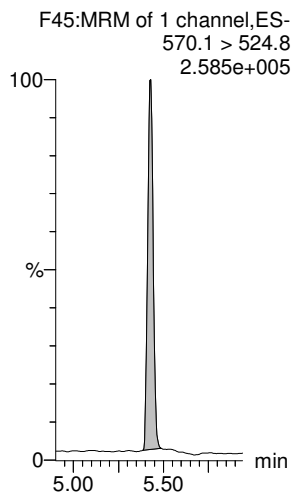
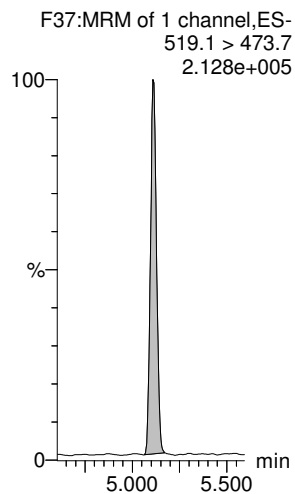
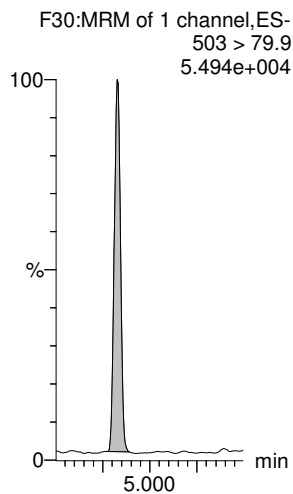
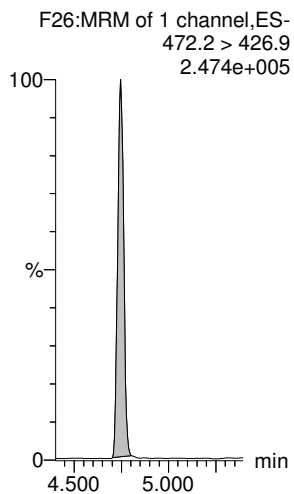
Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, Description: Method Blank

**13C9-PFNA**

**13C4-PFOS**

**13C6-PFDA**

**13C7-PFUdA**



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_15.qld

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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 14:44:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

Name: 171224M1\_15, Date: 24-Dec-2017, Time: 15:02:08, ID: B7L0037-BS1 OPR 0.25, 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	6.28e3	5.84e3	0.2500		1.47	1.48	13.4	44.372	110.9
2	2 PFPeA	263.1 > 218.9	6.90e3	8.13e3	0.2500		2.44	2.44	10.6	39.428	98.6
3	3 PFBS	299.0 > 79.7	1.98e3	1.02e3	0.2500		2.70	2.71	24.4	46.056	115.1
4	4 PFHxA	313.2 > 268.9	8.96e3	2.88e3	0.2500		3.20	3.20	15.6	42.644	106.6
5	5 PFHpA	363.0 > 318.9	6.48e3	5.64e3	0.2500		3.80	3.81	14.4	37.484	93.7
6	6 L-PFHxS	398.9 > 79.6	1.52e3	9.12e2	0.2500		3.95	3.95	20.9	36.979	92.4
7	8 6:2 FTS	427.1 > 407	1.91e3	8.42e3	0.2500		4.26	4.27	2.83	51.698	129.2
8	9 L-PFOA	413 > 368.7	6.87e3	8.42e3	0.2500		4.32	4.32	10.2	36.160	90.4
9	11 PFHpS	449 > 80.0	1.76e3	8.42e3	0.2500		4.43	4.43	2.61	41.591	104.0
10	12 PFNA	463.0 > 418.8	6.94e3	5.55e3	0.2500		4.75	4.75	15.6	42.494	106.2
11	13 PFOSA	498.1 > 77.8	1.20e3	1.49e3	0.2500		4.81	4.80	10.1	42.810	107.0
12	14 L-PFOS	499 > 79.9	2.02e3	1.75e3	0.2500		4.83	4.83	14.4	51.571	128.9
13	16 PFDA	513 > 468.8	7.00e3	5.00e3	0.2500		5.11	5.11	17.5	51.549	128.9
14	17 8:2 FTS	527 > 506.9	1.47e3	5.00e3	0.2500		5.09	5.09	3.67	57.384	143.5
15	18 N-MeFOSAA	570.1 > 419	3.56e3	2.13e3	0.2500		5.26	5.26	20.9	42.012	105.0
16	19 N-EtFOSAA	584.2 > 419	2.60e3	2.83e3	0.2500		5.42	5.42	11.5	35.613	89.0
17	20 PFUDa	563.0 > 518.9	4.63e3	5.27e3	0.2500		5.43	5.43	11.0	41.443	103.6
18	21 PFDS	598.8 > 80	1.99e3	5.27e3	0.2500		5.50	5.47	4.71	59.721	149.3
19	22 PFDoA	612.9 > 569.0	6.32e3	3.37e3	0.2500		5.70	5.71	23.4	44.624	111.6
20	23 N-MeFOSA	512.1 > 168.9	1.43e3	3.62e3	0.2500		5.77	5.77	59.1	228.248	114.1
21	24 PFTDA	662.9 > 618.9	6.67e3	3.96e3	0.2500		5.95	5.94	21.1	34.318	85.8
22	25 PFTeDA	712.9 > 668.8	5.63e3	3.96e3	0.2500		6.16	6.16	17.8	38.255	95.6
23	26 N-EtFOSA	526.1 > 168.9	1.81e3	5.47e3	0.2500		6.15	6.15	49.8	206.369	103.2
24	27 PFHxDA	813.1 > 768.6	2.76e3	2.07e3	0.2500		6.48	6.48	6.67	43.824	109.6
25	29 N-MeFOSE	616.1 > 58.9	3.54e3	9.27e3	0.2500		6.30	6.30	57.3	215.342	107.7
26	30 N-EtFOSE	630.1 > 58.9	3.33e3	7.97e3	0.2500		6.42	6.45	62.5	224.910	112.5
27	31 13C3-PFBA	216.1 > 171.8	5.84e3	6.91e3	0.2500	0.895	1.47	1.47	10.6	47.272	94.5
28	32 13C3-PFPeA	266. > 221.8	8.13e3	9.76e3	0.2500	0.867	2.44	2.44	10.4	47.978	96.0
29	33 13C3-PFBS	302. > 98.8	1.02e3	9.76e3	0.2500	0.109	2.70	2.71	1.30	47.987	96.0
30	34 13C2-PFHxA	315 > 269.8	2.88e3	9.76e3	0.2500	0.777	3.20	3.20	3.68	18.941	94.7
31	35 13C4-PFHpA	367.2 > 321.8	5.64e3	9.76e3	0.2500	0.600	3.80	3.81	7.21	48.113	96.2
32	36 18O2-PFHxS	403.0 > 102.6	9.12e2	2.27e3	0.2500	0.444	3.95	3.95	5.01	45.085	90.2

ANP 12/26/2017

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_15.qld

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Printed: Tuesday, December 26, 2017 15:57:51 Pacific Standard Time

Name: 171224M1\_15, Date: 24-Dec-2017, Time: 15:02:08, ID: B7L0037-BS1 OPR 0.25, Description: OPR

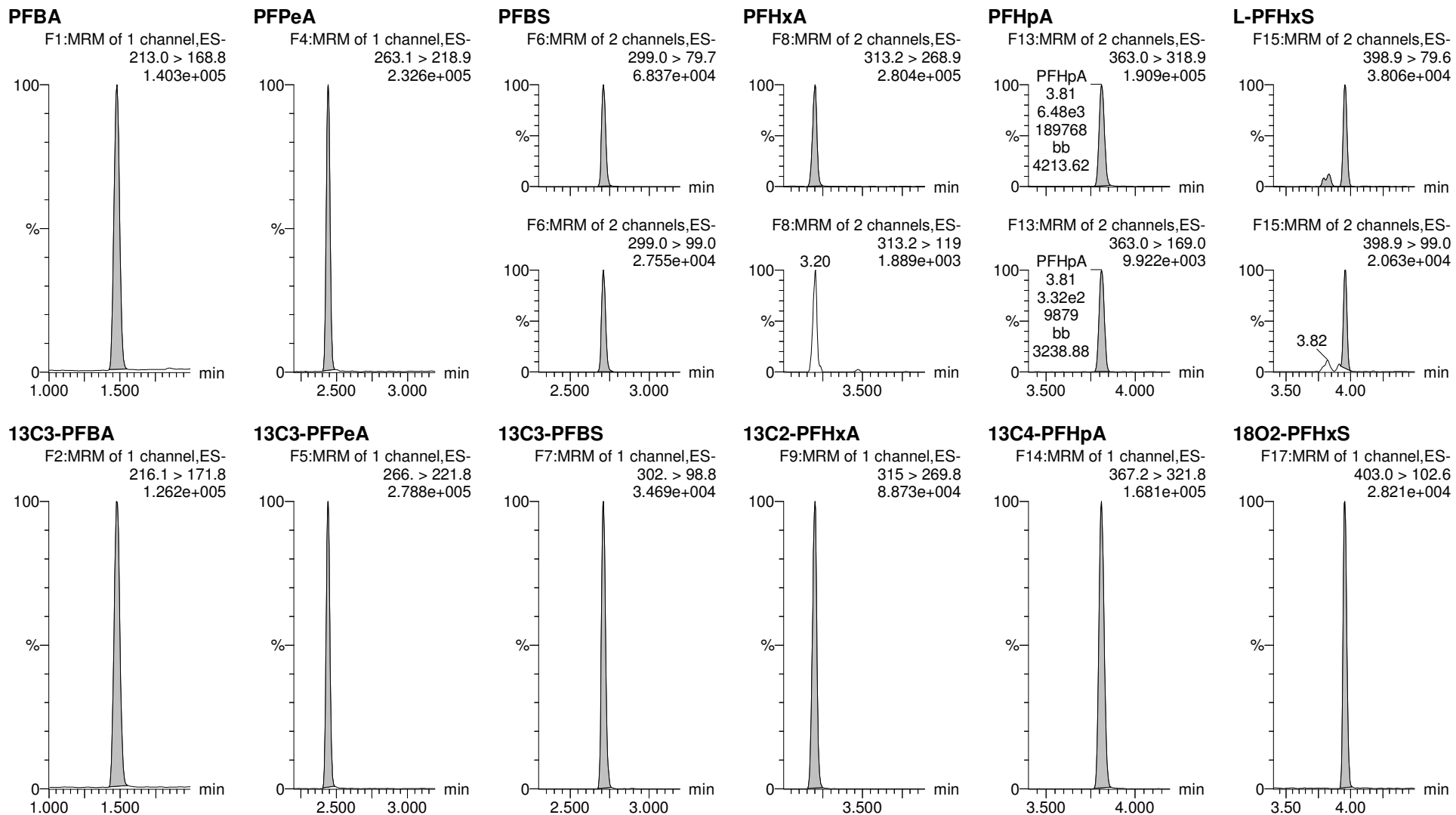
	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37 13C2-6:2 FTS	429.1 > 408.9	1.88e3	7.65e3	0.2500	0.385	4.26	4.27	3.08	32.004	64.0
34	38 13C2-PFOA	414.9 > 369.7	8.42e3	7.65e3	0.2500	1.237	4.32	4.32	13.8	44.522	89.0
35	39 13C5-PFNA	468.2 > 422.9	5.55e3	7.85e3	0.2500	0.911	4.75	4.75	8.84	38.795	77.6
36	40 13C8-PFOA	506.1 > 77.7	1.49e3	7.68e3	0.2500	0.400	4.81	4.81	2.42	24.175	48.3
37	41 13C8-PFOS	507.0 > 79.9	1.75e3	2.38e3	0.2500	1.009	4.83	4.83	9.18	36.402	72.8
38	42 13C2-PFDA	515.1 > 469.9	5.00e3	6.35e3	0.2500	1.195	5.11	5.11	9.84	32.940	65.9
39	43 13C2-8:2 FTS	529.1 > 508.7	9.24e2	9.76e3	0.2500	0.168	5.09	5.09	1.18	28.105	56.2
40	44 d3-N-MeFOSAA	573.3 > 419	2.13e3	7.68e3	0.2500	0.418	5.26	5.26	3.46	33.080	66.2
41	45 d5-N-EtFOSAA	589.3 > 419	2.83e3	7.68e3	0.2500	0.445	5.42	5.41	4.60	41.406	82.8
42	46 13C2-PFUdA	565 > 519.8	5.27e3	7.68e3	0.2500	1.212	5.43	5.43	8.58	28.319	56.6
43	47 13C2-PFDoA	615.0 > 569.7	3.37e3	7.68e3	0.2500	0.685	5.70	5.70	5.49	32.064	64.1
44	48 d3-N-MeFOSA	515.2 > 168.9	3.62e3	7.68e3	0.2500	0.155	5.80	5.79	5.89	151.692	25.3
45	49 13C2-PFTeDA	714.8 > 669.6	3.96e3	7.68e3	0.2500	0.597	6.16	6.16	6.45	43.226	86.5
46	50 d5-N-ETFOSA	531.1 > 168.9	5.47e3	7.68e3	0.2500	0.227	6.16	6.17	8.90	156.655	26.1
47	51 13C2-PFHxDA	815 > 769.7	2.07e3	7.68e3	0.2500	0.902	6.48	6.48	3.37	14.927	74.6
48	52 d7-N-MeFOSE	623.1 > 58.9	9.27e3	7.68e3	0.2500	0.214	6.30	6.29	15.1	281.703	47.0
49	53 d9-N-EtFOSE	639.2 > 58.8	7.97e3	7.68e3	0.2500	0.219	6.42	6.44	13.0	237.516	39.6
50	54 13C4-PFBA	217. > 171.8	6.91e3	6.91e3	0.2500	1.000	1.47	1.48	12.5	50.000	100.0
51	55 13C5-PFHxA	318 > 272.9	9.76e3	9.76e3	0.2500	1.000	3.20	3.20	12.5	50.000	100.0
52	56 13C3-PFHxS	401.9 > 79.9	2.27e3	2.27e3	0.2500	1.000	3.95	3.95	12.5	50.000	100.0
53	57 13C8-PFOA	421.3 > 376	7.65e3	7.65e3	0.2500	1.000	4.32	4.32	12.5	50.000	100.0
54	58 13C9-PFNA	472.2 > 426.9	7.85e3	7.85e3	0.2500	1.000	4.75	4.75	12.5	50.000	100.0
55	59 13C4-PFOS	503 > 79.9	2.38e3	2.38e3	0.2500	1.000	4.83	4.83	12.5	50.000	100.0
56	60 13C6-PFDA	519.1 > 473.7	6.35e3	6.35e3	0.2500	1.000	5.11	5.11	12.5	50.000	100.0
57	61 13C7-PFUdA	570.1 > 524.8	7.68e3	7.68e3	0.2500	1.000	5.43	5.43	12.5	50.000	100.0
58	62 Total PFHxS	398.9 > 79.6	1.52e3	9.12e2	0.2500		4.00		20.9	36.979	
59	63 Total PFOA	413 > 368.7	6.87e3	8.42e3	0.2500		4.30		10.2	36.160	
60	64 Total PFOS	499 > 79.9	2.02e3	1.75e3	0.2500		4.80		14.4	51.571	
61	65 Total N-MeFOSAA	570.1 > 419	3.63e3	2.13e3	0.2500		5.20		21.4	43.148	
62	66 Total N-EtFOSAA	584.2 > 419	2.69e3	2.83e3	0.2500		5.40		11.9	36.959	

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Name: 171224M1\_15, Date: 24-Dec-2017, Time: 15:02:08, ID: B7L0037-BS1 OPR 0.25, Description: OPR



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_15.qld

Last Altered: Tuesday, December 26, 2017 15:57:28 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 15:57:51 Pacific Standard Time

Name: 171224M1\_15, Date: 24-Dec-2017, Time: 15:02:08, ID: B7L0037-BS1 OPR 0.25, Description: OPR

**6:2 FTS**

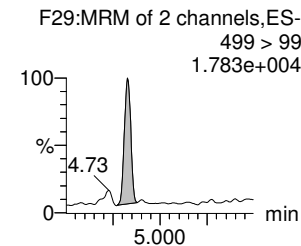
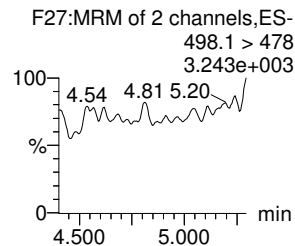
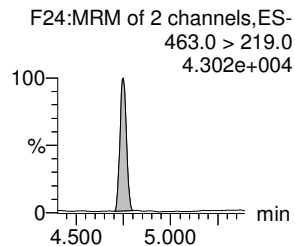
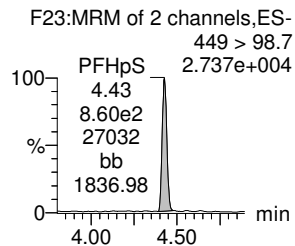
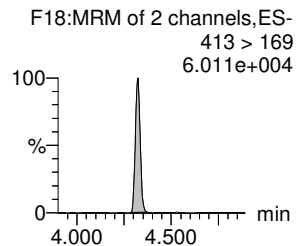
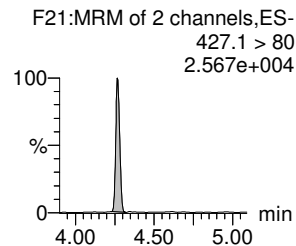
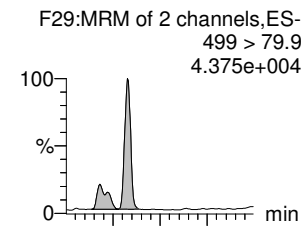
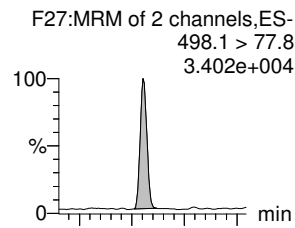
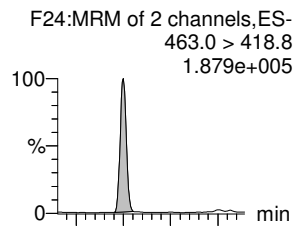
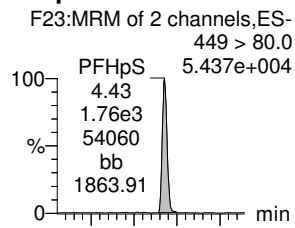
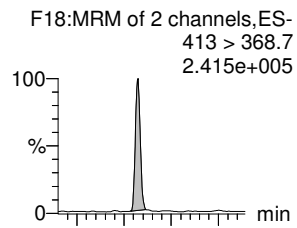
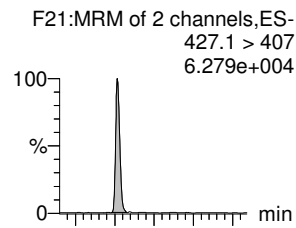
**L-PFOA**

**PFHpS**

**PFNA**

**PFOSA**

**L-PFOS**



**13C2-6:2 FTS**

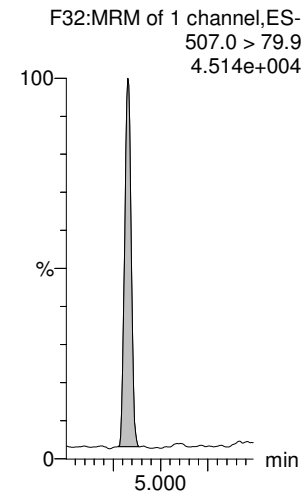
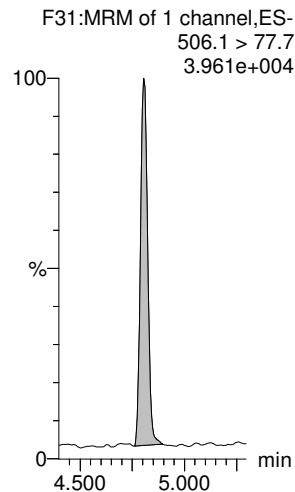
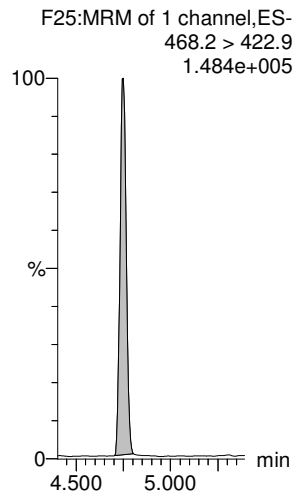
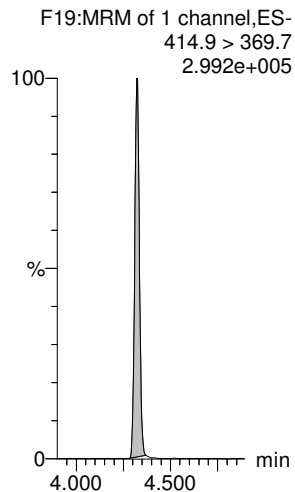
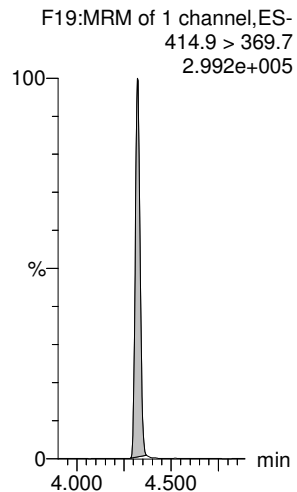
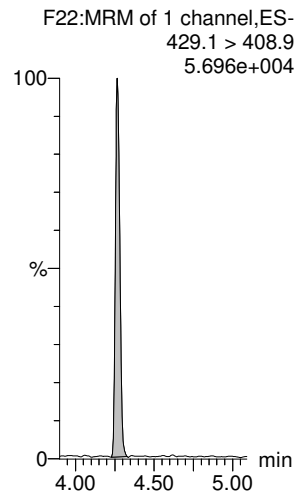
**13C2-PFOA**

**13C2-PFOA**

**13C5-PFNA**

**13C8-PFOSA**

**13C8-PFOS**





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**PFDA**

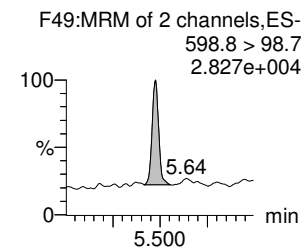
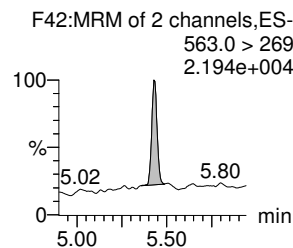
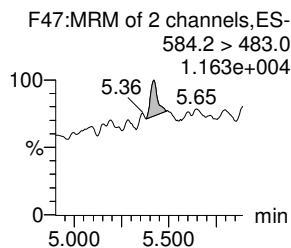
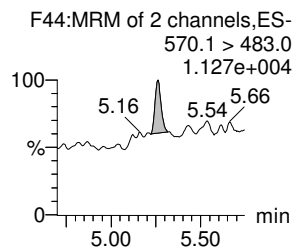
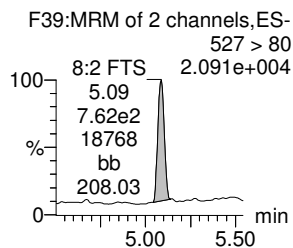
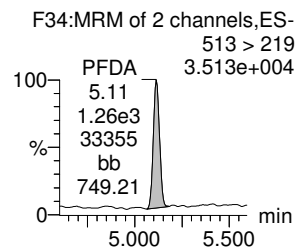
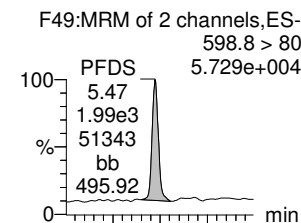
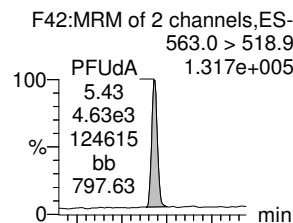
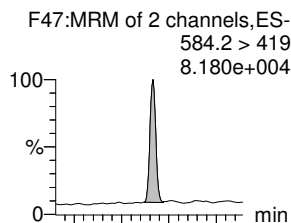
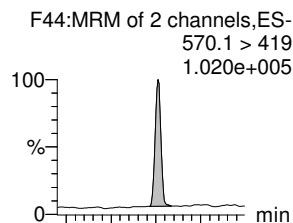
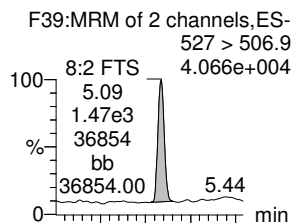
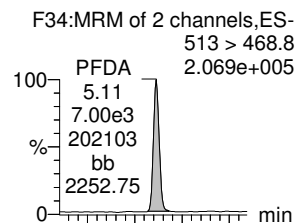
**8:2 FTS**

**N-MeFOSAA**

**N-EtFOSAA**

**PFUdA**

**PFDS**



**13C2-PFDA**

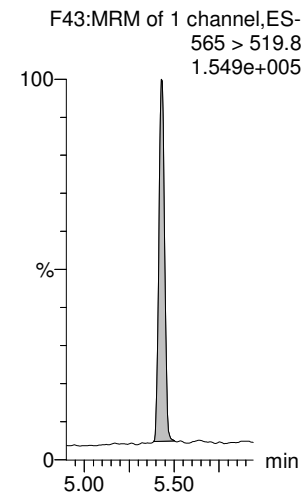
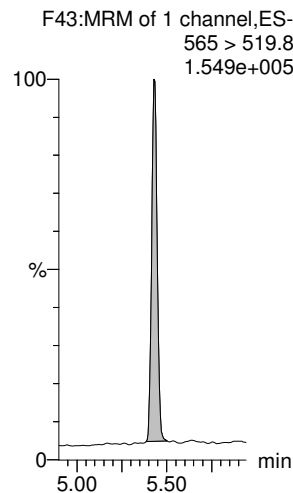
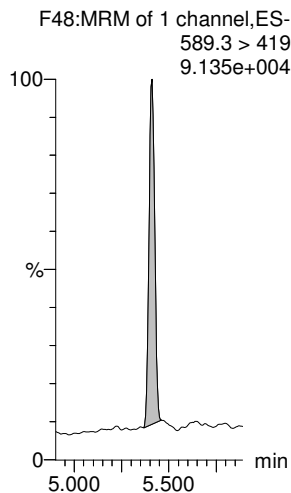
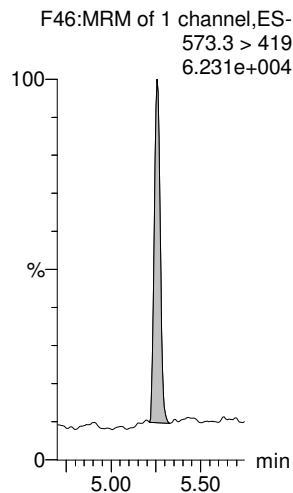
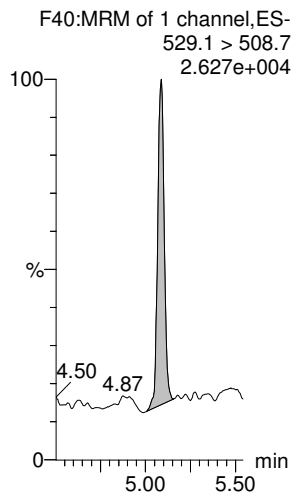
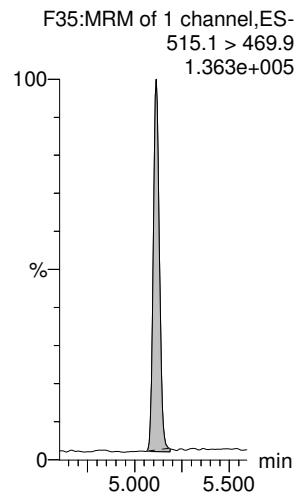
**13C2-8:2 FTS**

**d3-N-MeFOSAA**

**d5-N-EtFOSAA**

**13C2-PFUdA**

**13C2-PFUdA**



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**PFDoA**

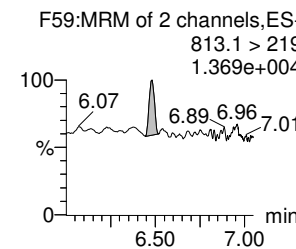
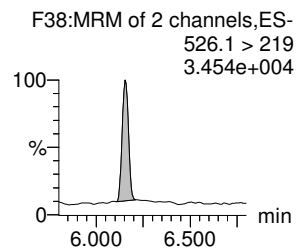
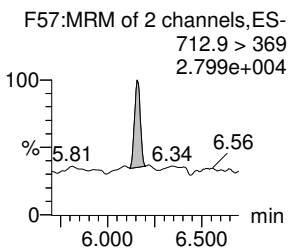
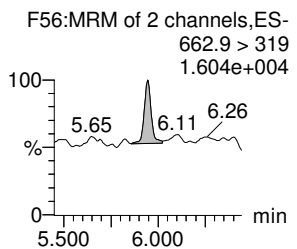
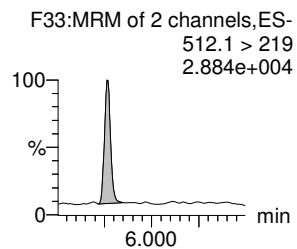
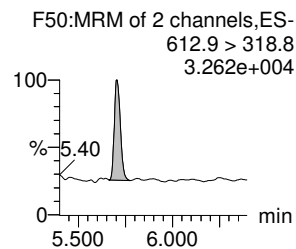
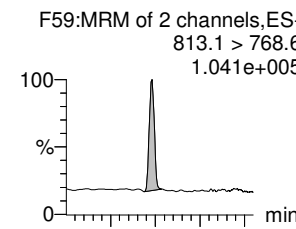
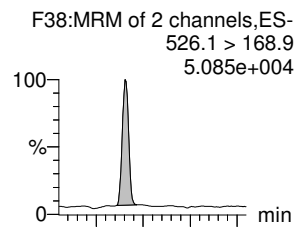
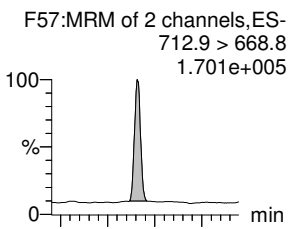
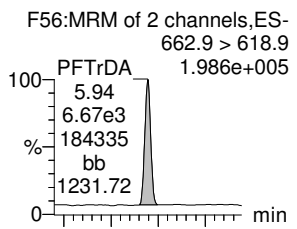
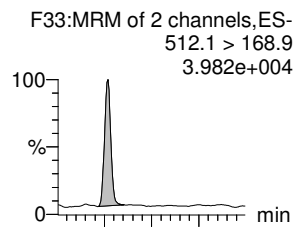
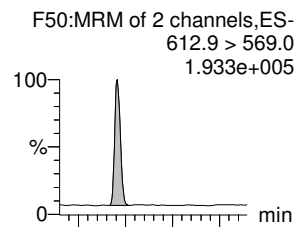
**N-MeFOSA**

**PFTrDA**

**PFTeDA**

**N-EtFOSA**

**PFHxDA**



**13C2-PFDoA**

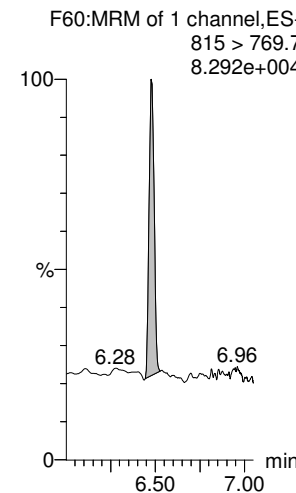
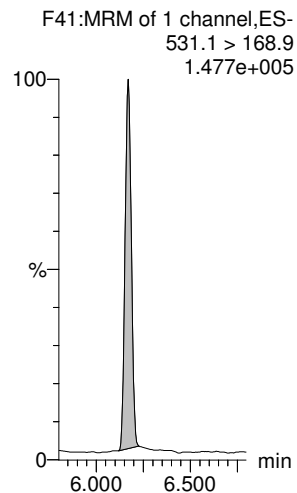
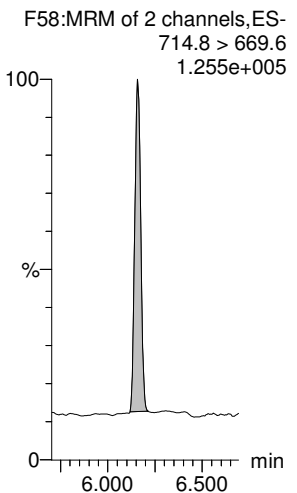
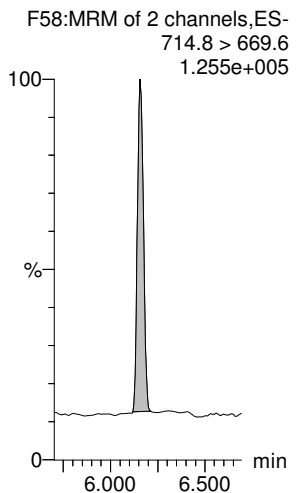
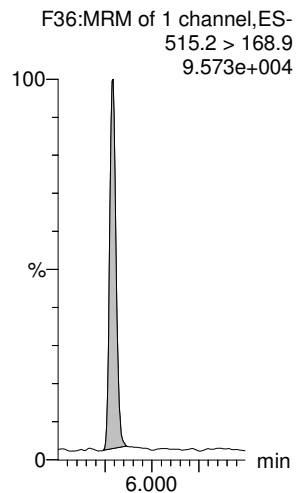
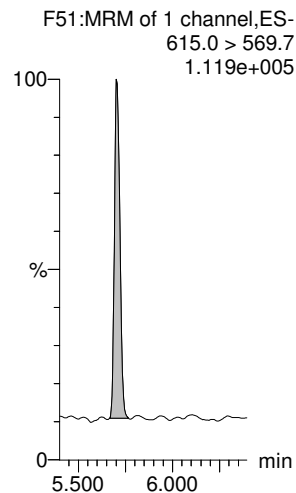
**d3-N-MeFOSA**

**13C2-PFTeDA**

**13C2-PFTeDA**

**d5-N-ETFOSA**

**13C2-PFHxDA**

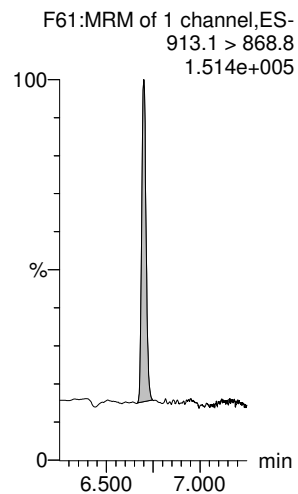


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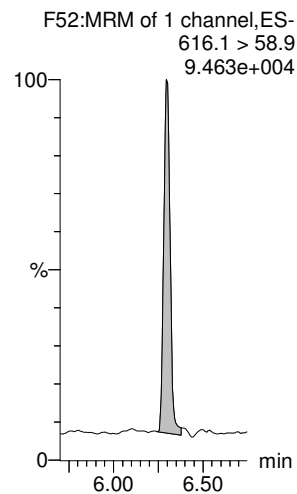
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Name: 171224M1\_15, Date: 24-Dec-2017, Time: 15:02:08, ID: B7L0037-BS1 OPR 0.25, Description: OPR

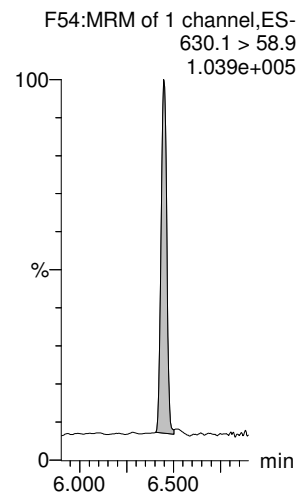
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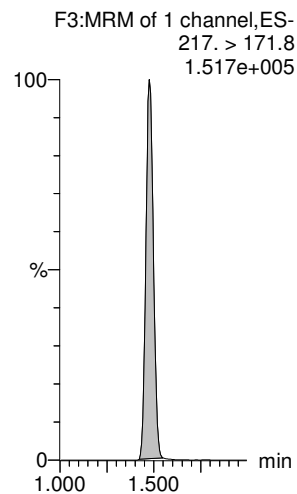
**N-MeFOSE**



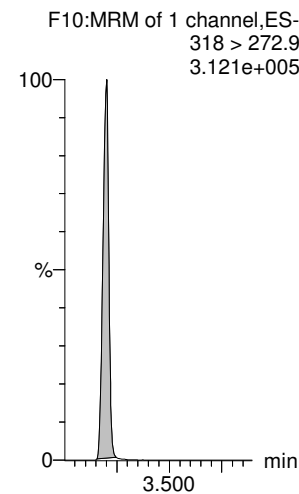
**N-EtFOSE**



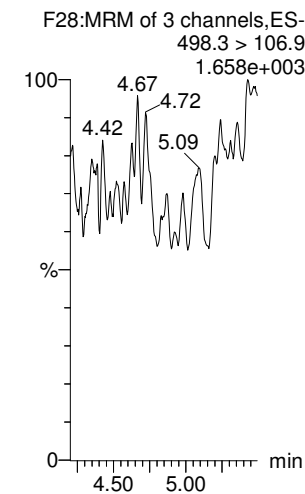
**13C4-PFBA**



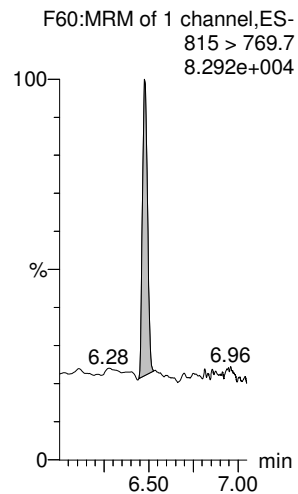
**13C5-PFHxA**



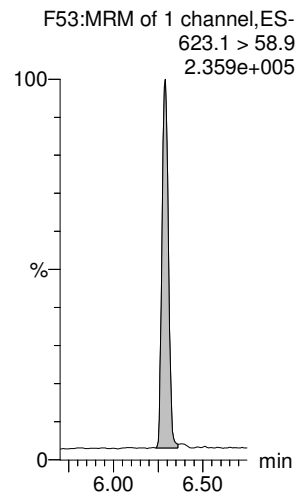
**TCDA**



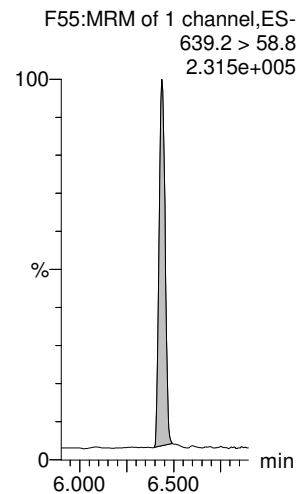
**13C2-PFHxDA**



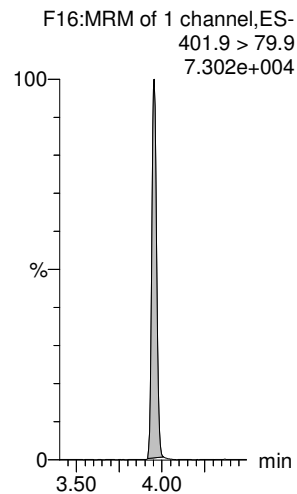
**d7-N-MeFOSE**



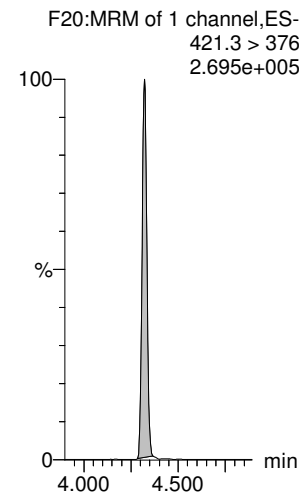
**d9-N-EtFOSE**



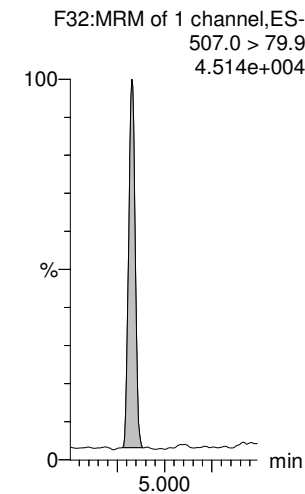
**13C3-PFHxS**



**13C8-PFOA**



**13C8-PFOS**



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**13C9-PFNA**

**13C4-PFOS**

**13C6-PFDA**

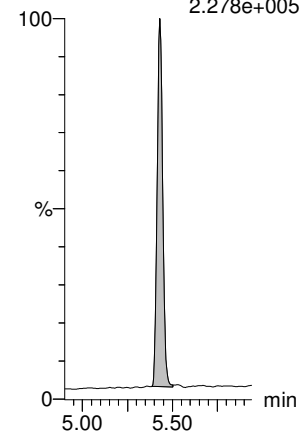
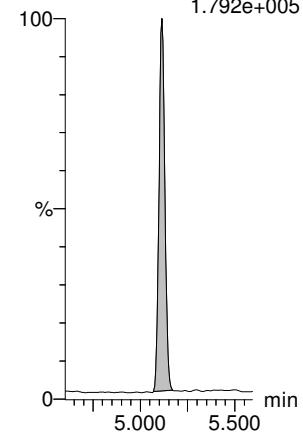
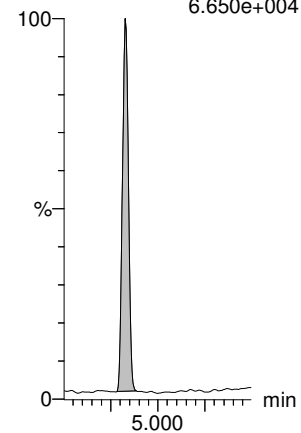
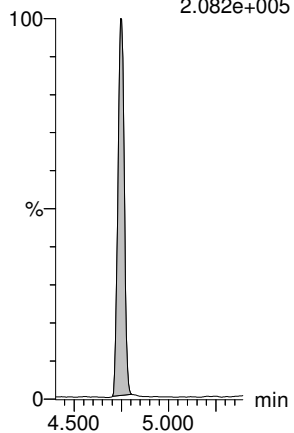
**13C7-PFUdA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.082e+005

F30:MRM of 1 channel,ES-  
503 > 79.9  
6.650e+004

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
1.792e+005

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.278e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_16.qld

Last Altered: Tuesday, December 26, 2017 16:04:24 Pacific Standard Time

Printed: Tuesday, December 26, 2017 16:04:34 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 14:44:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	5.81e3	5.96e3	0.2500		1.47	1.48	12.2	40.218	100.5
2	2 PFPeA	263.1 > 218.9	6.86e3	7.59e3	0.2500		2.44	2.44	11.3	41.978	104.9
3	3 PFBS	299.0 > 79.7	1.87e3	1.03e3	0.2500		2.70	2.71	22.7	42.859	107.1
4	4 PFHxA	313.2 > 268.9	9.15e3	2.99e3	0.2500		3.20	3.20	15.3	41.906	104.8
5	5 PFHpA	363.0 > 318.9	6.92e3	5.01e3	0.2500		3.80	3.81	17.3	44.913	112.3
6	6 L-PFHxS	398.9 > 79.6	1.60e3	8.79e2	0.2500		3.95	3.95	22.7	40.317	100.8
7	8 6:2 FTS	427.1 > 407	1.82e3	7.29e3	0.2500		4.26	4.26	3.13	56.949	142.4
8	9 L-PFOA	413 > 368.7	6.11e3	7.29e3	0.2500		4.32	4.32	10.5	37.169	92.9
9	11 PFHpS	449 > 80.0	1.67e3	7.29e3	0.2500		4.43	4.42	2.86	45.615	114.0
10	12 PFNA	463.0 > 418.8	8.19e3	7.43e3	0.2500		4.75	4.75	13.8	37.501	93.8
11	13 PFOSA	498.1 > 77.8	1.43e3	1.46e3	0.2500		4.81	4.80	12.2	51.817	129.5
12	14 L-PFOS	499 > 79.9	1.92e3	2.38e3	0.2500		4.83	4.83	10.1	36.033	90.1
13	16 PFDA	513 > 468.8	6.51e3	5.90e3	0.2500		5.11	5.11	13.8	40.647	101.6
14	17 8:2 FTS	527 > 506.9	1.90e3	5.90e3	0.2500		5.09	5.09	4.04	63.182	158.0
15	18 N-MeFOSAA	570.1 > 419	3.24e3	2.12e3	0.2500		5.26	5.26	19.1	38.229	95.6
16	19 N-EtFOSAA	584.2 > 419	2.20e3	2.23e3	0.2500		5.42	5.41	12.3	38.071	95.2
17	20 PFUDa	563.0 > 518.9	5.92e3	6.30e3	0.2500		5.43	5.42	11.7	44.369	110.9
18	21 PFDS	598.8 > 80	1.82e3	6.30e3	0.2500		5.50	5.47	3.61	45.645	114.1
19	22 PFDoA	612.9 > 569.0	6.60e3	3.56e3	0.2500		5.70	5.70	23.2	44.137	110.3
20	23 N-MeFOSA	512.1 > 168.9	1.03e3	2.79e3	0.2500		5.77	5.76	55.2	212.757	106.4
21	24 PFTDA	662.9 > 618.9	7.20e3	4.47e3	0.2500		5.95	5.94	20.1	32.766	81.9
22	25 PFTeDA	712.9 > 668.8	6.08e3	4.47e3	0.2500		6.16	6.16	17.0	36.606	91.5
23	26 N-EtFOSA	526.1 > 168.9	1.41e3	4.42e3	0.2500		6.15	6.15	47.7	197.709	98.9
24	27 PFHxDA	813.1 > 768.6	2.69e3	2.22e3	0.2500		6.48	6.48	6.05	39.639	99.1
25	29 N-MeFOSE	616.1 > 58.9	3.46e3	9.48e3	0.2500		6.30	6.30	54.7	205.603	102.8
26	30 N-EtFOSE	630.1 > 58.9	3.46e3	8.32e3	0.2500		6.42	6.45	62.4	224.203	112.1
27	31 13C3-PFBA	216.1 > 171.8	5.96e3	7.07e3	0.2500	0.895	1.47	1.47	10.5	47.150	94.3
28	32 13C3-PFPeA	266. > 221.8	7.59e3	9.62e3	0.2500	0.867	2.44	2.44	9.87	45.500	91.0
29	33 13C3-PFBS	302. > 98.8	1.03e3	9.62e3	0.2500	0.109	2.70	2.71	1.34	49.473	98.9
30	34 13C2-PFHxA	315 > 269.8	2.99e3	9.62e3	0.2500	0.777	3.20	3.20	3.88	19.980	99.9
31	35 13C4-PFHpA	367.2 > 321.8	5.01e3	9.62e3	0.2500	0.600	3.80	3.81	6.52	43.458	86.9
32	36 18O2-PFHxS	403.0 > 102.6	8.79e2	2.08e3	0.2500	0.444	3.95	3.95	5.29	47.654	95.3

ANP 12/26/2017

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_16.qld

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Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	37 13C2-6:2 FTS	429.1 > 408.9	1.87e3	7.30e3	0.2500	0.385	4.26	4.26	3.20	33.241	66.5
34	38 13C2-PFOA	414.9 > 369.7	7.29e3	7.30e3	0.2500	1.237	4.32	4.32	12.5	40.389	80.8
35	39 13C5-PFNA	468.2 > 422.9	7.43e3	7.81e3	0.2500	0.911	4.75	4.75	11.9	52.221	104.4
36	40 13C8-PFOA	506.1 > 77.7	1.46e3	7.02e3	0.2500	0.400	4.81	4.81	2.60	26.022	52.0
37	41 13C8-PFOS	507.0 > 79.9	2.38e3	2.09e3	0.2500	1.009	4.83	4.82	14.2	56.400	112.8
38	42 13C2-PFDA	515.1 > 469.9	5.90e3	6.05e3	0.2500	1.195	5.11	5.11	12.2	40.782	81.6
39	43 13C2-8:2 FTS	529.1 > 508.7	1.01e3	9.62e3	0.2500	0.168	5.09	5.09	1.31	31.128	62.3
40	44 d3-N-MeFOSAA	573.3 > 419	2.12e3	7.02e3	0.2500	0.418	5.26	5.26	3.78	36.136	72.3
41	45 d5-N-EtFOSAA	589.3 > 419	2.23e3	7.02e3	0.2500	0.445	5.42	5.41	3.97	35.742	71.5
42	46 13C2-PFUdA	565 > 519.8	6.30e3	7.02e3	0.2500	1.212	5.43	5.43	11.2	36.990	74.0
43	47 13C2-PFDoA	615.0 > 569.7	3.56e3	7.02e3	0.2500	0.685	5.70	5.70	6.34	37.012	74.0
44	48 d3-N-MeFOSA	515.2 > 168.9	2.79e3	7.02e3	0.2500	0.155	5.80	5.79	4.96	127.825	21.3
45	49 13C2-PFTeDA	714.8 > 669.6	4.47e3	7.02e3	0.2500	0.597	6.16	6.16	7.96	53.351	106.7
46	50 d5-N-ETFOSA	531.1 > 168.9	4.42e3	7.02e3	0.2500	0.227	6.16	6.17	7.87	138.522	23.1
47	51 13C2-PFHxDA	815 > 769.7	2.22e3	7.02e3	0.2500	0.902	6.48	6.48	3.96	17.550	87.8
48	52 d7-N-MeFOSE	623.1 > 58.9	9.48e3	7.02e3	0.2500	0.214	6.30	6.29	16.9	315.006	52.5
49	53 d9-N-EtFOSE	639.2 > 58.8	8.32e3	7.02e3	0.2500	0.219	6.42	6.44	14.8	270.894	45.1
50	54 13C4-PFBA	217. > 171.8	7.07e3	7.07e3	0.2500	1.000	1.47	1.48	12.5	50.000	100.0
51	55 13C5-PFHxA	318 > 272.9	9.62e3	9.62e3	0.2500	1.000	3.20	3.20	12.5	50.000	100.0
52	56 13C3-PFHxS	401.9 > 79.9	2.08e3	2.08e3	0.2500	1.000	3.95	3.95	12.5	50.000	100.0
53	57 13C8-PFOA	421.3 > 376	7.30e3	7.30e3	0.2500	1.000	4.32	4.32	12.5	50.000	100.0
54	58 13C9-PFNA	472.2 > 426.9	7.81e3	7.81e3	0.2500	1.000	4.75	4.75	12.5	50.000	100.0
55	59 13C4-PFOS	503 > 79.9	2.09e3	2.09e3	0.2500	1.000	4.83	4.83	12.5	50.000	100.0
56	60 13C6-PFDA	519.1 > 473.7	6.05e3	6.05e3	0.2500	1.000	5.11	5.11	12.5	50.000	100.0
57	61 13C7-PFUdA	570.1 > 524.8	7.02e3	7.02e3	0.2500	1.000	5.43	5.42	12.5	50.000	100.0
58	62 Total PFHxS	398.9 > 79.6	1.60e3	8.79e2	0.2500		4.00		22.7	40.317	
59	63 Total PFOA	413 > 368.7	6.11e3	7.29e3	0.2500		4.30		10.5	37.169	
60	64 Total PFOS	499 > 79.9	1.92e3	2.38e3	0.2500		4.80		10.1	36.033	
61	65 Total N-MeFOSAA	570.1 > 419	3.24e3	2.12e3	0.2500		5.20		19.1	38.229	
62	66 Total N-EtFOSAA	584.2 > 419	2.29e3	2.23e3	0.2500		5.40		12.8	39.945	

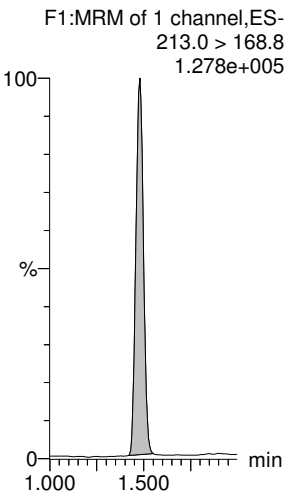
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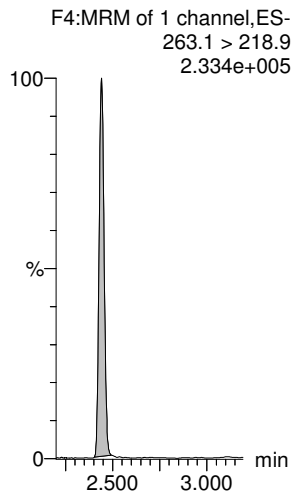
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Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD

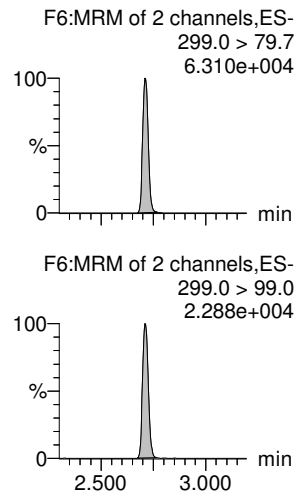
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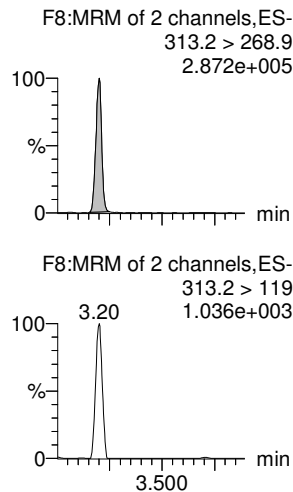
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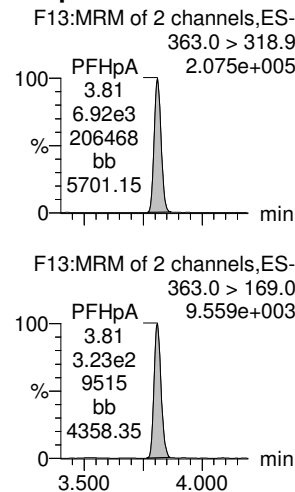
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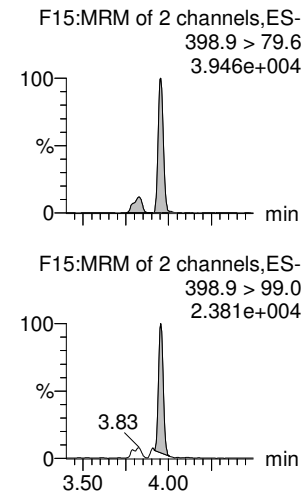
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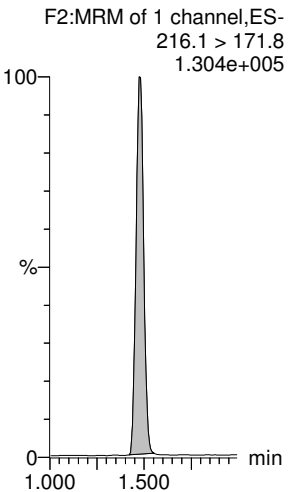
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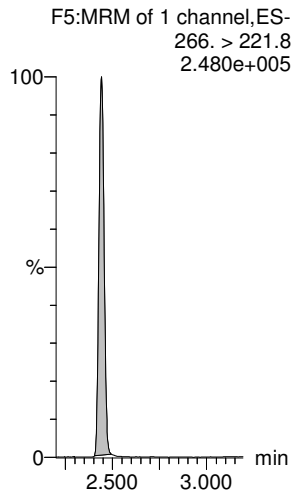
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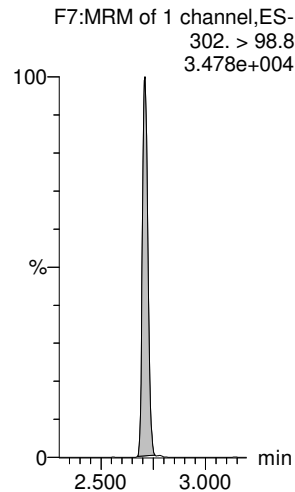
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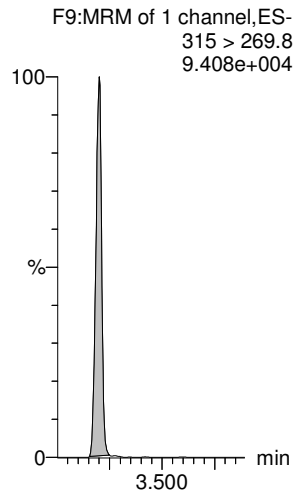
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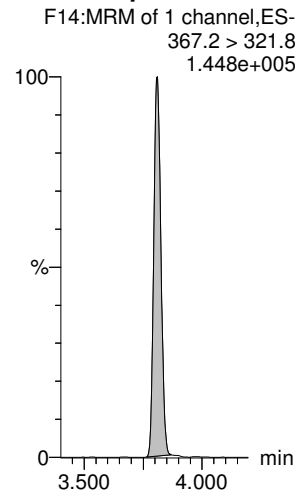
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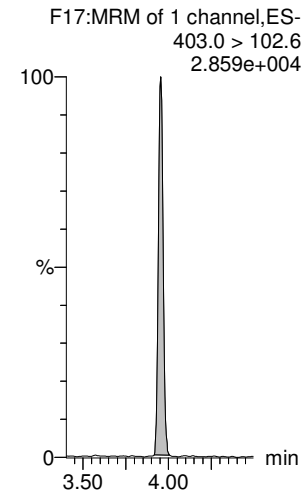
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_16.qld

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Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD

**6:2 FTS**

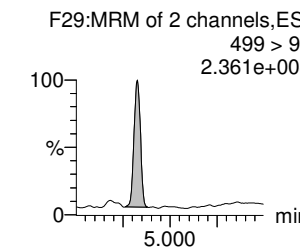
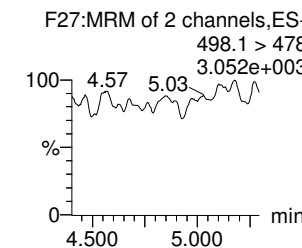
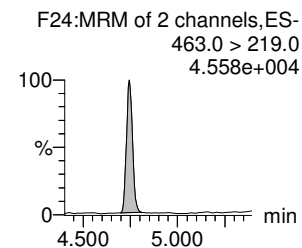
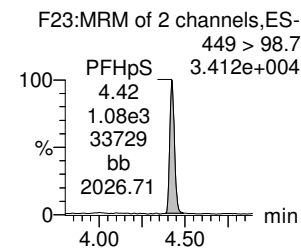
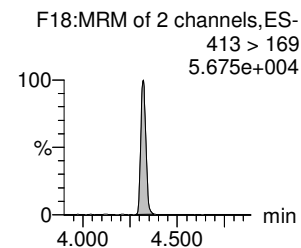
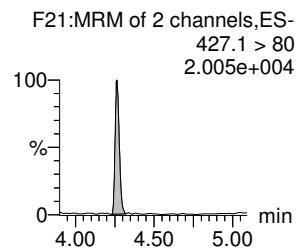
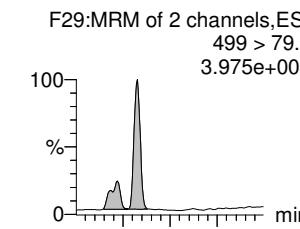
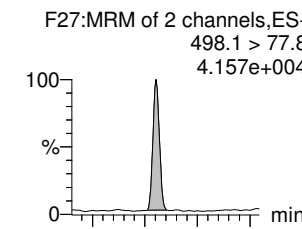
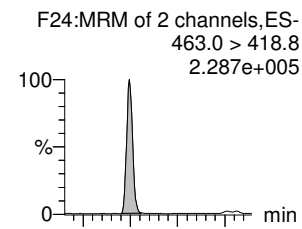
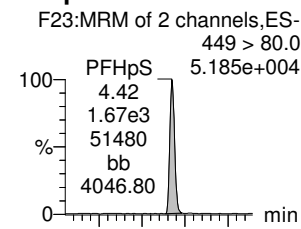
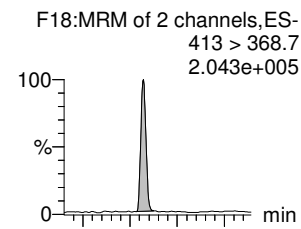
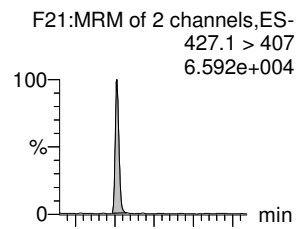
**L-PFOA**

**PFHpS**

**PFNA**

**PFOSA**

**L-PFOS**



**13C2-6:2 FTS**

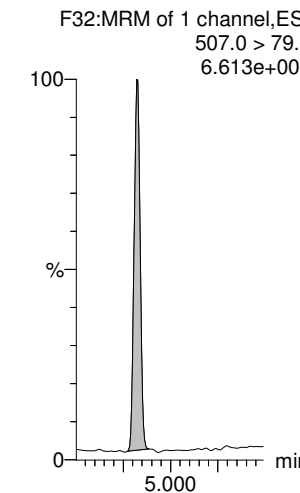
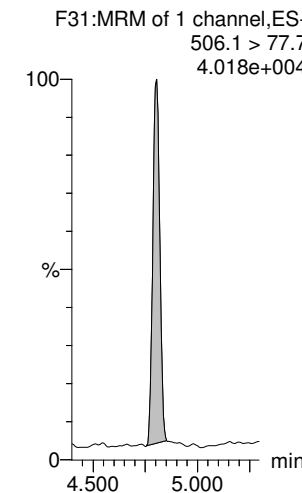
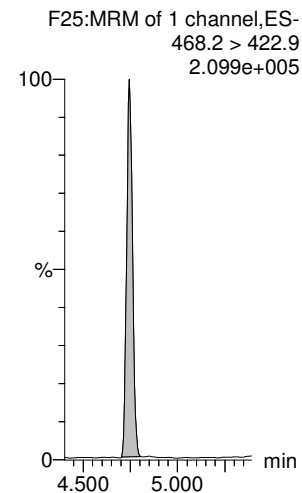
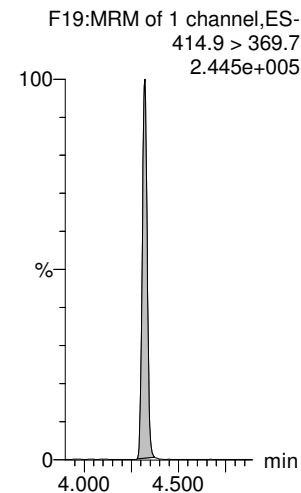
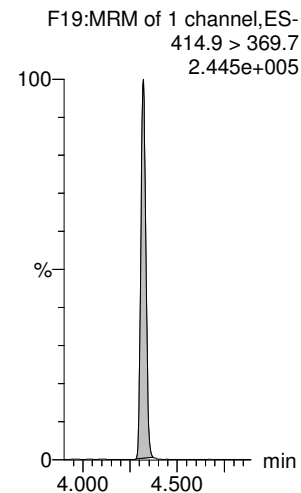
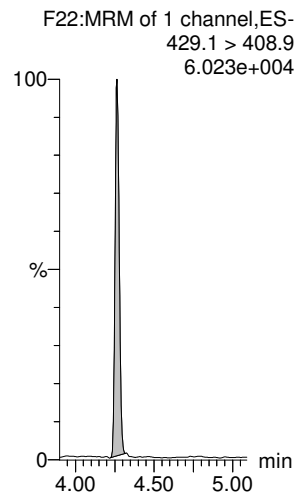
**13C2-PFOA**

**13C2-PFOA**

**13C5-PFNA**

**13C8-PFOSA**

**13C8-PFOS**





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Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD

**PFDA**

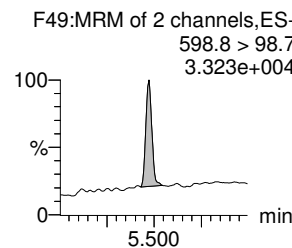
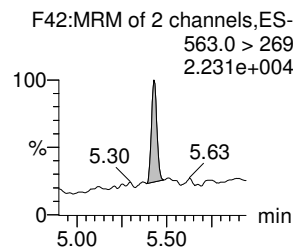
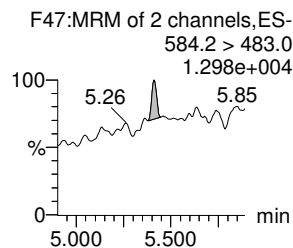
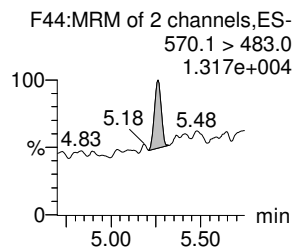
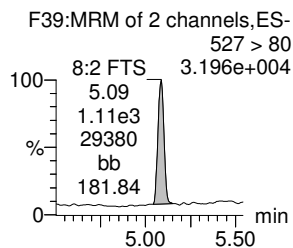
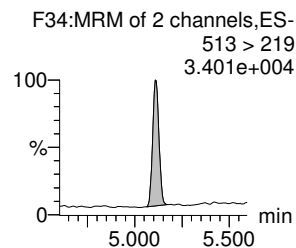
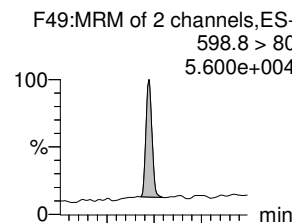
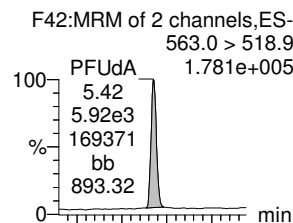
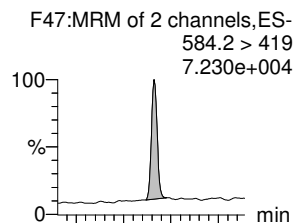
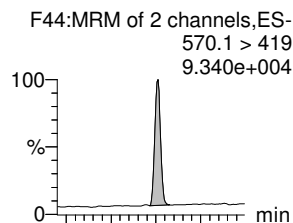
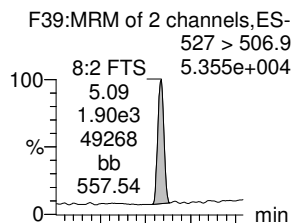
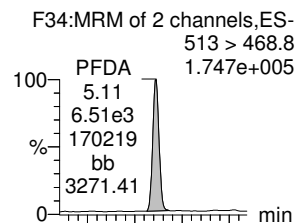
**8:2 FTS**

**N-MeFOSAA**

**N-EtFOSAA**

**PFUdA**

**PFDS**



**13C2-PFDA**

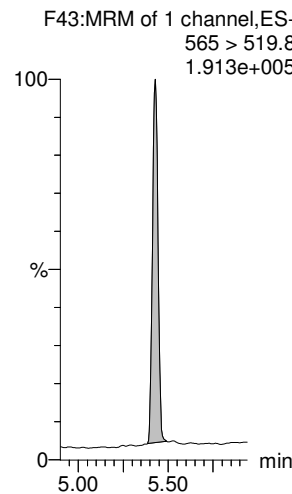
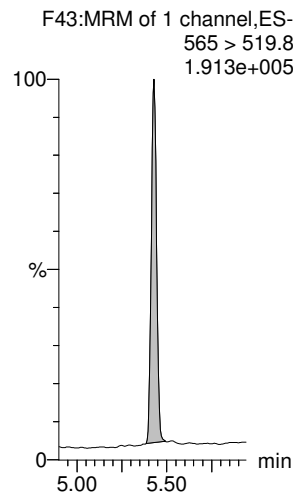
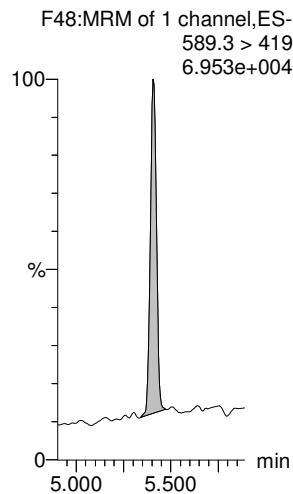
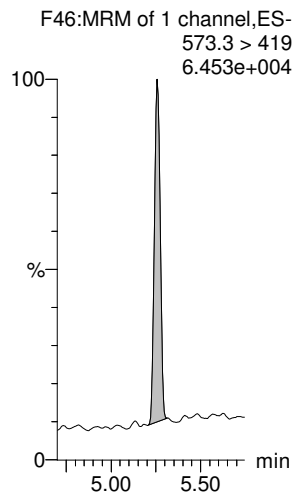
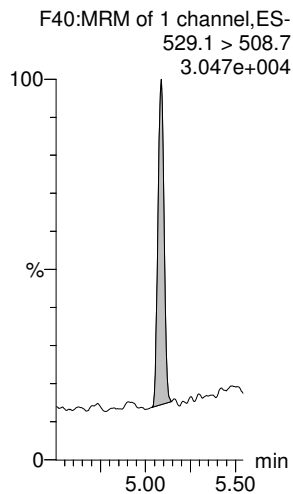
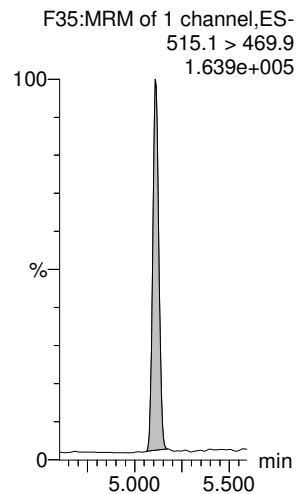
**13C2-8:2 FTS**

**d3-N-MeFOSAA**

**d5-N-EtFOSAA**

**13C2-PFUdA**

**13C2-PFUdA**



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_16.qld

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Printed: Tuesday, December 26, 2017 16:04:34 Pacific Standard Time

Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD

**PFDoA**

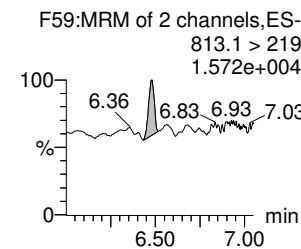
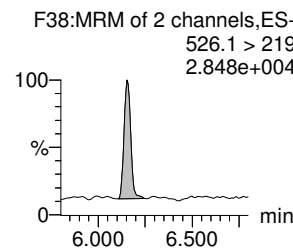
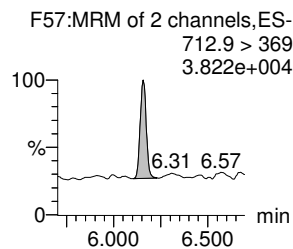
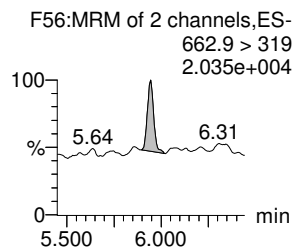
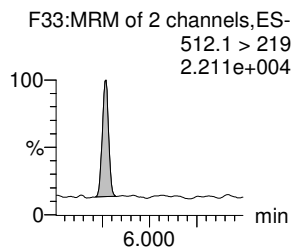
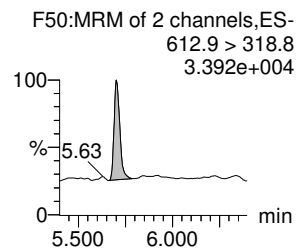
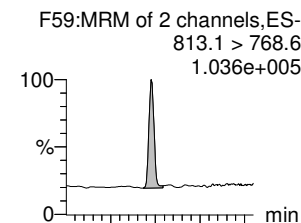
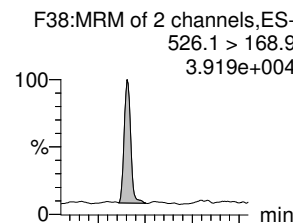
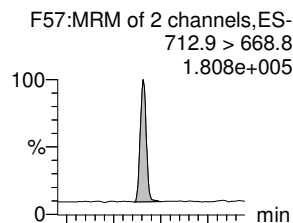
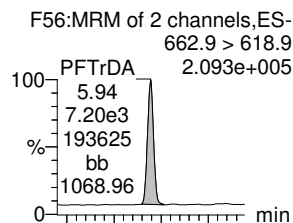
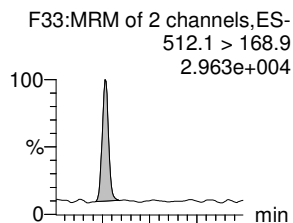
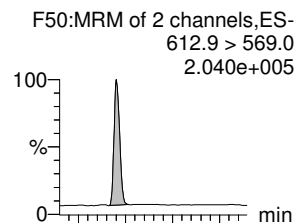
**N-MeFOSA**

**PFTrDA**

**PFTeDA**

**N-EtFOSA**

**PFHxDA**



**13C2-PFDoA**

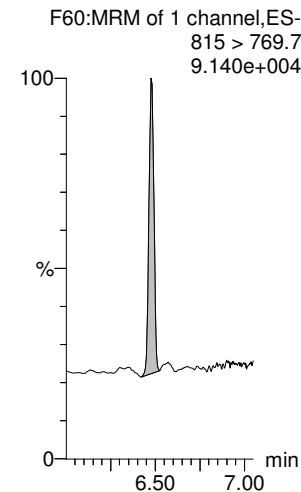
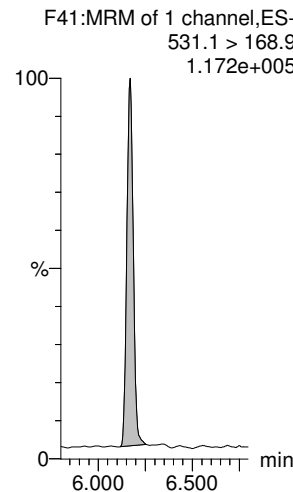
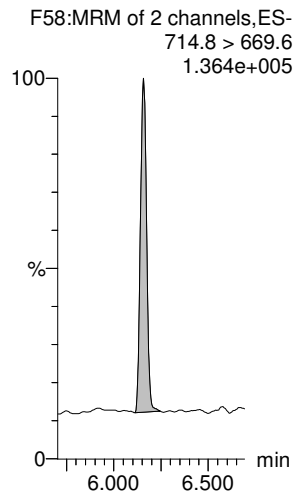
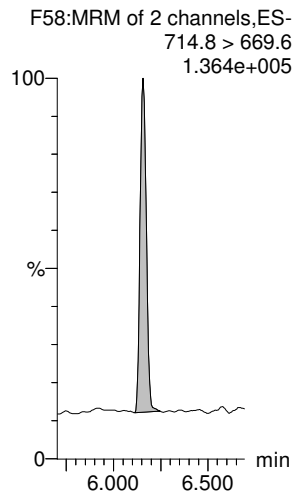
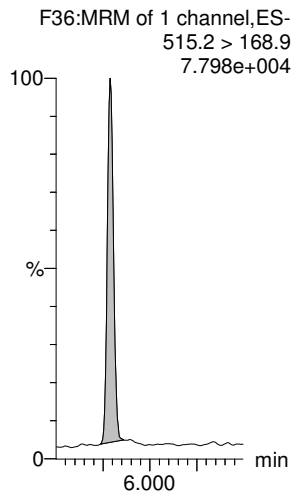
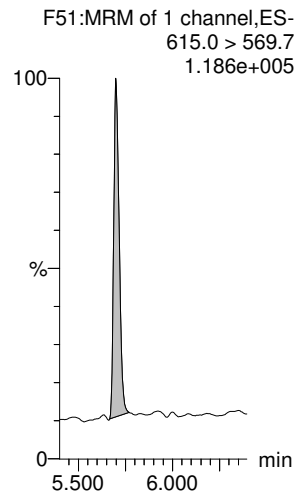
**d3-N-MeFOSA**

**13C2-PFTeDA**

**13C2-PFTeDA**

**d5-N-ETFOSA**

**13C2-PFHxDA**

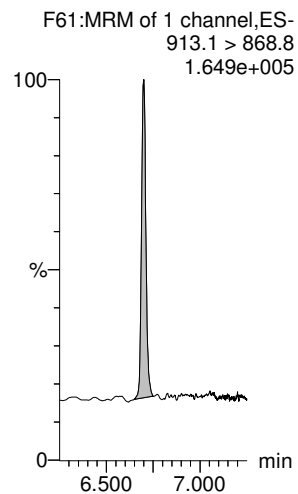


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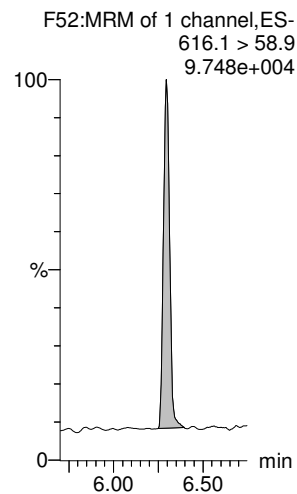
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Printed: Tuesday, December 26, 2017 16:04:34 Pacific Standard Time

Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD

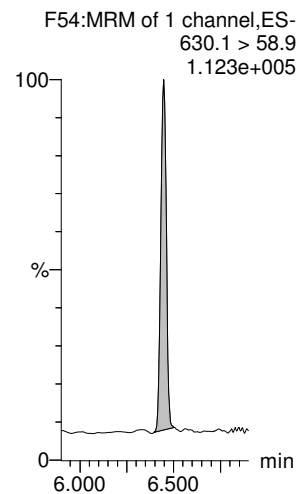
**PFODA**



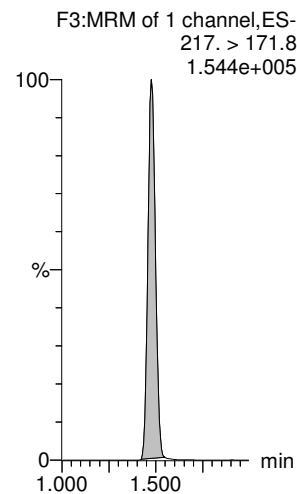
**N-MeFOSE**



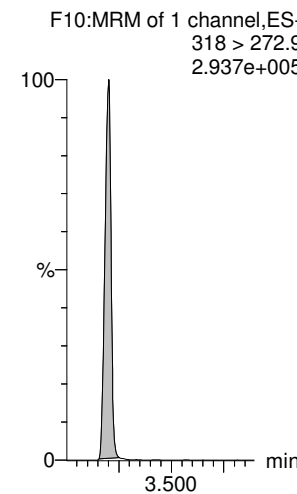
**N-EtFOSE**



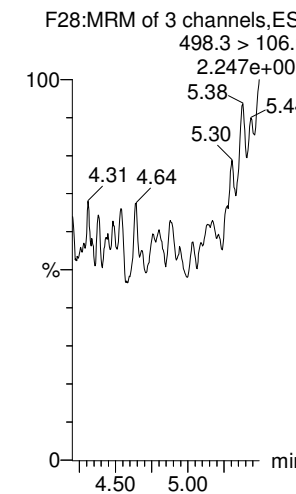
**13C4-PFBA**



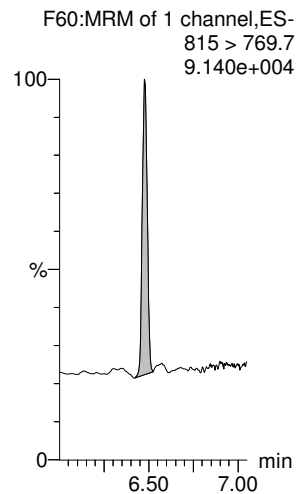
**13C5-PFHxA**



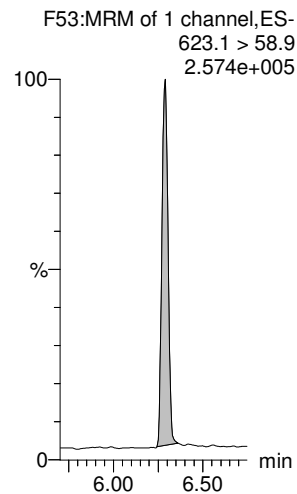
**TCDA**



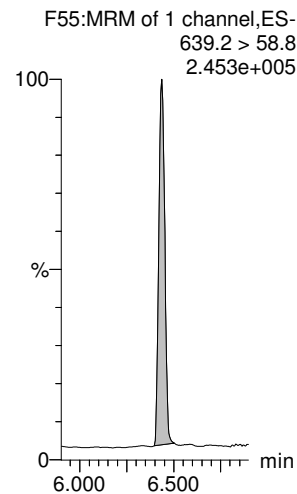
**13C2-PFHxDA**



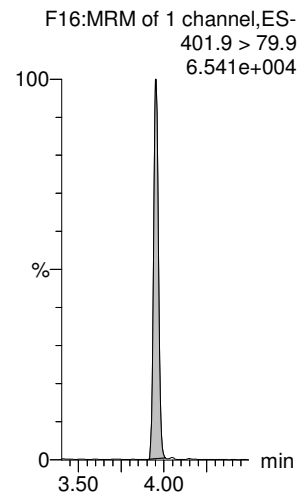
**d7-N-MeFOSE**



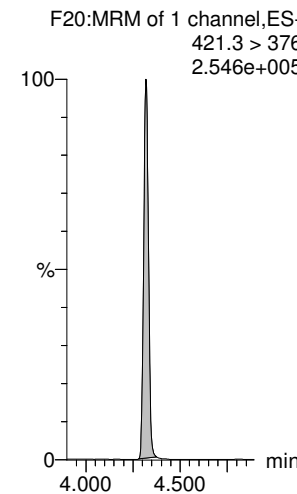
**d9-N-EtFOSE**



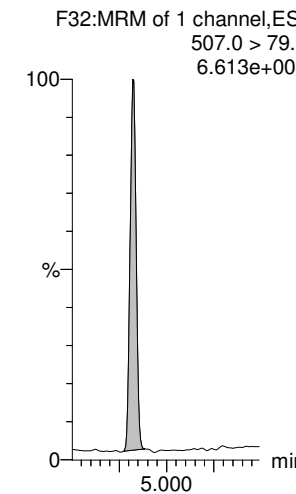
**13C3-PFHxS**



**13C8-PFOA**



**13C8-PFOS**



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_16.qld

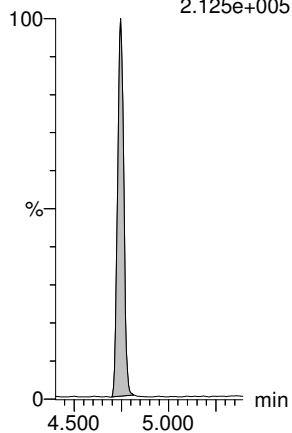
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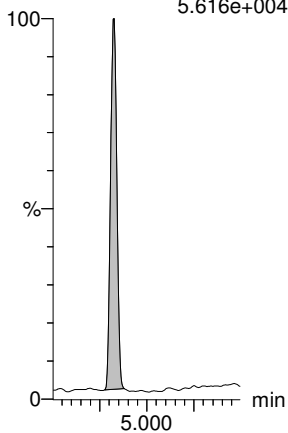
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.125e+005



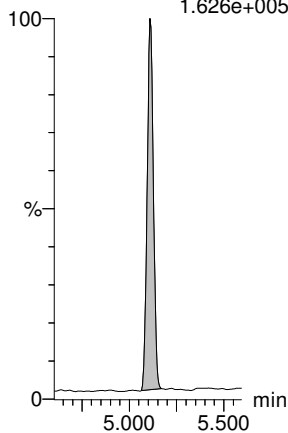
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
5.616e+004



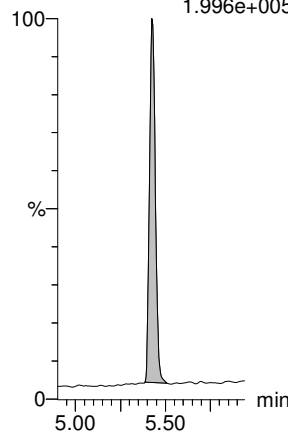
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
1.626e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
1.996e+005



Dataset: U:\Q4.PRO\results\180103M3\180103M3-40.qld

Last Altered: Thursday, January 04, 2018 15:23:37 Pacific Standard Time

Printed: Thursday, January 04, 2018 15:24:40 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Name: 180103M3\_40, Date: 04-Jan-2018, Time: 13:41:38, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		5.99e2	0.249		2.70				
2	4	PFHxA	313.2 > 268.9		1.21e3	0.249		3.12				
3	5	PFHpA	363.0 > 318.9		3.10e3	0.249		3.75				
4	6	L-PFHxS	398.9 > 79.6		4.59e2	0.249		3.92				
5	9	L-PFOA	413 > 368.7		4.15e3	0.249		4.25				
6	12	PFNA	463.0 > 418.8		3.90e3	0.249		4.70				
7	14	L-PFOS	499 > 79.9		1.14e3	0.249		4.83				
8	16	PFDA	513 > 468.8		2.74e3	0.249		5.05				
9	18	N-MeFOSAA	570.1 > 419		1.82e3	0.249		5.20				
10	19	N-EtFOSAA	584.2 > 419		2.05e3	0.249		5.42				
11	20	PFUdA	563.0 > 518.9		3.36e3	0.249		5.35				
12	22	PFDoA	612.9 > 569.0		1.92e3	0.249		5.70				

Dataset: U:\Q4.PRO\results\180103M3\180103M3-40.qld

Last Altered: Thursday, January 04, 2018 15:23:37 Pacific Standard Time

Printed: Thursday, January 04, 2018 15:24:57 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Name: 180103M3\_40, Date: 04-Jan-2018, Time: 13:41:38, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	9.52e2	0.249		5.95				
2	25	PFTeDA	712.9 > 668.8	9.52e2	0.249		6.16				
3	33	13C3-PFBS	302. > 98.8	5.99e2	0.249	0.106	2.70	2.63	1.73	65.4233	130.1
4	34	13C2-PFHxA	315 > 269.8	1.21e3	0.249	0.633	3.20	3.11	3.47	22.0639	109.7
5	35	13C4-PFHpA	367.2 > 321.8	3.10e3	0.249	0.641	3.80	3.73	8.92	56.0414	111.4
6	36	18O2-PFHxS	403.0 > 102.6	4.59e2	0.249	0.334	3.95	3.87	4.81	57.9455	115.2
7	37	13C2-6:2 FTS	429.1 > 408.9	1.14e3	0.249	0.228	4.26	4.19	3.10	54.6556	108.7
8	38	13C2-PFOA	414.9 > 369.7	4.15e3	0.249	0.959	4.32	4.24	11.3	47.3537	94.1
9	39	13C5-PFNA	468.2 > 422.9	3.90e3	0.249	0.830	4.75	4.67	11.4	55.2421	109.8
10	40	13C8-PFOSA	506.1 > 77.7	5.83e2	0.249	0.262	4.81	4.74	2.07	31.8012	63.2
11	41	13C8-PFOS	507.0 > 79.9	1.14e3	0.249	0.880	4.83	4.75	10.8	49.2993	98.0
12	42	13C2-PFDA	515.1 > 469.9	2.74e3	0.249	0.995	5.11	5.05	13.6	54.8791	109.1
13	43	13C2-8:2 FTS	529.1 > 508.7	6.01e2	0.249	0.142	5.09	5.02	1.73	48.9456	97.3
14	44	d3-N-MeFOSAA	573.3 > 419	1.82e3	0.249	0.376	5.26	5.19	6.46	69.1768	137.5
15	45	d5-N-EtFOSAA	589.3 > 419	2.05e3	0.249	0.444	5.42	5.35	7.29	66.1163	131.4
16	46	13C2-PFUdA	565 > 519.8	3.36e3	0.249	0.889	5.43	5.37	11.9	54.0714	107.5
17	47	13C2-PFDoA	615.0 > 569.7	1.92e3	0.249	0.542	5.70	5.65	6.83	50.6699	100.7
18	49	13C2-PFTeDA	714.8 > 669.6	9.52e2	0.249	0.230	6.16	6.11	3.38	59.1185	117.5
19	55	13C5-PFHxA	318 > 272.9	4.34e3	0.249	1.000	3.20	3.11	12.5	50.2978	100.0
20	56	13C3-PFHxS	401.9 > 79.9	1.19e3	0.249	1.000	3.95	3.87	12.5	50.2978	100.0
21	57	13C8-PFOA	421.3 > 376	4.60e3	0.249	1.000	4.32	4.24	12.5	50.2978	100.0
22	58	13C9-PFNA	472.2 > 426.9	4.28e3	0.249	1.000	4.75	4.67	12.5	50.2978	100.0
23	59	13C4-PFOS	503 > 79.9	1.32e3	0.249	1.000	4.83	4.76	12.5	50.2978	100.0
24	60	13C6-PFDA	519.1 > 473.7	2.52e3	0.249	1.000	5.11	5.05	12.5	50.2978	100.0
25	61	13C7-PFUdA	570.1 > 524.8	3.52e3	0.249	1.000	5.43	5.37	12.5	50.2978	100.0
26	62	Total PFHxS	398.9 > 79.6	0.00e0	0.249		4.00		0.000		
27	63	Total PFOA	413 > 368.7	0.00e0	0.249		4.30		0.000		
28	64	Total PFOS	499 > 79.9	0.00e0	0.249		4.80		0.000		
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	0.249		5.20		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	0.249		5.40		0.000		

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Last Altered: Thursday, January 04, 2018 15:23:37 Pacific Standard Time

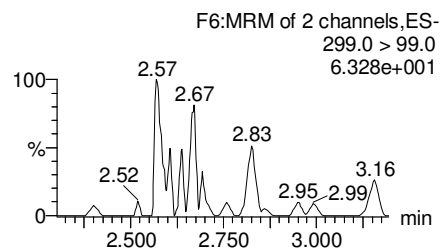
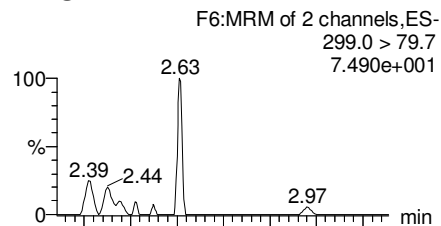
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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

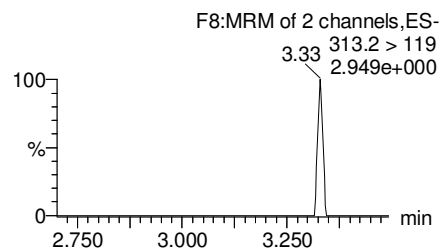
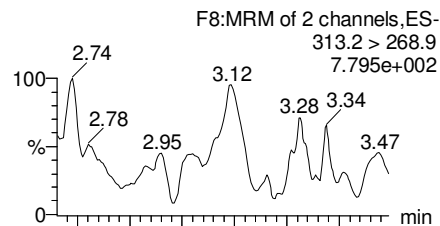
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Name: 180103M3\_40, Date: 04-Jan-2018, Time: 13:41:38, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017

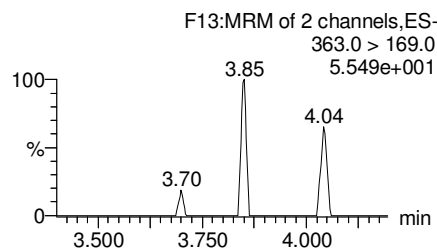
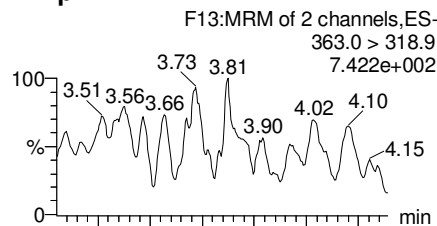
**PFBS**



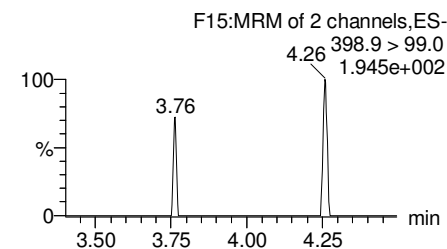
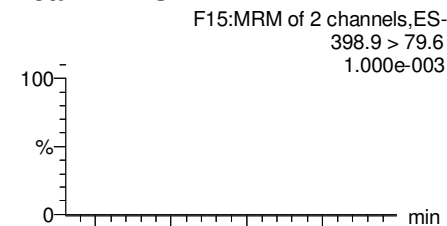
**PFHxA**



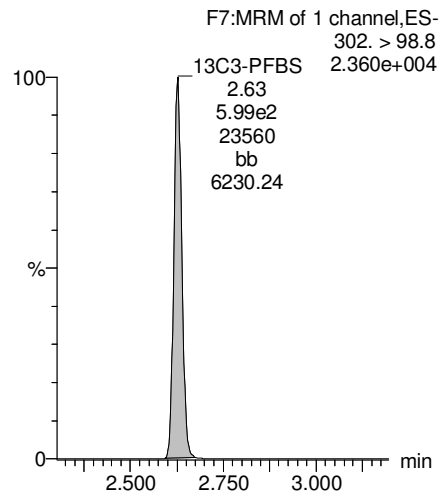
**PFHpA**



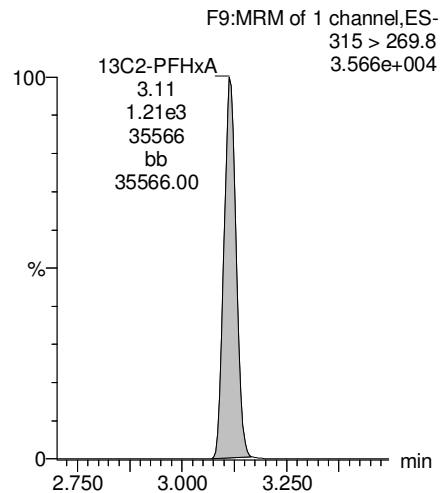
**Total PFHxS**



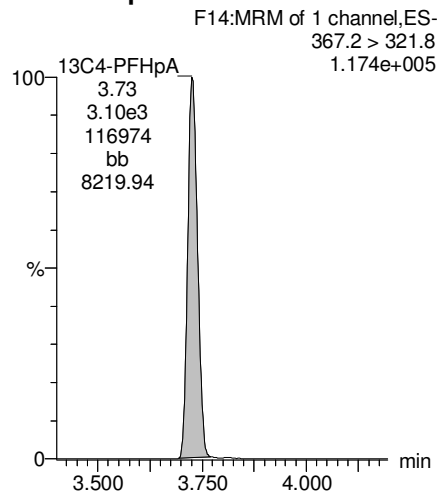
**13C3-PFBS**



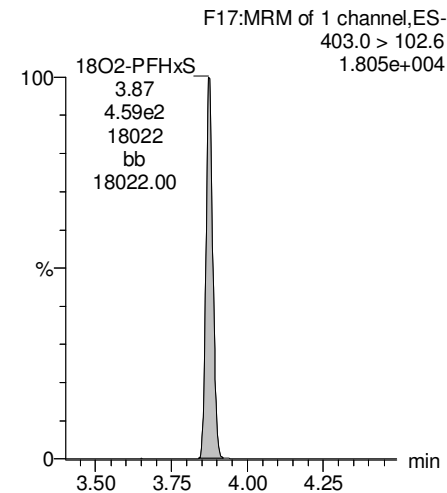
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



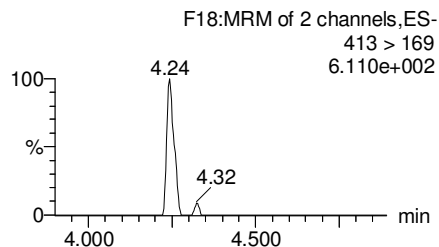
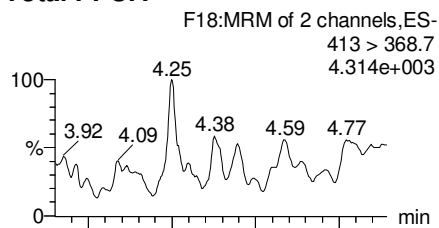
Dataset: U:\Q4.PRO\results\180103M3\180103M3-40.qld

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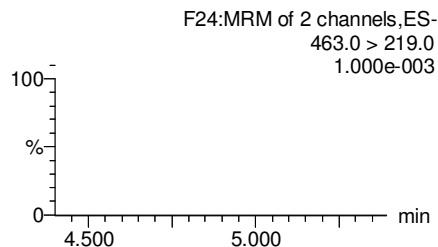
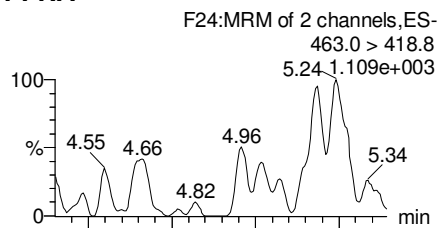
Printed: Thursday, January 04, 2018 15:24:57 Pacific Standard Time

Name: 180103M3\_40, Date: 04-Jan-2018, Time: 13:41:38, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017

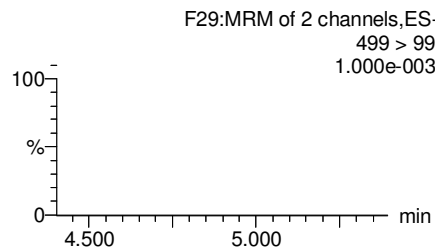
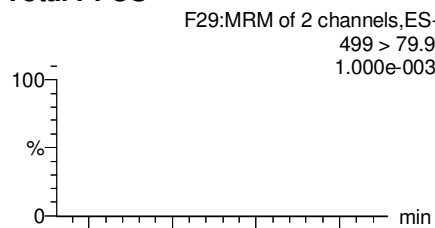
**Total PFOA**



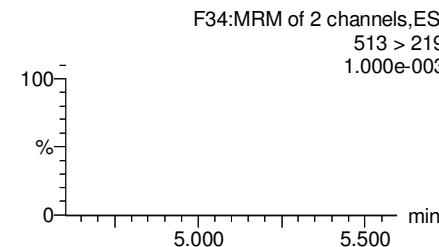
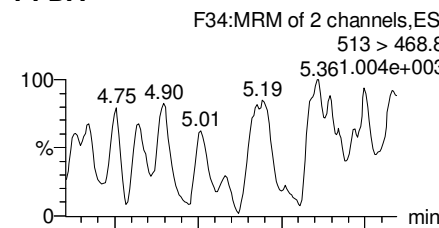
**PFNA**



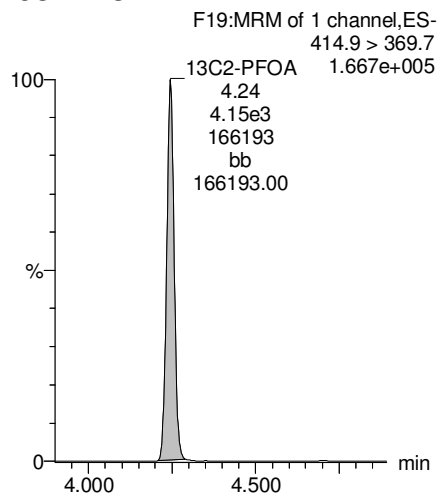
**Total PFOS**



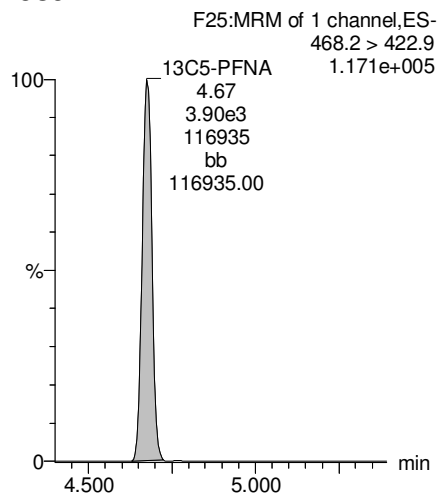
**PFDA**



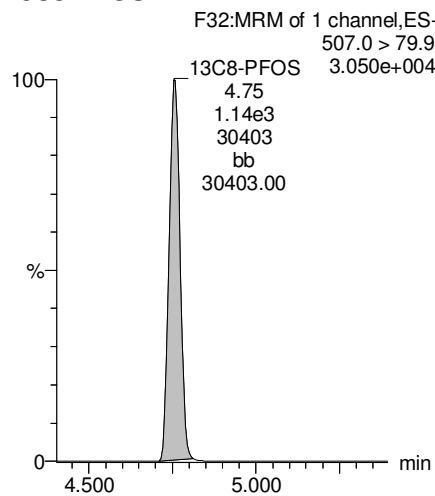
**13C2-PFOA**



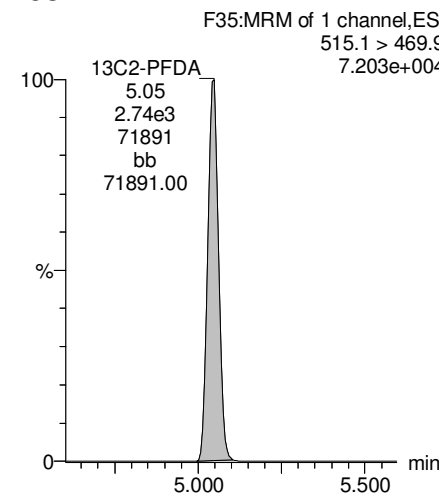
**13C5-PFNA**



**13C8-PFOS**



**13C2-PFDA**





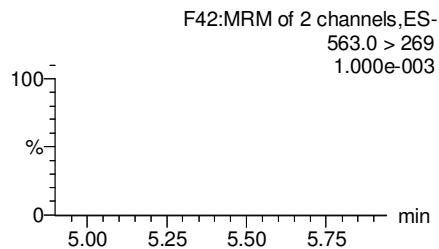
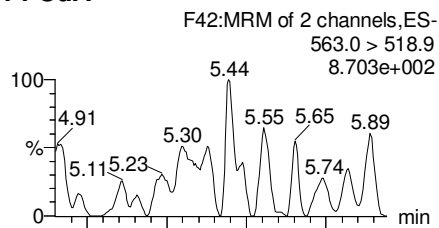
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Last Altered: Thursday, January 04, 2018 15:23:37 Pacific Standard Time

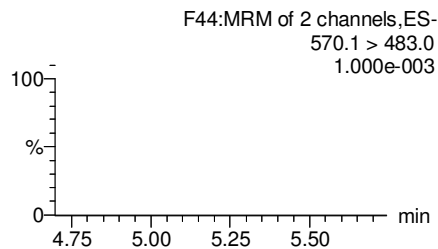
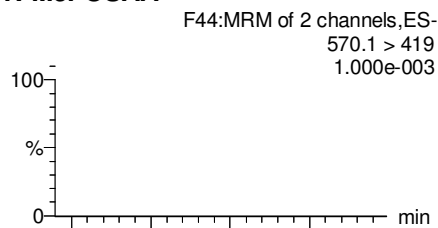
Printed: Thursday, January 04, 2018 15:24:57 Pacific Standard Time

Name: 180103M3\_40, Date: 04-Jan-2018, Time: 13:41:38, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017

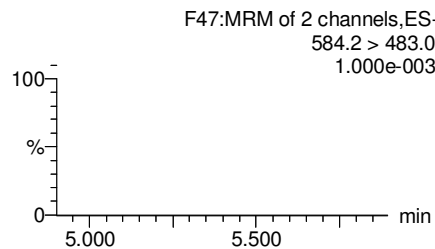
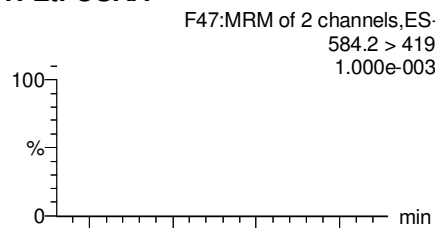
**PFUdA**



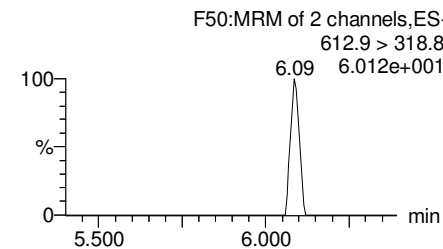
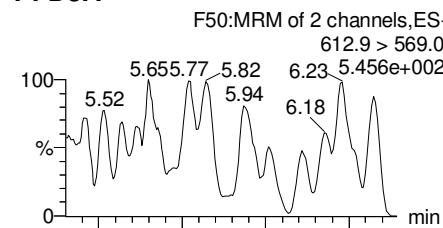
**N-MeFOSAA**



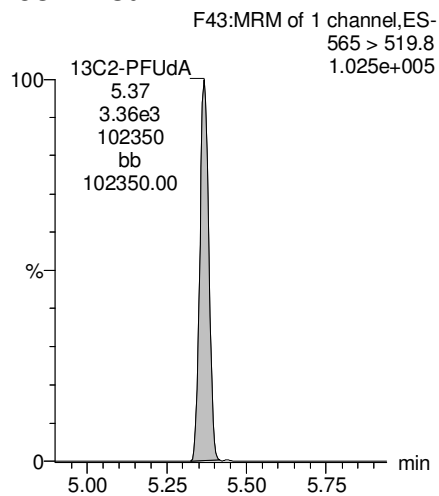
**N-EtFOSAA**



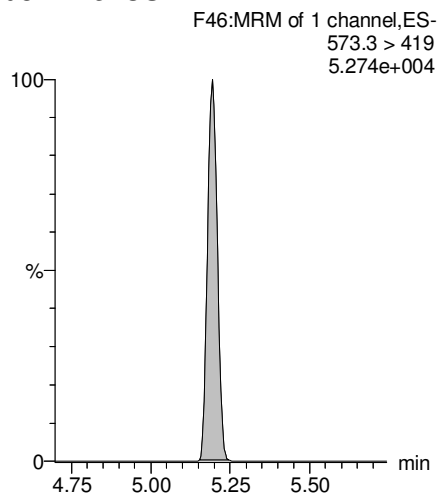
**PFDaA**



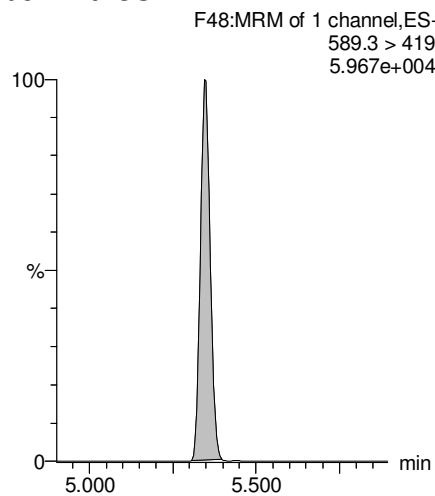
**13C2-PFUdA**



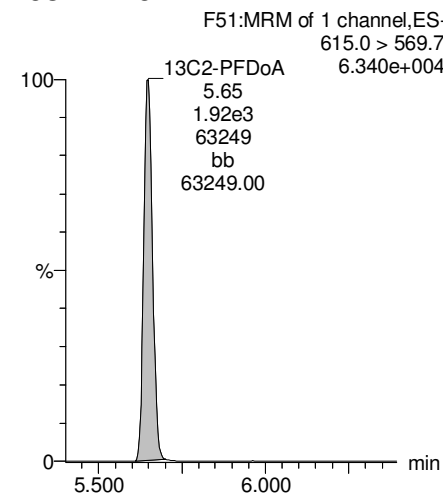
**d3-N-MeFOSAA**



**d5-N-EtFOSAA**



**13C2-PFDaA**



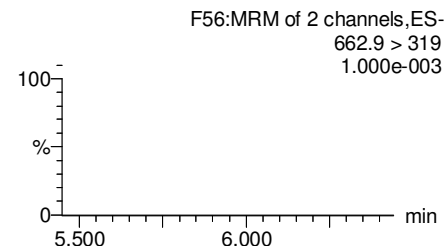
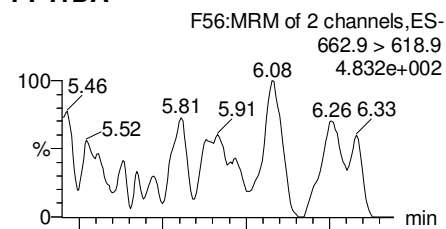
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Last Altered: Thursday, January 04, 2018 15:23:37 Pacific Standard Time

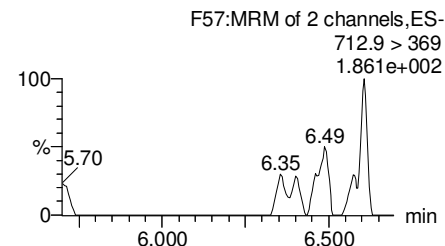
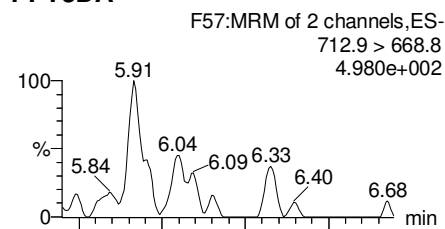
Printed: Thursday, January 04, 2018 15:24:57 Pacific Standard Time

Name: 180103M3\_40, Date: 04-Jan-2018, Time: 13:41:38, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017

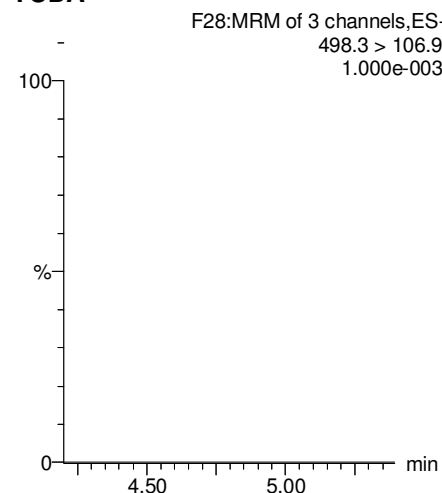
**PFTrDA**



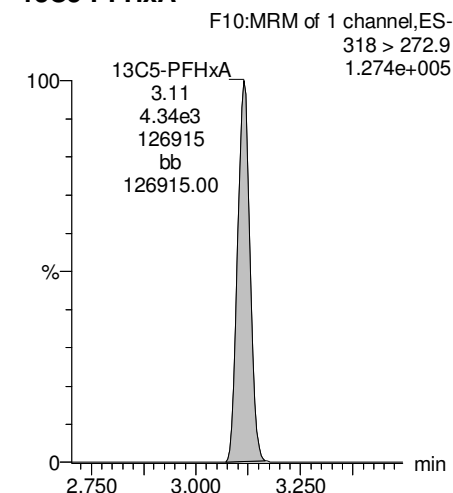
**PFTeDA**



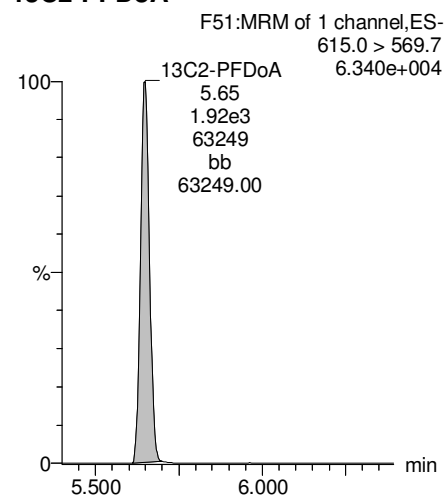
**TCDA**



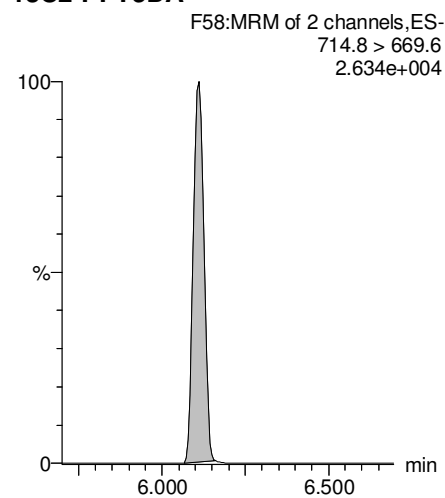
**13C5-PFHxA**



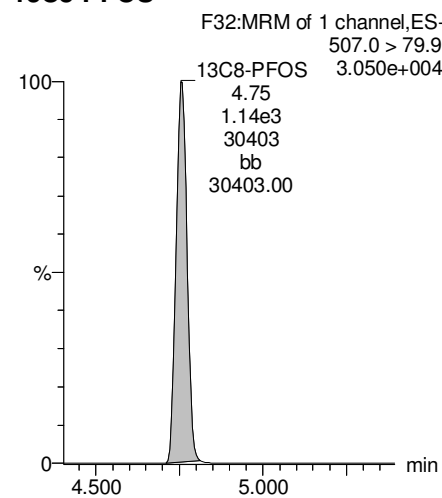
**13C2-PFDoA**



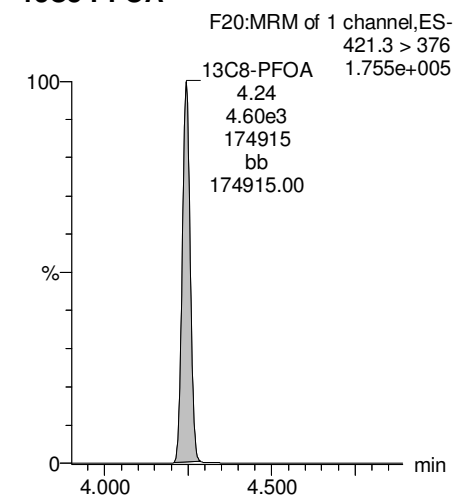
**13C2-PFTeDA**



**13C8-PFOS**



**13C8-PFOA**



Dataset: U:\Q4.PRO\results\180103M3\180103M3-40.qld

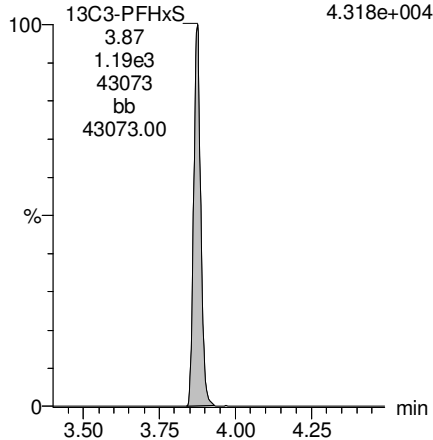
Last Altered: Thursday, January 04, 2018 15:23:37 Pacific Standard Time

Printed: Thursday, January 04, 2018 15:24:57 Pacific Standard Time

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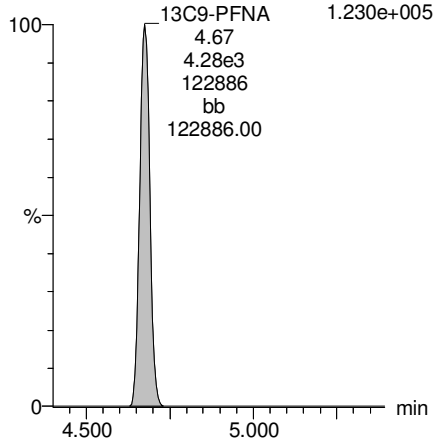
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
4.318e+004



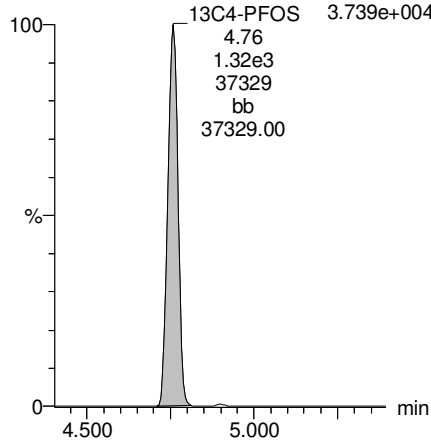
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
1.230e+005



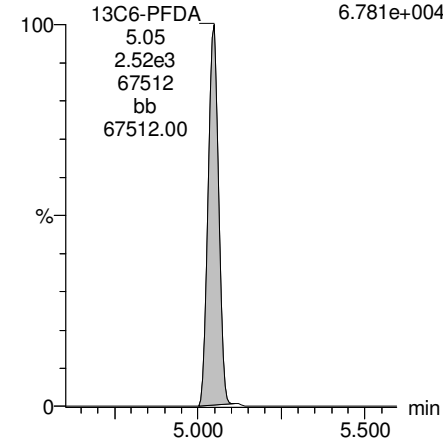
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
3.739e+004



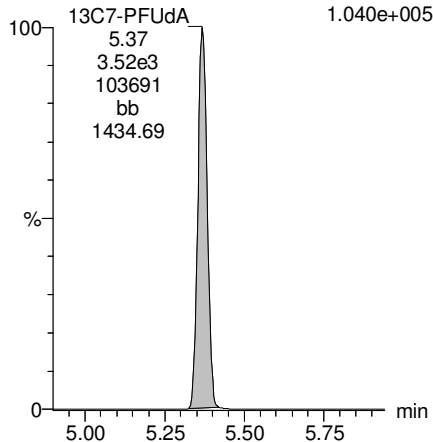
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
6.781e+004



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
1.040e+005



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

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_IIS AREAS.qld

Last Altered: Wednesday, January 03, 2018 13:50:53 Pacific Standard Time

Printed: Wednesday, January 03, 2018 13:52:06 Pacific Standard Time

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

Calibration: 03 Jan 2018 13:50:53

Name: 171224M1\_7, Date: 24-Dec-2017, Time: 13:32:42, ID: ST171224M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171224M1-6 PFC CS3 17L1207	1.15e4	100.0	NO
2	2 13C5-PFHxA	ST171224M1-6 PFC CS3 17L1207	1.51e4	100.0	NO
3	3 13C3-PFHxS	ST171224M1-6 PFC CS3 17L1207	3.30e3	100.0	NO
4	4 13C8-PFOA	ST171224M1-6 PFC CS3 17L1207	1.08e4	100.0	NO
5	5 13C9-PFNA	ST171224M1-6 PFC CS3 17L1207	1.26e4	100.0	NO
6	6 13C4-PFOS	ST171224M1-6 PFC CS3 17L1207	3.45e3	100.0	NO
7	7 13C6-PFDA	ST171224M1-6 PFC CS3 17L1207	9.45e3	100.0	NO
8	8 13C7-PFUDa	ST171224M1-6 PFC CS3 17L1207	1.02e4	100.0	NO

Name: 171224M1\_8, Date: 24-Dec-2017, Time: 13:43:53, ID: ST171224M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171224M1-7 PFC CS4 17L1208	1.12e4	97.6	NO
2	2 13C5-PFHxA	ST171224M1-7 PFC CS4 17L1208	1.49e4	98.5	NO
3	3 13C3-PFHxS	ST171224M1-7 PFC CS4 17L1208	2.97e3	89.9	NO
4	4 13C8-PFOA	ST171224M1-7 PFC CS4 17L1208	1.08e4	100.6	NO
5	5 13C9-PFNA	ST171224M1-7 PFC CS4 17L1208	1.22e4	96.9	NO
6	6 13C4-PFOS	ST171224M1-7 PFC CS4 17L1208	2.89e3	83.7	NO
7	7 13C6-PFDA	ST171224M1-7 PFC CS4 17L1208	1.04e4	110.1	NO
8	8 13C7-PFUDa	ST171224M1-7 PFC CS4 17L1208	1.20e4	117.3	NO

Name: 171224M1\_9, Date: 24-Dec-2017, Time: 13:55:03, ID: ST171224M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171224M1-8 PFC CS5 17L1209	1.09e4	94.9	NO
2	2 13C5-PFHxA	ST171224M1-8 PFC CS5 17L1209	1.50e4	98.9	NO
3	3 13C3-PFHxS	ST171224M1-8 PFC CS5 17L1209	3.12e3	94.4	NO
4	4 13C8-PFOA	ST171224M1-8 PFC CS5 17L1209	1.08e4	100.2	NO
5	5 13C9-PFNA	ST171224M1-8 PFC CS5 17L1209	1.23e4	98.0	NO
6	6 13C4-PFOS	ST171224M1-8 PFC CS5 17L1209	3.64e3	105.5	NO
7	7 13C6-PFDA	ST171224M1-8 PFC CS5 17L1209	9.57e3	101.3	NO
8	8 13C7-PFUDa	ST171224M1-8 PFC CS5 17L1209	1.07e4	104.9	NO

Name: 171224M1\_10, Date: 24-Dec-2017, Time: 14:06:14, ID: ST171224M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171224M1-9 PFC CS6 17L1803	1.08e4	93.7	NO
2	2 13C5-PFHxA	ST171224M1-9 PFC CS6 17L1803	1.39e4	91.8	NO
3	3 13C3-PFHxS	ST171224M1-9 PFC CS6 17L1803	2.81e3	84.9	NO
4	4 13C8-PFOA	ST171224M1-9 PFC CS6 17L1803	1.02e4	94.8	NO
5	5 13C9-PFNA	ST171224M1-9 PFC CS6 17L1803	1.10e4	87.7	NO
6	6 13C4-PFOS	ST171224M1-9 PFC CS6 17L1803	3.59e3	104.1	NO
7	7 13C6-PFDA	ST171224M1-9 PFC CS6 17L1803	8.06e3	85.3	NO
8	8 13C7-PFUDa	ST171224M1-9 PFC CS6 17L1803	9.02e3	88.3	NO

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_IIS AREAS.qld

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**Name: 171224M1\_11, Date: 24-Dec-2017, Time: 14:17:25, ID: ST171224M1-10 PFC CS7 17L1804, Description: PFC CS7 17L1804**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171224M1-10 PFC CS7 17L1804	1.06e4	92.3	NO
2	2 13C5-PFHxA	ST171224M1-10 PFC CS7 17L1804	1.30e4	85.7	NO
3	3 13C3-PFHxS	ST171224M1-10 PFC CS7 17L1804	2.81e3	85.0	NO
4	4 13C8-PFOA	ST171224M1-10 PFC CS7 17L1804	8.85e3	82.2	NO
5	5 13C9-PFNA	ST171224M1-10 PFC CS7 17L1804	9.06e3	72.0	NO
6	6 13C4-PFOS	ST171224M1-10 PFC CS7 17L1804	3.13e3	90.7	NO
7	7 13C6-PFDA	ST171224M1-10 PFC CS7 17L1804	7.79e3	82.4	NO
8	8 13C7-PFUDa	ST171224M1-10 PFC CS7 17L1804	9.64e3	94.4	NO

**Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA	1.69e1	0.5	NO
7	7 13C6-PFDA	IPA	4.32e1	0.5	NO
8	8 13C7-PFUDa	IPA	5.34e1	0.5	NO

**Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ICV171224M1-1 PFC ICV 17L1201	1.15e4	100.0	NO
2	2 13C5-PFHxA	ICV171224M1-1 PFC ICV 17L1201	1.53e4	101.3	NO
3	3 13C3-PFHxS	ICV171224M1-1 PFC ICV 17L1201	3.06e3	92.5	NO
4	4 13C8-PFOA	ICV171224M1-1 PFC ICV 17L1201	1.11e4	103.2	NO
5	5 13C9-PFNA	ICV171224M1-1 PFC ICV 17L1201	1.24e4	98.8	NO
6	6 13C4-PFOS	ICV171224M1-1 PFC ICV 17L1201	3.34e3	96.8	NO
7	7 13C6-PFDA	ICV171224M1-1 PFC ICV 17L1201	9.04e3	95.6	NO
8	8 13C7-PFUDa	ICV171224M1-1 PFC ICV 17L1201	1.24e4	121.0	NO

**Name: 171224M1\_14, Date: 24-Dec-2017, Time: 14:50:57, ID: IPA, Description: IPA**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	6.88e0	0.1	YES
5	5 13C9-PFNA	IPA	1.49e1	0.1	YES
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA	3.01e1	0.3	YES
8	8 13C7-PFUDa	IPA			NO

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_IIS AREAS.qld

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**Name: 171224M1\_15, Date: 24-Dec-2017, Time: 15:02:08, ID: B7L0037-BS1 OPR 0.25, Description: OPR**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0037-BS1 OPR 0.25	6.91e3	60.1	NO
2	2 13C5-PFHxA	B7L0037-BS1 OPR 0.25	9.76e3	64.6	NO
3	3 13C3-PFHxS	B7L0037-BS1 OPR 0.25	2.27e3	68.8	NO
4	4 13C8-PFOA	B7L0037-BS1 OPR 0.25	7.65e3	71.0	NO
5	5 13C9-PFNA	B7L0037-BS1 OPR 0.25	7.85e3	62.3	NO
6	6 13C4-PFOS	B7L0037-BS1 OPR 0.25	2.38e3	69.1	NO
7	7 13C6-PFDA	B7L0037-BS1 OPR 0.25	6.35e3	67.2	NO
8	8 13C7-PFUDa	B7L0037-BS1 OPR 0.25	7.68e3	75.2	NO

**Name: 171224M1\_16, Date: 24-Dec-2017, Time: 15:13:19, ID: B7L0037-BSD1 LCSD 0.25, Description: LCSD**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0037-BSD1 LCSD 0.25	7.07e3	61.5	NO
2	2 13C5-PFHxA	B7L0037-BSD1 LCSD 0.25	9.62e3	63.6	NO
3	3 13C3-PFHxS	B7L0037-BSD1 LCSD 0.25	2.08e3	62.8	NO
4	4 13C8-PFOA	B7L0037-BSD1 LCSD 0.25	7.29e3	67.7	NO
5	5 13C9-PFNA	B7L0037-BSD1 LCSD 0.25	7.81e3	62.0	NO
6	6 13C4-PFOS	B7L0037-BSD1 LCSD 0.25	2.09e3	60.6	NO
7	7 13C6-PFDA	B7L0037-BSD1 LCSD 0.25	6.05e3	64.0	NO
8	8 13C7-PFUDa	B7L0037-BSD1 LCSD 0.25	7.02e3	68.8	NO

**Name: 171224M1\_17, Date: 24-Dec-2017, Time: 15:24:29, ID: IPA, Description: IPA**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	3.43e1	0.3	YES
6	6 13C4-PFOS	IPA	1.41e1	0.4	YES
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUDa	IPA	2.19e2	2.1	YES

**Name: 171224M1\_18, Date: 24-Dec-2017, Time: 15:35:40, ID: B7L0037-BLK1 Method Blank 0.25, Description: Method Blank**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0037-BLK1 Method Blank 0.25	6.93e3	60.3	NO
2	2 13C5-PFHxA	B7L0037-BLK1 Method Blank 0.25	9.15e3	60.5	NO
3	3 13C3-PFHxS	B7L0037-BLK1 Method Blank 0.25	2.27e3	68.8	NO
4	4 13C8-PFOA	B7L0037-BLK1 Method Blank 0.25	7.79e3	72.4	NO
5	5 13C9-PFNA	B7L0037-BLK1 Method Blank 0.25	8.78e3	69.7	NO
6	6 13C4-PFOS	B7L0037-BLK1 Method Blank 0.25	2.05e3	59.3	NO
7	7 13C6-PFDA	B7L0037-BLK1 Method Blank 0.25	7.78e3	82.4	NO
8	8 13C7-PFUDa	B7L0037-BLK1 Method Blank 0.25	8.64e3	84.7	NO

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**Name: 171224M1\_19, Date: 24-Dec-2017, Time: 15:46:51, ID: 1701799-01 MTBE\_14102 0.24791, Description: MTBE\_14102**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701799-01 MTBE_14102 0.24791	7.22e3	62.8	NO
2	2 13C5-PFHxA	1701799-01 MTBE_14102 0.24791	1.04e4	68.5	NO
3	3 13C3-PFHxS	1701799-01 MTBE_14102 0.24791	2.20e3	66.4	NO
4	4 13C8-PFOA	1701799-01 MTBE_14102 0.24791	8.13e3	75.5	NO
5	5 13C9-PFNA	1701799-01 MTBE_14102 0.24791	7.98e3	63.4	NO
6	6 13C4-PFOS	1701799-01 MTBE_14102 0.24791	2.56e3	74.2	NO
7	7 13C6-PFDA	1701799-01 MTBE_14102 0.24791	5.97e3	63.1	NO
8	8 13C7-PFUDa	1701799-01 MTBE_14102 0.24791	8.16e3	79.9	NO

**Name: 171224M1\_20, Date: 24-Dec-2017, Time: 15:58:01, ID: 1701809-01 62 Townsend Way 0.11675, Description: 62 Townsend Way**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701809-01 62 Townsend Way 0.11675	7.28e3	63.4	NO
2	2 13C5-PFHxA	1701809-01 62 Townsend Way 0.11675	9.66e3	63.9	NO
3	3 13C3-PFHxS	1701809-01 62 Townsend Way 0.11675	1.96e3	59.2	NO
4	4 13C8-PFOA	1701809-01 62 Townsend Way 0.11675	6.92e3	64.2	NO
5	5 13C9-PFNA	1701809-01 62 Townsend Way 0.11675	8.16e3	64.8	NO
6	6 13C4-PFOS	1701809-01 62 Townsend Way 0.11675	2.74e3	79.5	NO
7	7 13C6-PFDA	1701809-01 62 Townsend Way 0.11675	7.59e3	80.3	NO
8	8 13C7-PFUDa	1701809-01 62 Townsend Way 0.11675	8.62e3	84.4	NO

**Name: 171224M1\_21, Date: 24-Dec-2017, Time: 16:09:12, ID: 1701809-02 72 Townsend Way 0.11358, Description: 72 Townsend Way**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701809-02 72 Townsend Way 0.11358	7.14e3	62.1	NO
2	2 13C5-PFHxA	1701809-02 72 Townsend Way 0.11358	1.02e4	67.7	NO
3	3 13C3-PFHxS	1701809-02 72 Townsend Way 0.11358	2.12e3	64.0	NO
4	4 13C8-PFOA	1701809-02 72 Townsend Way 0.11358	6.88e3	63.9	NO
5	5 13C9-PFNA	1701809-02 72 Townsend Way 0.11358	8.31e3	66.0	NO
6	6 13C4-PFOS	1701809-02 72 Townsend Way 0.11358	2.33e3	67.6	NO
7	7 13C6-PFDA	1701809-02 72 Townsend Way 0.11358	5.86e3	62.0	NO
8	8 13C7-PFUDa	1701809-02 72 Townsend Way 0.11358	7.14e3	69.9	NO

**Name: 171224M1\_22, Date: 24-Dec-2017, Time: 16:20:23, ID: 1701822-01 WR1711291350MK 0.25256, Description: WR1711291350MK**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701822-01 WR1711291350MK 0.25256	6.94e3	60.4	NO
2	2 13C5-PFHxA	1701822-01 WR1711291350MK 0.25256	9.46e3	62.6	NO
3	3 13C3-PFHxS	1701822-01 WR1711291350MK 0.25256	2.28e3	68.9	NO
4	4 13C8-PFOA	1701822-01 WR1711291350MK 0.25256	7.94e3	73.7	NO
5	5 13C9-PFNA	1701822-01 WR1711291350MK 0.25256	7.07e3	56.1	NO
6	6 13C4-PFOS	1701822-01 WR1711291350MK 0.25256	2.18e3	63.1	NO
7	7 13C6-PFDA	1701822-01 WR1711291350MK 0.25256	6.91e3	73.1	NO
8	8 13C7-PFUDa	1701822-01 WR1711291350MK 0.25256	7.90e3	77.4	NO



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**Name: 171224M1\_23, Date: 24-Dec-2017, Time: 16:31:33, ID: 1701822-02 WT1711291410MK 0.25428, Description: WT1711291410MK**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701822-02 WT1711291410MK 0.25428	6.89e3	60.0	NO
2	2 13C5-PFHxA	1701822-02 WT1711291410MK 0.25428	9.13e3	60.4	NO
3	3 13C3-PFHxS	1701822-02 WT1711291410MK 0.25428	2.44e3	74.0	NO
4	4 13C8-PFOA	1701822-02 WT1711291410MK 0.25428	7.73e3	71.8	NO
5	5 13C9-PFNA	1701822-02 WT1711291410MK 0.25428	9.35e3	74.2	NO
6	6 13C4-PFOS	1701822-02 WT1711291410MK 0.25428	2.42e3	70.2	NO
7	7 13C6-PFDA	1701822-02 WT1711291410MK 0.25428	5.83e3	61.7	NO
8	8 13C7-PFUDa	1701822-02 WT1711291410MK 0.25428	7.24e3	70.9	NO

**Name: 171224M1\_24, Date: 24-Dec-2017, Time: 16:42:44, ID: 1701822-03 FB1711291415MK 0.25507, Description: FB1711291415MK**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701822-03 FB1711291415MK 0.25507	6.93e3	60.3	NO
2	2 13C5-PFHxA	1701822-03 FB1711291415MK 0.25507	1.00e4	66.2	NO
3	3 13C3-PFHxS	1701822-03 FB1711291415MK 0.25507	2.42e3	73.1	NO
4	4 13C8-PFOA	1701822-03 FB1711291415MK 0.25507	8.01e3	74.4	NO
5	5 13C9-PFNA	1701822-03 FB1711291415MK 0.25507	7.61e3	60.5	NO
6	6 13C4-PFOS	1701822-03 FB1711291415MK 0.25507	2.05e3	59.5	NO
7	7 13C6-PFDA	1701822-03 FB1711291415MK 0.25507	6.44e3	68.1	NO
8	8 13C7-PFUDa	1701822-03 FB1711291415MK 0.25507	8.33e3	81.5	NO

**Name: 171224M1\_25, Date: 24-Dec-2017, Time: 16:53:55, ID: 1701822-04 WT1711291430MK 0.25342, Description: WT1711291430MK**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701822-04 WT1711291430MK 0.25342	6.61e3	57.5	NO
2	2 13C5-PFHxA	1701822-04 WT1711291430MK 0.25342	9.05e3	59.8	NO
3	3 13C3-PFHxS	1701822-04 WT1711291430MK 0.25342	2.04e3	61.6	NO
4	4 13C8-PFOA	1701822-04 WT1711291430MK 0.25342	6.25e3	58.0	NO
5	5 13C9-PFNA	1701822-04 WT1711291430MK 0.25342	6.76e3	53.7	NO
6	6 13C4-PFOS	1701822-04 WT1711291430MK 0.25342	1.86e3	53.9	NO
7	7 13C6-PFDA	1701822-04 WT1711291430MK 0.25342	5.61e3	59.4	NO
8	8 13C7-PFUDa	1701822-04 WT1711291430MK 0.25342	7.55e3	73.9	NO

**Name: 171224M1\_26, Date: 24-Dec-2017, Time: 17:05:05, ID: 1701822-05 WT1711291445MK 0.25014, Description: WT1711291445MK**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701822-05 WT1711291445MK 0.25014	7.04e3	61.2	NO
2	2 13C5-PFHxA	1701822-05 WT1711291445MK 0.25014	9.89e3	65.4	NO
3	3 13C3-PFHxS	1701822-05 WT1711291445MK 0.25014	2.25e3	68.0	NO
4	4 13C8-PFOA	1701822-05 WT1711291445MK 0.25014	7.02e3	65.2	NO
5	5 13C9-PFNA	1701822-05 WT1711291445MK 0.25014	8.54e3	67.8	NO
6	6 13C4-PFOS	1701822-05 WT1711291445MK 0.25014	2.17e3	63.0	NO
7	7 13C6-PFDA	1701822-05 WT1711291445MK 0.25014	7.54e3	79.8	NO
8	8 13C7-PFUDa	1701822-05 WT1711291445MK 0.25014	8.66e3	84.9	NO

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**Name: 171224M1\_27, Date: 24-Dec-2017, Time: 17:16:16, ID: 1701822-06 WT1711291525MK 0.24603, Description: WT1711291525MK**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701822-06 WT1711291525MK 0.24603	6.68e3	58.2	NO
2	2 13C5-PFHxA	1701822-06 WT1711291525MK 0.24603	9.21e3	60.9	NO
3	3 13C3-PFHxS	1701822-06 WT1711291525MK 0.24603	1.79e3	54.2	NO
4	4 13C8-PFOA	1701822-06 WT1711291525MK 0.24603	6.67e3	62.0	NO
5	5 13C9-PFNA	1701822-06 WT1711291525MK 0.24603	7.82e3	62.1	NO
6	6 13C4-PFOS	1701822-06 WT1711291525MK 0.24603	2.45e3	70.9	NO
7	7 13C6-PFDA	1701822-06 WT1711291525MK 0.24603	6.66e3	70.5	NO
8	8 13C7-PFUDa	1701822-06 WT1711291525MK 0.24603	7.20e3	70.5	NO

**Name: 171224M1\_28, Date: 24-Dec-2017, Time: 17:27:27, ID: 1701822-07 WT1711291530MK 0.24388, Description: WT1711291530MK**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701822-07 WT1711291530MK 0.24388	5.99e3	52.1	NO
2	2 13C5-PFHxA	1701822-07 WT1711291530MK 0.24388	8.90e3	58.8	NO
3	3 13C3-PFHxS	1701822-07 WT1711291530MK 0.24388	2.17e3	65.8	NO
4	4 13C8-PFOA	1701822-07 WT1711291530MK 0.24388	6.58e3	61.1	NO
5	5 13C9-PFNA	1701822-07 WT1711291530MK 0.24388	6.63e3	52.6	NO
6	6 13C4-PFOS	1701822-07 WT1711291530MK 0.24388	2.39e3	69.2	NO
7	7 13C6-PFDA	1701822-07 WT1711291530MK 0.24388	6.29e3	66.5	NO
8	8 13C7-PFUDa	1701822-07 WT1711291530MK 0.24388	6.88e3	67.4	NO

**Name: 171224M1\_29, Date: 24-Dec-2017, Time: 17:38:38, 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	1.66e1	0.1	YES
6	6 13C4-PFOS	IPA	1.36e1	0.4	YES
7	7 13C6-PFDA	IPA	3.20e1	0.3	YES
8	8 13C7-PFUDa	IPA	6.41e1	0.6	YES

**Name: 171224M1\_30, Date: 24-Dec-2017, Time: 17:49:48, ID: ST171224M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST171224M1-11 PFC CS3 17L1207	1.18e4	102.6	NO
2	2 13C5-PFHxA	ST171224M1-11 PFC CS3 17L1207	1.62e4	107.3	NO
3	3 13C3-PFHxS	ST171224M1-11 PFC CS3 17L1207	3.23e3	97.7	NO
4	4 13C8-PFOA	ST171224M1-11 PFC CS3 17L1207	1.37e4	127.5	NO
5	5 13C9-PFNA	ST171224M1-11 PFC CS3 17L1207	1.15e4	91.3	NO
6	6 13C4-PFOS	ST171224M1-11 PFC CS3 17L1207	3.44e3	99.7	NO
7	7 13C6-PFDA	ST171224M1-11 PFC CS3 17L1207	1.00e4	105.8	NO
8	8 13C7-PFUDa	ST171224M1-11 PFC CS3 17L1207	1.31e4	128.3	NO

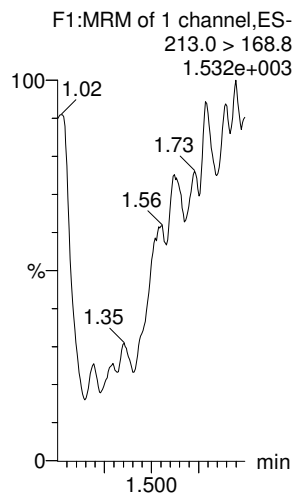
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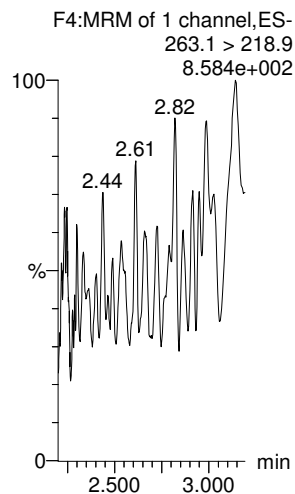
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Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

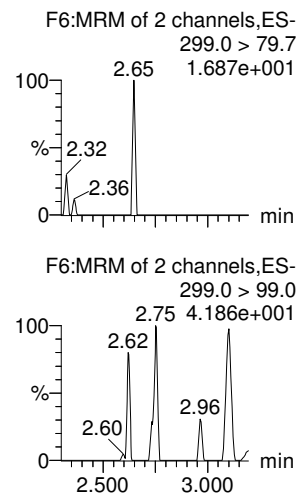
**PFBA**



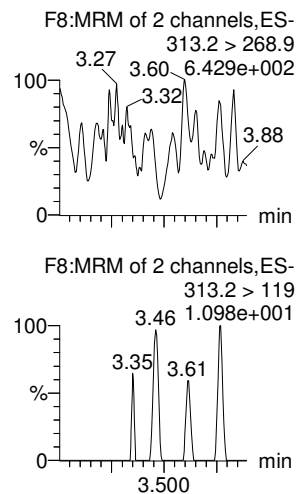
**PFPeA**



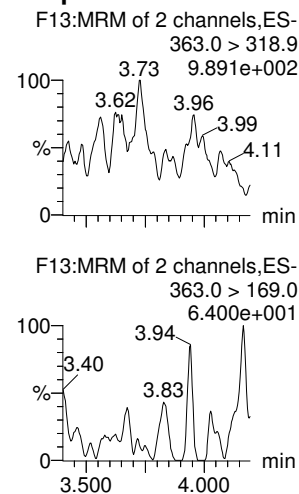
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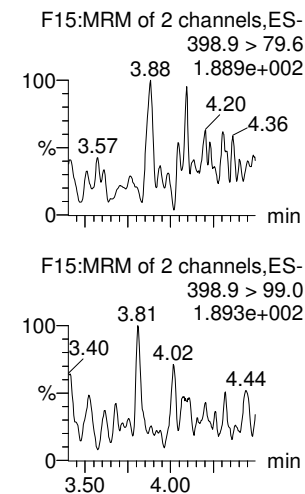
**PFHxA**



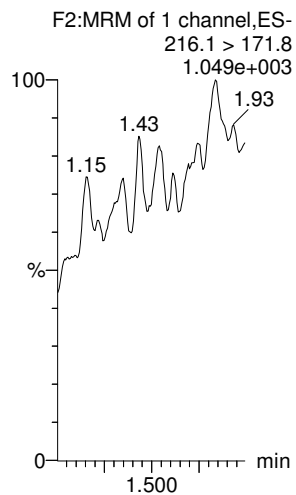
**PFHpA**



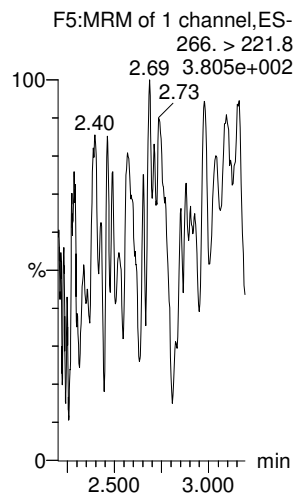
**L-PFHxS**



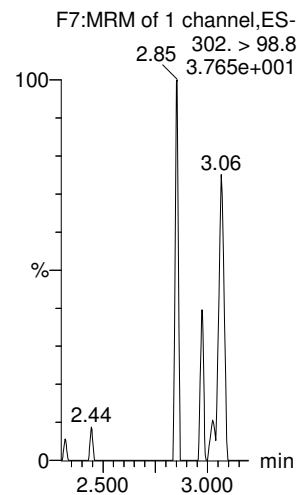
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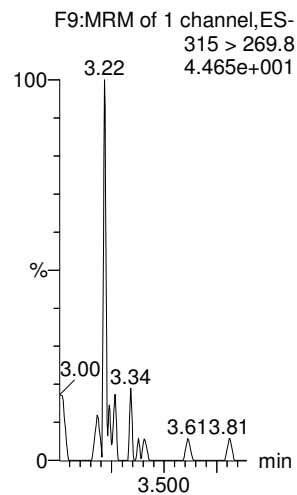
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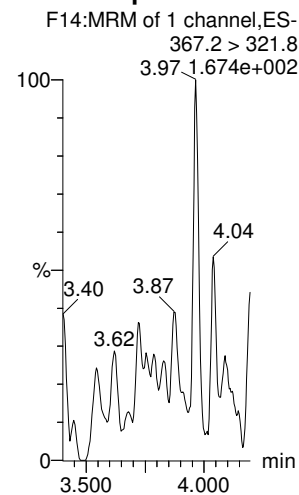
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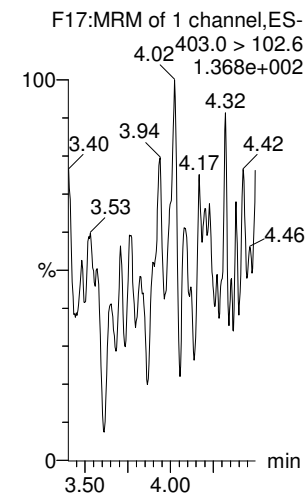
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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**6:2 FTS**

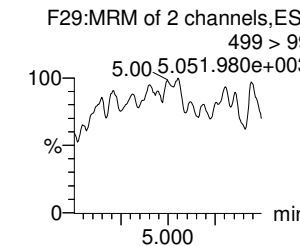
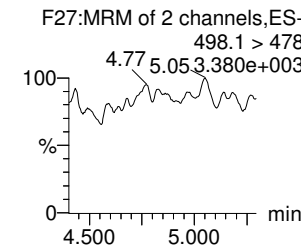
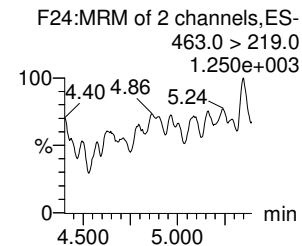
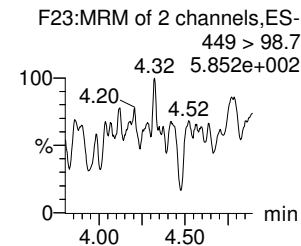
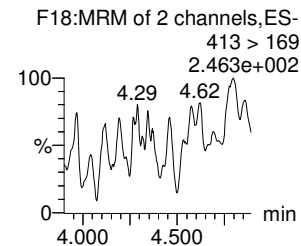
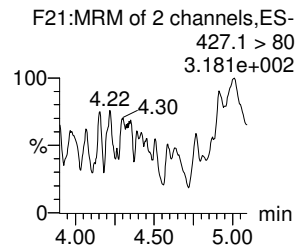
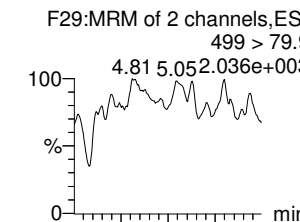
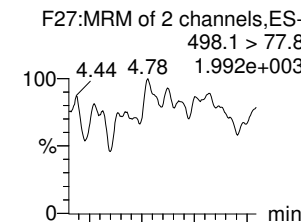
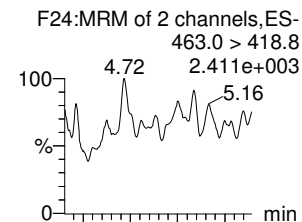
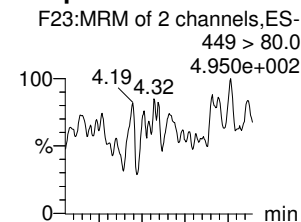
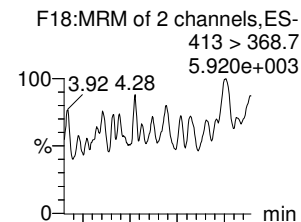
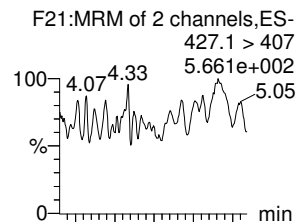
**L-PFOA**

**PFHpS**

**PFNA**

**PFOSA**

**L-PFOS**



**13C2-6:2 FTS**

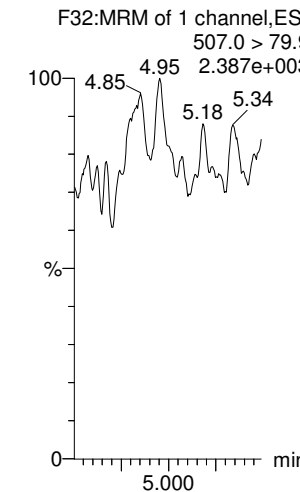
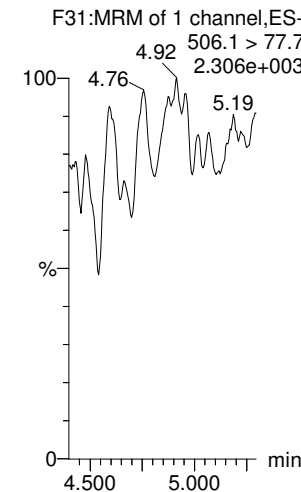
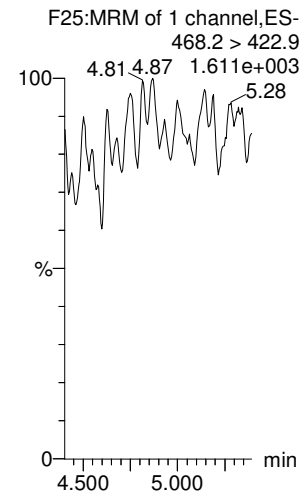
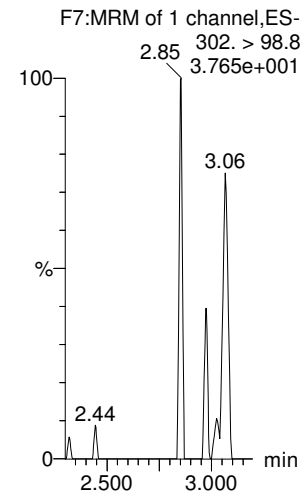
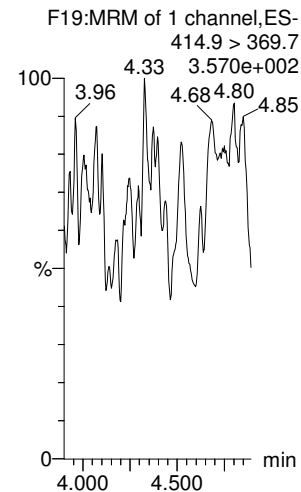
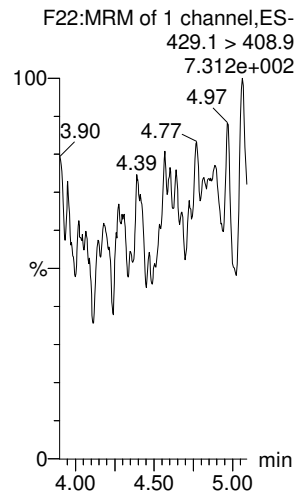
**13C2-PFOA**

**13C3-PFBS**

**13C5-PFNA**

**13C8-PFOA**

**13C8-PFOS**



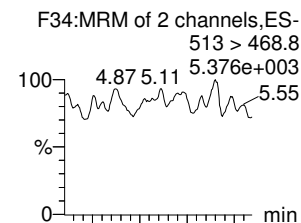
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Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time

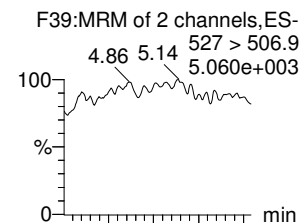
Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

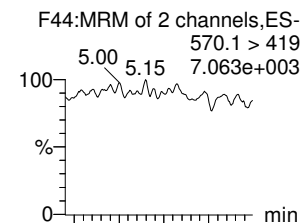
**PFDA**



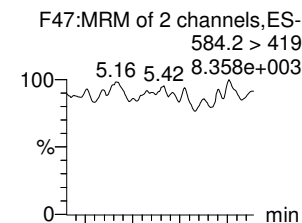
**8:2 FTS**



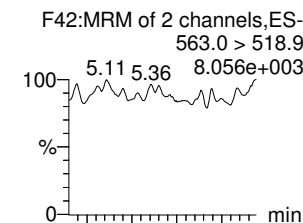
**N-MeFOSAA**



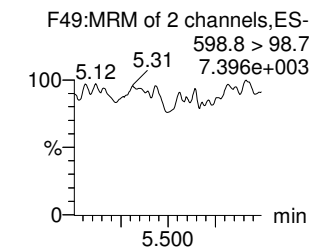
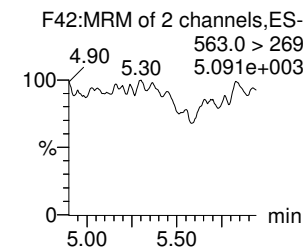
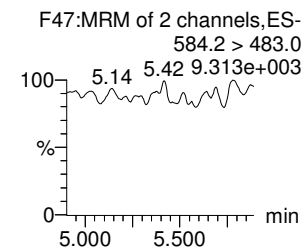
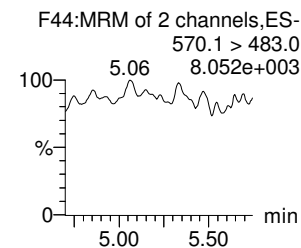
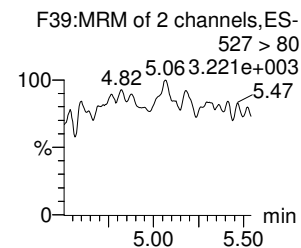
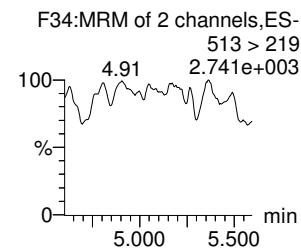
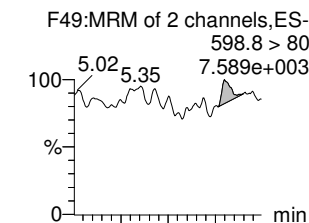
**N-EtFOSAA**



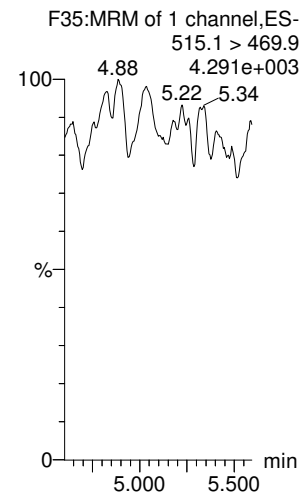
**PFUdA**



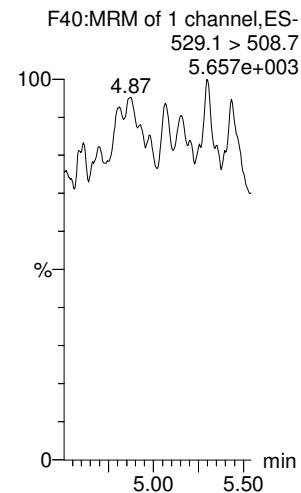
**PFDS**



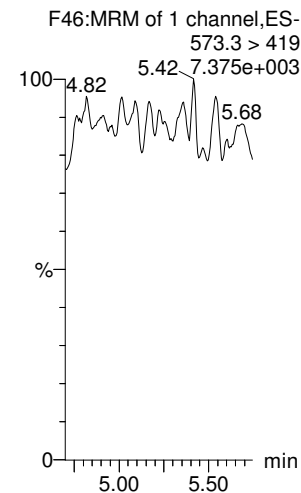
**13C2-PFDA**



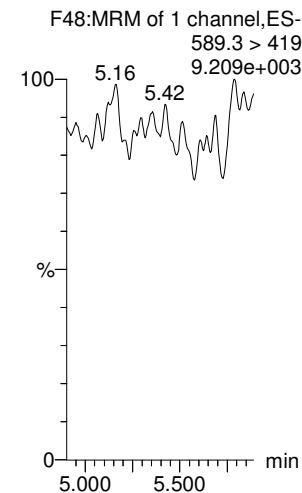
**13C2-8:2 FTS**



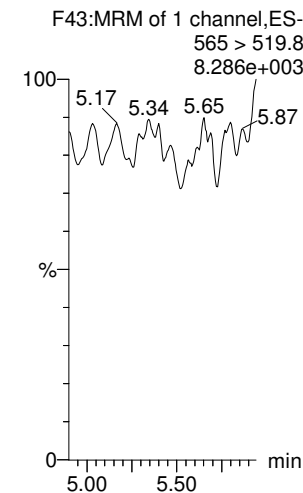
**d3-N-MeFOSAA**



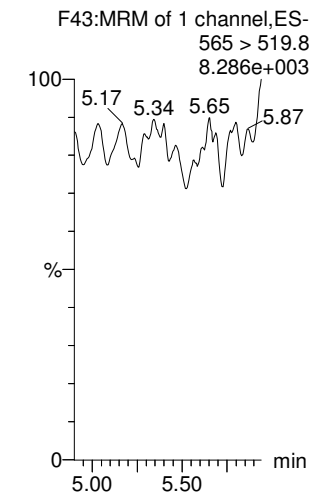
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



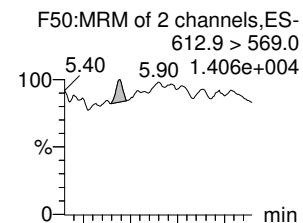
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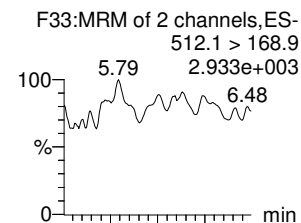
Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

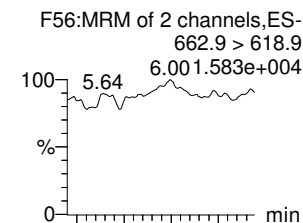
**PFDoA**



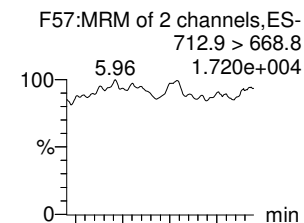
**N-MeFOSA**



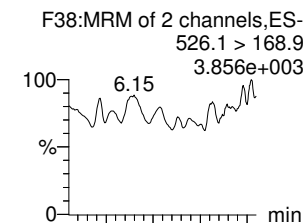
**PFTrDA**



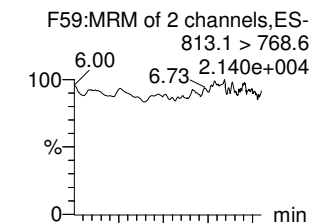
**PFTeDA**



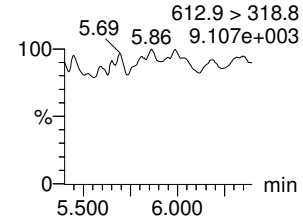
**N-EtFOSA**



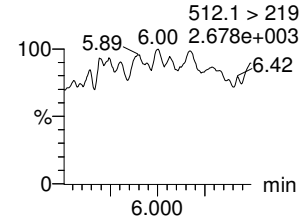
**PFHxDA**



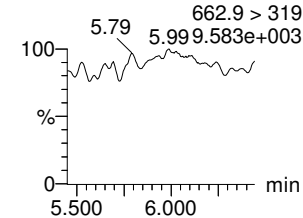
**PFDoA**



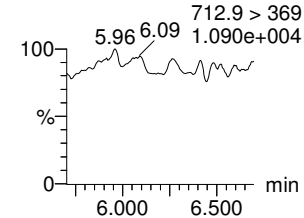
**N-MeFOSA**



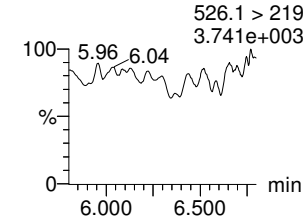
**PFTrDA**



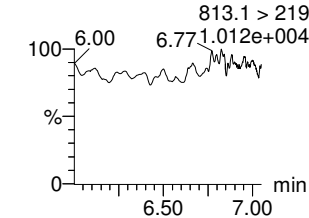
**PFTeDA**



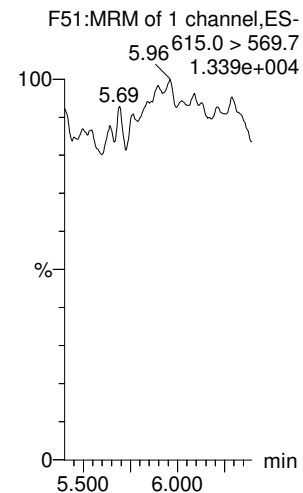
**N-EtFOSA**



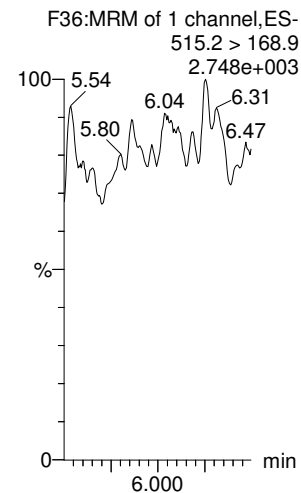
**PFHxDA**



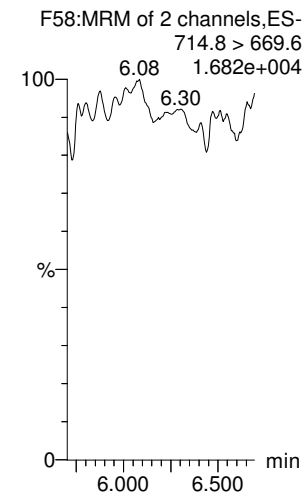
**13C2-PFDoA**



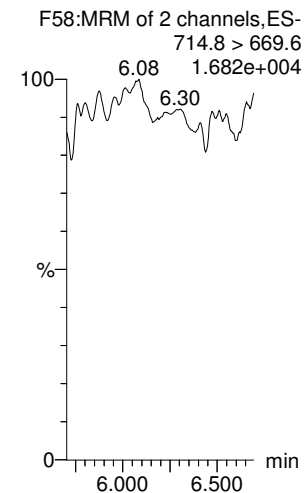
**d3-N-MeFOSA**



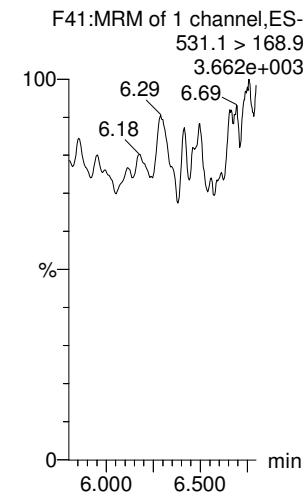
**13C2-PFTeDA**



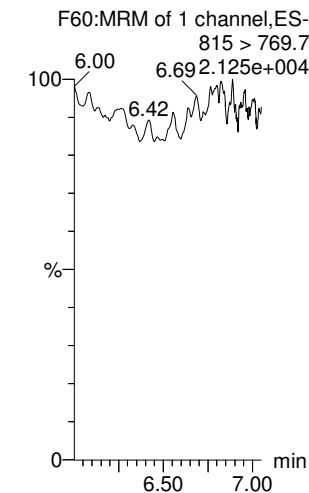
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



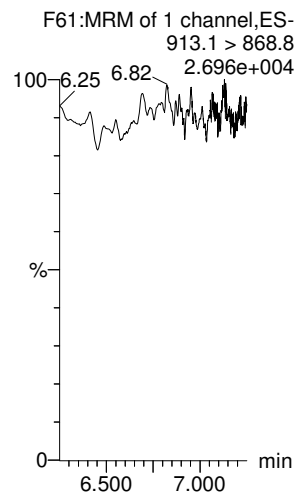
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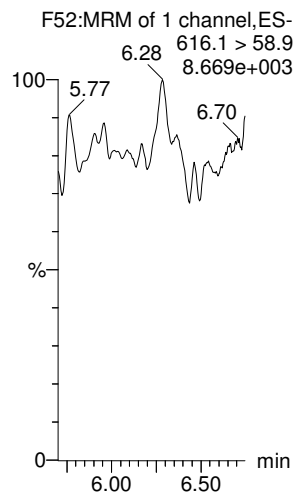
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Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

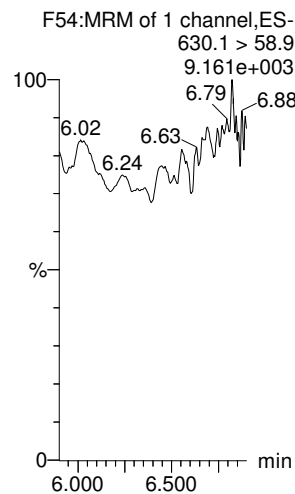
**PFODA**



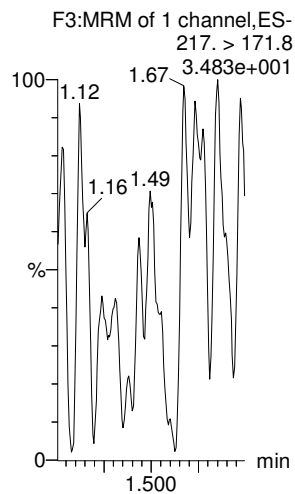
**N-MeFOSE**



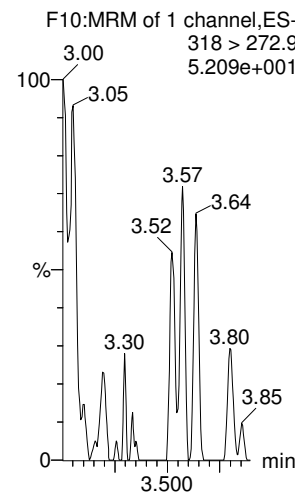
**N-EtFOSE**



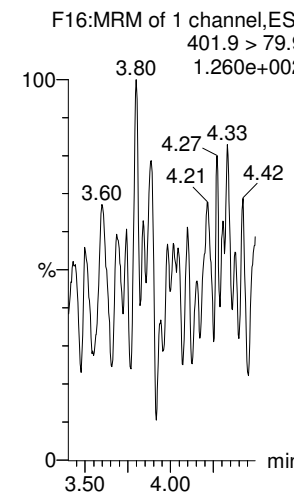
**13C4-PFBA**



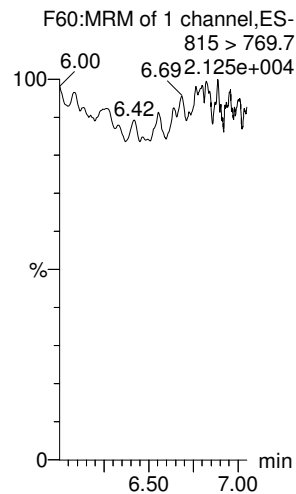
**13C5-PFHxA**



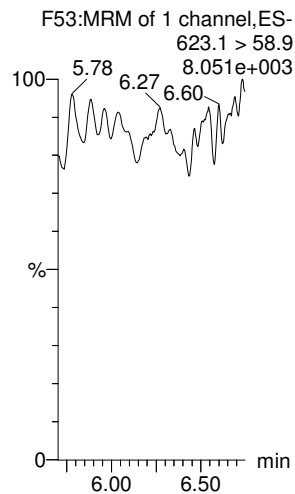
**13C3-PFHxS**



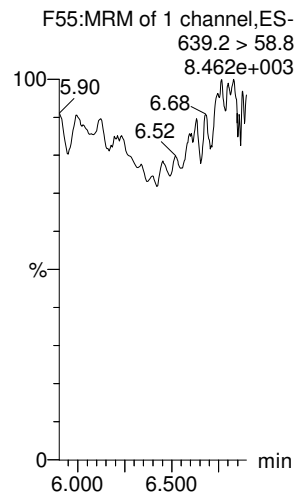
**13C2-PFHxDA**



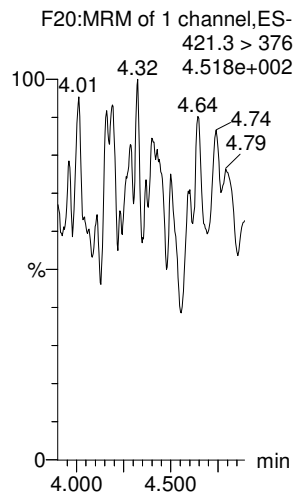
**d7-N-MeFOSE**



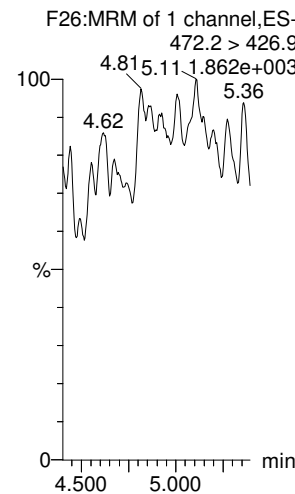
**d9-N-EtFOSE**



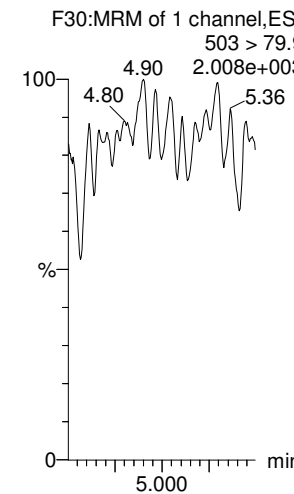
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



Dataset: Untitled

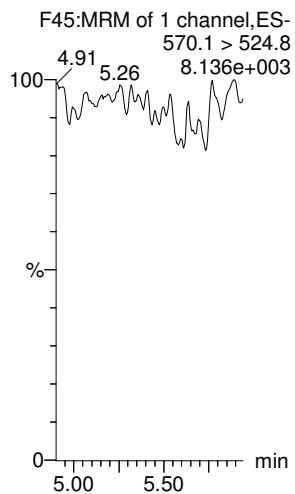
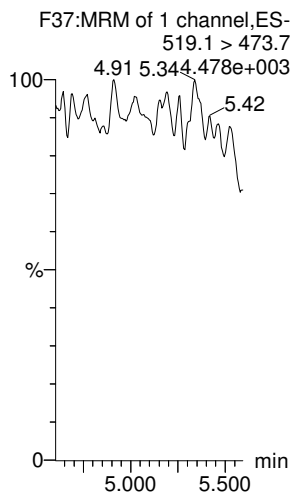
Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

13C6-PFDA

13C7-PFUdA





Dataset: U:\Q4.PRO\results\171224M1\171224M1\_30.qld

Last Altered: Tuesday, December 26, 2017 15:01:03 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 15:01:48 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 14:44:36  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

*P. 12/26/17*

*JAA. 12/27/2017*

Name: 171224M1\_30, Date: 24-Dec-2017, Time: 17:49:48, ID: ST171224M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.01e4	1.06e4	1.0000		1.47	1.47	11.9	9.819	98.2
2	2 PFPeA	263.1 > 218.9	1.21e4	1.39e4	1.0000		2.44	2.44	10.9	10.149	101.5
3	3 PFBs	299.0 > 79.7	3.12e3	1.67e3	1.0000		2.70	2.71	23.4	11.067	110.7
4	4 PFHxA	313.2 > 268.9	1.41e4	4.71e3	1.0000		3.20	3.20	15.0	10.230	102.3
5	5 PFHpA	363.0 > 318.9	1.11e4	9.68e3	1.0000		3.80	3.81	14.4	9.386	93.9
6	6 L-PFHxS	398.9 > 79.6	2.73e3	1.45e3	1.0000		3.95	3.95	23.5	10.408	104.1
7	8 6:2 FTS	427.1 > 407	2.62e3	1.49e4	1.0000		4.26	4.27	2.20	10.071	100.7
8	9 L-PFOA	413 > 368.7	1.31e4	1.49e4	1.0000		4.32	4.32	11.0	9.735	97.4
9	11 PFHpS	449 > 80.0	2.73e3	1.49e4	1.0000		4.43	4.42	2.30	9.155	91.5
10	12 PFNA	463.0 > 418.8	1.40e4	1.14e4	1.0000		4.75	4.75	15.4	10.441	104.4
11	13 PFOSA	498.1 > 77.8	3.40e3	4.38e3	1.0000		4.81	4.80	9.69	10.220	102.2
12	14 L-PFOS	499 > 79.9	3.28e3	3.46e3	1.0000		4.83	4.83	11.8	10.589	105.9
13	16 PFDA	513 > 468.8	1.47e4	1.29e4	1.0000		5.11	5.11	14.3	10.550	105.5
14	17 8:2 FTS	527 > 506.9	2.62e3	1.29e4	1.0000		5.09	5.09	2.55	9.965	99.6
15	18 N-MeFOSAA	570.1 > 419	8.24e3	4.27e3	1.0000		5.26	5.26	24.1	12.169	121.7
16	19 N-EtFOSAA	584.2 > 419	4.05e3	5.42e3	1.0000		5.42	5.42	9.34	7.231	72.3
17	20 PFUdA	563.0 > 518.9	1.32e4	1.45e4	1.0000		5.43	5.43	11.4	10.787	107.9
18	21 PFDS	598.8 > 80	3.64e3	1.45e4	1.0000		5.50	5.47	3.14	9.947	99.5
19	22 PFDoA	612.9 > 569.0	1.33e4	7.51e3	1.0000		5.70	5.70	22.1	10.511	105.1
20	23 N-MeFOSA	512.1 > 168.9	8.70e3	2.13e4	1.0000		5.77	5.77	61.2	59.061	118.1
21	24 PFTrDA	662.9 > 618.9	1.32e4	6.91e3	1.0000		5.95	5.95	23.8	9.733	97.3
22	25 PFTeDA	712.9 > 668.8	9.43e3	6.91e3	1.0000		6.16	6.16	17.1	9.185	91.8
23	26 N-EtFOSA	526.1 > 168.9	1.08e4	3.22e4	1.0000		6.15	6.16	50.4	52.278	104.6
24	27 PFHxDA	813.1 > 768.6	5.31e3	4.19e3	1.0000		6.48	6.48	6.34	10.400	104.0
25	28 PFODA	913.1 > 868.8	6.52e3	4.19e3	1.0000		6.70	6.70	7.78	10.799	108.0
26	29 N-MeFOSE	616.1 > 58.9	1.03e4	2.90e4	1.0000		6.30	6.30	53.3	50.101	100.2
27	30 N-EtFOSE	630.1 > 58.9	1.08e4	2.49e4	1.0000		6.42	6.45	65.2	58.599	117.2
28	31 13C3-PFBA	216.1 > 171.8	1.06e4	1.18e4	1.0000	0.895	1.47	1.47	11.3	12.611	100.9
29	32 13C3-PFPeA	266. > 221.8	1.39e4	1.62e4	1.0000	0.867	2.44	2.44	10.7	12.314	98.5
30	33 13C3-PFBs	302. > 98.8	1.67e3	1.62e4	1.0000	0.109	2.70	2.71	1.28	11.817	94.5
31	34 13C3-PFHxA	315 > 269.8	4.71e3	1.62e4	1.0000	0.777	3.20	3.20	3.62	4.663	93.3

70-130

50-150

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_30.qld

Last Altered: Tuesday, December 26, 2017 15:01:03 Pacific Standard Time

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Ⓢ Not used

Name: 171224M1\_30, Date: 24-Dec-2017, Time: 17:49:48, ID: ST171224M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	9.68e3	1.62e4	1.0000	0.600	3.80	3.81	7.45	12.424	99.4
33	36 18O2-PFHxS	403.0 > 102.6	1.45e3	3.23e3	1.0000	0.444	3.95	3.95	5.63	12.667	101.3
34	37 13C2-6:2 FTS Ⓢ	429.1 > 408.9	2.93e3	1.37e4	1.0000	0.385	4.26	4.27	2.67	6.929	55.4
35	38 13C2-PFOA	414.9 > 369.7	1.49e4	1.37e4	1.0000	1.237	4.32	4.32	13.5	10.941	87.5
36	39 13C5-PFNA	468.2 > 422.9	1.14e4	1.15e4	1.0000	0.911	4.75	4.75	12.4	13.618	108.9
37	40 13C8-PFOSA	506.1 > 77.7	4.38e3	1.31e4	1.0000	0.400	4.81	4.81	4.18	10.453	83.6
38	41 13C8-PFOS	507.0 > 79.9	3.46e3	3.42e3	1.0000	1.009	4.83	4.83	12.7	12.543	100.3
39	42 13C2-PFDA	515.1 > 469.9	1.29e4	1.00e4	1.0000	1.195	5.11	5.11	16.1	13.439	107.5
40	43 13C2-8:2 FTS Ⓢ	529.1 > 508.7	1.77e3	1.62e4	1.0000	0.168	5.09	5.08	1.36	8.109	64.9
41	44 d3-N-MeFOSAA	573.3 > 419	4.27e3	1.31e4	1.0000	0.418	5.26	5.26	4.08	9.742	77.9
42	45 d5-N-EiFOSAA	589.3 > 419	5.42e3	1.31e4	1.0000	0.445	5.42	5.41	5.18	11.637	93.1
43	46 13C2-PFUdA	565 > 519.8	1.45e4	1.31e4	1.0000	1.212	5.43	5.43	13.8	11.385	91.1
44	47 13C2-PFDoA	615.0 > 569.7	7.51e3	1.31e4	1.0000	0.685	5.70	5.70	7.17	10.465	83.7
45	48 d3-N-MeFOSA	515.2 > 168.9	2.13e4	1.31e4	1.0000	0.155	5.80	5.79	20.4	131.069	87.4
46	49 13C2-PFTeDA	714.8 > 669.6	6.91e3	1.31e4	1.0000	0.597	6.16	6.16	6.59	11.051	88.4
47	50 d5-N-ETFOSA	531.1 > 168.9	3.22e4	1.31e4	1.0000	0.227	6.16	6.17	30.7	135.072	90.0
48	51 13C2-PFHxDA	815 > 769.7	4.19e3	1.31e4	1.0000	0.902	6.48	6.48	4.00	4.431	88.6
49	52 d7-N-MeFOSE	623.1 > 58.9	2.90e4	1.31e4	1.0000	0.214	6.30	6.29	27.7	129.343	86.2
50	53 d9-N-EiFOSE	639.2 > 58.8	2.49e4	1.31e4	1.0000	0.219	6.42	6.44	23.8	108.794	72.5
51	54 13C4-PFBA	217. > 171.8	1.18e4	1.18e4	1.0000	1.000	1.47	1.48	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.62e4	1.62e4	1.0000	1.000	3.20	3.20	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.23e3	3.23e3	1.0000	1.000	3.95	3.95	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.37e4	1.37e4	1.0000	1.000	4.32	4.32	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.15e4	1.15e4	1.0000	1.000	4.75	4.75	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.42e3	3.42e3	1.0000	1.000	4.83	4.83	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.00e4	1.00e4	1.0000	1.000	5.11	5.11	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.31e4	1.31e4	1.0000	1.000	5.43	5.43	12.5	12.500	100.0

50-50  
↓

Dataset: Untitled

Last Altered: Wednesday, December 27, 2017 11:24:29 Pacific Standard Time  
Printed: Wednesday, December 27, 2017 11:34:01 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 14:44:36  
Calibration: 27 Dec 2017 11:24:29

Compound name: PFBA

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1	171224M1_1	IPA	24-Dec-17	12:25:39
2	171224M1_2	ST171224M1-1 PFC CS-2 17L1202	24-Dec-17	12:36:49
3	171224M1_3	ST171224M1-2 PFC CS-1 17L1203	24-Dec-17	12:47:59
4	171224M1_4	ST171224M1-3 PFC CS0 17L1204	24-Dec-17	12:59:10
5	171224M1_5	ST171224M1-4 PFC CS1 17L1205	24-Dec-17	13:10:21
6	171224M1_6	ST171224M1-5 PFC CS2 17L1802	24-Dec-17	13:21:32
7	171224M1_7	ST171224M1-6 PFC CS3 17L1207	24-Dec-17	13:32:42
8	171224M1_8	ST171224M1-7 PFC CS4 17L1208	24-Dec-17	13:43:53
9	171224M1_9	ST171224M1-8 PFC CS5 17L1209	24-Dec-17	13:55:03
10	171224M1_10	ST171224M1-9 PFC CS6 17L1803	24-Dec-17	14:06:14
11	171224M1_11	ST171224M1-10 PFC CS7 17L1804	24-Dec-17	14:17:25
12	171224M1_12	IPA	24-Dec-17	14:28:35
13	171224M1_13	ICV171224M1-1 PFC ICV 17L1201	24-Dec-17	14:39:47
14	171224M1_14	IPA	24-Dec-17	14:50:57
15	171224M1_15	B7L0037-BS1 OPR 0.25	24-Dec-17	15:02:08
16	171224M1_16	B7L0037-BSD1 LCSD 0.25	24-Dec-17	15:13:19
17	171224M1_17	IPA	24-Dec-17	15:24:29
18	171224M1_18	B7L0037-BLK1 Method Blank 0.25	24-Dec-17	15:35:40
19	171224M1_19	1701799-01 ██████████ 0.24791	24-Dec-17	15:46:51
20	171224M1_20	1701809-01 ██████████ 0.11675	24-Dec-17	15:58:01
21	171224M1_21	1701809-02 ██████████ 0.11358	24-Dec-17	16:09:12
22	171224M1_22	1701822-01 ██████████ 0.25256	24-Dec-17	16:20:23
23	171224M1_23	1701822-02 ██████████ 0.25428	24-Dec-17	16:31:33
24	171224M1_24	1701822-03 ██████████ 0.25507	24-Dec-17	16:42:44
25	171224M1_25	1701822-04 ██████████ 0.25342	24-Dec-17	16:53:55
26	171224M1_26	1701822-05 ██████████ 0.25014	24-Dec-17	17:05:05
27	171224M1_27	1701822-06 ██████████ 0.24603	24-Dec-17	17:16:16
28	171224M1_28	1701822-07 ██████████ 0.24388	24-Dec-17	17:27:27
29	171224M1_29	IPA	24-Dec-17	17:38:38
30	171224M1_30	ST171224M1-11 PFC CS3 17L1207	24-Dec-17	17:49:48
31	171224M1_31	IPA	24-Dec-17	18:00:59
32	171224M1_32	1701822-08 ██████████ 0.2494	24-Dec-17	18:12:10

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Last Altered: Wednesday, December 27, 2017 11:24:29 Pacific Standard Time

Printed: Wednesday, December 27, 2017 11:34:01 Pacific Standard Time

Compound name: PFBA

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34	171224M1_34	1701822-10 [REDACTED] 0.2415	24-Dec-17	18:34:31
35	171224M1_35	1701847-01 Trip Blank 0.11597	24-Dec-17	18:45:42
36	171224M1_36	1701847-02 [REDACTED] 5 0.11428	24-Dec-17	18:56:52
37	171224M1_37	1701847-03 [REDACTED] 1 0.11243	24-Dec-17	19:08:03
38	171224M1_38	1701847-04 [REDACTED] 2 0.11505	24-Dec-17	19:19:14
39	171224M1_39	1701847-05 Field Blank 0.11754	24-Dec-17	19:30:25
40	171224M1_40	B7L0064-BS1 OPR 0.25	24-Dec-17	19:41:36
41	171224M1_41	IPA	24-Dec-17	19:52:46
42	171224M1_42	B7L0064-BLK1 Method Blank 0.25	24-Dec-17	20:03:57
43	171224M1_43	B7L0064-MS1 Matrix Spike 0.25776	24-Dec-17	20:15:07
44	171224M1_44	B7L0064-MSD1 Matrix Spike Dup 0.25959	24-Dec-17	20:26:18
45	171224M1_45	1701845-01 Trip Blank 0.26221	24-Dec-17	20:37:29
46	171224M1_46	1701845-02 Field Blank [REDACTED] 0.26198	24-Dec-17	20:48:40
47	171224M1_47	1701845-03 Equipment Blank [REDACTED] 0.26161	24-Dec-17	20:59:50
48	171224M1_48	1701845-04 [REDACTED] 0.25484	24-Dec-17	21:11:01
49	171224M1_49	1701845-05 [REDACTED] 0.25973	24-Dec-17	21:22:11
50	171224M1_50	1701845-06 [REDACTED] 0.25614	24-Dec-17	21:33:23
51	171224M1_51	IPA	24-Dec-17	21:44:33
52	171224M1_52	ST171224M1-12 PFC CS3 17L1207	24-Dec-17	21:55:44
53	171224M1_53	IPA	24-Dec-17	22:06:54
54	171224M1_54	1701845-07 [REDACTED] 0.25384	24-Dec-17	22:18:05
55	171224M1_55	1701845-08 [REDACTED] 0.2563	24-Dec-17	22:29:16
56	171224M1_56	1701845-09 [REDACTED] 0.2567	24-Dec-17	22:40:26
57	171224M1_57	1701845-10 [REDACTED] 0.25294	24-Dec-17	22:51:37
58	171224M1_58	1701845-11 [REDACTED] 0.2534	24-Dec-17	23:02:48
59	171224M1_59	1701845-12 [REDACTED] 0.25457	24-Dec-17	23:13:59
60	171224M1_60	1701845-13 [REDACTED] 0.25691	24-Dec-17	23:25:09
61	171224M1_61	1701845-14 [REDACTED] 0.25871	24-Dec-17	23:36:20
62	171224M1_62	1701845-15 [REDACTED] 0.25765	24-Dec-17	23:47:31
63	171224M1_63	IPA	24-Dec-17	23:58:42
64	171224M1_64	ST171224M1-13 PFC CS3 17L1207	25-Dec-17	00:09:55

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Last Altered: Tuesday, December 26, 2017 15:01:03 Pacific Standard Time

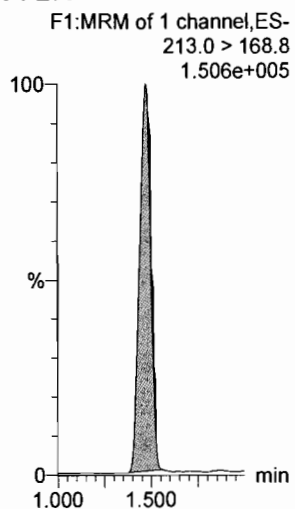
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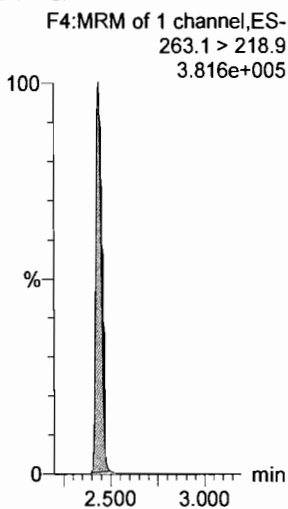
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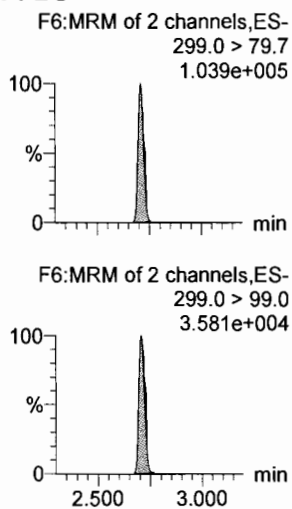
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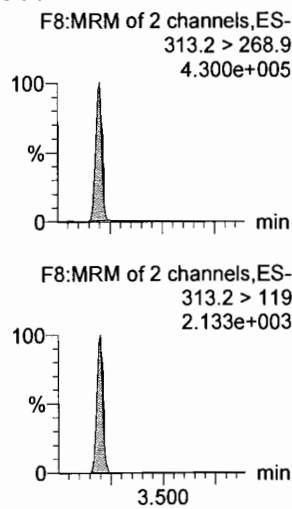
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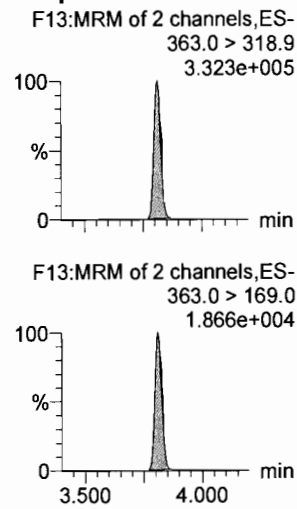
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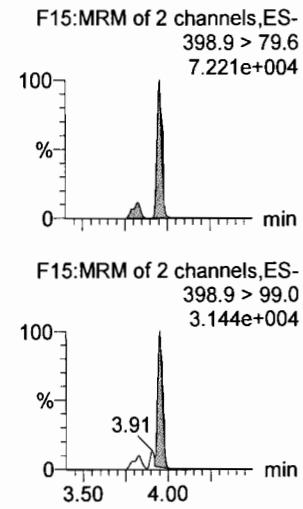
**PFHxA**



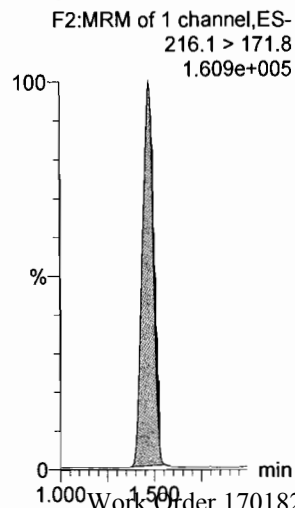
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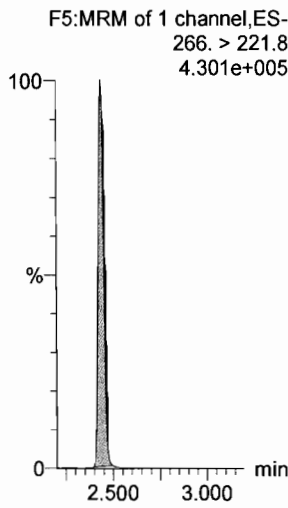
**L-PFHxS**



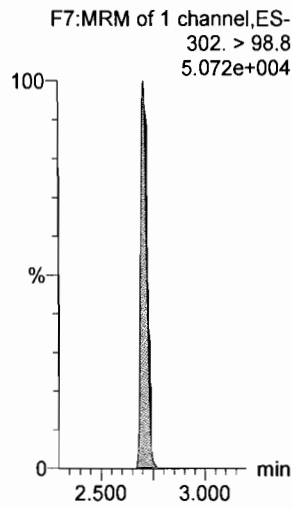
**13C3-PFBA**



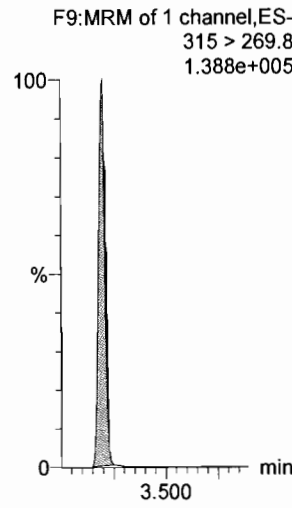
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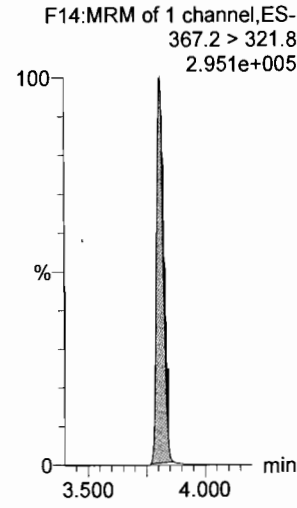
**13C3-PFBS**



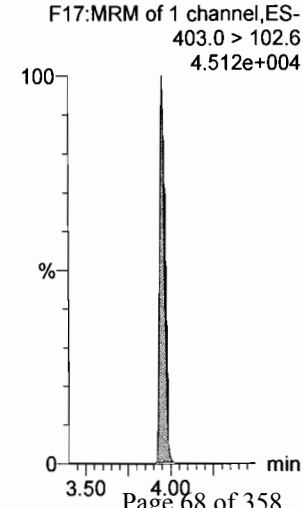
**13C2-PFHxA**



**13C4-PFHpA**



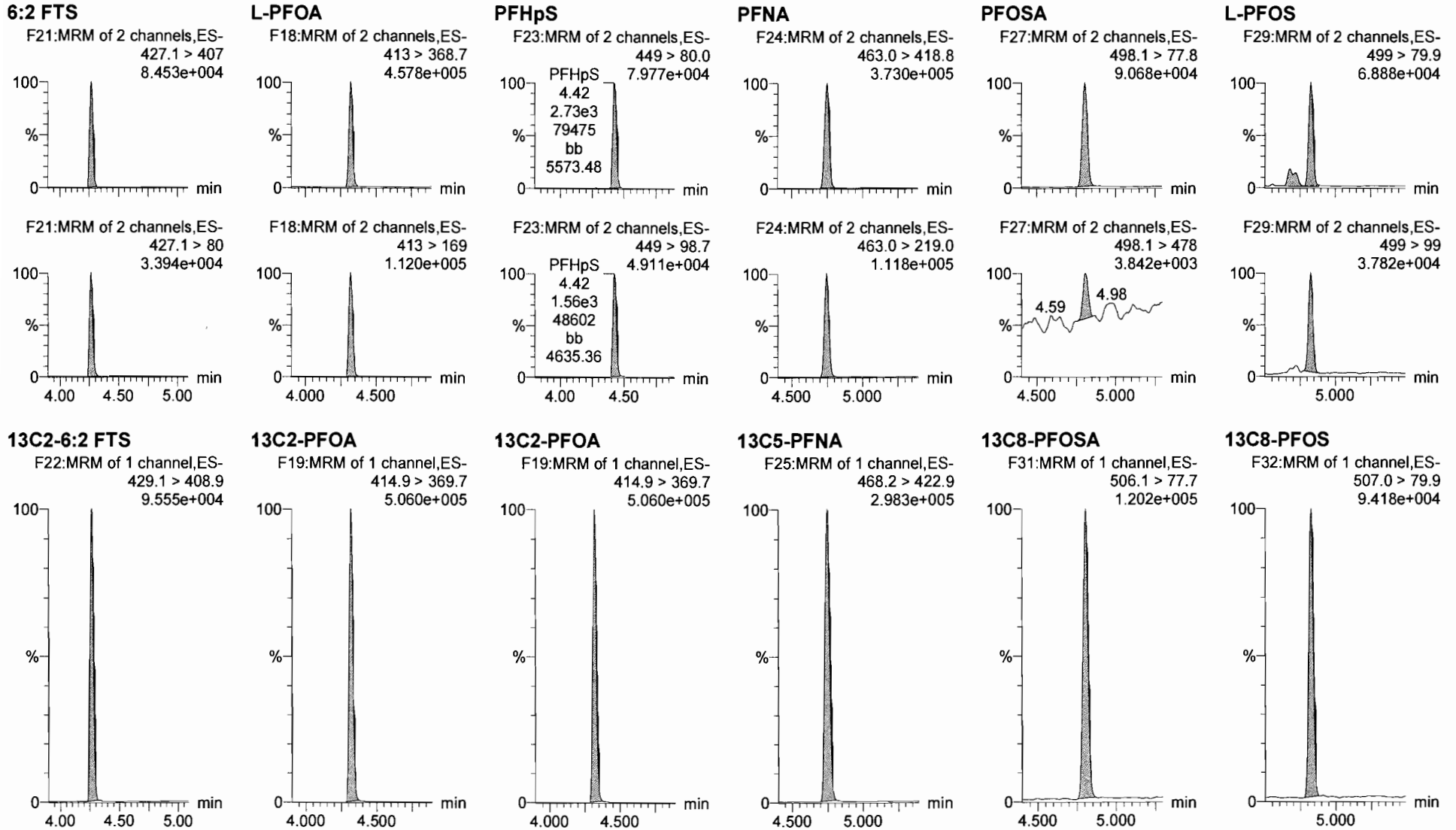
**18O2-PFHxS**



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Printed: Tuesday, December 26, 2017 15:01:48 Pacific Standard Time

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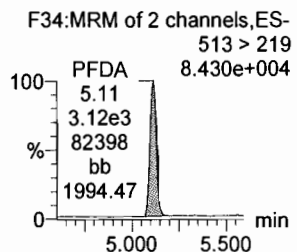
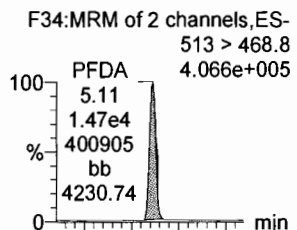


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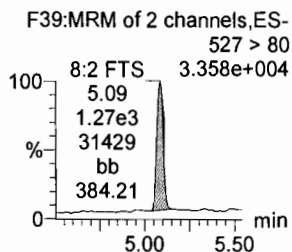
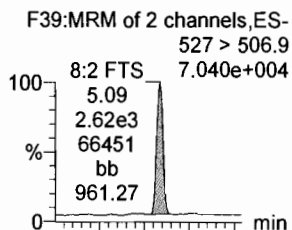
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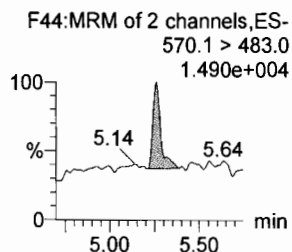
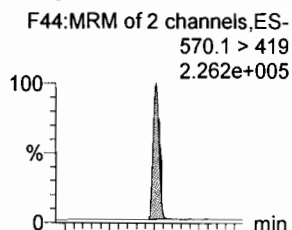
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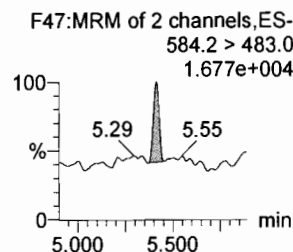
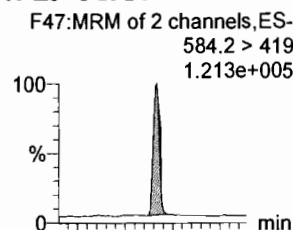
**8:2 FTS**



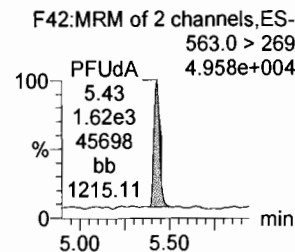
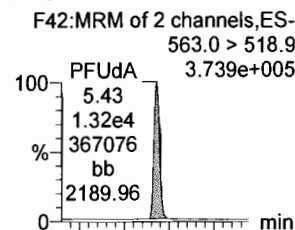
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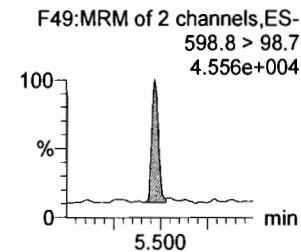
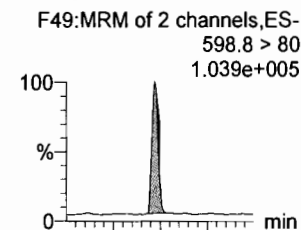
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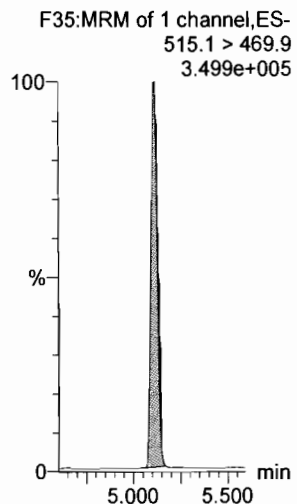
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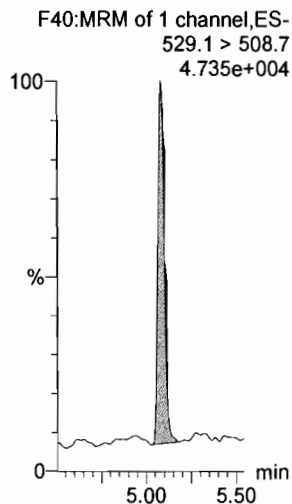
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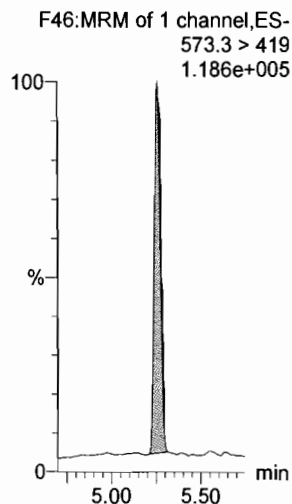
**13C2-PFDA**



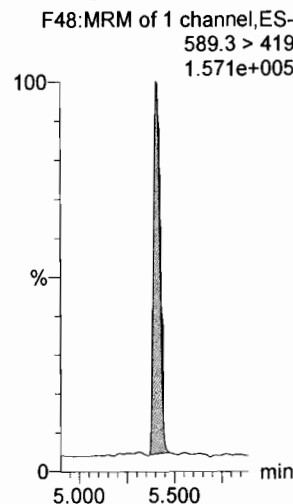
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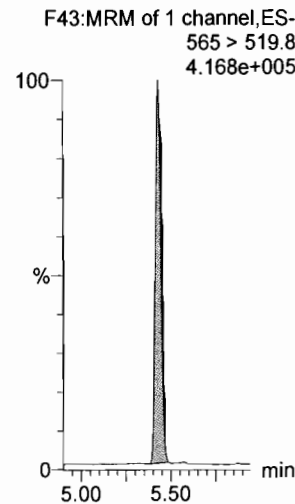
**d3-N-MeFOSAA**



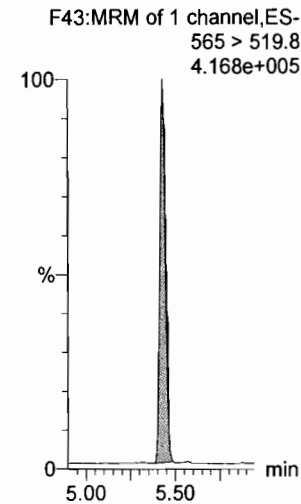
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



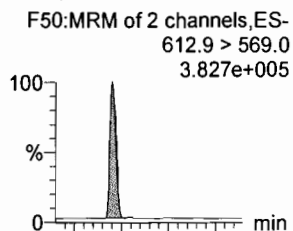
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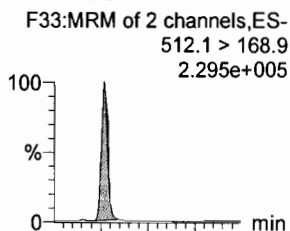
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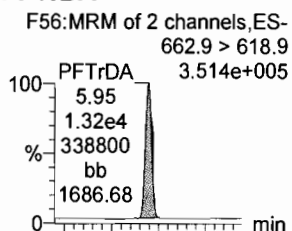
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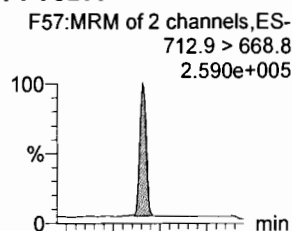
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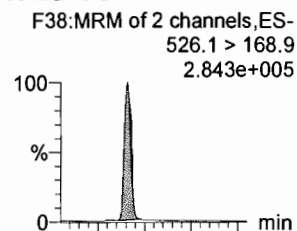
**PFT<sub>r</sub>DA**



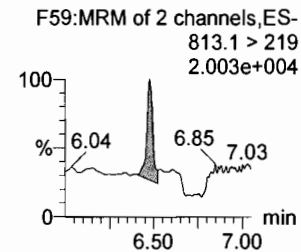
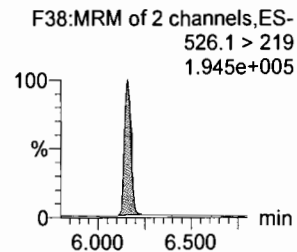
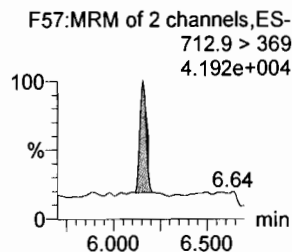
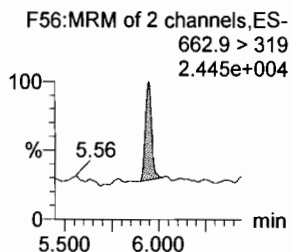
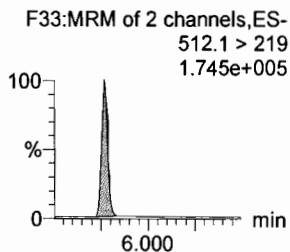
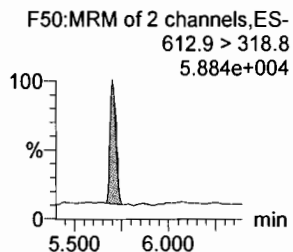
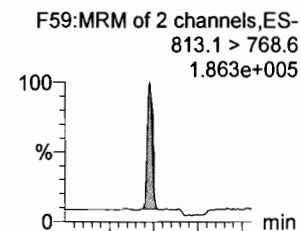
**PFT<sub>e</sub>DA**



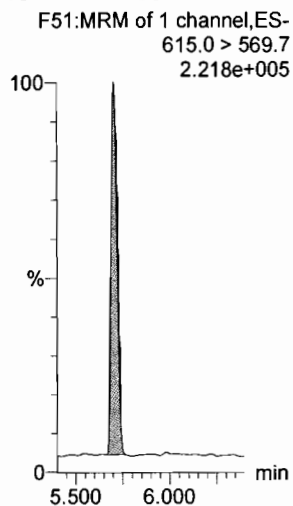
**N-EtFOSA**



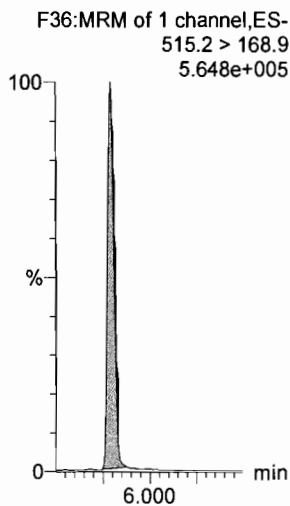
**PFH<sub>x</sub>DA**



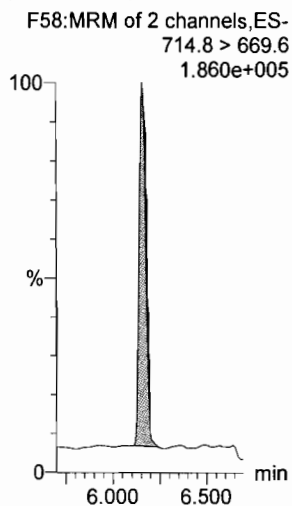
**13C2-PFD<sub>o</sub>A**



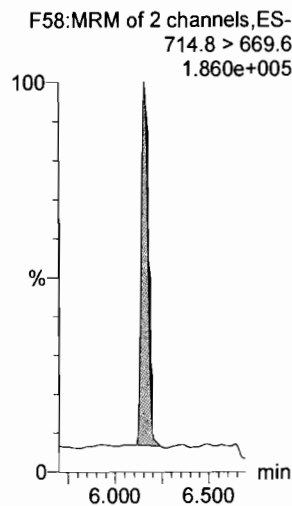
**d3-N-MeFOSA**



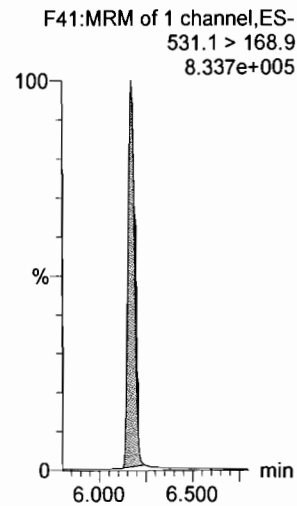
**13C2-PFT<sub>e</sub>DA**



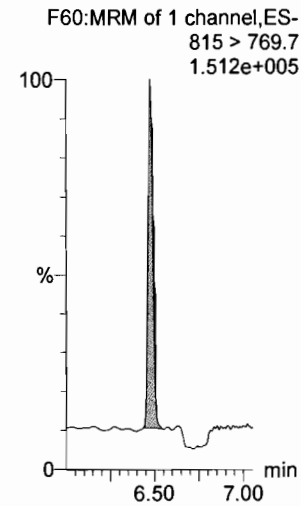
**13C2-PFT<sub>r</sub>DA**



**d5-N-ETFOSA**



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





Dataset: U:\Q4.PRO\results\171224M1\171224M1\_30.qld

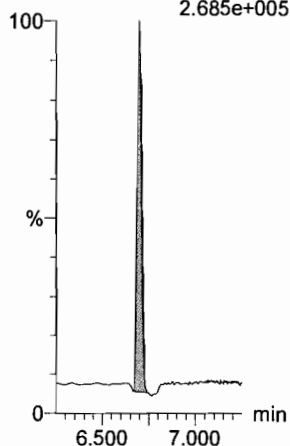
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Printed: Tuesday, December 26, 2017 15:01:48 Pacific Standard Time

Name: 171224M1\_30, Date: 24-Dec-2017, Time: 17:49:48, ID: ST171224M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

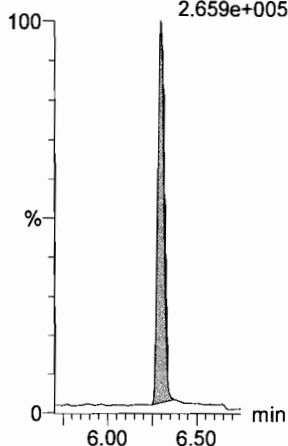
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
2.685e+005



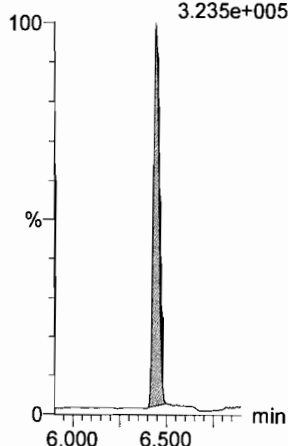
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.659e+005



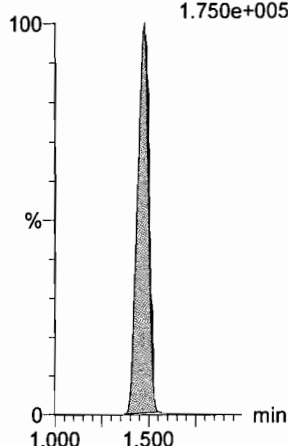
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.235e+005



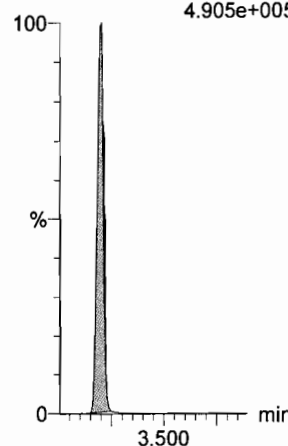
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.750e+005



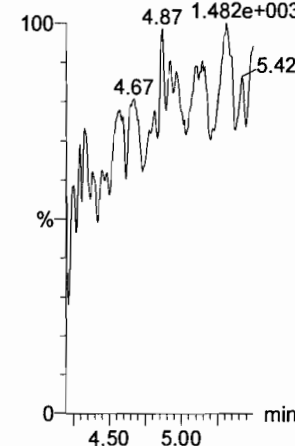
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.905e+005



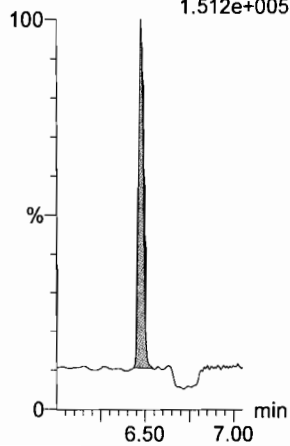
**TCDA**

F28:MRM of 3 channels,ES-  
498.3 > 106.9  
1.482e+003



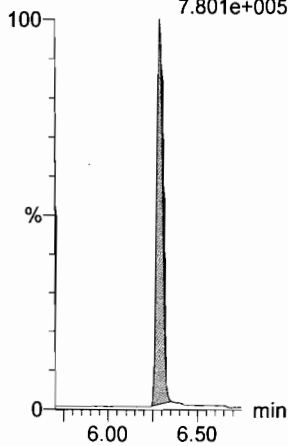
**13C2-PFHxD**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.512e+005



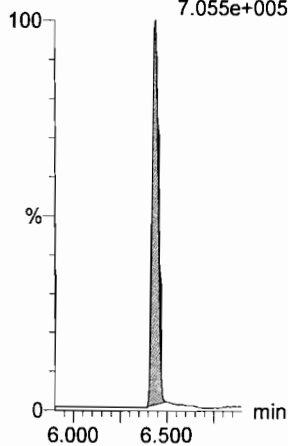
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
7.801e+005



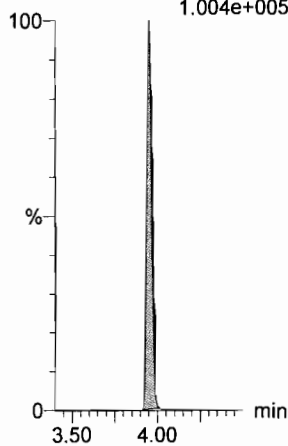
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
7.055e+005



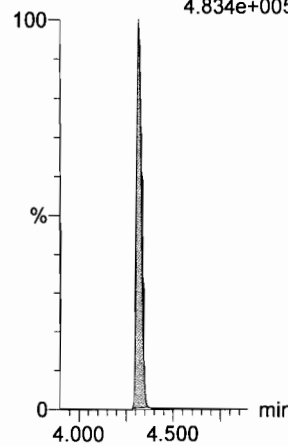
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
1.004e+005



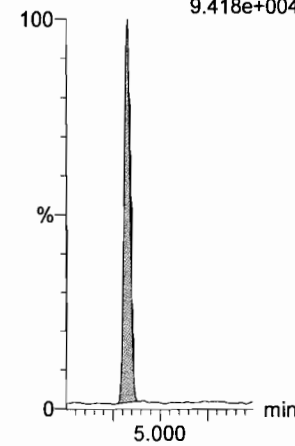
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
4.834e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.418e+004



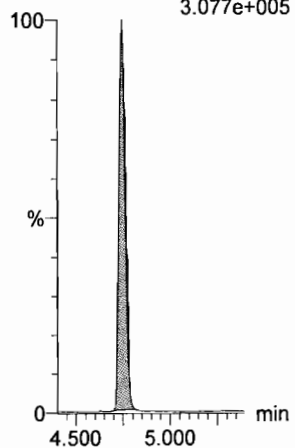
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Last Altered: Tuesday, December 26, 2017 15:01:03 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 15:01:48 Pacific Standard Time

Name: 171224M1\_30, Date: 24-Dec-2017, Time: 17:49:48, ID: ST171224M1-11 PFC CS3 17L1207, Description: PFC CS3 17L1207

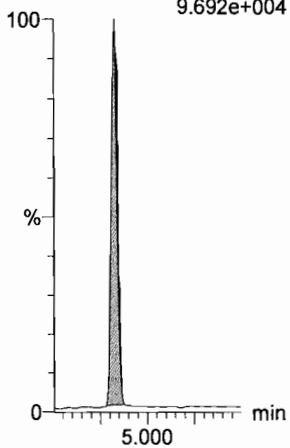
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.077e+005



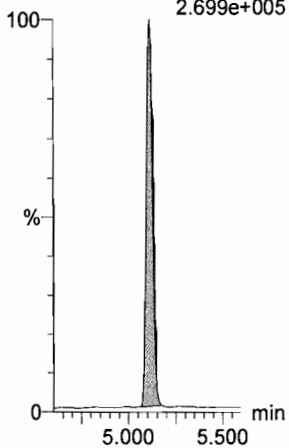
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
9.692e+004



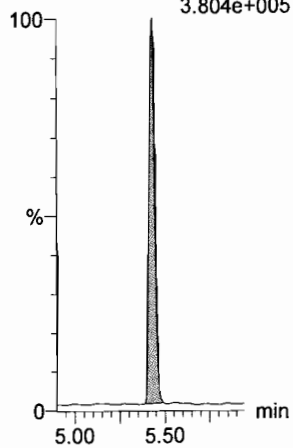
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.699e+005



**13C7-PFUDa**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.804e+005



Dataset: U:\Q4.PRO\results\180103M3\180103M3-IIS AREAS.qld

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Method: U:\Q4.PRO\MethDB\PFAS\_RS-12-29-17.mdb 30 Dec 2017 10:03:31

Calibration: 04 Jan 2018 15:28:14

Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180103M3-1 PFC CS0 17L2608	1.35e4	100.0	NO
2	2 13C5-PFHxA	ST180103M3-1 PFC CS0 17L2608	1.51e4	100.0	NO
3	3 13C3-PFHxS	ST180103M3-1 PFC CS0 17L2608	3.64e3	100.0	NO
4	4 13C8-PFOA	ST180103M3-1 PFC CS0 17L2608	1.33e4	100.0	NO
5	5 13C9-PFNA	ST180103M3-1 PFC CS0 17L2608	1.33e4	100.0	NO
6	6 13C4-PFOS	ST180103M3-1 PFC CS0 17L2608	3.94e3	100.0	NO
7	7 13C6-PFDA	ST180103M3-1 PFC CS0 17L2608	1.12e4	100.0	NO
8	8 13C7-PFUDa	ST180103M3-1 PFC CS0 17L2608	1.24e4	100.0	NO

Name: 180103M3\_2, Date: 04-Jan-2018, Time: 06:33:54, ID: IPA, Description: IPA

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

Name: 180103M3\_3, Date: 04-Jan-2018, Time: 06:45:04, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701827-01 IR03-EB01-113017 0.24852	4.26e3	31.6	YES
2	2 13C5-PFHxA	1701827-01 IR03-EB01-113017 0.24852	5.37e3	35.5	YES
3	3 13C3-PFHxS	1701827-01 IR03-EB01-113017 0.24852	1.45e3	39.8	YES
4	4 13C8-PFOA	1701827-01 IR03-EB01-113017 0.24852	5.35e3	40.1	YES
5	5 13C9-PFNA	1701827-01 IR03-EB01-113017 0.24852	5.13e3	38.5	YES
6	6 13C4-PFOS	1701827-01 IR03-EB01-113017 0.24852	1.47e3	37.4	YES
7	7 13C6-PFDA	1701827-01 IR03-EB01-113017 0.24852	3.31e3	29.4	YES
8	8 13C7-PFUDa	1701827-01 IR03-EB01-113017 0.24852	4.87e3	39.3	YES

Name: 180103M3\_4, Date: 04-Jan-2018, Time: 06:56:15, ID: B7L0092-MS1@40X Matrix Spike 16.49, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0092-MS1@40X Matrix Spike 16.49			NO
2	2 13C5-PFHxA	B7L0092-MS1@40X Matrix Spike 16.49			NO
3	3 13C3-PFHxS	B7L0092-MS1@40X Matrix Spike 16.49			NO
4	4 13C8-PFOA	B7L0092-MS1@40X Matrix Spike 16.49			NO
5	5 13C9-PFNA	B7L0092-MS1@40X Matrix Spike 16.49			NO
6	6 13C4-PFOS	B7L0092-MS1@40X Matrix Spike 16.49			NO
7	7 13C6-PFDA	B7L0092-MS1@40X Matrix Spike 16.49			NO
8	8 13C7-PFUDa	B7L0092-MS1@40X Matrix Spike 16.49			NO

Dataset: U:\Q4.PRO\results\180103M3\180103M3-IIS AREAS.qld

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**Name: 180103M3\_5, Date: 04-Jan-2018, Time: 07:07:26, ID: B7L0092-MSD1@40X Matrix Spike Dup 16.11, Description: Matrix Spike Dup**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0092-MSD1@40X Matrix Spike Dup...			NO
2	2 13C5-PFHxA	B7L0092-MSD1@40X Matrix Spike Dup...			NO
3	3 13C3-PFHxS	B7L0092-MSD1@40X Matrix Spike Dup...			NO
4	4 13C8-PFOA	B7L0092-MSD1@40X Matrix Spike Dup...			NO
5	5 13C9-PFNA	B7L0092-MSD1@40X Matrix Spike Dup...			NO
6	6 13C4-PFOS	B7L0092-MSD1@40X Matrix Spike Dup...			NO
7	7 13C6-PFDA	B7L0092-MSD1@40X Matrix Spike Dup...	6.30e0	56.0	NO
8	8 13C7-PFUdA	B7L0092-MSD1@40X Matrix Spike Dup...			NO

**Name: 180103M3\_6, Date: 04-Jan-2018, Time: 07:18:37, ID: 1701841-01@40X OF-SLG01-1217 17.61, Description: OF-SLG01-1217**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701841-01@40X OF-SLG01-1217 17.61			NO
2	2 13C5-PFHxA	1701841-01@40X OF-SLG01-1217 17.61			NO
3	3 13C3-PFHxS	1701841-01@40X OF-SLG01-1217 17.61			NO
4	4 13C8-PFOA	1701841-01@40X OF-SLG01-1217 17.61			NO
5	5 13C9-PFNA	1701841-01@40X OF-SLG01-1217 17.61			NO
6	6 13C4-PFOS	1701841-01@40X OF-SLG01-1217 17.61			NO
7	7 13C6-PFDA	1701841-01@40X OF-SLG01-1217 17.61			NO
8	8 13C7-PFUdA	1701841-01@40X OF-SLG01-1217 17.61			NO

**Name: 180103M3\_7, Date: 04-Jan-2018, Time: 07:29:47, ID: 1701841-02@40X OF-SLG02-1217 10.1, Description: OF-SLG02-1217**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701841-02@40X OF-SLG02-1217 10.1			NO
2	2 13C5-PFHxA	1701841-02@40X OF-SLG02-1217 10.1			NO
3	3 13C3-PFHxS	1701841-02@40X OF-SLG02-1217 10.1			NO
4	4 13C8-PFOA	1701841-02@40X OF-SLG02-1217 10.1			NO
5	5 13C9-PFNA	1701841-02@40X OF-SLG02-1217 10.1			NO
6	6 13C4-PFOS	1701841-02@40X OF-SLG02-1217 10.1			NO
7	7 13C6-PFDA	1701841-02@40X OF-SLG02-1217 10.1			NO
8	8 13C7-PFUdA	1701841-02@40X OF-SLG02-1217 10.1			NO

**Name: 180103M3\_8, Date: 04-Jan-2018, Time: 07:40:58, ID: 1701841-03@40X OF-SLG02P-1217 6.48, Description: OF-SLG02P-1217**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701841-03@40X OF-SLG02P-1217 6....			NO
2	2 13C5-PFHxA	1701841-03@40X OF-SLG02P-1217 6....			NO
3	3 13C3-PFHxS	1701841-03@40X OF-SLG02P-1217 6....			NO
4	4 13C8-PFOA	1701841-03@40X OF-SLG02P-1217 6....			NO
5	5 13C9-PFNA	1701841-03@40X OF-SLG02P-1217 6....			NO
6	6 13C4-PFOS	1701841-03@40X OF-SLG02P-1217 6....			NO
7	7 13C6-PFDA	1701841-03@40X OF-SLG02P-1217 6....			NO
8	8 13C7-PFUdA	1701841-03@40X OF-SLG02P-1217 6....			NO

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**Name: 180103M3\_9, Date: 04-Jan-2018, Time: 07:52:08, ID: 1701841-04@40X OF-SLG03-1217 11.57, Description: OF-SLG03-1217**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701841-04@40X OF-SLG03-1217 11.57			NO
2	2 13C5-PFHxA	1701841-04@40X OF-SLG03-1217 11.57			NO
3	3 13C3-PFHxS	1701841-04@40X OF-SLG03-1217 11.57			NO
4	4 13C8-PFOA	1701841-04@40X OF-SLG03-1217 11.57			NO
5	5 13C9-PFNA	1701841-04@40X OF-SLG03-1217 11.57			NO
6	6 13C4-PFOS	1701841-04@40X OF-SLG03-1217 11.57			NO
7	7 13C6-PFDA	1701841-04@40X OF-SLG03-1217 11.57			NO
8	8 13C7-PFUDa	1701841-04@40X OF-SLG03-1217 11.57			NO

**Name: 180103M3\_10, Date: 04-Jan-2018, Time: 08:03:19, ID: 1701841-05@40X OF-SLG04-1217 5.07, Description: OF-SLG04-1217**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701841-05@40X OF-SLG04-1217 5.07			NO
2	2 13C5-PFHxA	1701841-05@40X OF-SLG04-1217 5.07			NO
3	3 13C3-PFHxS	1701841-05@40X OF-SLG04-1217 5.07			NO
4	4 13C8-PFOA	1701841-05@40X OF-SLG04-1217 5.07			NO
5	5 13C9-PFNA	1701841-05@40X OF-SLG04-1217 5.07			NO
6	6 13C4-PFOS	1701841-05@40X OF-SLG04-1217 5.07			NO
7	7 13C6-PFDA	1701841-05@40X OF-SLG04-1217 5.07			NO
8	8 13C7-PFUDa	1701841-05@40X OF-SLG04-1217 5.07			NO

**Name: 180103M3\_11, Date: 04-Jan-2018, Time: 08:14:30, ID: 1701899-01 WT1712051145JM 0.25897, Description: WT1712051145JM**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-01 WT1712051145JM 0.25897	4.12e3	30.6	YES
2	2 13C5-PFHxA	1701899-01 WT1712051145JM 0.25897	4.81e3	31.7	YES
3	3 13C3-PFHxS	1701899-01 WT1712051145JM 0.25897	1.31e3	36.0	YES
4	4 13C8-PFOA	1701899-01 WT1712051145JM 0.25897	4.24e3	31.8	YES
5	5 13C9-PFNA	1701899-01 WT1712051145JM 0.25897	5.01e3	37.6	YES
6	6 13C4-PFOS	1701899-01 WT1712051145JM 0.25897	1.09e3	27.7	YES
7	7 13C6-PFDA	1701899-01 WT1712051145JM 0.25897	3.46e3	30.7	YES
8	8 13C7-PFUDa	1701899-01 WT1712051145JM 0.25897	4.48e3	36.2	YES

**Name: 180103M3\_12, Date: 04-Jan-2018, Time: 08:25:40, ID: 1701899-02 WT1712051200JM 0.23198, Description: WT1712051200JM**

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-02 WT1712051200JM 0.23198	4.01e3	29.8	YES
2	2 13C5-PFHxA	1701899-02 WT1712051200JM 0.23198	4.64e3	30.6	YES
3	3 13C3-PFHxS	1701899-02 WT1712051200JM 0.23198	1.26e3	34.7	YES
4	4 13C8-PFOA	1701899-02 WT1712051200JM 0.23198	4.47e3	33.5	YES
5	5 13C9-PFNA	1701899-02 WT1712051200JM 0.23198	4.90e3	36.7	YES
6	6 13C4-PFOS	1701899-02 WT1712051200JM 0.23198	9.38e2	23.8	YES
7	7 13C6-PFDA	1701899-02 WT1712051200JM 0.23198	2.83e3	25.2	YES
8	8 13C7-PFUDa	1701899-02 WT1712051200JM 0.23198	4.14e3	33.4	YES

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**Name: 180103M3\_13, Date: 04-Jan-2018, Time: 08:36:51, ID: 1701899-03 WR1712051300JM 0.26153, Description: WR1712051300JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-03 WR1712051300JM 0.26153	4.82e3	35.8	YES
2	2 13C5-PFHxA	1701899-03 WR1712051300JM 0.26153	5.23e3	34.6	YES
3	3 13C3-PFHxS	1701899-03 WR1712051300JM 0.26153	1.35e3	37.0	YES
4	4 13C8-PFOA	1701899-03 WR1712051300JM 0.26153	4.60e3	34.5	YES
5	5 13C9-PFNA	1701899-03 WR1712051300JM 0.26153	5.07e3	38.1	YES
6	6 13C4-PFOS	1701899-03 WR1712051300JM 0.26153	1.45e3	36.6	YES
7	7 13C6-PFDA	1701899-03 WR1712051300JM 0.26153	3.40e3	30.3	YES
8	8 13C7-PFUdA	1701899-03 WR1712051300JM 0.26153	4.42e3	35.7	YES

**Name: 180103M3\_14, Date: 04-Jan-2018, Time: 08:48:02, ID: 1701899-04 WT1712051315JM 0.26777, Description: WT1712051315JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-04 WT1712051315JM 0.26777	4.29e3	31.8	YES
2	2 13C5-PFHxA	1701899-04 WT1712051315JM 0.26777	5.01e3	33.1	YES
3	3 13C3-PFHxS	1701899-04 WT1712051315JM 0.26777	1.37e3	37.6	YES
4	4 13C8-PFOA	1701899-04 WT1712051315JM 0.26777	4.48e3	33.6	YES
5	5 13C9-PFNA	1701899-04 WT1712051315JM 0.26777	4.91e3	36.9	YES
6	6 13C4-PFOS	1701899-04 WT1712051315JM 0.26777	1.06e3	26.8	YES
7	7 13C6-PFDA	1701899-04 WT1712051315JM 0.26777	3.19e3	28.4	YES
8	8 13C7-PFUdA	1701899-04 WT1712051315JM 0.26777	4.61e3	37.2	YES

**Name: 180103M3\_15, Date: 04-Jan-2018, Time: 08:59:13, ID: IPA, Description: IPA**

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

**Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180103M3-2 PFC CS3 17L2611	1.31e4	96.8	NO
2	2 13C5-PFHxA	ST180103M3-2 PFC CS3 17L2611	1.63e4	107.4	NO
3	3 13C3-PFHxS	ST180103M3-2 PFC CS3 17L2611	4.10e3	112.5	NO
4	4 13C8-PFOA	ST180103M3-2 PFC CS3 17L2611	1.42e4	106.5	NO
5	5 13C9-PFNA	ST180103M3-2 PFC CS3 17L2611	1.57e4	117.9	NO
6	6 13C4-PFOS	ST180103M3-2 PFC CS3 17L2611	4.10e3	103.9	NO
7	7 13C6-PFDA	ST180103M3-2 PFC CS3 17L2611	8.39e3	74.6	NO
8	8 13C7-PFUdA	ST180103M3-2 PFC CS3 17L2611	1.56e4	125.7	NO

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Name: 180103M3\_17, Date: 04-Jan-2018, Time: 09:21:34, ID: IPA, Description: IPA

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

Name: 180103M3\_18, Date: 04-Jan-2018, Time: 09:32:45, ID: 1701899-05 WT1712051335JM 0.26758, Description: WT1712051335JM

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-05 WT1712051335JM 0.26758	3.97e3	29.5	YES
2	2 13C5-PFHxA	1701899-05 WT1712051335JM 0.26758	4.68e3	30.9	YES
3	3 13C3-PFHxS	1701899-05 WT1712051335JM 0.26758	1.25e3	34.3	YES
4	4 13C8-PFOA	1701899-05 WT1712051335JM 0.26758	4.29e3	32.2	YES
5	5 13C9-PFNA	1701899-05 WT1712051335JM 0.26758	3.90e3	29.3	YES
6	6 13C4-PFOS	1701899-05 WT1712051335JM 0.26758	1.29e3	32.8	YES
7	7 13C6-PFDA	1701899-05 WT1712051335JM 0.26758	3.58e3	31.9	YES
8	8 13C7-PFUdA	1701899-05 WT1712051335JM 0.26758	4.14e3	33.4	YES

Name: 180103M3\_19, Date: 04-Jan-2018, Time: 09:43:55, ID: 1701899-06 WT1712051400JM 0.26538, Description: WT1712051400JM

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-06 WT1712051400JM 0.26538	3.99e3	29.6	YES
2	2 13C5-PFHxA	1701899-06 WT1712051400JM 0.26538	4.71e3	31.1	YES
3	3 13C3-PFHxS	1701899-06 WT1712051400JM 0.26538	1.08e3	29.6	YES
4	4 13C8-PFOA	1701899-06 WT1712051400JM 0.26538	4.47e3	33.6	YES
5	5 13C9-PFNA	1701899-06 WT1712051400JM 0.26538	4.59e3	34.4	YES
6	6 13C4-PFOS	1701899-06 WT1712051400JM 0.26538	1.36e3	34.5	YES
7	7 13C6-PFDA	1701899-06 WT1712051400JM 0.26538	2.70e3	24.0	YES
8	8 13C7-PFUdA	1701899-06 WT1712051400JM 0.26538	3.68e3	29.7	YES

Name: 180103M3\_20, Date: 04-Jan-2018, Time: 09:55:06, ID: 1701899-07 WT1712051410JM 0.25127, Description: WT1712051410JM

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-07 WT1712051410JM 0.25127	4.14e3	30.7	YES
2	2 13C5-PFHxA	1701899-07 WT1712051410JM 0.25127	5.05e3	33.3	YES
3	3 13C3-PFHxS	1701899-07 WT1712051410JM 0.25127	1.40e3	38.4	YES
4	4 13C8-PFOA	1701899-07 WT1712051410JM 0.25127	4.71e3	35.4	YES
5	5 13C9-PFNA	1701899-07 WT1712051410JM 0.25127	5.12e3	38.4	YES
6	6 13C4-PFOS	1701899-07 WT1712051410JM 0.25127	1.15e3	29.2	YES
7	7 13C6-PFDA	1701899-07 WT1712051410JM 0.25127	3.36e3	29.9	YES
8	8 13C7-PFUdA	1701899-07 WT1712051410JM 0.25127	4.36e3	35.2	YES

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**Name: 180103M3\_21, Date: 04-Jan-2018, Time: 10:06:17, ID: 1701899-08 WT1712051425JM 0.26218, Description: WT1712051425JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-08 WT1712051425JM 0.26218	4.08e3	30.3	YES
2	2 13C5-PFHxA	1701899-08 WT1712051425JM 0.26218	5.22e3	34.5	YES
3	3 13C3-PFHxS	1701899-08 WT1712051425JM 0.26218	1.25e3	34.3	YES
4	4 13C8-PFOA	1701899-08 WT1712051425JM 0.26218	4.60e3	34.5	YES
5	5 13C9-PFNA	1701899-08 WT1712051425JM 0.26218	4.49e3	33.7	YES
6	6 13C4-PFOS	1701899-08 WT1712051425JM 0.26218	1.31e3	33.3	YES
7	7 13C6-PFDA	1701899-08 WT1712051425JM 0.26218	3.79e3	33.7	YES
8	8 13C7-PFUDa	1701899-08 WT1712051425JM 0.26218	4.13e3	33.4	YES

**Name: 180103M3\_22, Date: 04-Jan-2018, Time: 10:17:37, ID: 1701899-09 WT1712051440JM 0.26087, Description: WT1712051440JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-09 WT1712051440JM 0.26087	4.72e3	35.0	YES
2	2 13C5-PFHxA	1701899-09 WT1712051440JM 0.26087	5.63e3	37.2	YES
3	3 13C3-PFHxS	1701899-09 WT1712051440JM 0.26087	1.41e3	38.8	YES
4	4 13C8-PFOA	1701899-09 WT1712051440JM 0.26087	4.72e3	35.5	YES
5	5 13C9-PFNA	1701899-09 WT1712051440JM 0.26087	4.84e3	36.3	YES
6	6 13C4-PFOS	1701899-09 WT1712051440JM 0.26087	1.40e3	35.6	YES
7	7 13C6-PFDA	1701899-09 WT1712051440JM 0.26087	2.81e3	25.0	YES
8	8 13C7-PFUDa	1701899-09 WT1712051440JM 0.26087	4.49e3	36.2	YES

**Name: 180103M3\_23, Date: 04-Jan-2018, Time: 10:28:55, ID: 1701899-10 WT1712051500JM 0.25605, Description: WT1712051500JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-10 WT1712051500JM 0.25605	4.12e3	30.6	YES
2	2 13C5-PFHxA	1701899-10 WT1712051500JM 0.25605	4.88e3	32.2	YES
3	3 13C3-PFHxS	1701899-10 WT1712051500JM 0.25605	1.32e3	36.4	YES
4	4 13C8-PFOA	1701899-10 WT1712051500JM 0.25605	4.92e3	36.9	YES
5	5 13C9-PFNA	1701899-10 WT1712051500JM 0.25605	4.30e3	32.3	YES
6	6 13C4-PFOS	1701899-10 WT1712051500JM 0.25605	1.31e3	33.1	YES
7	7 13C6-PFDA	1701899-10 WT1712051500JM 0.25605	3.13e3	27.8	YES
8	8 13C7-PFUDa	1701899-10 WT1712051500JM 0.25605	4.10e3	33.1	YES

**Name: 180103M3\_24, Date: 04-Jan-2018, Time: 10:40:06, ID: 1701899-11 WT1712051510JM 0.26385, Description: WT1712051510JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-11 WT1712051510JM 0.26385	4.44e3	32.9	YES
2	2 13C5-PFHxA	1701899-11 WT1712051510JM 0.26385	5.02e3	33.1	YES
3	3 13C3-PFHxS	1701899-11 WT1712051510JM 0.26385	1.34e3	36.7	YES
4	4 13C8-PFOA	1701899-11 WT1712051510JM 0.26385	5.33e3	40.0	YES
5	5 13C9-PFNA	1701899-11 WT1712051510JM 0.26385	5.03e3	37.7	YES
6	6 13C4-PFOS	1701899-11 WT1712051510JM 0.26385	1.28e3	32.5	YES
7	7 13C6-PFDA	1701899-11 WT1712051510JM 0.26385	3.14e3	27.9	YES
8	8 13C7-PFUDa	1701899-11 WT1712051510JM 0.26385	5.28e3	42.7	YES



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**Name: 180103M3\_25, Date: 04-Jan-2018, Time: 10:51:16, ID: 1701899-12 WT1712051530JM 0.25998, Description: WT1712051530JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-12 WT1712051530JM 0.25998	4.03e3	29.9	YES
2	2 13C5-PFHxA	1701899-12 WT1712051530JM 0.25998	5.11e3	33.8	YES
3	3 13C3-PFHxS	1701899-12 WT1712051530JM 0.25998	1.29e3	35.4	YES
4	4 13C8-PFOA	1701899-12 WT1712051530JM 0.25998	4.49e3	33.7	YES
5	5 13C9-PFNA	1701899-12 WT1712051530JM 0.25998	4.77e3	35.8	YES
6	6 13C4-PFOS	1701899-12 WT1712051530JM 0.25998	1.17e3	29.8	YES
7	7 13C6-PFDA	1701899-12 WT1712051530JM 0.25998	2.67e3	23.7	YES
8	8 13C7-PFUDa	1701899-12 WT1712051530JM 0.25998	4.14e3	33.4	YES

**Name: 180103M3\_26, Date: 04-Jan-2018, Time: 11:02:27, ID: 1701899-13 WR1712051600JM 0.25784, Description: WR1712051600JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-13 WR1712051600JM 0.25784			NO
2	2 13C5-PFHxA	1701899-13 WR1712051600JM 0.25784			NO
3	3 13C3-PFHxS	1701899-13 WR1712051600JM 0.25784			NO
4	4 13C8-PFOA	1701899-13 WR1712051600JM 0.25784			NO
5	5 13C9-PFNA	1701899-13 WR1712051600JM 0.25784			NO
6	6 13C4-PFOS	1701899-13 WR1712051600JM 0.25784			NO
7	7 13C6-PFDA	1701899-13 WR1712051600JM 0.25784			NO
8	8 13C7-PFUDa	1701899-13 WR1712051600JM 0.25784			NO

**Name: 180103M3\_27, Date: 04-Jan-2018, Time: 11:13:37, ID: 1701899-14 WT1712051620JM 0.26501, Description: WT1712051620JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-14 WT1712051620JM 0.26501	1.26e4	93.2	NO
2	2 13C5-PFHxA	1701899-14 WT1712051620JM 0.26501	1.47e4	97.1	NO
3	3 13C3-PFHxS	1701899-14 WT1712051620JM 0.26501	3.69e3	101.4	NO
4	4 13C8-PFOA	1701899-14 WT1712051620JM 0.26501	1.37e4	102.7	NO
5	5 13C9-PFNA	1701899-14 WT1712051620JM 0.26501	1.49e4	111.6	NO
6	6 13C4-PFOS	1701899-14 WT1712051620JM 0.26501	3.22e3	81.7	NO
7	7 13C6-PFDA	1701899-14 WT1712051620JM 0.26501	8.67e3	77.1	NO
8	8 13C7-PFUDa	1701899-14 WT1712051620JM 0.26501	7.59e3	61.3	NO

**Name: 180103M3\_28, Date: 04-Jan-2018, Time: 11:24:48, ID: B7L0167-BS1 OPR 0.25, Description: OPR**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0167-BS1 OPR 0.25	4.07e3	30.2	YES
2	2 13C5-PFHxA	B7L0167-BS1 OPR 0.25	4.47e3	29.5	YES
3	3 13C3-PFHxS	B7L0167-BS1 OPR 0.25	1.16e3	31.9	YES
4	4 13C8-PFOA	B7L0167-BS1 OPR 0.25	4.37e3	32.8	YES
5	5 13C9-PFNA	B7L0167-BS1 OPR 0.25	3.66e3	27.4	YES
6	6 13C4-PFOS	B7L0167-BS1 OPR 0.25	1.45e3	36.7	YES
7	7 13C6-PFDA	B7L0167-BS1 OPR 0.25	2.84e3	25.3	YES
8	8 13C7-PFUDa	B7L0167-BS1 OPR 0.25	3.95e3	31.9	YES

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**Name: 180103M3\_29, Date: 04-Jan-2018, Time: 11:35:58, ID: IPA, Description: IPA**

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

**Name: 180103M3\_30, Date: 04-Jan-2018, Time: 11:47:10, ID: B7L0167-BLK1 Method Blank 0.25, Description: Method Blank**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0167-BLK1 Method Blank 0.25	3.51e3	26.1	YES
2	2 13C5-PFHxA	B7L0167-BLK1 Method Blank 0.25	4.36e3	28.8	YES
3	3 13C3-PFHxS	B7L0167-BLK1 Method Blank 0.25	9.98e2	27.4	YES
4	4 13C8-PFOA	B7L0167-BLK1 Method Blank 0.25	3.45e3	25.9	YES
5	5 13C9-PFNA	B7L0167-BLK1 Method Blank 0.25	3.73e3	28.0	YES
6	6 13C4-PFOS	B7L0167-BLK1 Method Blank 0.25	1.19e3	30.1	YES
7	7 13C6-PFDA	B7L0167-BLK1 Method Blank 0.25	2.96e3	26.3	YES
8	8 13C7-PFUdA	B7L0167-BLK1 Method Blank 0.25	3.76e3	30.4	YES

**Name: 180103M3\_31, Date: 04-Jan-2018, Time: 11:58:20, ID: IPA, Description: IPA**

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

**Name: 180103M3\_32, Date: 04-Jan-2018, Time: 12:09:31, ID: ST180103M3-3 PFC CS3 17L2611, Description: PFC CS3 17L2611**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180103M3-3 PFC CS3 17L2611	1.39e4	103.5	NO
2	2 13C5-PFHxA	ST180103M3-3 PFC CS3 17L2611	1.62e4	107.1	NO
3	3 13C3-PFHxS	ST180103M3-3 PFC CS3 17L2611	3.99e3	109.4	NO
4	4 13C8-PFOA	ST180103M3-3 PFC CS3 17L2611	1.24e4	93.2	NO
5	5 13C9-PFNA	ST180103M3-3 PFC CS3 17L2611	1.23e4	92.3	NO
6	6 13C4-PFOS	ST180103M3-3 PFC CS3 17L2611	3.83e3	97.1	NO
7	7 13C6-PFDA	ST180103M3-3 PFC CS3 17L2611	9.07e3	80.7	NO
8	8 13C7-PFUdA	ST180103M3-3 PFC CS3 17L2611	1.07e4	86.7	NO

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**Name: 180103M3\_33, Date: 04-Jan-2018, Time: 12:20:42, ID: IPA, Description: IPA**

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

**Name: 180103M3\_34, Date: 04-Jan-2018, Time: 12:31:52, ID: 1701899-15 WT1712051640JM 0.25701, Description: WT1712051640JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-15 WT1712051640JM 0.25701	4.00e3	29.7	YES
2	2 13C5-PFHxA	1701899-15 WT1712051640JM 0.25701	4.82e3	31.9	YES
3	3 13C3-PFHxS	1701899-15 WT1712051640JM 0.25701	1.38e3	37.9	YES
4	4 13C8-PFOA	1701899-15 WT1712051640JM 0.25701	4.67e3	35.1	YES
5	5 13C9-PFNA	1701899-15 WT1712051640JM 0.25701	4.74e3	35.6	YES
6	6 13C4-PFOS	1701899-15 WT1712051640JM 0.25701	1.31e3	33.3	YES
7	7 13C6-PFDA	1701899-15 WT1712051640JM 0.25701	3.41e3	30.3	YES
8	8 13C7-PFUdA	1701899-15 WT1712051640JM 0.25701	3.96e3	32.0	YES

**Name: 180103M3\_35, Date: 04-Jan-2018, Time: 12:43:03, ID: 1701899-16 WT1712051700JM 0.25912, Description: WT1712051700JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-16 WT1712051700JM 0.25912	4.00e3	29.7	YES
2	2 13C5-PFHxA	1701899-16 WT1712051700JM 0.25912	4.49e3	29.7	YES
3	3 13C3-PFHxS	1701899-16 WT1712051700JM 0.25912	1.18e3	32.4	YES
4	4 13C8-PFOA	1701899-16 WT1712051700JM 0.25912	4.74e3	35.6	YES
5	5 13C9-PFNA	1701899-16 WT1712051700JM 0.25912	4.30e3	32.3	YES
6	6 13C4-PFOS	1701899-16 WT1712051700JM 0.25912	1.27e3	32.1	YES
7	7 13C6-PFDA	1701899-16 WT1712051700JM 0.25912	2.77e3	24.7	YES
8	8 13C7-PFUdA	1701899-16 WT1712051700JM 0.25912	4.95e3	40.0	YES

**Name: 180103M3\_36, Date: 04-Jan-2018, Time: 12:54:14, ID: 1701899-17 WT1712051735JM 0.24772, Description: WT1712051735JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-17 WT1712051735JM 0.24772	3.75e3	27.8	YES
2	2 13C5-PFHxA	1701899-17 WT1712051735JM 0.24772	4.67e3	30.8	YES
3	3 13C3-PFHxS	1701899-17 WT1712051735JM 0.24772	1.35e3	37.1	YES
4	4 13C8-PFOA	1701899-17 WT1712051735JM 0.24772	5.03e3	37.8	YES
5	5 13C9-PFNA	1701899-17 WT1712051735JM 0.24772	3.40e3	25.5	YES
6	6 13C4-PFOS	1701899-17 WT1712051735JM 0.24772	1.38e3	35.0	YES
7	7 13C6-PFDA	1701899-17 WT1712051735JM 0.24772	2.76e3	24.5	YES
8	8 13C7-PFUdA	1701899-17 WT1712051735JM 0.24772	4.17e3	33.7	YES

Dataset: U:\Q4.PRO\results\180103M3\180103M3-IIS AREAS.qld

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**Name: 180103M3\_37, Date: 04-Jan-2018, Time: 13:05:24, ID: 1701899-18 WR1712060820JM 0.25514, Description: WR1712060820JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-18 WR1712060820JM 0.25514	4.17e3	31.0	YES
2	2 13C5-PFHxA	1701899-18 WR1712060820JM 0.25514	5.09e3	33.6	YES
3	3 13C3-PFHxS	1701899-18 WR1712060820JM 0.25514	1.46e3	40.1	YES
4	4 13C8-PFOA	1701899-18 WR1712060820JM 0.25514	4.04e3	30.3	YES
5	5 13C9-PFNA	1701899-18 WR1712060820JM 0.25514	5.07e3	38.1	YES
6	6 13C4-PFOS	1701899-18 WR1712060820JM 0.25514	1.18e3	29.9	YES
7	7 13C6-PFDA	1701899-18 WR1712060820JM 0.25514	3.85e3	34.3	YES
8	8 13C7-PFUDa	1701899-18 WR1712060820JM 0.25514	3.50e3	28.3	YES

**Name: 180103M3\_38, Date: 04-Jan-2018, Time: 13:19:19, ID: 1701899-19 WR1712060825JM 0.25916, Description: WR1712060825JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-19 WR1712060825JM 0.25916	4.40e3	32.7	YES
2	2 13C5-PFHxA	1701899-19 WR1712060825JM 0.25916	4.97e3	32.8	YES
3	3 13C3-PFHxS	1701899-19 WR1712060825JM 0.25916	1.56e3	42.7	YES
4	4 13C8-PFOA	1701899-19 WR1712060825JM 0.25916	5.12e3	38.4	YES
5	5 13C9-PFNA	1701899-19 WR1712060825JM 0.25916	4.72e3	35.5	YES
6	6 13C4-PFOS	1701899-19 WR1712060825JM 0.25916	1.43e3	36.2	YES
7	7 13C6-PFDA	1701899-19 WR1712060825JM 0.25916	3.32e3	29.5	YES
8	8 13C7-PFUDa	1701899-19 WR1712060825JM 0.25916	4.42e3	35.7	YES

**Name: 180103M3\_39, Date: 04-Jan-2018, Time: 13:30:29, ID: 1701899-20 WT1712060845JM 0.26063, Description: WT1712060845JM**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701899-20 WT1712060845JM 0.26063	3.26e3	24.2	YES
2	2 13C5-PFHxA	1701899-20 WT1712060845JM 0.26063	4.11e3	27.1	YES
3	3 13C3-PFHxS	1701899-20 WT1712060845JM 0.26063	1.08e3	29.6	YES
4	4 13C8-PFOA	1701899-20 WT1712060845JM 0.26063	3.73e3	28.0	YES
5	5 13C9-PFNA	1701899-20 WT1712060845JM 0.26063	3.12e3	23.4	YES
6	6 13C4-PFOS	1701899-20 WT1712060845JM 0.26063	1.19e3	30.1	YES
7	7 13C6-PFDA	1701899-20 WT1712060845JM 0.26063	2.27e3	20.2	YES
8	8 13C7-PFUDa	1701899-20 WT1712060845JM 0.26063	3.41e3	27.5	YES

**Name: 180103M3\_40, Date: 04-Jan-2018, Time: 13:41:38, ID: 1701827-01 IR03-EB01-113017 0.24852, Description: IR03-EB01-113017**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701827-01 IR03-EB01-113017 0.24852	3.54e3	26.3	YES
2	2 13C5-PFHxA	1701827-01 IR03-EB01-113017 0.24852	4.34e3	28.7	YES
3	3 13C3-PFHxS	1701827-01 IR03-EB01-113017 0.24852	1.19e3	32.7	YES
4	4 13C8-PFOA	1701827-01 IR03-EB01-113017 0.24852	4.60e3	34.5	YES
5	5 13C9-PFNA	1701827-01 IR03-EB01-113017 0.24852	4.28e3	32.1	YES
6	6 13C4-PFOS	1701827-01 IR03-EB01-113017 0.24852	1.32e3	33.5	YES
7	7 13C6-PFDA	1701827-01 IR03-EB01-113017 0.24852	2.55e3	22.6	YES
8	8 13C7-PFUDa	1701827-01 IR03-EB01-113017 0.24852	3.52e3	28.4	YES

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**Name: 180103M3\_41, Date: 04-Jan-2018, Time: 13:52:49, ID: IPA, Description: IPA**

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

**Name: 180103M3\_42, Date: 04-Jan-2018, Time: 14:04:01, ID: ST180103M3-4 PFC CS3 17L2611, Description: PFC CS3 17L2611**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180103M3-4 PFC CS3 17L2611	1.39e4	102.9	NO
2	2 13C5-PFHxA	ST180103M3-4 PFC CS3 17L2611	1.51e4	99.4	NO
3	3 13C3-PFHxS	ST180103M3-4 PFC CS3 17L2611	3.87e3	106.3	NO
4	4 13C8-PFOA	ST180103M3-4 PFC CS3 17L2611	1.45e4	109.0	NO
5	5 13C9-PFNA	ST180103M3-4 PFC CS3 17L2611	1.60e4	119.8	NO
6	6 13C4-PFOS	ST180103M3-4 PFC CS3 17L2611	3.47e3	87.9	NO
7	7 13C6-PFDA	ST180103M3-4 PFC CS3 17L2611	8.62e3	76.7	NO
8	8 13C7-PFUdA	ST180103M3-4 PFC CS3 17L2611	1.30e4	104.9	NO

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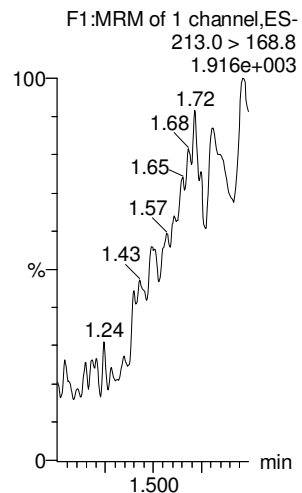
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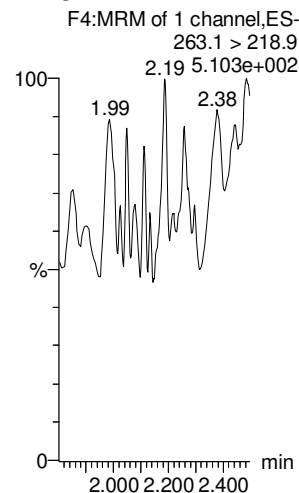
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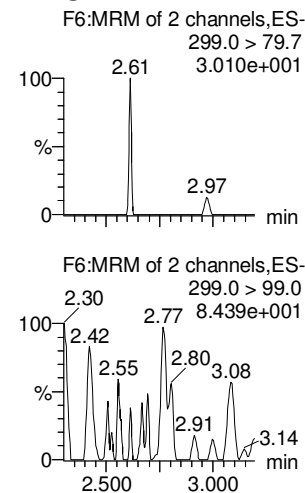
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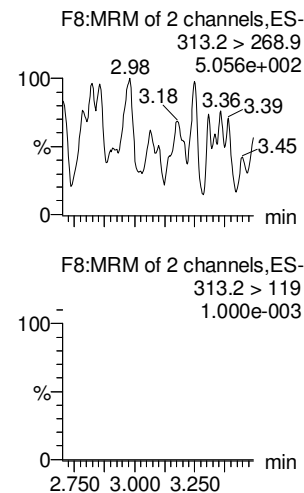
**PFPeA**



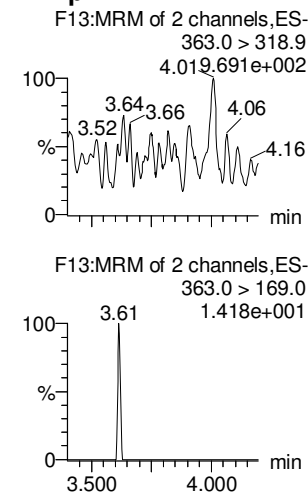
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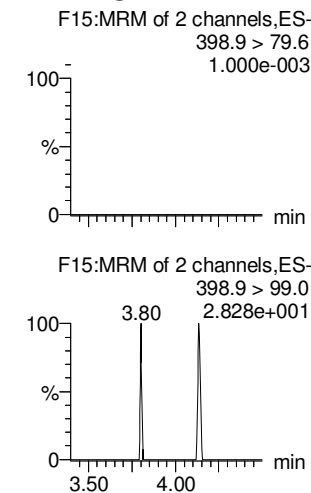
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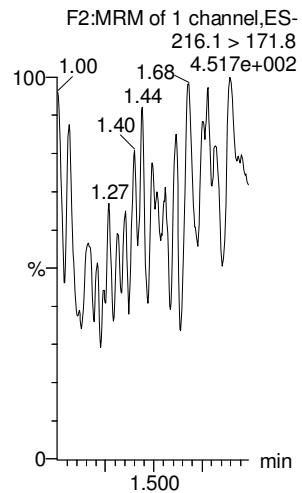
**PFHpA**



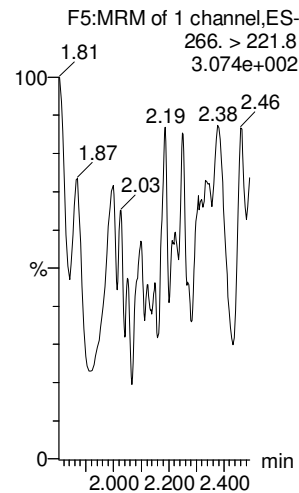
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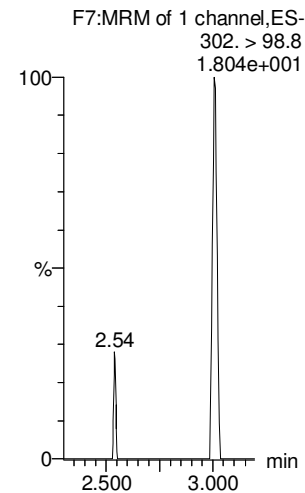
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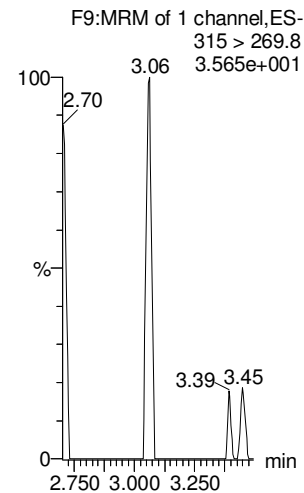
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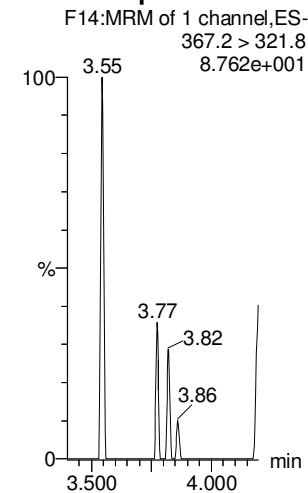
**13C3-PFBS**



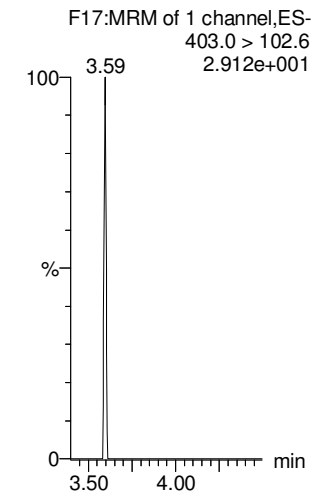
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



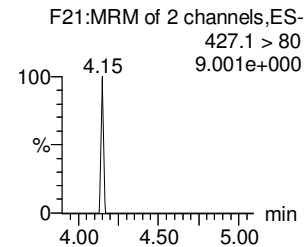
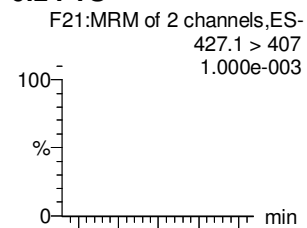
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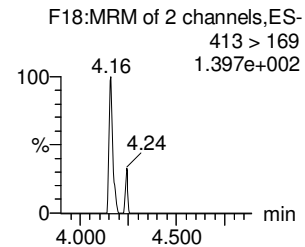
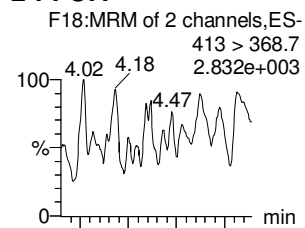
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Name: 180103M1\_10, Date: 03-Jan-2018, Time: 20:18:28, ID: IPA, Description: IPA

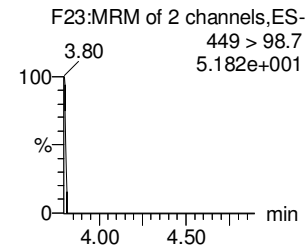
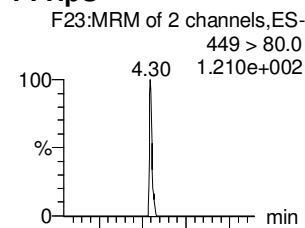
**6:2 FTS**



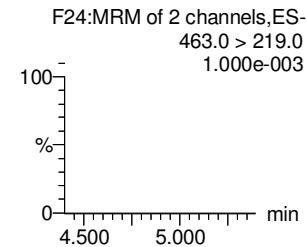
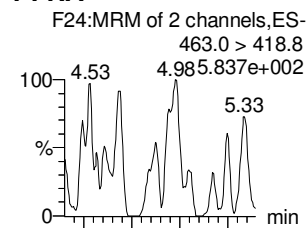
**L-PFOA**



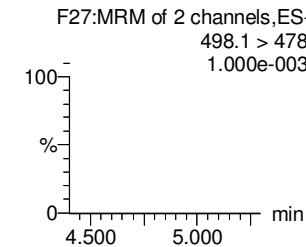
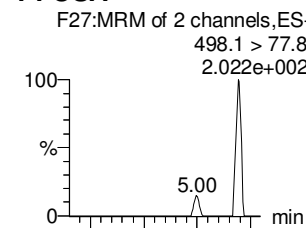
**PFHpS**



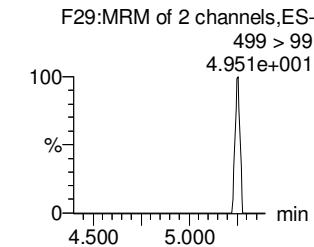
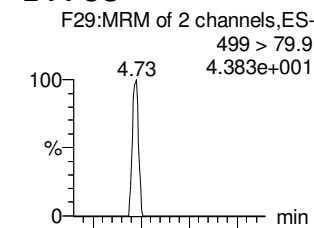
**PFNA**



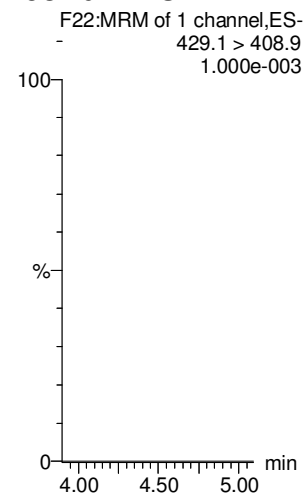
**PFOSA**



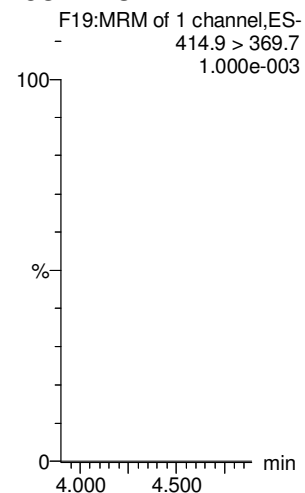
**L-PFOS**



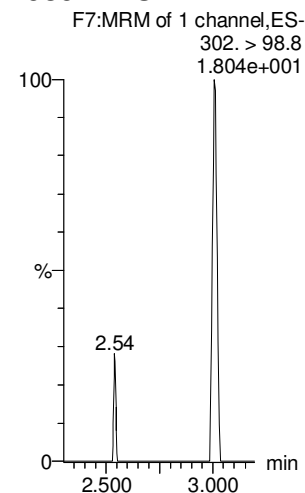
**13C2-6:2 FTS**



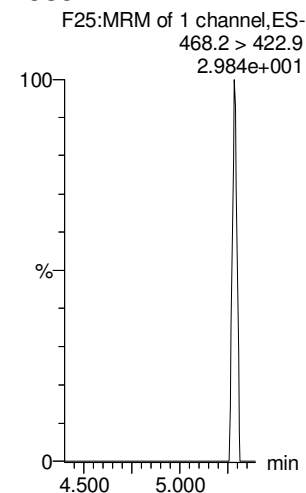
**13C2-PFOA**



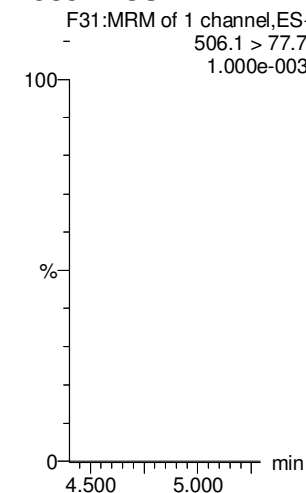
**13C3-PFBS**



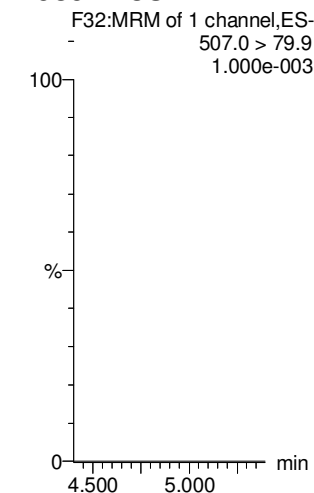
**13C5-PFNA**



**13C8-PFOSA**



**13C8-PFOS**



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**PFDA**

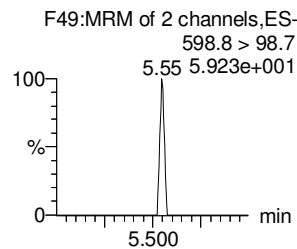
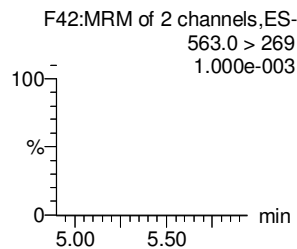
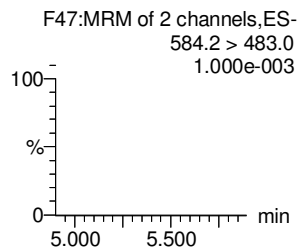
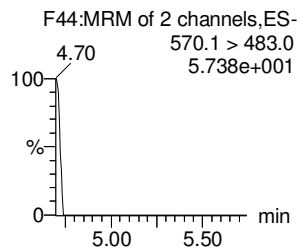
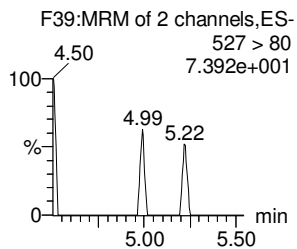
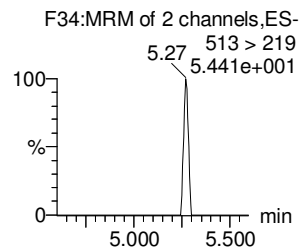
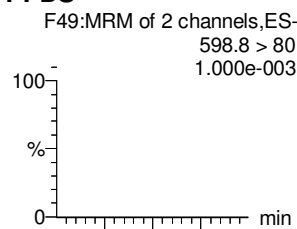
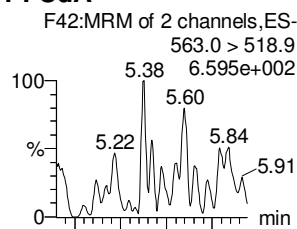
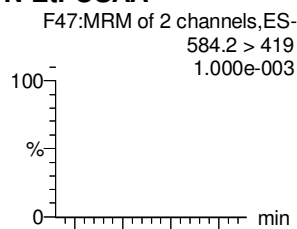
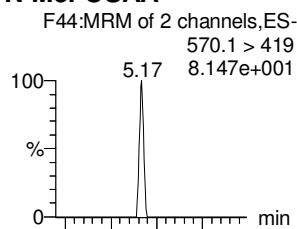
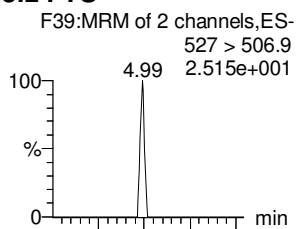
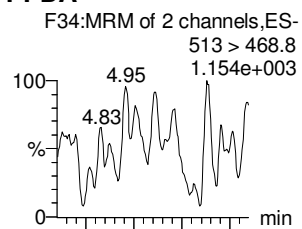
**8:2 FTS**

**N-MeFOSAA**

**N-EtFOSAA**

**PFUdA**

**PFDS**



**13C2-PFDA**

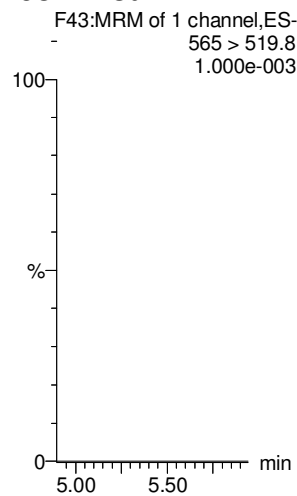
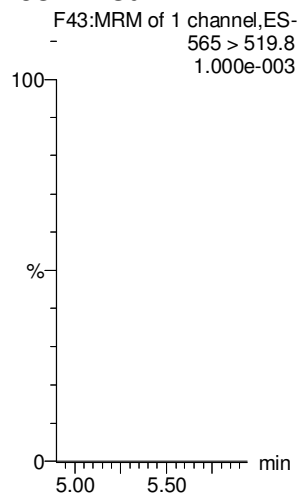
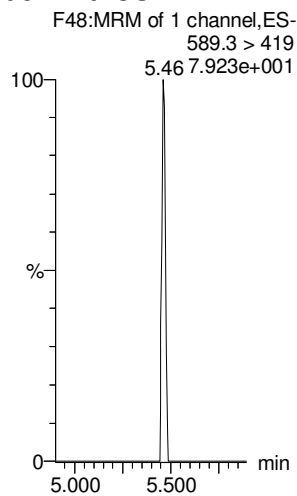
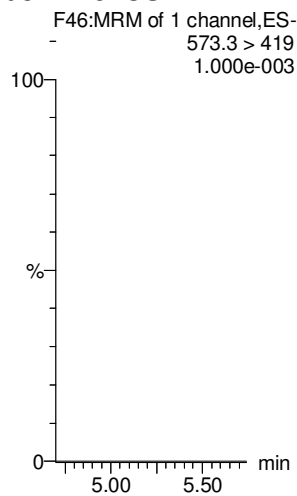
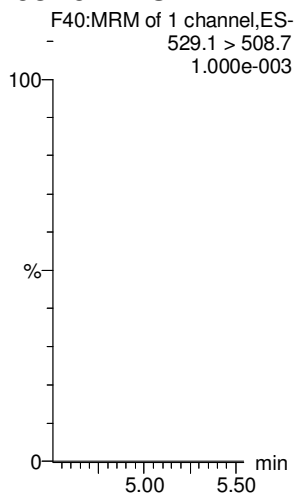
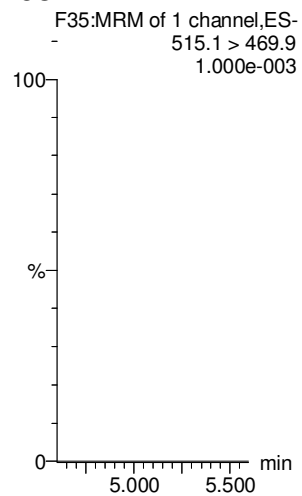
**13C2-8:2 FTS**

**d3-N-MeFOSAA**

**d5-N-EtFOSAA**

**13C2-PFUdA**

**13C2-PFUdA**





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

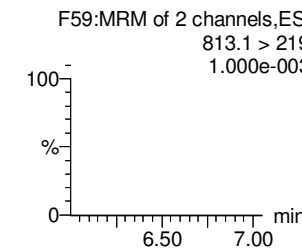
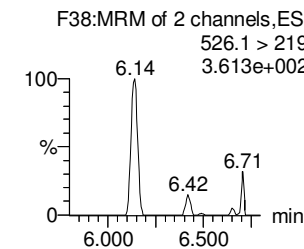
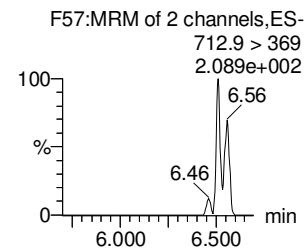
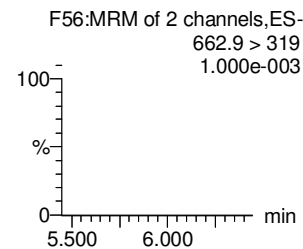
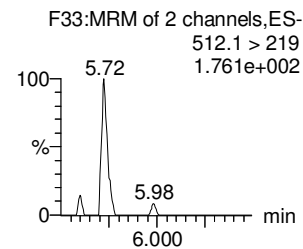
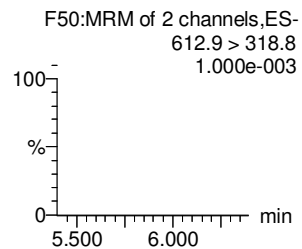
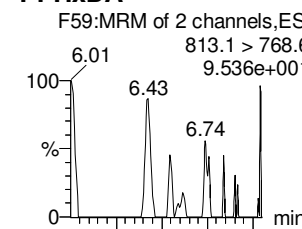
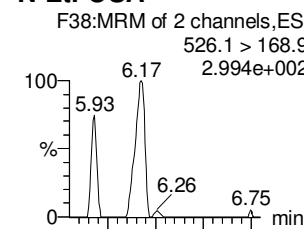
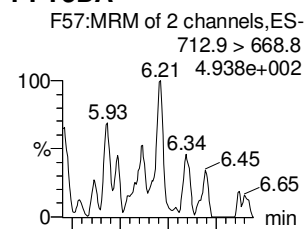
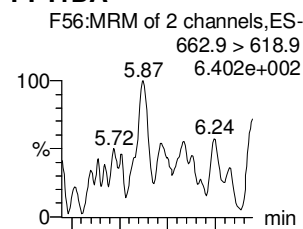
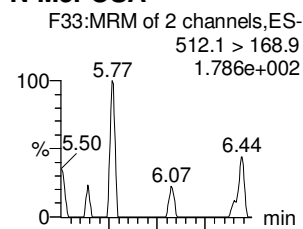
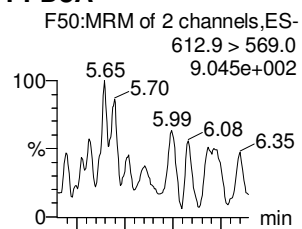
**N-MeFOSA**

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

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

**N-EtFOSA**

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



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

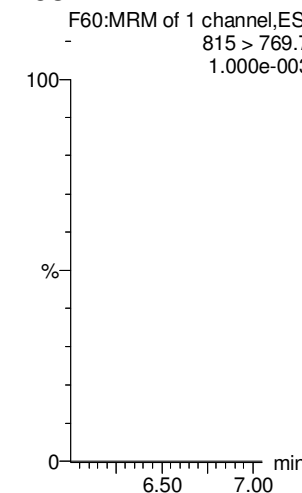
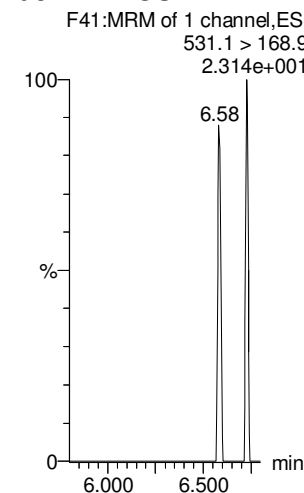
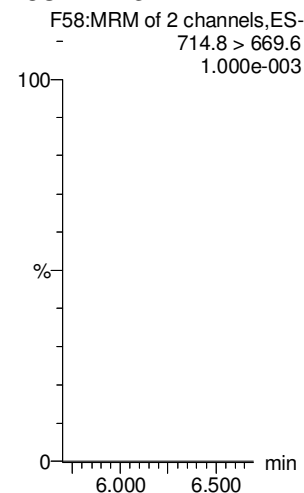
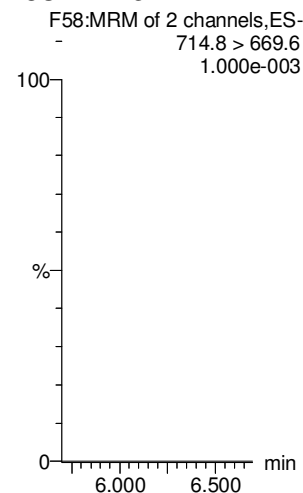
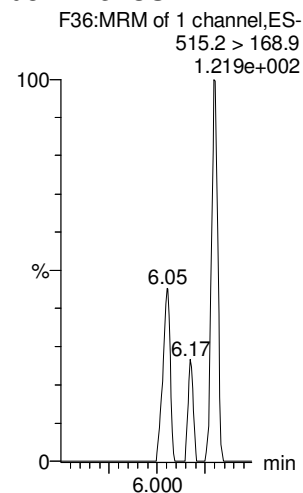
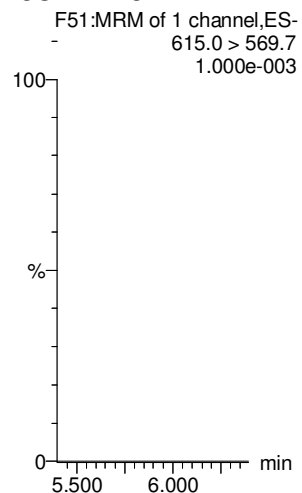
**d3-N-MeFOSA**

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

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

**d5-N-ETFOSA**

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



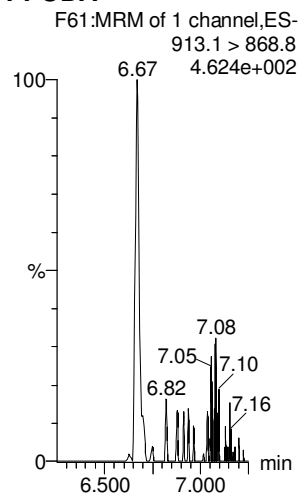
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Last Altered: Thursday, January 04, 2018 10:17:13 Pacific Standard Time

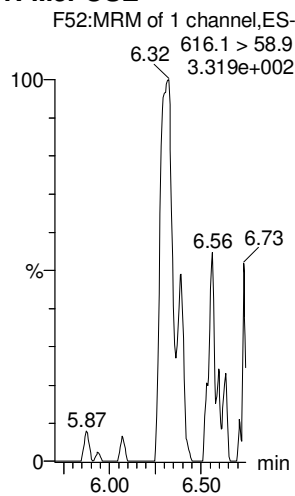
Printed: Thursday, January 04, 2018 10:18:19 Pacific Standard Time

Name: 180103M1\_10, Date: 03-Jan-2018, Time: 20:18:28, ID: IPA, Description: IPA

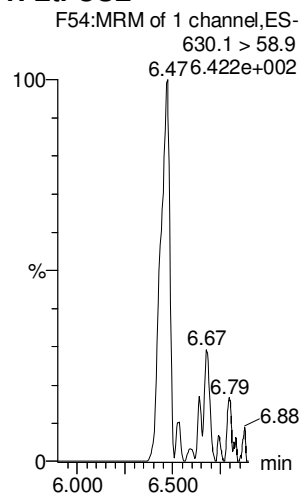
**PFODA**



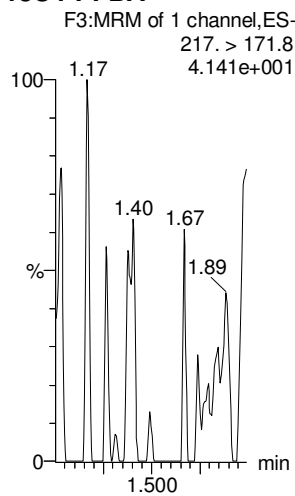
**N-MeFOSE**



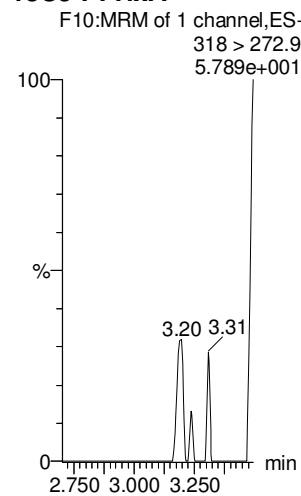
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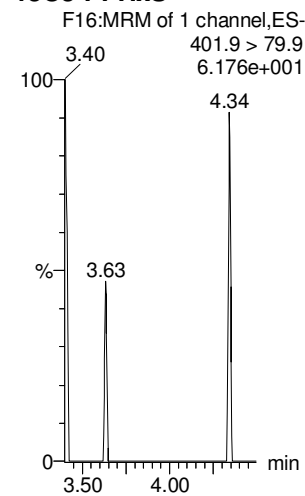
**13C4-PFBA**



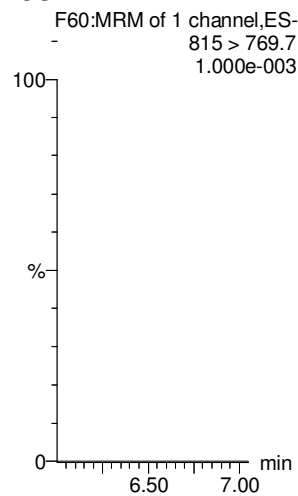
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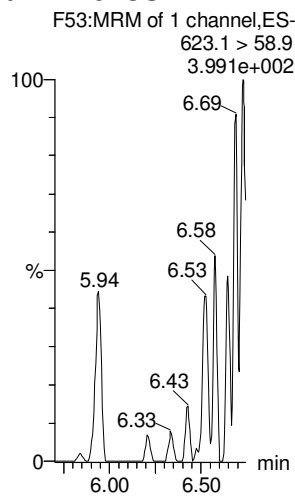
**13C3-PFHxS**



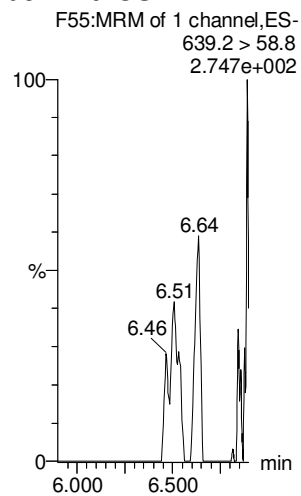
**13C2-PFHxDA**



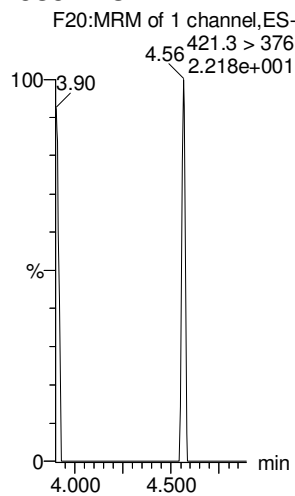
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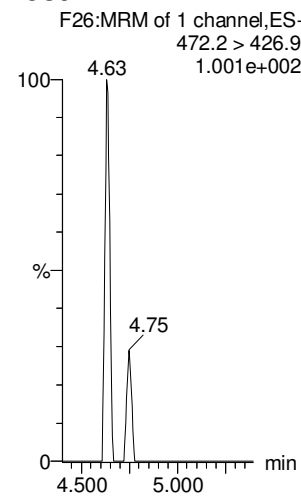
**d9-N-EtFOSE**



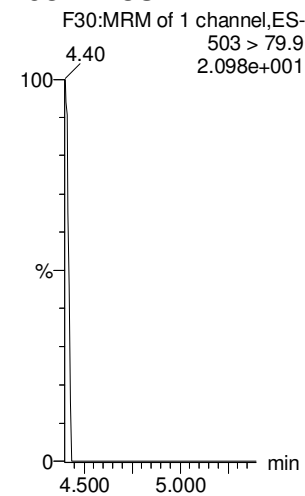
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



Dataset: U:\Q4.PRO\results\180103M1\170103M1-10.qld

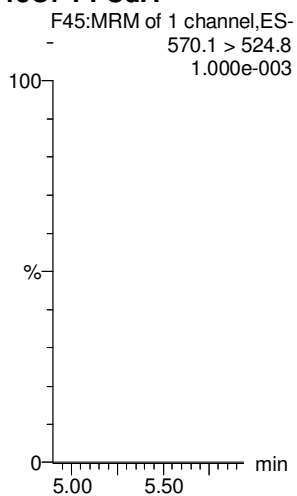
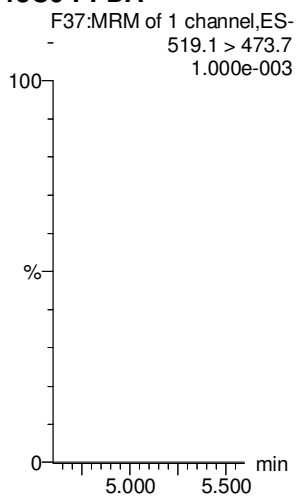
Last Altered: Thursday, January 04, 2018 10:17:13 Pacific Standard Time

Printed: Thursday, January 04, 2018 10:18:19 Pacific Standard Time

Name: 180103M1\_10, Date: 03-Jan-2018, Time: 20:18:28, ID: IPA, Description: IPA

13C6-PFDA

13C7-PFUdA



Dataset: U:\Q4.PRO\results\180103M3\180103M3-1.qld

Last Altered: Thursday, January 04, 2018 12:51:14 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:52:28 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

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JJA.  
01/04/2018

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.03e3	1.04e4	1.0000		1.47	1.37	1.24	0.957	95.7
2	2 PFPeA	263.1 > 218.9	1.04e3	1.28e4	1.0000		2.40	2.34	1.02	0.861	86.1
3	3 PFBS	299.0 > 79.7	2.45e2	1.54e3	1.0000		2.70	2.61	1.99	0.981	98.1
4	4 PFHxA	313.2 > 268.9	1.31e3	4.03e3	1.0000		3.12	3.10	1.63	0.873	87.3
5	5 PFHpA	363.0 > 318.9	1.21e3	1.06e4	1.0000		3.75	3.72	1.44	0.955	95.5
6	6 L-PFHxS	398.9 > 79.6	1.82e2	1.27e3	1.0000		3.92	3.86	1.80	0.915	91.5
7	8 6:2 FTS	427.1 > 407	2.94e2	1.27e4	1.0000		4.20	4.18	0.289	1.059	105.9
8	9 L-PFOA	413 > 368.7	1.28e3	1.27e4	1.0000		4.25	4.23	1.26	0.834	83.4
9	11 PFHpS	449 > 80.0	3.03e2	1.27e4	1.0000		4.35	4.34	0.298	1.223	122.3
10	12 PFNA	463.0 > 418.8	1.38e3	1.16e4	1.0000		4.70	4.67	1.48	1.050	105.0
11	13 PFOSA	498.1 > 77.8	3.41e2	3.73e3	1.0000		4.81	4.74	1.14	0.855	85.5
12	14 L-PFOS	499 > 79.9	2.27e2	3.66e3	1.0000		4.83	4.75	0.774	0.720	72.0
13	16 PFDA	513 > 468.8	1.34e3	1.15e4	1.0000		5.05	5.04	1.46	0.975	97.5
14	17 8:2 FTS	527 > 506.9	3.01e2	3.66e3	1.0000		5.02	5.01	1.03	0.827	82.7
15	18 N-MeFOSAA	570.1 > 419	6.63e2	6.13e3	1.0000		5.20	5.19	1.35	0.909	90.9
16	19 N-EtFOSAA	584.2 > 419	6.67e2	7.17e3	1.0000		5.42	5.34	1.16	0.940	94.0
17	20 PFUdA	563.0 > 518.9	1.23e3	1.24e4	1.0000		5.35	5.36	1.24	1.050	105.0
18	21 PFDS	598.8 > 80	3.09e2	1.24e4	1.0000		5.50	5.41	0.312	0.983	98.3
19	22 PFDoA	612.9 > 569.0	1.11e3	6.96e3	1.0000		5.70	5.65	1.99	0.892	89.2
20	23 N-MeFOSA	512.1 > 168.9	6.44e2	1.83e4	1.0000		5.77	5.78	5.28	4.796	95.9
21	24 PFTrDA	662.9 > 618.9	1.13e3	2.43e3	1.0000		5.95	5.89	5.84	1.115	111.5
22	25 PFTeDA	712.9 > 668.8	5.72e2	2.43e3	1.0000		6.16	6.11	2.95	0.933	93.3
23	26 N-EtFOSA	526.1 > 168.9	8.95e2	2.81e4	1.0000		6.15	6.17	4.77	4.719	94.4
24	27 PFHxDA	813.1 > 768.6	4.60e2	2.47e3	1.0000		6.48	6.44	0.930	0.861	86.1
25	28 PFODA	913.1 > 868.8	5.97e2	2.47e3	1.0000		6.70	6.67	1.21	1.087	108.7
26	29 N-MeFOSE	616.1 > 58.9	8.77e2	2.65e4	1.0000		6.30	6.32	4.97	4.449	89.0
27	30 N-EtFOSE	630.1 > 58.9	1.09e3	2.84e4	1.0000		6.42	6.47	5.77	4.352	87.0
28	31 13C3-PFBA	216.1 > 171.8	1.04e4	1.35e4	1.0000	0.775	1.47	1.37	9.61	12.409	99.3
29	32 13C3-PFPeA	266. > 221.8	1.28e4	1.51e4	1.0000	0.805	2.44	2.34	10.5	13.097	104.8
30	33 13C3-PFBS	302. > 98.8	1.54e3	1.51e4	1.0000	0.106	2.70	2.61	1.27	11.947	95.6
31	34 13C2-PFHxA	315 > 269.8	4.03e3	1.51e4	1.0000	0.633	3.20	3.10	3.32	5.253	105.1

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Dataset: U:\Q4.PRO\results\180103M3\180103M3-1.qld

Last Altered: Thursday, January 04, 2018 12:51:14 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:52:28 Pacific Standard Time

Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

	#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp	Conc.	%Rec
32	35	13C4-PFHpA	367.2 > 321.8	1.06e4	1.51e4	1.0000	0.641	3.80	3.72	8.71	13.590	108.7
33	36	18O2-PFHxS	403.0 > 102.6	1.27e3	3.64e3	1.0000	0.334	3.95	3.86	4.34	12.996	104.0
34	37	13C2-6.2 FTS	429.1 > 408.9	3.13e3	1.33e4	1.0000	0.228	4.26	4.18	2.94	12.865	102.9
35	38	13C2-PFOA	414.9 > 369.7	1.27e4	1.33e4	1.0000	0.959	4.32	4.24	11.9	12.418	99.3
36	39	13C5-PFNA	468.2 > 422.9	1.16e4	1.33e4	1.0000	0.830	4.75	4.67	10.9	13.121	105.0
37	40	13C8-PFOSA	506.1 > 77.7	3.73e3	1.24e4	1.0000	0.262	4.81	4.73	3.77	14.363	114.9
38	41	13C8-PFOS	507.0 > 79.9	3.66e3	3.91e3	1.0000	0.880	4.83	4.75	11.7	13.285	106.3
39	42	13C2-PFDA	515.1 > 469.9	1.15e4	1.12e4	1.0000	0.995	5.11	5.04	12.8	12.849	102.8
40	43	13C2-8.2 FTS	529.1 > 508.7	1.90e3	1.51e4	1.0000	0.142	5.09	5.01	1.57	11.007	88.1
41	44	d3-N-MeFOSAA	573.3 > 419	6.13e3	1.24e4	1.0000	0.376	5.26	5.19	6.19	16.470	131.8
42	45	d5-N-EtFOSAA	589.3 > 419	7.17e3	1.24e4	1.0000	0.444	5.42	5.34	7.24	16.327	130.6
43	46	13C2-PFUdA	565 > 519.8	1.24e4	1.24e4	1.0000	0.889	5.43	5.36	12.5	14.093	112.7
44	47	13C2-PFDoA	615.0 > 569.7	6.96e3	1.24e4	1.0000	0.542	5.70	5.65	7.02	12.956	103.6
45	48	d3-N-MeFOSA	515.2 > 168.9	1.83e4	1.24e4	1.0000	0.117	5.80	5.80	18.5	158.465	105.6
46	49	13C2-PFTeDA	714.8 > 669.6	2.43e3	1.24e4	1.0000	0.230	6.16	6.11	2.45	10.638	85.1
47	50	d5-N-ETFOSA	531.1 > 168.9	2.81e4	1.24e4	1.0000	0.170	6.16	6.19	28.4	167.065	111.4
48	51	13C2-PFHxDA	815 > 769.7	2.47e3	1.24e4	1.0000	0.432	6.48	6.44	2.49	5.774	115.5
49	52	d7-N-MeFOSE	623.1 > 58.9	2.65e4	1.24e4	1.0000	0.161	6.30	6.31	26.7	165.848	110.6
50	53	d9-N-EtFOSE	639.2 > 58.8	2.84e4	1.24e4	1.0000	0.158	6.42	6.46	28.7	182.012	121.3
51	54	13C4-PFBA	217. > 171.8	1.35e4	1.35e4	1.0000	1.000	1.47	1.37	12.5	12.500	100.0
52	55	13C5-PFHxA	318 > 272.9	1.51e4	1.51e4	1.0000	1.000	3.20	3.10	12.5	12.500	100.0
53	56	13C3-PFHxS	401.9 > 79.9	3.64e3	3.64e3	1.0000	1.000	3.95	3.87	12.5	12.500	100.0
54	57	13C8-PFOA	421.3 > 376	1.33e4	1.33e4	1.0000	1.000	4.32	4.23	12.5	12.500	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.33e4	1.33e4	1.0000	1.000	4.75	4.67	12.5	12.500	100.0
56	59	13C4-PFOS	503 > 79.9	3.91e3	3.91e3	1.0000	1.000	4.83	4.75	12.5	12.500	100.0
57	60	13C6-PFDA	519.1 > 473.7	1.12e4	1.12e4	1.0000	1.000	5.11	5.04	12.5	12.500	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.24e4	1.24e4	1.0000	1.000	5.43	5.36	12.5	12.500	100.0

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Dataset: Untitled

Last Altered: Friday, January 05, 2018 08:19:47 Pacific Standard Time  
 Printed: Friday, January 05, 2018 08:20:30 Pacific Standard Time

Method: U:\Q4.PROMethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09  
 Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Compound name: PFBA

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1	180103M3_1	ST180103M3-1 PFC CS0 17L2608	04-Jan-18	06:22:45
2	180103M3_2	IPA	04-Jan-18	06:33:54
3	180103M3_3	1701827-01 IR03-EB01-113017 0.24852	04-Jan-18	06:45:04
4	180103M3_4	B7L0092-MS1@40X Matrix Spike 16.49	04-Jan-18	06:56:15
5	180103M3_5	B7L0092-MSD1@40X Matrix Spike Dup 16.11	04-Jan-18	07:07:26
6	180103M3_6	1701841-01@40X OF-SLG01-1217 17.61	04-Jan-18	07:18:37
7	180103M3_7	1701841-02@40X OF-SLG02-1217 10.1	04-Jan-18	07:29:47
8	180103M3_8	1701841-03@40X OF-SLG02P-1217 6.48	04-Jan-18	07:40:58
9	180103M3_9	1701841-04@40X OF-SLG03-1217 11.57	04-Jan-18	07:52:08
10	180103M3_10	1701841-05@40X OF-SLG04-1217 5.07	04-Jan-18	08:03:19
11	180103M3_11	1701899-01 WT1712051145JM 0.25897	04-Jan-18	08:14:30
12	180103M3_12	1701899-02 WT1712051200JM 0.23198	04-Jan-18	08:25:40
13	180103M3_13	1701899-03 WR1712051300JM 0.26153	04-Jan-18	08:36:51
14	180103M3_14	1701899-04 WT1712051315JM 0.26777	04-Jan-18	08:48:02
15	180103M3_15	IPA	04-Jan-18	08:59:13
16	180103M3_16	ST180103M3-2 PFC CS3 17L2611	04-Jan-18	09:10:24
17	180103M3_17	IPA	04-Jan-18	09:21:34
18	180103M3_18	1701899-05 WT1712051335JM 0.26758	04-Jan-18	09:32:45
19	180103M3_19	1701899-06 WT1712051400JM 0.26538	04-Jan-18	09:43:55
20	180103M3_20	1701899-07 WT1712051410JM 0.25127	04-Jan-18	09:55:06
21	180103M3_21	1701899-08 WT1712051425JM 0.26218	04-Jan-18	10:06:17
22	180103M3_22	1701899-09 WT1712051440JM 0.26087	04-Jan-18	10:17:37
23	180103M3_23	1701899-10 WT1712051500JM 0.25605	04-Jan-18	10:28:55
24	180103M3_24	1701899-11 WT1712051510JM 0.26385	04-Jan-18	10:40:06
25	180103M3_25	1701899-12 WT1712051530JM 0.25998	04-Jan-18	10:51:16
26	180103M3_26	1701899-13 WR1712051600JM 0.25784	04-Jan-18	11:02:27
27	180103M3_27	1701899-14 WT1712051620JM 0.26501	04-Jan-18	11:13:37
28	180103M3_28	B7L0167-BS1 OPR 0.25	04-Jan-18	11:24:48
29	180103M3_29	IPA	04-Jan-18	11:35:58
30	180103M3_30	B7L0167-BLK1 Method Blank 0.25	04-Jan-18	11:47:10
31	180103M3_31	IPA	04-Jan-18	11:58:20

Dataset: Untitled

Last Altered: Friday, January 05, 2018 08:19:47 Pacific Standard Time  
 Printed: Friday, January 05, 2018 08:20:30 Pacific Standard Time

**Compound name: PFBA**

	Name	ID	Acq Date	Acq Time
32	180103M3_32	ST180103M3-3 PFC CS3 17L2611	04-Jan-18	12:09:31
33	180103M3_33	IPA	04-Jan-18	12:20:42
34	180103M3_34	1701899-15 WT1712051640JM 0.25701	04-Jan-18	12:31:52
35	180103M3_35	1701899-16 WT1712051700JM 0.25912	04-Jan-18	12:43:03
36	180103M3_36	1701899-17 WT1712051735JM 0.24772	04-Jan-18	12:54:14
37	180103M3_37	1701899-18 WR1712060820JM 0.25514	04-Jan-18	13:05:24
38	180103M3_38	1701899-19 WR1712060825JM 0.25916	04-Jan-18	13:19:19
39	180103M3_39	1701899-20 WT1712060845JM 0.26063	04-Jan-18	13:30:29
40	180103M3_40	1701827-01 IR03-EB01-113017 0.24852	04-Jan-18	13:41:38
41	180103M3_41	IPA	04-Jan-18	13:52:49
42	180103M3_42	ST180103M3-4 PFC CS3 17L2611	04-Jan-18	14:04:01
43	180103M3_43	IPA	04-Jan-18	14:15:11
44	180103M3_44	B7L0092-MS1@40X Matrix Spike 16.49	04-Jan-18	14:26:22
45	180103M3_45	B7L0092-MSD1@40X Matrix Spike Dup 16.11	04-Jan-18	14:37:33
46	180103M3_46	1701841-01@40X OF-SLG01-1217 17.61	04-Jan-18	14:48:43
47	180103M3_47	1701841-02@40X OF-SLG02-1217 10.1	04-Jan-18	14:59:54
48	180103M3_48	1701841-03@40X OF-SLG02P-1217 6.48	04-Jan-18	15:11:05
49	180103M3_49	1701841-04@40X OF-SLG03-1217 11.57	04-Jan-18	15:22:18
50	180103M3_50	IPA	04-Jan-18	15:33:26
51	180103M3_51	ST180103M3-5 PFC CS3 17L2611	04-Jan-18	15:44:37
52	180103M3_52	IPA	04-Jan-18	15:55:48

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Last Altered: Thursday, January 04, 2018 12:51:14 Pacific Standard Time

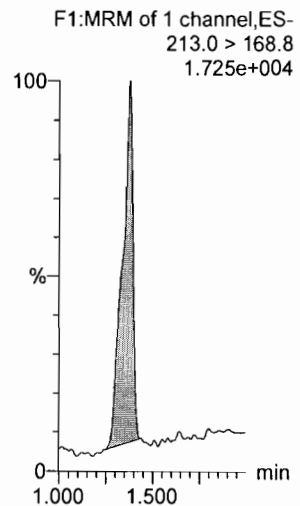
Printed: Thursday, January 04, 2018 12:52:28 Pacific Standard Time

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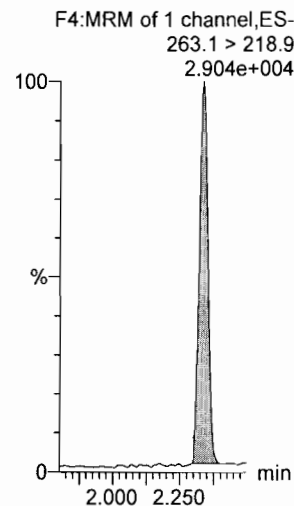
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Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

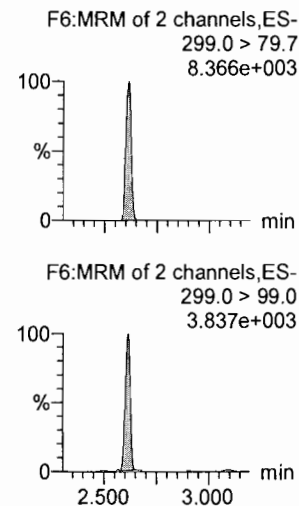
**PFBA**



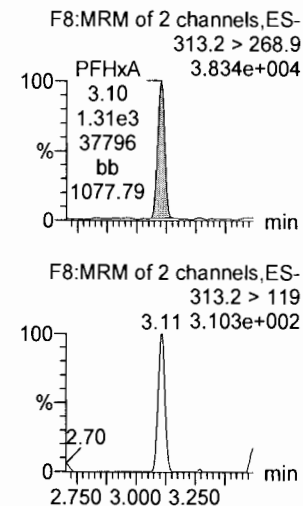
**PFPeA**



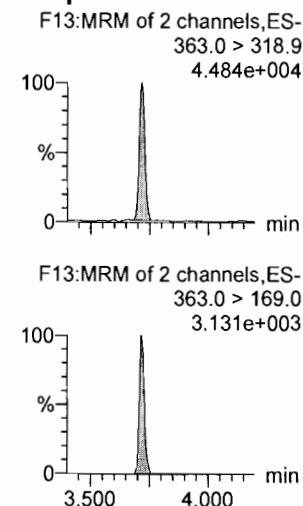
**PFBS**



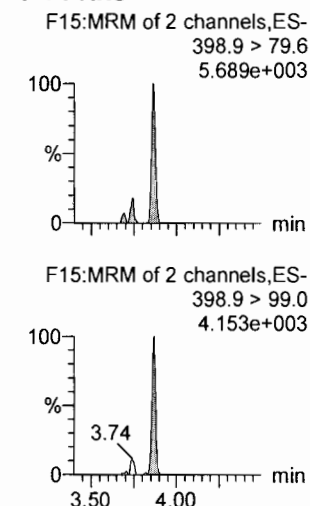
**PFHxA**



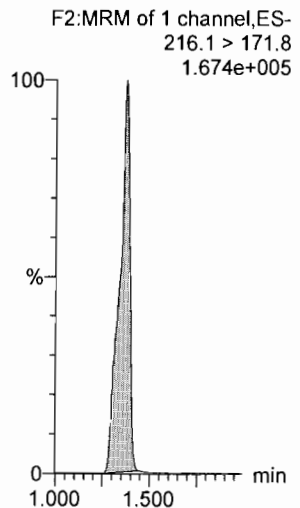
**PFHpA**



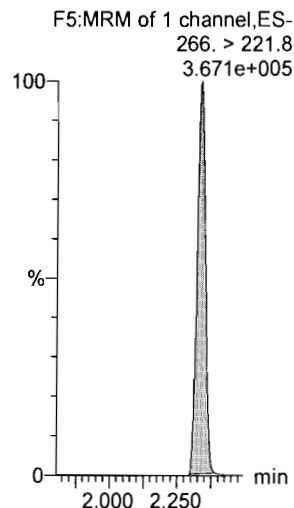
**L-PFHxS**



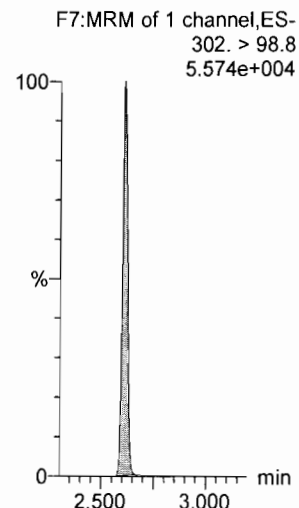
**13C3-PFBA**



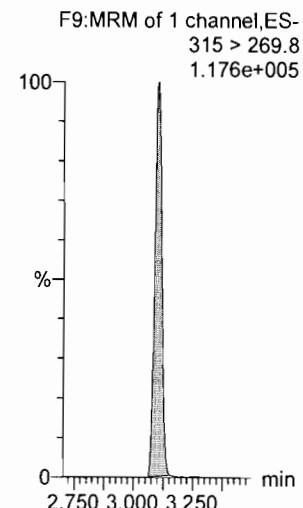
**13C3-PFPeA**



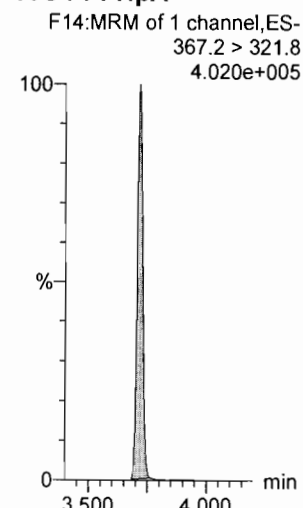
**13C3-PFBS**



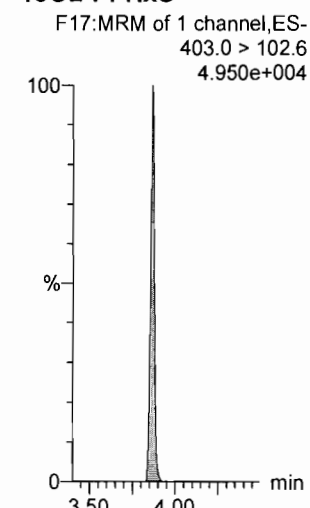
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**





Dataset: U:\Q4.PRO\results\180103M3\180103M3-1.qld

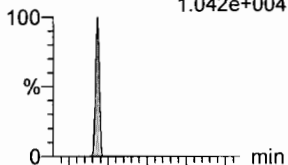
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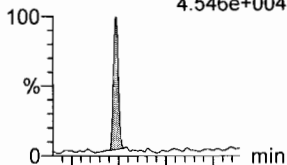
**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.042e+004



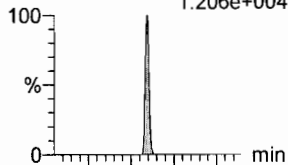
**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.546e+004



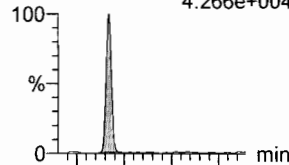
**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.206e+004



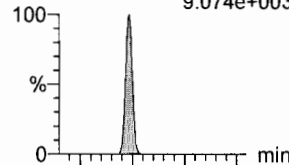
**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.266e+004



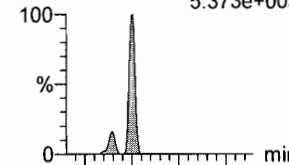
**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
9.074e+003

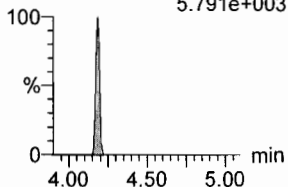


**L-PFOS**

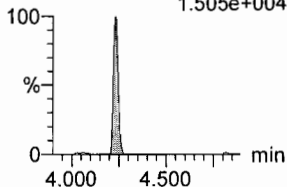
F29:MRM of 2 channels,ES-  
499 > 79.9  
5.373e+003



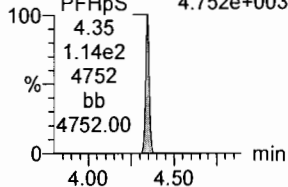
F21:MRM of 2 channels,ES-  
427.1 > 80  
5.791e+003



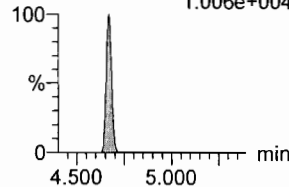
F18:MRM of 2 channels,ES-  
413 > 169  
1.505e+004



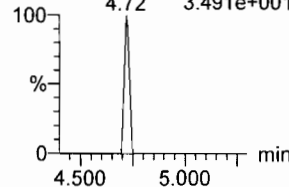
F23:MRM of 2 channels,ES-  
449 > 98.7  
4.752e+003



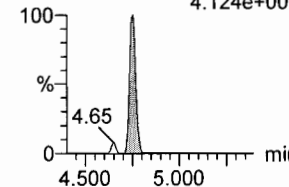
F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.006e+004



F27:MRM of 2 channels,ES-  
498.1 > 478  
3.491e+001

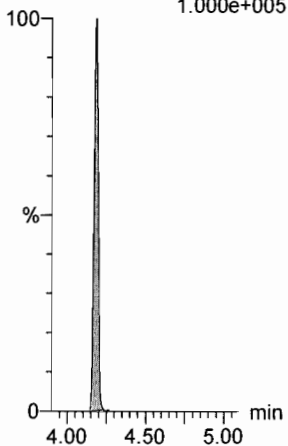


F29:MRM of 2 channels,ES-  
499 > 99  
4.124e+003



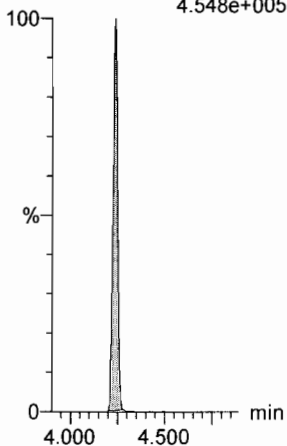
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.000e+005



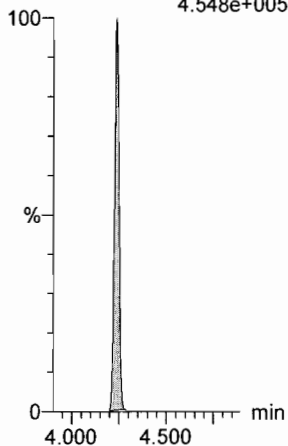
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.548e+005



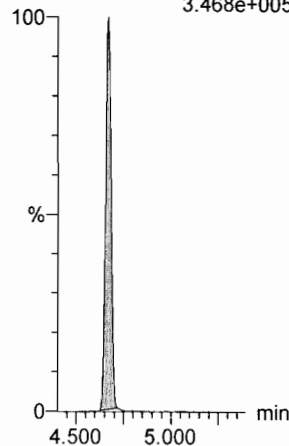
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.548e+005



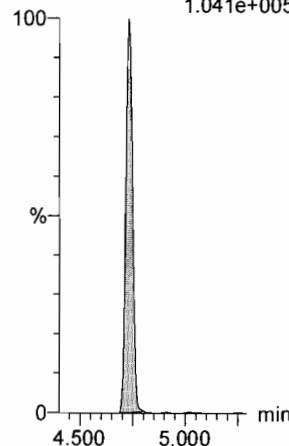
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.468e+005



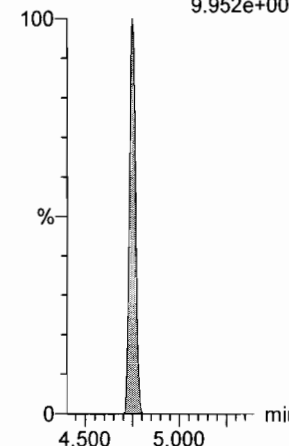
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
1.041e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.952e+004



Dataset: U:\Q4.PRO\results\180103M3\180103M3-1.qld

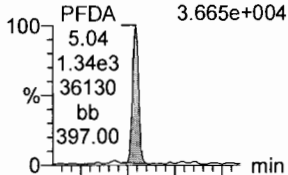
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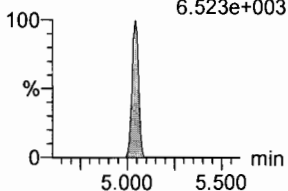
Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
3.665e+004

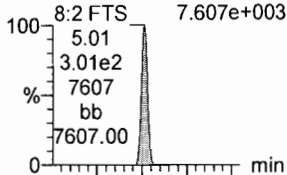


F34:MRM of 2 channels,ES-  
513 > 219  
6.523e+003

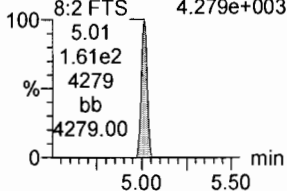


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
7.607e+003

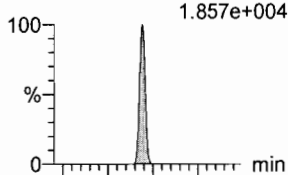


F39:MRM of 2 channels,ES-  
527 > 80  
4.279e+003

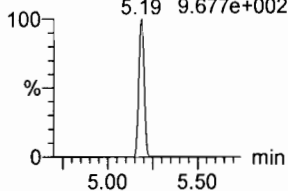


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.857e+004

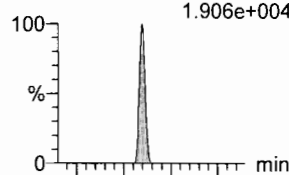


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
9.677e+002

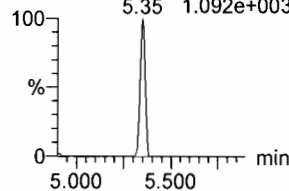


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.906e+004

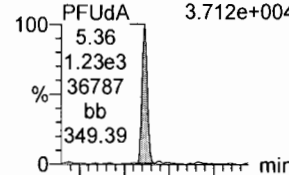


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.092e+003

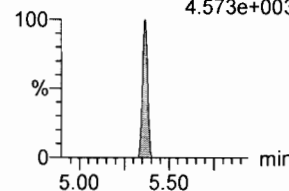


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
3.712e+004

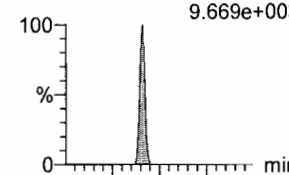


F42:MRM of 2 channels,ES-  
563.0 > 269  
4.573e+003

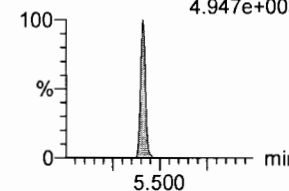


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
9.669e+003

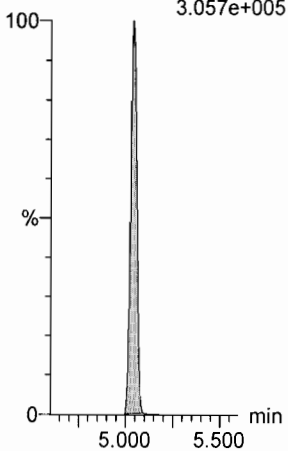


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
4.947e+003



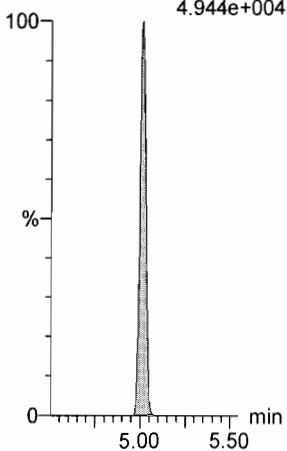
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
3.057e+005



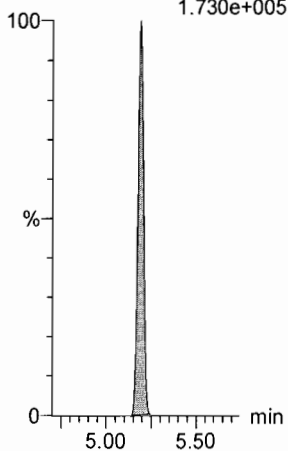
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.944e+004



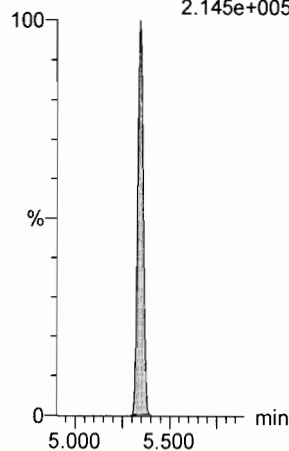
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.730e+005



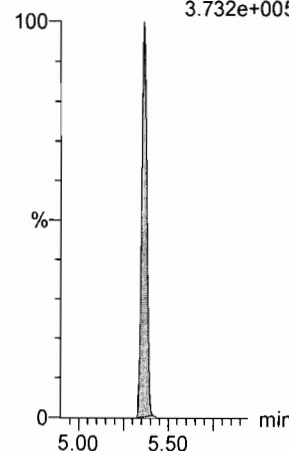
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
2.145e+005



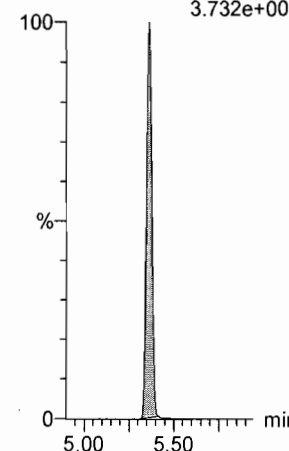
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.732e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.732e+005



Dataset: U:\Q4.PRO\results\180103M3\180103M3-1.qld

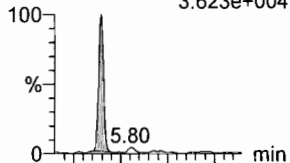
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Printed: Thursday, January 04, 2018 12:52:28 Pacific Standard Time

Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

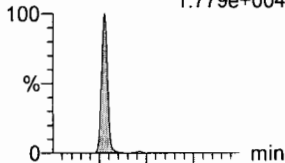
**PFD<sub>o</sub>A**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
3.623e+004



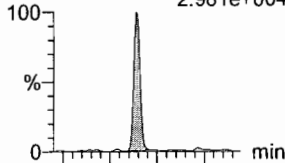
**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
1.779e+004



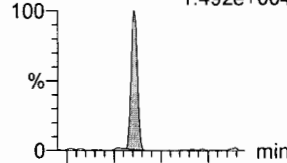
**PFT<sub>r</sub>DA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
2.981e+004



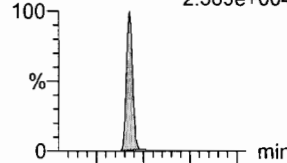
**PFT<sub>e</sub>DA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
1.492e+004



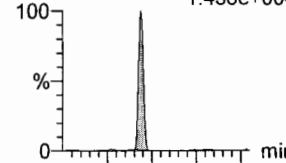
**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.389e+004

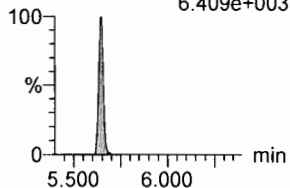


**PFH<sub>x</sub>DA**

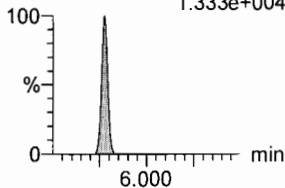
F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.436e+004



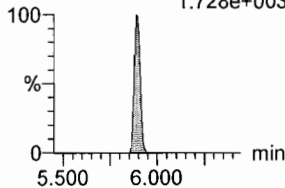
F50:MRM of 2 channels,ES-  
612.9 > 318.8  
6.409e+003



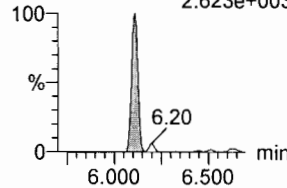
F33:MRM of 2 channels,ES-  
512.1 > 219  
1.333e+004



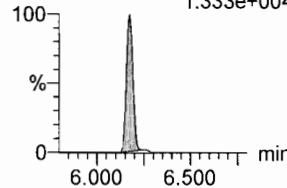
F56:MRM of 2 channels,ES-  
662.9 > 319  
1.728e+003



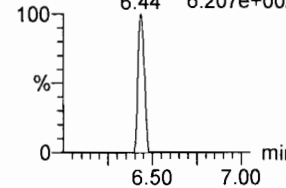
F57:MRM of 2 channels,ES-  
712.9 > 369  
2.623e+003



F38:MRM of 2 channels,ES-  
526.1 > 219  
1.333e+004

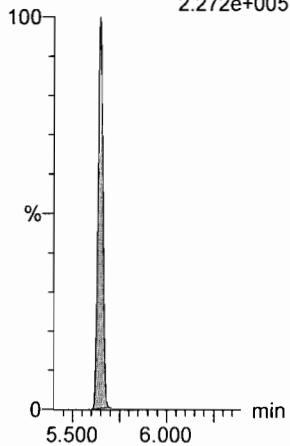


F59:MRM of 2 channels,ES-  
813.1 > 219  
6.207e+002



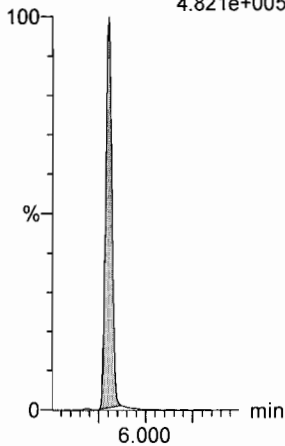
**<sup>13</sup>C<sub>2</sub>-PFD<sub>o</sub>A**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.272e+005



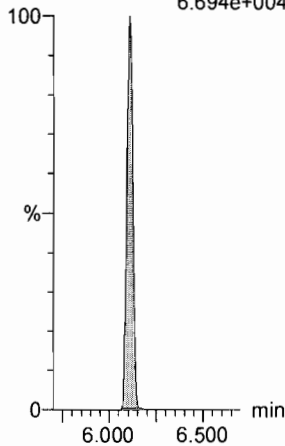
**d<sub>3</sub>-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
4.821e+005



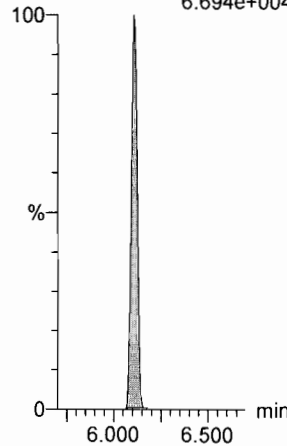
**<sup>13</sup>C<sub>2</sub>-PFT<sub>r</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
6.694e+004



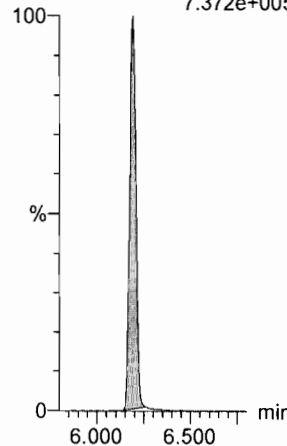
**<sup>13</sup>C<sub>2</sub>-PFT<sub>e</sub>DA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
6.694e+004



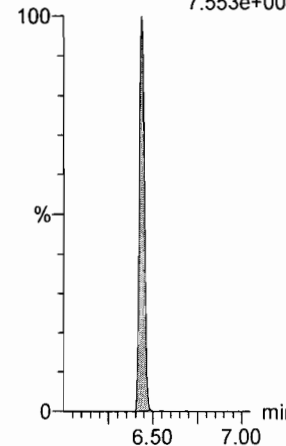
**d<sub>5</sub>-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
7.372e+005



**<sup>13</sup>C<sub>2</sub>-PFH<sub>x</sub>DA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
7.553e+004



Dataset: U:\Q4.PRO\results\180103M3\180103M3-1.qld

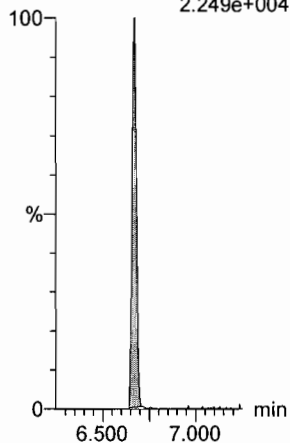
Last Altered: Thursday, January 04, 2018 12:51:14 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:52:28 Pacific Standard Time

Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

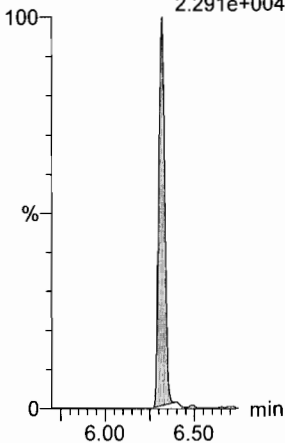
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
2.249e+004



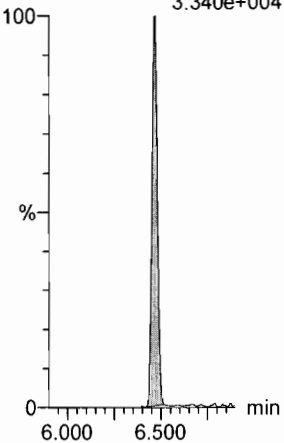
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.291e+004



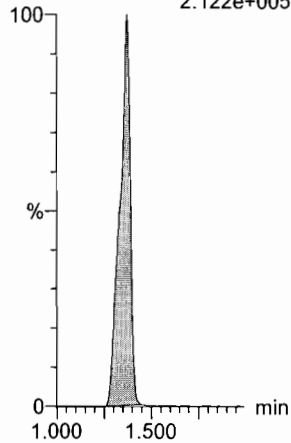
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.340e+004



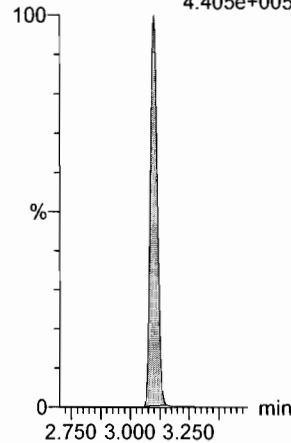
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
2.122e+005



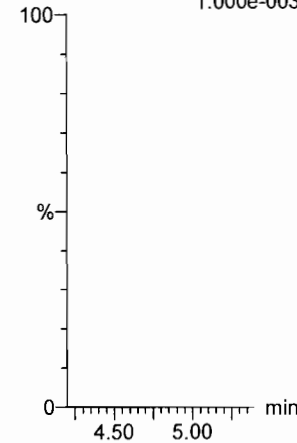
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.405e+005



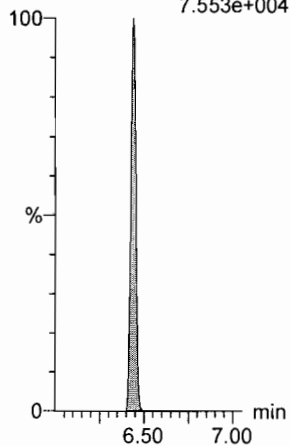
**TCDA**

F28:MRM of 3 channels,ES-  
-  
498.3 > 106.9  
1.000e-003



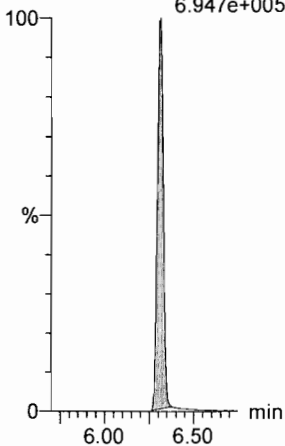
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
7.553e+004



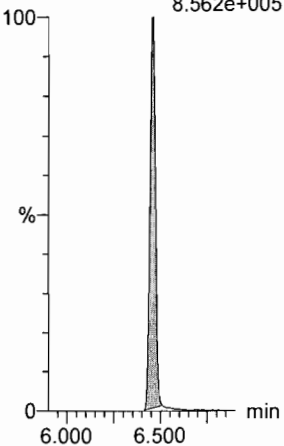
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
6.947e+005



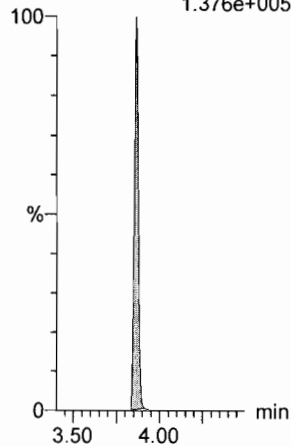
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
8.562e+005



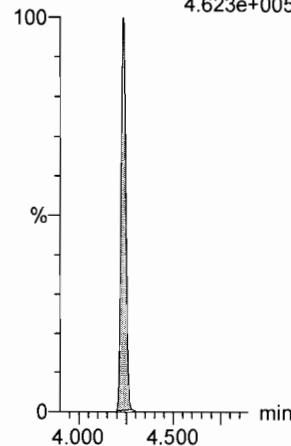
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
1.376e+005



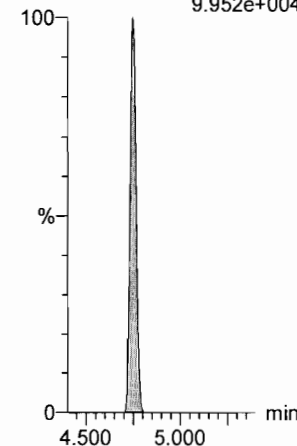
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
4.623e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.952e+004



Dataset: U:\Q4.PRO\results\180103M3\180103M3-1.qld

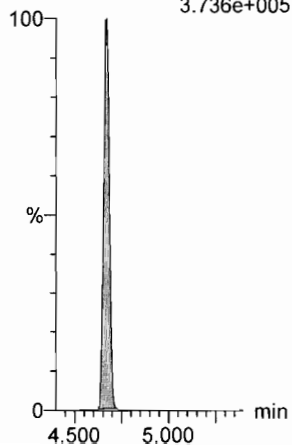
Last Altered: Thursday, January 04, 2018 12:51:14 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:52:28 Pacific Standard Time

Name: 180103M3\_1, Date: 04-Jan-2018, Time: 06:22:45, ID: ST180103M3-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

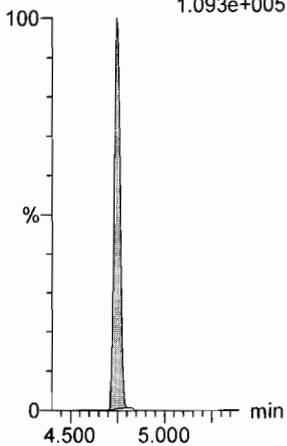
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.736e+005



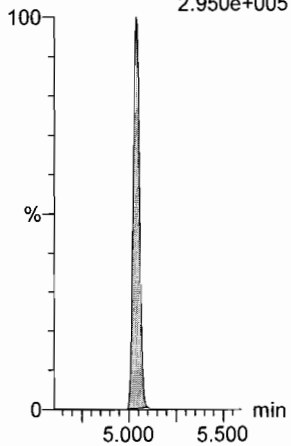
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
1.093e+005



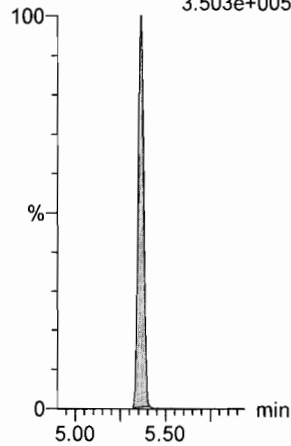
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.950e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.503e+005



Dataset: U:\Q4.PRO\results\180103M3\180103M3-16.qld

Last Altered: Thursday, January 04, 2018 12:54:12 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:54:32 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

AC  
11/4/18

JMA  
01/04/2018

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.14e4	1.02e4	1.0000		1.47	1.37	14.0	9.955	99.5
2	2 PFPeA	263.1 > 218.9	1.20e4	1.18e4	1.0000		2.40	2.34	12.8	10.283	102.8
3	3 PFBS	299.0 > 79.7	2.97e3	1.63e3	1.0000		2.70	2.61	22.9	10.420	104.2
4	4 PFHxA	313.2 > 268.9	1.59e4	3.75e3	1.0000		3.12	3.10	21.2	11.313	113.1
5	5 PFHpA	363.0 > 318.9	1.20e4	9.02e3	1.0000		3.75	3.72	16.7	10.434	104.3
6	6 L-PFHxS	398.9 > 79.6	2.11e3	1.28e3	1.0000		3.92	3.87	20.6	10.319	103.2
7	8 6:2 FTS	427.1 > 407	3.32e3	1.21e4	1.0000		4.20	4.18	3.43	11.220	112.2
8	9 L-PFOA	413 > 368.7	1.29e4	1.21e4	1.0000		4.25	4.24	13.3	10.457	104.6
9	11 PFHpS	449 > 80.0	3.38e3	1.21e4	1.0000		4.35	4.34	3.49	11.621	116.2
10	12 PFNA	463.0 > 418.8	1.20e4	1.21e4	1.0000		4.70	4.67	12.4	8.581	85.8
11	13 PFOSA	498.1 > 77.8	3.92e3	3.48e3	1.0000		4.81	4.73	14.1	10.402	104.0
12	14 L-PFOS	499 > 79.9	3.49e3	3.71e3	1.0000		4.83	4.75	11.8	11.487	114.9
13	16 PFDA	513 > 468.8	1.42e4	9.57e3	1.0000		5.05	5.04	18.6	11.435	114.3
14	17 8:2 FTS	527 > 506.9	3.84e3	3.71e3	1.0000		5.02	5.01	13.0	10.406	104.1
15	18 N-MeFOSAA	570.1 > 419	7.61e3	5.82e3	1.0000		5.20	5.19	16.4	8.427	84.3
16	19 N-EtFOSAA	584.2 > 419	8.27e3	6.50e3	1.0000		5.42	5.34	15.9	12.009	120.1
17	20 PFUdA	563.0 > 518.9	1.61e4	1.43e4	1.0000		5.35	5.36	14.1	11.015	110.1
18	21 PFDS	598.8 > 80	4.05e3	1.43e4	1.0000		5.50	5.41	3.53	10.027	100.3
19	22 PFDoA	612.9 > 569.0	1.45e4	7.06e3	1.0000		5.70	5.64	25.8	10.527	105.3
20	23 N-MeFOSA	512.1 > 168.9	7.58e3	1.88e4	1.0000		5.77	5.78	60.6	54.018	108.0
21	24 PFTrDA	662.9 > 618.9	1.29e4	2.45e3	1.0000		5.95	5.89	65.7	11.697	117.0
22	25 PFTeDA	712.9 > 668.8	6.59e3	2.45e3	1.0000		6.16	6.11	33.7	10.324	103.2
23	26 N-EtFOSA	526.1 > 168.9	9.85e3	2.89e4	1.0000		6.15	6.17	51.1	50.141	100.3
24	27 PFHxDA	813.1 > 768.6	5.05e3	2.01e3	1.0000		6.48	6.44	12.6	11.978	119.8
25	28 PFODA	913.1 > 868.8	5.56e3	2.01e3	1.0000		6.70	6.67	13.8	12.212	122.1
26	29 N-MeFOSE	616.1 > 58.9	1.09e4	2.80e4	1.0000		6.30	6.32	58.6	49.789	99.6
27	30 N-EtFOSE	630.1 > 58.9	1.18e4	2.90e4	1.0000		6.42	6.46	61.0	48.813	97.6
28	31 13C3-PFBA	216.1 > 171.8	1.02e4	1.31e4	1.0000	0.775	1.47	1.37	9.77	12.615	100.9
29	32 13C3-PFPeA	266. > 221.8	1.18e4	1.63e4	1.0000	0.805	2.44	2.34	9.04	11.223	89.8
30	33 13C3-PFBS	302. > 98.8	1.63e3	1.63e4	1.0000	0.106	2.70	2.61	1.25	11.763	94.1
31	34 13C2-PFHxA	315 > 269.8	3.75e3	1.63e4	1.0000	0.633	3.20	3.10	2.88	4.558	91.2

70-130  
↓  
50-150  
↓

Dataset: U:\Q4.PRO\results\180103M3\180103M3-16.qld

Last Altered: Thursday, January 04, 2018 12:54:12 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:54:32 Pacific Standard Time

Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
32	35	13C4-PFHpA	367.2 > 321.8	9.02e3	1.63e4	1.0000	0.641	3.80	3.72	6.93	10.812	86.5
33	36	18O2-PFHxS	403.0 > 102.6	1.28e3	4.10e3	1.0000	0.334	3.95	3.86	3.92	11.718	93.7
34	37	13C2-6:2 FTS	429.1 > 408.9	2.87e3	1.42e4	1.0000	0.228	4.26	4.18	2.53	11.079	88.6
35	38	13C2-PFOA	414.9 > 369.7	1.21e4	1.42e4	1.0000	0.959	4.32	4.23	10.7	11.118	88.9
36	39	13C5-PFNA	468.2 > 422.9	1.21e4	1.57e4	1.0000	0.830	4.75	4.67	9.64	11.609	92.9
37	40	13C8-PFOSA	506.1 > 77.7	3.48e3	1.56e4	1.0000	0.262	4.81	4.73	2.80	10.665	85.3
38	41	13C8-PFOS	507.0 > 79.9	3.71e3	4.10e3	1.0000	0.880	4.83	4.75	11.3	12.836	102.7
39	42	13C2-PFDA	515.1 > 469.9	9.57e3	8.39e3	1.0000	0.995	5.11	5.04	14.3	14.330	114.6
40	43	13C2-8:2 FTS	529.1 > 508.7	2.15e3	1.63e4	1.0000	0.142	5.09	5.01	1.65	11.609	92.9
41	44	d3-N-MeFOSAA	573.3 > 419	5.82e3	1.56e4	1.0000	0.376	5.26	5.18	4.67	12.443	99.5
42	45	d5-N-EiFOSAA	589.3 > 419	6.50e3	1.56e4	1.0000	0.444	5.42	5.34	5.23	11.785	94.3
43	46	13C2-PFUdA	565 > 519.8	1.43e4	1.56e4	1.0000	0.889	5.43	5.36	11.5	12.971	103.8
44	47	13C2-PFDoA	615.0 > 569.7	7.06e3	1.56e4	1.0000	0.542	5.70	5.64	5.67	10.461	83.7
45	48	d3-N-MeFOSA	515.2 > 168.9	1.88e4	1.56e4	1.0000	0.117	5.80	5.80	15.1	129.362	86.2
46	49	13C2-PFTeDA	714.8 > 669.6	2.45e3	1.56e4	1.0000	0.230	6.16	6.11	1.97	8.534	68.3
47	50	d5-N-ETFOSA	531.1 > 168.9	2.89e4	1.56e4	1.0000	0.170	6.16	6.19	23.2	136.655	91.1
48	51	13C2-PFHxDA	815 > 769.7	2.01e3	1.56e4	1.0000	0.432	6.48	6.44	1.61	3.733	74.7
49	52	d7-N-MeFOSE	623.1 > 58.9	2.80e4	1.56e4	1.0000	0.161	6.30	6.31	22.5	139.407	92.9
50	53	d9-N-EiFOSE	639.2 > 58.8	2.90e4	1.56e4	1.0000	0.158	6.42	6.46	23.3	148.189	98.8
51	54	13C4-PFBA	217. > 171.8	1.31e4	1.31e4	1.0000	1.000	1.47	1.37	12.5	12.500	100.0
52	55	13C5-PFHxA	318 > 272.9	1.63e4	1.63e4	1.0000	1.000	3.20	3.10	12.5	12.500	100.0
53	56	13C3-PFHxS	401.9 > 79.9	4.10e3	4.10e3	1.0000	1.000	3.95	3.86	12.5	12.500	100.0
54	57	13C8-PFOA	421.3 > 376	1.42e4	1.42e4	1.0000	1.000	4.32	4.23	12.5	12.500	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.57e4	1.57e4	1.0000	1.000	4.75	4.67	12.5	12.500	100.0
56	59	13C4-PFOS	503 > 79.9	4.10e3	4.10e3	1.0000	1.000	4.83	4.75	12.5	12.500	100.0
57	60	13C6-PFDA	519.1 > 473.7	8.39e3	8.39e3	1.0000	1.000	5.11	5.04	12.5	12.500	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.56e4	1.56e4	1.0000	1.000	5.43	5.36	12.5	12.500	100.0

50-150

Dataset: Untitled

Last Altered: Friday, January 05, 2018 08:19:47 Pacific Standard Time

Printed: Friday, January 05, 2018 08:20:30 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180103M3_1	ST180103M3-1 PFC CS0 17L2608	04-Jan-18	06:22:45
2	180103M3_2	IPA	04-Jan-18	06:33:54
3	180103M3_3	1701827-01 IR03-EB01-113017 0.24852	04-Jan-18	06:45:04
4	180103M3_4	B7L0092-MS1@40X Matrix Spike 16.49	04-Jan-18	06:56:15
5	180103M3_5	B7L0092-MSD1@40X Matrix Spike Dup 16.11	04-Jan-18	07:07:26
6	180103M3_6	1701841-01@40X OF-SLG01-1217 17.61	04-Jan-18	07:18:37
7	180103M3_7	1701841-02@40X OF-SLG02-1217 10.1	04-Jan-18	07:29:47
8	180103M3_8	1701841-03@40X OF-SLG02P-1217 6.48	04-Jan-18	07:40:58
9	180103M3_9	1701841-04@40X OF-SLG03-1217 11.57	04-Jan-18	07:52:08
10	180103M3_10	1701841-05@40X OF-SLG04-1217 5.07	04-Jan-18	08:03:19
11	180103M3_11	1701899-01 WT1712051145JM 0.25897	04-Jan-18	08:14:30
12	180103M3_12	1701899-02 WT1712051200JM 0.23198	04-Jan-18	08:25:40
13	180103M3_13	1701899-03 WR1712051300JM 0.26153	04-Jan-18	08:36:51
14	180103M3_14	1701899-04 WT1712051315JM 0.26777	04-Jan-18	08:48:02
15	180103M3_15	IPA	04-Jan-18	08:59:13
16	180103M3_16	ST180103M3-2 PFC CS3 17L2611	04-Jan-18	09:10:24
17	180103M3_17	IPA	04-Jan-18	09:21:34
18	180103M3_18	1701899-05 WT1712051335JM 0.26758	04-Jan-18	09:32:45
19	180103M3_19	1701899-06 WT1712051400JM 0.26538	04-Jan-18	09:43:55
20	180103M3_20	1701899-07 WT1712051410JM 0.25127	04-Jan-18	09:55:06
21	180103M3_21	1701899-08 WT1712051425JM 0.26218	04-Jan-18	10:06:17
22	180103M3_22	1701899-09 WT1712051440JM 0.26087	04-Jan-18	10:17:37
23	180103M3_23	1701899-10 WT1712051500JM 0.25605	04-Jan-18	10:28:55
24	180103M3_24	1701899-11 WT1712051510JM 0.26385	04-Jan-18	10:40:06
25	180103M3_25	1701899-12 WT1712051530JM 0.25998	04-Jan-18	10:51:16
26	180103M3_26	1701899-13 WR1712051600JM 0.25784	04-Jan-18	11:02:27
27	180103M3_27	1701899-14 WT1712051620JM 0.26501	04-Jan-18	11:13:37
28	180103M3_28	B7L0167-BS1 OPR 0.25	04-Jan-18	11:24:48
29	180103M3_29	IPA	04-Jan-18	11:35:58
30	180103M3_30	B7L0167-BLK1 Method Blank 0.25	04-Jan-18	11:47:10
31	180103M3_31	IPA	04-Jan-18	11:58:20



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Friday, January 05, 2018 08:19:47 Pacific Standard Time

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## Compound name: PFBA

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32	180103M3_32	ST180103M3-3 PFC CS3 17L2611	04-Jan-18	12:09:31
33	180103M3_33	IPA	04-Jan-18	12:20:42
34	180103M3_34	1701899-15 WT1712051640JM 0.25701	04-Jan-18	12:31:52
35	180103M3_35	1701899-16 WT1712051700JM 0.25912	04-Jan-18	12:43:03
36	180103M3_36	1701899-17 WT1712051735JM 0.24772	04-Jan-18	12:54:14
37	180103M3_37	1701899-18 WR1712060820JM 0.25514	04-Jan-18	13:05:24
38	180103M3_38	1701899-19 WR1712060825JM 0.25916	04-Jan-18	13:19:19
39	180103M3_39	1701899-20 WT1712060845JM 0.26063	04-Jan-18	13:30:29
40	180103M3_40	1701827-01 IR03-EB01-113017 0.24852	04-Jan-18	13:41:38
41	180103M3_41	IPA	04-Jan-18	13:52:49
42	180103M3_42	ST180103M3-4 PFC CS3 17L2611	04-Jan-18	14:04:01
43	180103M3_43	IPA	04-Jan-18	14:15:11
44	180103M3_44	B7L0092-MS1@40X Matrix Spike 16.49	04-Jan-18	14:26:22
45	180103M3_45	B7L0092-MSD1@40X Matrix Spike Dup 16.11	04-Jan-18	14:37:33
46	180103M3_46	1701841-01@40X OF-SLG01-1217 17.61	04-Jan-18	14:48:43
47	180103M3_47	1701841-02@40X OF-SLG02-1217 10.1	04-Jan-18	14:59:54
48	180103M3_48	1701841-03@40X OF-SLG02P-1217 6.48	04-Jan-18	15:11:05
49	180103M3_49	1701841-04@40X OF-SLG03-1217 11.57	04-Jan-18	15:22:18
50	180103M3_50	IPA	04-Jan-18	15:33:26
51	180103M3_51	ST180103M3-5 PFC CS3 17L2611	04-Jan-18	15:44:37
52	180103M3_52	IPA	04-Jan-18	15:55:48

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Last Altered: Thursday, January 04, 2018 12:54:12 Pacific Standard Time

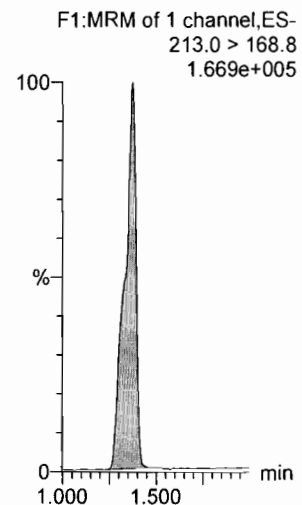
Printed: Thursday, January 04, 2018 12:54:32 Pacific Standard Time

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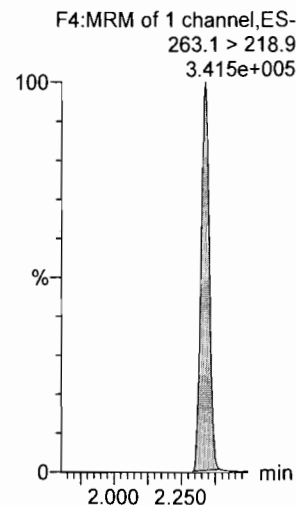
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

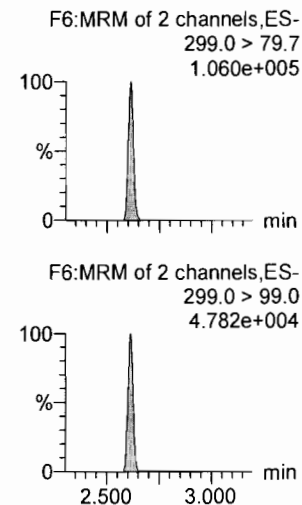
**PFBA**



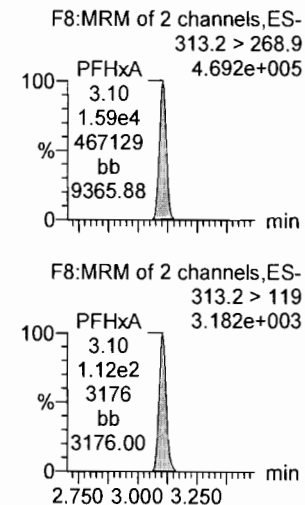
**PFPeA**



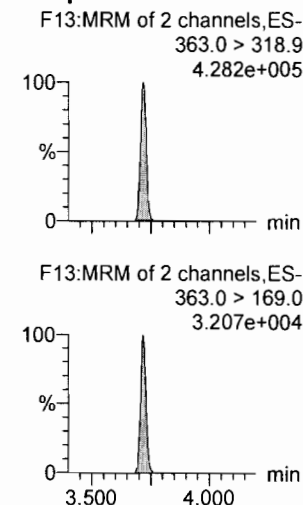
**PFBS**



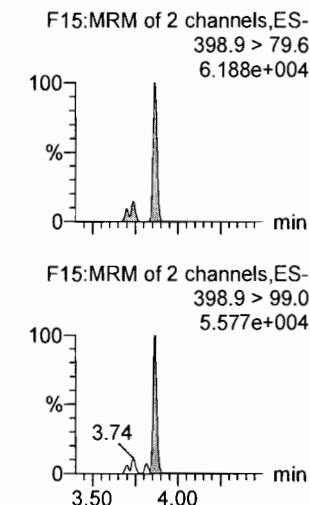
**PFHxA**



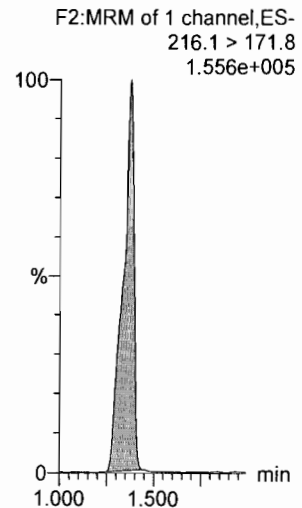
**PFHpA**



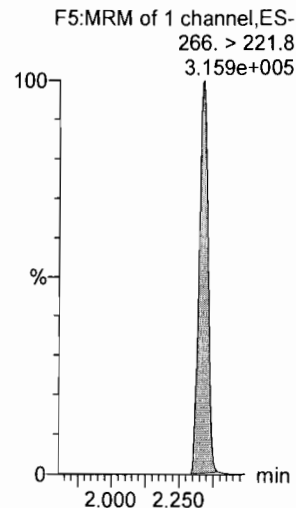
**L-PFHxS**



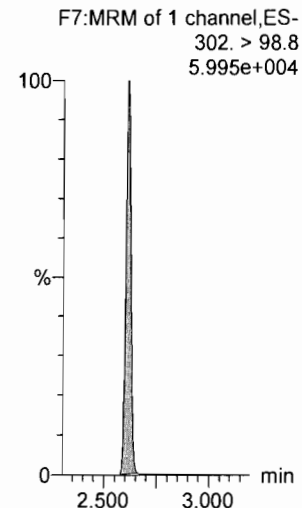
**13C3-PFBA**



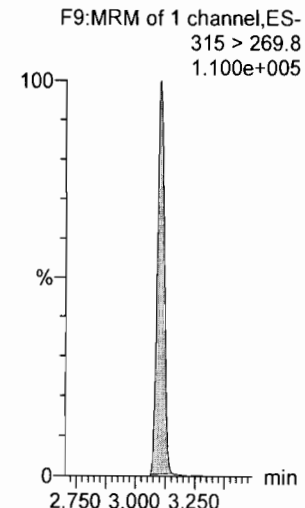
**13C3-PFPeA**



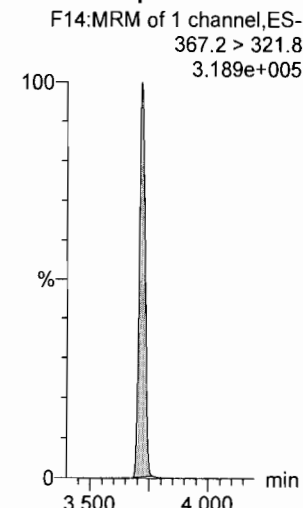
**13C3-PFBS**



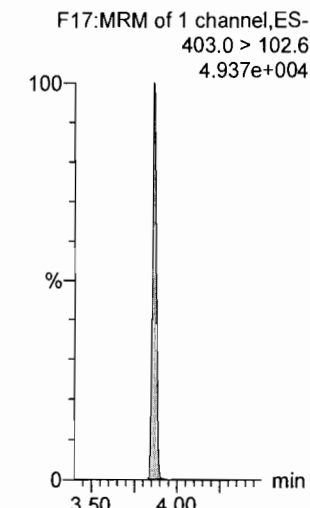
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



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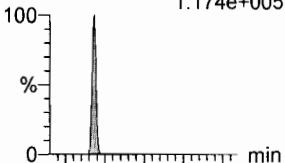
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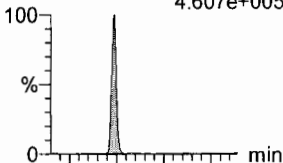
**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.174e+005



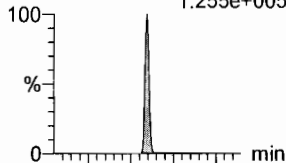
**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.607e+005



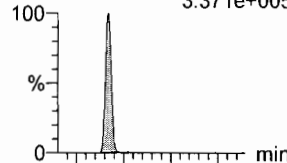
**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
1.255e+005



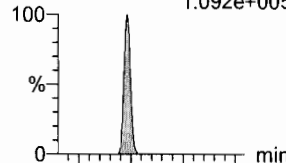
**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
3.371e+005



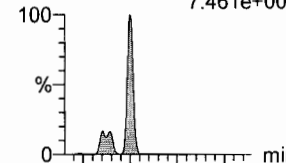
**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.092e+005

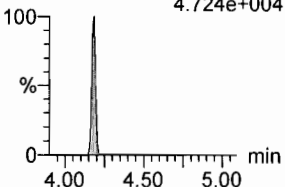


**L-PFOS**

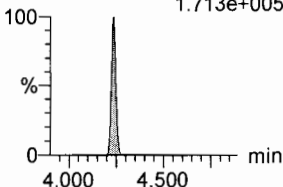
F29:MRM of 2 channels,ES-  
499 > 79.9  
7.461e+004



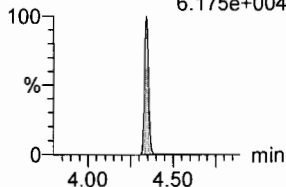
F21:MRM of 2 channels,ES-  
427.1 > 80  
4.724e+004



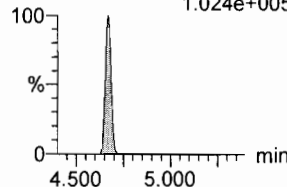
F18:MRM of 2 channels,ES-  
413 > 169  
1.713e+005



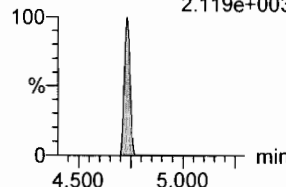
F23:MRM of 2 channels,ES-  
449 > 98.7  
6.175e+004



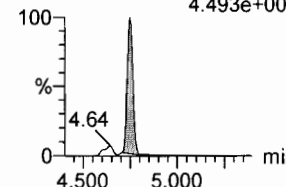
F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.024e+005



F27:MRM of 2 channels,ES-  
498.1 > 478  
2.119e+003

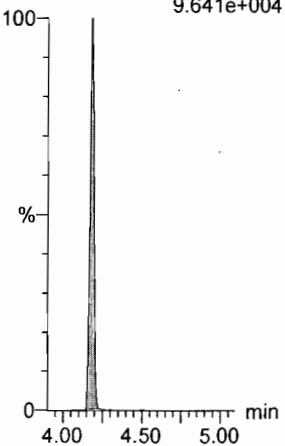


F29:MRM of 2 channels,ES-  
499 > 99  
4.493e+004



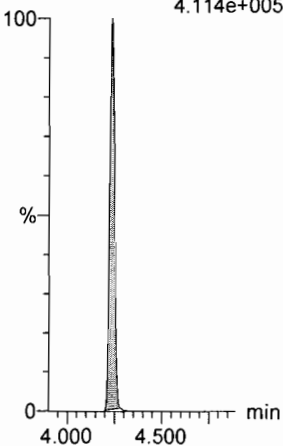
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
9.641e+004



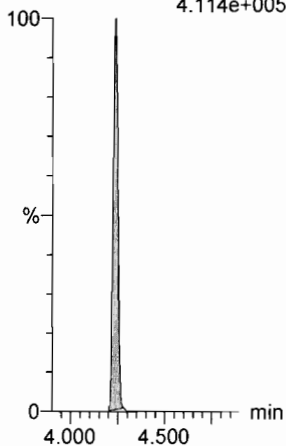
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.114e+005



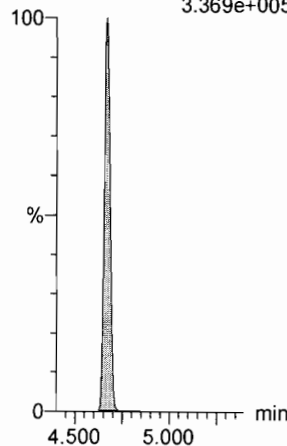
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.114e+005



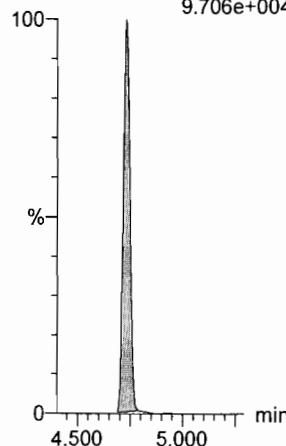
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.369e+005



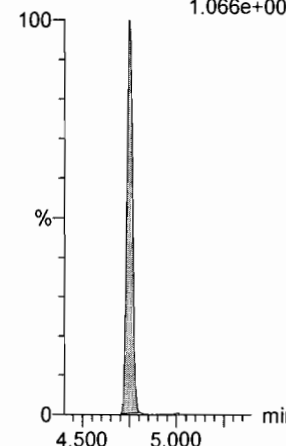
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
9.706e+004



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
1.066e+005



Dataset: U:\Q4.PRO\results\180103M3\180103M3-16.qld

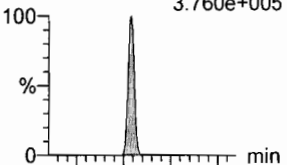
Last Altered: Thursday, January 04, 2018 12:54:12 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:54:32 Pacific Standard Time

Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

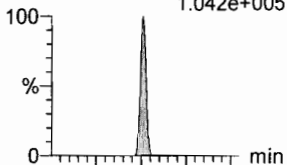
**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
3.760e+005



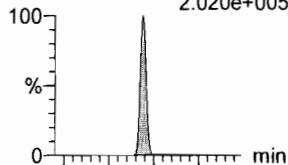
**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
1.042e+005



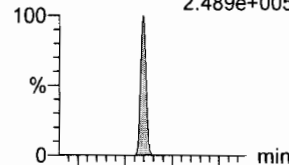
**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
2.020e+005



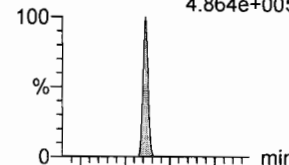
**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
2.489e+005



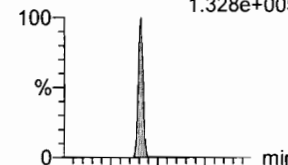
**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
4.864e+005

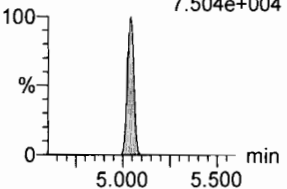


**PFDS**

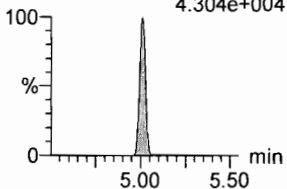
F49:MRM of 2 channels,ES-  
598.8 > 80  
1.328e+005



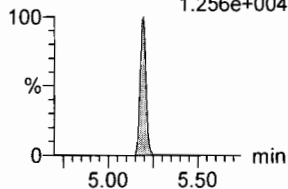
F34:MRM of 2 channels,ES-  
513 > 219  
7.504e+004



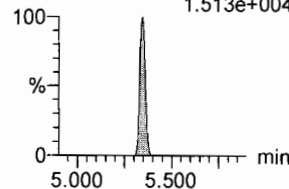
F39:MRM of 2 channels,ES-  
527 > 80  
4.304e+004



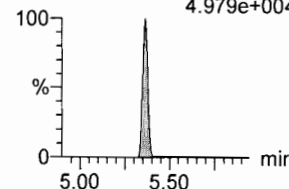
F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.256e+004



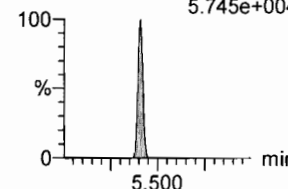
F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.513e+004



F42:MRM of 2 channels,ES-  
563.0 > 269  
4.979e+004

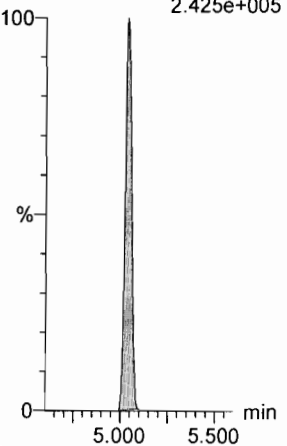


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
5.745e+004



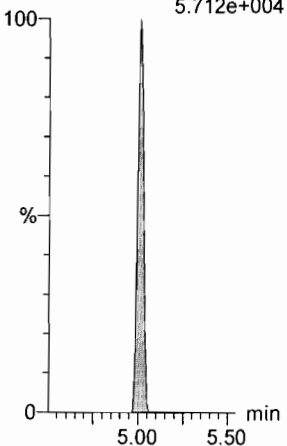
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.425e+005



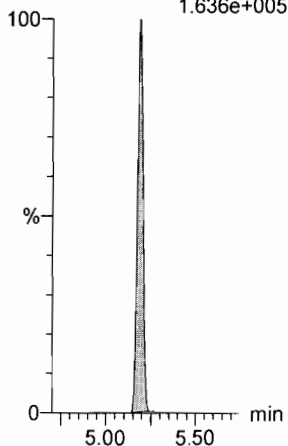
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
5.712e+004



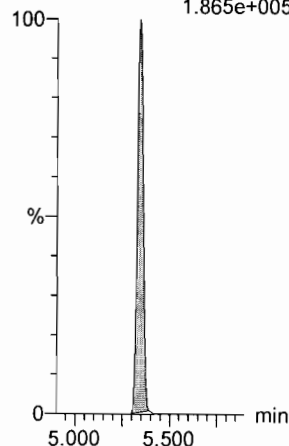
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.636e+005



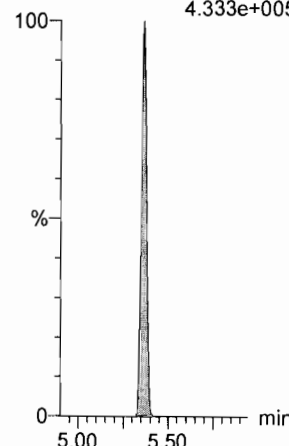
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.865e+005



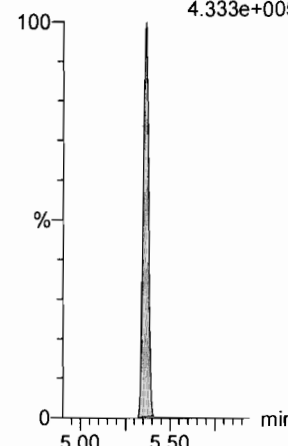
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
4.333e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
4.333e+005



Dataset: U:\Q4.PRO\results\180103M3\180103M3-16.qld

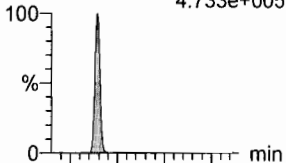
Last Altered: Thursday, January 04, 2018 12:54:12 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:54:32 Pacific Standard Time

Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

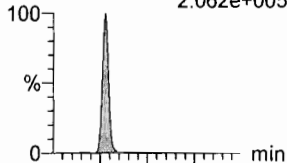
**PFDoA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
4.733e+005



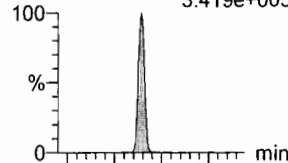
**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.062e+005



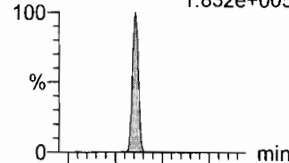
**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
3.419e+005



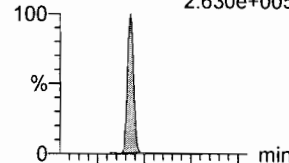
**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
1.832e+005



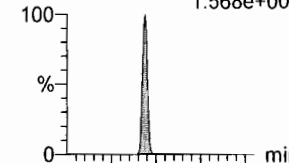
**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.630e+005

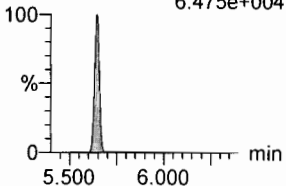


**PFHxDA**

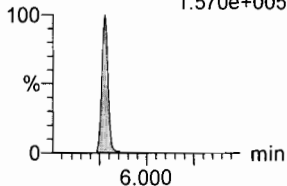
F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.568e+005



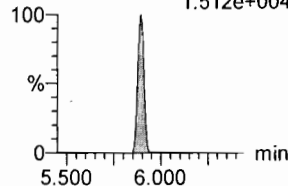
F50:MRM of 2 channels,ES-  
612.9 > 318.8  
6.475e+004



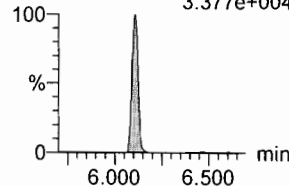
F33:MRM of 2 channels,ES-  
512.1 > 219  
1.570e+005



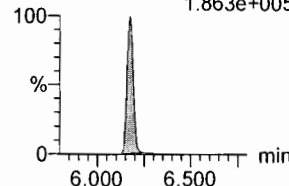
F56:MRM of 2 channels,ES-  
662.9 > 319  
1.512e+004



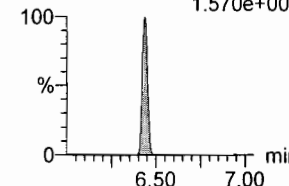
F57:MRM of 2 channels,ES-  
712.9 > 369  
3.377e+004



F38:MRM of 2 channels,ES-  
526.1 > 219  
1.863e+005

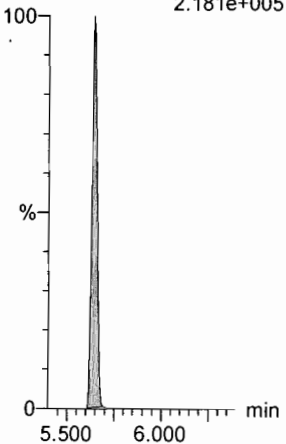


F59:MRM of 2 channels,ES-  
813.1 > 219  
1.570e+004



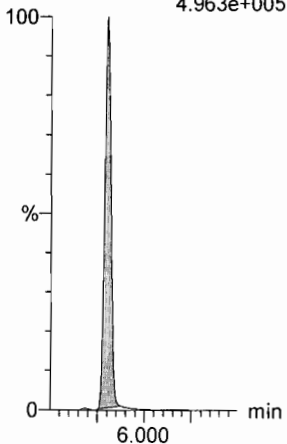
**13C2-PFDoA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.181e+005



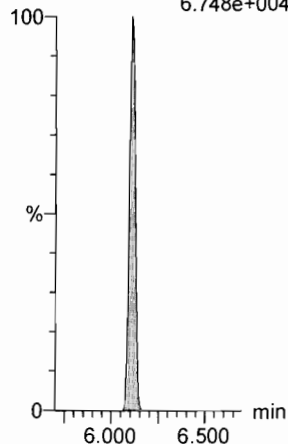
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
4.963e+005



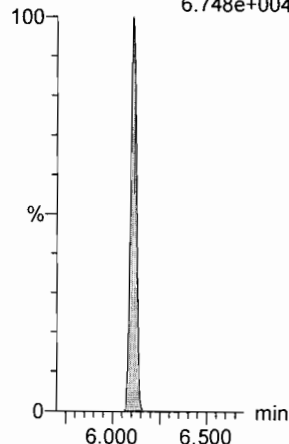
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
6.748e+004



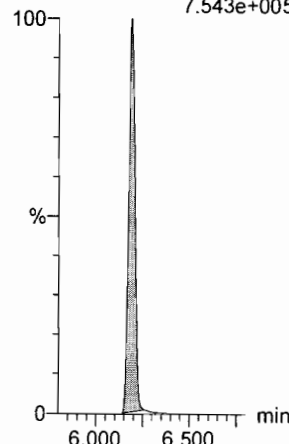
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
6.748e+004



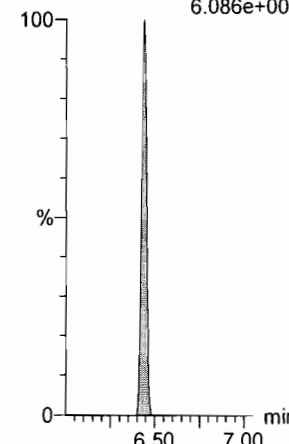
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
7.543e+005



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
6.086e+004



Dataset: U:\Q4.PRO\results\180103M3\180103M3-16.qld

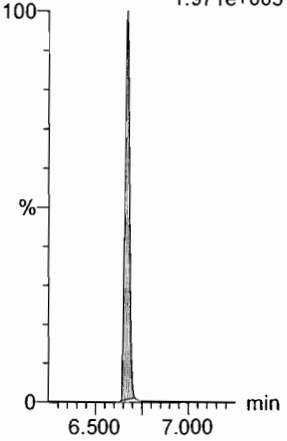
Last Altered: Thursday, January 04, 2018 12:54:12 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:54:32 Pacific Standard Time

Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

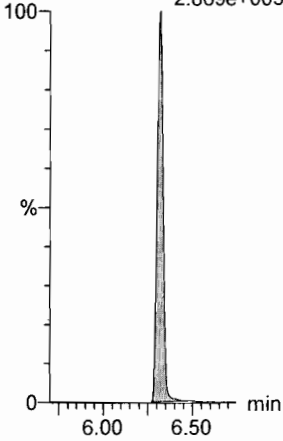
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
1.971e+005



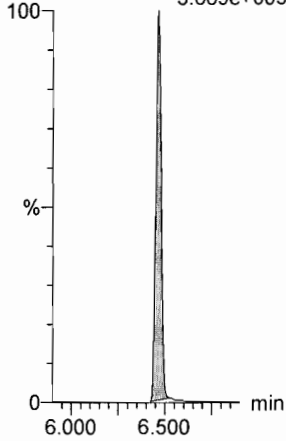
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.869e+005



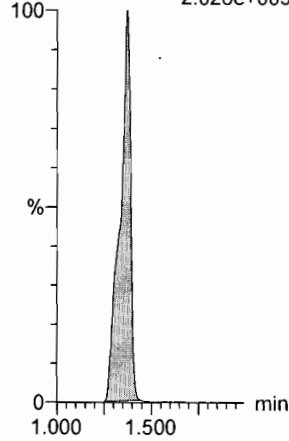
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
3.669e+005



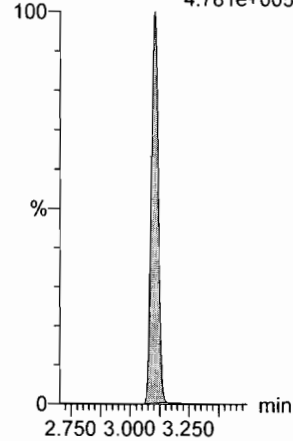
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
2.026e+005



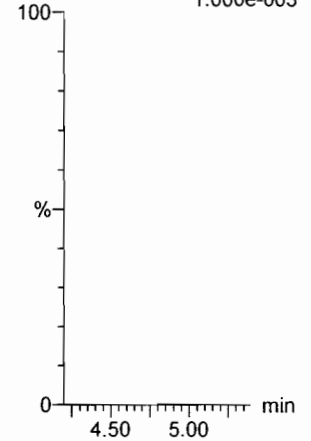
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
4.781e+005



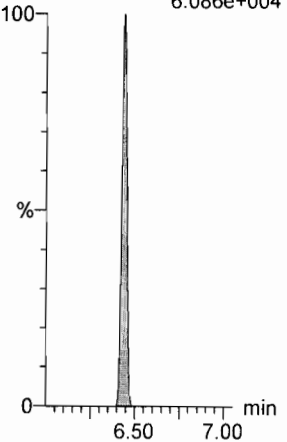
**TCDA**

F28:MRM of 3 channels,ES-  
-  
498.3 > 106.9  
1.000e-003



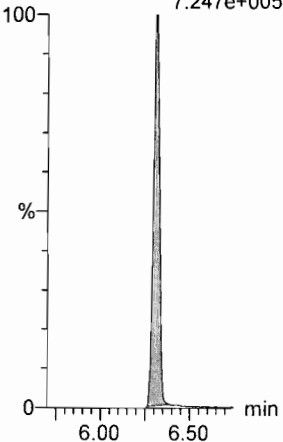
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
6.086e+004



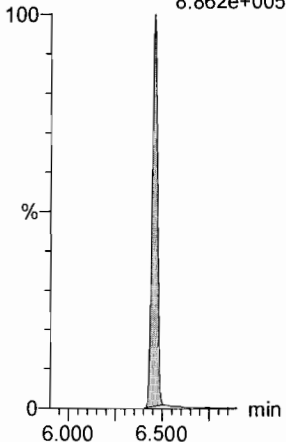
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
7.247e+005



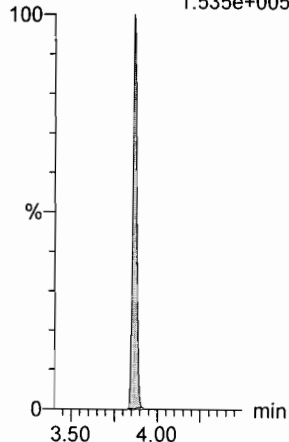
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
8.862e+005



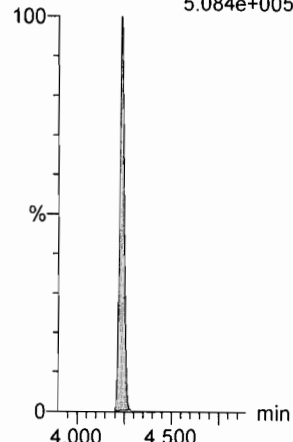
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
1.535e+005



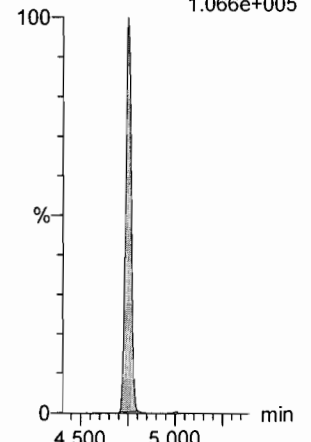
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
5.084e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
1.066e+005



Dataset: U:\Q4.PRO\results\180103M3\180103M3-16.qld

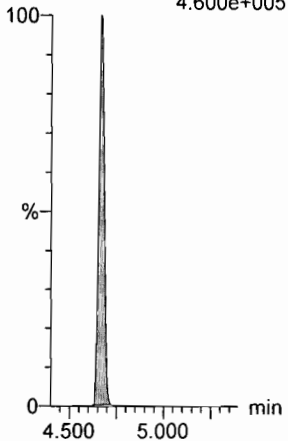
Last Altered: Thursday, January 04, 2018 12:54:12 Pacific Standard Time

Printed: Thursday, January 04, 2018 12:54:32 Pacific Standard Time

Name: 180103M3\_16, Date: 04-Jan-2018, Time: 09:10:24, ID: ST180103M3-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

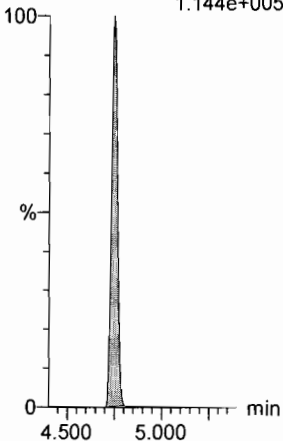
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
4.600e+005



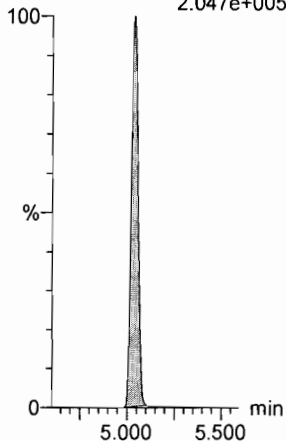
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
1.144e+005



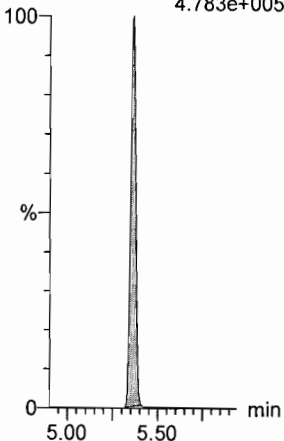
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.047e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
4.783e+005



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



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time  
 Printed: Tuesday, December 26, 2017 14:45:33 Pacific Standard Time

-6:2 uses BCL - PFDA  
 -8:2 uses BCL - PFDA  
 -PFT-DA uses BCL-PFT-DA

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 10:08:34  
 Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

**Compound name: PFBA**

Correlation coefficient:  $r = 0.999898$ ,  $r^2 = 0.999796$

Calibration curve:  $1.2162 * x + -0.0497286$

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

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

*12/26/17*  
*JA 12/26/2017*

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171224M1_3	Standard	0.500	1.47	1115.382	23709.014	0.588	0.5	4.9	NO	1.000	NO	bb
2	171224M1_4	Standard	1.000	1.47	915.145	10489.774	1.091	0.9	-6.2	NO	1.000	NO	bb
3	171224M1_5	Standard	2.000	1.47	1912.482	10537.619	2.269	1.9	-4.7	NO	1.000	NO	bb
4	171224M1_6	Standard	5.000	1.47	4508.656	9287.774	6.068	5.0	0.6	NO	1.000	NO	bb
5	171224M1_7	Standard	10.000	1.47	9995.770	10064.961	12.414	10.2	2.5	NO	1.000	NO	bb
6	171224M1_8	Standard	50.000	1.47	45346.113	9653.088	58.720	48.3	-3.4	NO	1.000	NO	bb
7	171224M1_9	Standard	100.000	1.47	94161.742	9944.933	118.354	97.4	-2.6	NO	1.000	NO	bb
8	171224M1_10	Standard	250.000	1.47	231522.516	9529.157	303.703	249.8	-0.1	NO	1.000	NO	bb
9	171224M1_11	Standard	500.000	1.47	451943.375	9209.453	613.423	504.4	0.9	NO	1.000	NO	bb

**Compound name: PFPeA**

Correlation coefficient:  $r = 0.999943$ ,  $r^2 = 0.999886$

Calibration curve:  $1.07922 * x + -0.0200015$

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	171224M1_3	Standard	0.500	2.44	1379.265	31695.000	0.544	0.5	4.5	NO	1.000	NO	bb
2	171224M1_4	Standard	1.000	2.44	1103.337	13627.499	1.012	1.0	-4.4	NO	1.000	NO	bb
3	171224M1_5	Standard	2.000	2.44	2201.079	13542.714	2.032	1.9	-4.9	NO	1.000	NO	bb
4	171224M1_6	Standard	5.000	2.44	5353.247	12055.214	5.551	5.2	3.2	NO	1.000	NO	bb
5	171224M1_7	Standard	10.000	2.44	11810.079	13787.864	10.707	9.9	-0.6	NO	1.000	NO	bb
6	171224M1_8	Standard	50.000	2.44	54634.066	12340.145	55.342	51.3	2.6	NO	1.000	NO	bb
7	171224M1_9	Standard	100.000	2.44	106801.359	12482.205	106.954	99.1	-0.9	NO	1.000	NO	bb
8	171224M1_10	Standard	250.000	2.44	248031.844	11370.422	272.672	252.7	1.1	NO	1.000	NO	bb
9	171224M1_11	Standard	500.000	2.44	463888.000	10812.905	536.267	496.9	-0.6	NO	1.000	NO	bb

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time  
 Printed: Tuesday, December 26, 2017 14:45:33 Pacific Standard Time

**Compound name: PFBS**

Correlation coefficient:  $r = 0.999522$ ,  $r^2 = 0.999043$

Calibration curve:  $2.11171 * x + 0.0397539$

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 171224M1_3	Standard	0.500	2.71	320.648	3705.145	1.082	0.5	-1.3	NO	0.999	NO	bb
2	2 171224M1_4	Standard	1.000	2.71	245.356	1710.339	1.793	0.8	-17.0	NO	0.999	NO	bb
3	3 171224M1_5	Standard	2.000	2.71	587.404	1633.196	4.496	2.1	5.5	NO	0.999	NO	bb
4	4 171224M1_6	Standard	5.000	2.71	1386.572	1671.138	10.371	4.9	-2.1	NO	0.999	NO	bb
5	5 171224M1_7	Standard	10.000	2.71	3066.581	1653.483	23.183	11.0	9.6	NO	0.999	NO	bb
6	6 171224M1_8	Standard	50.000	2.71	14089.127	1557.788	113.054	53.5	7.0	NO	0.999	NO	bb
7	7 171224M1_9	Standard	100.000	2.71	26713.615	1629.394	204.935	97.0	-3.0	NO	0.999	NO	bb
8	8 171224M1_10	Standard	250.000	2.71	63613.633	1461.446	544.098	257.6	3.1	NO	0.999	NO	bb
9	9 171224M1_11	Standard	500.000	2.71	107043.266	1290.356	1036.955	491.0	-1.8	NO	0.999	NO	bb

**Compound name: PFHxA**

Correlation coefficient:  $r = 0.999619$ ,  $r^2 = 0.999237$

Calibration curve:  $1.4505 * x + 0.120209$

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 171224M1_3	Standard	0.500	3.20	1735.421	10843.652	0.800	0.5	-6.2	NO	0.999	NO	bb
2	2 171224M1_4	Standard	1.000	3.20	1519.469	5035.146	1.509	1.0	-4.3	NO	0.999	NO	bb
3	3 171224M1_5	Standard	2.000	3.20	2702.162	4331.717	3.119	2.1	3.4	NO	0.999	NO	bb
4	4 171224M1_6	Standard	5.000	3.20	6819.132	4350.599	7.837	5.3	6.4	NO	0.999	NO	bb
5	5 171224M1_7	Standard	10.000	3.20	13951.492	4604.419	15.150	10.4	3.6	NO	0.999	NO	bb
6	6 171224M1_8	Standard	50.000	3.20	65218.352	4385.108	74.363	51.2	2.4	NO	0.999	NO	bb
7	7 171224M1_9	Standard	100.000	3.20	131440.703	4723.769	139.127	95.8	-4.2	NO	0.999	NO	bb
8	8 171224M1_10	Standard	250.000	3.20	318159.531	4525.882	351.489	242.2	-3.1	NO	0.999	NO	bb
9	9 171224M1_11	Standard	500.000	3.20	600533.625	4057.806	739.973	510.1	2.0	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time  
 Printed: Tuesday, December 26, 2017 14:45:33 Pacific Standard Time

**Compound name: PFHpA**

Correlation coefficient:  $r = 0.999296$ ,  $r^2 = 0.998592$

Calibration curve:  $1.55722 * x + -0.220525$

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 171224M1_3	Standard	0.500	3.81	1278.936	20304.072	0.787	0.6	29.4	NO	0.999	NO	MM
2	2 171224M1_4	Standard	1.000	3.81	992.726	9581.803	1.295	1.0	-2.7	NO	0.999	NO	MM
3	3 171224M1_5	Standard	2.000	3.81	2046.176	9512.941	2.689	1.9	-6.6	NO	0.999	NO	bb
4	4 171224M1_6	Standard	5.000	3.81	4953.206	8204.773	7.546	5.0	-0.2	NO	0.999	NO	bb
5	5 171224M1_7	Standard	10.000	3.81	11299.715	10393.195	13.590	8.9	-11.3	NO	0.999	NO	bb
6	6 171224M1_8	Standard	50.000	3.81	50943.602	9062.967	70.263	45.3	-9.5	NO	0.999	NO	bb
7	7 171224M1_9	Standard	100.000	3.81	99818.297	8294.617	150.426	96.7	-3.3	NO	0.999	NO	bb
8	8 171224M1_10	Standard	250.000	3.81	247210.219	7595.547	406.834	261.4	4.6	NO	0.999	NO	bb
9	9 171224M1_11	Standard	500.000	3.81	448274.313	7231.245	774.891	497.8	-0.4	NO	0.999	NO	bb

**Compound name: L-PFHxS**

Correlation coefficient:  $r = 0.998617$ ,  $r^2 = 0.997237$

Calibration curve:  $2.24931 * x + 0.0687211$

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 171224M1_3	Standard	0.500	3.95	318.340	3601.725	1.105	0.5	-7.9	NO	0.997	NO	MM
2	2 171224M1_4	Standard	1.000	3.95	239.461	1323.878	2.261	1.0	-2.5	NO	0.997	NO	MM
3	3 171224M1_5	Standard	2.000	3.95	479.160	1279.499	4.681	2.1	2.5	NO	0.997	NO	MM
4	4 171224M1_6	Standard	5.000	3.95	1085.374	1174.813	11.548	5.1	2.1	NO	0.997	NO	MM
5	5 171224M1_7	Standard	10.000	3.95	2685.301	1291.184	25.996	11.5	15.3	NO	0.997	NO	MM
6	6 171224M1_8	Standard	50.000	3.95	11522.165	1277.727	112.721	50.1	0.2	NO	0.997	NO	MM
7	7 171224M1_9	Standard	100.000	3.95	23883.375	1444.815	206.630	91.8	-8.2	NO	0.997	NO	MM
8	8 171224M1_10	Standard	250.000	3.95	56415.852	1327.052	531.402	236.2	-5.5	NO	0.997	NO	MM
9	9 171224M1_11	Standard	500.000	3.95	103821.250	1108.955	1170.260	520.2	4.0	NO	0.997	NO	MM

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**Compound name: 6:2 FTS**

Coefficient of Determination:  $R^2 = 0.999475$

Calibration curve:  $0.000101954 * x^2 + 0.218862 * x + -0.0116435$

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 171224M1_3	Standard	0.500	4.26	285.680	34001.406	0.105	0.5	6.6	NO	0.999	NO	MM
2	2 171224M1_4	Standard	1.000	4.26	195.436	14890.310	0.164	0.8	-19.7	NO	0.999	NO	MM
3	3 171224M1_5	Standard	2.000	4.27	508.480	14425.752	0.441	2.1	3.2	NO	0.999	NO	bb
4	4 171224M1_6	Standard	5.000	4.26	1234.170	12745.062	1.210	5.6	11.4	NO	0.999	NO	bb
5	5 171224M1_7	Standard	10.000	4.26	2455.177	13681.153	2.243	10.3	2.5	NO	0.999	NO	bb
6	6 171224M1_8	Standard	50.000	4.26	11758.877	13369.306	10.994	49.2	-1.7	NO	0.999	NO	bb
7	7 171224M1_9	Standard	100.000	4.26	22840.539	13085.330	21.819	95.5	-4.5	NO	0.999	NO	bb
8	8 171224M1_10	Standard	250.000	4.27	60678.039	12072.262	62.828	256.5	2.6	NO	0.999	NO	bb
9	9 171224M1_11	Standard	500.000	4.26	109903.172	10232.043	134.263	498.0	-0.4	NO	0.999	NO	bb

**Compound name: L-PFOA**

Correlation coefficient:  $r = 0.996068$ ,  $r^2 = 0.992151$

Calibration curve:  $1.13485 * x + -0.068056$

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 171224M1_3	Standard	0.500	4.32	1758.638	34001.406	0.647	0.6	25.9	NO	0.992	NO	MM
2	2 171224M1_4	Standard	1.000	4.32	1286.938	14890.310	1.080	1.0	1.2	NO	0.992	NO	bb
3	3 171224M1_5	Standard	2.000	4.32	2661.580	14425.752	2.306	2.1	4.6	NO	0.992	NO	bb
4	4 171224M1_6	Standard	5.000	4.32	5596.477	12745.062	5.489	4.9	-2.1	NO	0.992	NO	bb
5	5 171224M1_7	Standard	10.000	4.32	11468.740	13681.153	10.479	9.3	-7.1	NO	0.992	NO	bb
6	6 171224M1_8	Standard	50.000	4.32	51806.422	13369.306	48.438	42.7	-14.5	NO	0.992	NO	bb
7	7 171224M1_9	Standard	100.000	4.32	111947.859	13085.330	106.940	94.3	-5.7	NO	0.992	NO	bb
8	8 171224M1_10	Standard	250.000	4.32	246050.688	12072.262	254.769	224.6	-10.2	NO	0.992	NO	bb
9	9 171224M1_11	Standard	500.000	4.32	500636.250	10232.043	611.603	539.0	7.8	NO	0.992	NO	bb

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**Compound name: PFHpS**

Coefficient of Determination: R<sup>2</sup> = 0.999306

Calibration curve:  $9.14308e-006 * x^2 + 0.25284 * x + -0.0204317$

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 171224M1_3	Standard	0.500	4.43	338.241	34001.406	0.124	0.6	14.5	NO	0.999	NO	bb
2	2 171224M1_4	Standard	1.000	4.43	287.283	14890.310	0.241	1.0	3.5	NO	0.999	NO	bb
3	3 171224M1_5	Standard	2.000	4.42	481.858	14425.752	0.418	1.7	-13.4	NO	0.999	NO	bb
4	4 171224M1_6	Standard	5.000	4.42	1135.204	12745.062	1.113	4.5	-10.3	NO	0.999	NO	bb
5	5 171224M1_7	Standard	10.000	4.42	2722.473	13681.153	2.487	9.9	-0.8	NO	0.999	NO	bb
6	6 171224M1_8	Standard	50.000	4.42	14605.086	13369.306	13.655	54.0	8.0	NO	0.999	NO	bb
7	7 171224M1_9	Standard	100.000	4.42	26754.881	13085.330	25.558	100.8	0.8	NO	0.999	NO	bb
8	8 171224M1_10	Standard	250.000	4.43	59876.258	12072.262	61.998	243.1	-2.7	NO	0.999	NO	bb
9	9 171224M1_11	Standard	500.000	4.42	105944.383	10232.043	129.427	502.8	0.6	NO	0.999	NO	bb

**Compound name: PFNA**

Coefficient of Determination: R<sup>2</sup> = 0.991312

Calibration curve:  $-5.39384e-005 * x^2 + 1.48033 * x + -0.0881933$

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 171224M1_3	Standard	0.500	4.75	1643.007	29677.770	0.692	0.5	5.4	NO	0.991	NO	bb
2	2 171224M1_4	Standard	1.000	4.75	1551.673	13399.244	1.448	1.0	3.7	NO	0.991	NO	bb
3	3 171224M1_5	Standard	2.000	4.75	2403.163	10867.964	2.764	1.9	-3.7	NO	0.991	NO	bb
4	4 171224M1_6	Standard	5.000	4.75	5697.819	10646.092	6.690	4.6	-8.4	NO	0.991	NO	bb
5	5 171224M1_7	Standard	10.000	4.75	14362.721	10571.037	16.984	11.5	15.4	NO	0.991	NO	bb
6	6 171224M1_8	Standard	50.000	4.75	59735.074	10580.686	70.571	47.8	-4.4	NO	0.991	NO	bb
7	7 171224M1_9	Standard	100.000	4.75	114254.500	11835.854	120.666	81.8	-18.2	NO	0.991	NO	bb
8	8 171224M1_10	Standard	250.000	4.75	296026.500	8981.209	412.008	281.3	12.5	NO	0.991	NO	bb
9	9 171224M1_11	Standard	500.000	4.75	495849.063	8735.493	709.532	488.0	-2.4	NO	0.991	NO	bb

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**Compound name: PFOSA**

Correlation coefficient:  $r = 0.997209$ ,  $r^2 = 0.994426$

Calibration curve:  $0.925471 * x + 0.232387$

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 171224M1_3	Standard	0.500	4.80	411.145	9218.410	0.558	0.4	-29.7	NO	0.994	NO	MM
2	2 171224M1_4	Standard	1.000	4.80	444.911	3903.470	1.425	1.3	28.8	NO	0.994	NO	MM
3	3 171224M1_5	Standard	2.000	4.80	771.403	4972.877	1.939	1.8	-7.8	NO	0.994	NO	MM
4	4 171224M1_6	Standard	5.000	4.80	1652.604	4101.686	5.036	5.2	3.8	NO	0.994	NO	bb
5	5 171224M1_7	Standard	10.000	4.80	3718.666	4888.771	9.508	10.0	0.2	NO	0.994	NO	MM
6	6 171224M1_8	Standard	50.000	4.80	17474.709	4283.288	50.997	54.9	9.7	NO	0.994	NO	bb
7	7 171224M1_9	Standard	100.000	4.80	32330.713	4586.906	88.106	95.0	-5.0	NO	0.994	NO	bb
8	8 171224M1_10	Standard	250.000	4.80	84048.375	3497.316	300.403	324.3	29.7	NO	0.994	NO	bbX
9	9 171224M1_11	Standard	500.000	4.80	156734.344	3322.905	589.598	636.8	27.4	NO	0.994	NO	bbX

**Compound name: L-PFOS**

Coefficient of Determination:  $R^2 = 0.998922$

Calibration curve:  $0.000179303 * x^2 + 1.12135 * x + -0.0439045$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	0.500	4.83	383.307	8583.573	0.558	0.5	7.4	NO	0.999	NO	MM
2	2 171224M1_4	Standard	1.000	4.83	331.316	3747.344	1.105	1.0	2.5	NO	0.999	NO	MM
3	3 171224M1_5	Standard	2.000	4.83	541.767	3628.200	1.867	1.7	-14.8	NO	0.999	NO	MM
4	4 171224M1_6	Standard	5.000	4.83	1318.763	3055.646	5.395	4.8	-3.1	NO	0.999	NO	MM
5	5 171224M1_7	Standard	10.000	4.83	3539.549	3731.959	11.856	10.6	5.9	NO	0.999	NO	MM
6	6 171224M1_8	Standard	50.000	4.83	15937.878	3985.493	49.987	44.3	-11.4	NO	0.999	NO	MM
7	7 171224M1_9	Standard	100.000	4.83	31745.061	3298.549	120.299	105.5	5.5	NO	0.999	NO	MM
8	8 171224M1_10	Standard	250.000	4.83	76718.594	3278.973	292.464	250.8	0.3	NO	0.999	NO	MM
9	9 171224M1_11	Standard	500.000	4.83	133373.094	2758.709	604.327	499.1	-0.2	NO	0.999	NO	MM

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**Compound name: PFDA**

Coefficient of Determination: R^2 = 0.999156  
 Calibration curve:  $-6.56116e-005 * x^2 + 1.35938 * x + -0.0151289$   
 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	171224M1_3	Standard	0.500	5.11	1633.076	30599.391	0.667	0.5	0.4	NO	0.999	NO	bb
2	171224M1_4	Standard	1.000	5.11	1490.508	14143.654	1.317	1.0	-2.0	NO	0.999	NO	bb
3	171224M1_5	Standard	2.000	5.11	2509.347	12071.148	2.598	1.9	-3.9	NO	0.999	NO	bb
4	171224M1_6	Standard	5.000	5.11	6441.016	11650.155	6.911	5.1	1.9	NO	0.999	NO	bb
5	171224M1_7	Standard	10.000	5.11	13021.145	11784.131	13.812	10.2	1.8	NO	0.999	NO	bb
6	171224M1_8	Standard	50.000	5.11	62553.832	11710.883	66.769	49.2	-1.5	NO	0.999	NO	bb
7	171224M1_9	Standard	100.000	5.11	130122.094	11324.296	143.632	106.2	6.2	NO	0.999	NO	bb
8	171224M1_10	Standard	250.000	5.11	279955.781	10810.406	323.711	240.9	-3.6	NO	0.999	NO	bb
9	171224M1_11	Standard	500.000	5.11	508163.594	9513.261	667.704	503.4	0.7	NO	0.999	NO	bb

**Compound name: 8:2 FTS**

Coefficient of Determination: R^2 = 0.997132  
 Calibration curve:  $2.5566e-005 * x^2 + 0.254649 * x + 0.00699792$   
 Response type: Internal Std ( Ref 42 ), Area \* ( IS Conc. / IS Area )  
 Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171224M1_3	Standard	0.500	5.08	319.632	30599.391	0.131	0.5	-3.0	NO	0.997	NO	bb
2	171224M1_4	Standard	1.000	5.09	248.925	14143.654	0.220	0.8	-16.4	NO	0.997	NO	MM
3	171224M1_5	Standard	2.000	5.09	393.035	12071.148	0.407	1.6	-21.5	NO	0.997	NO	bb
4	171224M1_6	Standard	5.000	5.08	1418.463	11650.155	1.522	5.9	18.9	NO	0.997	NO	bb
5	171224M1_7	Standard	10.000	5.09	2966.592	11784.131	3.147	12.3	23.1	NO	0.997	NO	bb
6	171224M1_8	Standard	50.000	5.09	13695.685	11710.883	14.619	57.1	14.1	NO	0.997	NO	bb
7	171224M1_9	Standard	100.000	5.08	21130.652	11324.296	23.324	90.7	-9.3	NO	0.997	NO	bb
8	171224M1_10	Standard	250.000	5.09	55797.223	10810.406	64.518	247.2	-1.1	NO	0.997	NO	bb
9	171224M1_11	Standard	500.000	5.09	102273.430	9513.261	134.383	502.4	0.5	NO	0.997	NO	bb

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**Compound name: N-MeFOSAA**

Coefficient of Determination: R<sup>2</sup> = 0.997845

Calibration curve:  $-0.00719827 * x^2 + 2.07991 * x + -0.13385$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	171224M1_3	Standard	0.500	5.26	813.590	11051.779	0.920	0.5	1.5	NO	0.998	NO	MM
2	171224M1_4	Standard	1.000	5.26	702.024	4789.903	1.832	0.9	-5.2	NO	0.998	NO	MM
3	171224M1_5	Standard	2.000	5.26	1434.485	4525.262	3.962	2.0	-0.8	NO	0.998	NO	bb
4	171224M1_6	Standard	5.000	5.26	3530.808	4478.956	9.854	4.9	-2.3	NO	0.998	NO	MM
5	171224M1_7	Standard	10.000	5.26	6791.656	4713.996	18.009	9.0	-10.0	NO	0.998	NO	bb
6	171224M1_8	Standard	50.000	5.26	32969.359	4577.077	90.039	53.1	6.2	NO	0.998	NO	bb
7	171224M1_9	Standard	100.000	5.26	54189.969	5055.245	133.994	97.2	-2.8	NO	0.998	NO	MM
8	171224M1_10	Standard	250.000	5.26	158917.531	3815.867	520.581			NO	0.998	NO	MMXI
9	171224M1_11	Standard	500.000	5.26	263873.375	3408.709	967.644			NO	0.998	NO	bbXI

**Compound name: N-EtFOSAA**

Coefficient of Determination: R<sup>2</sup> = 0.995681

Calibration curve:  $-0.000577785 * x^2 + 1.30576 * x + -0.0738799$

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	171224M1_3	Standard	0.500	5.41	543.804	11848.089	0.574	0.5	-0.8	NO	0.996	NO	bb
2	171224M1_4	Standard	1.000	5.42	471.289	5212.718	1.130	0.9	-7.8	NO	0.996	NO	bb
3	171224M1_5	Standard	2.000	5.42	1068.631	4949.941	2.699	2.1	6.3	NO	0.996	NO	bb
4	171224M1_6	Standard	5.000	5.42	2186.686	5578.999	4.899	3.8	-23.7	NO	0.996	NO	bb
5	171224M1_7	Standard	10.000	5.42	4738.685	4113.057	14.401	11.1	11.4	NO	0.996	NO	bb
6	171224M1_8	Standard	50.000	5.41	23381.393	4069.272	71.823	56.5	12.9	NO	0.996	NO	bb
7	171224M1_9	Standard	100.000	5.42	45754.715	5226.013	109.440	87.2	-12.8	NO	0.996	NO	bb
8	171224M1_10	Standard	250.000	5.41	102367.914	4261.628	300.261	259.9	4.0	NO	0.996	NO	bb
9	171224M1_11	Standard	500.000	5.41	160315.438	3963.539	505.594	496.2	-0.8	NO	0.996	NO	bb



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**Compound name: PFUDa**

Coefficient of Determination: R^2 = 0.996033

Calibration curve:  $-8.75501e-005 * x^2 + 1.06032 * x + -0.00819795$

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	171224M1_3	Standard	0.500	5.43	1079.787	31494.980	0.429	0.4	-17.6	NO	0.996	NO	bb
2	171224M1_4	Standard	1.000	5.43	1097.941	13333.449	1.029	1.0	-2.1	NO	0.996	NO	bb
3	171224M1_5	Standard	2.000	5.43	2359.038	13861.189	2.127	2.0	0.7	NO	0.996	NO	bb
4	171224M1_6	Standard	5.000	5.43	5024.140	12470.404	5.036	4.8	-4.8	NO	0.996	NO	bb
5	171224M1_7	Standard	10.000	5.43	13472.967	14338.153	11.746	11.1	11.0	NO	0.996	NO	bb
6	171224M1_8	Standard	50.000	5.43	61448.035	12069.227	63.641	60.3	20.7	NO	0.996	NO	bb
7	171224M1_9	Standard	100.000	5.43	102537.750	12552.313	102.110	97.1	-2.9	NO	0.996	NO	bb
8	171224M1_10	Standard	250.000	5.43	239206.281	12286.534	243.362	234.0	-6.4	NO	0.996	NO	bb
9	171224M1_11	Standard	500.000	5.43	461639.313	11185.572	515.887	507.8	1.6	NO	0.996	NO	bb

**Compound name: PFDS**

Coefficient of Determination: R^2 = 0.992031

Calibration curve:  $-0.00015825 * x^2 + 0.31788 * x + -0.00152343$

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	171224M1_3	Standard	0.500	5.48	389.305	31494.980	0.155	0.5	-1.8	NO	0.992	NO	MM
2	171224M1_4	Standard	1.000	5.48	393.417	13333.449	0.369	1.2	16.6	NO	0.992	NO	MM
3	171224M1_5	Standard	2.000	5.48	749.679	13861.189	0.676	2.1	6.7	NO	0.992	NO	MM
4	171224M1_6	Standard	5.000	5.47	1679.820	12470.404	1.684	5.3	6.3	NO	0.992	NO	bb
5	171224M1_7	Standard	10.000	5.47	3110.506	14338.153	2.712	8.6	-14.3	NO	0.992	NO	bb
6	171224M1_8	Standard	50.000	5.47	12720.233	12069.227	13.174	42.3	-15.3	NO	0.992	NO	bb
7	171224M1_9	Standard	100.000	5.47	27987.479	12552.313	27.871	91.9	-8.1	NO	0.992	NO	bb
8	171224M1_10	Standard	250.000	5.47	76659.320	12286.534	77.991	286.1	14.4	NO	0.992	NO	bb
9	171224M1_11	Standard	500.000	5.47	103690.898	11185.572	115.876	478.5	-4.3	NO	0.992	NO	bb

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**Compound name: PFDoA**

Coefficient of Determination:  $R^2 = 0.996507$

Calibration curve:  $-0.000671127 * x^2 + 2.10673 * x + 0.0095916$

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 171224M1_3	Standard	0.500	5.71	1509.744	17972.541	1.050	0.5	-1.2	NO	0.997	NO	bd
2	2 171224M1_4	Standard	1.000	5.70	1288.532	8305.517	1.939	0.9	-8.4	NO	0.997	NO	MM
3	3 171224M1_5	Standard	2.000	5.71	2518.724	8158.581	3.859	1.8	-8.6	NO	0.997	NO	MM
4	4 171224M1_6	Standard	5.000	5.70	5853.163	6401.049	11.430	5.4	8.6	NO	0.997	NO	bb
5	5 171224M1_7	Standard	10.000	5.70	13085.739	6738.084	24.276	11.6	15.6	NO	0.997	NO	bb
6	6 171224M1_8	Standard	50.000	5.70	53436.801	7473.654	89.375	43.0	-14.0	NO	0.997	NO	MM
7	7 171224M1_9	Standard	100.000	5.70	114680.125	6361.931	225.325	110.9	10.9	NO	0.997	NO	bb
8	8 171224M1_10	Standard	250.000	5.70	287311.188	7654.026	469.216	241.3	-3.5	NO	0.997	NO	bb
9	9 171224M1_11	Standard	500.000	5.70	477980.594	6709.856	890.445	503.4	0.7	NO	0.997	NO	bb

**Compound name: N-MeFOSA**

Correlation coefficient:  $r = 0.998804$ ,  $r^2 = 0.997610$

Calibration curve:  $1.0243 * x + 0.690193$

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 171224M1_3	Standard	2.500	5.76	903.334	45190.828	2.998	2.3	-9.9	NO	0.998	NO	bb
2	2 171224M1_4	Standard	5.000	5.77	795.924	20824.051	5.733	4.9	-1.5	NO	0.998	NO	bb
3	3 171224M1_5	Standard	10.000	5.76	1502.999	20700.303	10.891	10.0	-0.4	NO	0.998	NO	bb
4	4 171224M1_6	Standard	25.000	5.76	3664.403	19572.281	28.084	26.7	7.0	NO	0.998	NO	bb
5	5 171224M1_7	Standard	50.000	5.76	8101.228	19779.932	61.435	59.3	18.6	NO	0.998	NO	bb
6	6 171224M1_8	Standard	250.000	5.76	36921.758	19994.699	276.987	269.7	7.9	NO	0.998	NO	bb
7	7 171224M1_9	Standard	500.000	5.76	73155.117	20162.396	544.244	530.7	6.1	NO	0.998	NO	bb
8	8 171224M1_10	Standard	1250.000	5.76	166383.516	18881.295	1321.812	1289.8	3.2	NO	0.998	NO	bb
9	9 171224M1_11	Standard	2500.000	5.77	303617.094	18527.340	2458.128	2399.1	-4.0	NO	0.998	NO	bb

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**Compound name: PFTrDA**

Correlation coefficient:  $r = 0.997548$ ,  $r^2 = 0.995103$

Calibration curve:  $2.41244 * x + 0.359662$

Response type: Internal Std ( Ref 49 ), 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 171224M1_3	Standard	0.500	5.95	1698.514	16242.069	1.307	0.4	-21.4	NO	0.995	NO	MM
2	2 171224M1_4	Standard	1.000	5.95	1598.873	7968.185	2.508	0.9	-10.9	NO	0.995	NO	MM
3	3 171224M1_5	Standard	2.000	5.95	2660.159	6998.692	4.751	1.8	-9.0	NO	0.995	NO	MM
4	4 171224M1_6	Standard	5.000	5.94	7398.329	5846.743	15.817	6.4	28.1	NO	0.995	NO	MM
5	5 171224M1_7	Standard	10.000	5.94	16150.463	7142.618	28.264	11.6	15.7	NO	0.995	NO	MM
6	6 171224M1_8	Standard	50.000	5.94	49280.840	5078.948	121.287	50.1	0.3	NO	0.995	NO	MM
7	7 171224M1_9	Standard	100.000	5.95	121531.242	6462.278	235.078	97.3	-2.7	NO	0.995	NO	bb
8	8 171224M1_10	Standard	250.000	5.95	295348.594	5379.588	686.271	284.3	13.7	NO	0.995	NO	bbX
9	9 171224M1_11	Standard	500.000	5.95	517097.156	5364.510	1204.903	499.3	-0.1	NO	0.995	NO	bbX

**Compound name: PFTeDA**

Coefficient of Determination:  $R^2 = 0.995370$

Calibration curve:  $-0.000738038 * x^2 + 1.86465 * x + 0.00606828$

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 171224M1_3	Standard	0.500	6.16	1062.445	16242.069	0.818	0.4	-12.9	NO	0.995	NO	bb
2	2 171224M1_4	Standard	1.000	6.16	1048.734	7968.185	1.645	0.9	-12.1	NO	0.995	NO	MM
3	3 171224M1_5	Standard	2.000	6.16	1948.355	6998.692	3.480	1.9	-6.8	NO	0.995	NO	MM
4	4 171224M1_6	Standard	5.000	6.16	4862.605	5846.743	10.396	5.6	11.7	NO	0.995	NO	bb
5	5 171224M1_7	Standard	10.000	6.16	12367.228	7142.618	21.643	11.7	16.6	NO	0.995	NO	bb
6	6 171224M1_8	Standard	50.000	6.16	42821.465	5078.948	105.390	57.8	15.7	NO	0.995	NO	bb
7	7 171224M1_9	Standard	100.000	6.16	80542.094	6462.278	155.793	86.5	-13.5	NO	0.995	NO	bb
8	8 171224M1_10	Standard	250.000	6.16	182976.125	5379.588	425.163	253.4	1.4	NO	0.995	NO	db
9	9 171224M1_11	Standard	500.000	6.16	321205.750	5364.510	748.451	500.6	0.1	NO	0.995	NO	db

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**Compound name: N-EtFOSA**

Coefficient of Determination: R<sup>2</sup> = 0.999744

Calibration curve: -3.51418e-005 \* x<sup>2</sup> + 0.970092 \* x + -0.171197

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 171224M1_3	Standard	2.500	6.15	1136.105	67842.914	2.512	2.8	10.6	NO	1.000	NO	bb
2	2 171224M1_4	Standard	5.000	6.15	939.302	31646.094	4.452	4.8	-4.7	NO	1.000	NO	bb
3	3 171224M1_5	Standard	10.000	6.15	1956.441	32830.766	8.939	9.4	-6.1	NO	1.000	NO	bb
4	4 171224M1_6	Standard	25.000	6.15	4817.352	30334.521	23.821	24.8	-1.0	NO	1.000	NO	bb
5	5 171224M1_7	Standard	50.000	6.15	10366.939	31023.332	50.125	51.9	3.9	NO	1.000	NO	bb
6	6 171224M1_8	Standard	250.000	6.15	45749.270	29292.637	234.270	243.8	-2.5	NO	1.000	NO	bb
7	7 171224M1_9	Standard	500.000	6.15	88441.453	28431.283	466.606	489.9	-2.0	NO	1.000	NO	bb
8	8 171224M1_10	Standard	1250.000	6.15	201066.641	25533.473	1181.194	1276.8	2.1	NO	1.000	NO	bb
9	9 171224M1_11	Standard	2500.000	6.15	334414.438	22842.049	2196.045	2488.2	-0.5	NO	1.000	NO	bb

**Compound name: PFHxDA**

Coefficient of Determination: R<sup>2</sup> = 0.997934

Calibration curve: -0.000413371 \* x<sup>2</sup> + 0.603676 \* x + 0.10836

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 171224M1_3	Standard	0.500	6.48	605.291	9134.064	0.331	0.4	-26.1	NO	0.998	NO	bb
2	2 171224M1_4	Standard	1.000	6.48	591.565	4698.475	0.630	0.9	-13.6	NO	0.998	NO	bb
3	3 171224M1_5	Standard	2.000	6.48	1261.988	4319.116	1.461	2.2	12.2	NO	0.998	NO	bb
4	4 171224M1_6	Standard	5.000	6.48	2301.113	3082.656	3.732	6.0	20.6	NO	0.998	NO	bb
5	5 171224M1_7	Standard	10.000	6.48	5119.760	3865.164	6.623	10.9	8.7	NO	0.998	NO	bb
6	6 171224M1_8	Standard	50.000	6.48	21833.838	3631.574	30.061	51.4	2.9	NO	0.998	NO	bb
7	7 171224M1_9	Standard	100.000	6.48	38952.609	3643.153	53.460	94.5	-5.5	NO	0.998	NO	bb
8	8 171224M1_10	Standard	250.000	6.48	98946.680	3921.781	126.150	252.4	1.0	NO	0.998	NO	bb
9	9 171224M1_11	Standard	500.000	6.48	174572.359	3471.386	251.445			NO	0.998	NO	bbXI

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**Compound name: PFODA**

Coefficient of Determination: R<sup>2</sup> = 0.999739

Calibration curve:  $-9.55471e-005 * x^2 + 0.71766 * x + 0.0397523$

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 171224M1_3	Standard	0.500	6.70	746.946	9134.064	0.409	0.5	2.9	NO	1.000	NO	MM
2	2 171224M1_4	Standard	1.000	6.70	646.245	4698.475	0.688	0.9	-9.7	NO	1.000	NO	MM
3	3 171224M1_5	Standard	2.000	6.70	1282.951	4319.116	1.485	2.0	0.7	NO	1.000	NO	MM
4	4 171224M1_6	Standard	5.000	6.70	2581.897	3082.656	4.188	5.8	15.7	NO	1.000	NO	MM
5	5 171224M1_7	Standard	10.000	6.70	5722.745	3865.164	7.403	10.3	2.7	NO	1.000	NO	bb
6	6 171224M1_8	Standard	50.000	6.70	25431.285	3631.574	35.014	49.1	-1.9	NO	1.000	NO	bb
7	7 171224M1_9	Standard	100.000	6.70	52386.961	3643.153	71.898	101.5	1.5	NO	1.000	NO	bb
8	8 171224M1_10	Standard	250.000	6.70	134605.219	3921.781	171.612	247.2	-1.1	NO	1.000	NO	bb
9	9 171224M1_11	Standard	500.000	6.70	233114.891	3471.386	335.766	501.3	0.3	NO	1.000	NO	bb

**Compound name: N-MeFOSE**

Correlation coefficient: r = 0.995709, r<sup>2</sup> = 0.991436

Calibration curve:  $1.06085 * x + 0.164172$

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 171224M1_3	Standard	2.500	6.30	1090.997	64156.219	2.551	2.2	-10.0	NO	0.991	NO	MM
2	2 171224M1_4	Standard	5.000	6.30	1077.742	30075.984	5.375	4.9	-1.8	NO	0.991	NO	bb
3	3 171224M1_5	Standard	10.000	6.30	2011.649	32529.256	9.276	8.6	-14.1	NO	0.991	NO	bb
4	4 171224M1_6	Standard	25.000	6.30	4283.421	25252.615	25.443	23.8	-4.7	NO	0.991	NO	MM
5	5 171224M1_7	Standard	50.000	6.30	10895.774	26145.916	62.509	58.8	17.5	NO	0.991	NO	bb
6	6 171224M1_8	Standard	250.000	6.30	50510.262	22409.318	338.098	318.5	27.4	NO	0.991	NO	bb
7	7 171224M1_9	Standard	500.000	6.30	90697.313	27940.629	486.911	458.8	-8.2	NO	0.991	NO	bb
8	8 171224M1_10	Standard	1250.000	6.30	216538.125	27111.525	1198.041	1129.2	-9.7	NO	0.991	NO	bb
9	9 171224M1_11	Standard	2500.000	6.30	474997.219	25953.896	2745.237	2587.6	3.5	NO	0.991	NO	bb

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**Compound name: N-EtFOSE**

Correlation coefficient:  $r = 0.999073$ ,  $r^2 = 0.998147$

Calibration curve:  $1.10522 * x + 0.402241$

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	171224M1_3	Standard	2.500	6.45	1232.945	67081.430	2.757	2.1	-14.8	NO	0.998	NO	bb
2	171224M1_4	Standard	5.000	6.45	1113.520	31812.957	5.250	4.4	-12.3	NO	0.998	NO	bb
3	171224M1_5	Standard	10.000	6.45	2357.458	32839.391	10.768	9.4	-6.2	NO	0.998	NO	bb
4	171224M1_6	Standard	25.000	6.45	4933.305	25169.922	29.400	26.2	4.9	NO	0.998	NO	bb
5	171224M1_7	Standard	50.000	6.45	12108.902	27656.947	65.674	59.1	18.1	NO	0.998	NO	bb
6	171224M1_8	Standard	250.000	6.45	51714.961	27157.924	285.635	258.1	3.2	NO	0.998	NO	bb
7	171224M1_9	Standard	500.000	6.45	102541.789	25425.381	604.957	547.0	9.4	NO	0.998	NO	bb
8	171224M1_10	Standard	1250.000	6.45	235066.594	25457.572	1385.049	1252.8	0.2	NO	0.998	NO	bb
9	171224M1_11	Standard	2500.000	6.45	479944.281	26764.193	2689.849	2433.4	-2.7	NO	0.998	NO	bb

**Compound name: 13C3-PFBA**

Response Factor: 0.894697

RRF SD: 0.0240428, Relative SD: 2.68726

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	171224M1_3	Standard	12.500	1.47	23709.014	26451.861	11.204	12.5	0.2	NO		NO	bb
2	171224M1_4	Standard	12.500	1.47	10489.774	11437.441	11.464	12.8	2.5	NO		NO	bb
3	171224M1_5	Standard	12.500	1.47	10537.619	11706.751	11.252	12.6	0.6	NO		NO	bb
4	171224M1_6	Standard	12.500	1.47	9287.774	9944.285	11.675	13.0	4.4	NO		NO	bb
5	171224M1_7	Standard	12.500	1.47	10064.961	11486.176	10.953	12.2	-2.1	NO		NO	bb
6	171224M1_8	Standard	12.500	1.47	9653.088	11211.347	10.763	12.0	-3.8	NO		NO	bb
7	171224M1_9	Standard	12.500	1.47	9944.933	10894.851	11.410	12.8	2.0	NO		NO	bb
8	171224M1_10	Standard	12.500	1.47	9529.157	10759.889	11.070	12.4	-1.0	NO		NO	bb
9	171224M1_11	Standard	12.500	1.47	9209.453	10597.749	10.863	12.1	-2.9	NO		NO	bb

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**Compound name: 13C3-PFPeA**

Response Factor: 0.867337

RRF SD: 0.0514819, Relative SD: 5.93563

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 171224M1_3	Standard	12.500	2.44	31695.000	38800.668	10.211	11.8	-5.8	NO		NO	bb
2	2 171224M1_4	Standard	12.500	2.44	13627.499	15535.806	10.965	12.6	1.1	NO		NO	bb
3	3 171224M1_5	Standard	12.500	2.44	13542.714	14224.953	11.900	13.7	9.8	NO		NO	bb
4	4 171224M1_6	Standard	12.500	2.44	12055.214	12992.118	11.599	13.4	7.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	2.44	13787.864	15126.663	11.394	13.1	5.1	NO		NO	bb
6	6 171224M1_8	Standard	12.500	2.44	12340.145	14895.888	10.355	11.9	-4.5	NO		NO	bb
7	7 171224M1_9	Standard	12.500	2.44	12482.205	14872.417	10.491	12.1	-3.2	NO		NO	bb
8	8 171224M1_10	Standard	12.500	2.44	11370.422	13889.345	10.233	11.8	-5.6	NO		NO	bb
9	9 171224M1_11	Standard	12.500	2.44	10812.905	12961.691	10.428	12.0	-3.8	NO		NO	bb

**Compound name: 13C3-PFBS**

Response Factor: 0.108582

RRF SD: 0.00951712, Relative SD: 8.76491

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 171224M1_3	Standard	12.500	2.71	3705.145	38800.668	1.194	11.0	-12.1	NO		NO	bb
2	2 171224M1_4	Standard	12.500	2.71	1710.339	15535.806	1.376	12.7	1.4	NO		NO	bb
3	3 171224M1_5	Standard	12.500	2.70	1633.196	14224.953	1.435	13.2	5.7	NO		NO	bb
4	4 171224M1_6	Standard	12.500	2.71	1671.138	12992.118	1.608	14.8	18.5	NO		NO	bb
5	5 171224M1_7	Standard	12.500	2.71	1653.483	15126.663	1.366	12.6	0.7	NO		NO	bb
6	6 171224M1_8	Standard	12.500	2.70	1557.788	14895.888	1.307	12.0	-3.7	NO		NO	bb
7	7 171224M1_9	Standard	12.500	2.71	1629.394	14872.417	1.369	12.6	0.9	NO		NO	bb
8	8 171224M1_10	Standard	12.500	2.70	1461.446	13889.345	1.315	12.1	-3.1	NO		NO	bb
9	9 171224M1_11	Standard	12.500	2.70	1290.356	12961.691	1.244	11.5	-8.3	NO		NO	bb

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**Compound name: 13C2-PFHxA**

Response Factor: 0.777294

RRF SD: 0.0429902, Relative SD: 5.53075

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 171224M1_3	Standard	5.000	3.20	10843.652	38800.668	3.493	4.5	-10.1	NO		NO	bb
2	2 171224M1_4	Standard	5.000	3.20	5035.146	15535.806	4.051	5.2	4.2	NO		NO	bb
3	3 171224M1_5	Standard	5.000	3.20	4331.717	14224.953	3.806	4.9	-2.1	NO		NO	bb
4	4 171224M1_6	Standard	5.000	3.20	4350.599	12992.118	4.186	5.4	7.7	NO		NO	bb
5	5 171224M1_7	Standard	5.000	3.20	4604.419	15126.663	3.805	4.9	-2.1	NO		NO	bb
6	6 171224M1_8	Standard	5.000	3.20	4385.108	14895.888	3.680	4.7	-5.3	NO		NO	bb
7	7 171224M1_9	Standard	5.000	3.20	4723.769	14872.417	3.970	5.1	2.2	NO		NO	bb
8	8 171224M1_10	Standard	5.000	3.20	4525.882	13889.345	4.073	5.2	4.8	NO		NO	bb
9	9 171224M1_11	Standard	5.000	3.20	4057.806	12961.691	3.913	5.0	0.7	NO		NO	bb

**Compound name: 13C4-PFHpA**

Response Factor: 0.59981

RRF SD: 0.0569238, Relative SD: 9.4903

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 171224M1_3	Standard	12.500	3.81	20304.072	38800.668	6.541	10.9	-12.8	NO		NO	MM
2	2 171224M1_4	Standard	12.500	3.81	9581.803	15535.806	7.709	12.9	2.8	NO		NO	bb
3	3 171224M1_5	Standard	12.500	3.81	9512.941	14224.953	8.359	13.9	11.5	NO		NO	bb
4	4 171224M1_6	Standard	12.500	3.81	8204.773	12992.118	7.894	13.2	5.3	NO		NO	bb
5	5 171224M1_7	Standard	12.500	3.81	10393.195	15126.663	8.588	14.3	14.5	NO		NO	bb
6	6 171224M1_8	Standard	12.500	3.81	9062.967	14895.888	7.605	12.7	1.4	NO		NO	bb
7	7 171224M1_9	Standard	12.500	3.81	8294.617	14872.417	6.971	11.6	-7.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	3.81	7595.547	13889.345	6.836	11.4	-8.8	NO		NO	bb
9	9 171224M1_11	Standard	12.500	3.81	7231.245	12961.691	6.974	11.6	-7.0	NO		NO	bb



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**Compound name: 18O2-PFHxS**

Response Factor: 0.444432

RRF SD: 0.0373197, Relative SD: 8.39715

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 171224M1_3	Standard	12.500	3.95	3601.725	7107.785	6.334	14.3	14.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	3.95	1323.878	2883.055	5.740	12.9	3.3	NO		NO	bb
3	3 171224M1_5	Standard	12.500	3.95	1279.499	2841.585	5.628	12.7	1.3	NO		NO	bb
4	4 171224M1_6	Standard	12.500	3.95	1174.813	2710.366	5.418	12.2	-2.5	NO		NO	bb
5	5 171224M1_7	Standard	12.500	3.95	1291.184	3318.858	4.863	10.9	-12.5	NO		NO	bb
6	6 171224M1_8	Standard	12.500	3.95	1277.727	2969.490	5.379	12.1	-3.2	NO		NO	bb
7	7 171224M1_9	Standard	12.500	3.95	1444.815	3118.422	5.791	13.0	4.2	NO		NO	bb
8	8 171224M1_10	Standard	12.500	3.95	1327.052	2806.969	5.910	13.3	6.4	NO		NO	bb
9	9 171224M1_11	Standard	12.500	3.95	1108.955	2808.728	4.935	11.1	-11.2	NO		NO	bb

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

Response Factor: 0.38497

RRF SD: 0.210048, Relative SD: 54.5623

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

Curve type: RF

*Not used*

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	12.500	4.27	6763.798	26413.094	3.201	8.3	-33.5	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.27	3022.143	10982.722	3.440	8.9	-28.5	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.26	3065.051	11691.585	3.277	8.5	-31.9	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.26	2938.784	10643.440	3.451	9.0	-28.3	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.26	2959.863	10767.215	3.436	8.9	-28.6	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.27	3185.642	10836.369	3.675	9.5	-23.6	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.27	4250.743	10792.643	4.923	12.8	2.3	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.27	5578.834	10202.361	6.835	17.8	42.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	4.27	7841.488	8853.827	11.071	28.8	130.1	NO		NO	bb

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**Compound name: 13C2-PFOA**

Response Factor: 1.23668

RRF SD: 0.0606844, Relative SD: 4.90703

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 171224M1_3	Standard	12.500	4.32	34001.406	26413.094	16.091	13.0	4.1	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.32	14890.310	10982.722	16.947	13.7	9.6	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.32	14425.752	11691.585	15.423	12.5	-0.2	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.32	12745.062	10643.440	14.968	12.1	-3.2	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.32	13681.153	10767.215	15.883	12.8	2.7	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.32	13369.306	10836.369	15.422	12.5	-0.2	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.32	13085.330	10792.643	15.155	12.3	-2.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.32	12072.262	10202.361	14.791	12.0	-4.3	NO		NO	bb
9	9 171224M1_11	Standard	12.500	4.32	10232.043	8853.827	14.446	11.7	-6.6	NO		NO	bb

**Compound name: 13C5-PFNA**

Response Factor: 0.911285

RRF SD: 0.0718381, Relative SD: 7.88316

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 171224M1_3	Standard	12.500	4.75	29677.770	29507.516	12.572	13.8	10.4	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.75	13399.244	14195.976	11.798	12.9	3.6	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.75	10867.964	13059.568	10.402	11.4	-8.7	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.75	10646.092	10934.757	12.170	13.4	6.8	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.75	10571.037	12592.888	10.493	11.5	-7.9	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.75	10580.686	12206.837	10.835	11.9	-4.9	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.75	11835.854	12337.297	11.992	13.2	5.3	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.75	8981.209	10996.689	10.209	11.2	-10.4	NO		NO	bb
9	9 171224M1_11	Standard	12.500	4.75	8735.493	9063.306	12.048	13.2	5.8	NO		NO	bb

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**Compound name: 13C8-PFOSA**

Response Factor: 0.400152

RRF SD: 0.0631717, Relative SD: 15.7869

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 171224M1_3	Standard	12.500	4.81	9218.410	26716.656	4.313	10.8	-13.8	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.81	3903.470	12593.369	3.875	9.7	-22.5	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.81	4972.877	10824.027	5.743	14.4	14.8	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.81	4101.686	9724.960	5.272	13.2	5.4	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.81	4888.771	10210.565	5.985	15.0	19.7	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.81	4283.288	11976.635	4.470	11.2	-10.6	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.81	4586.906	10706.407	5.355	13.4	7.1	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.81	3497.316	9016.957	4.848	12.1	-3.1	NO		NO	bbX
9	9 171224M1_11	Standard	12.500	4.81	3322.905	9638.235	4.310	10.8	-13.8	NO		NO	bbX

**Compound name: 13C8-PFOS**

Response Factor: 1.00893

RRF SD: 0.156683, Relative SD: 15.5296

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 171224M1_3	Standard	12.500	4.83	8583.573	8104.169	13.239	13.1	5.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.83	3747.344	3735.470	12.540	12.4	-0.6	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.83	3628.200	3973.234	11.415	11.3	-9.5	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.83	3055.646	3253.069	11.741	11.6	-6.9	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.83	3731.959	3448.394	13.528	13.4	7.3	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.82	3985.493	2885.122	17.267	17.1	36.9	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.83	3298.549	3636.332	11.339	11.2	-10.1	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.83	3278.973	3591.406	11.413	11.3	-9.5	NO		NO	bb
9	9 171224M1_11	Standard	12.500	4.83	2758.709	3128.331	11.023	10.9	-12.6	NO		NO	bb

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**Compound name: 13C2-PFDA**

Response Factor: 1.19534

RRF SD: 0.0934335, Relative SD: 7.81648

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 171224M1_3	Standard	12.500	5.11	30599.391	24857.238	15.388	12.9	3.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.11	14143.654	11105.143	15.920	13.3	6.5	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.11	12071.148	11394.838	13.242	11.1	-11.4	NO		NO	bb
4	4 171224M1_6	Standard	12.500	5.11	11650.155	10883.651	13.380	11.2	-10.5	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.11	11784.131	9450.396	15.587	13.0	4.3	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.11	11710.883	10323.603	14.180	11.9	-5.1	NO		NO	bb
7	7 171224M1_9	Standard	12.500	5.11	11324.296	9572.553	14.787	12.4	-1.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.11	10810.406	8059.830	16.766	14.0	12.2	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.11	9513.261	7810.085	15.226	12.7	1.9	NO		NO	bb

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

Response Factor: 0.168277

RRF SD: 0.104049, Relative SD: 61.8317

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

Curve type: RF

*Not used*

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	12.500	5.09	4072.555	38800.668	1.312	7.8	-37.6	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.09	2046.890	15535.806	1.647	9.8	-21.7	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.09	1534.327	14224.953	1.348	8.0	-35.9	NO		NO	bb
4	4 171224M1_6	Standard	12.500	5.09	1554.948	12992.118	1.496	8.9	-28.9	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.09	1579.665	15126.663	1.305	7.8	-37.9	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.09	1860.566	14895.888	1.561	9.3	-25.8	NO		NO	bb
7	7 171224M1_9	Standard	12.500	5.08	2181.874	14872.417	1.834	10.9	-12.8	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.08	3613.805	13889.345	3.252	19.3	54.6	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.08	5366.267	12961.691	5.175	30.8	146.0	NO		NO	bb

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

Response Factor: 0.418392

RRF SD: 0.0411377, Relative SD: 9.83235

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 171224M1_3	Standard	12.500	5.26	11051.779	26716.656	5.171	12.4	-1.1	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.26	4789.903	12593.369	4.754	11.4	-9.1	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.26	4525.262	10824.027	5.226	12.5	-0.1	NO		NO	MM
4	4 171224M1_6	Standard	12.500	5.26	4478.956	9724.960	5.757	13.8	10.1	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.26	4713.996	10210.565	5.771	13.8	10.3	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.26	4577.077	11976.635	4.777	11.4	-8.7	NO		NO	MM
7	7 171224M1_9	Standard	12.500	5.26	5055.245	10706.407	5.902	14.1	12.9	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.26	3815.867	9016.957	5.290	12.6	1.1	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.26	3408.709	9638.235	4.421	10.6	-15.5	NO		NO	bb

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

Response Factor: 0.444772

RRF SD: 0.065472, Relative SD: 14.7203

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 171224M1_3	Standard	12.500	5.41	11848.089	26716.656	5.543	12.5	-0.3	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.41	5212.718	12593.369	5.174	11.6	-6.9	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.41	4949.941	10824.027	5.716	12.9	2.8	NO		NO	bb
4	4 171224M1_6	Standard	12.500	5.41	5578.999	9724.960	7.171	16.1	29.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.41	4113.057	10210.565	5.035	11.3	-9.4	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.41	4069.272	11976.635	4.247	9.5	-23.6	NO		NO	bb
7	7 171224M1_9	Standard	12.500	5.41	5226.013	10706.407	6.102	13.7	9.7	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.41	4261.628	9016.957	5.908	13.3	6.3	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.41	3963.539	9638.235	5.140	11.6	-7.5	NO		NO	bb

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**Compound name: 13C2-PFUdA**

Response Factor: 1.21201

RRF SD: 0.132197, Relative SD: 10.9073

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 171224M1_3	Standard	12.500	5.43	31494.980	26716.656	14.736	12.2	-2.7	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.43	13333.449	12593.369	13.235	10.9	-12.6	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.43	13861.189	10824.027	16.007	13.2	5.7	NO		NO	bb
4	4 171224M1_6	Standard	12.500	5.43	12470.404	9724.960	16.029	13.2	5.8	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.43	14338.153	10210.565	17.553	14.5	15.9	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.43	12069.227	11976.635	12.597	10.4	-16.9	NO		NO	bb
7	7 171224M1_9	Standard	12.500	5.43	12552.313	10706.407	14.655	12.1	-3.3	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.43	12286.534	9016.957	17.033	14.1	12.4	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.43	11185.572	9638.235	14.507	12.0	-4.2	NO		NO	bb

**Compound name: 13C2-PFDoA**

Response Factor: 0.685261

RRF SD: 0.0756673, Relative SD: 11.0421

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 171224M1_3	Standard	12.500	5.70	17972.541	26716.656	8.409	12.3	-1.8	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.70	8305.517	12593.369	8.244	12.0	-3.8	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.71	8158.581	10824.027	9.422	13.7	10.0	NO		NO	MM
4	4 171224M1_6	Standard	12.500	5.70	6401.049	9724.960	8.228	12.0	-3.9	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.70	6738.084	10210.565	8.249	12.0	-3.7	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.70	7473.654	11976.635	7.800	11.4	-8.9	NO		NO	bd
7	7 171224M1_9	Standard	12.500	5.70	6361.931	10706.407	7.428	10.8	-13.3	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.70	7654.026	9016.957	10.611	15.5	23.9	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.70	6709.856	9638.235	8.702	12.7	1.6	NO		NO	bb

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

Response Factor: 0.155335

RRF SD: 0.0131206, Relative SD: 8.44662

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 171224M1_3	Standard	150.000	5.79	45190.828	26716.656	21.144	136.1	-9.3	NO		NO	bb
2	2 171224M1_4	Standard	150.000	5.79	20824.051	12593.369	20.670	133.1	-11.3	NO		NO	bb
3	3 171224M1_5	Standard	150.000	5.79	20700.303	10824.027	23.906	153.9	2.6	NO		NO	bb
4	4 171224M1_6	Standard	150.000	5.79	19572.281	9724.960	25.157	162.0	8.0	NO		NO	bb
5	5 171224M1_7	Standard	150.000	5.79	19779.932	10210.565	24.215	155.9	3.9	NO		NO	bb
6	6 171224M1_8	Standard	150.000	5.79	19994.699	11976.635	20.868	134.3	-10.4	NO		NO	bb
7	7 171224M1_9	Standard	150.000	5.79	20162.396	10706.407	23.540	151.5	1.0	NO		NO	bb
8	8 171224M1_10	Standard	150.000	5.79	18881.295	9016.957	26.175	168.5	12.3	NO		NO	bb
9	9 171224M1_11	Standard	150.000	5.79	18527.340	9638.235	24.028	154.7	3.1	NO		NO	bb

**Compound name: 13C2-PFTeDA**

Response Factor: 0.596539

RRF SD: 0.0757999, Relative SD: 12.7066

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 171224M1_3	Standard	12.500	6.16	16242.069	26716.656	7.599	12.7	1.9	NO		NO	bb
2	2 171224M1_4	Standard	12.500	6.16	7968.185	12593.369	7.909	13.3	6.1	NO		NO	bb
3	3 171224M1_5	Standard	12.500	6.16	6998.692	10824.027	8.082	13.5	8.4	NO		NO	bb
4	4 171224M1_6	Standard	12.500	6.16	5846.743	9724.960	7.515	12.6	0.8	NO		NO	bb
5	5 171224M1_7	Standard	12.500	6.16	7142.618	10210.565	8.744	14.7	17.3	NO		NO	bb
6	6 171224M1_8	Standard	12.500	6.16	5078.948	11976.635	5.301	8.9	-28.9	NO		NO	MM
7	7 171224M1_9	Standard	12.500	6.16	6462.278	10706.407	7.545	12.6	1.2	NO		NO	bb
8	8 171224M1_10	Standard	12.500	6.16	5379.588	9016.957	7.458	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	6.16	5364.510	9638.235	6.957	11.7	-6.7	NO		NO	bb

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

Response Factor: 0.227278

RRF SD: 0.0237206, Relative SD: 10.4368

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 171224M1_3	Standard	150.000	6.17	67842.914	26716.656	31.742	139.7	-6.9	NO		NO	bb
2	2 171224M1_4	Standard	150.000	6.17	31646.094	12593.369	31.411	138.2	-7.9	NO		NO	bb
3	3 171224M1_5	Standard	150.000	6.17	32830.766	10824.027	37.914	166.8	11.2	NO		NO	bb
4	4 171224M1_6	Standard	150.000	6.16	30334.521	9724.960	38.991	171.6	14.4	NO		NO	bb
5	5 171224M1_7	Standard	150.000	6.17	31023.332	10210.565	37.979	167.1	11.4	NO		NO	bb
6	6 171224M1_8	Standard	150.000	6.17	29292.637	11976.635	30.573	134.5	-10.3	NO		NO	bb
7	7 171224M1_9	Standard	150.000	6.17	28431.283	10706.407	33.194	146.1	-2.6	NO		NO	bb
8	8 171224M1_10	Standard	150.000	6.17	25533.473	9016.957	35.396	155.7	3.8	NO		NO	bb
9	9 171224M1_11	Standard	150.000	6.17	22842.049	9638.235	29.624	130.3	-13.1	NO		NO	bb

**Compound name: 13C2-PFHxDA**

Response Factor: 0.902261

RRF SD: 0.102461, Relative SD: 11.356

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 171224M1_3	Standard	5.000	6.48	9134.064	26716.656	4.274	4.7	-5.3	NO		NO	bb
2	2 171224M1_4	Standard	5.000	6.48	4698.475	12593.369	4.664	5.2	3.4	NO		NO	bb
3	3 171224M1_5	Standard	5.000	6.48	4319.116	10824.027	4.988	5.5	10.6	NO		NO	db
4	4 171224M1_6	Standard	5.000	6.48	3082.656	9724.960	3.962	4.4	-12.2	NO		NO	bb
5	5 171224M1_7	Standard	5.000	6.48	3865.164	10210.565	4.732	5.2	4.9	NO		NO	bb
6	6 171224M1_8	Standard	5.000	6.48	3631.574	11976.635	3.790	4.2	-16.0	NO		NO	bd
7	7 171224M1_9	Standard	5.000	6.48	3643.153	10706.407	4.253	4.7	-5.7	NO		NO	bb
8	8 171224M1_10	Standard	5.000	6.48	3921.781	9016.957	5.437	6.0	20.5	NO		NO	bb
9	9 171224M1_11	Standard	5.000	6.48	3471.386	9638.235	4.502	5.0	-0.2	NO		NO	bb



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

Response Factor: 0.21419

RRF SD: 0.0286807, Relative SD: 13.3903

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 171224M1_3	Standard	150.000	6.29	64156.219	26716.656	30.017	140.1	-6.6	NO		NO	bb
2	2 171224M1_4	Standard	150.000	6.28	30075.984	12593.369	29.853	139.4	-7.1	NO		NO	bb
3	3 171224M1_5	Standard	150.000	6.29	32529.256	10824.027	37.566	175.4	16.9	NO		NO	bb
4	4 171224M1_6	Standard	150.000	6.29	25252.615	9724.960	32.459	151.5	1.0	NO		NO	bb
5	5 171224M1_7	Standard	150.000	6.29	26145.916	10210.565	32.008	149.4	-0.4	NO		NO	bb
6	6 171224M1_8	Standard	150.000	6.28	22409.318	11976.635	23.389	109.2	-27.2	NO		NO	bb
7	7 171224M1_9	Standard	150.000	6.29	27940.629	10706.407	32.621	152.3	1.5	NO		NO	bb
8	8 171224M1_10	Standard	150.000	6.29	27111.525	9016.957	37.584	175.5	17.0	NO		NO	bb
9	9 171224M1_11	Standard	150.000	6.29	25953.896	9638.235	33.660	157.2	4.8	NO		NO	bb

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

Response Factor: 0.218614

RRF SD: 0.0197886, Relative SD: 9.05182

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 171224M1_3	Standard	150.000	6.44	67081.430	26716.656	31.386	143.6	-4.3	NO		NO	bb
2	2 171224M1_4	Standard	150.000	6.44	31812.957	12593.369	31.577	144.4	-3.7	NO		NO	bb
3	3 171224M1_5	Standard	150.000	6.44	32839.391	10824.027	37.924	173.5	15.7	NO		NO	bb
4	4 171224M1_6	Standard	150.000	6.44	25169.922	9724.960	32.352	148.0	-1.3	NO		NO	bb
5	5 171224M1_7	Standard	150.000	6.44	27656.947	10210.565	33.858	154.9	3.3	NO		NO	bb
6	6 171224M1_8	Standard	150.000	6.44	27157.924	11976.635	28.345	129.7	-13.6	NO		NO	bb
7	7 171224M1_9	Standard	150.000	6.44	25425.381	10706.407	29.685	135.8	-9.5	NO		NO	bb
8	8 171224M1_10	Standard	150.000	6.44	25457.572	9016.957	35.291	161.4	7.6	NO		NO	bb
9	9 171224M1_11	Standard	150.000	6.44	26764.193	9638.235	34.711	158.8	5.9	NO		NO	bb

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**Compound name: 13C4-PFBA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	12.500	1.47	26451.861	26451.861	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	1.48	11437.441	11437.441	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	1.47	11706.751	11706.751	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	1.48	9944.285	9944.285	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	1.47	11486.176	11486.176	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	1.48	11211.347	11211.347	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	1.48	10894.851	10894.851	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	1.48	10759.889	10759.889	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	1.48	10597.749	10597.749	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C5-PFHxA**

Response Factor: 1

RRF SD: 1.24127e-016, Relative SD: 1.24127e-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 171224M1_3	Standard	12.500	3.20	38800.668	38800.668	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	3.20	15535.806	15535.806	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	3.20	14224.953	14224.953	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	3.20	12992.118	12992.118	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	3.20	15126.663	15126.663	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	3.20	14895.888	14895.888	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	3.20	14872.417	14872.417	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	3.20	13889.345	13889.345	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	3.20	12961.691	12961.691	12.500	12.5	0.0	NO		NO	bb

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**Compound name: 13C3-PFHxS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 56 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	12.500	3.95	7107.785	7107.785	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	3.95	2883.055	2883.055	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	3.95	2841.585	2841.585	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	3.95	2710.366	2710.366	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	3.95	3318.858	3318.858	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	3.95	2969.490	2969.490	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	3.95	3118.422	3118.422	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	3.95	2806.969	2806.969	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	3.95	2808.728	2808.728	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C8-PFOA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	12.500	4.32	26413.094	26413.094	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.32	10982.722	10982.722	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.32	11691.585	11691.585	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.32	10643.440	10643.440	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.32	10767.215	10767.215	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.32	10836.369	10836.369	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.32	10792.643	10792.643	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.32	10202.361	10202.361	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	4.32	8853.827	8853.827	12.500	12.5	0.0	NO		NO	bb

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**Compound name: 13C9-PFNA**

Response Factor: 1  
 RRF SD: 3.92523e-017, Relative SD: 3.92523e-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 171224M1_3	Standard	12.500	4.75	29507.516	29507.516	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.75	14195.976	14195.976	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.75	13059.568	13059.568	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.75	10934.757	10934.757	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.75	12592.888	12592.888	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.75	12206.837	12206.837	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.75	12337.297	12337.297	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.75	10996.689	10996.689	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	4.75	9063.306	9063.306	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 171224M1_3	Standard	12.500	4.83	8104.169	8104.169	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	4.83	3735.470	3735.470	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	4.83	3973.234	3973.234	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	4.82	3253.069	3253.069	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	4.83	3448.394	3448.394	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	4.83	2885.122	2885.122	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	4.83	3636.332	3636.332	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	4.83	3591.406	3591.406	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	4.83	3128.331	3128.331	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time  
 Printed: Tuesday, December 26, 2017 14:45:33 Pacific Standard Time

**Compound name: 13C6-PFDA**

Response Factor: 1  
 RRF SD: 1.11022e-016, Relative SD: 1.11022e-014  
 Response type: Internal Std ( Ref 60 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	12.500	5.11	24857.238	24857.238	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.11	11105.143	11105.143	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.11	11394.838	11394.838	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	5.11	10883.651	10883.651	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.11	9450.396	9450.396	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.11	10323.603	10323.603	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	5.11	9572.553	9572.553	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.11	8059.830	8059.830	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.11	7810.085	7810.085	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C7-PFUdA**

Response Factor: 1  
 RRF SD: 0, Relative SD: 0  
 Response type: Internal Std ( Ref 61 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171224M1_3	Standard	12.500	5.43	26716.656	26716.656	12.500	12.5	0.0	NO		NO	bb
2	2 171224M1_4	Standard	12.500	5.43	12593.369	12593.369	12.500	12.5	0.0	NO		NO	bb
3	3 171224M1_5	Standard	12.500	5.43	10824.027	10824.027	12.500	12.5	0.0	NO		NO	bb
4	4 171224M1_6	Standard	12.500	5.43	9724.960	9724.960	12.500	12.5	0.0	NO		NO	bb
5	5 171224M1_7	Standard	12.500	5.43	10210.565	10210.565	12.500	12.5	0.0	NO		NO	bb
6	6 171224M1_8	Standard	12.500	5.43	11976.635	11976.635	12.500	12.5	0.0	NO		NO	bb
7	7 171224M1_9	Standard	12.500	5.43	10706.407	10706.407	12.500	12.5	0.0	NO		NO	bb
8	8 171224M1_10	Standard	12.500	5.43	9016.957	9016.957	12.500	12.5	0.0	NO		NO	bb
9	9 171224M1_11	Standard	12.500	5.43	9638.235	9638.235	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:56:42 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 10:08:34

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

Name: 171224M1\_3, Date: 24-Dec-2017, Time: 12:47:59, ID: ST171224M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

#	Name	Trace	CoD
1	1 PFBA	213.0 > 168.8	1.000
2	2 PFPeA	263.1 > 218.9	1.000
3	3 PFBS	299.0 > 79.7	0.999
4	4 PFHxA	313.2 > 268.9	0.999
5	5 PFHpA	363.0 > 318.9	0.999
6	6 L-PFHxS	398.9 > 79.6	0.997
7	7 Br-PFHxS	398.9 > 79.6	1.000
8	8 6:2 FTS	427.1 > 407	0.999
9	9 L-PFOA	413 > 368.7	0.992
10	10 Br-PFOA	413 > 368.7	1.000
11	11 PFHpS	449 > 80.0	0.999
12	12 PFNA	463.0 > 418.8	0.991
13	13 PFOSA	498.1 > 77.8	0.994
14	14 L-PFOS	499 > 79.9	0.999
15	15 Br-PFOS	499 > 79.9	0.998
16	16 PFDA	513 > 468.8	0.999
17	17 8:2 FTS	527 > 506.9	0.997
18	18 N-MeFOSAA	570.1 > 419	0.998
19	19 N-EtFOSAA	584.2 > 419	0.996
20	20 PFUdA	563.0 > 518.9	0.996
21	21 PFDS	598.8 > 80	0.992
22	22 PFDoA	612.9 > 569.0	0.997
23	23 N-MeFOSA	512.1 > 168.9	0.998
24	24 PFTTrDA	662.9 > 618.9	0.995
25	25 PFTeDA	712.9 > 668.8	0.995
26	26 N-EtFOSA	526.1 > 168.9	1.000
27	27 PFHxDA	813.1 > 768.6	0.998
28	28 PFODA	913.1 > 868.8	1.000
29	29 N-MeFOSE	616.1 > 58.9	0.991
30	30 N-EtFOSE	630.1 > 58.9	0.998

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 10:08:34

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

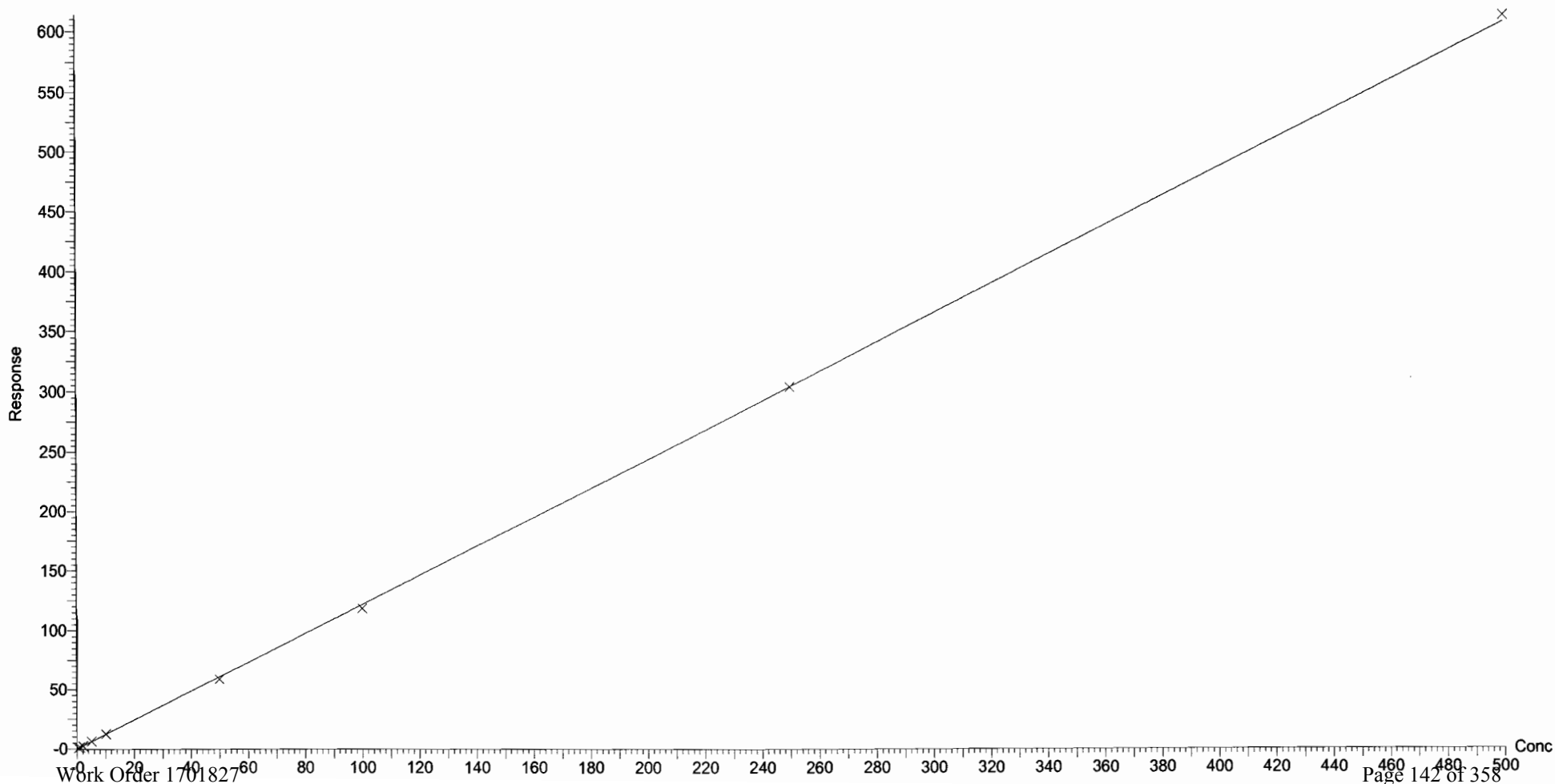
Compound name: PFBA

Correlation coefficient:  $r = 0.999898$ ,  $r^2 = 0.999796$

Calibration curve:  $1.2162 * x + -0.0497286$

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\171224M1\171224M1\_crvB.qld

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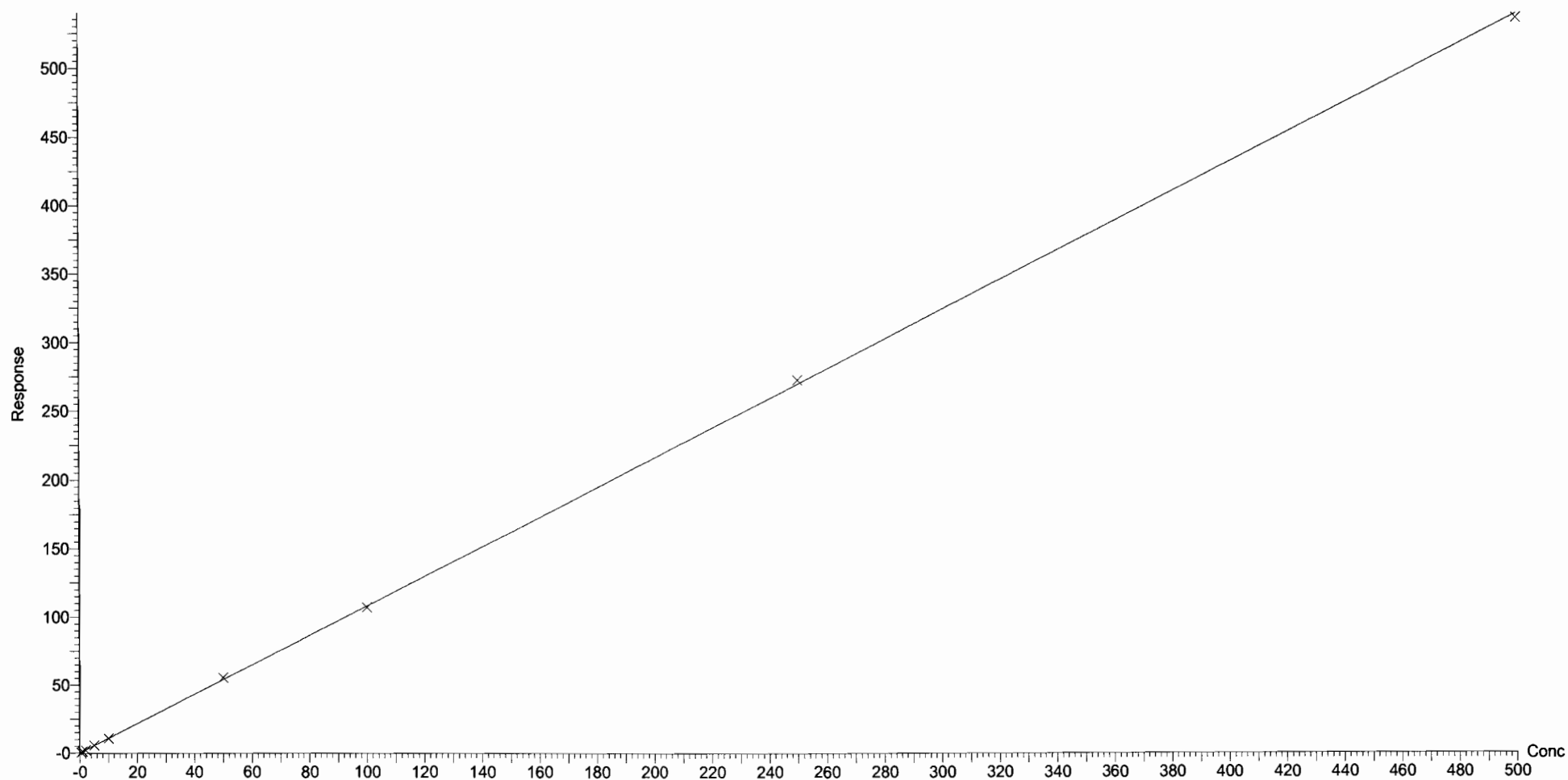
Compound name: PFPeA

Correlation coefficient:  $r = 0.999943$ ,  $r^2 = 0.999886$

Calibration curve:  $1.07922 * x + -0.0200015$

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\171224M1\171224M1\_crvB.qld

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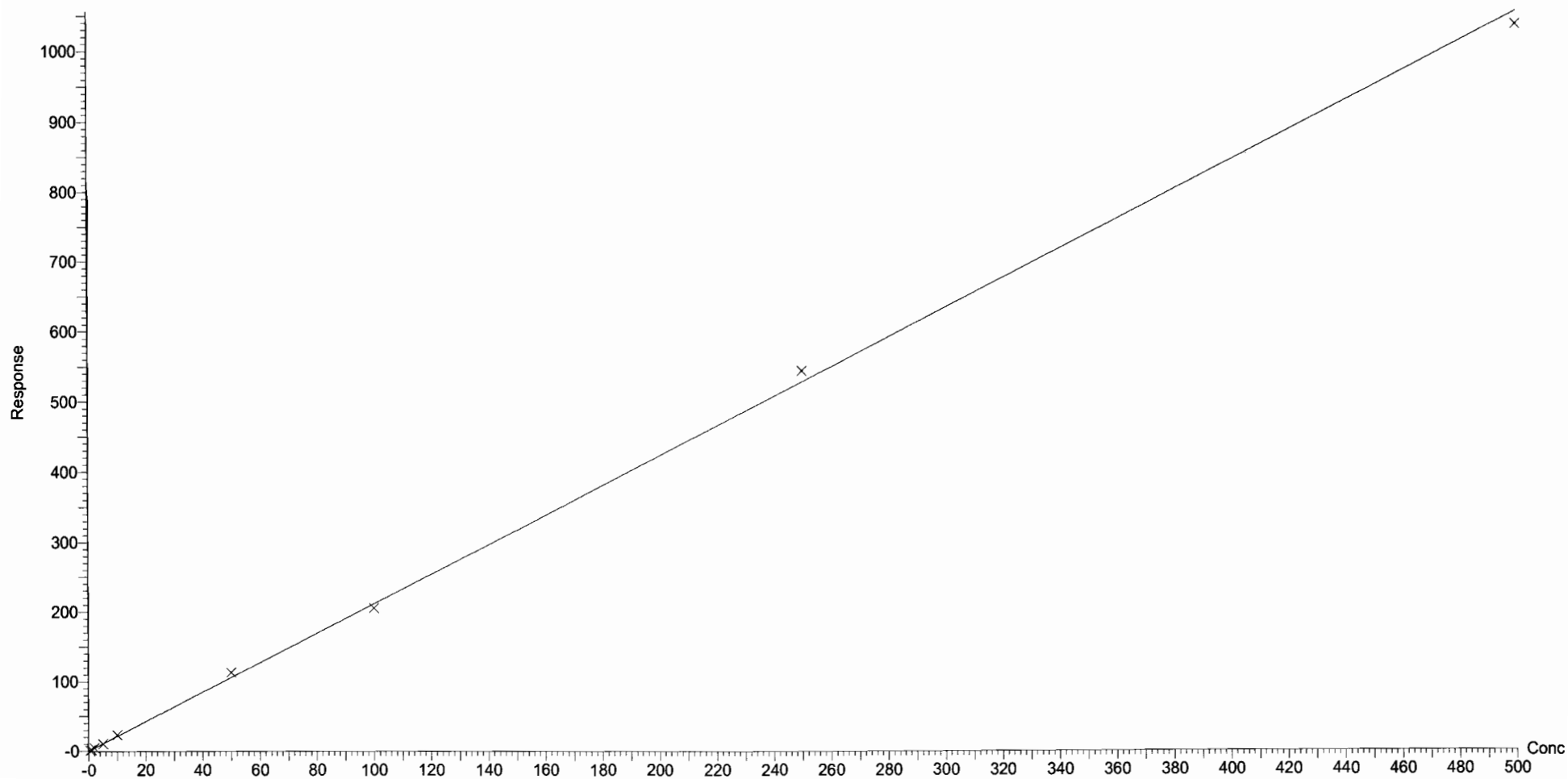
Compound name: PFBS

Correlation coefficient:  $r = 0.999522$ ,  $r^2 = 0.999043$

Calibration curve:  $2.11171 * x + 0.0397539$

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

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



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Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

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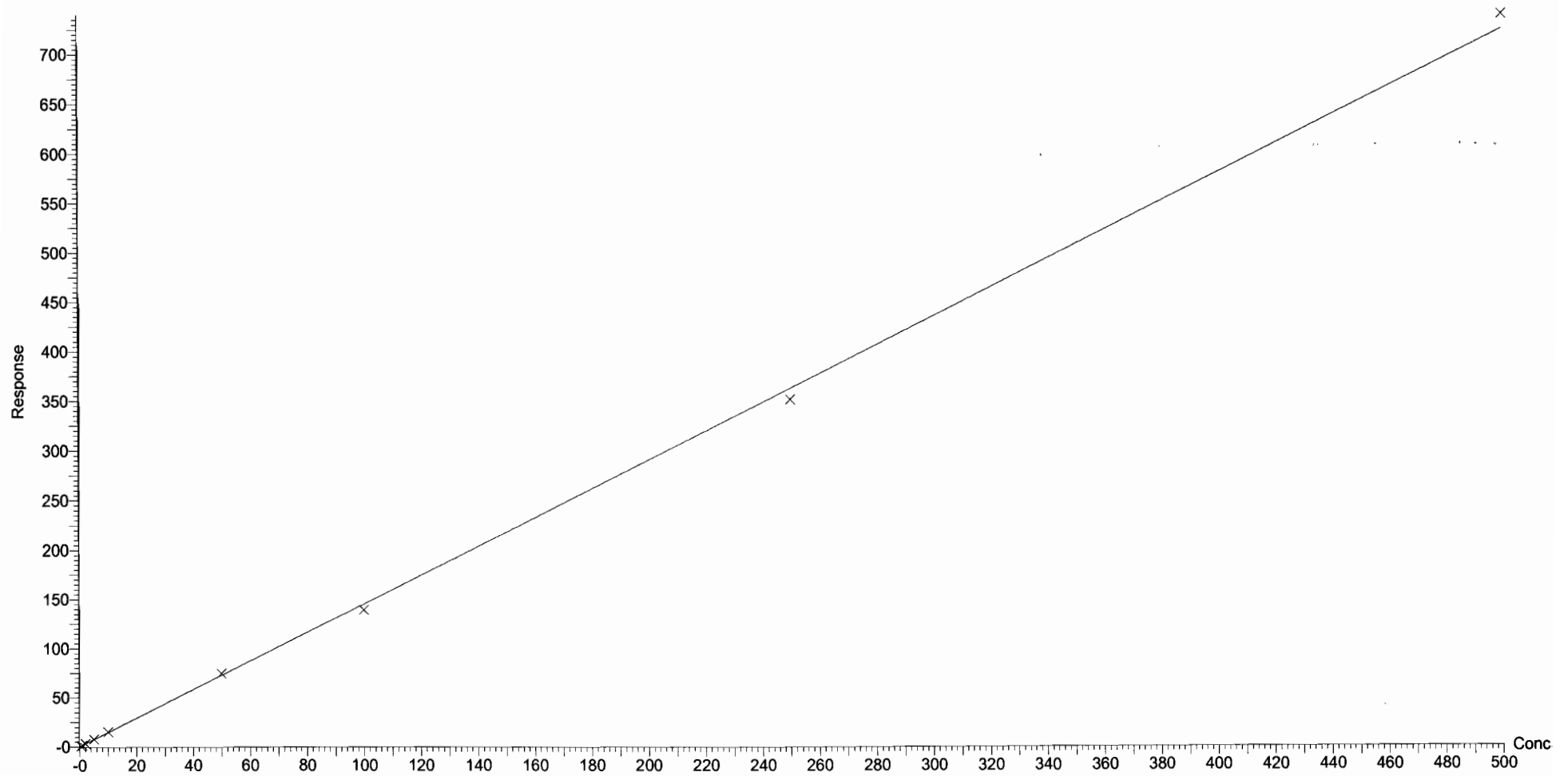
Compound name: PFHxA

Correlation coefficient:  $r = 0.999619$ ,  $r^2 = 0.999237$

Calibration curve:  $1.4505 * x + 0.120209$

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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

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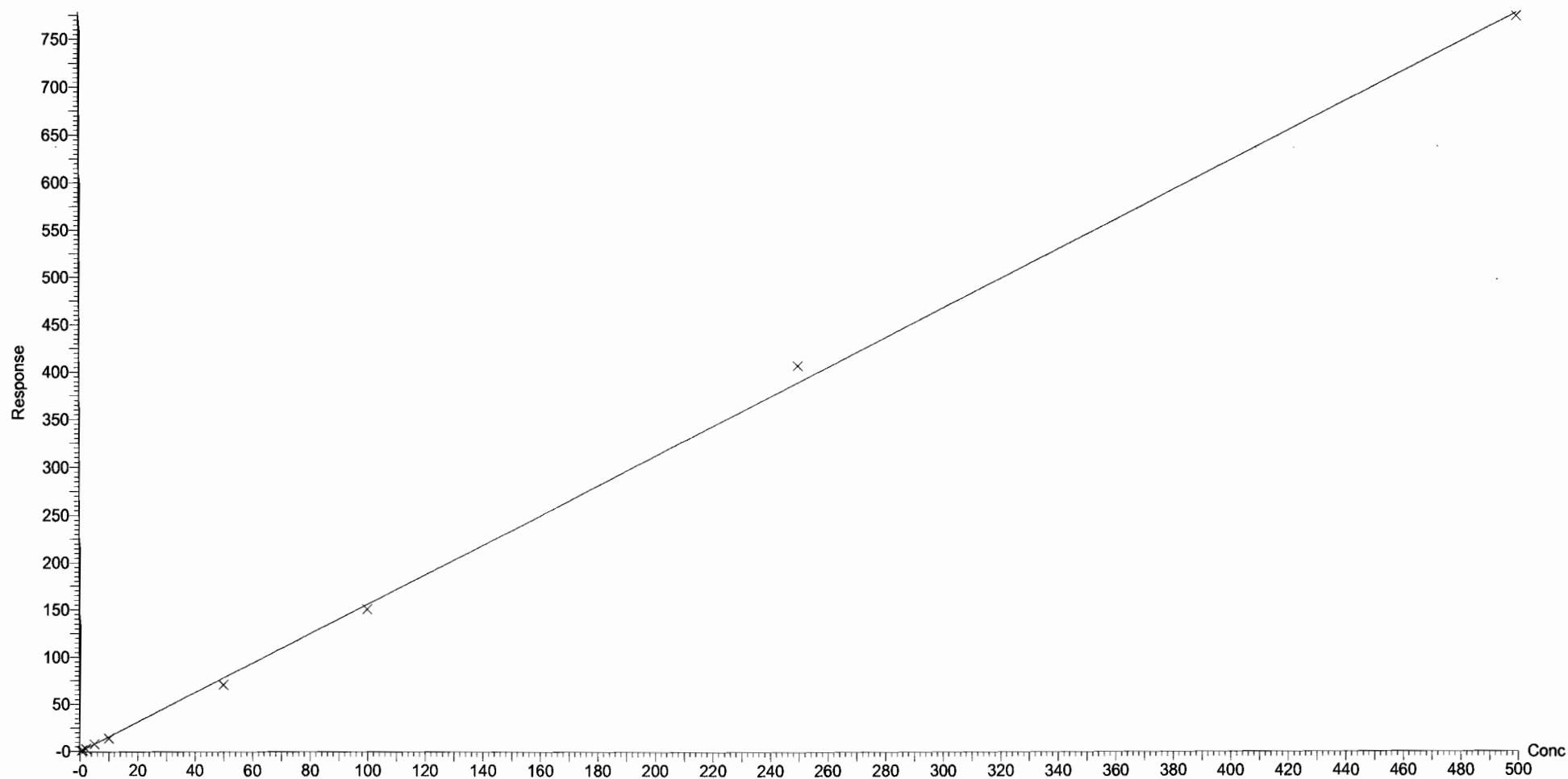
Compound name: PFHpA

Correlation coefficient:  $r = 0.999296$ ,  $r^2 = 0.998592$

Calibration curve:  $1.55722 * x + -0.220525$

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

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

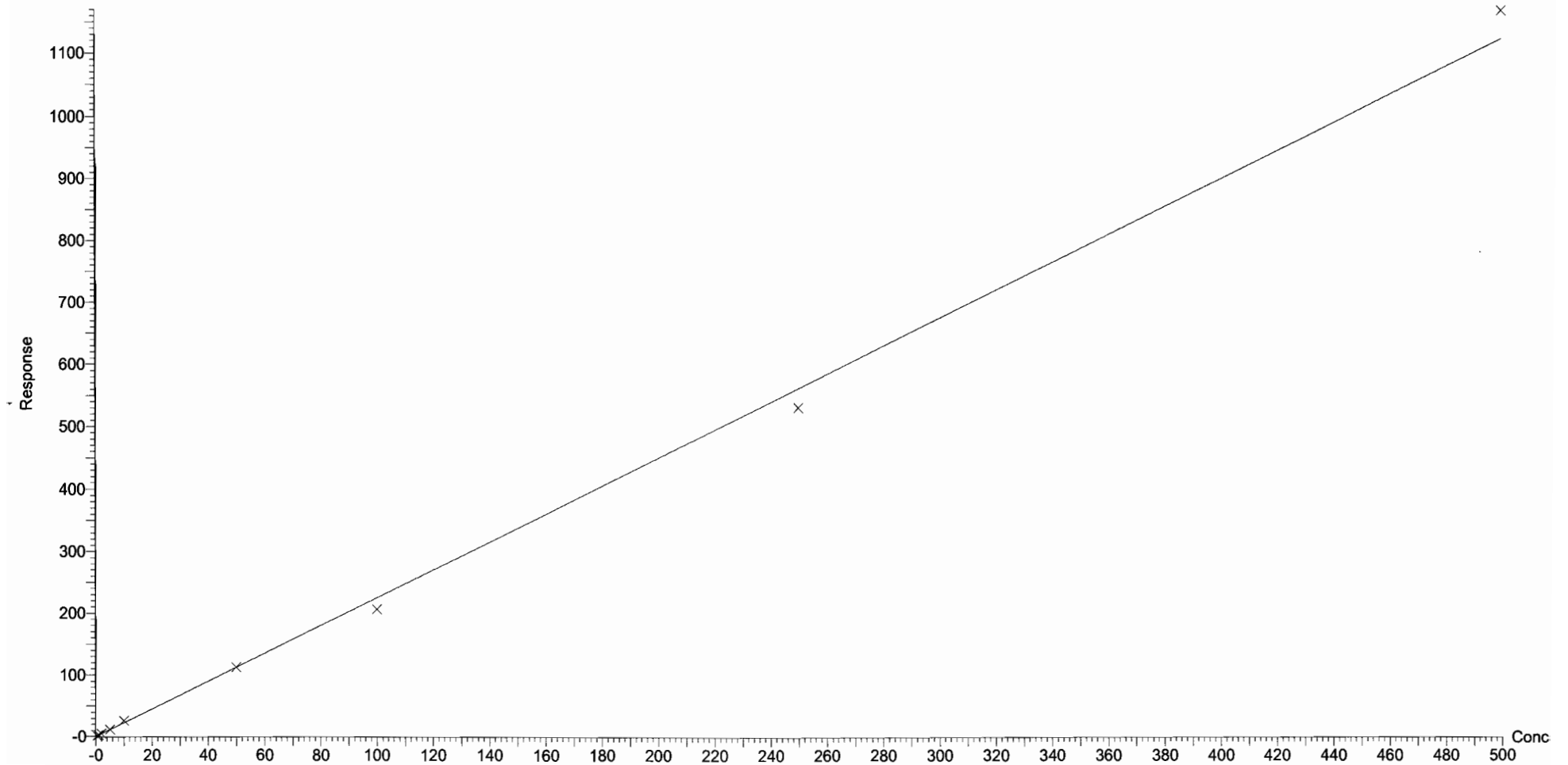


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

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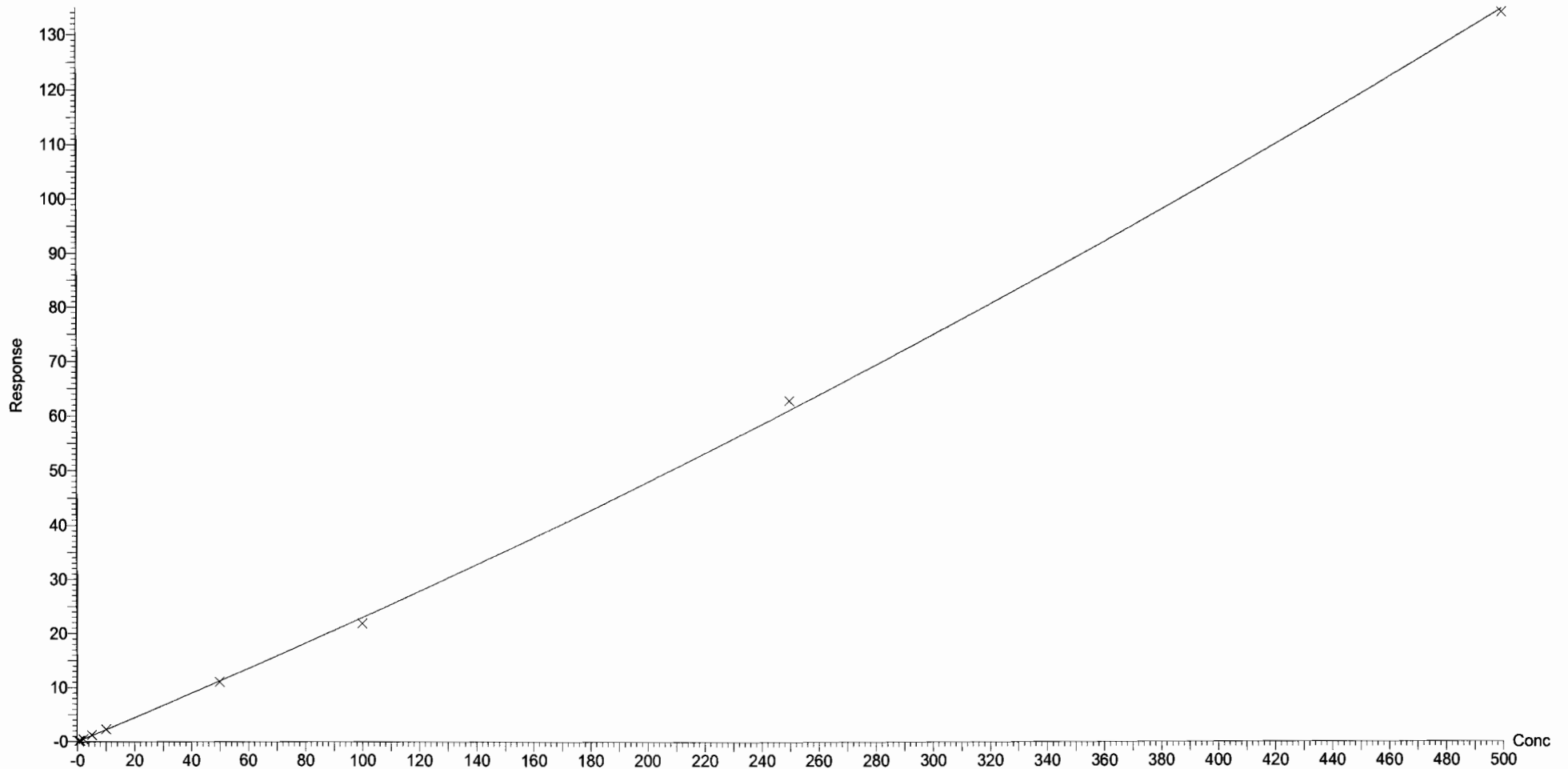
Compound name: L-PFHxS  
Correlation coefficient:  $r = 0.998617$ ,  $r^2 = 0.997237$   
Calibration curve:  $2.24931 * x + 0.0687211$   
Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

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Compound name: 6:2 FTS  
Coefficient of Determination:  $R^2 = 0.999475$   
Calibration curve:  $0.000101954 * x^2 + 0.218862 * x + -0.0116435$   
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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

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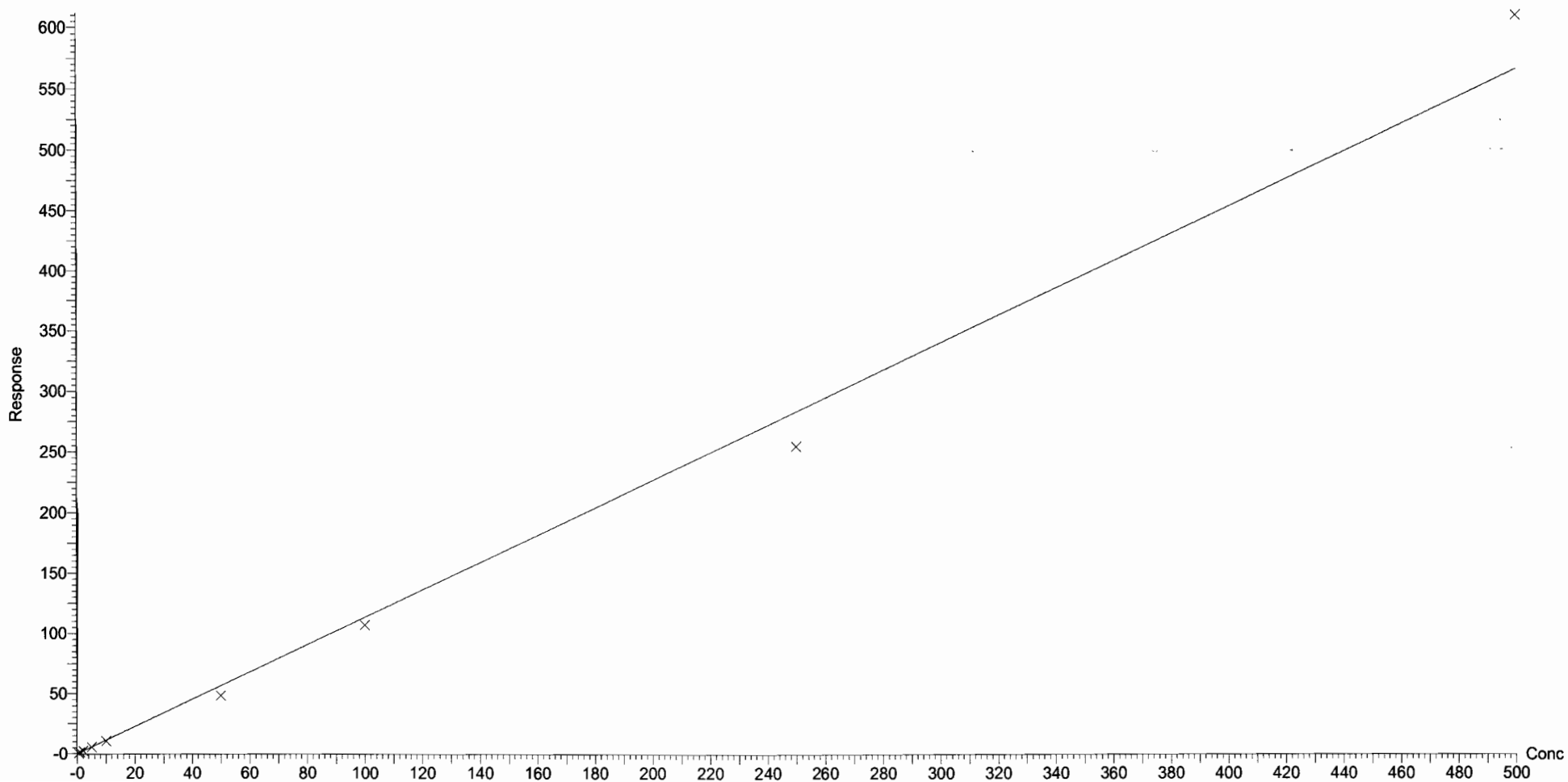
Compound name: L-PFOA

Correlation coefficient:  $r = 0.996068$ ,  $r^2 = 0.992151$

Calibration curve:  $1.13485 * x + -0.068056$

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

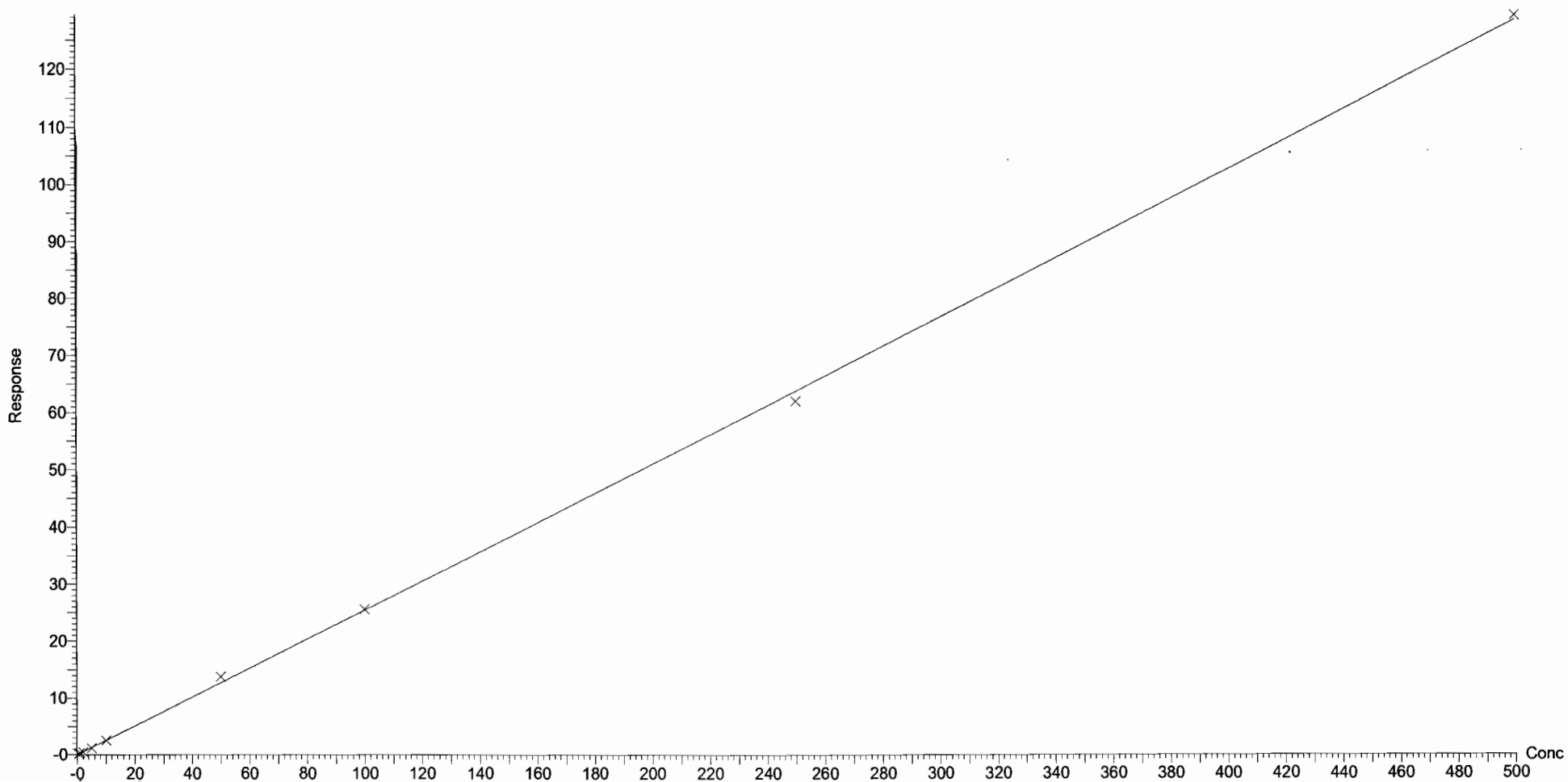
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

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Compound name: PFHpS  
Coefficient of Determination:  $R^2 = 0.999306$   
Calibration curve:  $9.14308e-006 * x^2 + 0.25284 * x + -0.0204317$   
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\171224M1\171224M1\_crvB.qld

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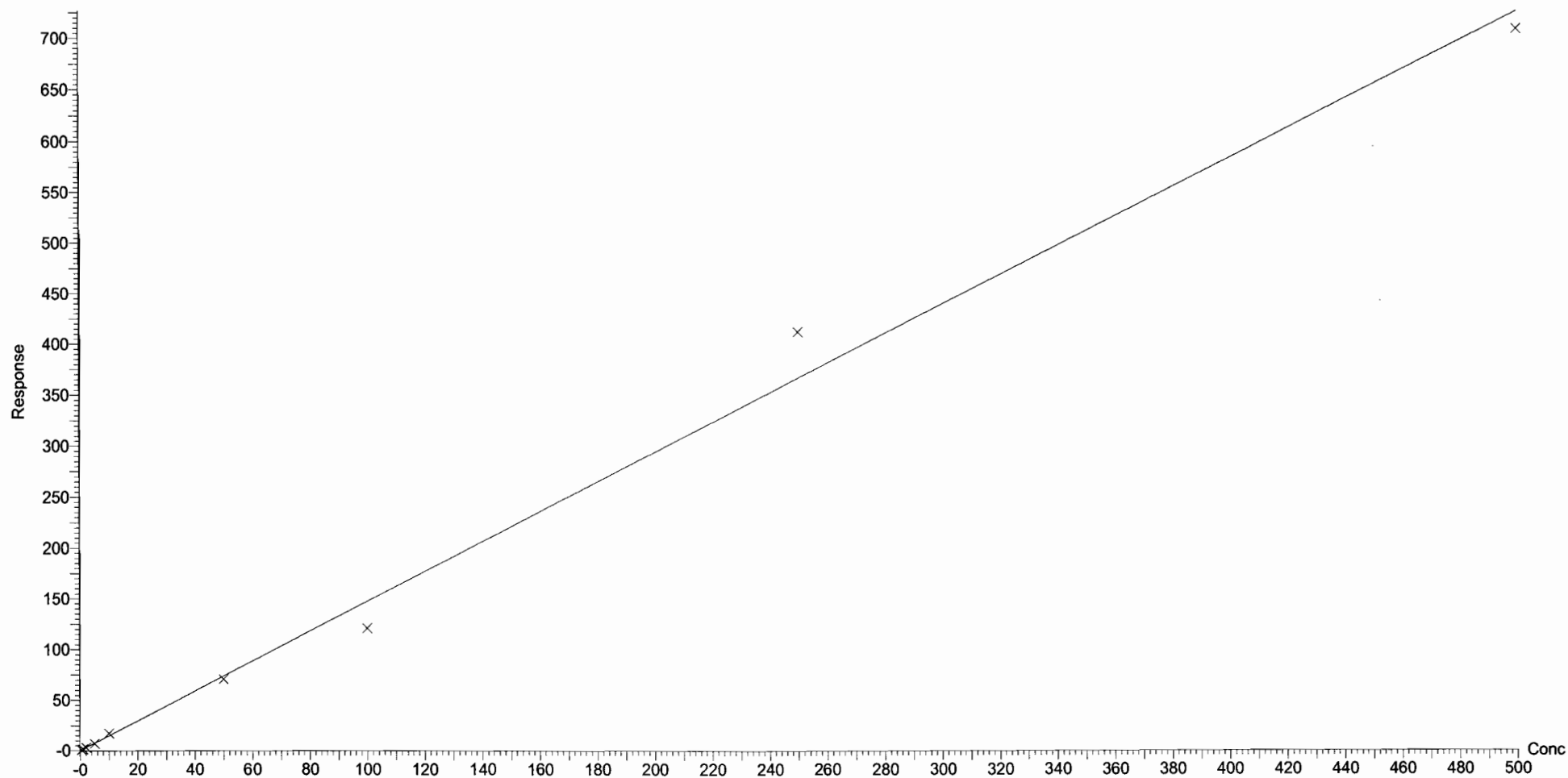
Compound name: PFNA

Coefficient of Determination:  $R^2 = 0.991312$

Calibration curve:  $-5.39384e-005 * x^2 + 1.48033 * x + -0.0881933$

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

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

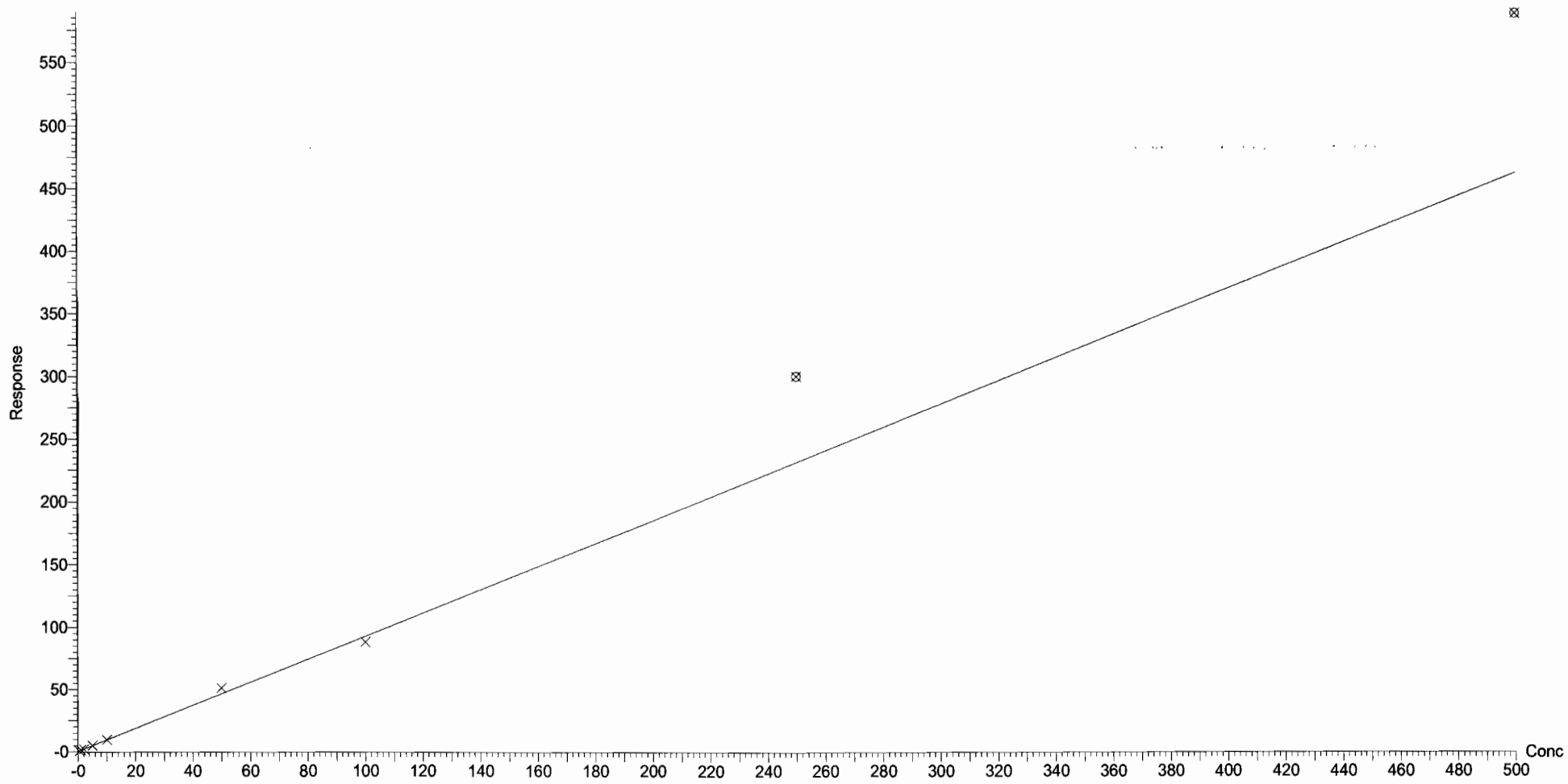




Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time  
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Compound name: PFOSA  
Correlation coefficient:  $r = 0.997209$ ,  $r^2 = 0.994426$   
Calibration curve:  $0.925471 * x + 0.232387$   
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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

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Compound name: L-PFOS

Coefficient of Determination:  $R^2 = 0.998922$

Calibration curve:  $0.000179303 * x^2 + 1.12135 * x + -0.0439045$

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

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



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

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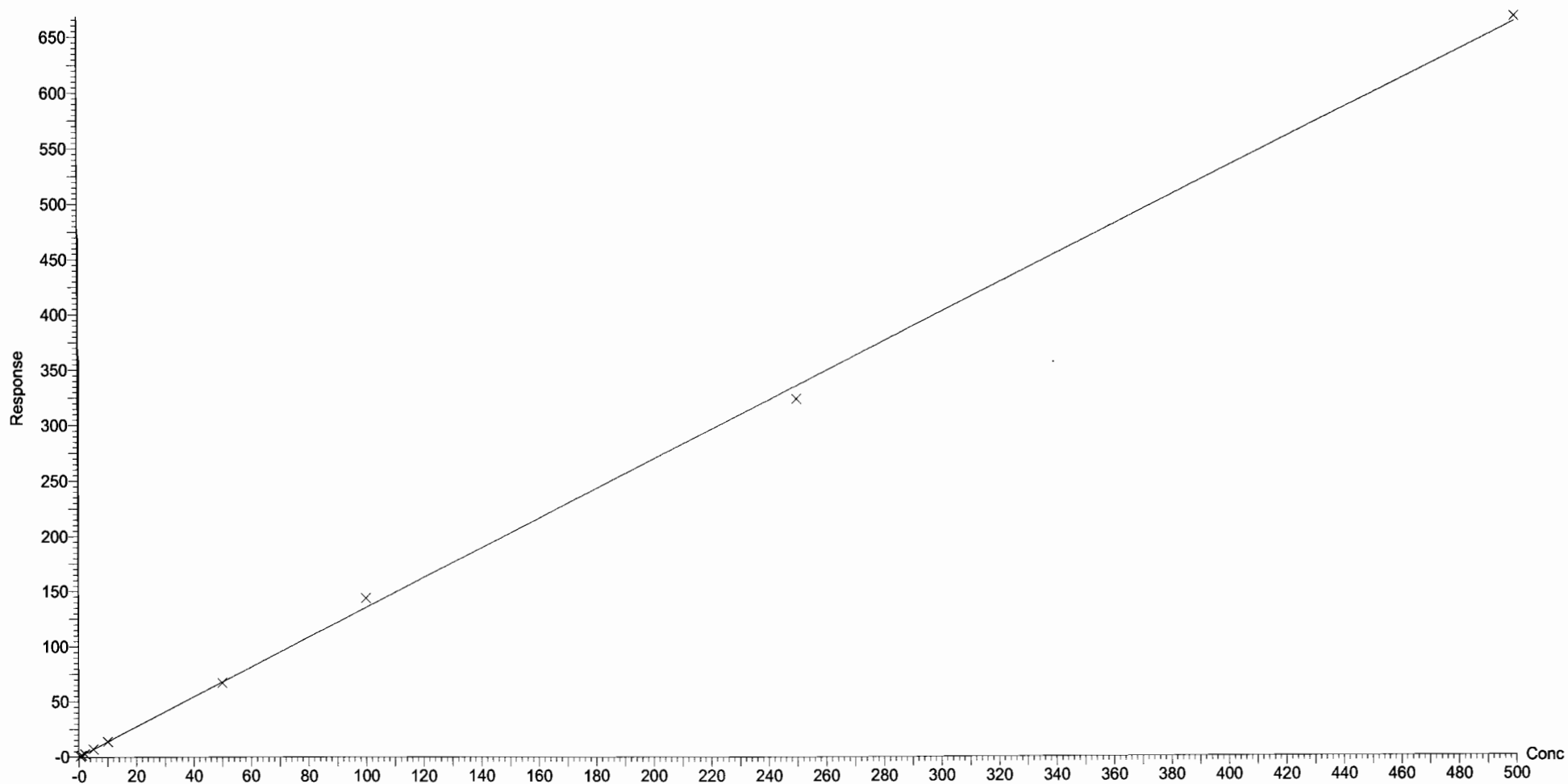
Compound name: PFDA

Coefficient of Determination:  $R^2 = 0.999156$

Calibration curve:  $-6.56116e-005 * x^2 + 1.35938 * x + -0.0151289$

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\171224M1\171224M1\_crvB.qld

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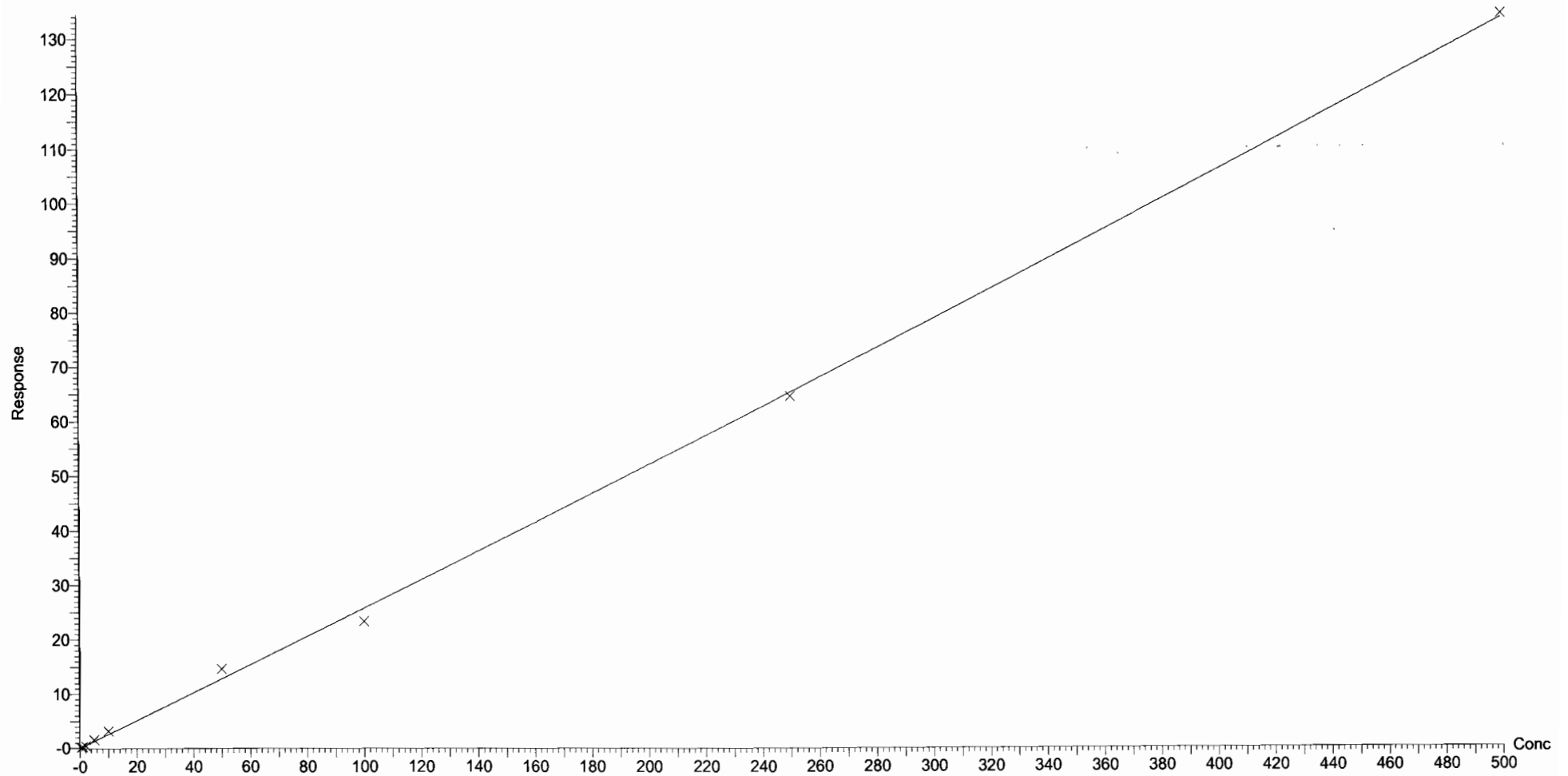
Compound name: 8:2 FTS

Coefficient of Determination:  $R^2 = 0.997132$

Calibration curve:  $2.5566e-005 * x^2 + 0.254649 * x + 0.00699792$

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

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



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

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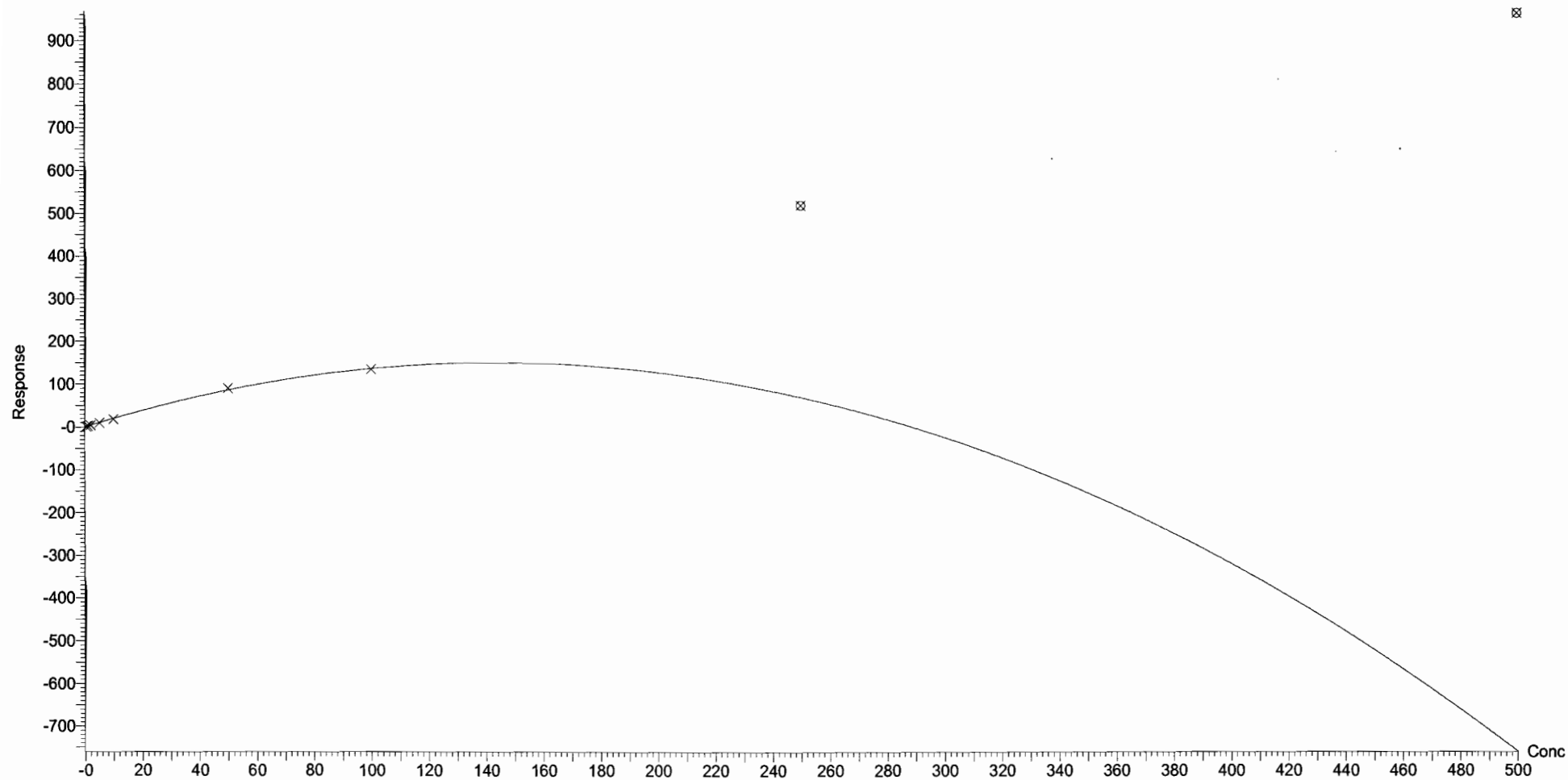
Compound name: N-MeFOSAA

Coefficient of Determination:  $R^2 = 0.997845$

Calibration curve:  $-0.00719827 * x^2 + 2.07991 * x + -0.13385$

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

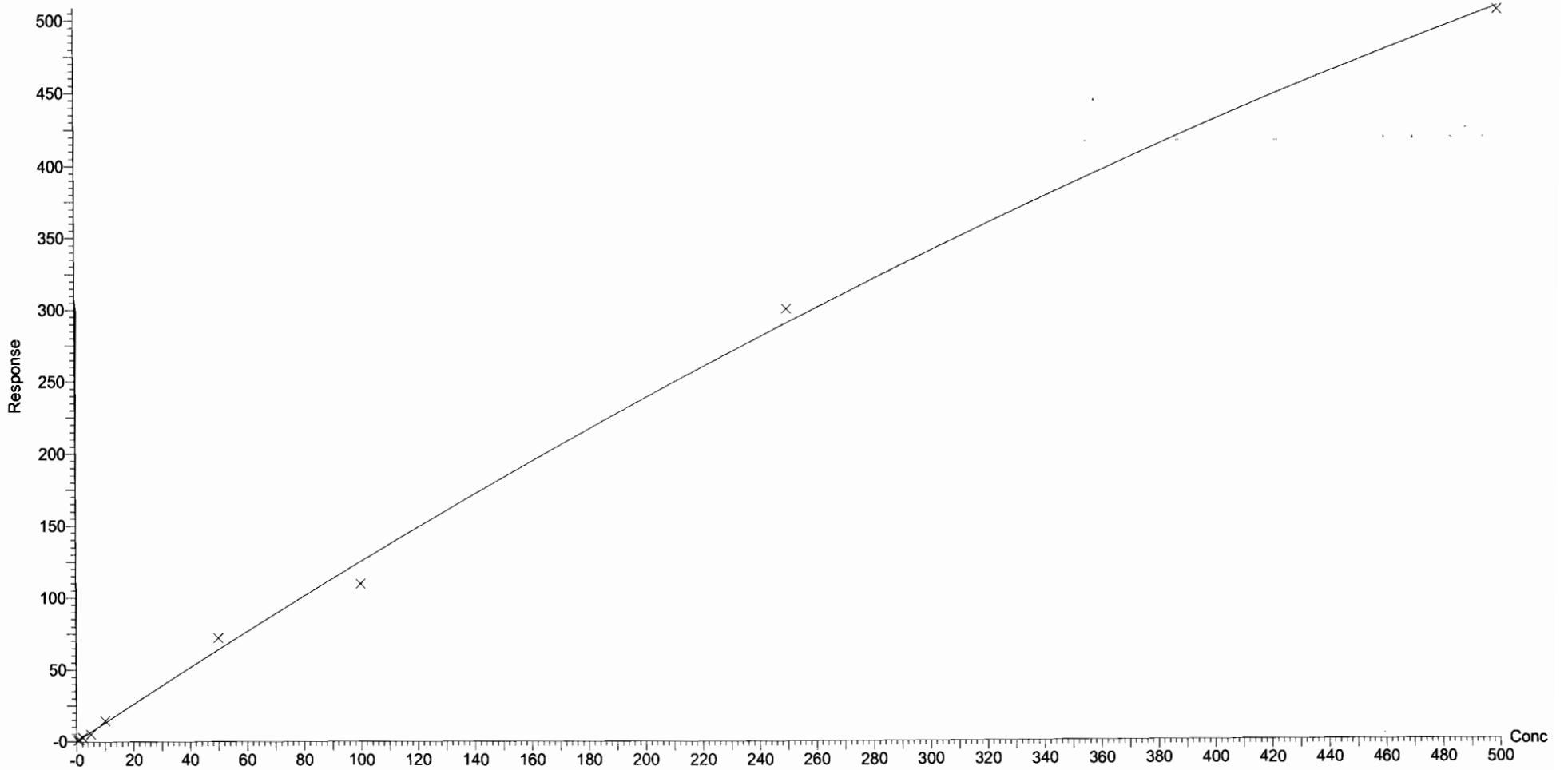
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time  
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Compound name: N-EtFOSAA  
Coefficient of Determination:  $R^2 = 0.995681$   
Calibration curve:  $-0.000577785 * x^2 + 1.30576 * x + -0.0738799$   
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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

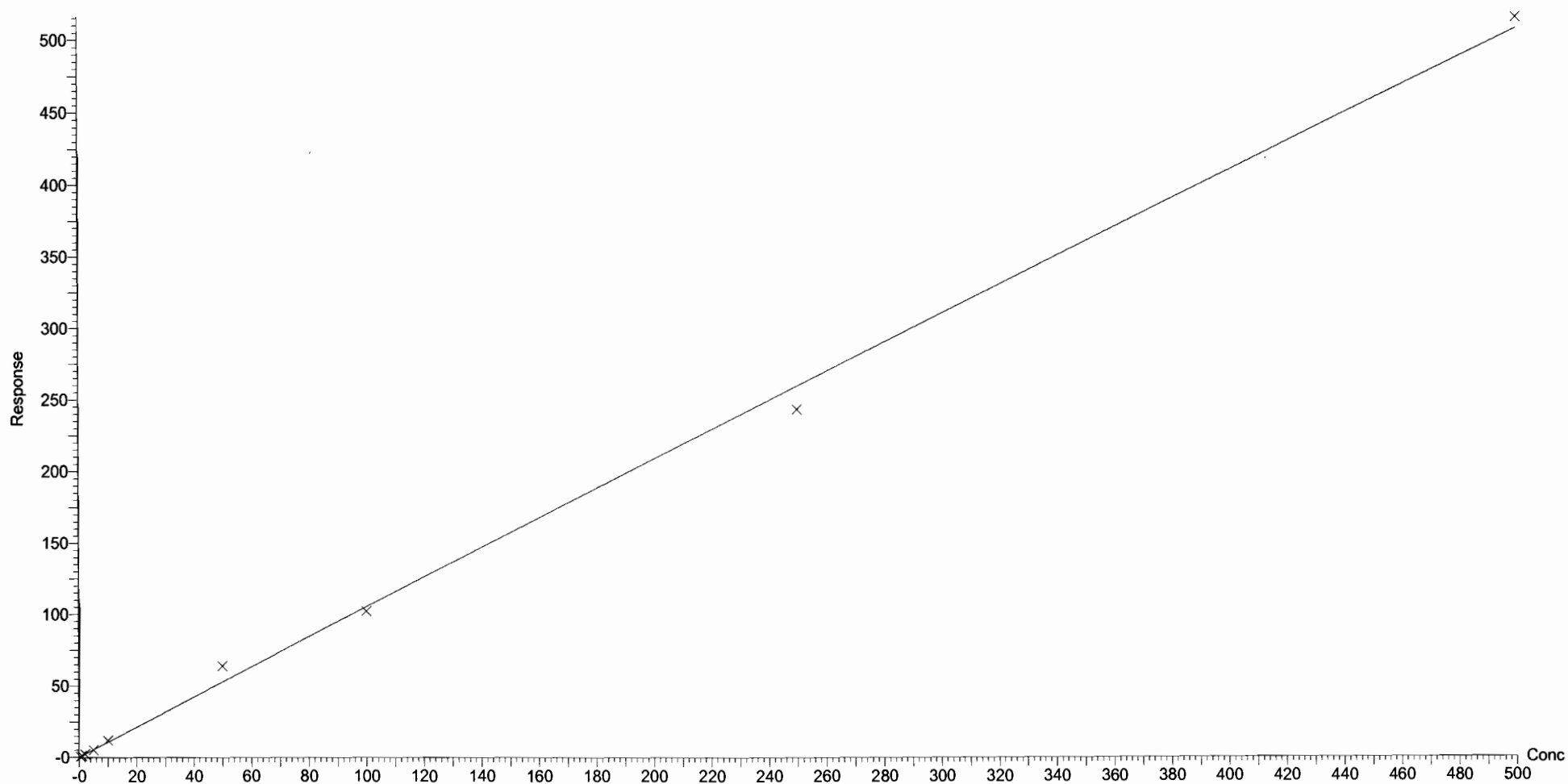
Compound name: PFUdA

Coefficient of Determination:  $R^2 = 0.996033$

Calibration curve:  $-8.75501e-005 * x^2 + 1.06032 * x + -0.00819795$

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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

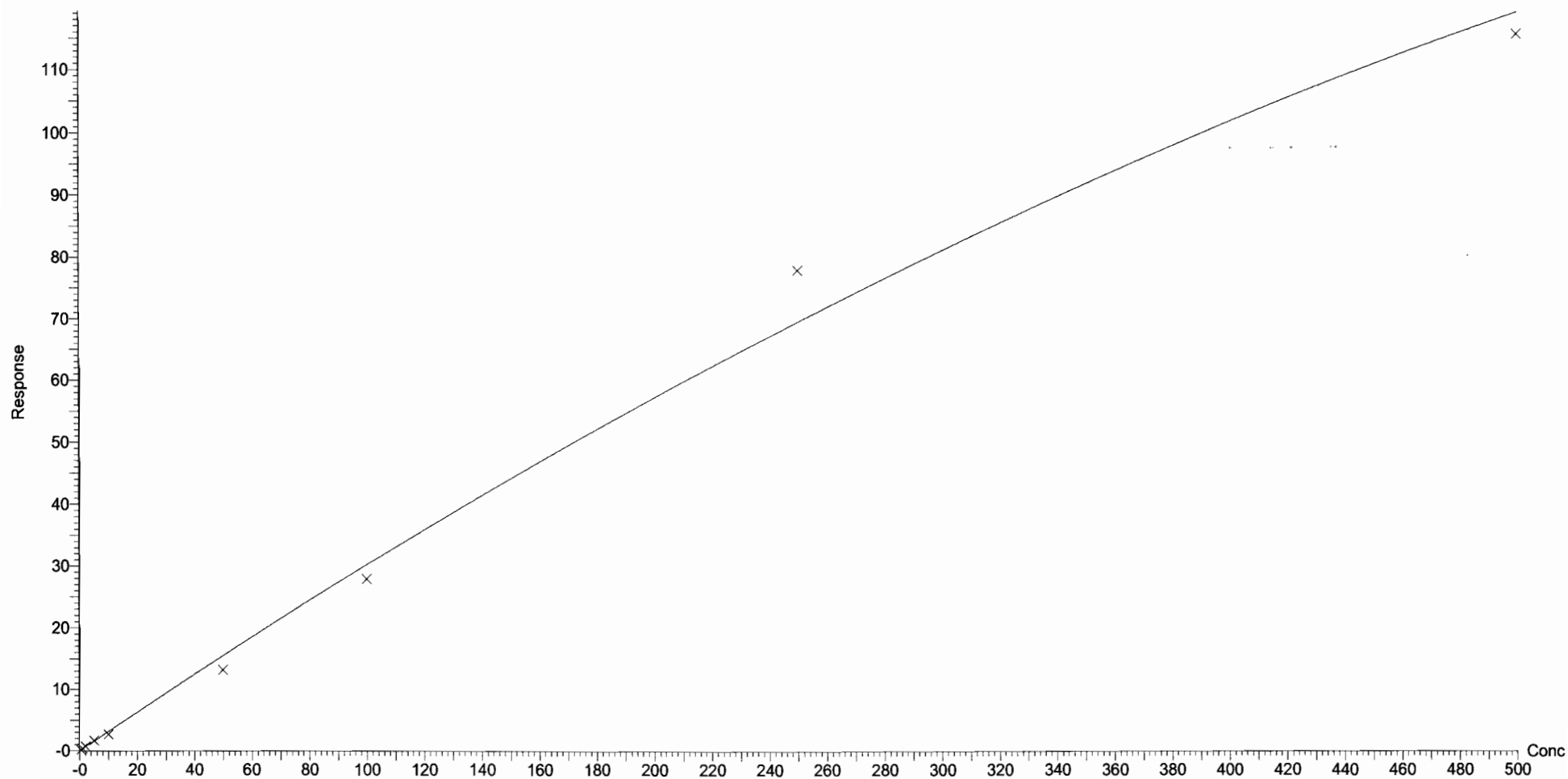
Compound name: PFDS

Coefficient of Determination:  $R^2 = 0.992031$

Calibration curve:  $-0.00015825 * x^2 + 0.31788 * x + -0.00152343$

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

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



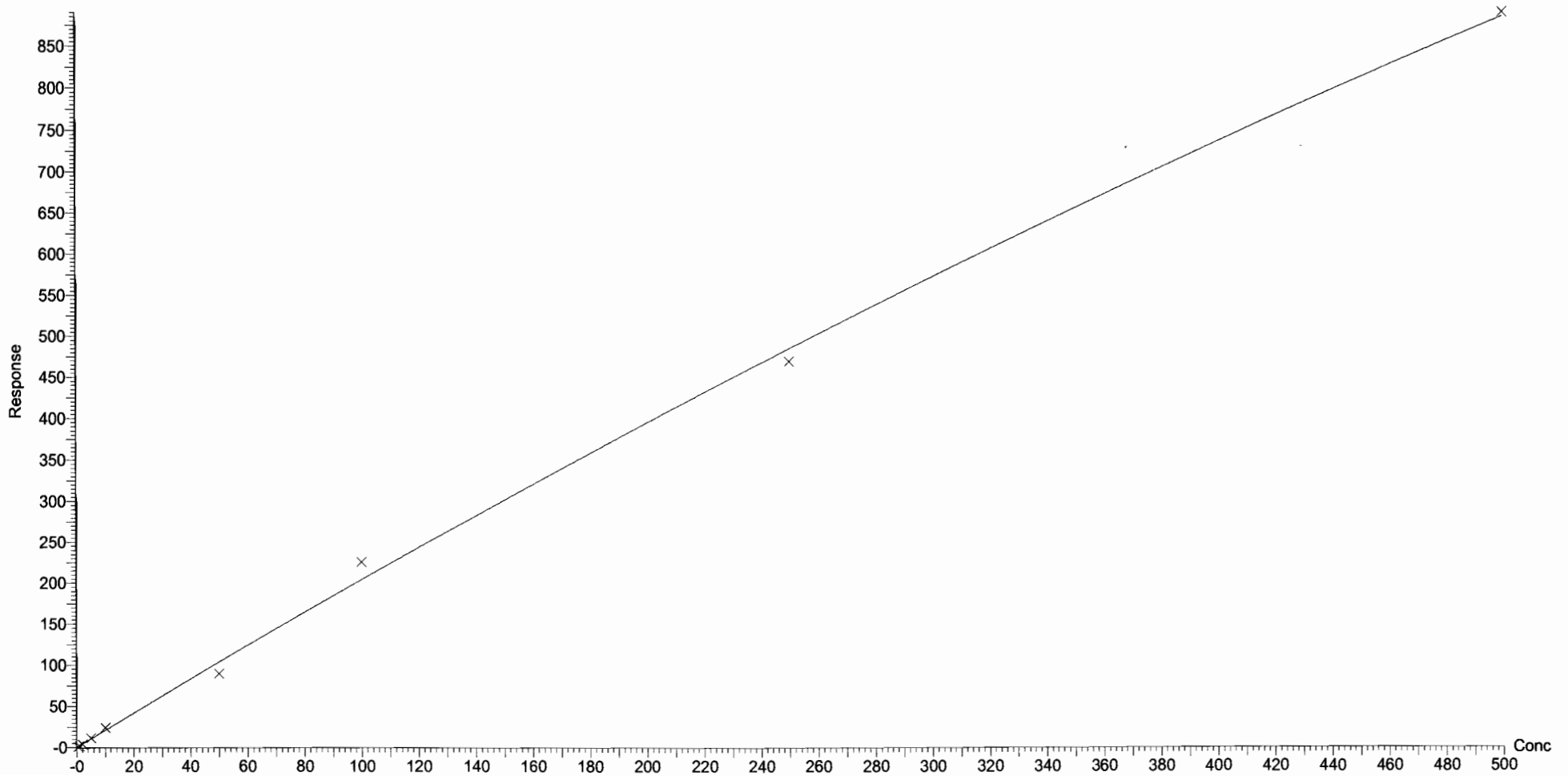


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

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Compound name: PFDoA  
Coefficient of Determination:  $R^2 = 0.996507$   
Calibration curve:  $-0.000671127 * x^2 + 2.10673 * x + 0.0095916$   
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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

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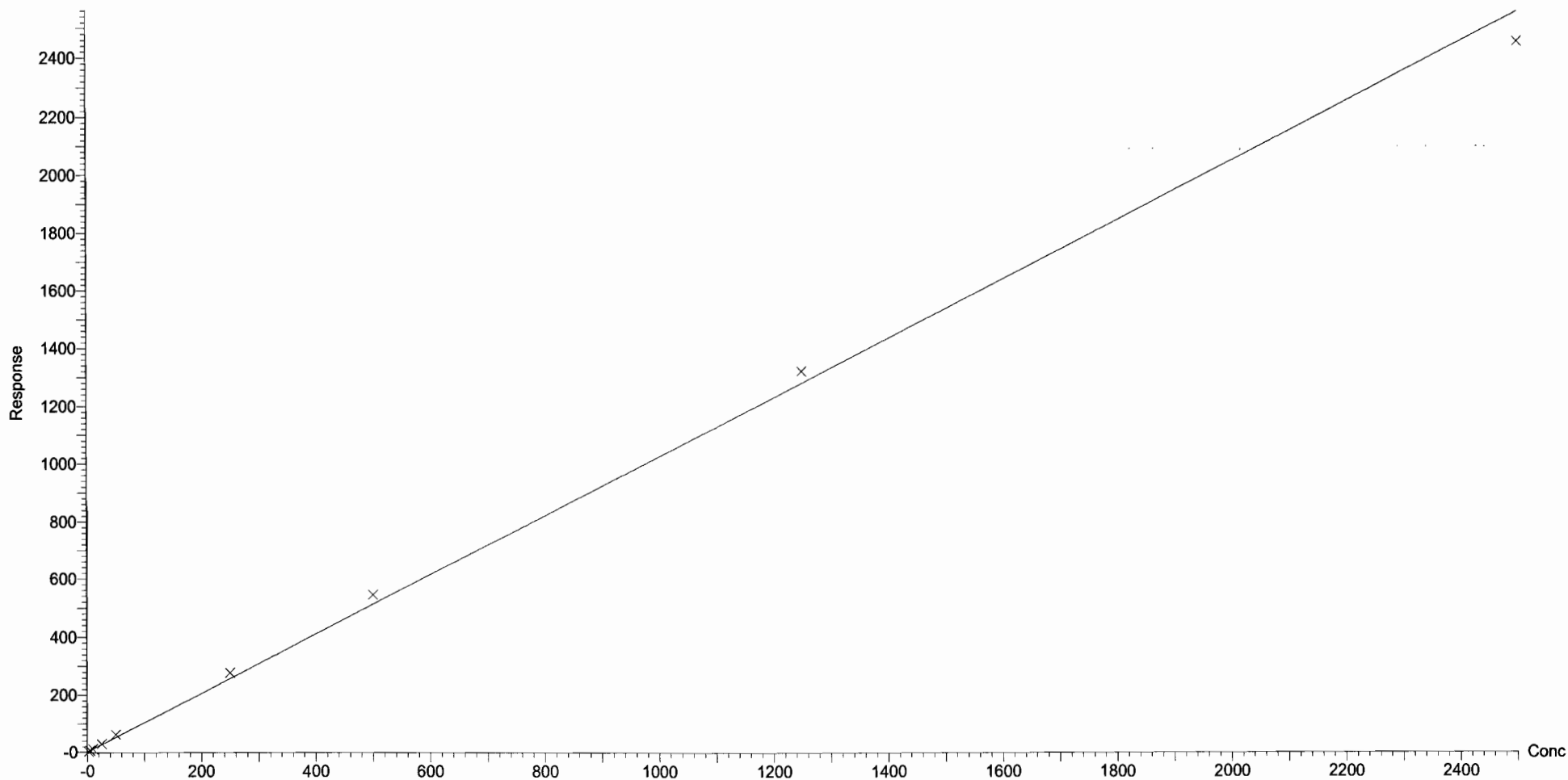
Compound name: N-MeFOSA

Correlation coefficient:  $r = 0.998804$ ,  $r^2 = 0.997610$

Calibration curve:  $1.0243 * x + 0.690193$

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\171224M1\171224M1\_crvB.qld

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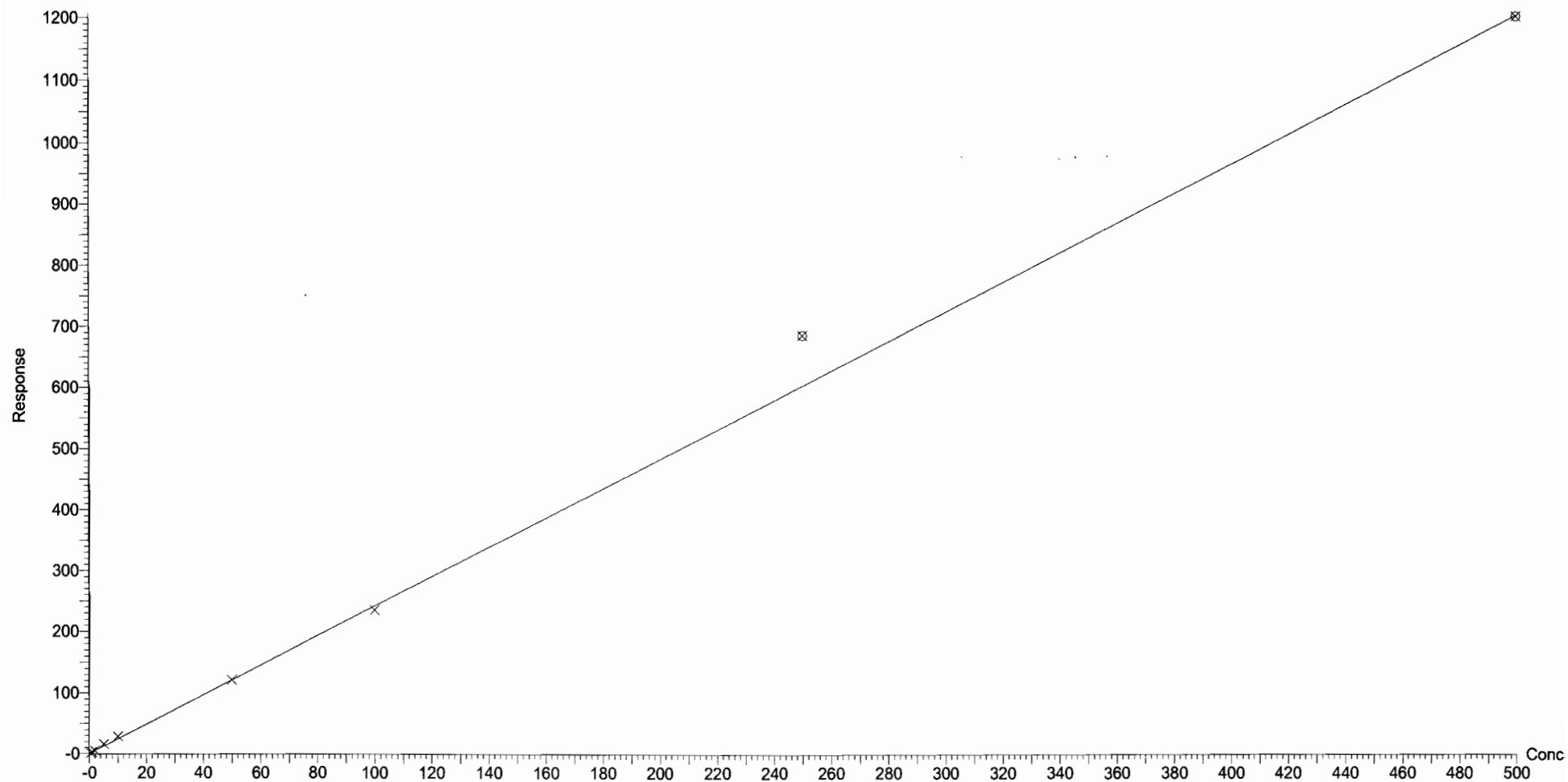
Compound name: PFTTrDA

Correlation coefficient:  $r = 0.997548$ ,  $r^2 = 0.995103$

Calibration curve:  $2.41244 * x + 0.359662$

Response type: Internal Std ( Ref 49 ), Area \* ( IS Conc. / IS Area )

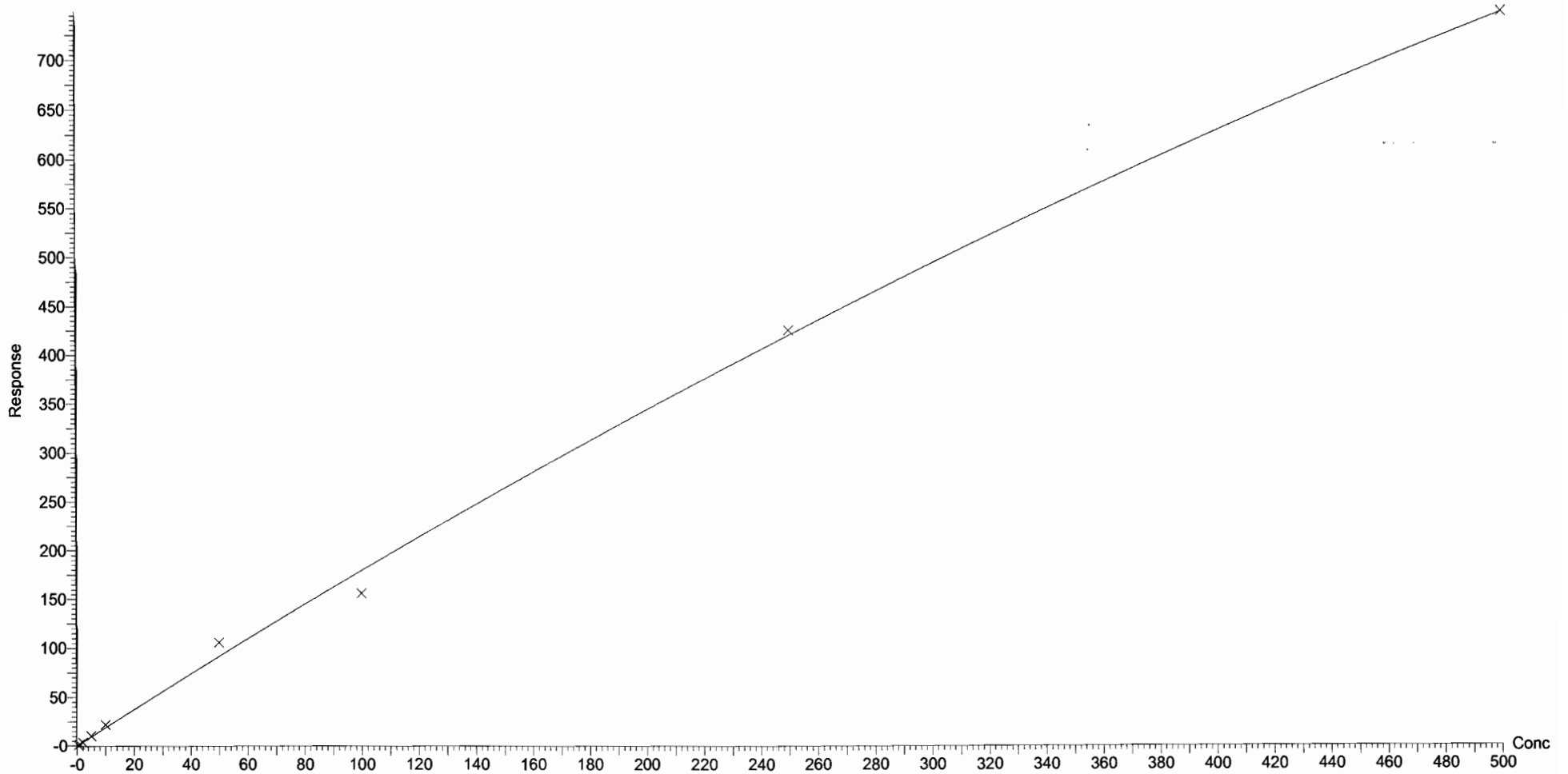
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

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Compound name: PFTeDA  
Coefficient of Determination:  $R^2 = 0.995370$   
Calibration curve:  $-0.000738038 * x^2 + 1.86465 * x + 0.00606828$   
Response type: Internal Std ( Ref 49 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

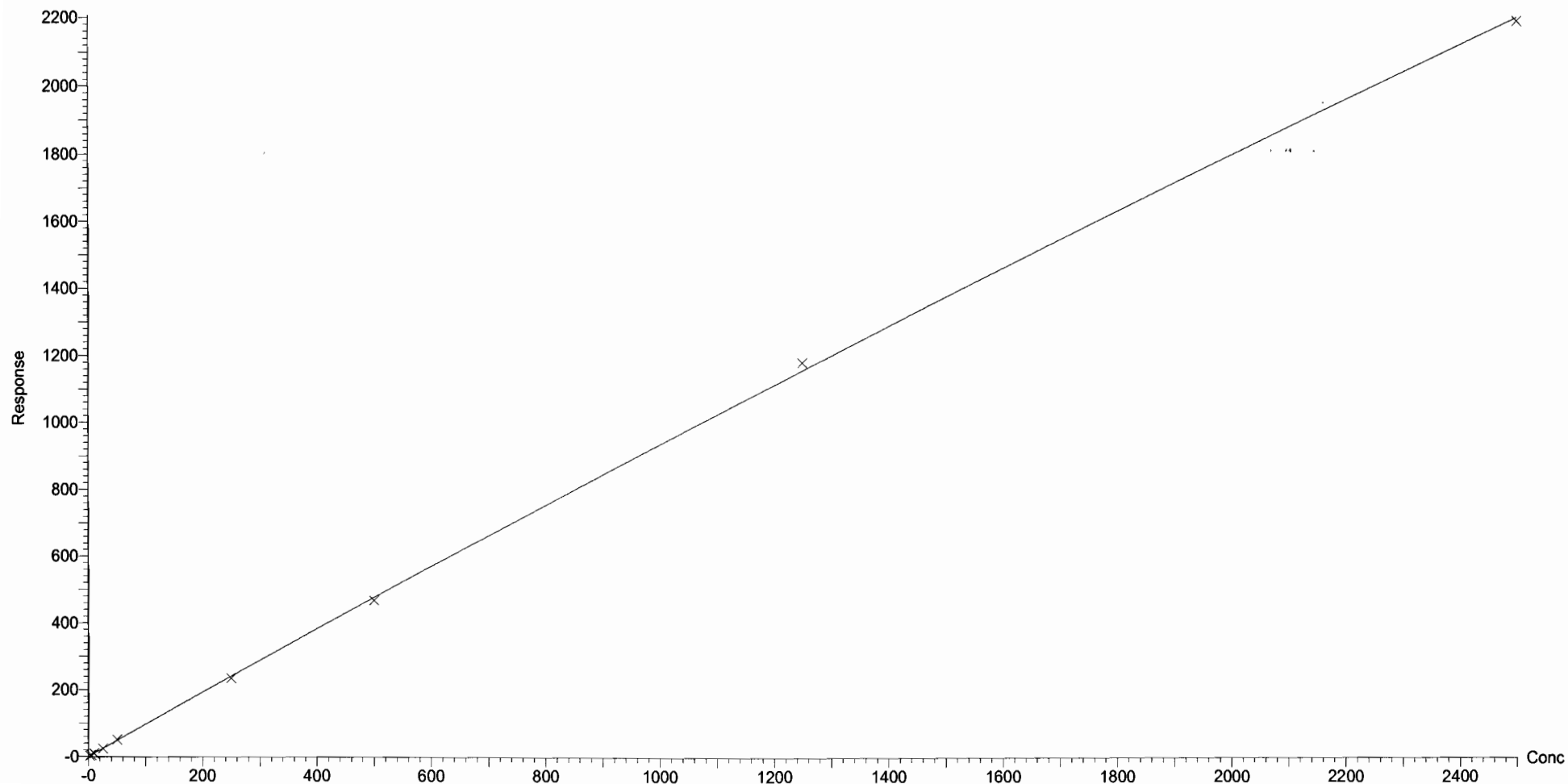


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

Compound name: N-EtFOSA  
Coefficient of Determination:  $R^2 = 0.999744$   
Calibration curve:  $-3.51418e-005 * x^2 + 0.970092 * x + -0.171197$   
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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

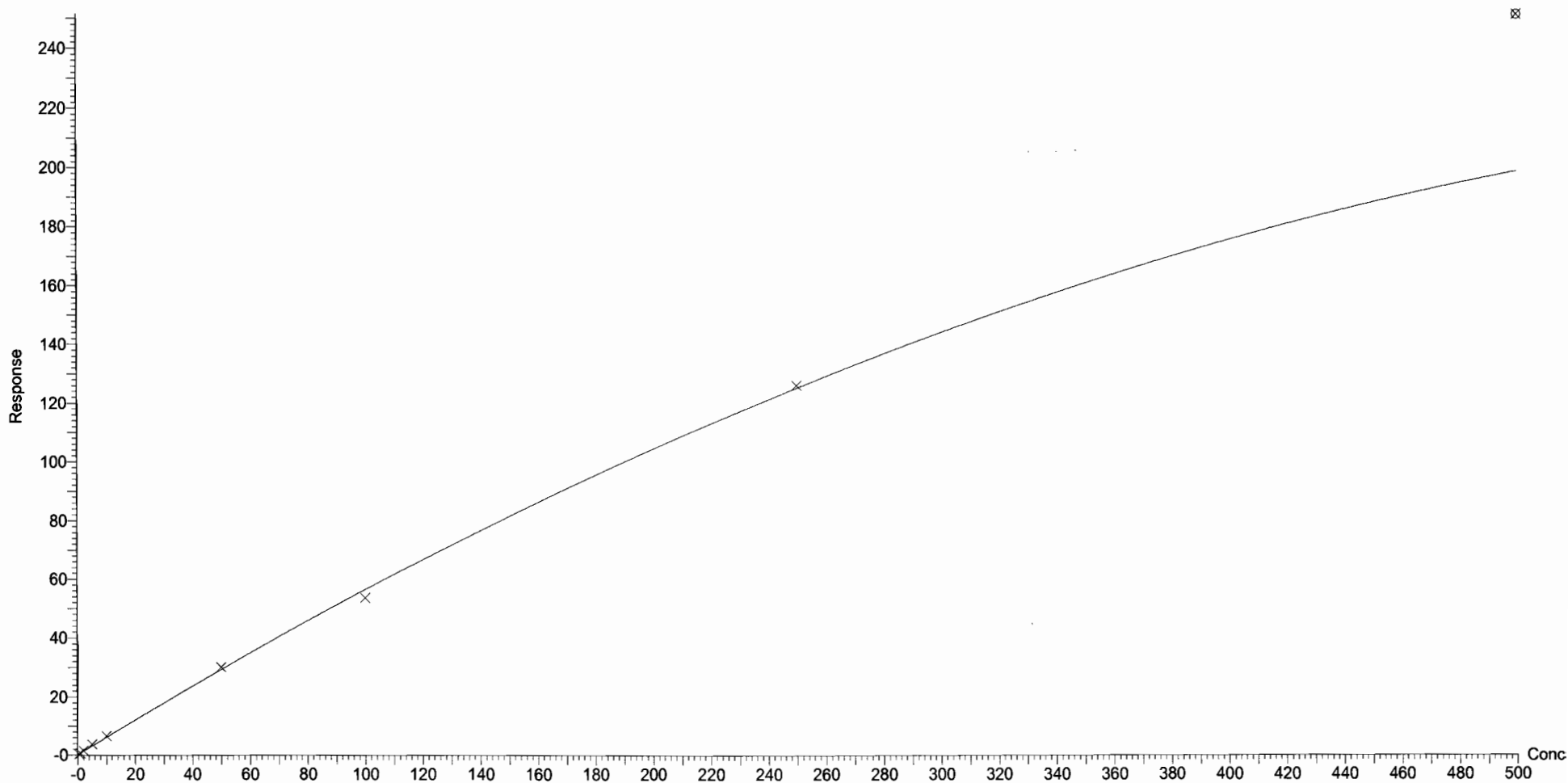
Compound name: PFHxDA

Coefficient of Determination:  $R^2 = 0.997934$

Calibration curve:  $-0.000413371 * x^2 + 0.603676 * x + 0.10836$

Response type: Internal Std ( Ref 51 ), 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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

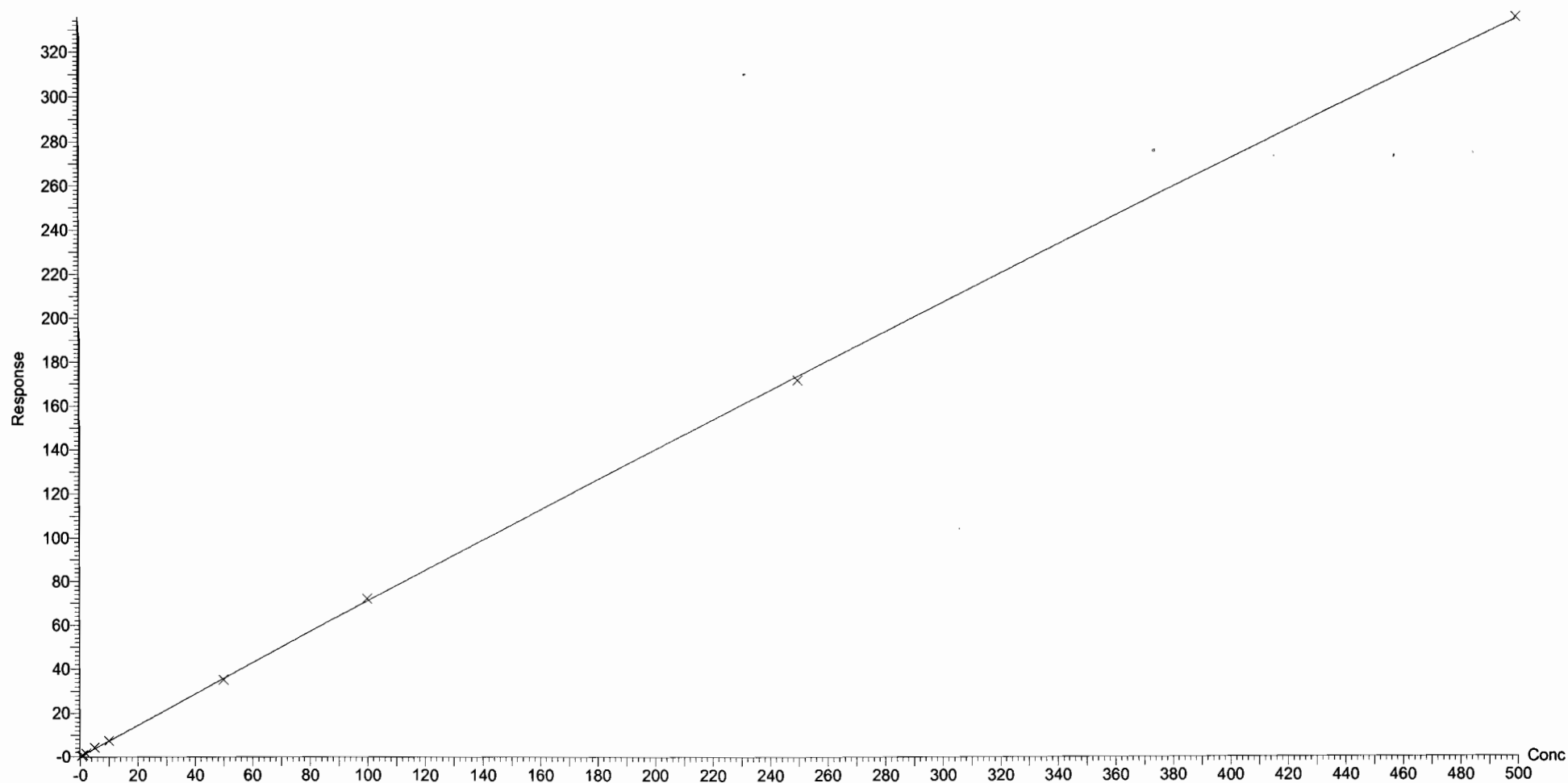
Compound name: PFODA

Coefficient of Determination:  $R^2 = 0.999739$

Calibration curve:  $-9.55471e-005 * x^2 + 0.71766 * x + 0.0397523$

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\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

Compound name: N-MeFOSE

Correlation coefficient:  $r = 0.995709$ ,  $r^2 = 0.991436$

Calibration curve:  $1.06085 * x + 0.164172$

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

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



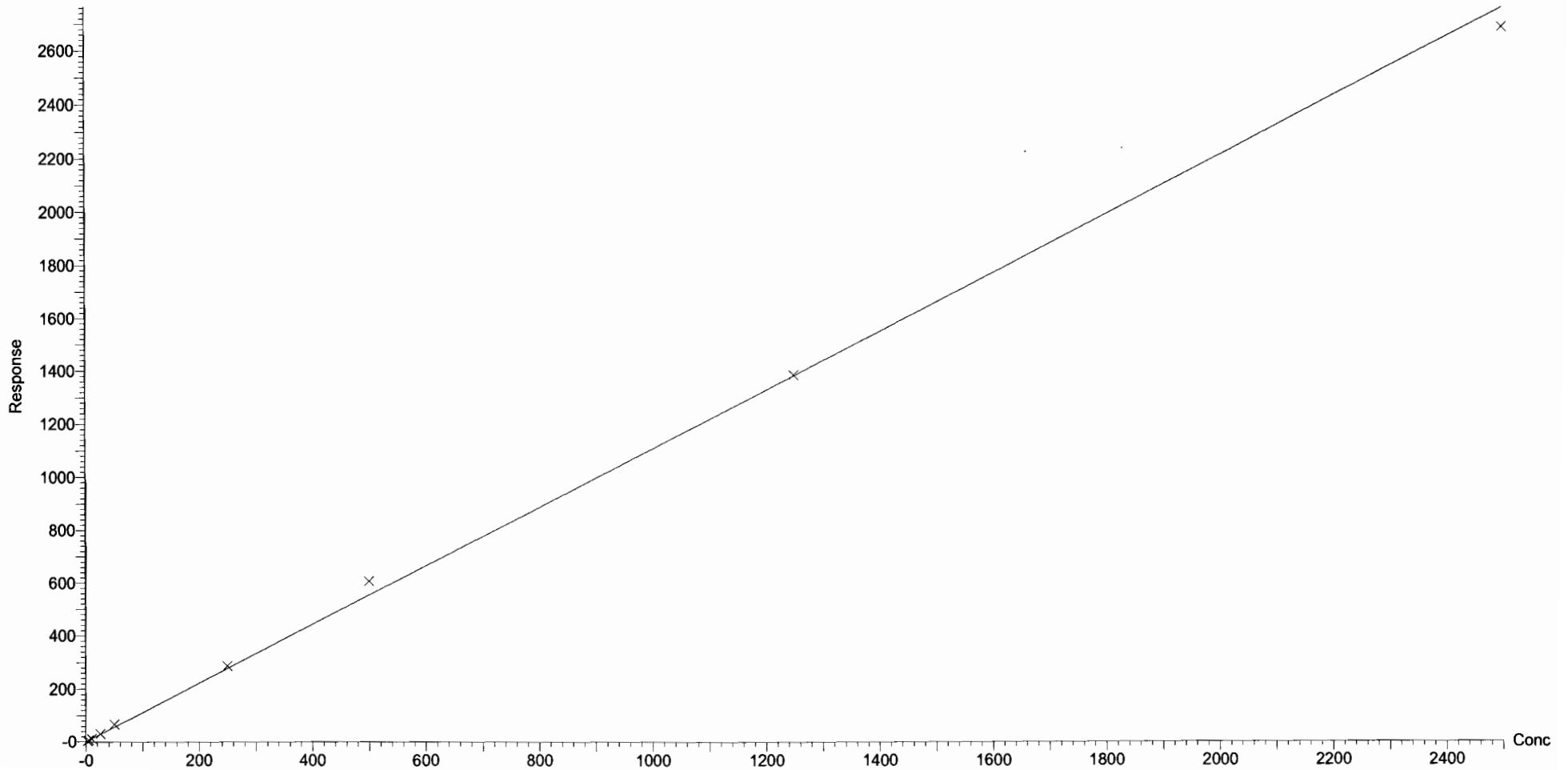


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:44:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:46:09 Pacific Standard Time

Compound name: N-EtFOSE  
Correlation coefficient:  $r = 0.999073$ ,  $r^2 = 0.998147$   
Calibration curve:  $1.10522 * x + 0.402241$   
Response type: Internal Std ( Ref 53 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: Untitled

Last Altered: Tuesday, December 26, 2017 11:52:45 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:53:11 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 11:18:32

Calibration: 26 Dec 2017 11:52:45

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171224M1_1	IPA	24-Dec-17	12:25:39
2	171224M1_2	ST171224M1-1 PFC CS-2 17L1202	24-Dec-17	12:36:49
3	171224M1_3	ST171224M1-2 PFC CS-1 17L1203	24-Dec-17	12:47:59
4	171224M1_4	ST171224M1-3 PFC CS0 17L1204	24-Dec-17	12:59:10
5	171224M1_5	ST171224M1-4 PFC CS1 17L1205	24-Dec-17	13:10:21
6	171224M1_6	ST171224M1-5 PFC CS2 17L1802	24-Dec-17	13:21:32
7	171224M1_7	ST171224M1-6 PFC CS3 17L1207	24-Dec-17	13:32:42
8	171224M1_8	ST171224M1-7 PFC CS4 17L1208	24-Dec-17	13:43:53
9	171224M1_9	ST171224M1-8 PFC CS5 17L1209	24-Dec-17	13:55:03
10	171224M1_10	ST171224M1-9 PFC CS6 17L1803	24-Dec-17	14:06:14
11	171224M1_11	ST171224M1-10 PFC CS7 17L1804	24-Dec-17	14:17:25
12	171224M1_12	IPA	24-Dec-17	14:28:35
13	171224M1_13	ICV171224M1-1 PFC ICV 17L1201	24-Dec-17	14:39:47
14	171224M1_14	IPA	24-Dec-17	14:50:57
15	171224M1_15	B7L0037-BS1 OPR 0.25	24-Dec-17	15:02:08
16	171224M1_16	B7L0037-BSD1 LCSD 0.25	24-Dec-17	15:13:19
17	171224M1_17	IPA	24-Dec-17	15:24:29
18	171224M1_18	B7L0037-BLK1 Method Blank 0.25	24-Dec-17	15:35:40
19	171224M1_19	1701799-01 MTBE_14102 0.24791	24-Dec-17	15:46:51
20	171224M1_20	1701809-01 62 Townsend Way 0.11675	24-Dec-17	15:58:01
21	171224M1_21	1701809-02 72 Townsend Way 0.11358	24-Dec-17	16:09:12
22	171224M1_22	1701822-01 WR1711291350MK 0.25256	24-Dec-17	16:20:23
23	171224M1_23	1701822-02 WT1711291410MK 0.25428	24-Dec-17	16:31:33
24	171224M1_24	1701822-03 FB1711291415MK 0.25507	24-Dec-17	16:42:44
25	171224M1_25	1701822-04 WT1711291430MK 0.25342	24-Dec-17	16:53:55
26	171224M1_26	1701822-05 WT1711291445MK 0.25014	24-Dec-17	17:05:05
27	171224M1_27	1701822-06 WT1711291525MK 0.24603	24-Dec-17	17:16:16
28	171224M1_28	1701822-07 WT1711291530MK 0.24388	24-Dec-17	17:27:27
29	171224M1_29	IPA	24-Dec-17	17:38:38
30	171224M1_30	ST171224M1-11 PFC CS3 17L1207	24-Dec-17	17:49:48
31	171224M1_31	IPA	24-Dec-17	18:00:59

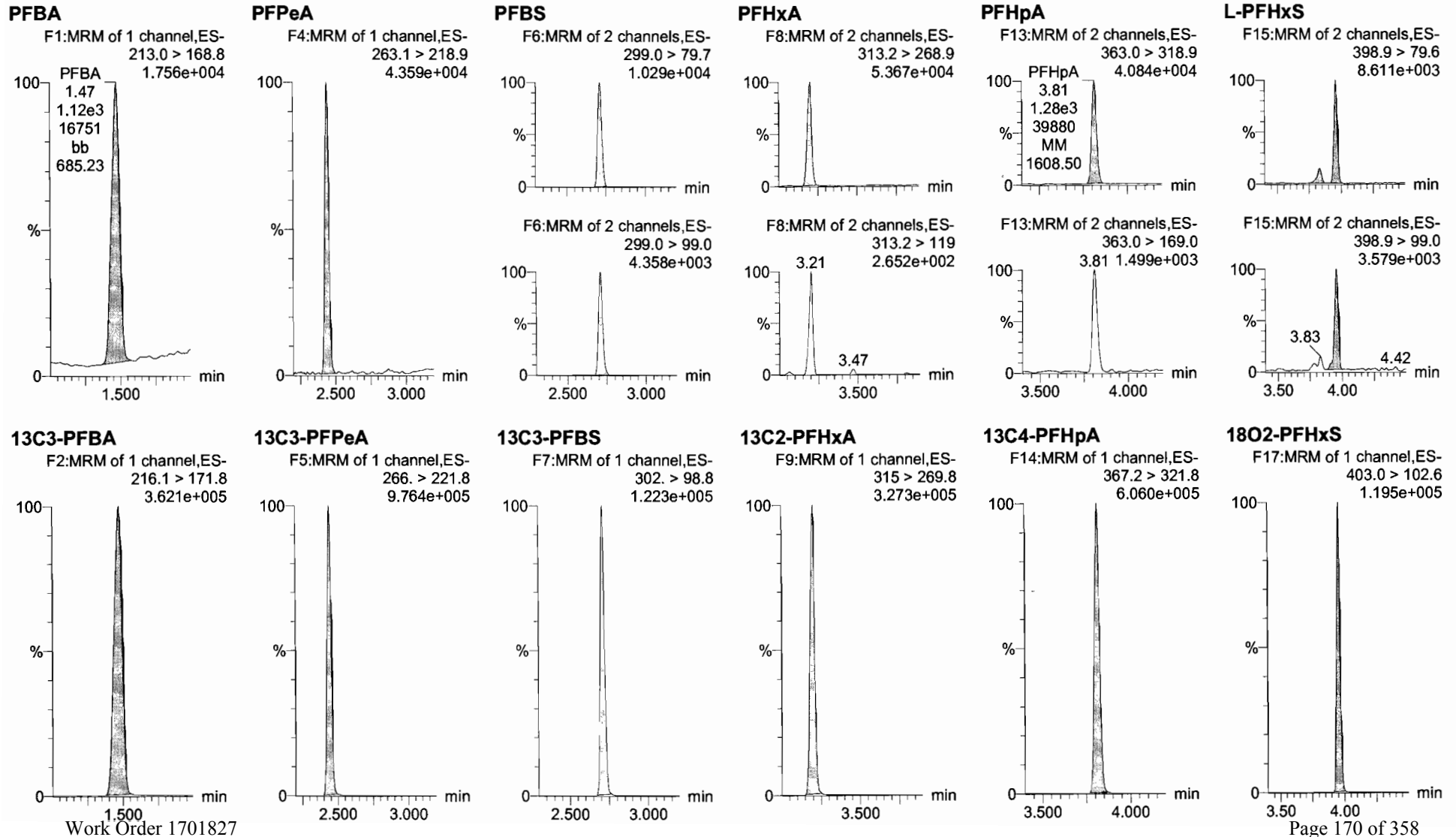
Ⓐ Not used

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 10:08:34  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:25:25

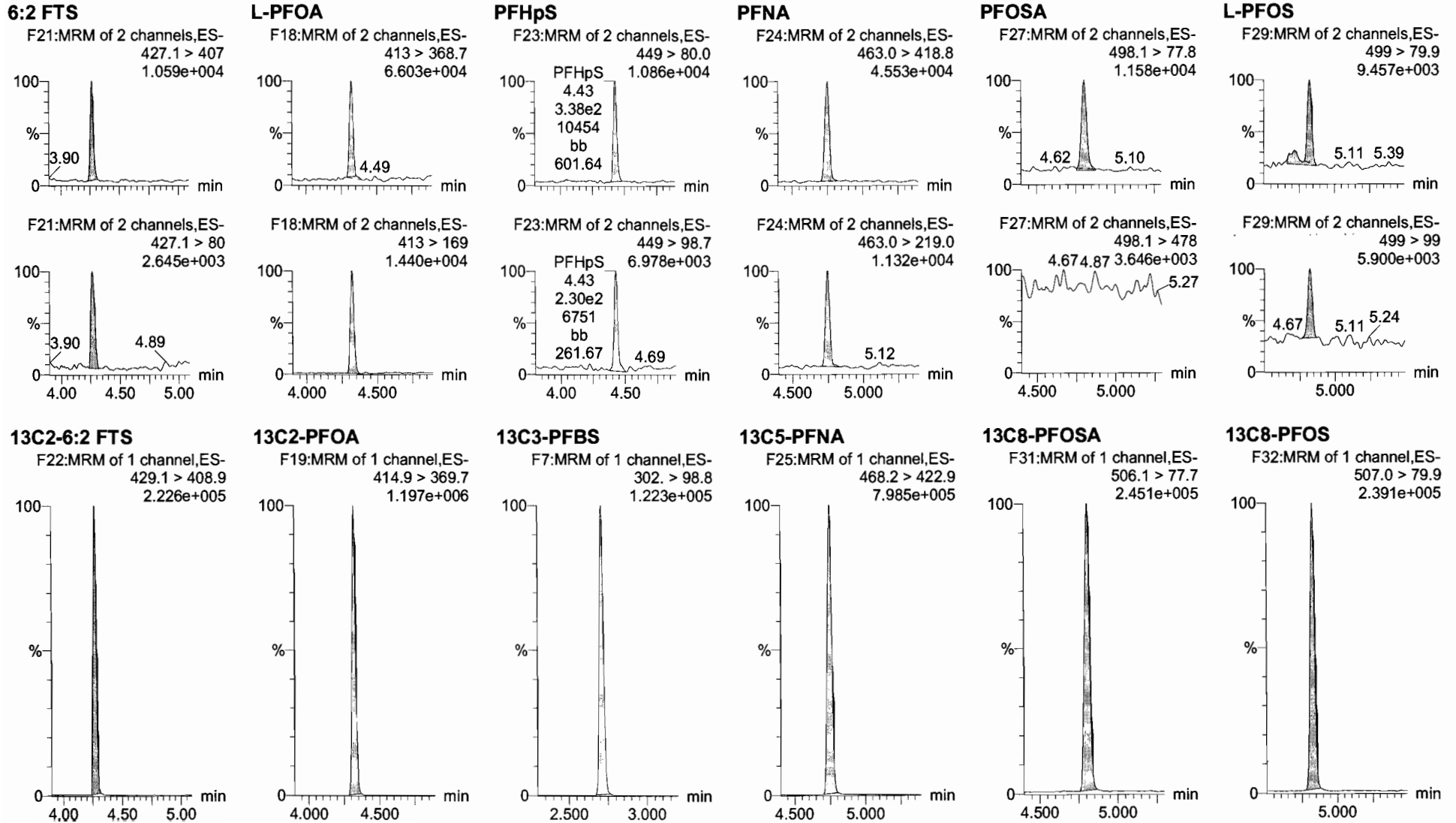
Name: 171224M1\_3, Date: 24-Dec-2017, Time: 12:47:59, ID: ST171224M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_3, Date: 24-Dec-2017, Time: 12:47:59, ID: ST171224M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

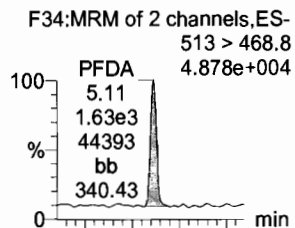


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

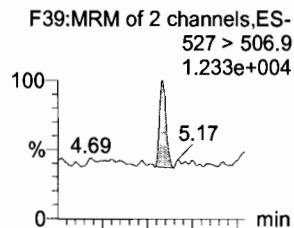
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_3, Date: 24-Dec-2017, Time: 12:47:59, ID: ST171224M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

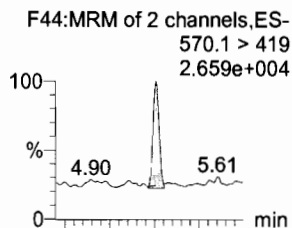
**PFDA**



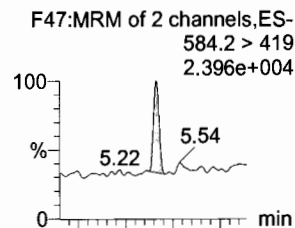
**8:2 FTS**



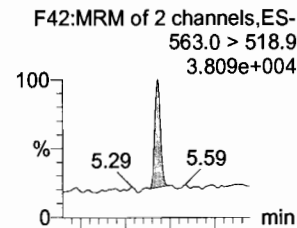
**N-MeFOSAA**



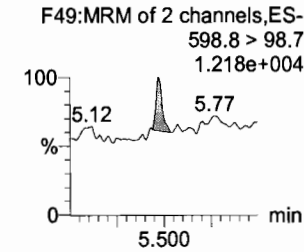
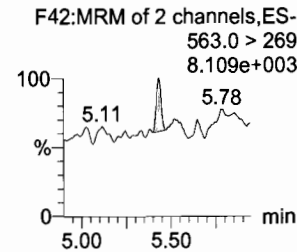
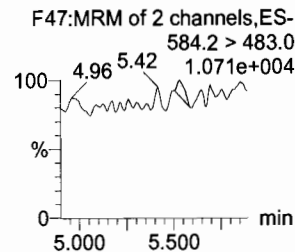
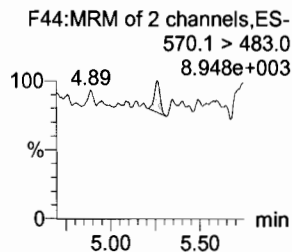
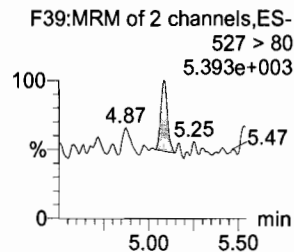
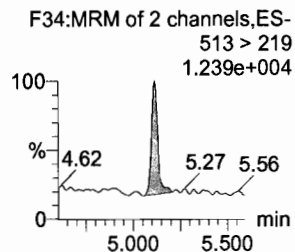
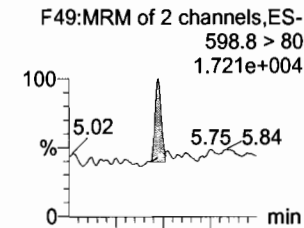
**N-EtFOSAA**



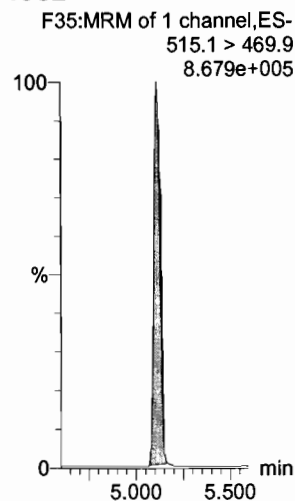
**PFUdA**



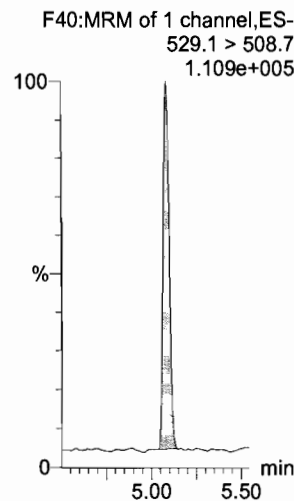
**PFDS**



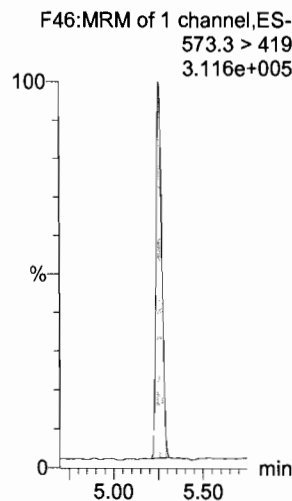
**13C2-PFDA**



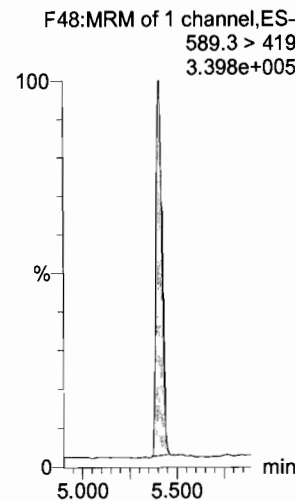
**13C2-8:2 FTS**



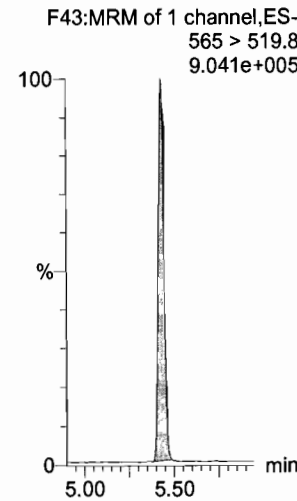
**d3-N-MeFOSAA**



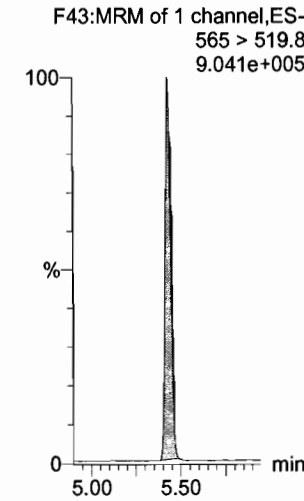
**d5-N-EtFOSAA**



**13C2-PFUdA**



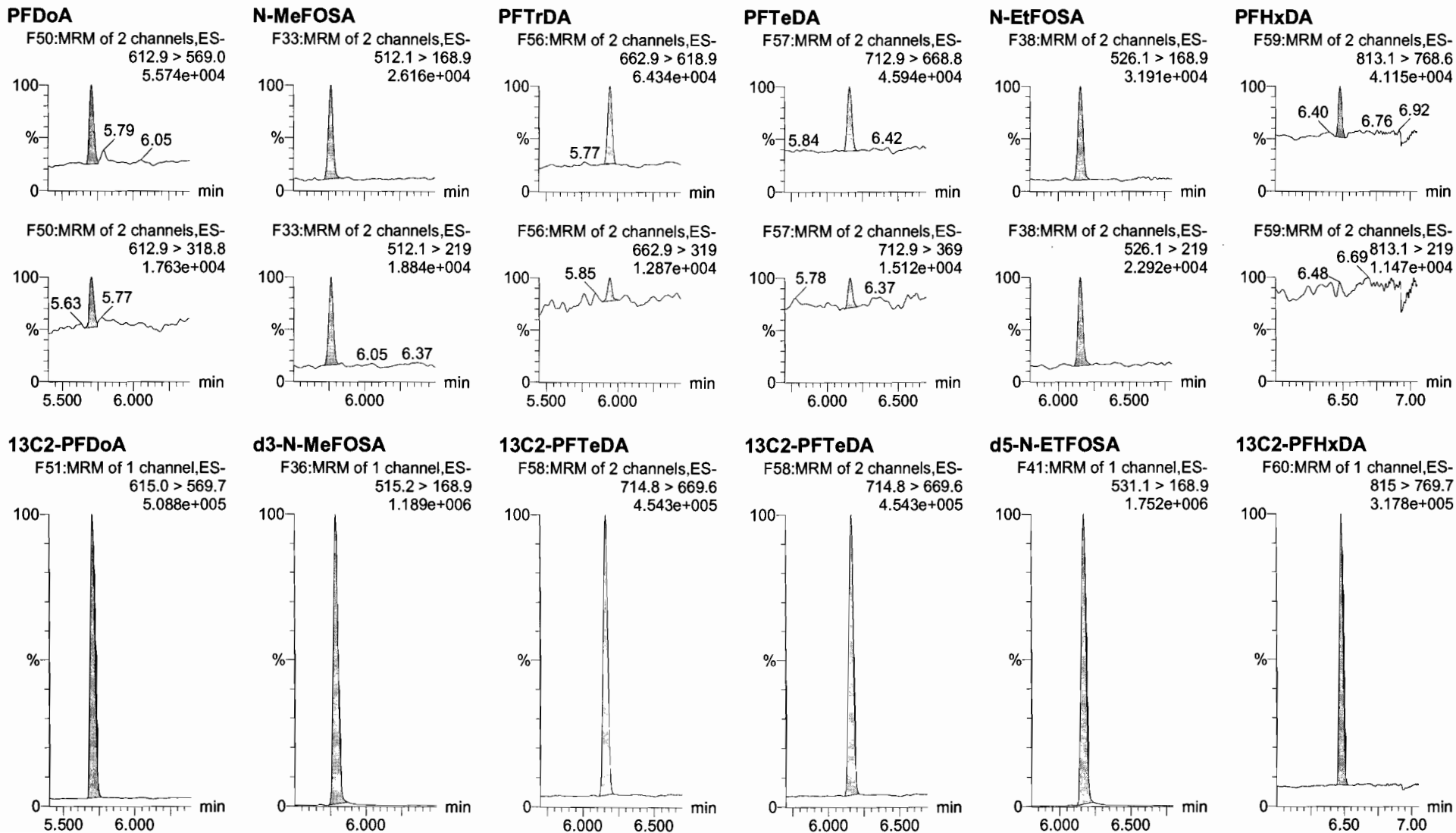
**13C2-PFDS**



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_3, Date: 24-Dec-2017, Time: 12:47:59, ID: ST171224M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

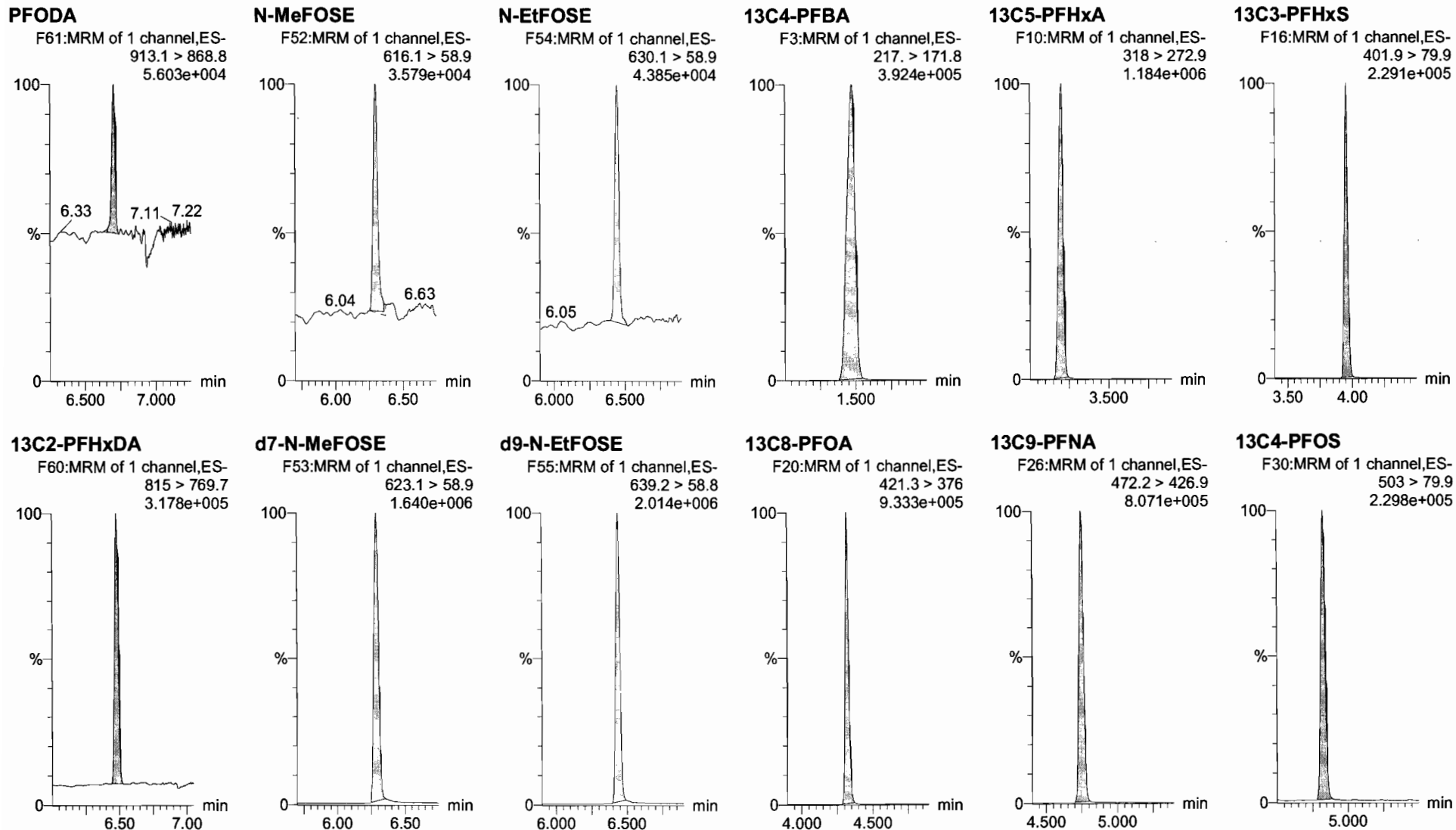


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_3, Date: 24-Dec-2017, Time: 12:47:59, ID: ST171224M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

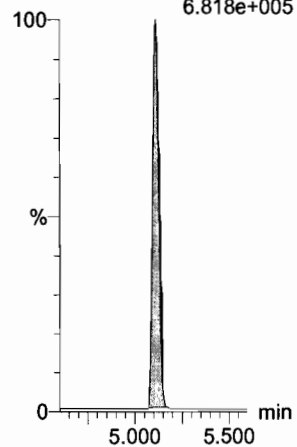
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_3, Date: 24-Dec-2017, Time: 12:47:59, ID: ST171224M1-2 PFC CS-1 17L1203, Description: PFC CS-1 17L1203

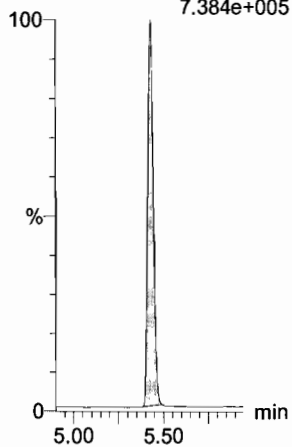
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
6.818e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
7.384e+005



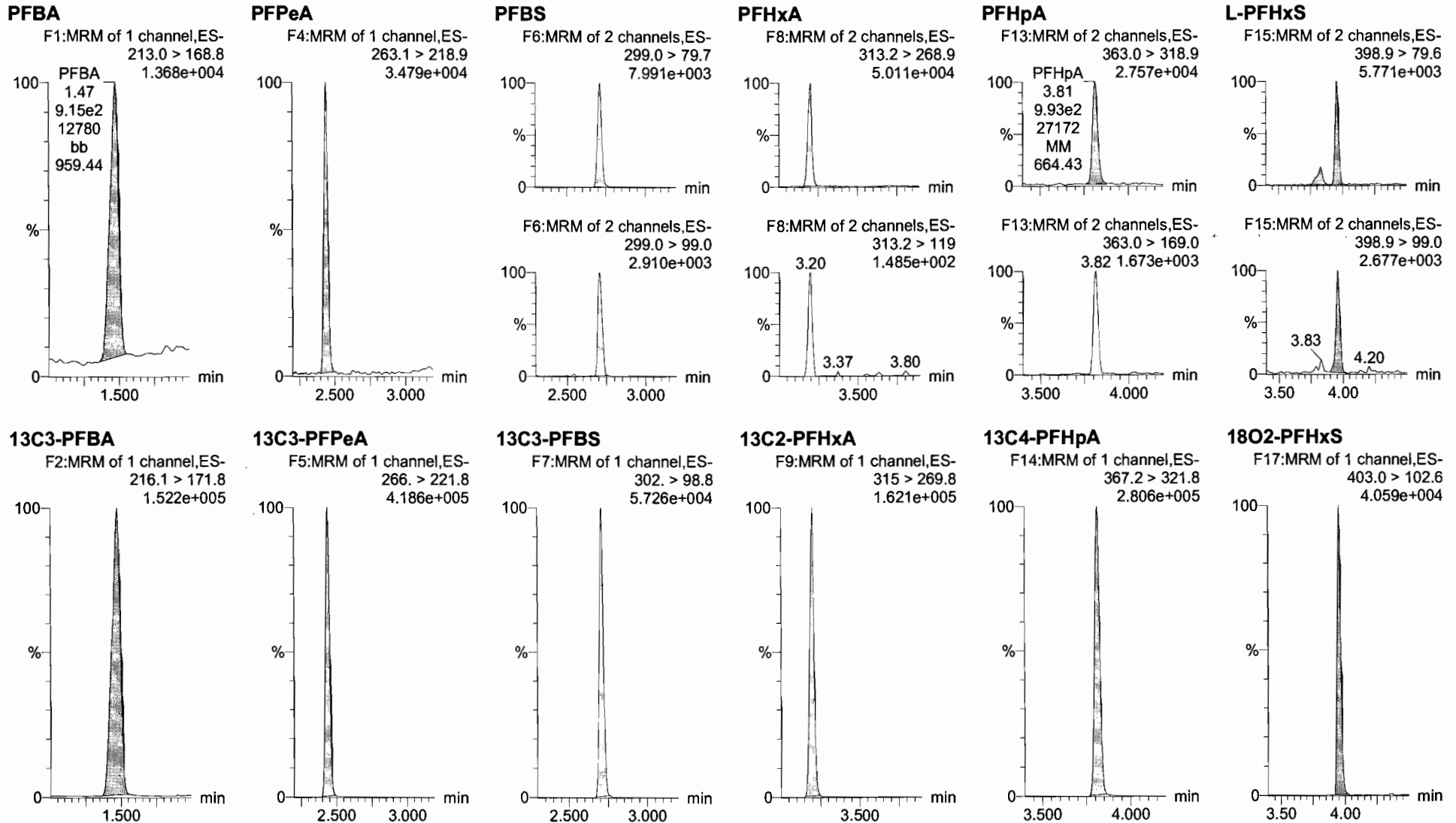


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_4, Date: 24-Dec-2017, Time: 12:59:10, ID: ST171224M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

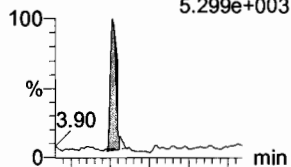
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

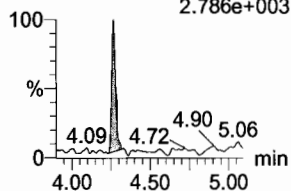
Name: 171224M1\_4, Date: 24-Dec-2017, Time: 12:59:10, ID: ST171224M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
5.299e+003

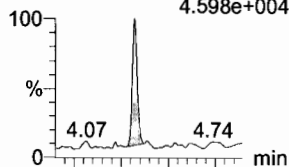


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.786e+003

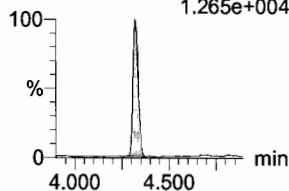


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.598e+004

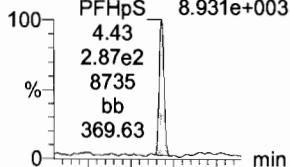


F18:MRM of 2 channels,ES-  
413 > 169  
1.265e+004

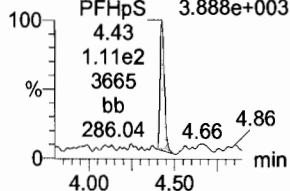


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
8.931e+003

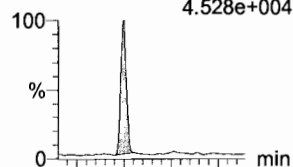


F23:MRM of 2 channels,ES-  
449 > 98.7  
3.888e+003

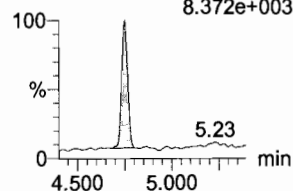


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.528e+004

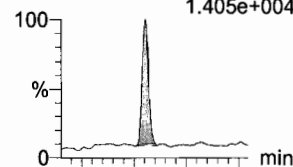


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
8.372e+003

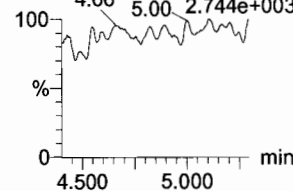


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
1.405e+004

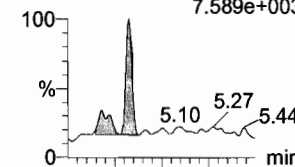


F27:MRM of 2 channels,ES-  
498.1 > 478  
2.744e+003

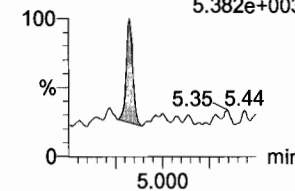


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
7.589e+003

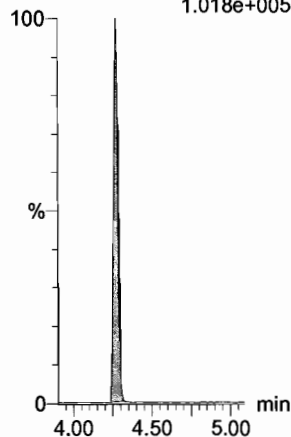


F29:MRM of 2 channels,ES-  
499 > 99  
5.382e+003



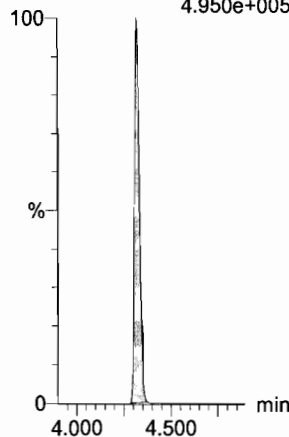
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.018e+005



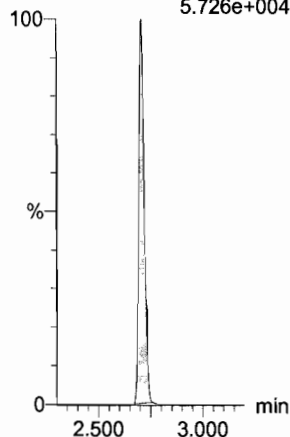
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.950e+005



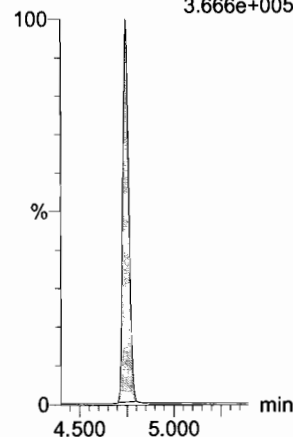
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
5.726e+004



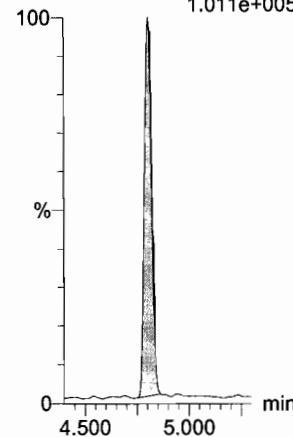
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.666e+005



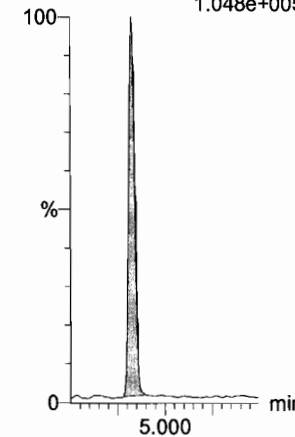
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
1.011e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
1.048e+005



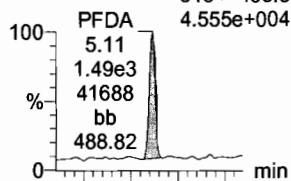
Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_4, Date: 24-Dec-2017, Time: 12:59:10, ID: ST171224M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

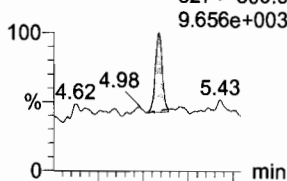
**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
4.555e+004



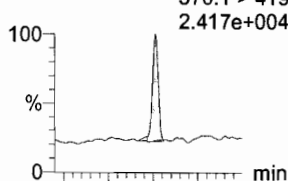
**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
9.656e+003



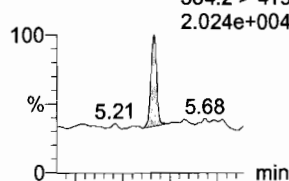
**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
2.417e+004



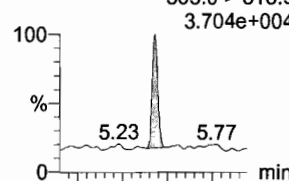
**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
2.024e+004



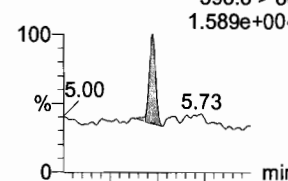
**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
3.704e+004

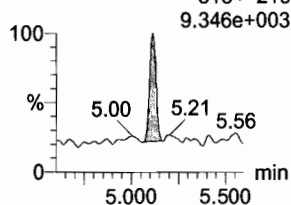


**PFDS**

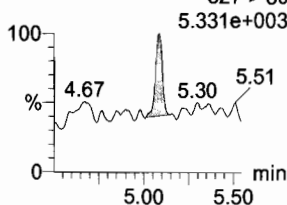
F49:MRM of 2 channels,ES-  
598.8 > 80  
1.589e+004



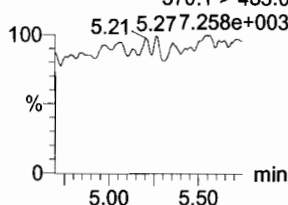
F34:MRM of 2 channels,ES-  
513 > 219  
9.346e+003



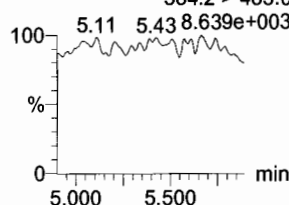
F39:MRM of 2 channels,ES-  
527 > 80  
5.331e+003



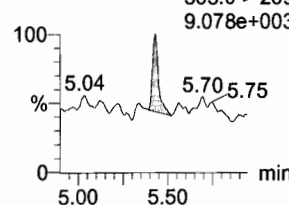
F44:MRM of 2 channels,ES-  
570.1 > 483.0  
5.21 5.277.258e+003



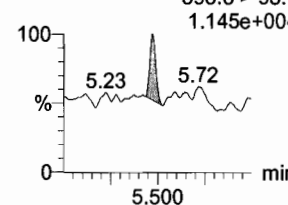
F47:MRM of 2 channels,ES-  
584.2 > 483.0  
5.11 5.43 8.639e+003



F42:MRM of 2 channels,ES-  
563.0 > 269  
9.078e+003

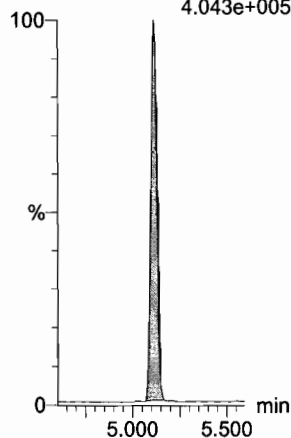


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
1.145e+004



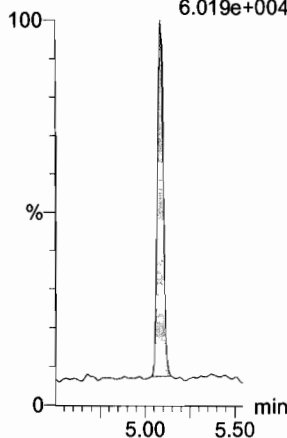
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
4.043e+005



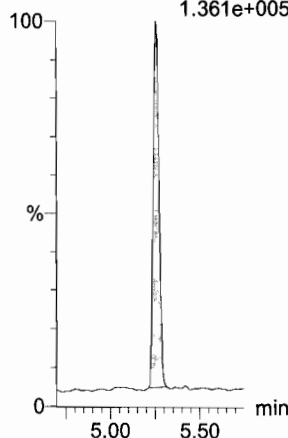
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
6.019e+004



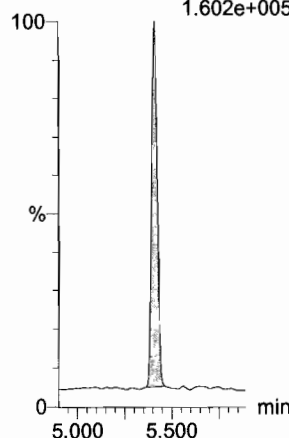
**d3-N-MeFOSAA**

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



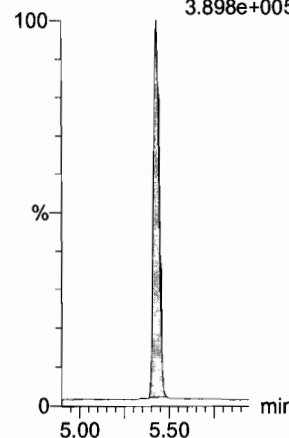
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.602e+005



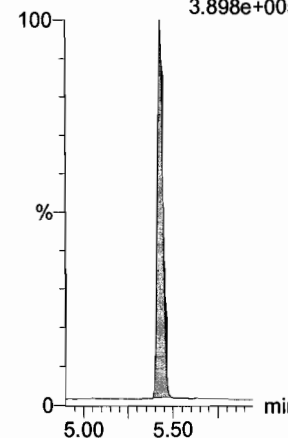
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.898e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.898e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

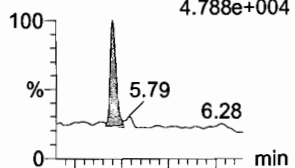
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

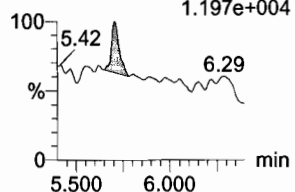
Name: 171224M1\_4, Date: 24-Dec-2017, Time: 12:59:10, ID: ST171224M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

**PFDoA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
4.788e+004

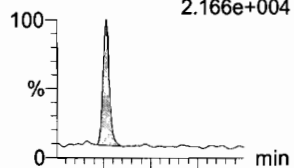


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
1.197e+004

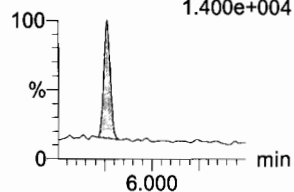


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.166e+004

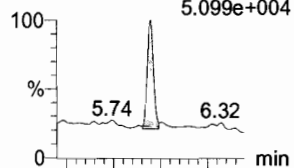


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.400e+004

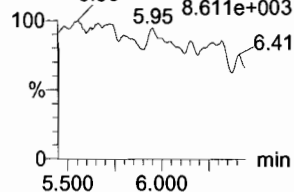


**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
5.099e+004

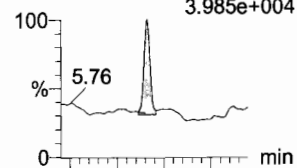


F56:MRM of 2 channels,ES-  
662.9 > 319  
8.611e+003

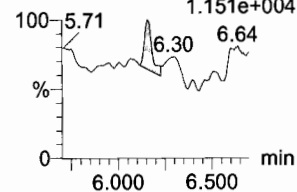


**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
3.985e+004

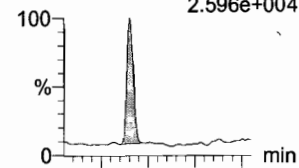


F57:MRM of 2 channels,ES-  
712.9 > 369  
1.151e+004

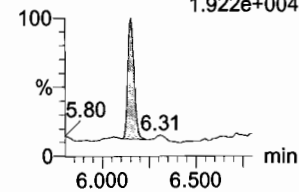


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.596e+004

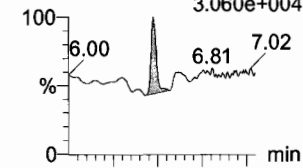


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.922e+004

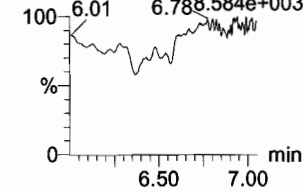


**PFHxDA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
3.060e+004

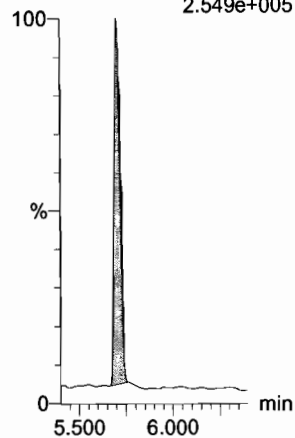


F59:MRM of 2 channels,ES-  
813.1 > 219  
1.922e+004



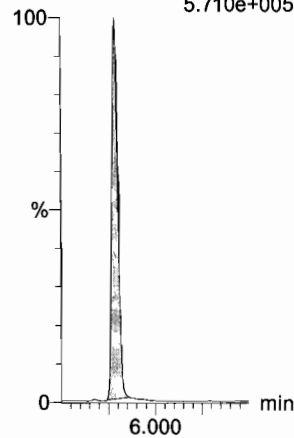
**13C2-PFDoA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.549e+005



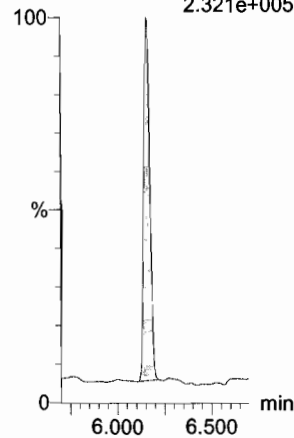
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
5.710e+005



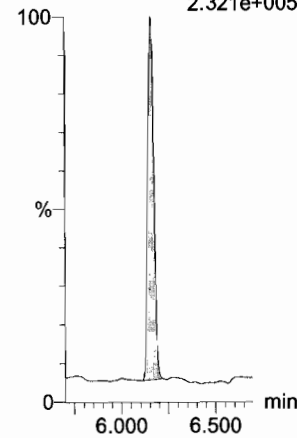
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.321e+005



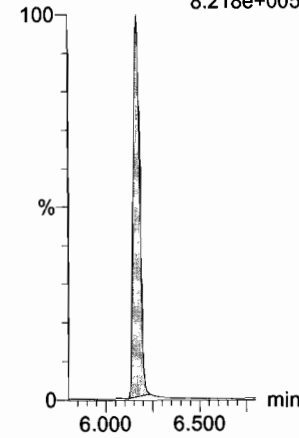
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.321e+005



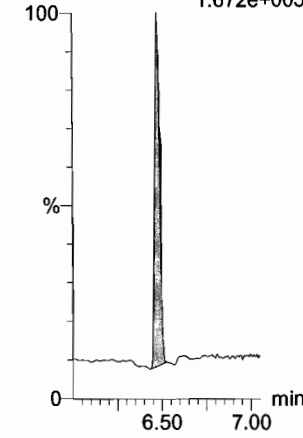
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
8.218e+005



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.672e+005

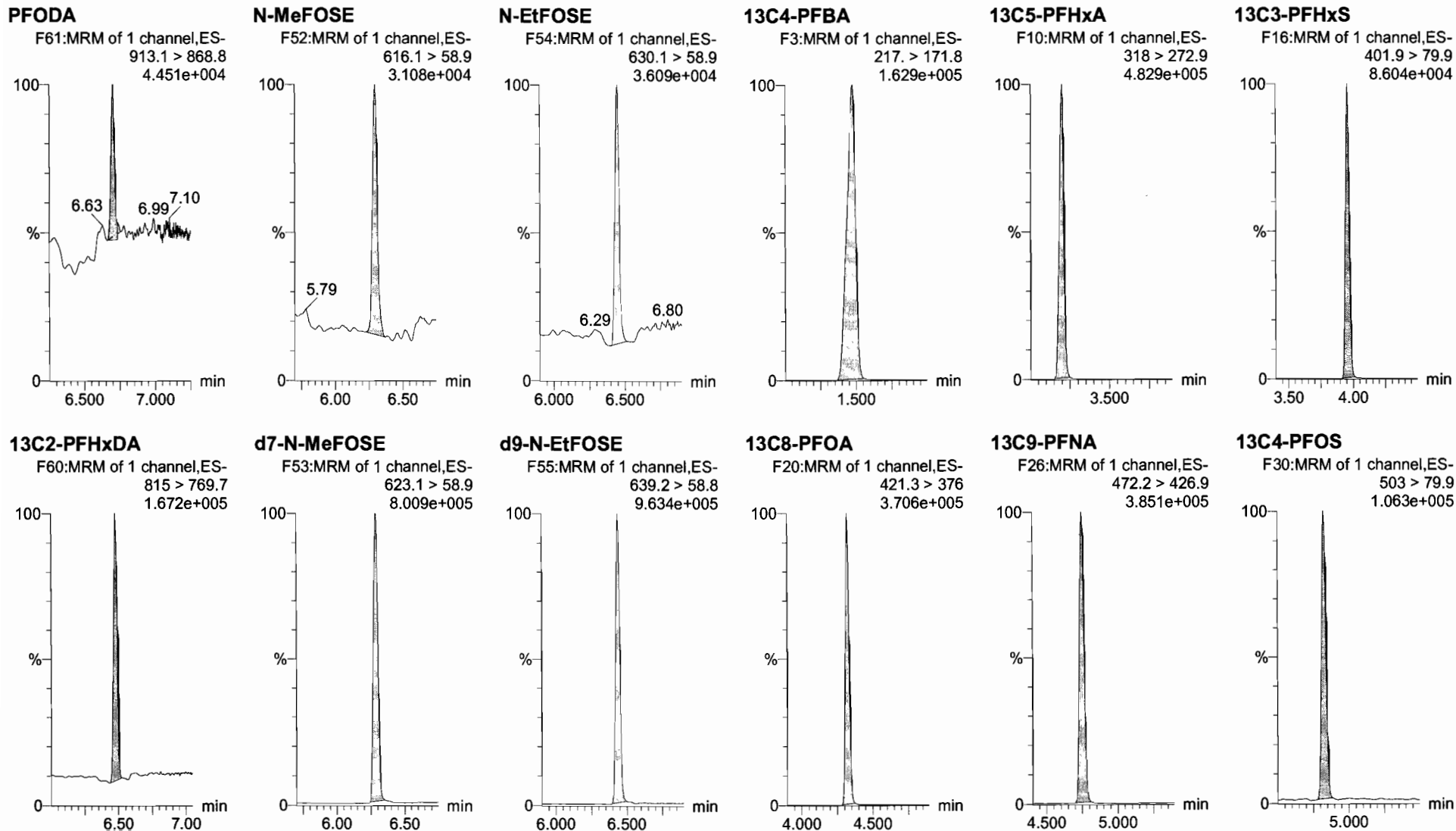


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_4, Date: 24-Dec-2017, Time: 12:59:10, ID: ST171224M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204



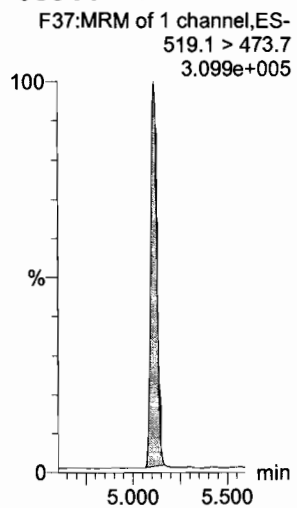
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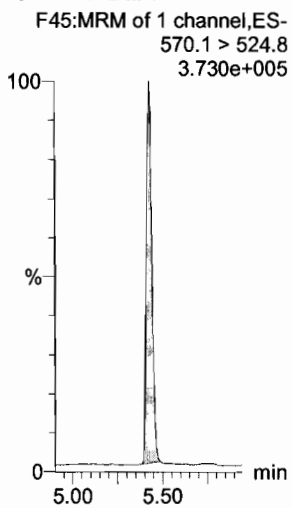
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_4, Date: 24-Dec-2017, Time: 12:59:10, ID: ST171224M1-3 PFC CS0 17L1204, Description: PFC CS0 17L1204

13C6-PFDA



13C7-PFudA

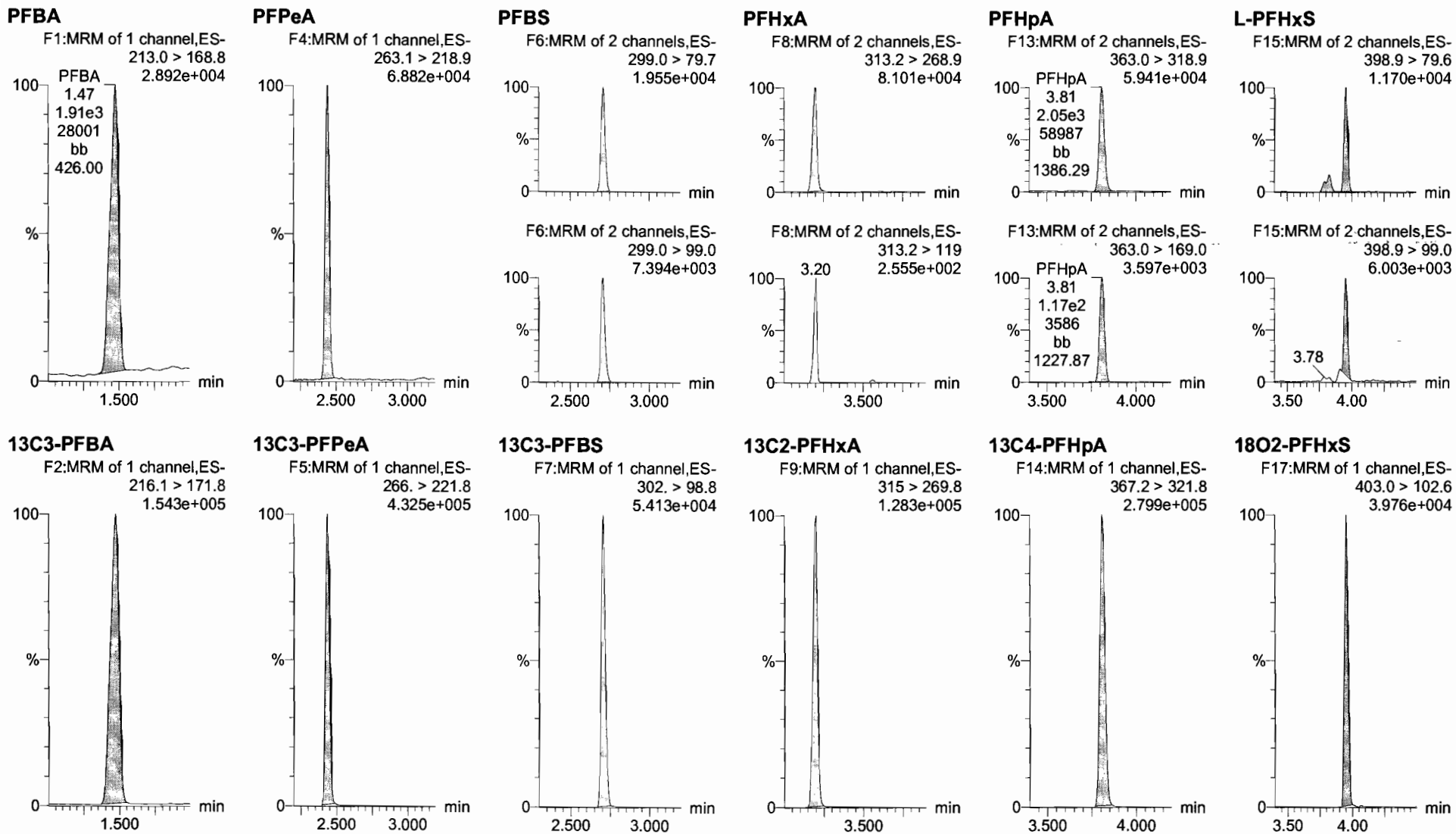


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_5, Date: 24-Dec-2017, Time: 13:10:21, ID: ST171224M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

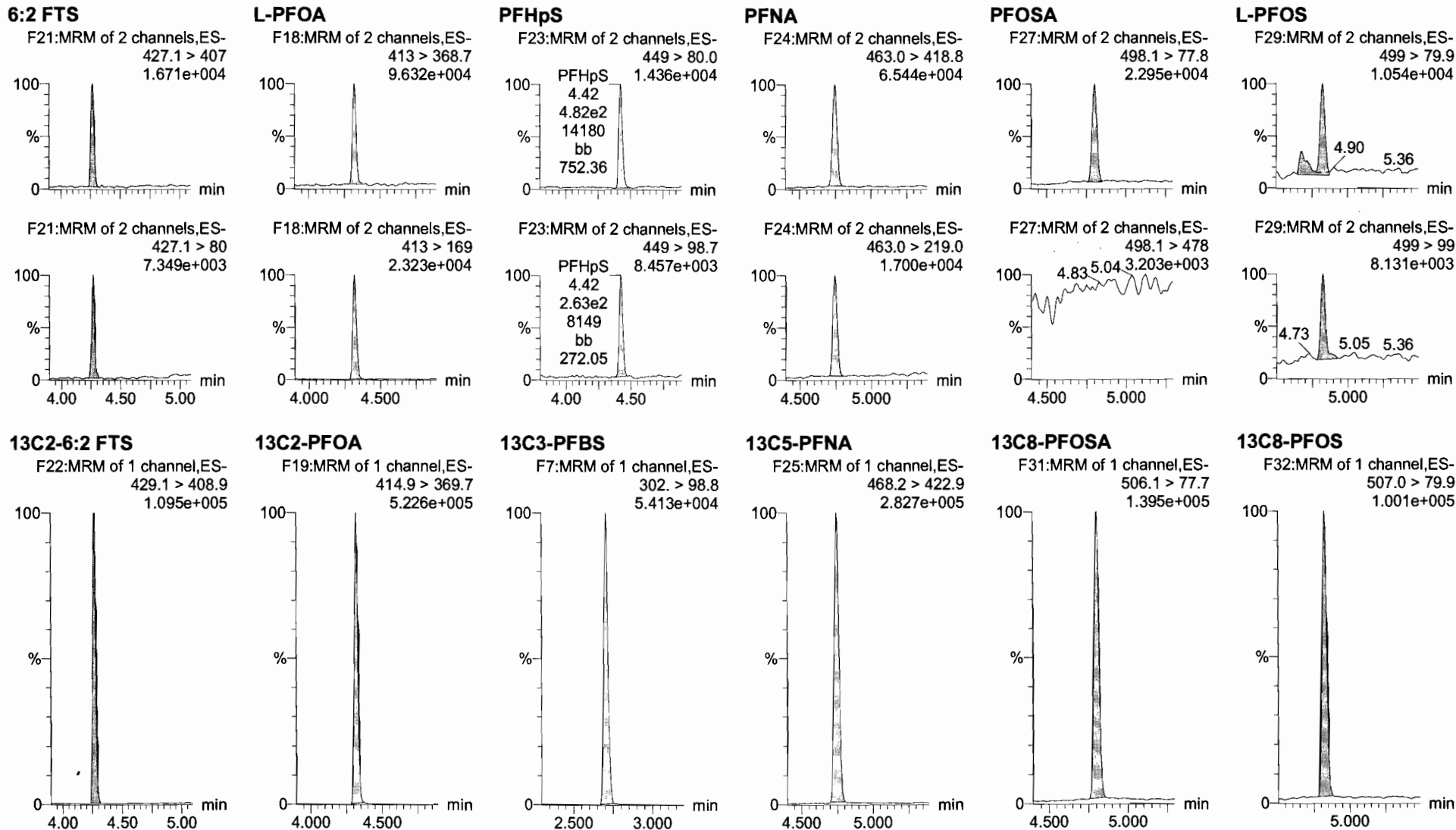


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_5, Date: 24-Dec-2017, Time: 13:10:21, ID: ST171224M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

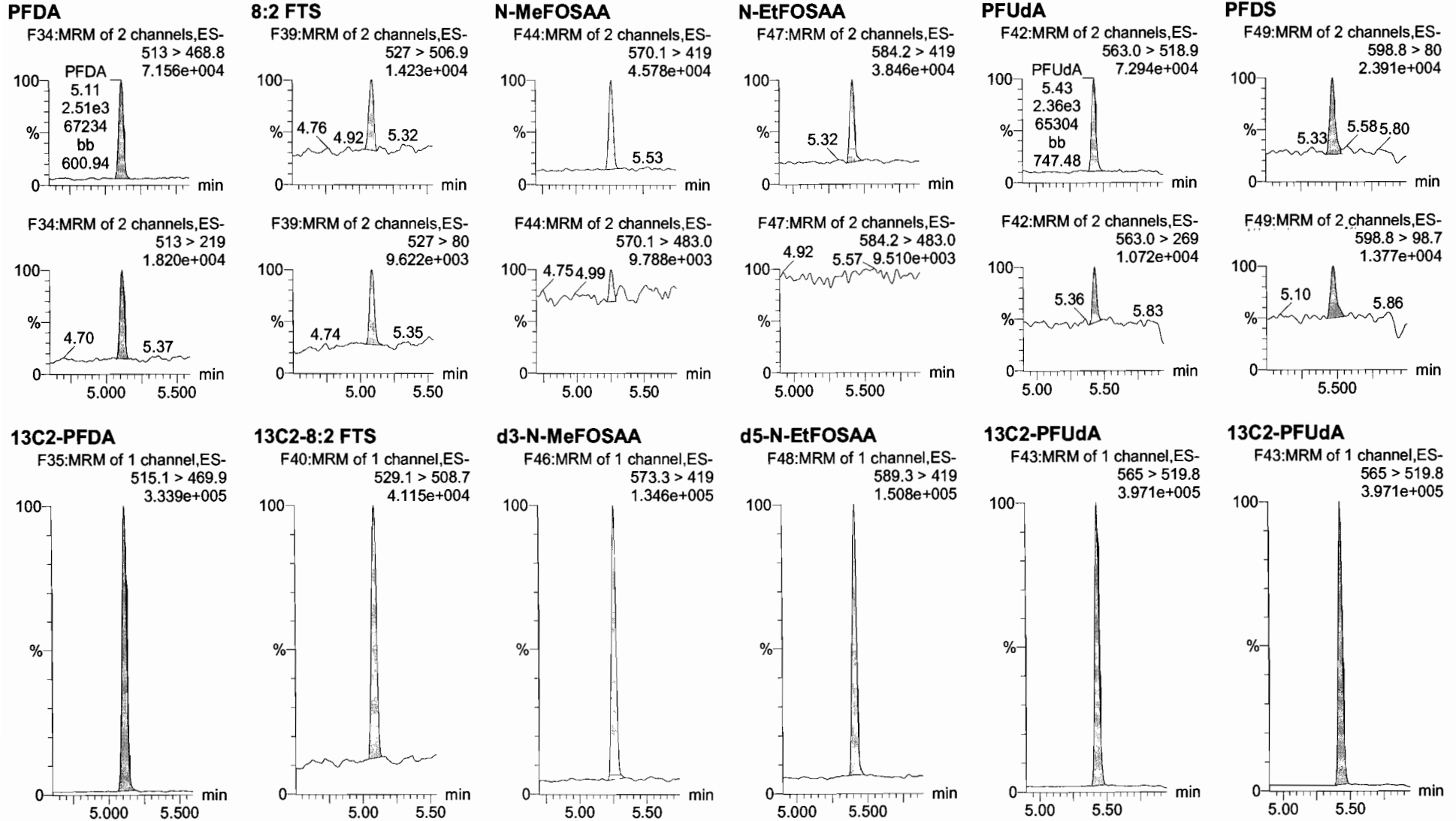




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Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

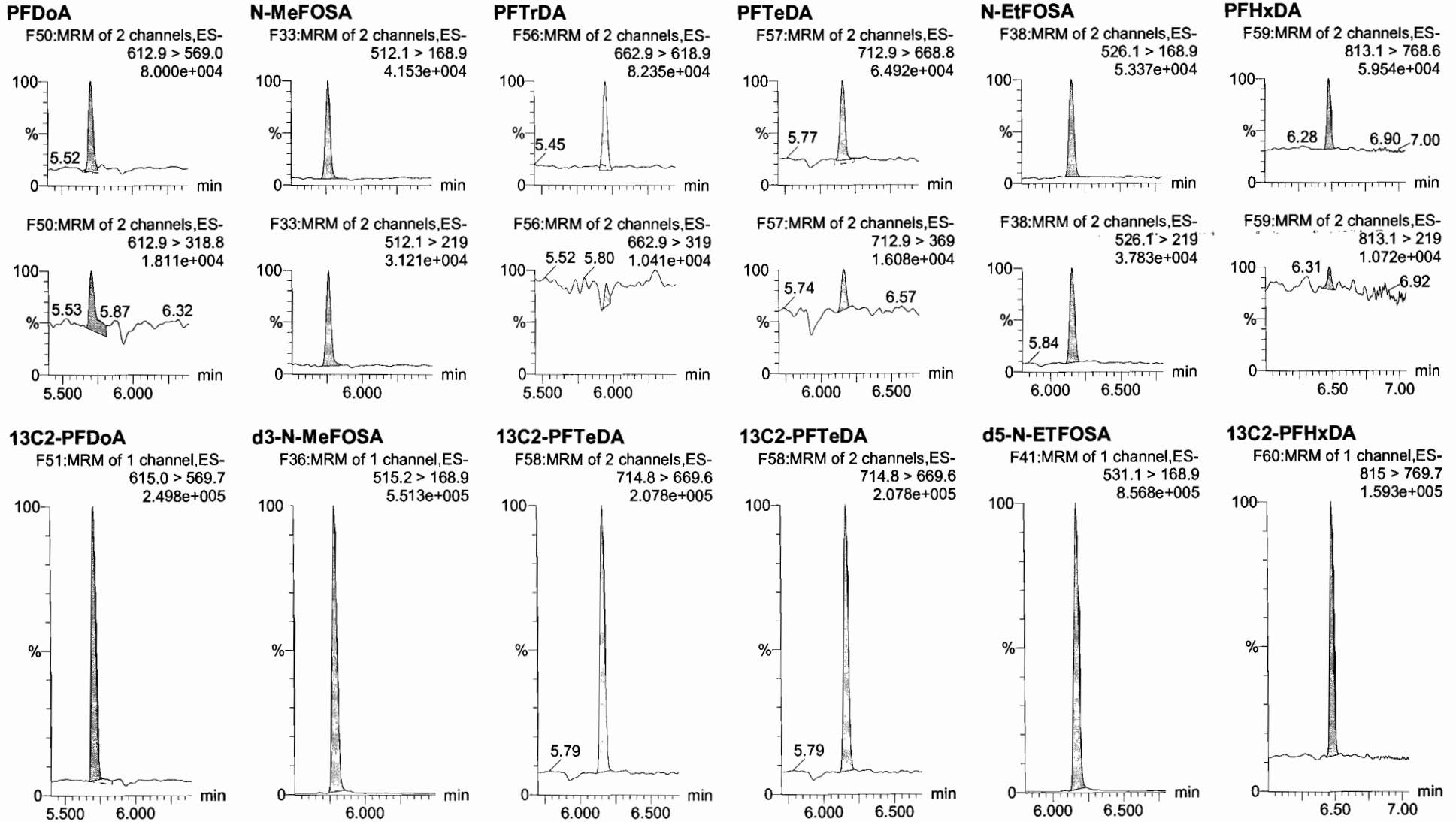
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Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

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Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

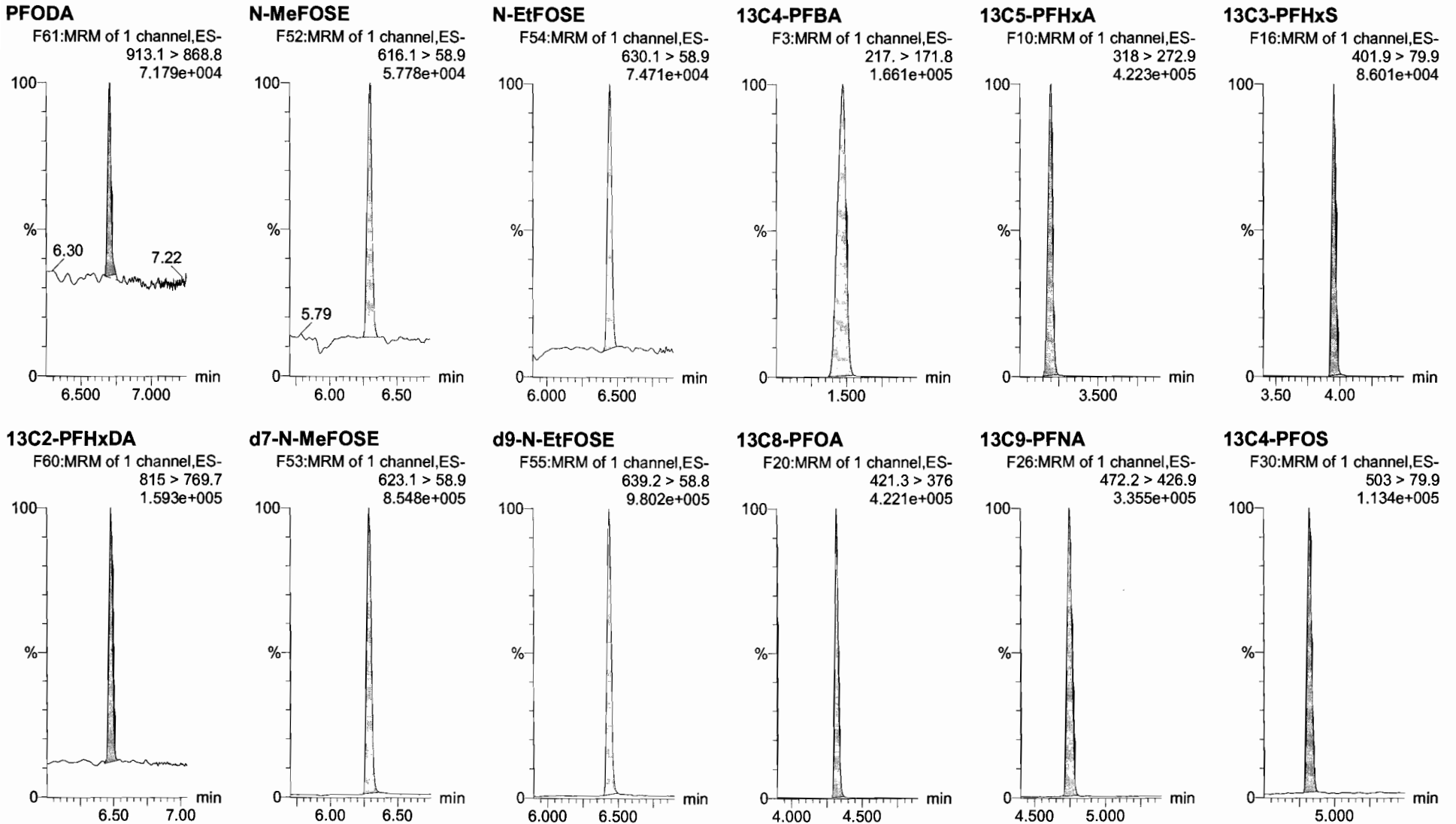
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Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_5, Date: 24-Dec-2017, Time: 13:10:21, ID: ST171224M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

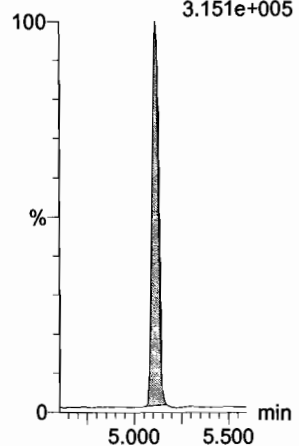
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

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Name: 171224M1\_5, Date: 24-Dec-2017, Time: 13:10:21, ID: ST171224M1-4 PFC CS1 17L1205, Description: PFC CS1 17L1205

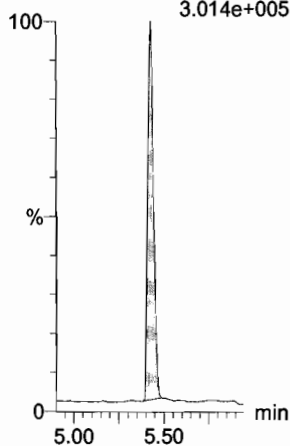
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.151e+005



13C7-PFUdA

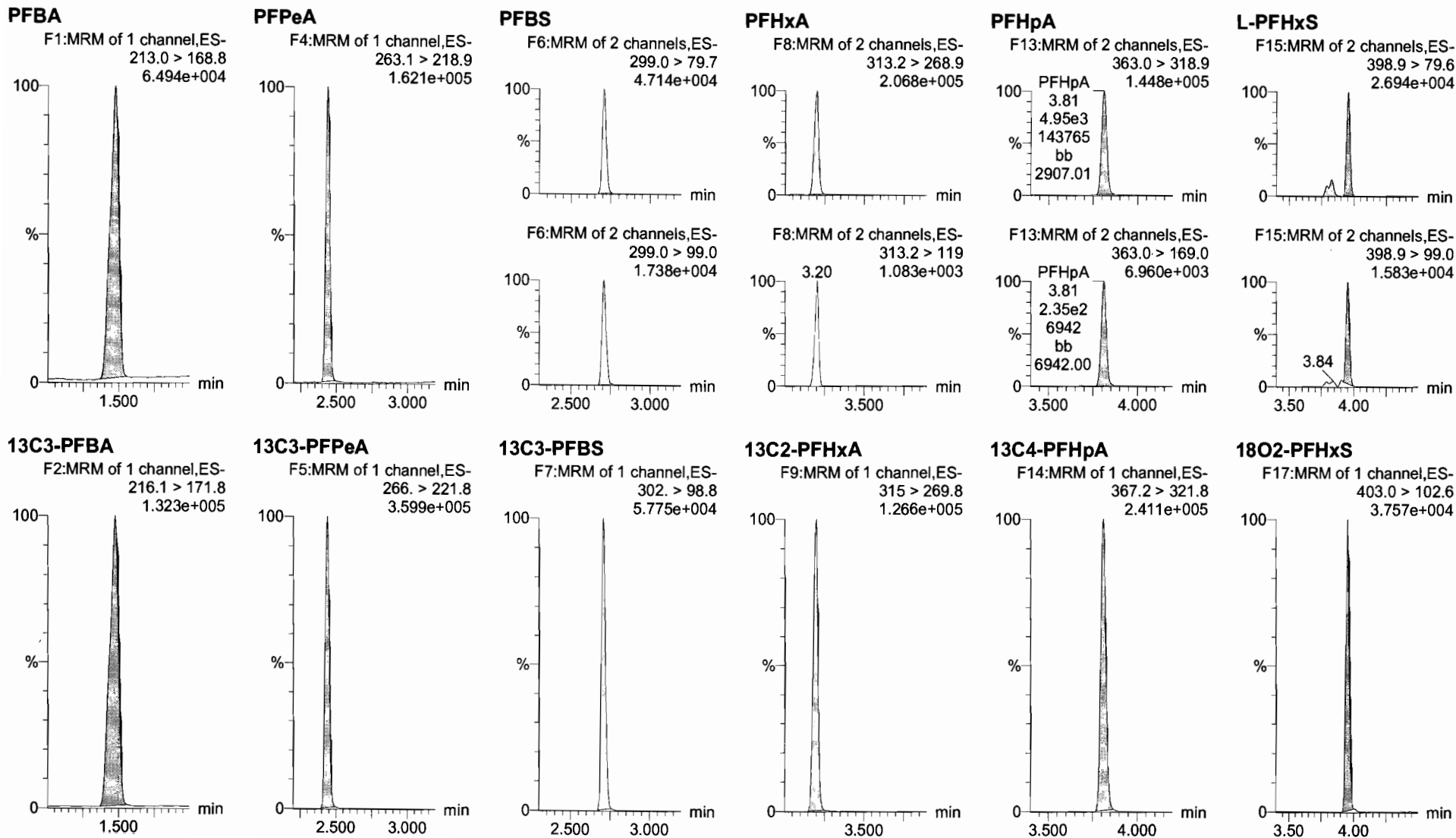
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.014e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_6, Date: 24-Dec-2017, Time: 13:21:32, ID: ST171224M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802

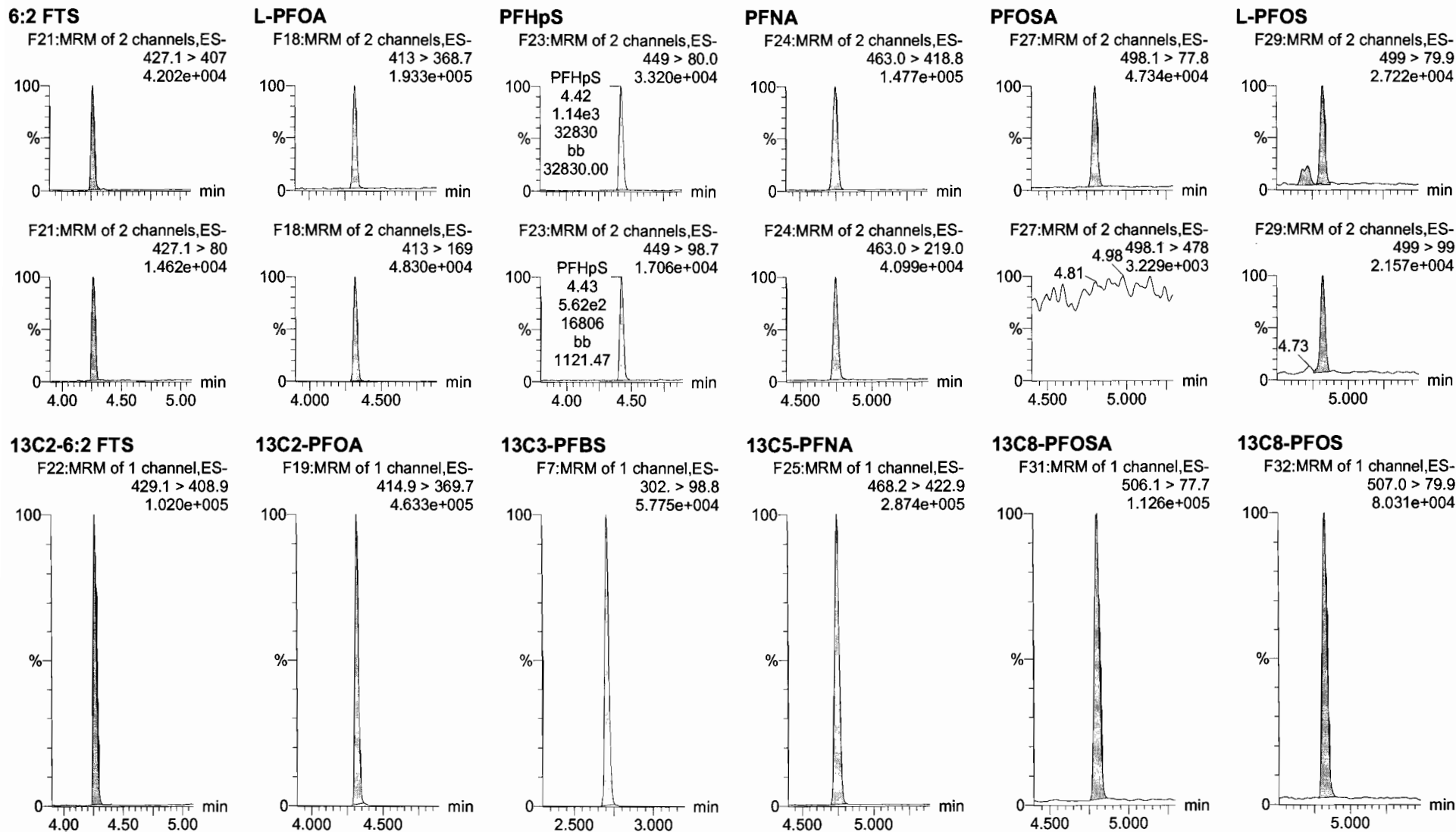


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

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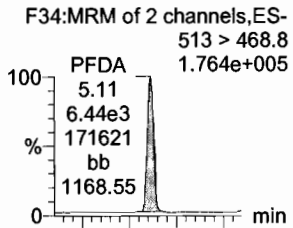
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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

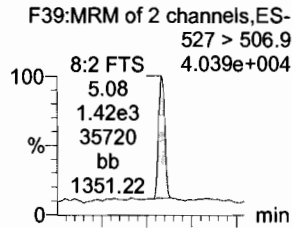
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_6, Date: 24-Dec-2017, Time: 13:21:32, ID: ST171224M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802

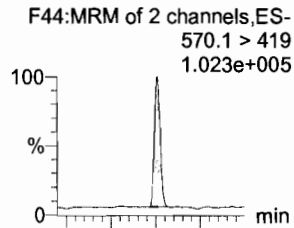
**PFDA**



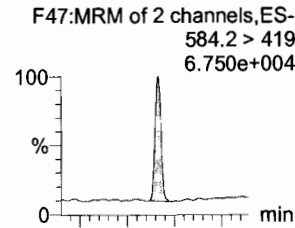
**8:2 FTS**



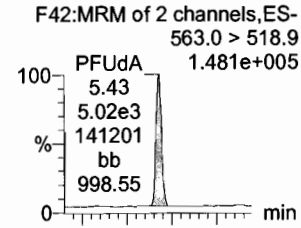
**N-MeFOSAA**



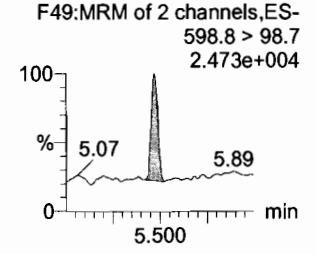
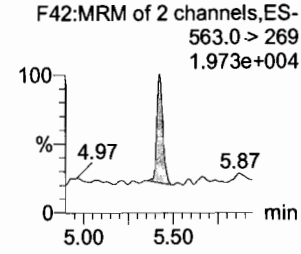
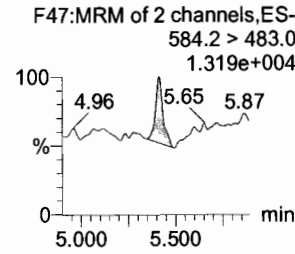
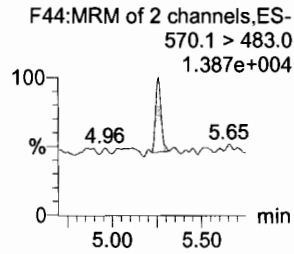
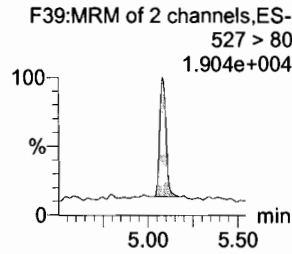
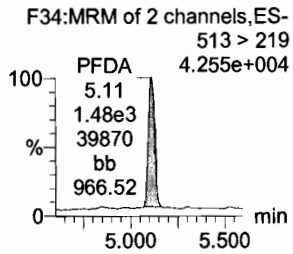
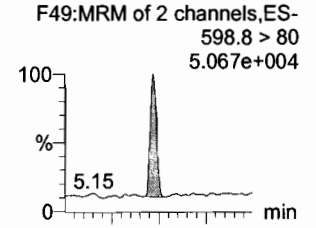
**N-EtFOSAA**



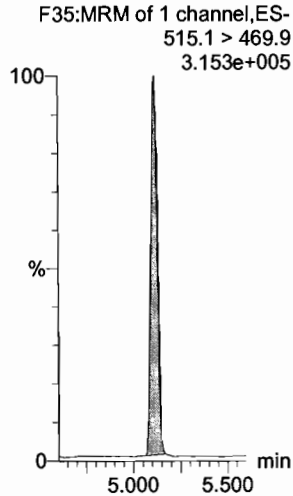
**PFUdA**



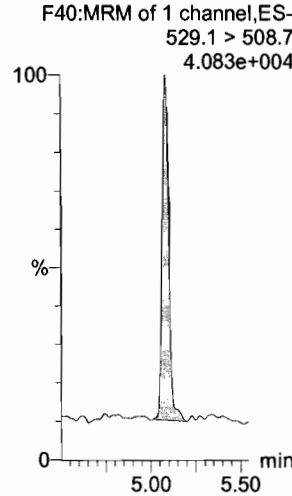
**PFDS**



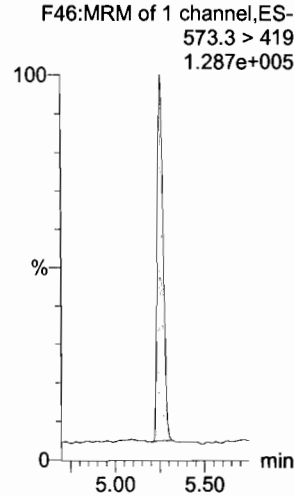
**13C2-PFDA**



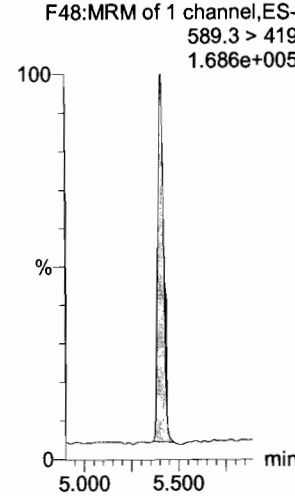
**13C2-8:2 FTS**



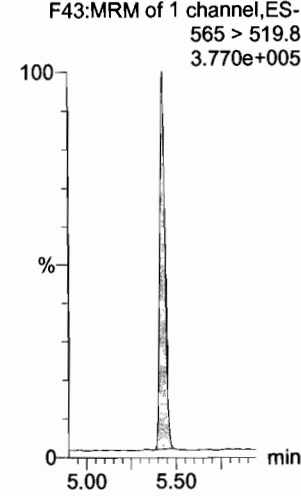
**d3-N-MeFOSAA**



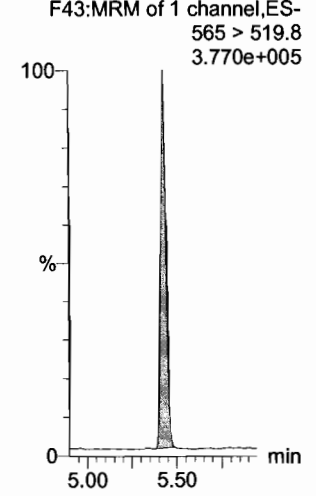
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUDa**

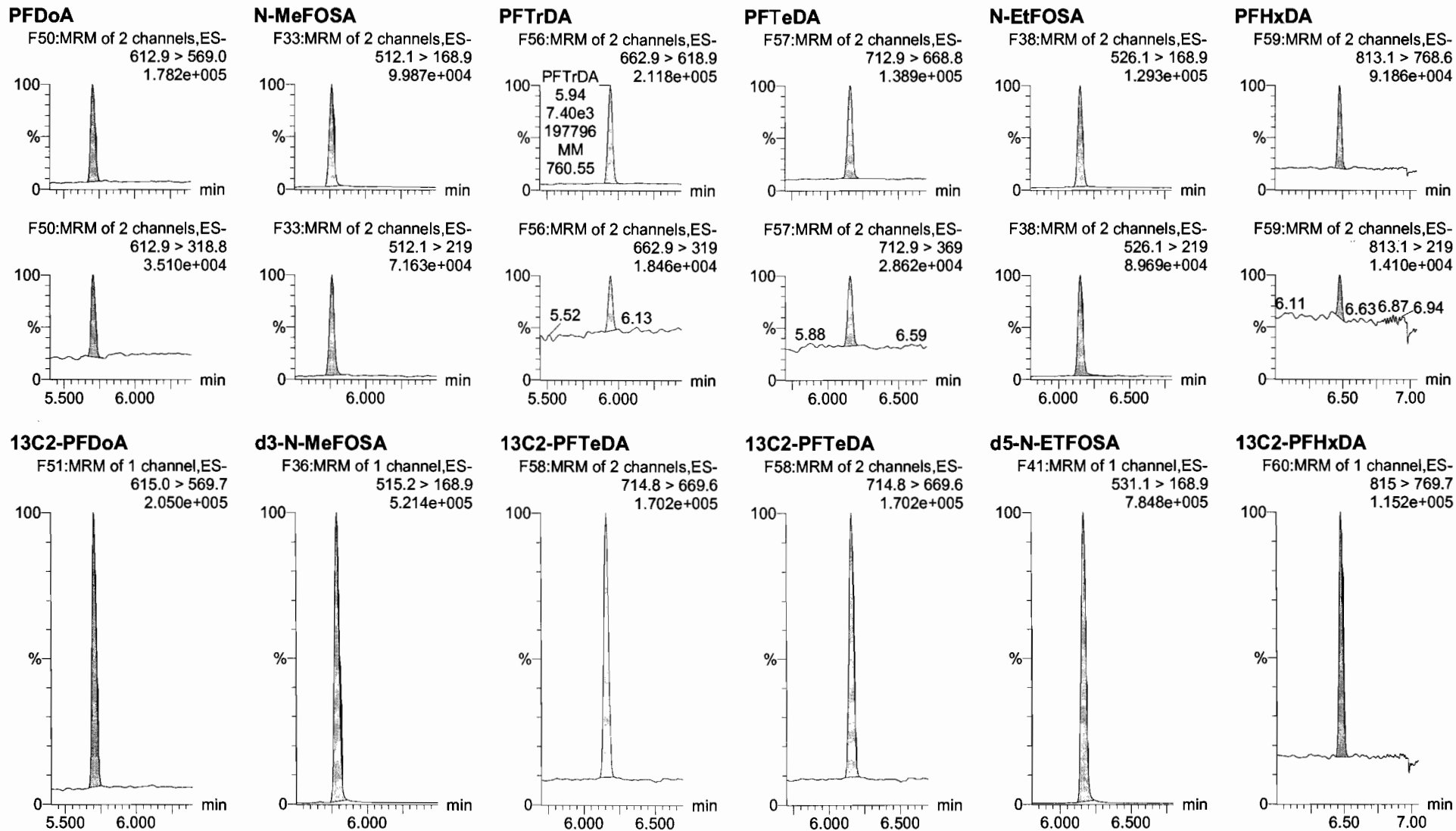


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_6, Date: 24-Dec-2017, Time: 13:21:32, ID: ST171224M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802



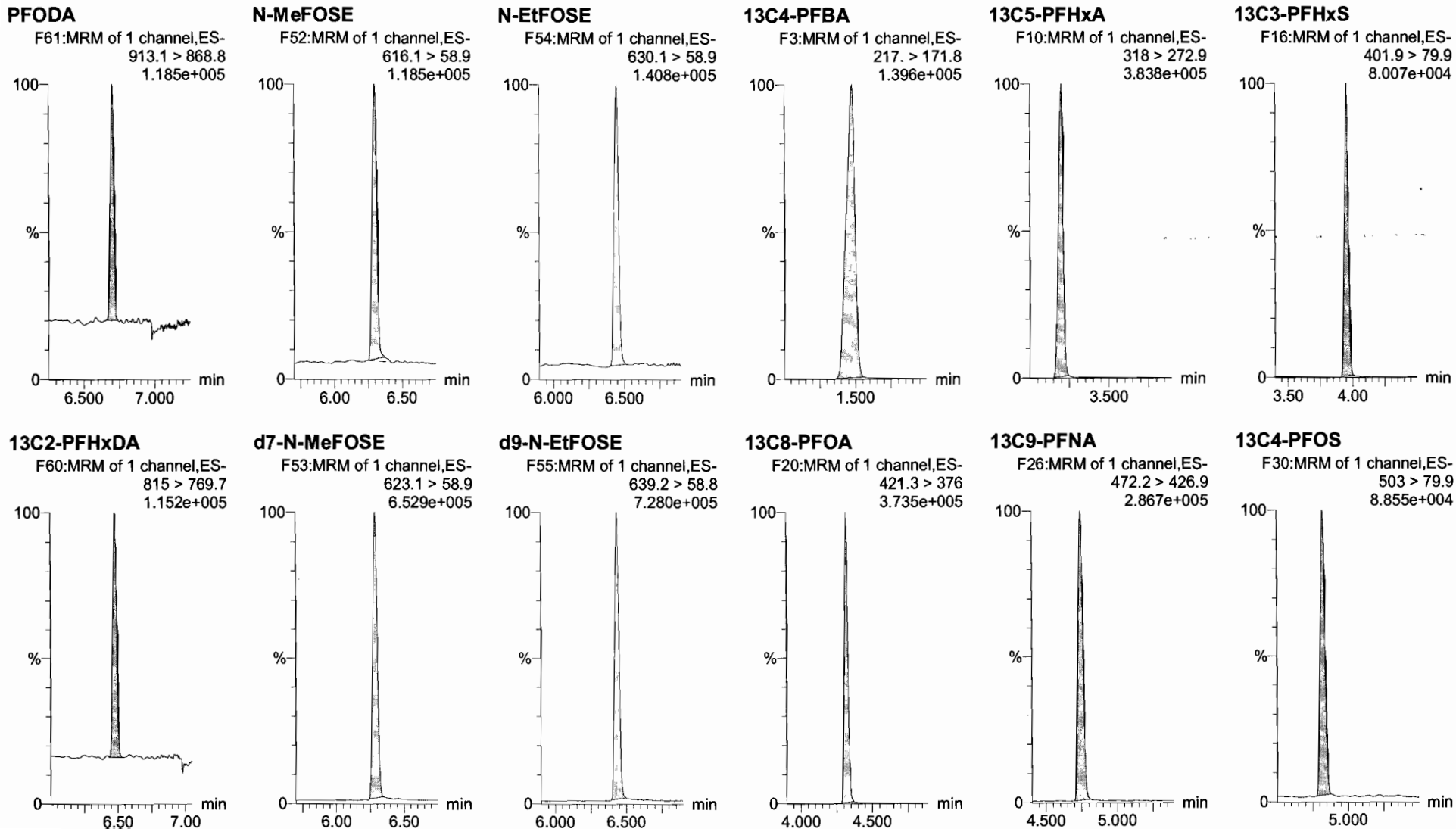


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_6, Date: 24-Dec-2017, Time: 13:21:32, ID: ST171224M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crV.B.qld

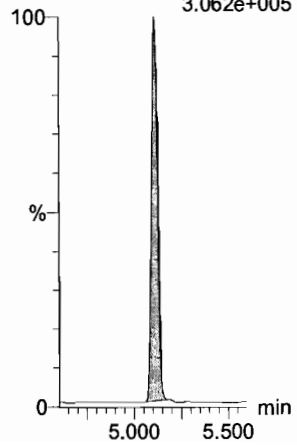
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_6, Date: 24-Dec-2017, Time: 13:21:32, ID: ST171224M1-5 PFC CS2 17L1802, Description: PFC CS2 17L1802

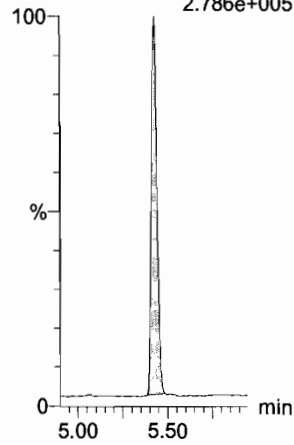
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
3.062e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.786e+005

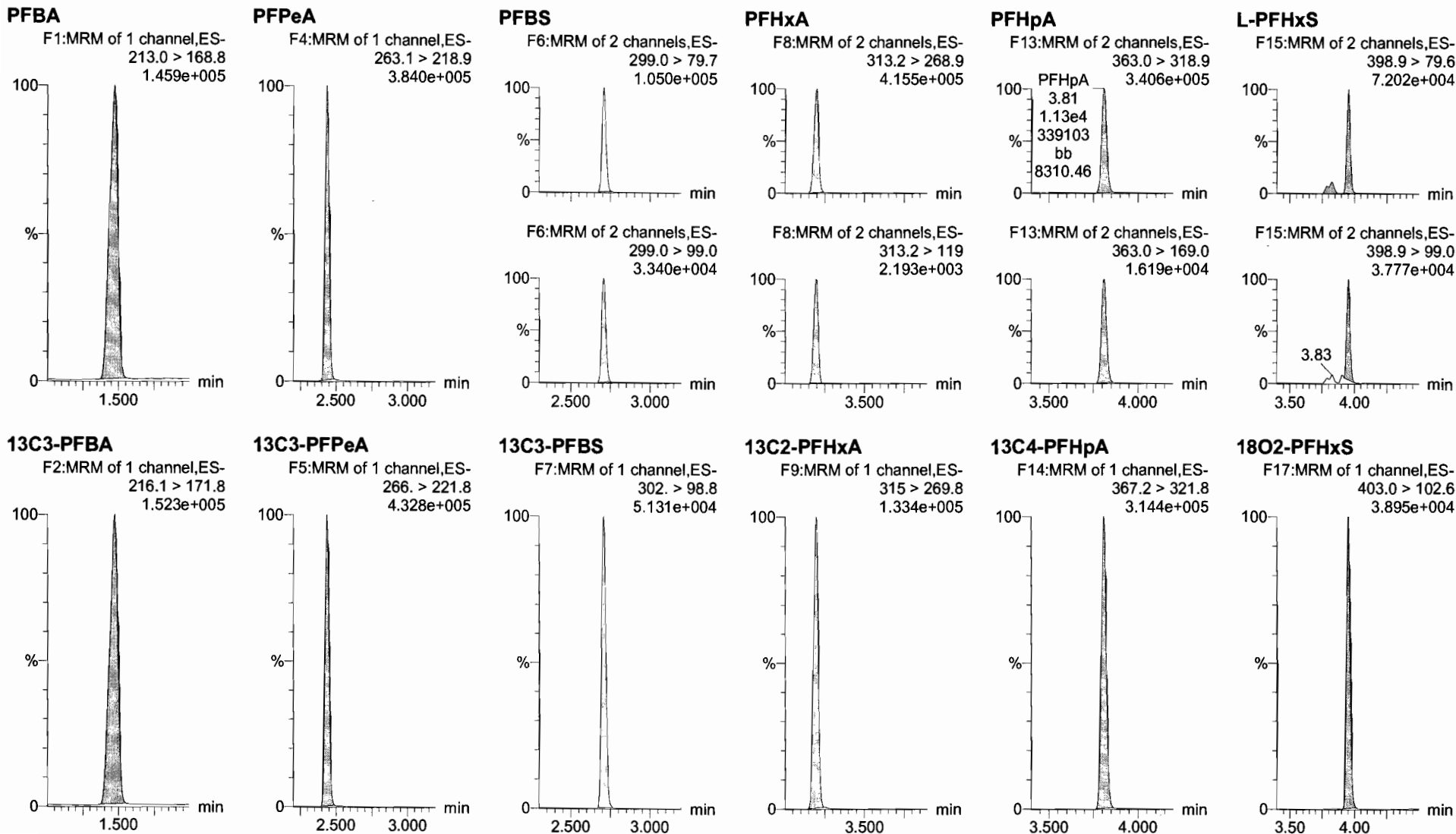


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_7, Date: 24-Dec-2017, Time: 13:32:42, ID: ST171224M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

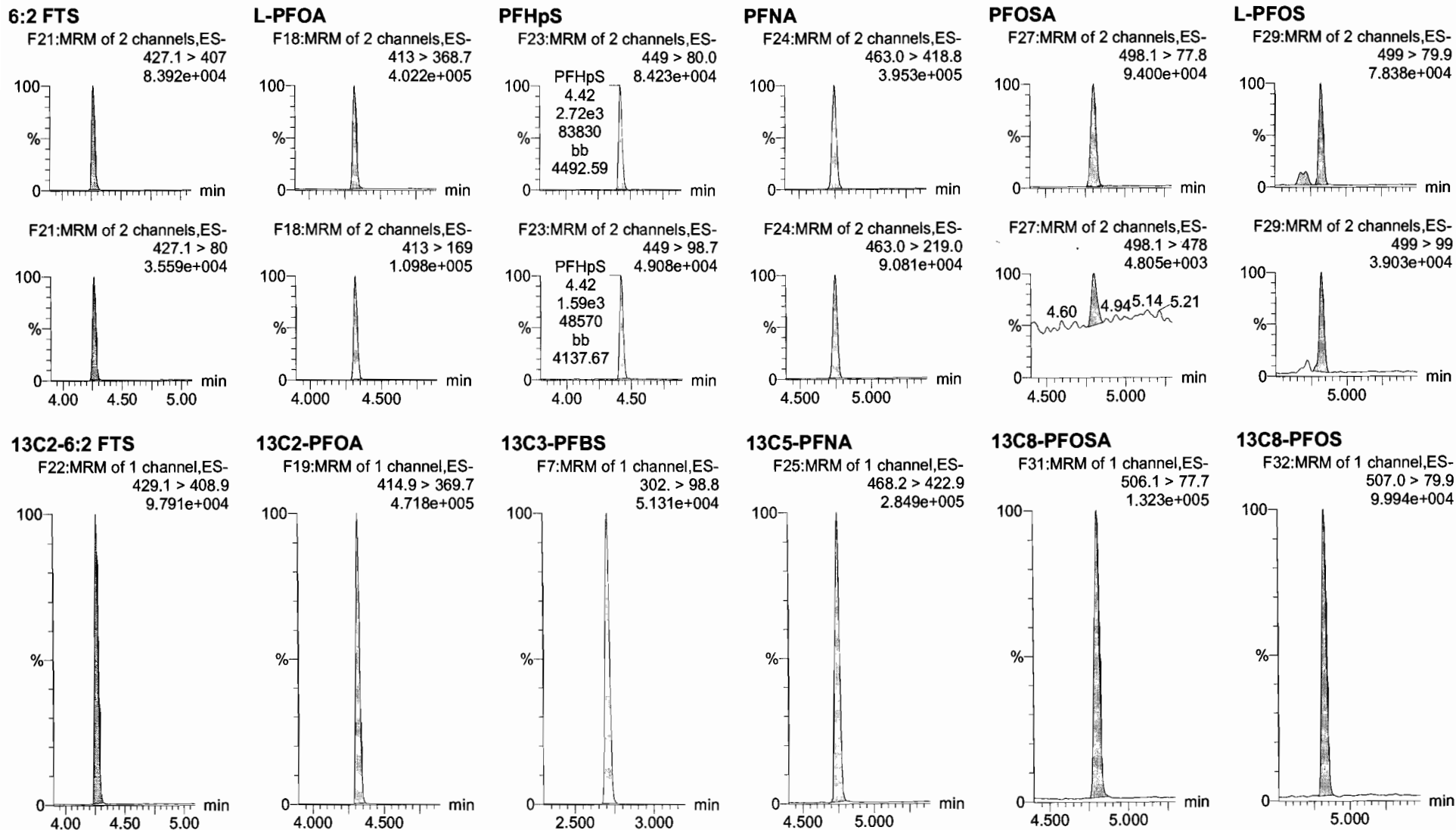


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

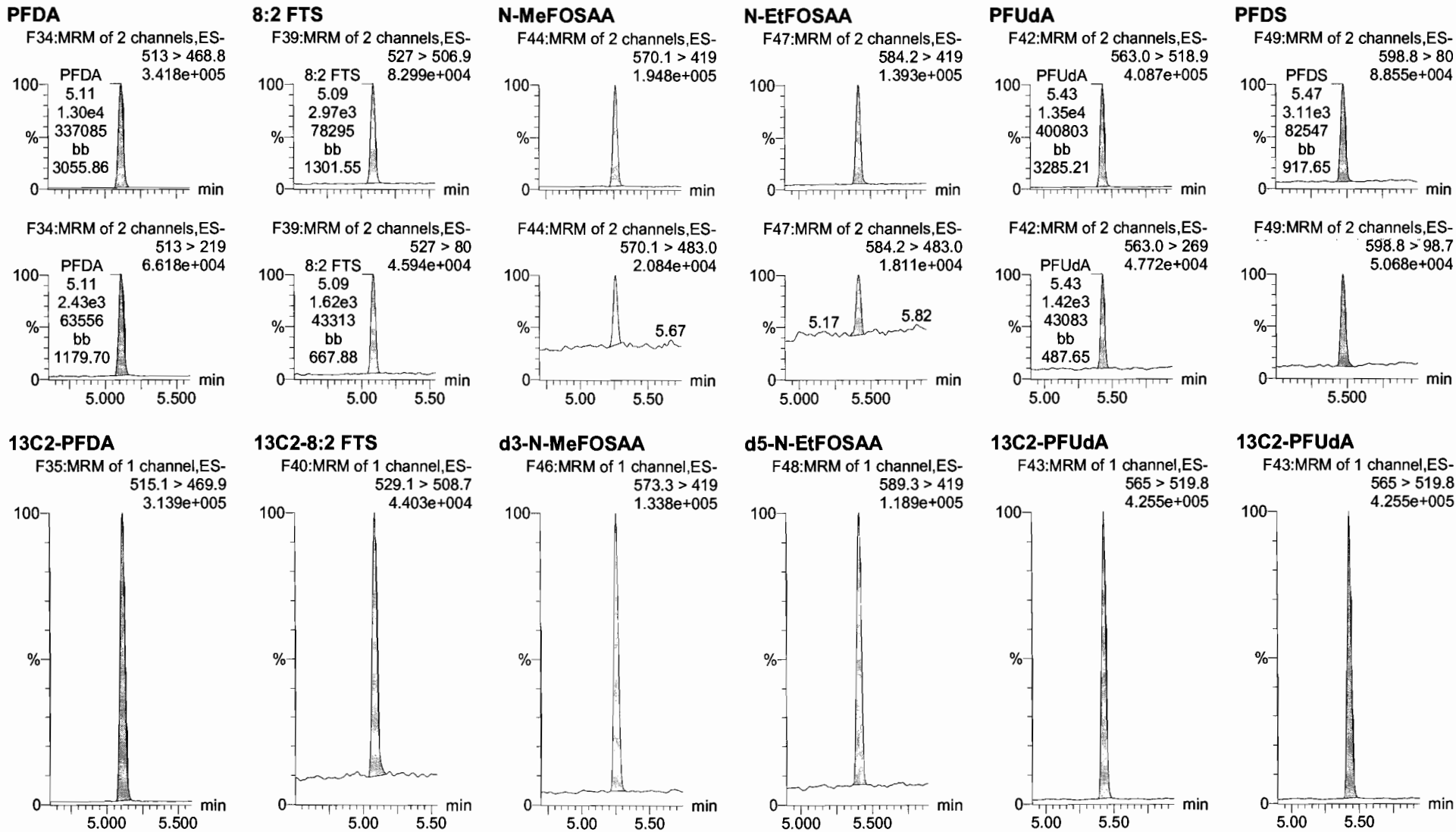
Name: 171224M1\_7, Date: 24-Dec-2017, Time: 13:32:42, ID: ST171224M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_7, Date: 24-Dec-2017, Time: 13:32:42, ID: ST171224M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

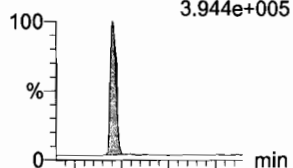
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

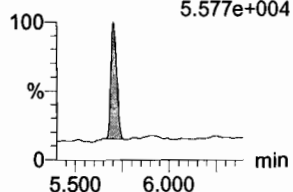
Name: 171224M1\_7, Date: 24-Dec-2017, Time: 13:32:42, ID: ST171224M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

**PFDoA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
3.944e+005

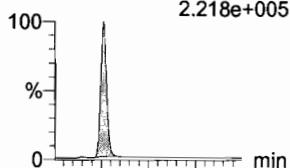


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
5.577e+004

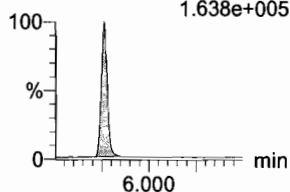


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
2.218e+005

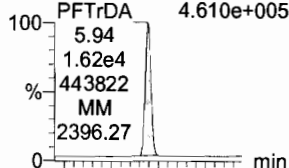


F33:MRM of 2 channels,ES-  
512.1 > 219  
1.638e+005

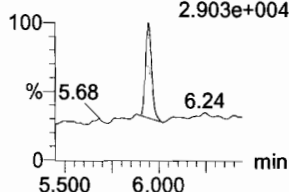


**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
4.610e+005

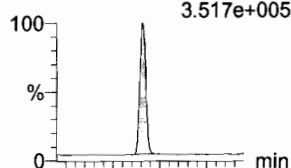


F56:MRM of 2 channels,ES-  
662.9 > 319  
2.903e+004

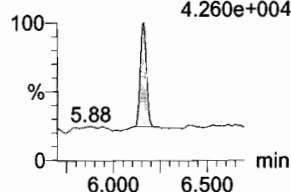


**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
3.517e+005

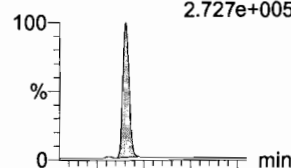


F57:MRM of 2 channels,ES-  
712.9 > 369  
4.260e+004

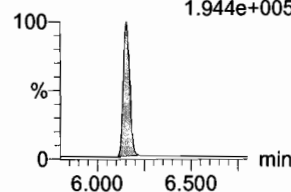


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
2.727e+005

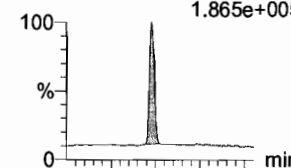


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.944e+005

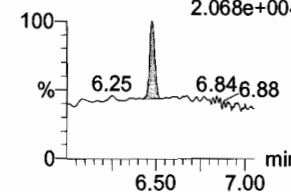


**PFHxDA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
1.865e+005

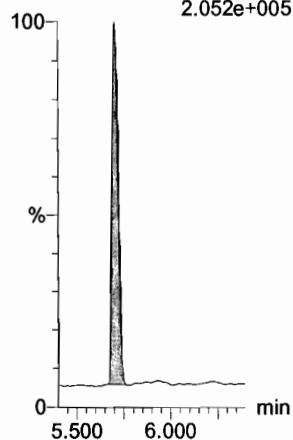


F59:MRM of 2 channels,ES-  
813.1 > 219  
2.068e+004



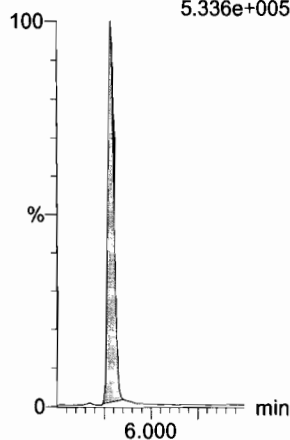
**13C2-PFDoA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.052e+005



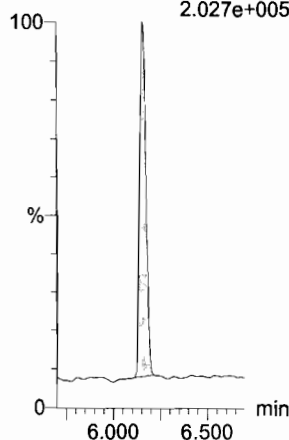
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
5.336e+005



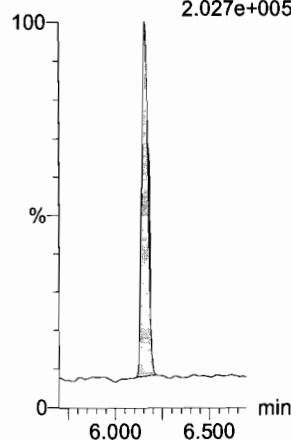
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.027e+005



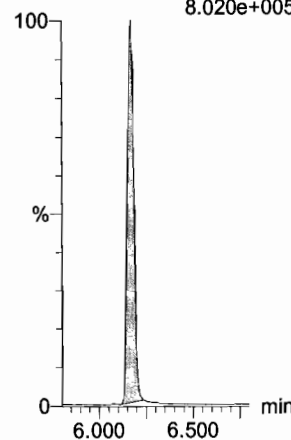
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
2.027e+005



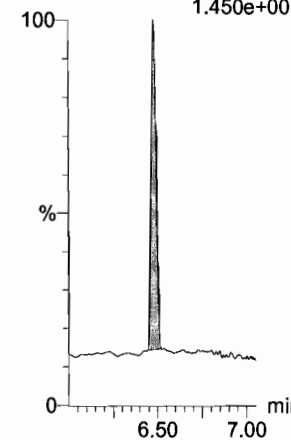
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
8.020e+005



**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
1.450e+005

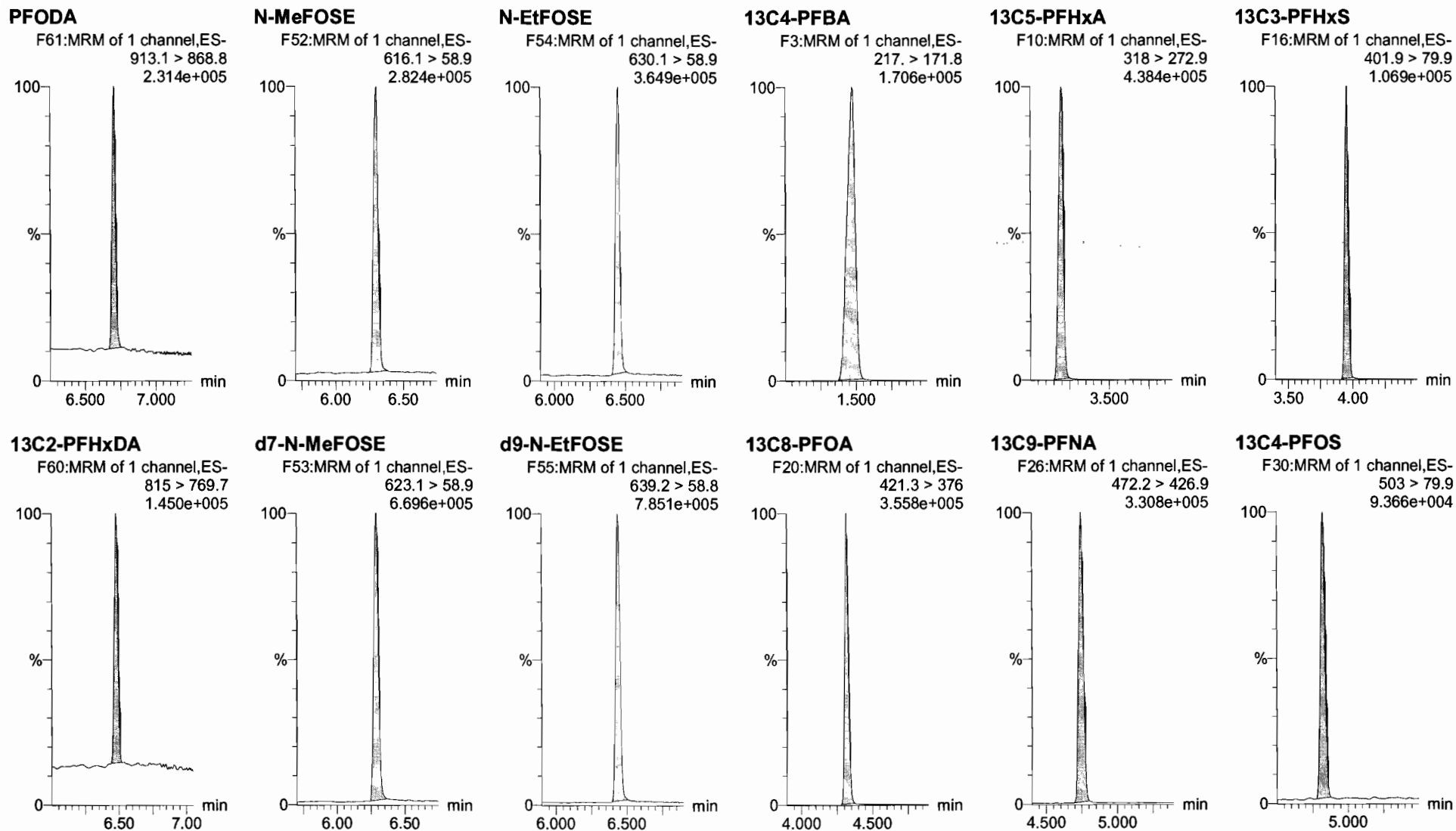


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

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Name: 171224M1\_7, Date: 24-Dec-2017, Time: 13:32:42, ID: ST171224M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

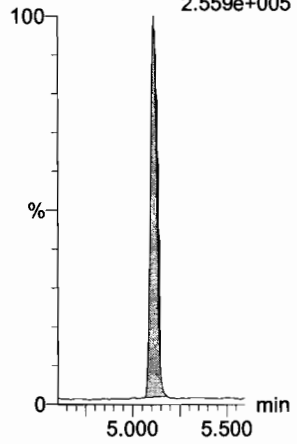
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_7, Date: 24-Dec-2017, Time: 13:32:42, ID: ST171224M1-6 PFC CS3 17L1207, Description: PFC CS3 17L1207

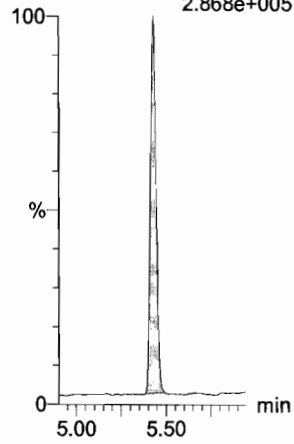
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.559e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.868e+005



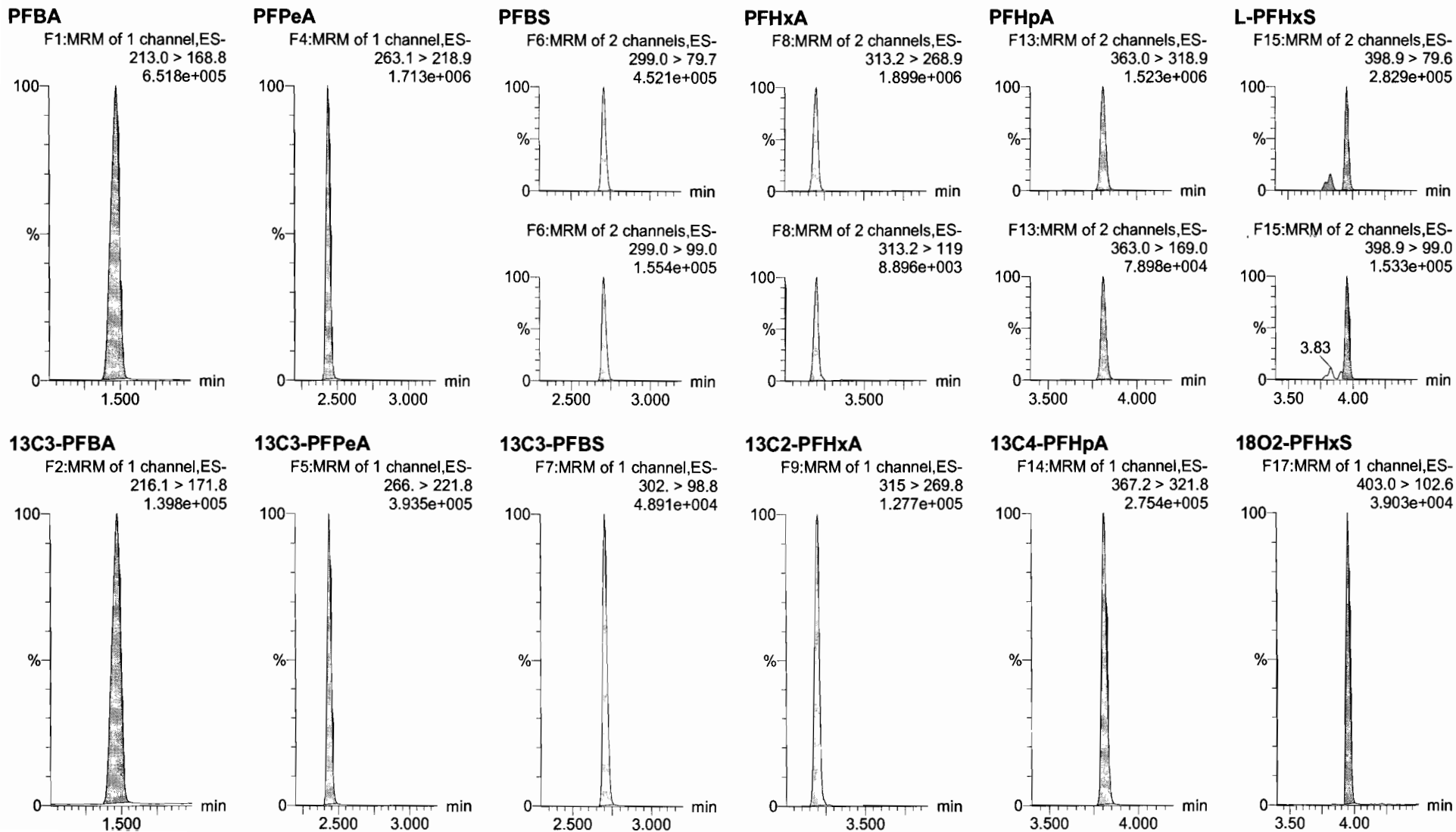


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_8, Date: 24-Dec-2017, Time: 13:43:53, ID: ST171224M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

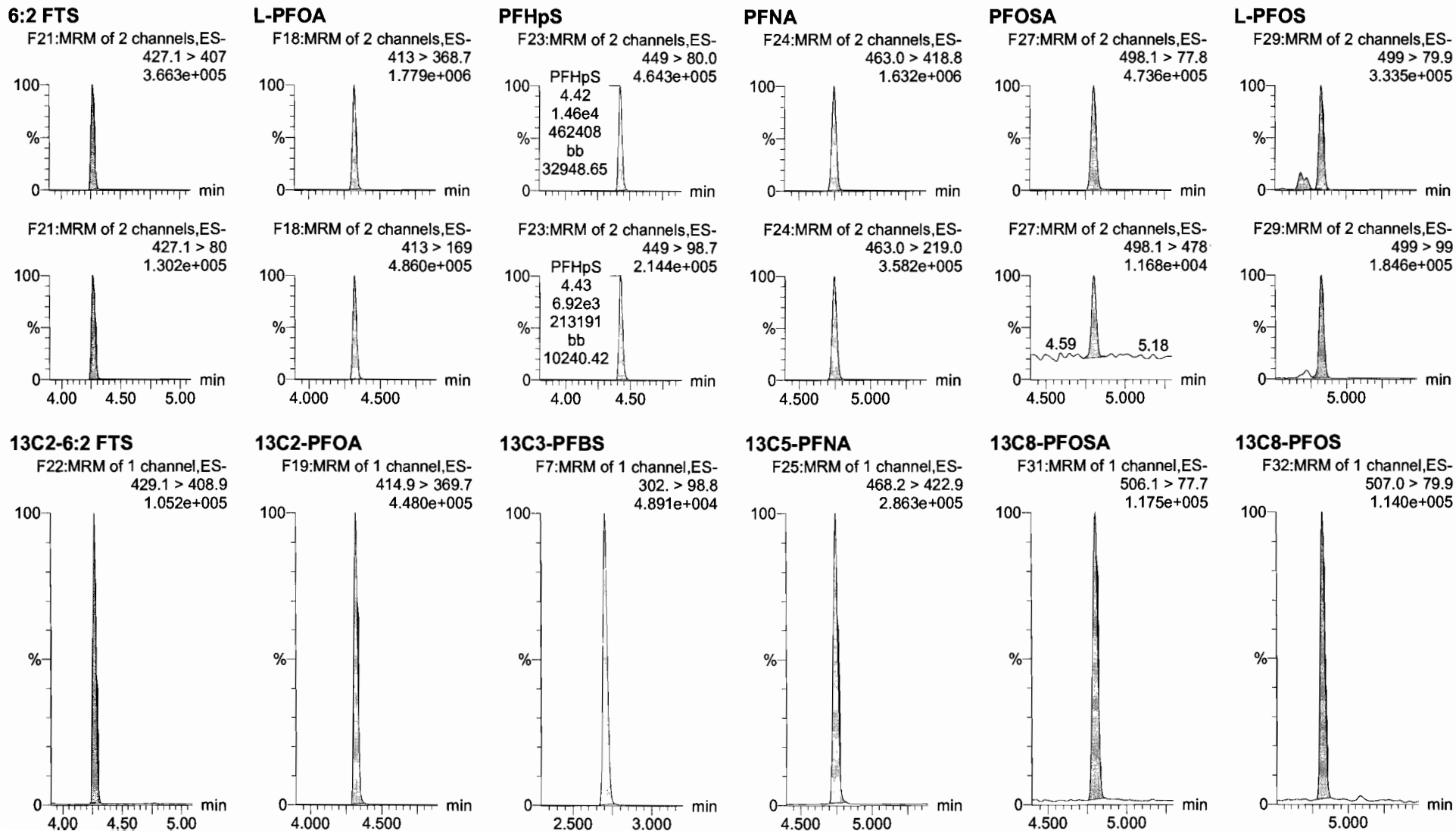


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_8, Date: 24-Dec-2017, Time: 13:43:53, ID: ST171224M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

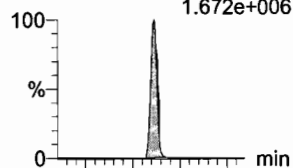
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

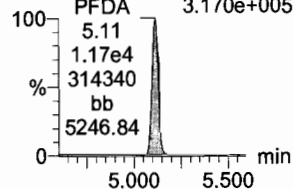
Name: 171224M1\_8, Date: 24-Dec-2017, Time: 13:43:53, ID: ST171224M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.672e+006

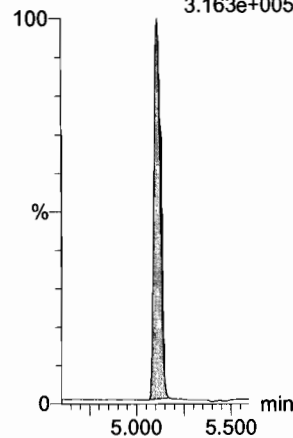


F34:MRM of 2 channels,ES-  
513 > 219  
3.170e+005



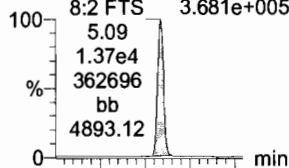
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
3.163e+005

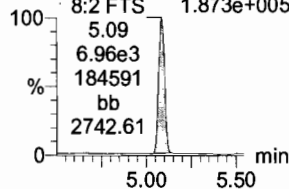


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
3.681e+005

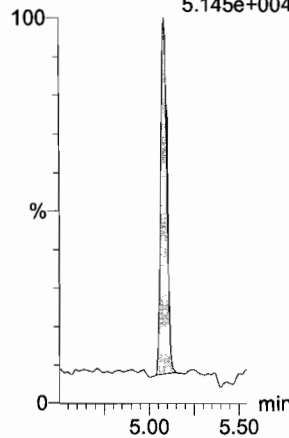


F39:MRM of 2 channels,ES-  
527 > 80  
1.873e+005



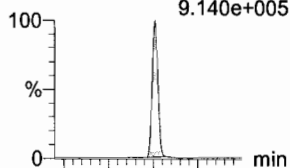
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
5.145e+004

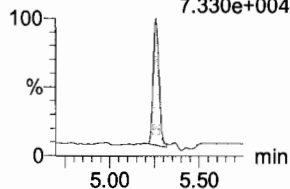


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
9.140e+005

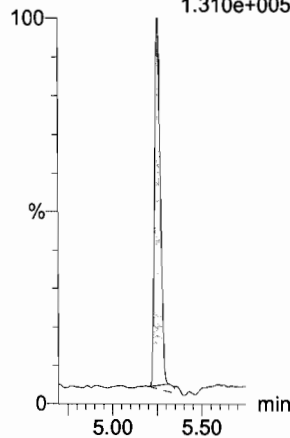


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
7.330e+004



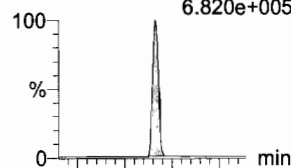
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.310e+005

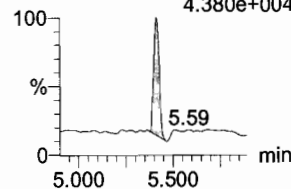


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
6.820e+005

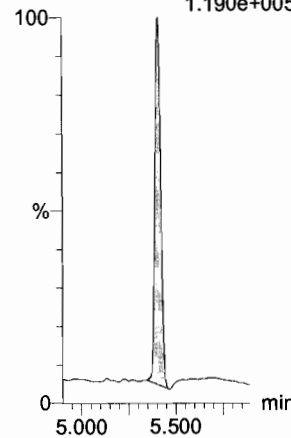


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
4.380e+004



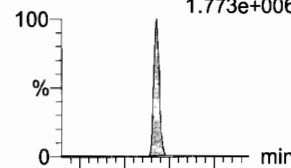
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.190e+005

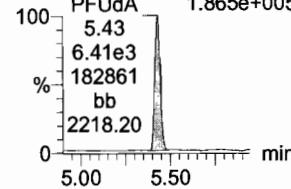


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
1.773e+006

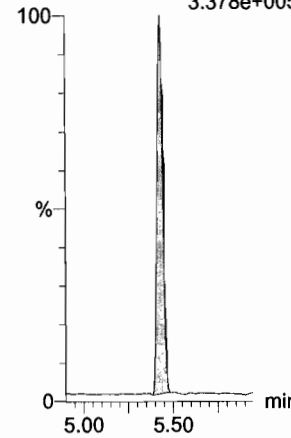


F42:MRM of 2 channels,ES-  
563.0 > 269  
1.865e+005



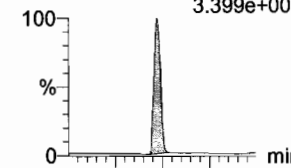
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.378e+005

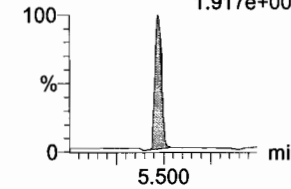


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
3.399e+005

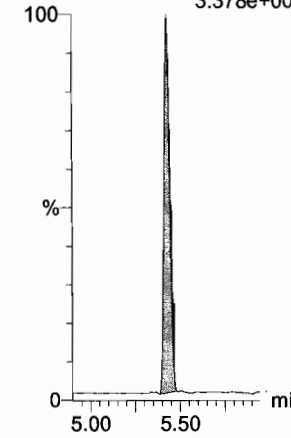


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
1.917e+005



**13C2-PFUdA**

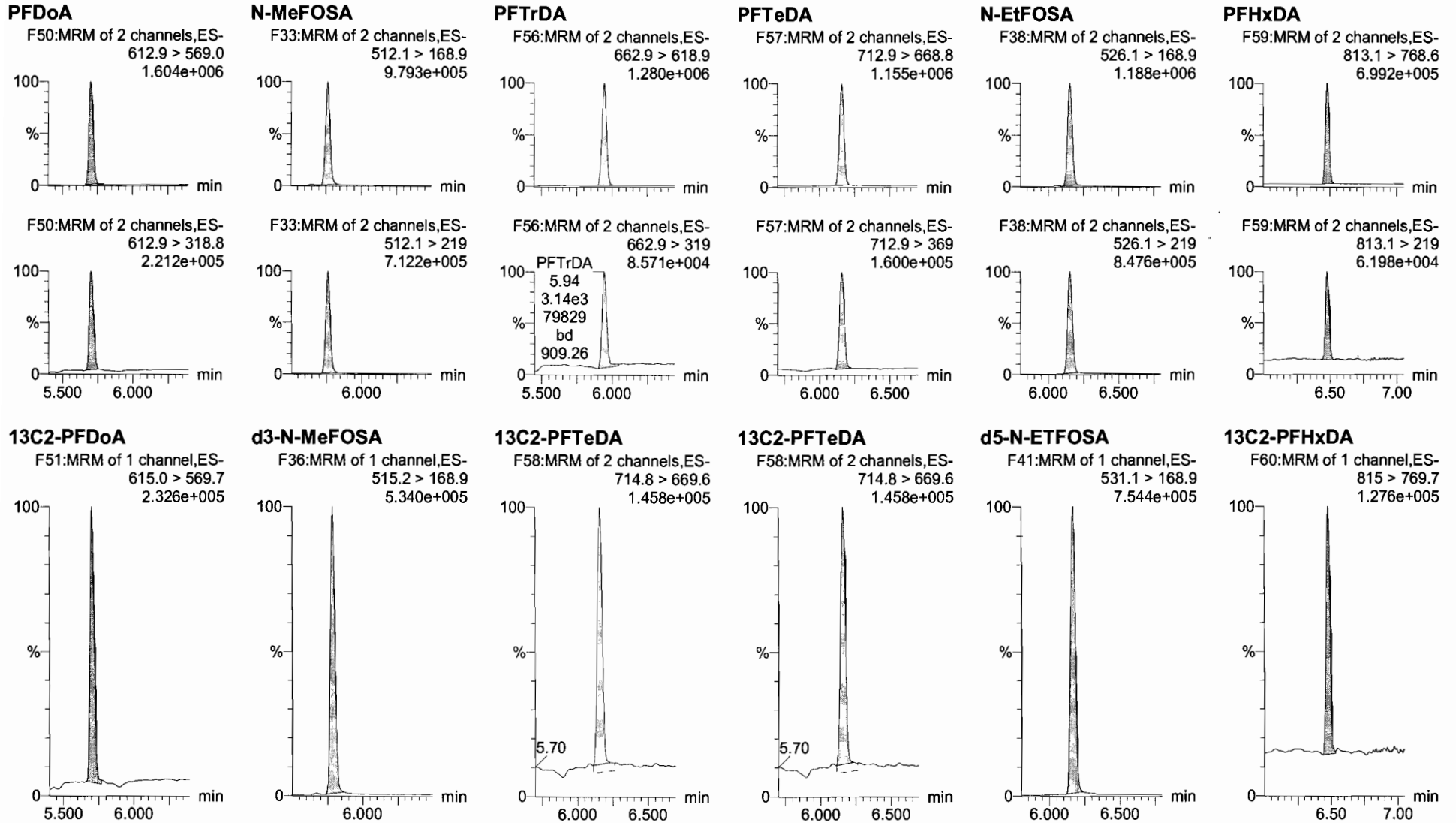
F43:MRM of 1 channel,ES-  
565 > 519.8  
3.378e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_8, Date: 24-Dec-2017, Time: 13:43:53, ID: ST171224M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

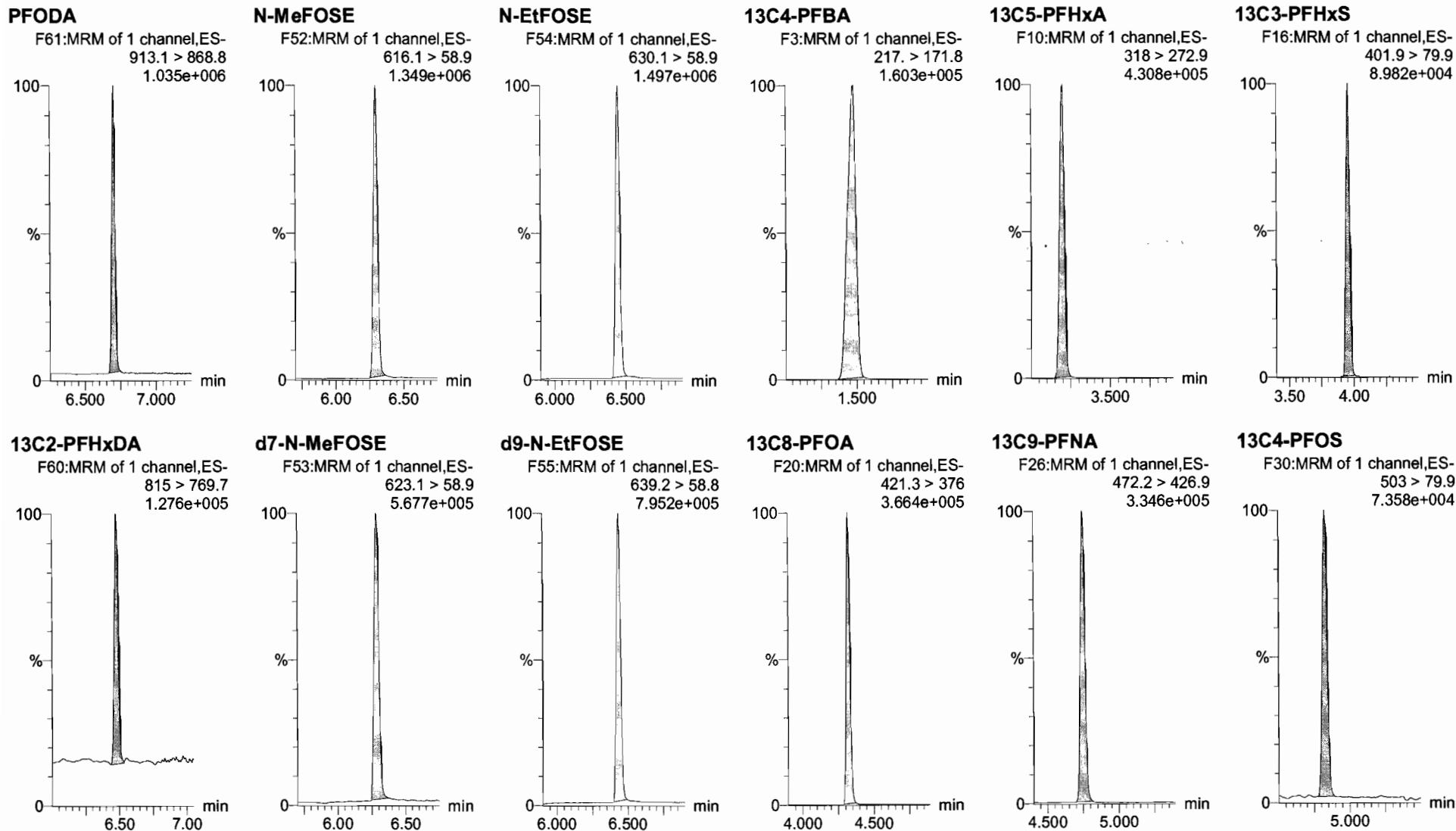


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_8, Date: 24-Dec-2017, Time: 13:43:53, ID: ST171224M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

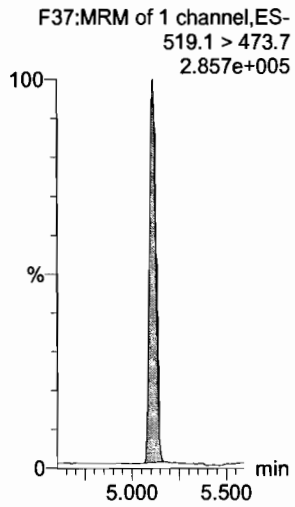


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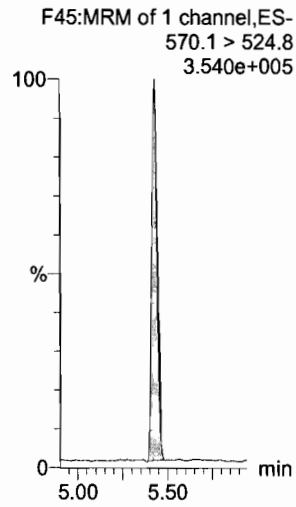
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_8, Date: 24-Dec-2017, Time: 13:43:53, ID: ST171224M1-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

13C6-PFDA



13C7-PFUdA

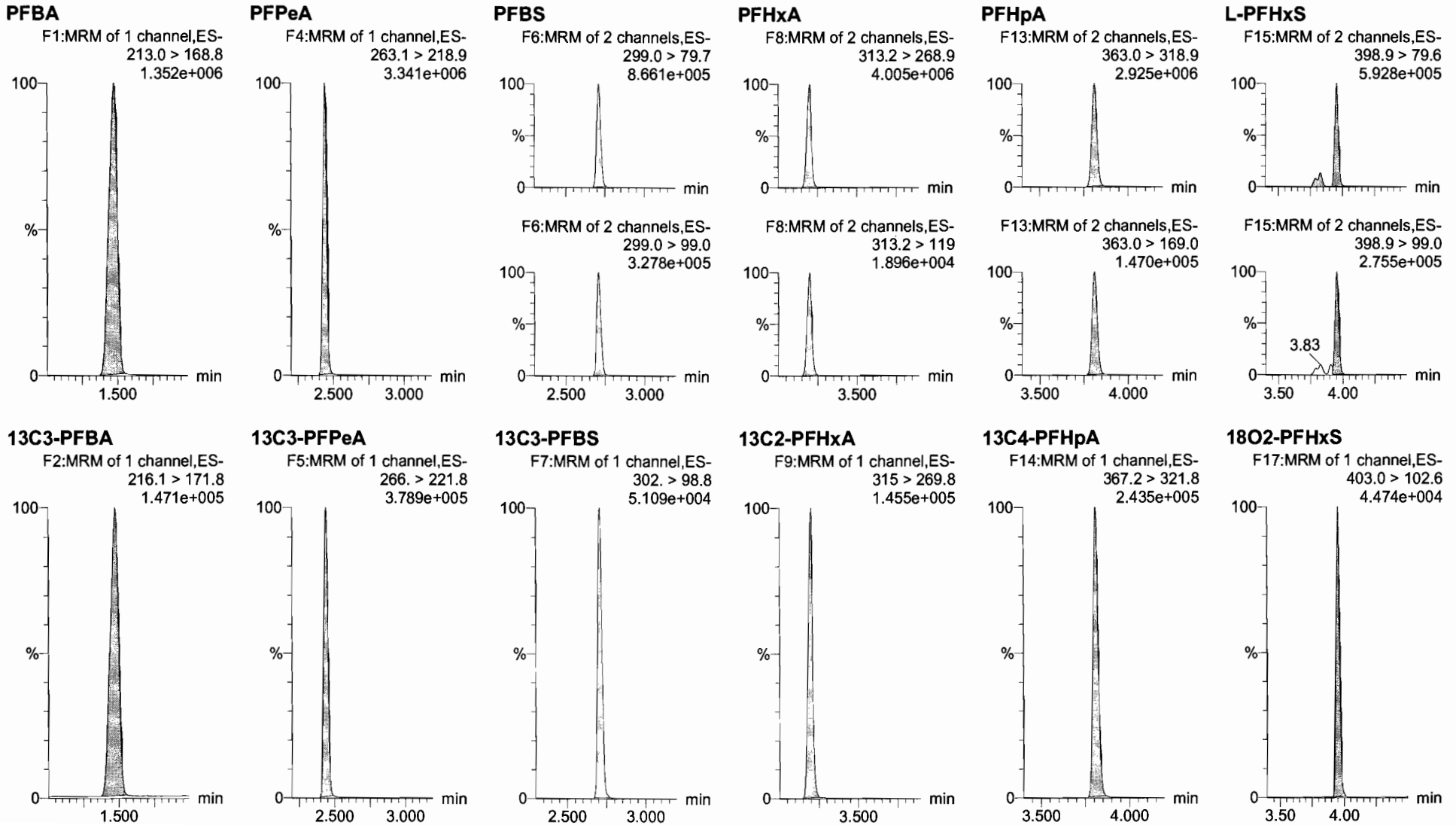


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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_9, Date: 24-Dec-2017, Time: 13:55:03, ID: ST171224M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

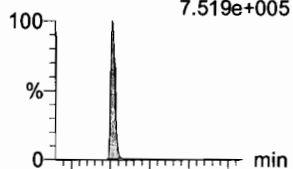
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

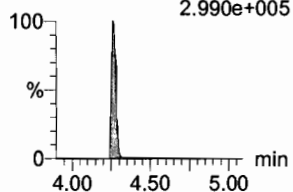
Name: 171224M1\_9, Date: 24-Dec-2017, Time: 13:55:03, ID: ST171224M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
7.519e+005

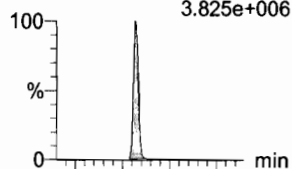


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.990e+005

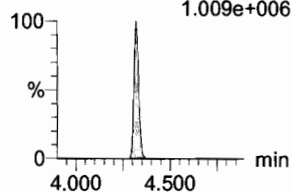


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
3.825e+006

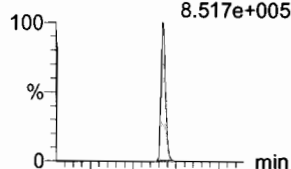


F18:MRM of 2 channels,ES-  
413 > 169  
1.009e+006

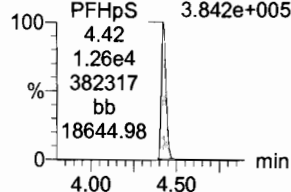


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
8.517e+005

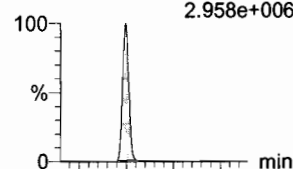


F23:MRM of 2 channels,ES-  
449 > 98.7  
3.842e+005

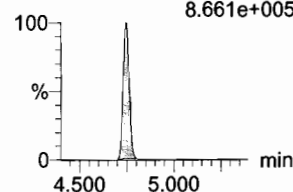


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
2.958e+006

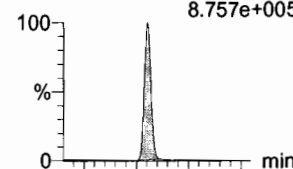


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
8.661e+005

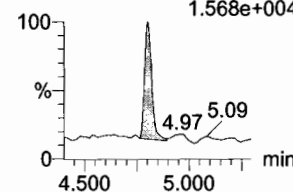


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
8.757e+005

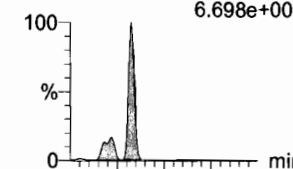


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.568e+004

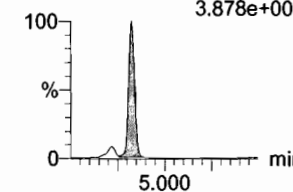


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
6.698e+005

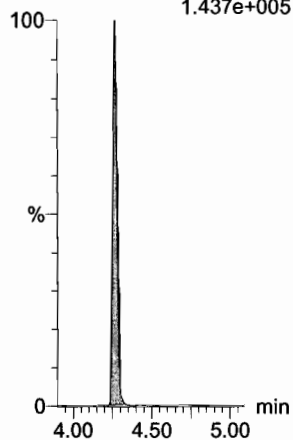


F29:MRM of 2 channels,ES-  
499 > 99  
3.878e+005



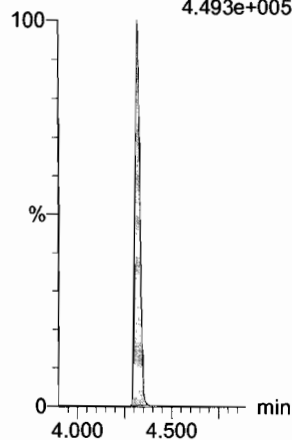
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.437e+005



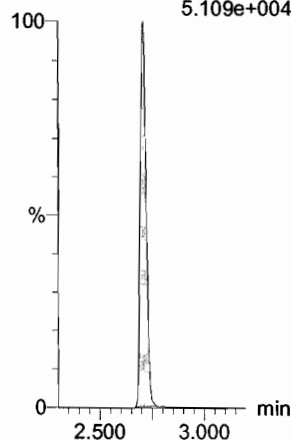
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.493e+005



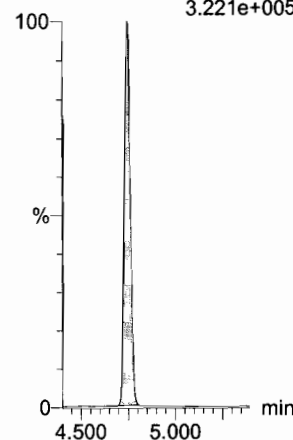
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
5.109e+004



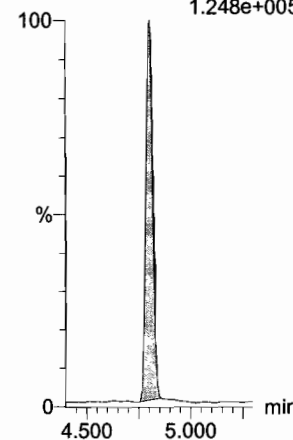
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
3.221e+005



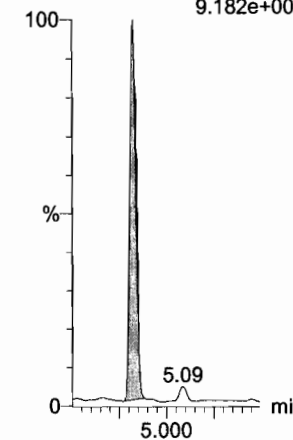
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
1.248e+005



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
9.182e+004



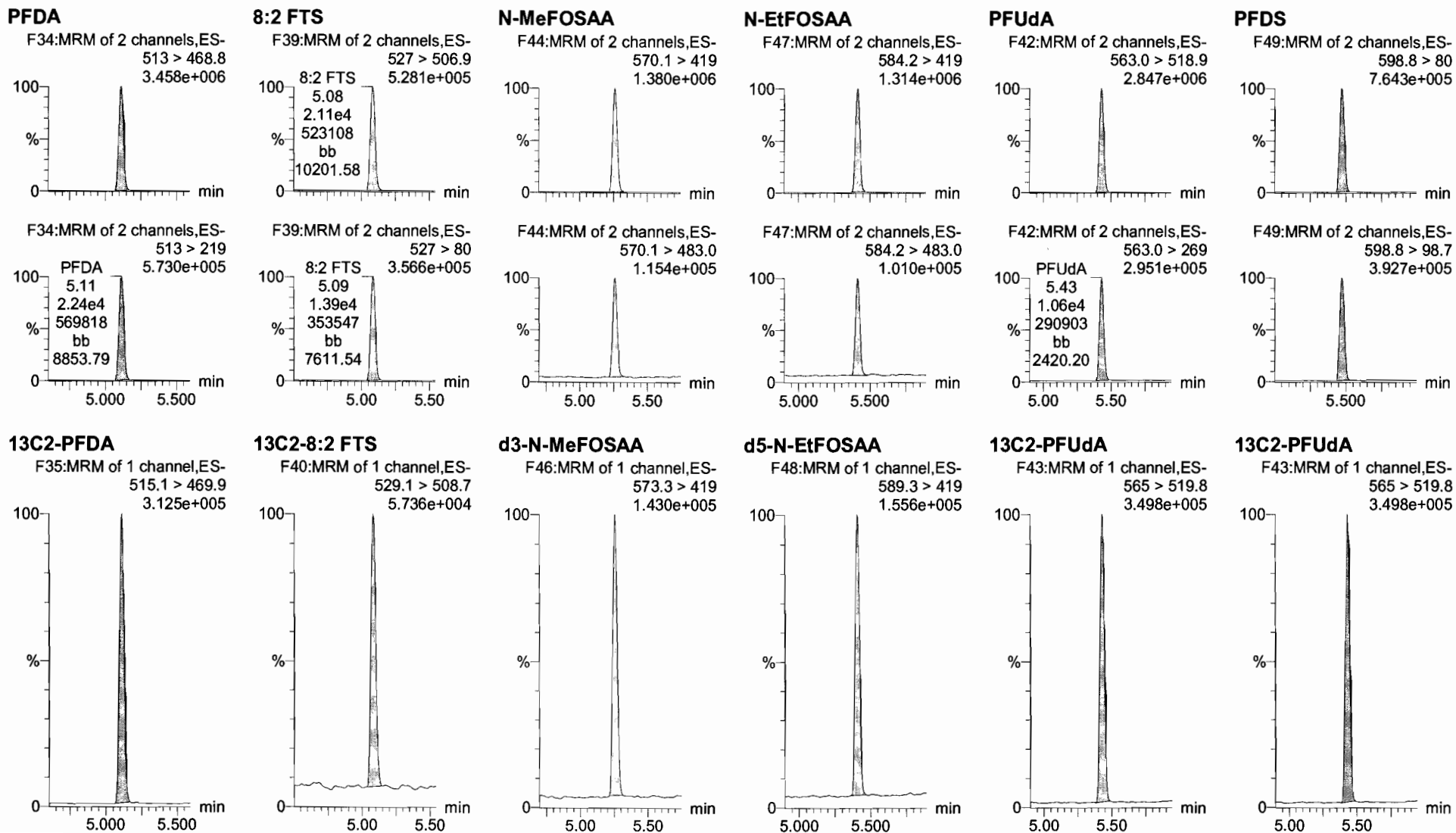


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

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Name: 171224M1\_9, Date: 24-Dec-2017, Time: 13:55:03, ID: ST171224M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

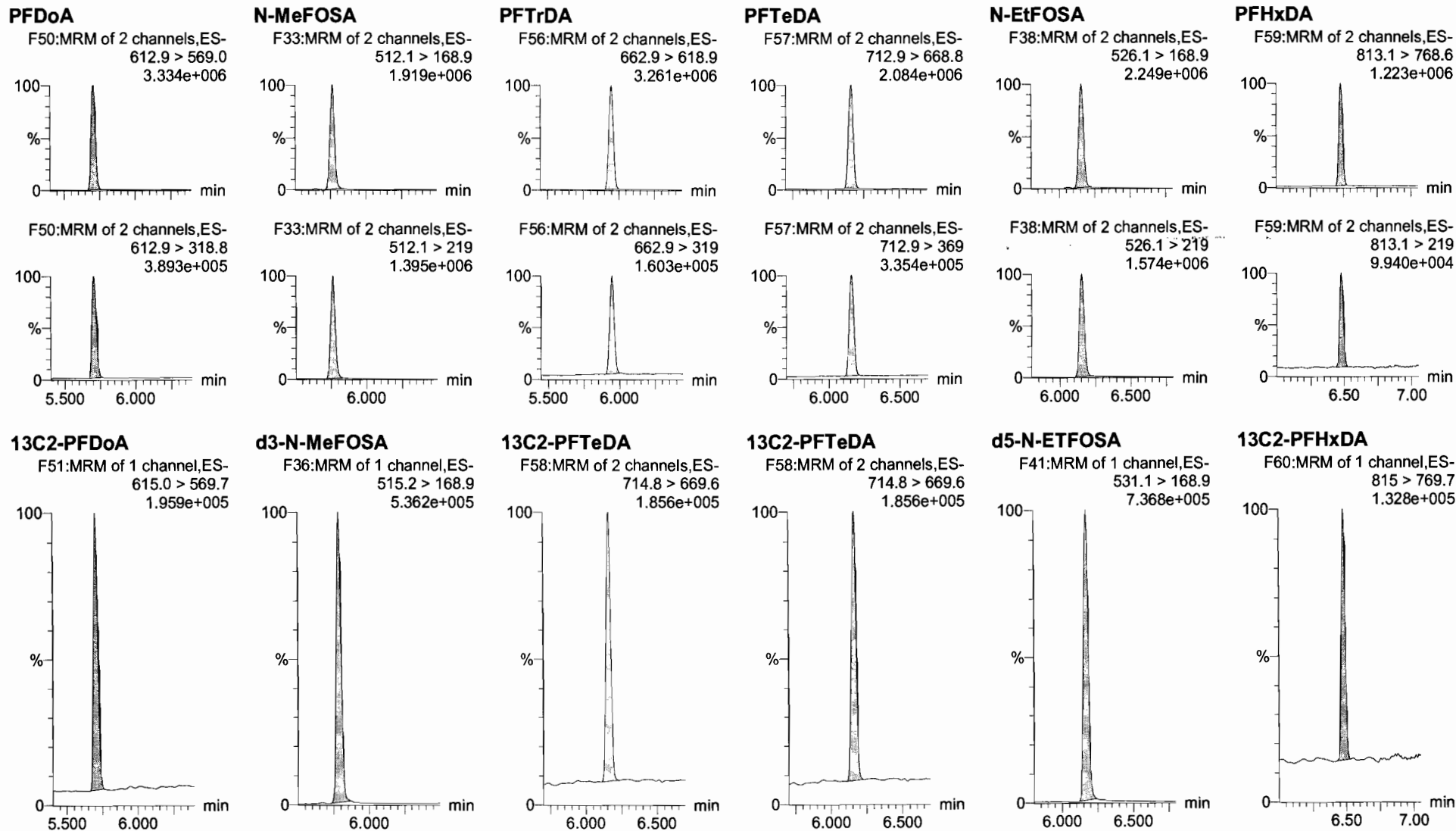


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

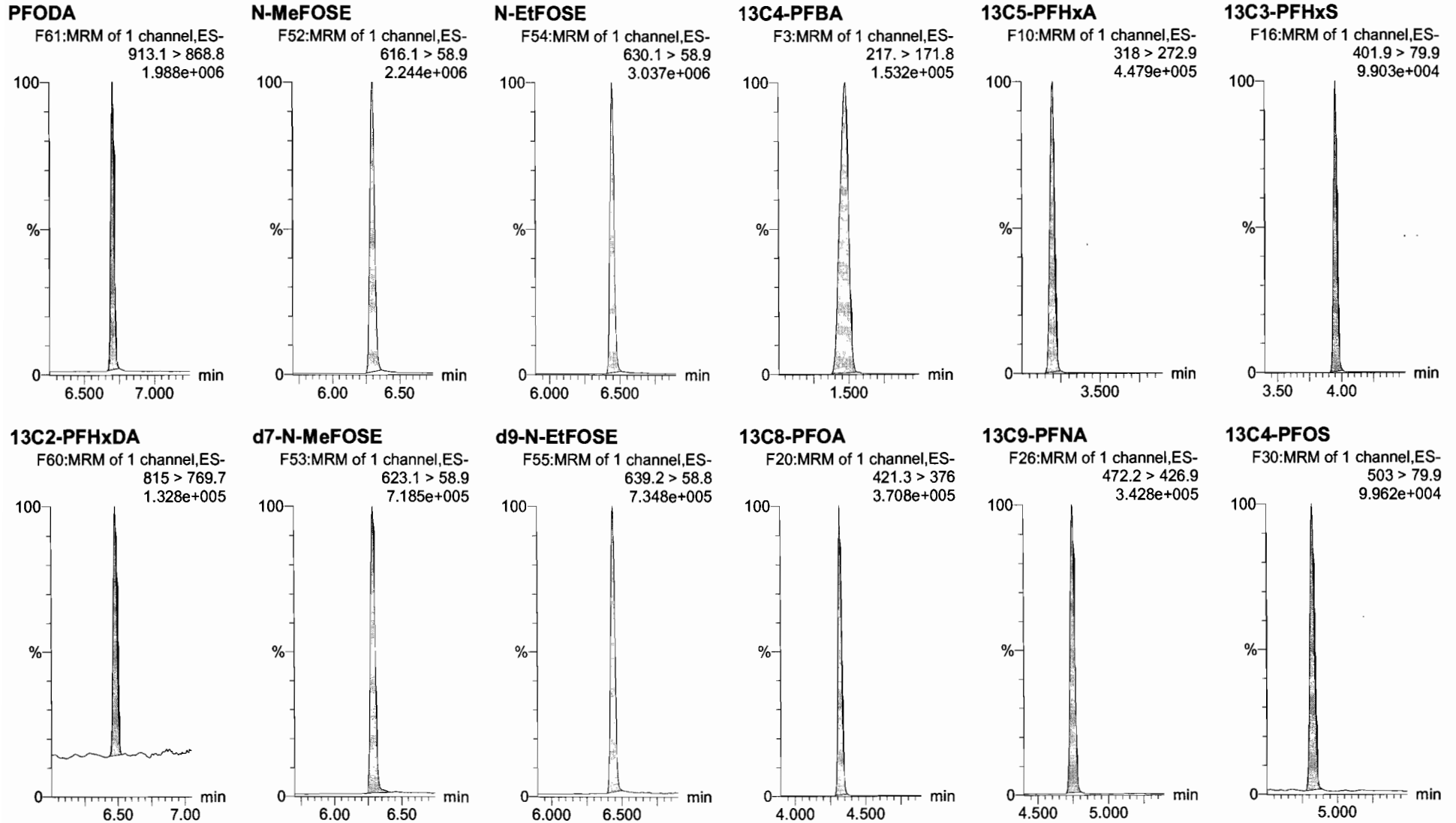
Name: 171224M1\_9, Date: 24-Dec-2017, Time: 13:55:03, ID: ST171224M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
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Name: 171224M1\_9, Date: 24-Dec-2017, Time: 13:55:03, ID: ST171224M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

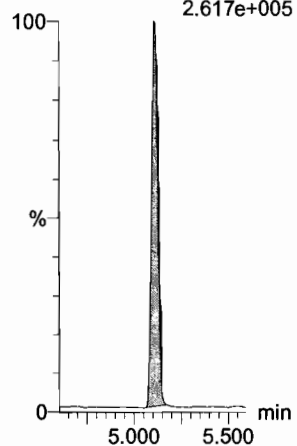
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_9, Date: 24-Dec-2017, Time: 13:55:03, ID: ST171224M1-8 PFC CS5 17L1209, Description: PFC CS5 17L1209

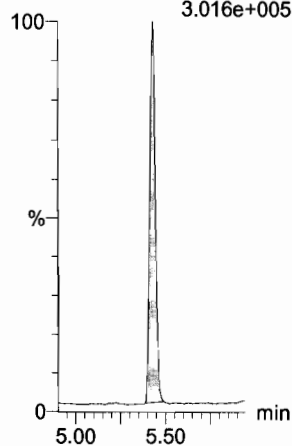
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.617e+005



13C7-PFUdA

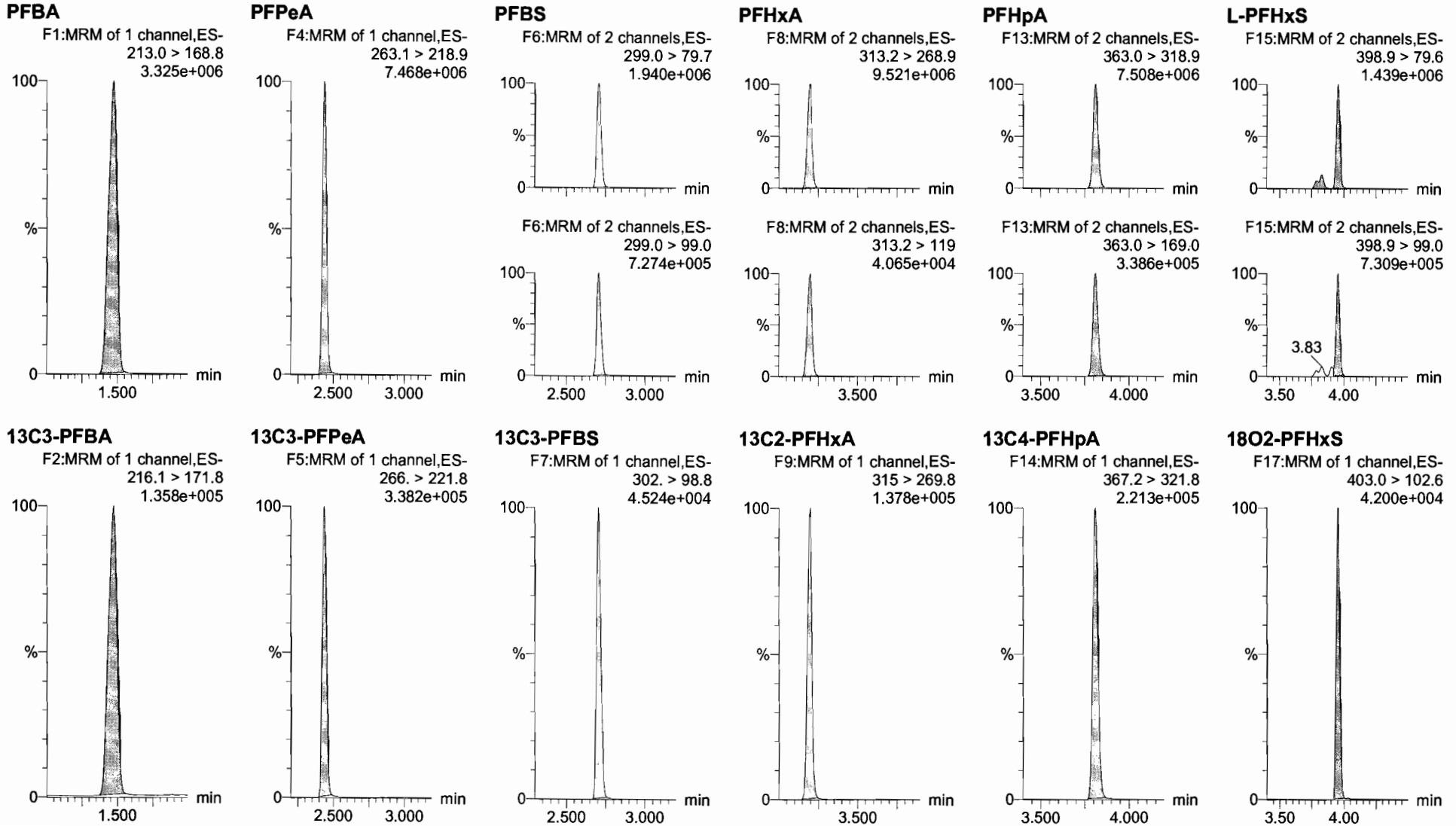
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.016e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

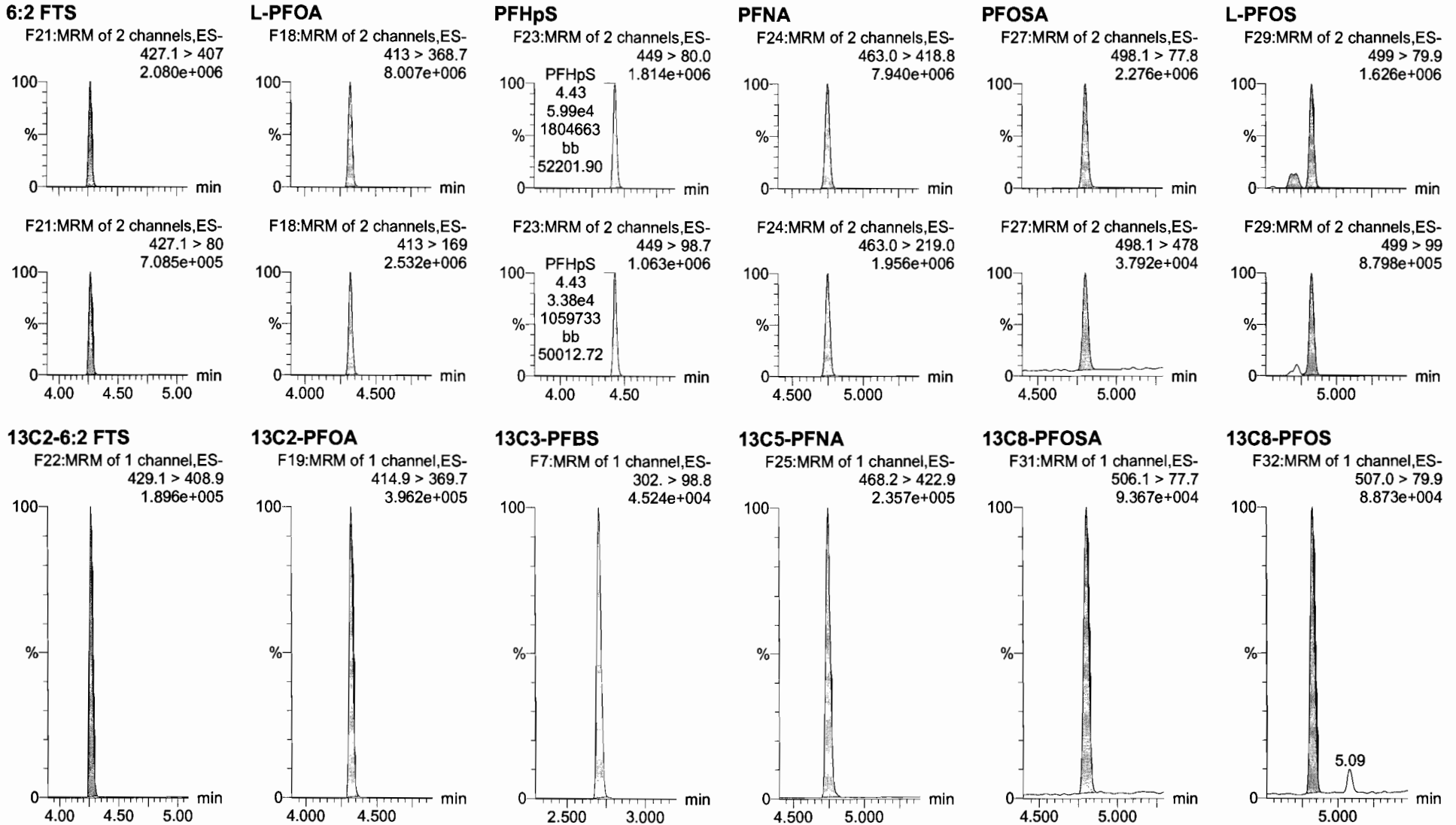
Name: 171224M1\_10, Date: 24-Dec-2017, Time: 14:06:14, ID: ST171224M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_10, Date: 24-Dec-2017, Time: 14:06:14, ID: ST171224M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

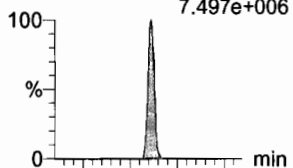
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

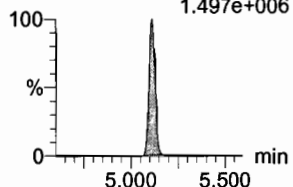
Name: 171224M1\_10, Date: 24-Dec-2017, Time: 14:06:14, ID: ST171224M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
7.497e+006

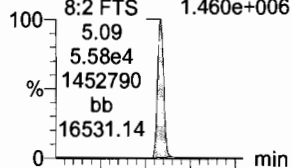


F34:MRM of 2 channels,ES-  
513 > 219  
1.497e+006

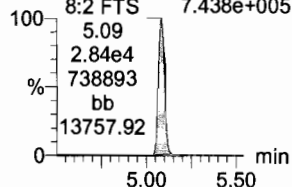


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
1.460e+006

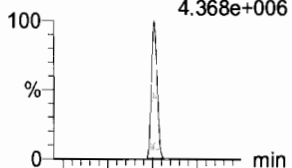


F39:MRM of 2 channels,ES-  
527 > 80  
7.438e+005

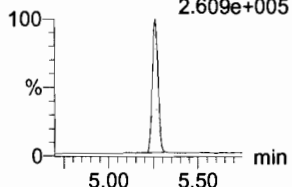


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
4.368e+006

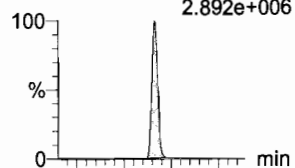


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
2.609e+005

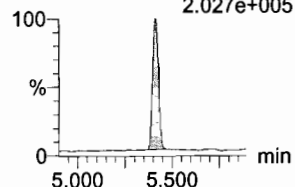


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
2.892e+006

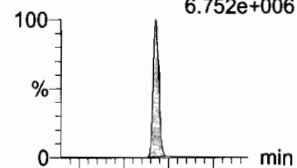


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
2.027e+005

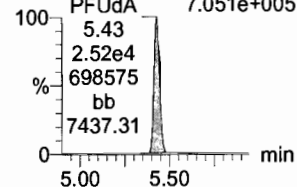


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
6.752e+006

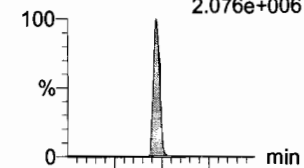


F42:MRM of 2 channels,ES-  
563.0 > 269  
7.051e+005

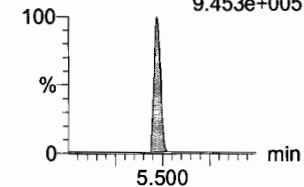


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
2.076e+006

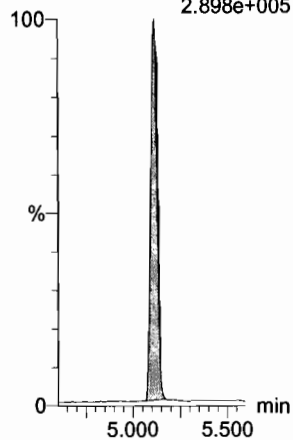


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
9.453e+005



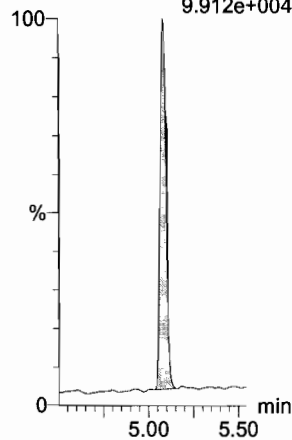
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.898e+005



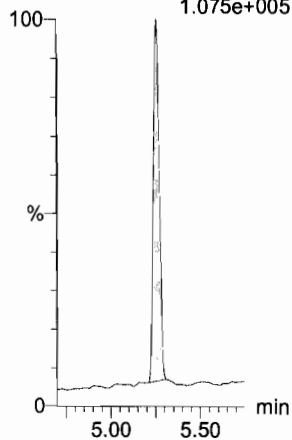
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
9.912e+004



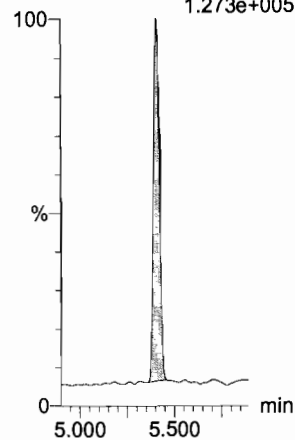
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.075e+005



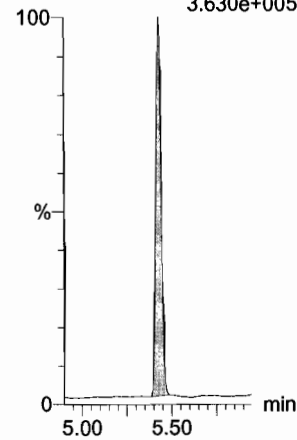
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.273e+005



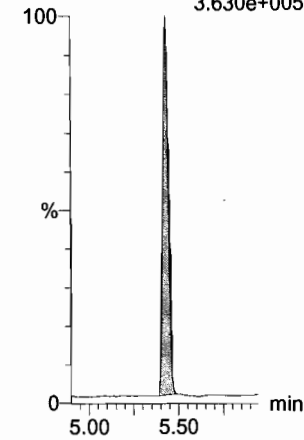
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.630e+005



**13C2-PFUdA**

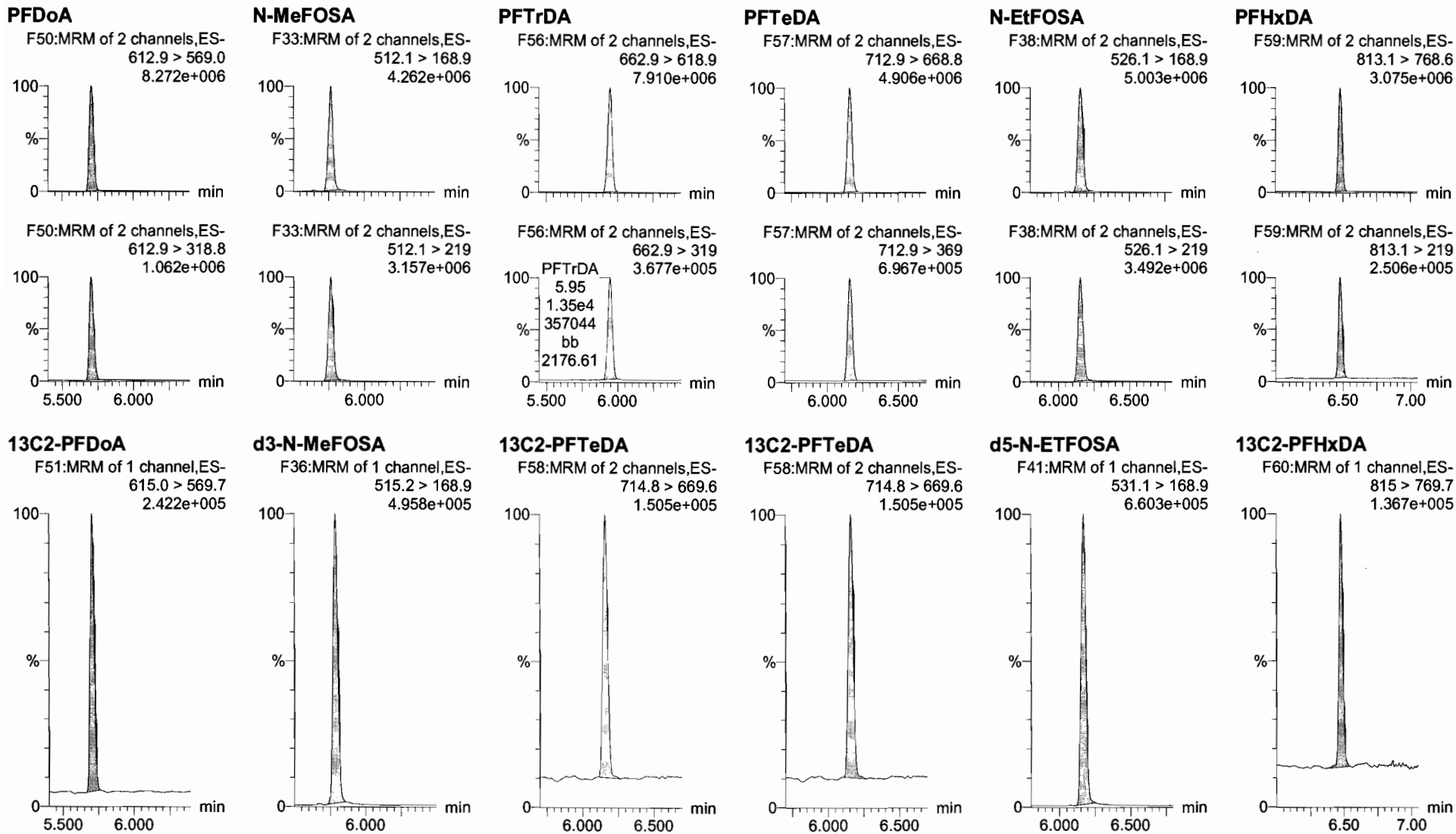
F43:MRM of 1 channel,ES-  
565 > 519.8  
3.630e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_10, Date: 24-Dec-2017, Time: 14:06:14, ID: ST171224M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803

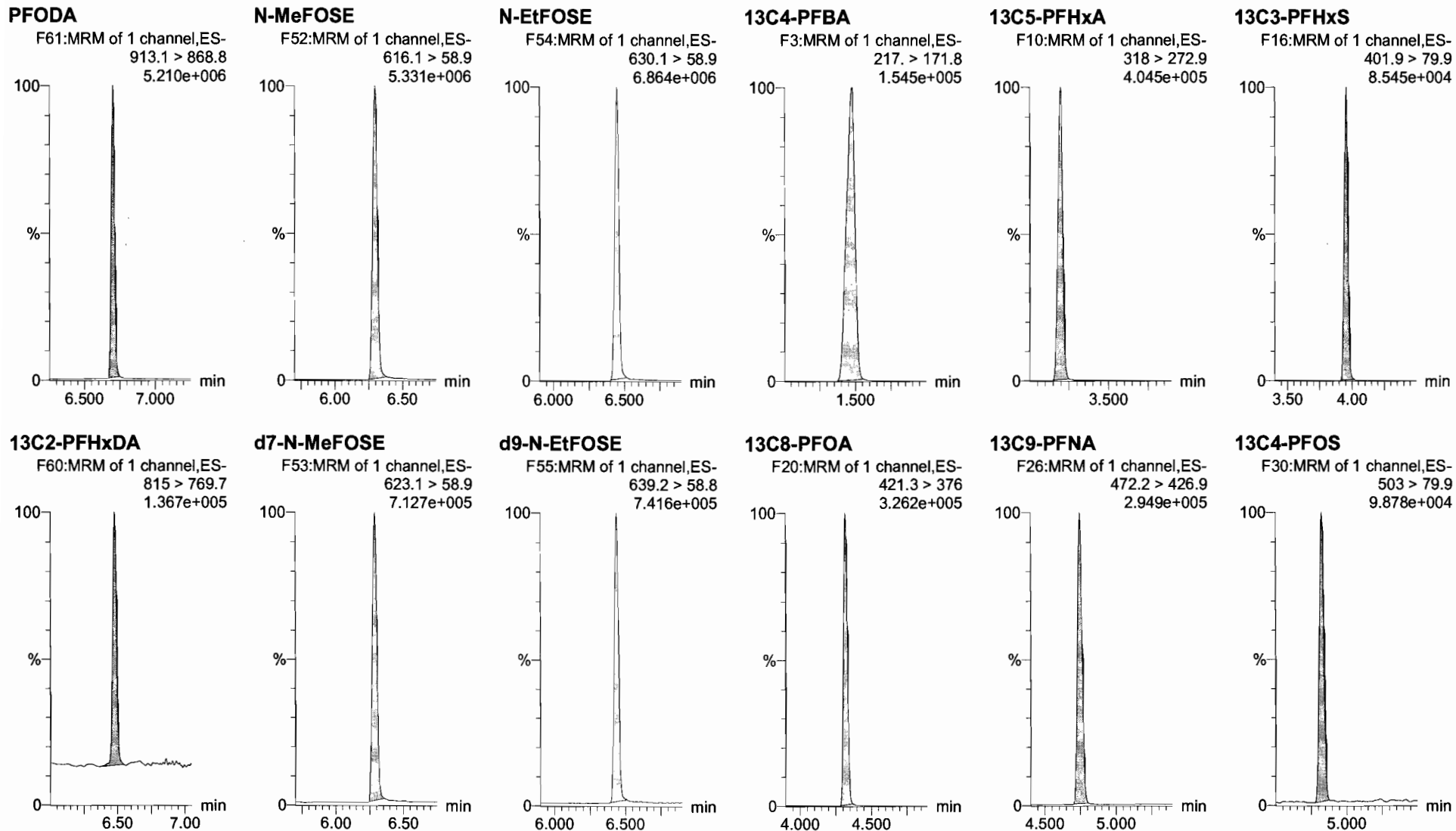




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Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
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Name: 171224M1\_10, Date: 24-Dec-2017, Time: 14:06:14, ID: ST171224M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803



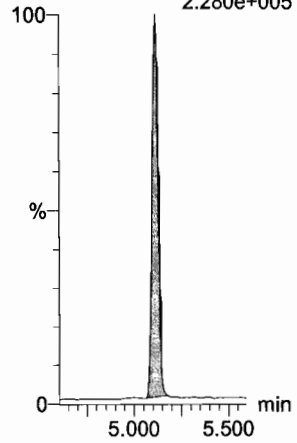
Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_10, Date: 24-Dec-2017, Time: 14:06:14, ID: ST171224M1-9 PFC CS6 17L1803, Description: PFC CS6 17L1803

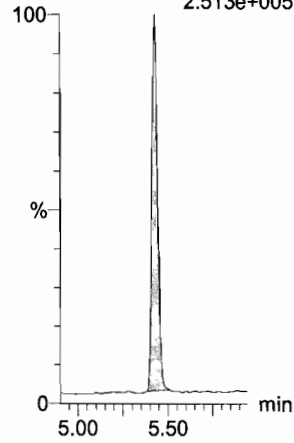
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.280e+005



13C7-PFUdA

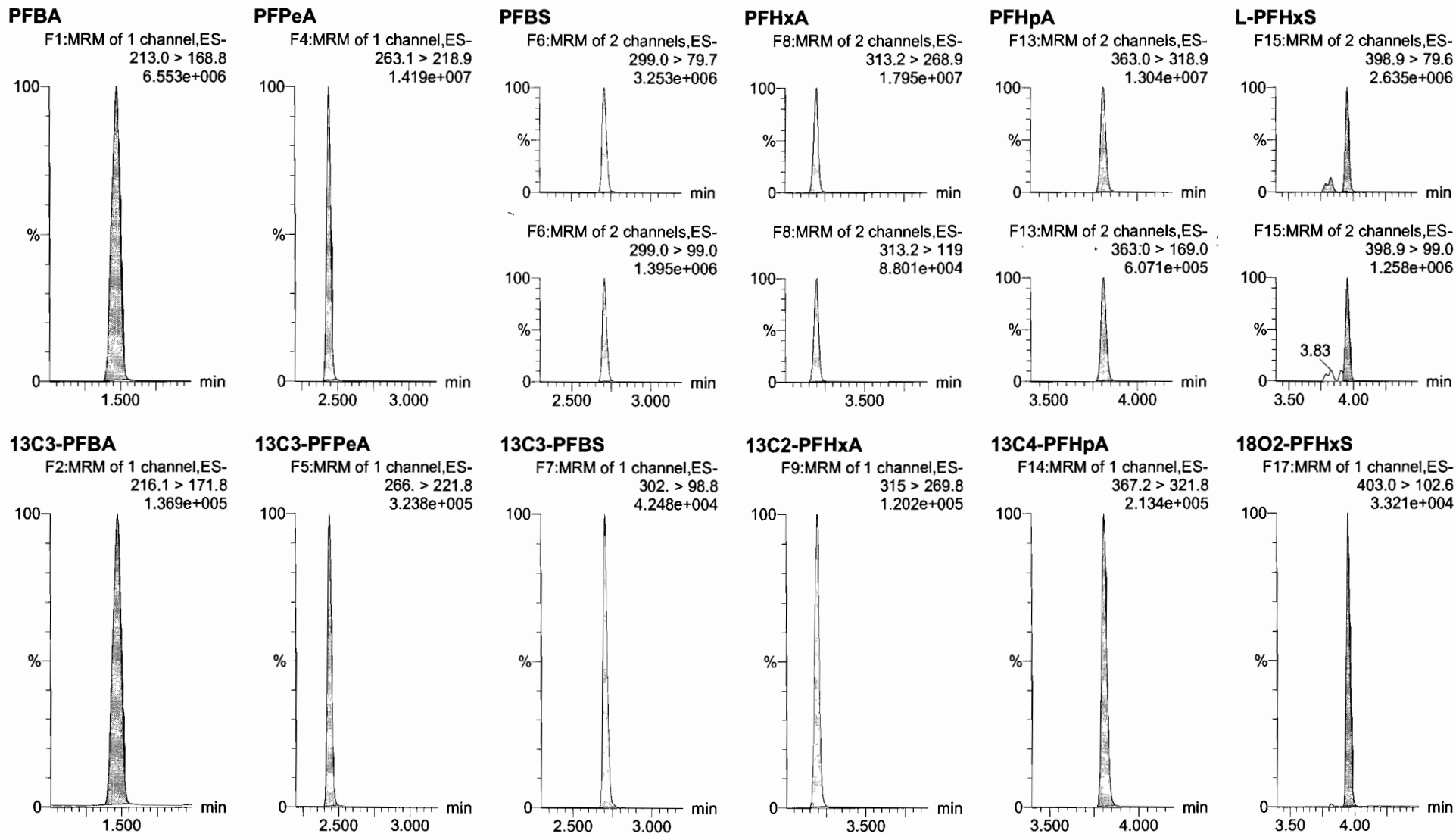
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.513e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_11, Date: 24-Dec-2017, Time: 14:17:25, ID: ST171224M1-10 PFC CS7 17L1804, Description: PFC CS7 17L1804

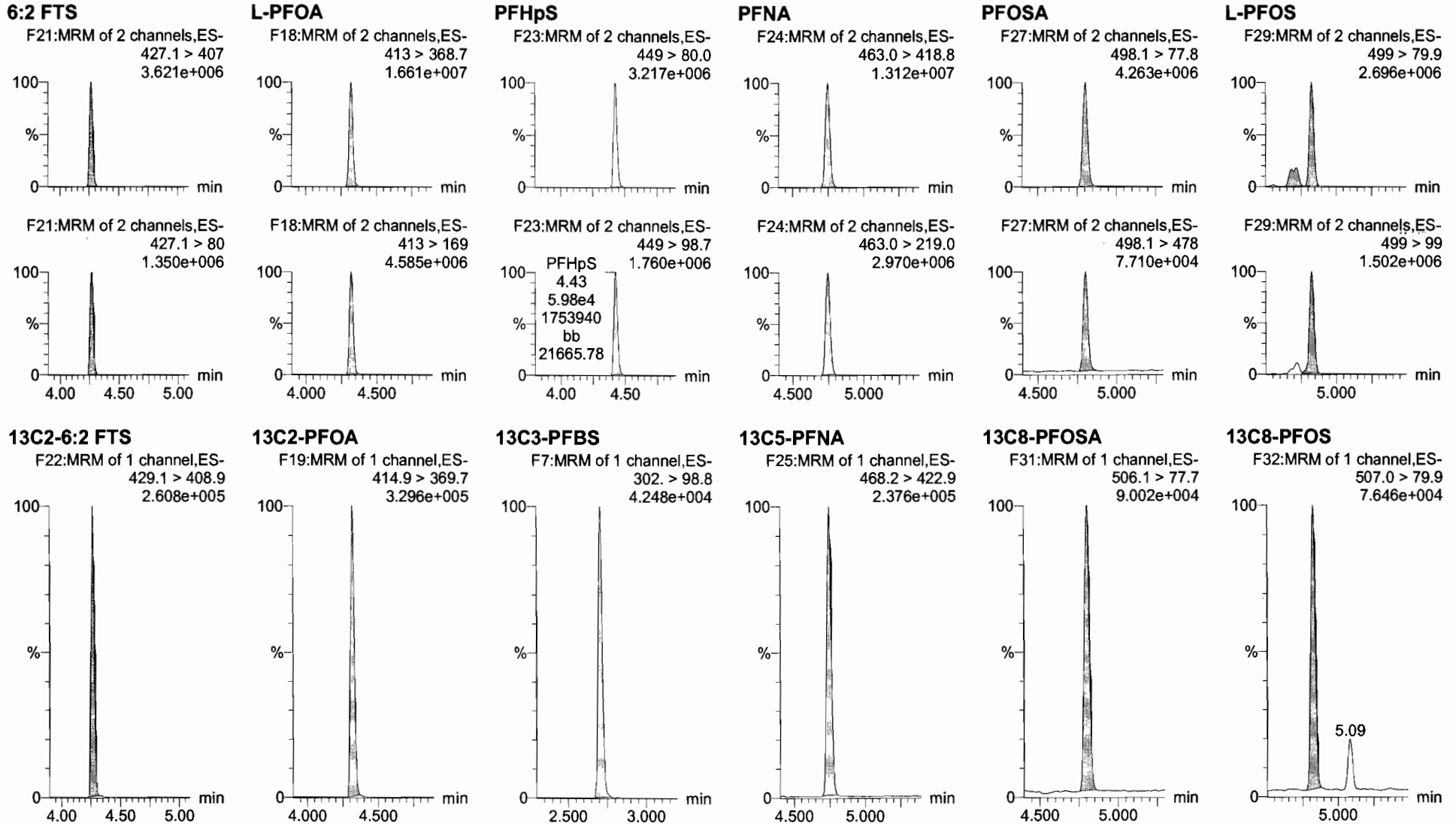


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_11, Date: 24-Dec-2017, Time: 14:17:25, ID: ST171224M1-10 PFC CS7 17L1804, Description: PFC CS7 17L1804



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

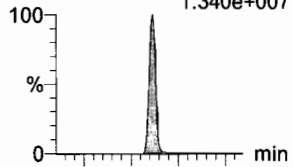
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

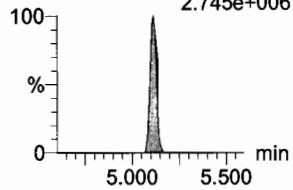
Name: 171224M1\_11, Date: 24-Dec-2017, Time: 14:17:25, ID: ST171224M1-10 PFC CS7 17L1804, Description: PFC CS7 17L1804

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.340e+007

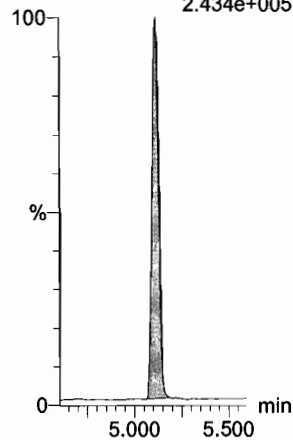


F34:MRM of 2 channels,ES-  
513 > 219  
2.745e+006



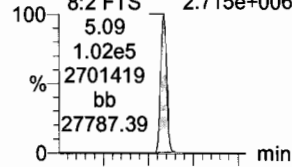
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.434e+005

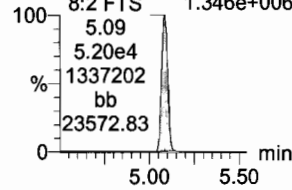


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
2.715e+006

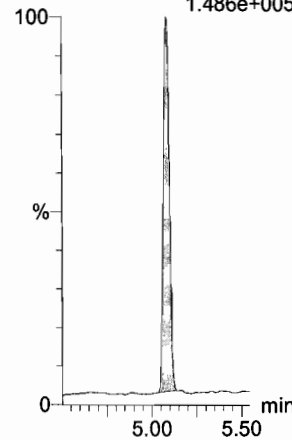


F39:MRM of 2 channels,ES-  
527 > 80  
1.346e+006



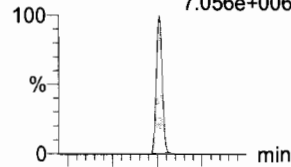
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
1.486e+005

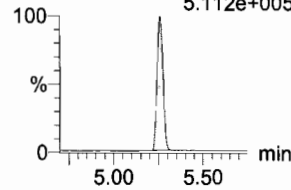


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
7.056e+006

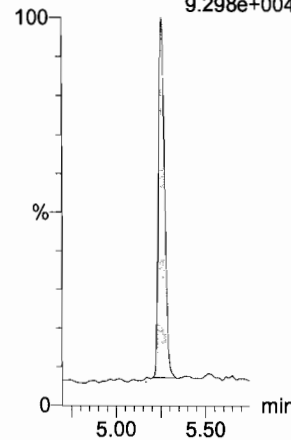


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
5.112e+005



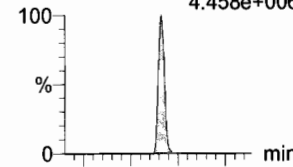
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
9.298e+004

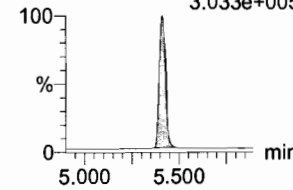


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
4.458e+006

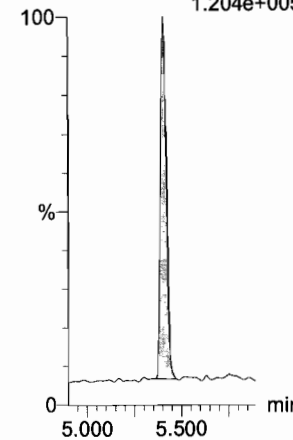


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
3.033e+005



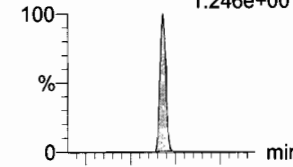
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.204e+005

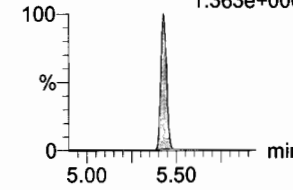


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
1.246e+007

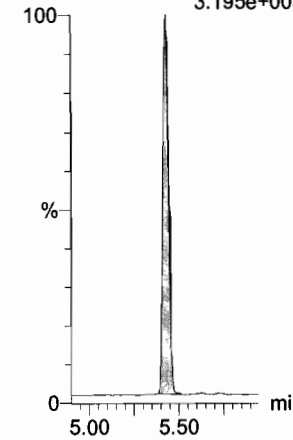


F42:MRM of 2 channels,ES-  
563.0 > 269  
1.363e+006



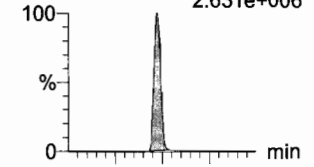
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.195e+005

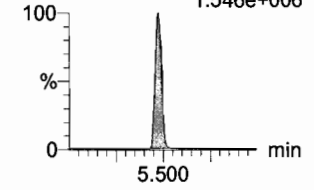


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
2.631e+006

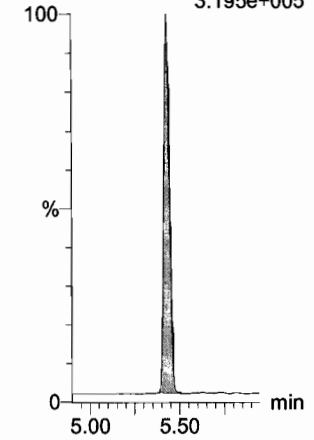


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
1.546e+006



**13C2-PFUdA**

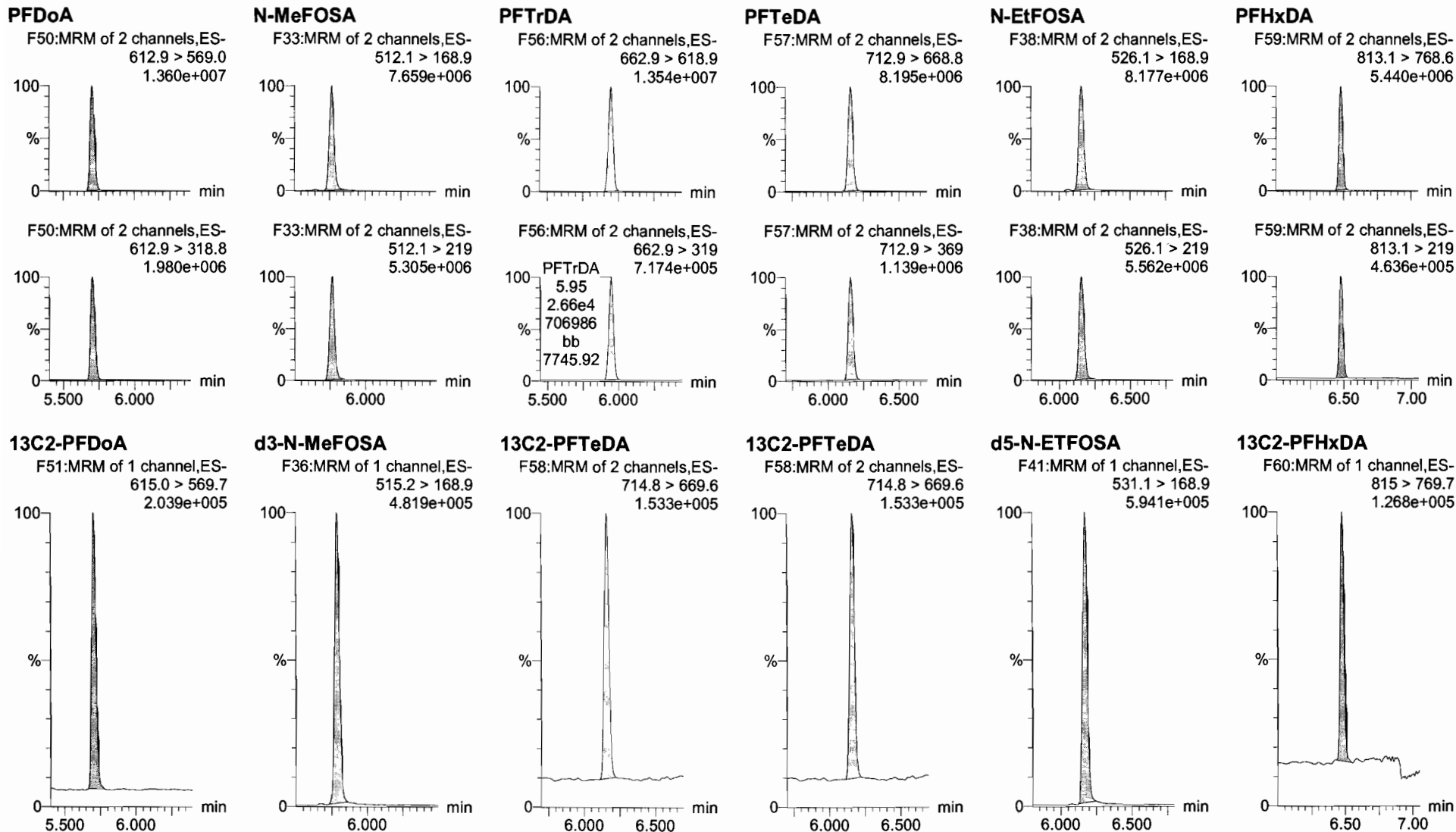
F43:MRM of 1 channel,ES-  
565 > 519.8  
3.195e+005



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_11, Date: 24-Dec-2017, Time: 14:17:25, ID: ST171224M1-10 PFC CS7 17L1804, Description: PFC CS7 17L1804

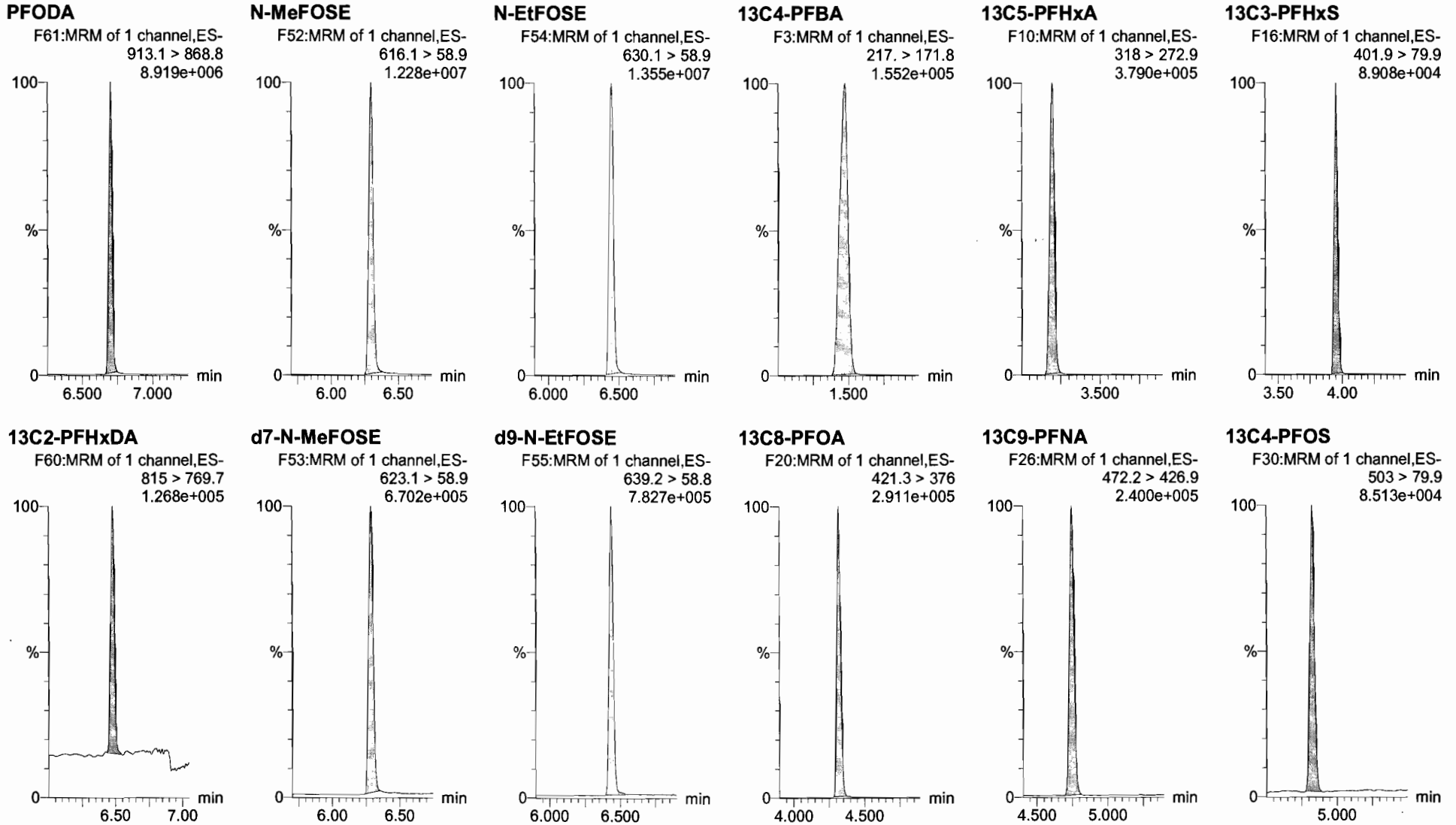


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_11, Date: 24-Dec-2017, Time: 14:17:25, ID: ST171224M1-10 PFC CS7 17L1804, Description: PFC CS7 17L1804



Dataset: U:\Q4.PRO\results\171224M1\171224M1\_crvB.qld

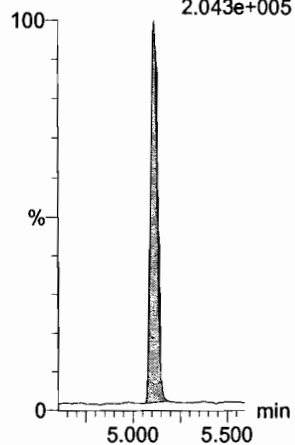
Last Altered: Tuesday, December 26, 2017 14:25:27 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:27:31 Pacific Standard Time

Name: 171224M1\_11, Date: 24-Dec-2017, Time: 14:17:25, ID: ST171224M1-10 PFC CS7 17L1804, Description: PFC CS7 17L1804

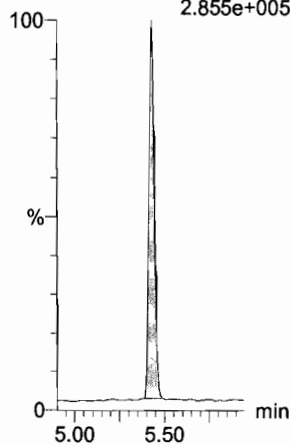
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.043e+005



13C7-PFUDa

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.855e+005





Ⓛ Not present in SS

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_13.qld

Last Altered: Tuesday, December 26, 2017 14:48:54 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 14:49:14 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 14:44:36  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

CP 12/26/17

JFA 12/26/2017

Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.32e3	1.01e4	1.0000		1.47	1.47	11.5	9.487	94.9
2	2 PFPeA	263.1 > 218.9	1.13e4	1.39e4	1.0000		2.44	2.44	10.2	9.430	94.3
3	3 PFBS	299.0 > 79.7	2.38e3	1.54e3	1.0000		2.70	2.71	19.2	9.091	90.9
4	4 PFHxA	313.2 > 268.9	1.33e4	4.39e3	1.0000		3.20	3.20	15.1	10.332	103.3
5	5 PFHpA	363.0 > 318.9	1.14e4	8.72e3	1.0000		3.80	3.81	16.3	10.607	106.1
6	6 L-PFHxS	398.9 > 79.6	2.10e3	1.34e3	1.0000		3.95	3.95	19.6	8.678	86.8
7	8 6:2 FTS	427.1 > 407	2.66e3	1.41e4	1.0000		4.26	4.26	2.36	10.798	108.0
8	9 L-PFOA	413 > 368.7	1.14e4	1.41e4	1.0000		4.32	4.32	10.1	8.980	89.8
9	11 PFHpS	449 > 80.0	2.42e3	1.41e4	1.0000		4.43	4.42	2.16	8.604	86.0
10	12 PFNA	463.0 > 418.8	1.27e4	1.35e4	1.0000		4.75	4.75	11.7	7.980	79.8
11	13 PFOSA	498.1 > 77.8	3.64e3	4.55e3	1.0000		4.81	4.80	10.0	10.550	105.5
12	14 L-PFOS	499 > 79.9	2.90e3	4.09e3	1.0000		4.83	4.83	8.88	7.952	79.5
13	16 PFDA	513 > 468.8	1.26e4	1.36e4	1.0000		5.11	5.11	11.6	8.538	85.4
14	17 8:2 FTS	527 > 506.9	2.58e3	1.36e4	1.0000		5.09	5.08	2.37	9.261	92.6
15	18 N-MeFOSAA	570.1 > 419	6.74e3	4.81e3	1.0000		5.26	5.26	17.5	8.755	87.5
16	19 N-EtFOSAA	584.2 > 419	5.32e3	5.19e3	1.0000		5.42	5.41	12.8	9.897	99.0
17	20 PFUdA	563.0 > 518.9	1.16e4	1.24e4	1.0000		5.43	5.43	11.7	11.036	110.4
18	21 PFDS	598.8 > 80	2.99e3	1.24e4	1.0000		5.50	5.47	3.01	9.528	95.3
19	22 PFDoA	612.9 > 569.0	1.38e4	8.12e3	1.0000		5.70	5.70	21.2	10.114	101.1
20	23 N-MeFOSA	512.1 > 168.9		2.04e4	1.0000		5.77				
21	24 PFTTrDA	662.9 > 618.9	1.06e4	7.57e3	1.0000		5.95	5.94	17.5	7.117	71.2
22	25 PFTeDA	712.9 > 668.8	8.78e3	7.57e3	1.0000		6.16	6.16	14.5	7.798	78.0
23	26 N-EtFOSA	526.1 > 168.9		3.07e4	1.0000		6.15				
24	27 PFHxDA	813.1 > 768.6		3.89e3	1.0000		6.48				
25	28 PFOA	913.1 > 868.8		3.89e3	1.0000		6.70				
26	29 N-MeFOSE	616.1 > 58.9		2.81e4	1.0000		6.30				
27	30 N-EtFOSE	630.1 > 58.9		3.06e4	1.0000		6.42				
28	31 13C3-PFBA	216.1 > 171.8	1.01e4	1.15e4	1.0000	0.895	1.47	1.47	11.0	12.335	98.7
29	32 13C3-PFPeA	266. > 221.8	1.39e4	1.53e4	1.0000	0.867	2.44	2.44	11.3	13.083	104.7
30	33 13C3-PFBS	302. > 98.8	1.54e3	1.53e4	1.0000	0.109	2.70	2.70	1.26	11.591	92.7
31	Work Order 171224M1-1 PFC ICV 17L1201	315 > 269.8	4.39e3	1.53e4	1.0000	0.777	3.20	3.20	3.58	4.608	92.2

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Dataset: U:\Q4.PRO\results\171224M1\171224M1\_13.qld

Last Altered: Tuesday, December 26, 2017 14:48:54 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:49:14 Pacific Standard Time

Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	8.72e3	1.53e4	1.0000	0.600	3.80	3.81	7.11	11.856	94.8
33	36 18O2-PFHxS	403.0 > 102.6	1.34e3	3.06e3	1.0000	0.444	3.95	3.95	5.48	12.328	98.6
34	37 13C2-6:2 FTS	429.1 > 408.9	2.85e3	1.11e4	1.0000	0.385	4.26	4.27	3.21	8.339	66.7
35	38 13C2-PFOA	414.9 > 369.7	1.41e4	1.11e4	1.0000	1.237	4.32	4.32	15.8	12.780	102.2
36	39 13C5-PFNA	468.2 > 422.9	1.35e4	1.24e4	1.0000	0.911	4.75	4.75	13.6	14.910	119.3
37	40 13C8-PFOA	506.1 > 77.7	4.55e3	1.24e4	1.0000	0.400	4.81	4.81	4.60	11.507	92.1
38	41 13C8-PFOS	507.0 > 79.9	4.09e3	3.34e3	1.0000	1.009	4.83	4.83	15.3	15.163	121.3
39	42 13C2-PFDA	515.1 > 469.9	1.36e4	9.04e3	1.0000	1.195	5.11	5.11	18.8	15.743	125.9
40	43 13C2-8:2 FTS	529.1 > 508.7	2.07e3	1.53e4	1.0000	0.168	5.09	5.09	1.69	10.029	80.2
41	44 d3-N-MeFOSAA	573.3 > 419	4.81e3	1.24e4	1.0000	0.418	5.26	5.26	4.87	11.630	93.0
42	45 d5-N-EtFOSAA	589.3 > 419	5.19e3	1.24e4	1.0000	0.445	5.42	5.41	5.25	11.814	94.5
43	46 13C2-PFUdA	565 > 519.8	1.24e4	1.24e4	1.0000	1.212	5.43	5.43	12.6	10.368	82.9
44	47 13C2-PFDoA	615.0 > 569.7	8.12e3	1.24e4	1.0000	0.685	5.70	5.70	8.22	11.996	96.0
45	48 d3-N-MeFOSA	515.2 > 168.9	2.04e4	1.24e4	1.0000	0.155	5.80	5.79	20.7	133.113	88.7
46	49 13C2-PFTeDA	714.8 > 669.6	7.57e3	1.24e4	1.0000	0.597	6.16	6.16	7.66	12.840	102.7
47	50 d5-N-ETFOSA	531.1 > 168.9	3.07e4	1.24e4	1.0000	0.227	6.16	6.17	31.1	136.621	91.1
48	51 13C2-PFHxDA	815 > 769.7	3.89e3	1.24e4	1.0000	0.902	6.48	6.48	3.93	4.357	87.1
49	52 d7-N-MeFOSE	623.1 > 58.9	2.81e4	1.24e4	1.0000	0.214	6.30	6.29	28.4	132.529	88.4
50	53 d9-N-EtFOSE	639.2 > 58.8	3.06e4	1.24e4	1.0000	0.219	6.42	6.44	30.9	141.460	94.3
51	54 13C4-PFBA	217. > 171.8	1.15e4	1.15e4	1.0000	1.000	1.47	1.47	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.53e4	1.53e4	1.0000	1.000	3.20	3.20	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.06e3	3.06e3	1.0000	1.000	3.95	3.95	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.11e4	1.11e4	1.0000	1.000	4.32	4.32	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.24e4	1.24e4	1.0000	1.000	4.75	4.75	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.34e3	3.34e3	1.0000	1.000	4.83	4.83	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	9.04e3	9.04e3	1.0000	1.000	5.11	5.11	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.24e4	1.24e4	1.0000	1.000	5.43	5.43	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\171224M1\171224M1\_13.qld

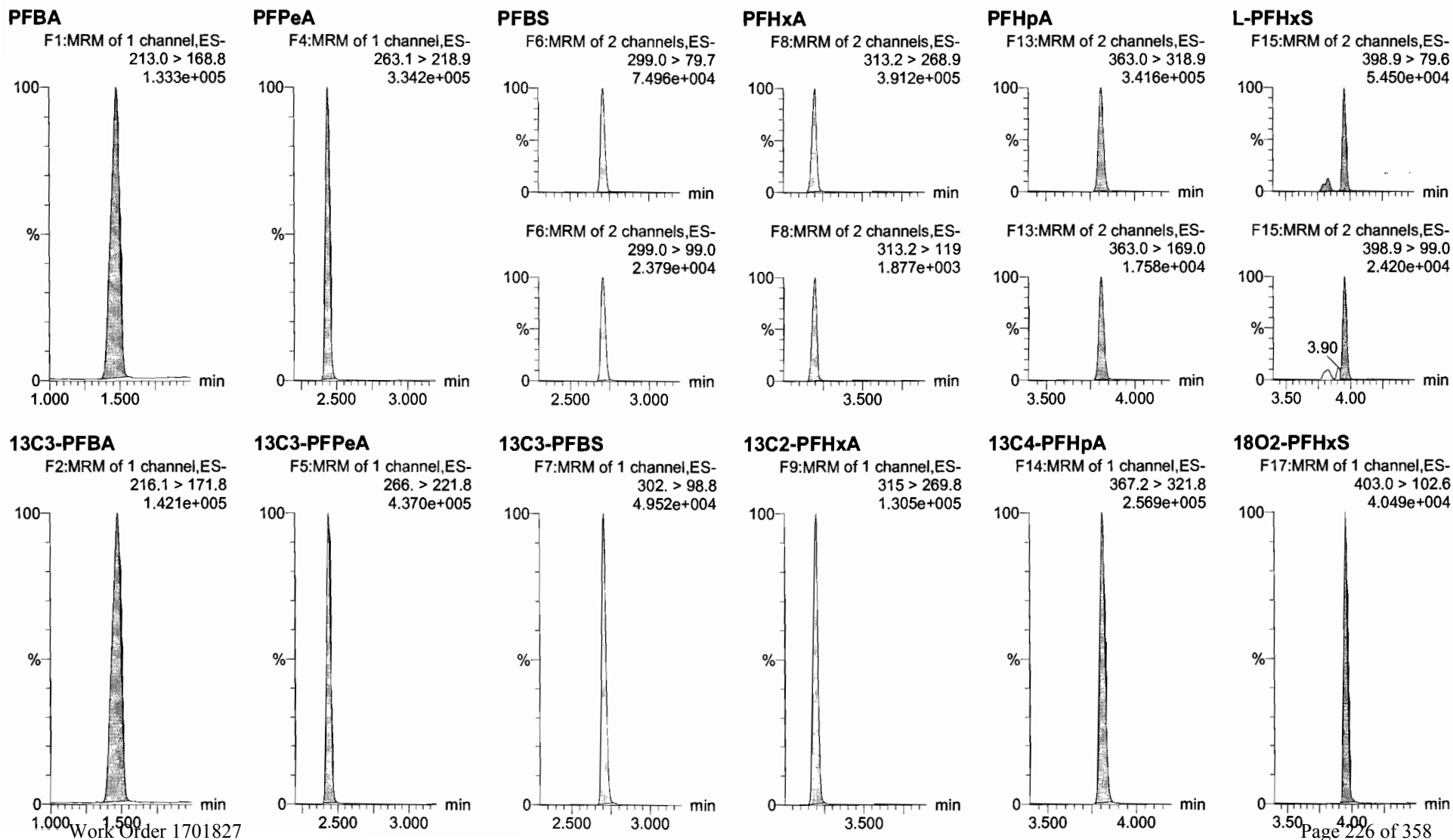
Last Altered: Tuesday, December 26, 2017 14:48:54 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:49:14 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122317.mdb 26 Dec 2017 14:44:36

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_12-24-17\_NEWIS.cdb 26 Dec 2017 14:44:46

Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

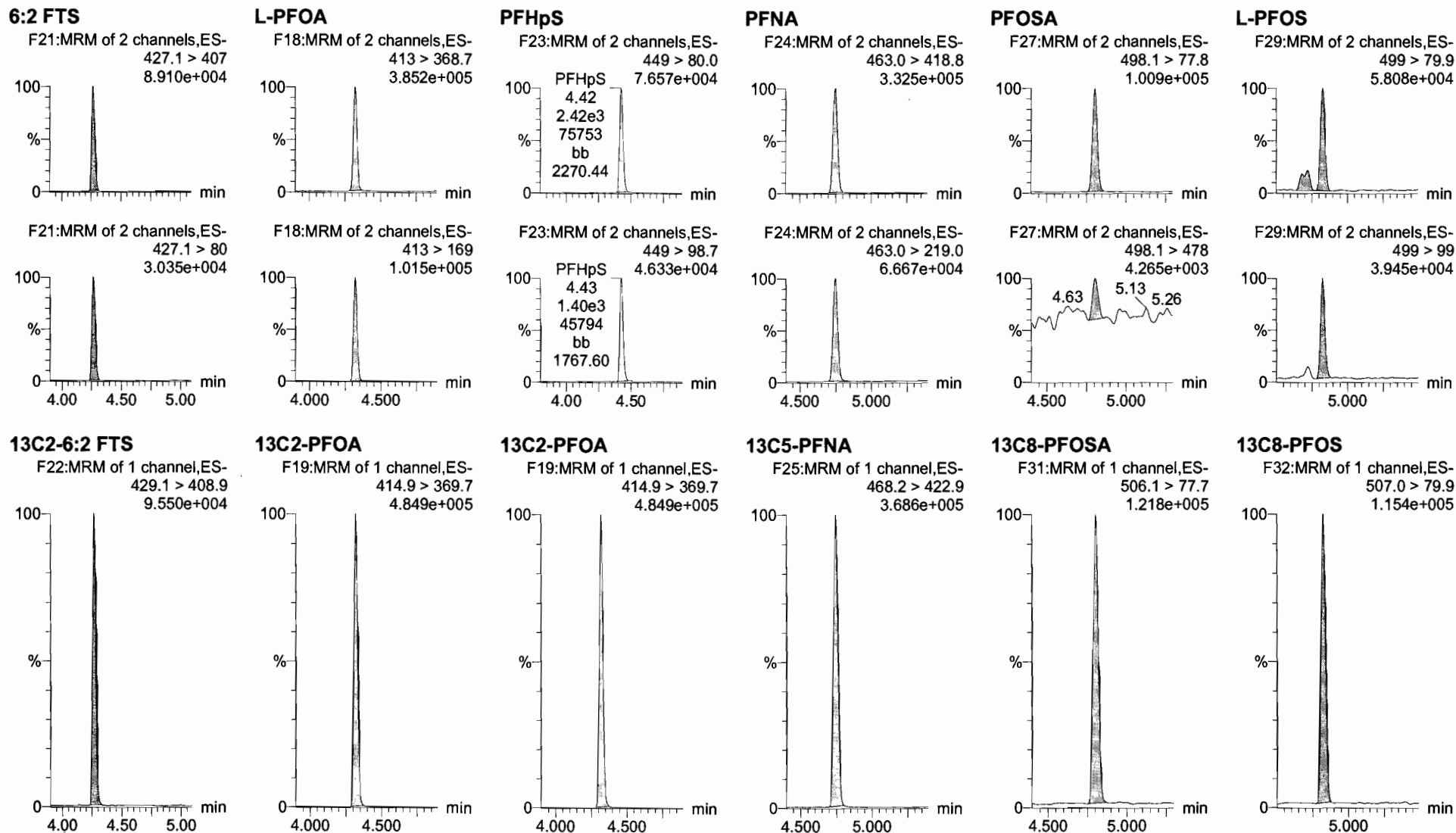


Dataset: U:\Q4.PRO\results\171224M1\171224M1\_13.qld

Last Altered: Tuesday, December 26, 2017 14:48:54 Pacific Standard Time

Printed: Tuesday, December 26, 2017 14:49:14 Pacific Standard Time

Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201



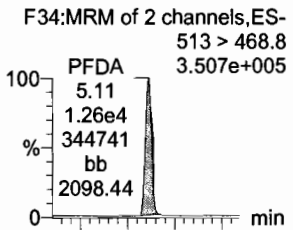
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Last Altered: Tuesday, December 26, 2017 14:48:54 Pacific Standard Time

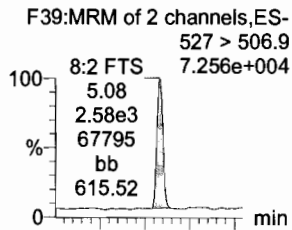
Printed: Tuesday, December 26, 2017 14:49:14 Pacific Standard Time

Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

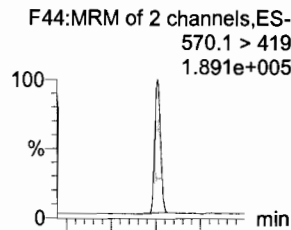
**PFDA**



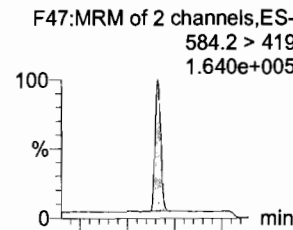
**8:2 FTS**



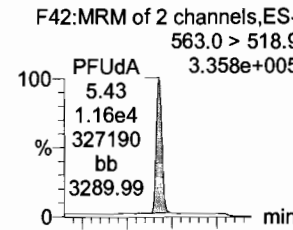
**N-MeFOSAA**



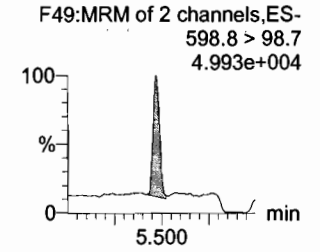
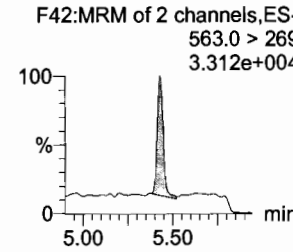
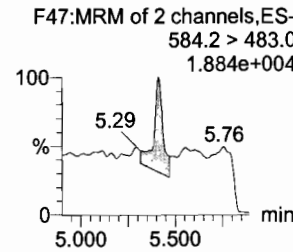
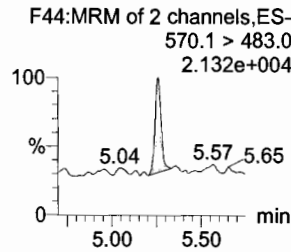
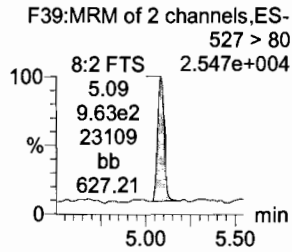
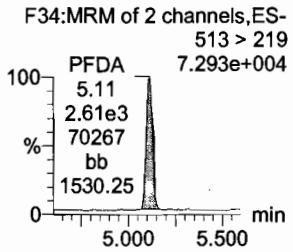
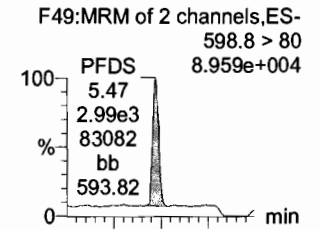
**N-EtFOSAA**



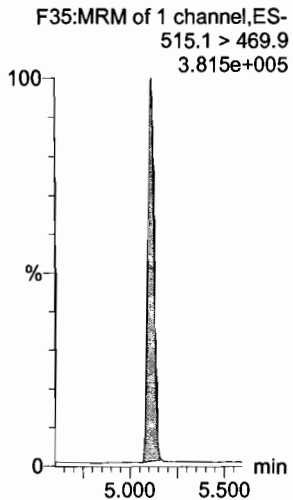
**PFUdA**



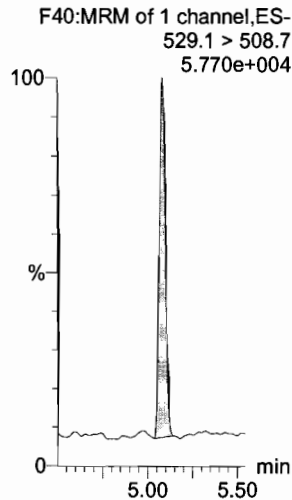
**PFDS**



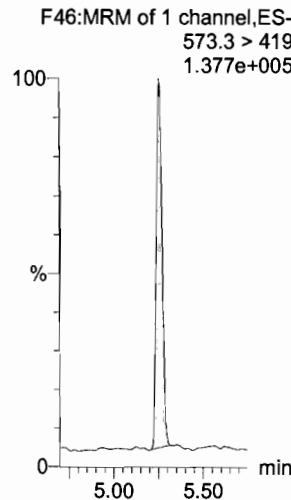
**13C2-PFDA**



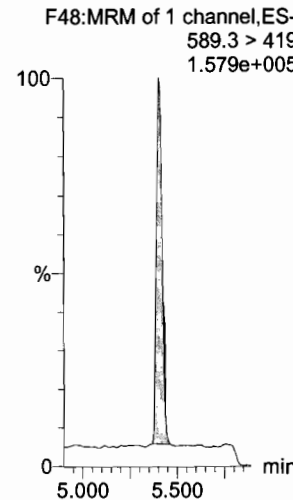
**13C2-8:2 FTS**



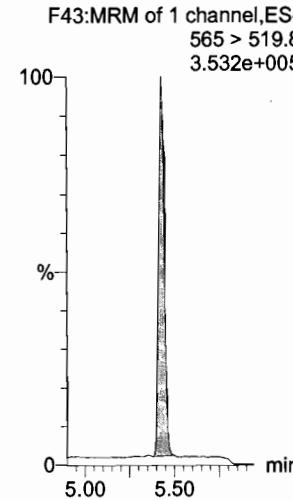
**d3-N-MeFOSAA**



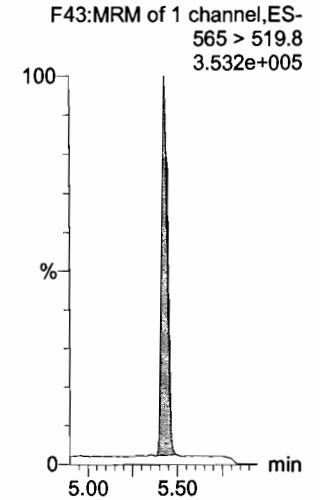
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUDa**



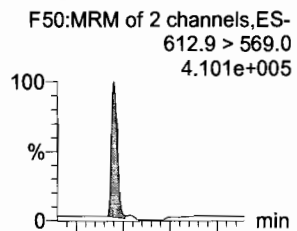
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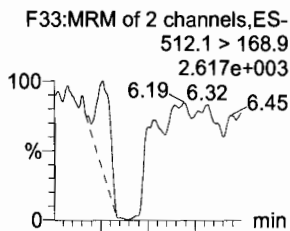
Printed: Tuesday, December 26, 2017 14:49:14 Pacific Standard Time

Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

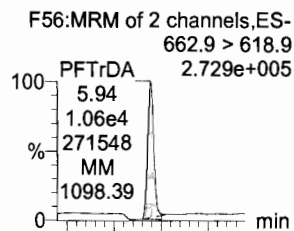
**PFDoA**



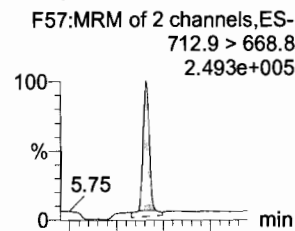
**N-MeFOSA**



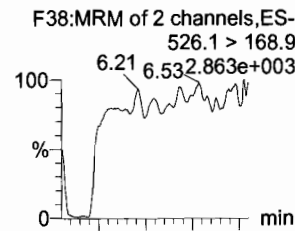
**PFTrDA**



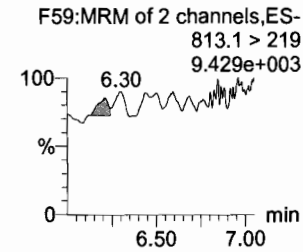
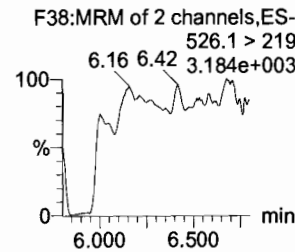
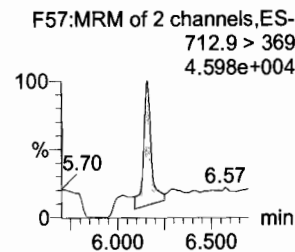
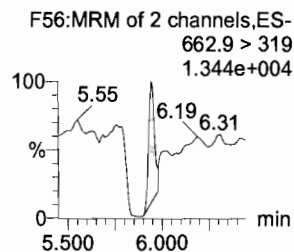
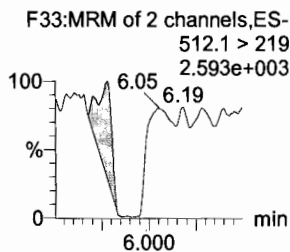
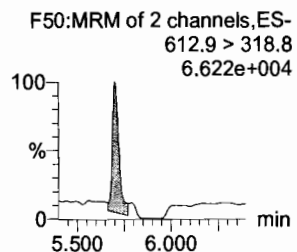
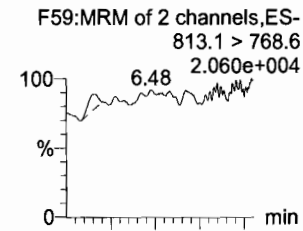
**PFTeDA**



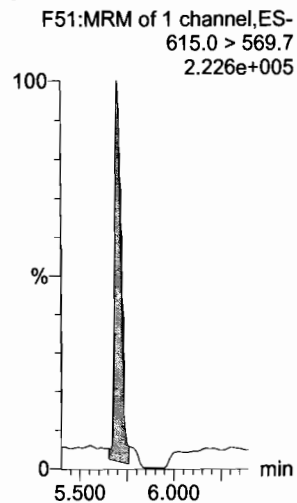
**N-EtFOSA**



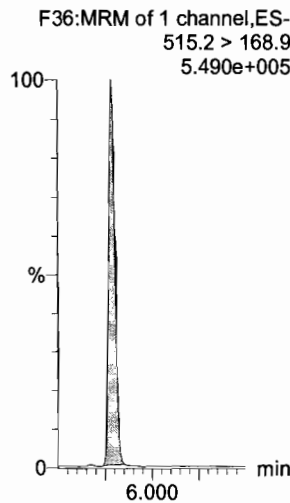
**PFHxDA**



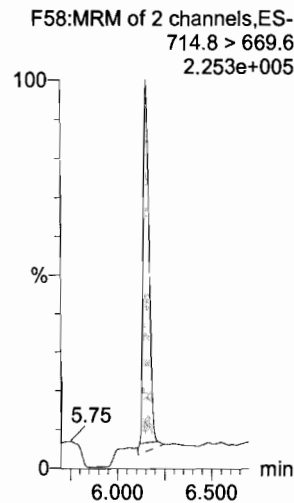
**13C2-PFDoA**



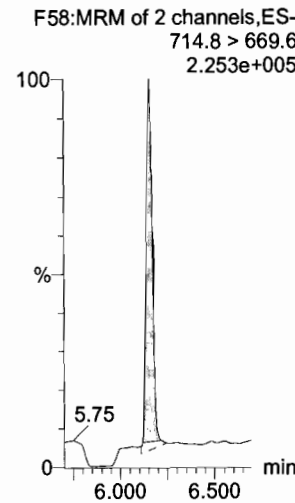
**d3-N-MeFOSA**



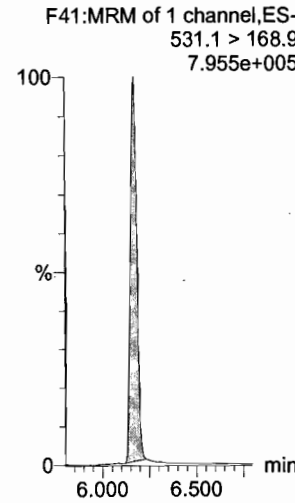
**13C2-PFTeDA**



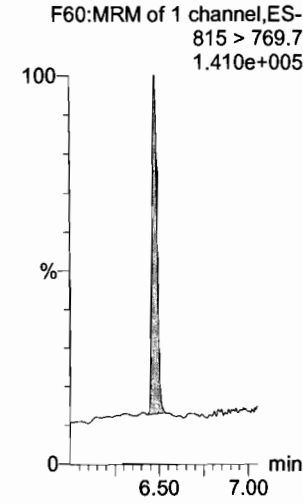
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**

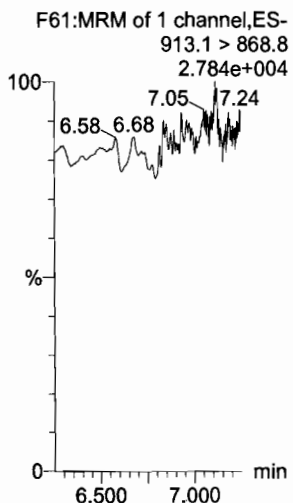


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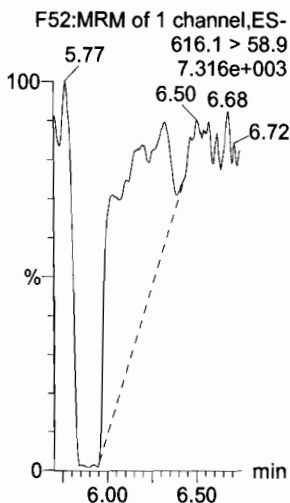
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Name: 171224M1\_13, Date: 24-Dec-2017, Time: 14:39:47, ID: ICV171224M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

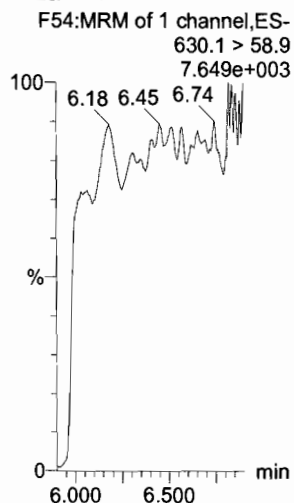
**PFODA**



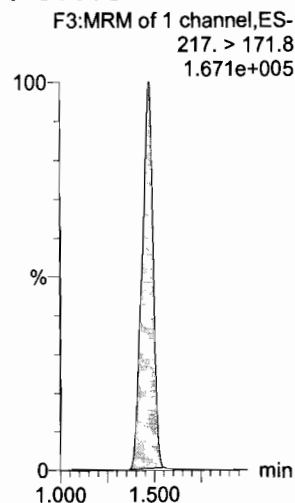
**N-MeFOSE**



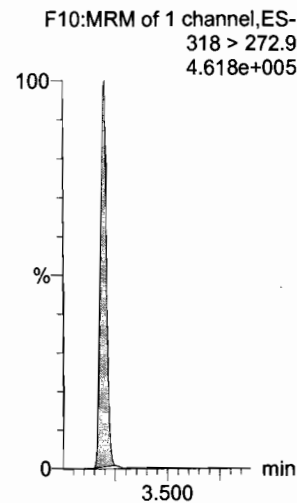
**N-EtFOSE**



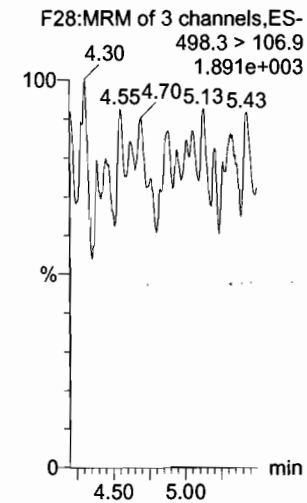
**13C4-PFBA**



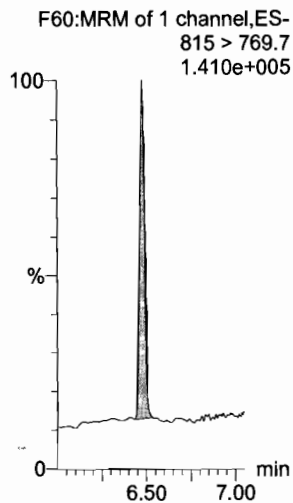
**13C5-PFHxA**



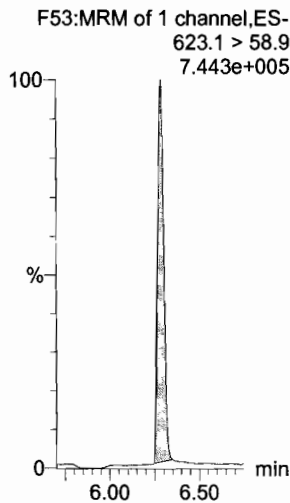
**TCDA**



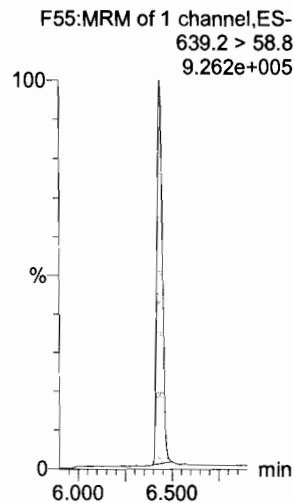
**13C2-PFHxDA**



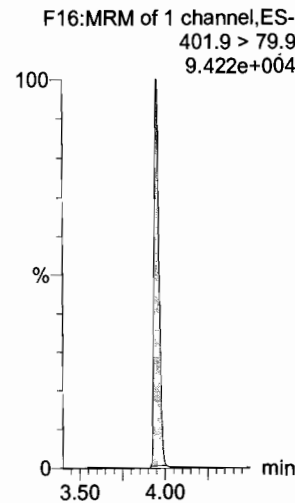
**d7-N-MeFOSE**



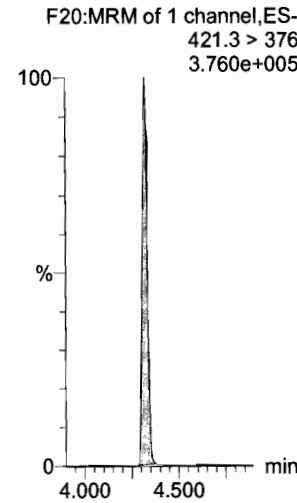
**d9-N-EtFOSE**



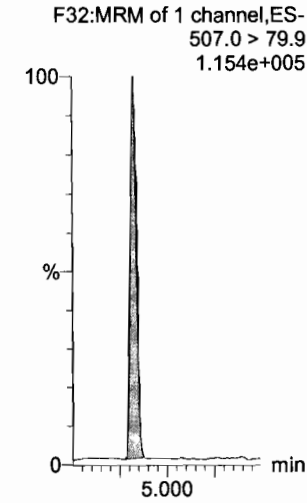
**13C3-PFHxS**



**13C8-PFOA**



**13C8-PFOS**



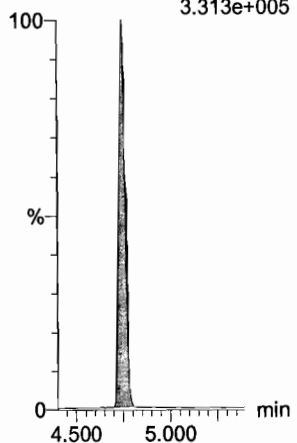
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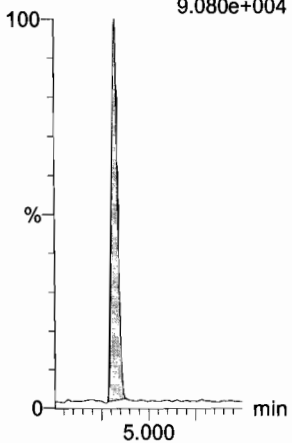
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.313e+005



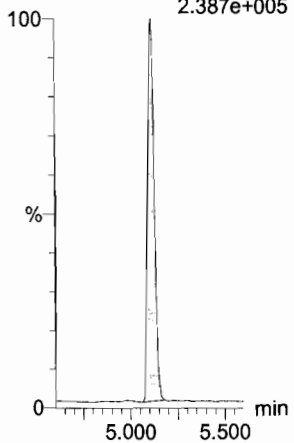
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
9.080e+004



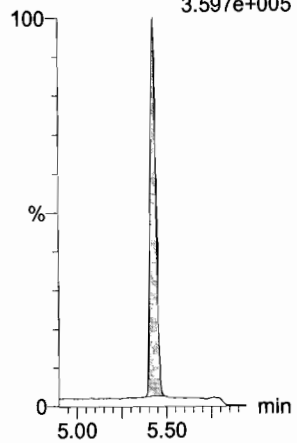
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.387e+005



**13C7-PFUDa**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.597e+005





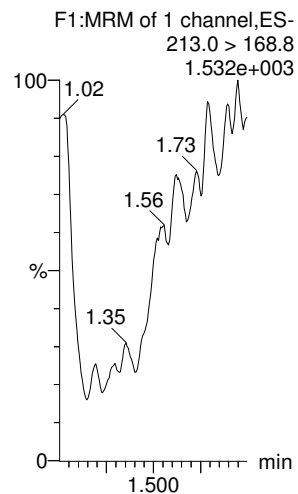
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Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time  
Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

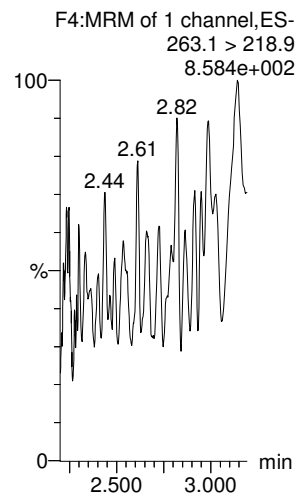
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Calibration: 26 Dec 2017 11:57:48

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

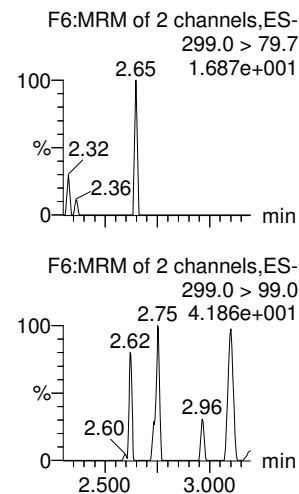
**PFBA**



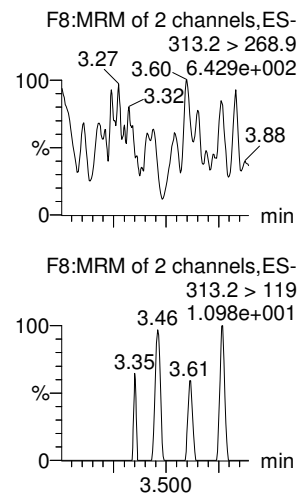
**PFPeA**



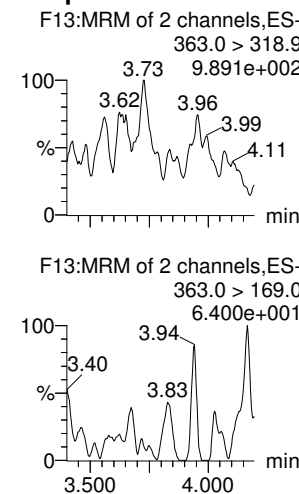
**PFBS**



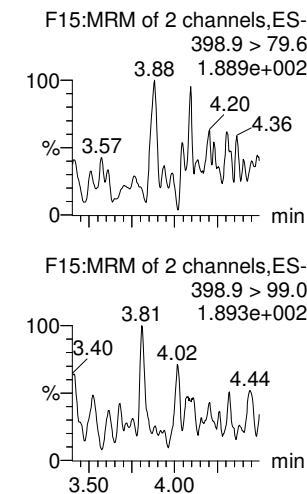
**PFHxA**



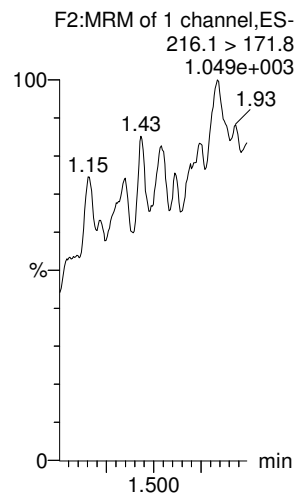
**PFHpA**



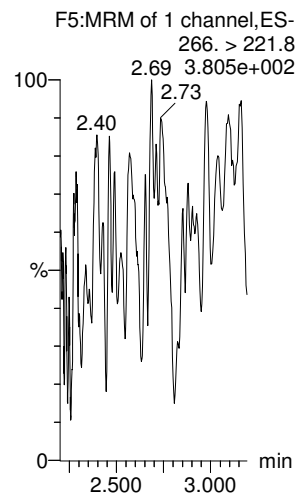
**L-PFHxS**



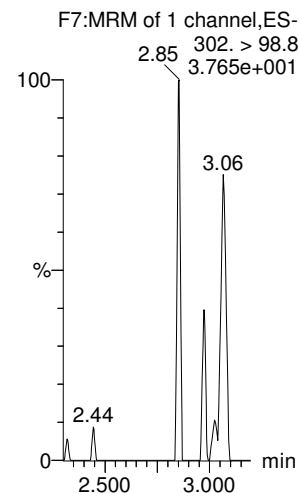
**13C3-PFBA**



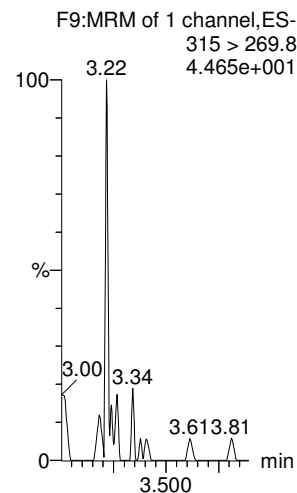
**13C3-PFPeA**



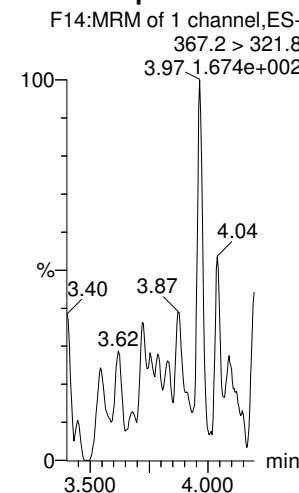
**13C3-PFBS**



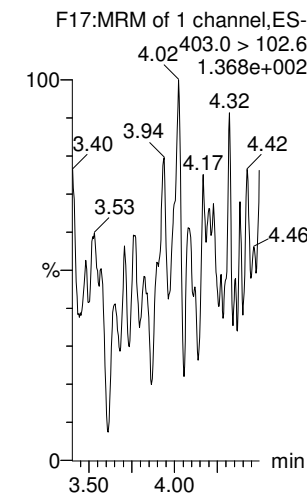
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



Dataset: Untitled

Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

**6:2 FTS**

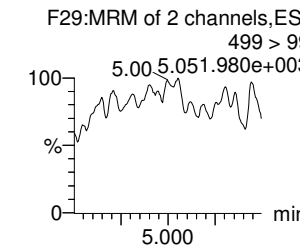
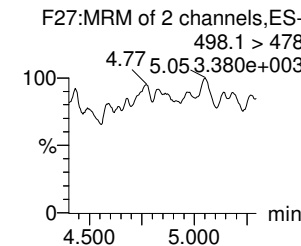
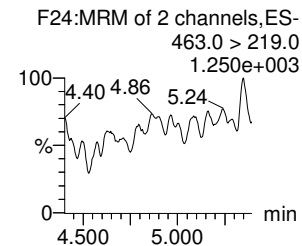
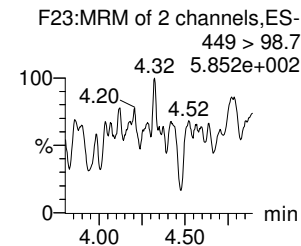
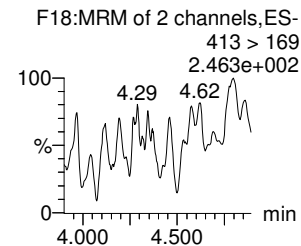
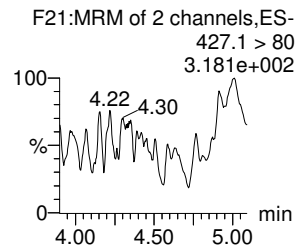
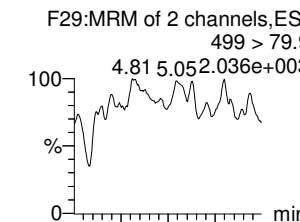
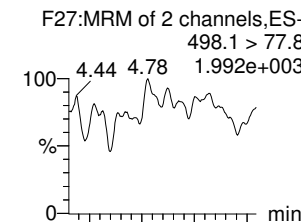
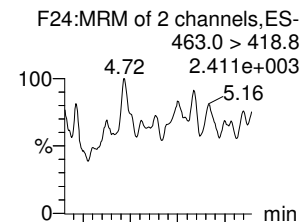
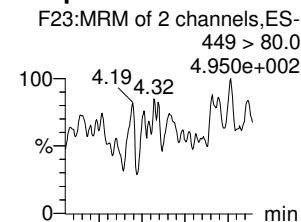
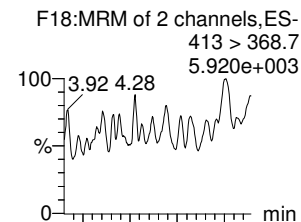
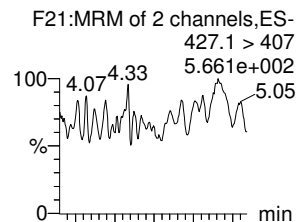
**L-PFOA**

**PFHpS**

**PFNA**

**PFOSA**

**L-PFOS**



**13C2-6:2 FTS**

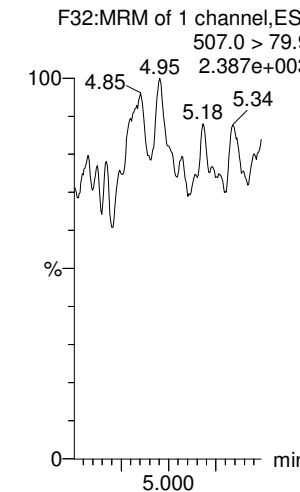
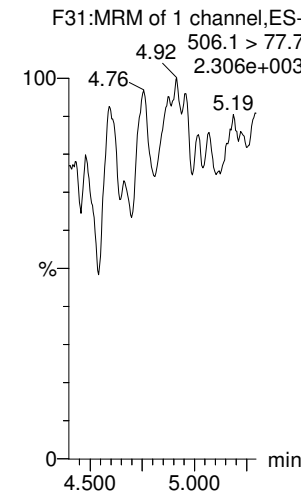
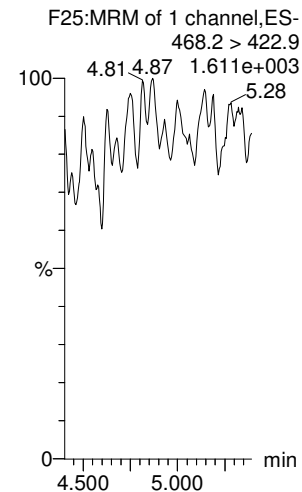
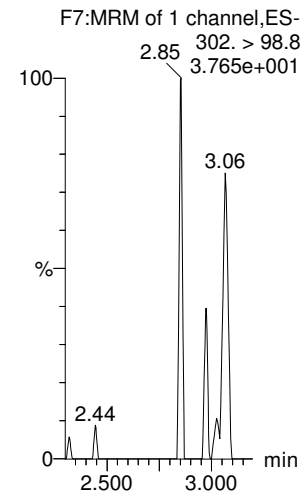
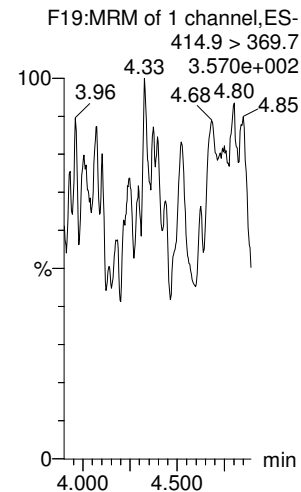
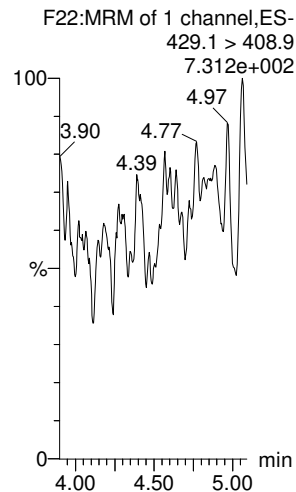
**13C2-PFOA**

**13C3-PFBS**

**13C5-PFNA**

**13C8-PFOA**

**13C8-PFOS**



Dataset: Untitled

Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time

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Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

**PFDA**

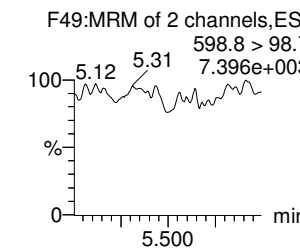
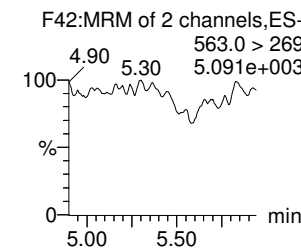
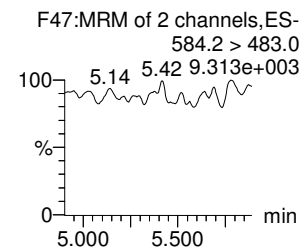
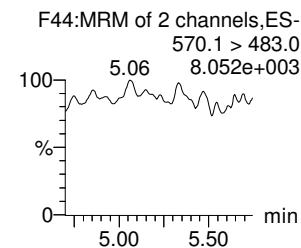
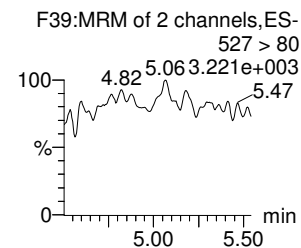
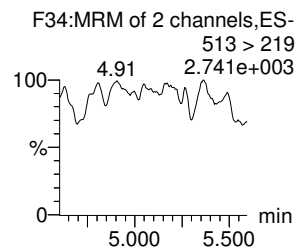
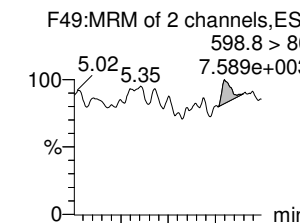
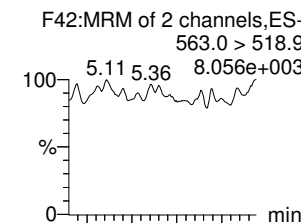
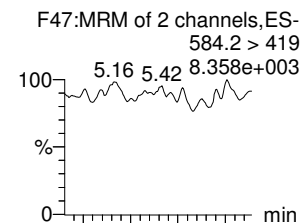
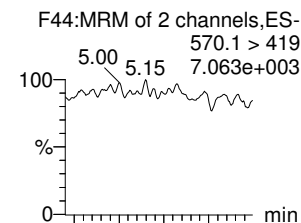
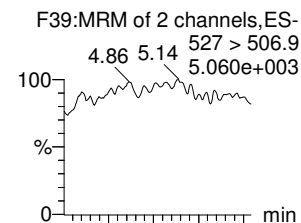
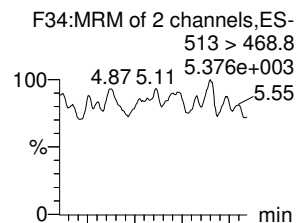
**8:2 FTS**

**N-MeFOSAA**

**N-EtFOSAA**

**PFUdA**

**PFDS**



**13C2-PFDA**

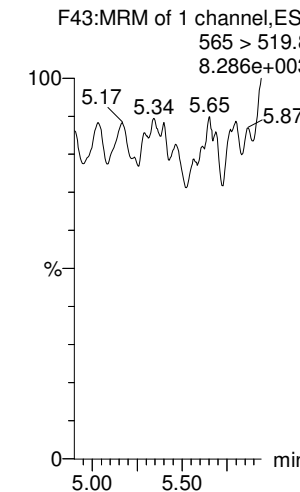
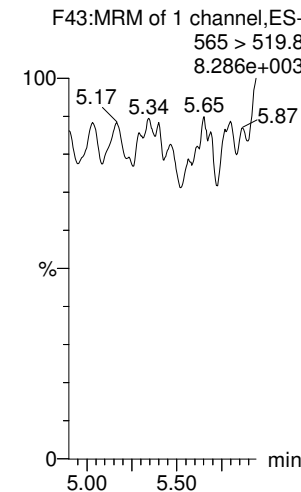
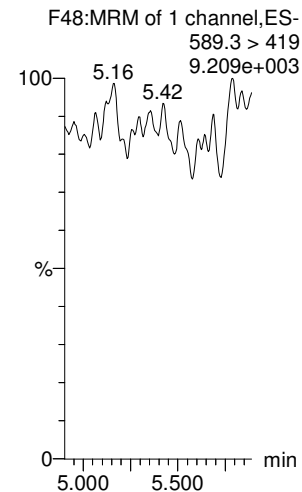
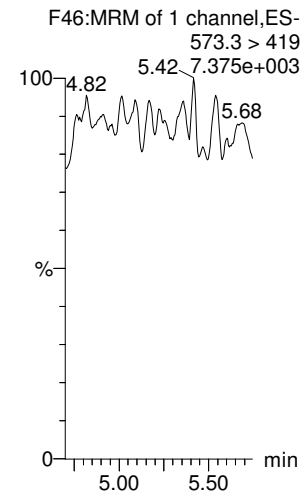
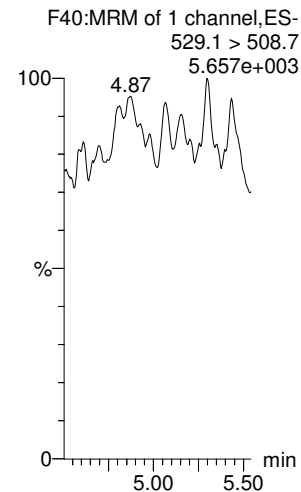
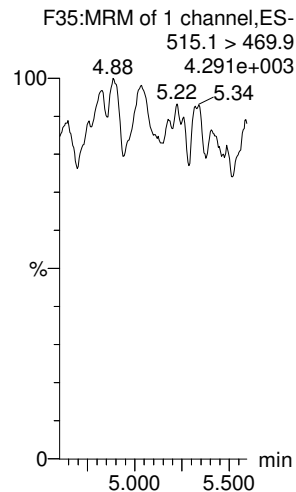
**13C2-8:2 FTS**

**d3-N-MeFOSAA**

**d5-N-EtFOSAA**

**13C2-PFUdA**

**13C2-PFUdA**



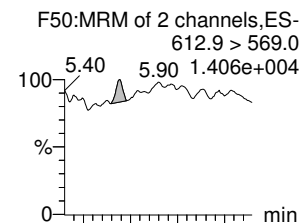
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Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time

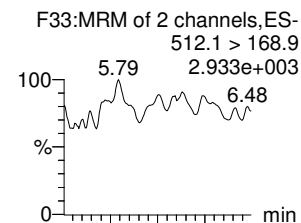
Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

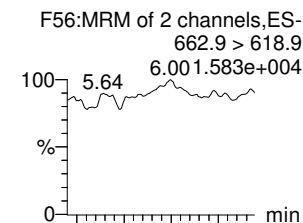
**PFDoA**



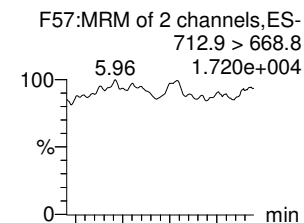
**N-MeFOSA**



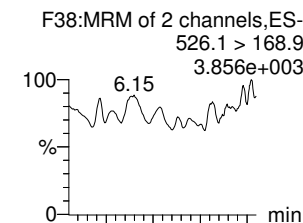
**PFTrDA**



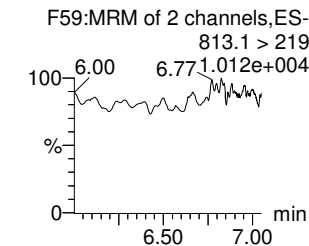
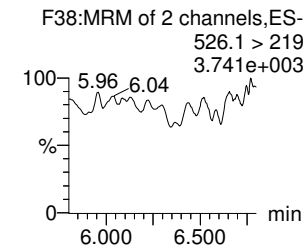
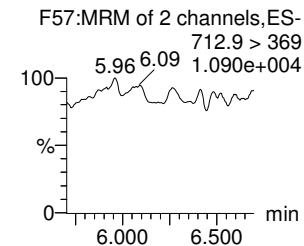
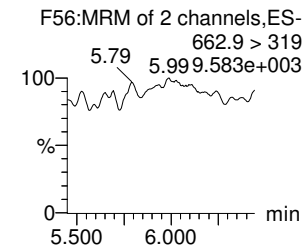
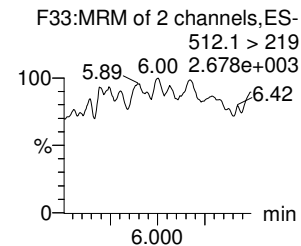
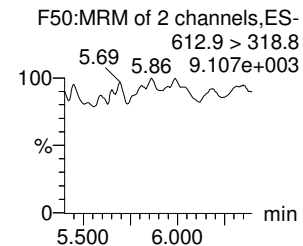
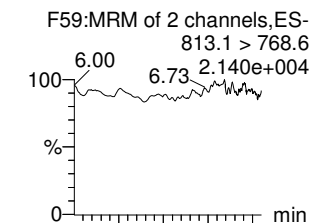
**PFTeDA**



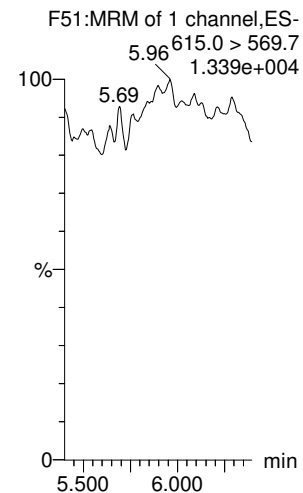
**N-EtFOSA**



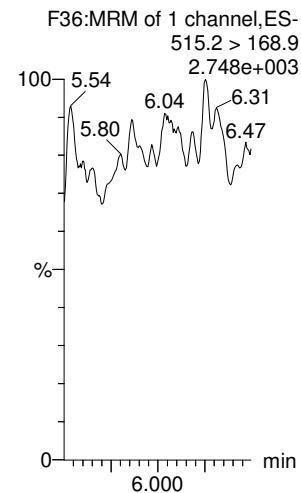
**PFHxDA**



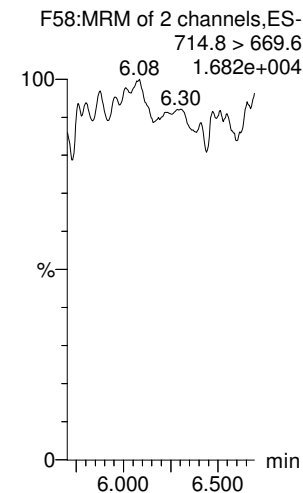
**13C2-PFDoA**



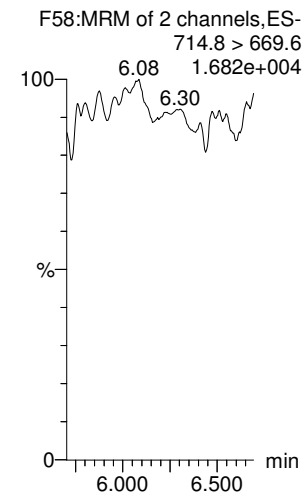
**d3-N-MeFOSA**



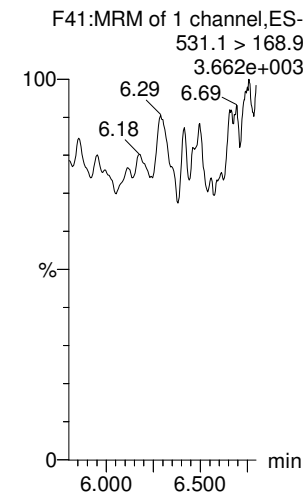
**13C2-PFTeDA**



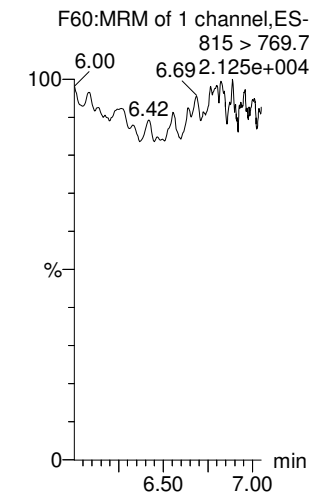
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



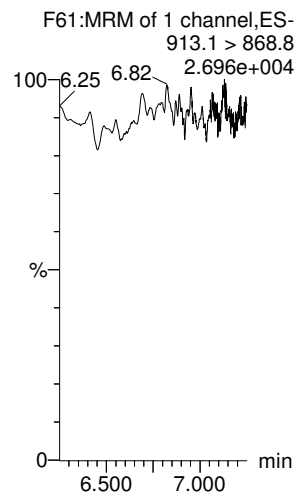
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Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time

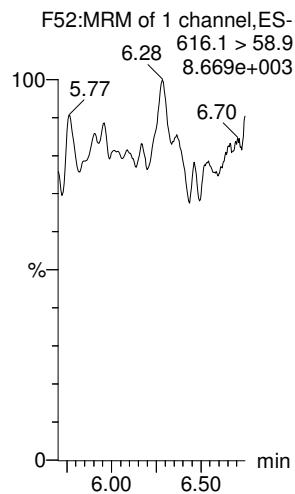
Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

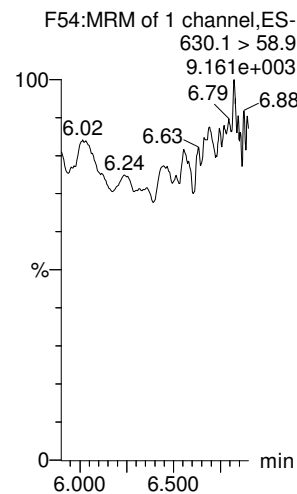
**PFODA**



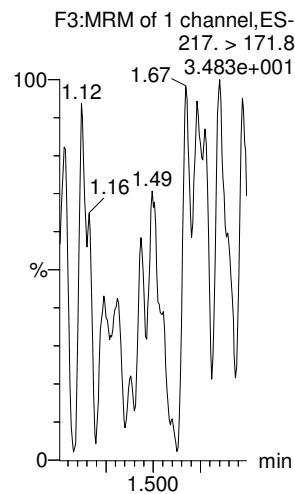
**N-MeFOSE**



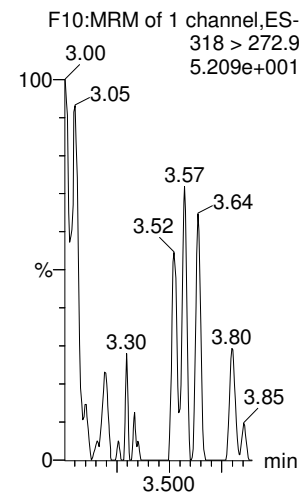
**N-EtFOSE**



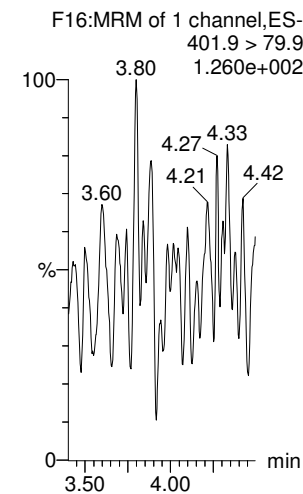
**13C4-PFBA**



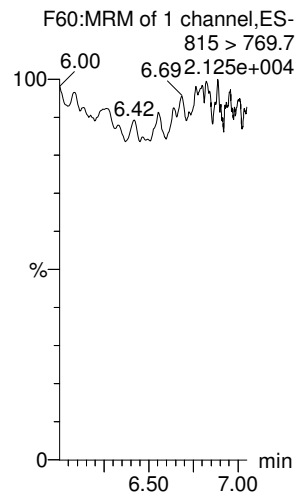
**13C5-PFHxA**



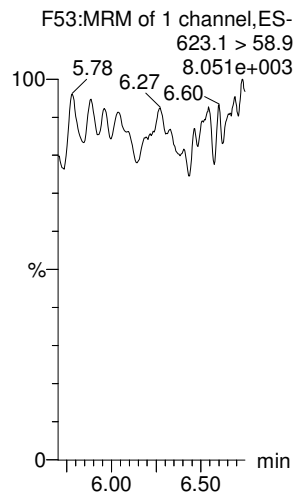
**13C3-PFHxS**



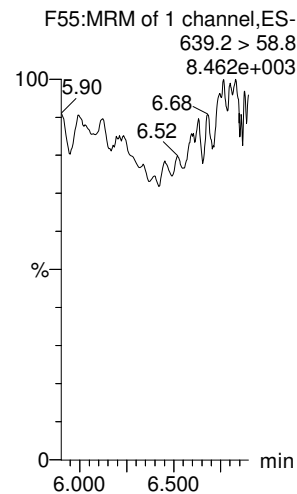
**13C2-PFHxDA**



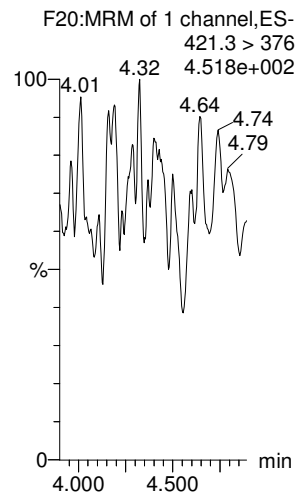
**d7-N-MeFOSE**



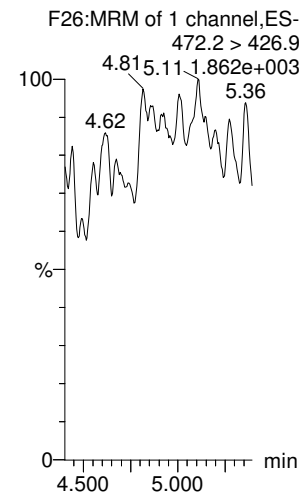
**d9-N-EtFOSE**



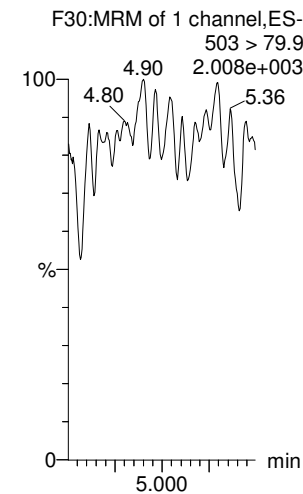
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



Dataset: Untitled

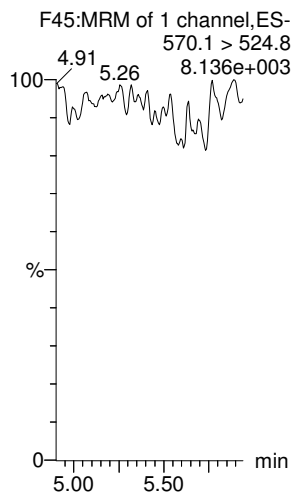
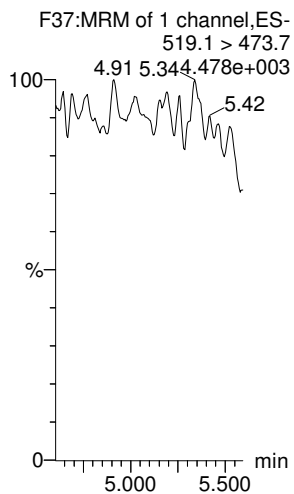
Last Altered: Tuesday, December 26, 2017 11:57:48 Pacific Standard Time

Printed: Tuesday, December 26, 2017 11:58:20 Pacific Standard Time

Name: 171224M1\_12, Date: 24-Dec-2017, Time: 14:28:35, ID: IPA, Description: IPA

13C6-PFDA

13C7-PFUdA



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 11:12:59 Pacific Standard Time

Printed: Wednesday, January 03, 2018 11:15:10 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44  
 Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

*AC*  
*1/3/18*  
*YFA*  
*01/03/2018*

**Compound name: PFBA**

Correlation coefficient:  $r = 0.999791$ ,  $r^2 = 0.999582$

Calibration curve:  $1.41407 * x + -0.110571$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	1.32	133.430	7679.443	0.217	0.2	-7.3	NO	1.000	NO	MM
2	2 180102M2_3	Standard	0.500	1.33	316.689	7379.304	0.536	0.5	-8.5	NO	1.000	NO	MM
3	3 180102M2_4	Standard	1.000	1.34	736.662	7688.878	1.198	0.9	-7.5	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	1.33	1599.927	7962.546	2.512	1.9	-7.3	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	1.33	4627.116	8693.651	6.653	4.8	-4.3	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	1.33	9158.581	7877.662	14.533	10.4	3.6	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	1.33	43935.418	7793.737	70.466	49.9	-0.2	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	1.33	90157.727	7957.421	141.625	100.2	0.2	NO	1.000	NO	bb

**Compound name: PFPeA**

Correlation coefficient:  $r = 0.999811$ ,  $r^2 = 0.999622$

Calibration curve:  $1.24942 * x + -0.05615$

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 180102M2_2	Standard	0.250	2.29	195.129	8771.149	0.278	0.3	7.0	NO	1.000	NO	MM
2	2 180102M2_3	Standard	0.500	2.29	418.951	8708.200	0.601	0.5	5.3	NO	1.000	NO	bb
3	3 180102M2_4	Standard	1.000	2.29	856.387	9069.425	1.180	1.0	-1.0	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	2.29	1652.619	9109.592	2.268	1.9	-7.0	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	2.30	4810.782	10001.896	6.012	4.9	-2.9	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	2.30	8845.332	9179.234	12.045	9.7	-3.1	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	2.30	45689.668	8932.026	63.941	51.2	2.4	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	2.30	89158.703	8983.092	124.065	99.3	-0.7	NO	1.000	NO	bb

Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time  
 Printed: Wednesday, January 03, 2018 10:42:48 Pacific Standard Time

**Compound name: PFBS**

Correlation coefficient:  $r = 0.999631$ ,  $r^2 = 0.999262$

Calibration curve:  $2.21075 * x + -0.178043$

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 180102M2_2	Standard	0.250	2.58	45.008	1181.301	0.476	0.3	18.4	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	2.57	85.371	1141.135	0.935	0.5	0.7	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	2.58	181.124	1152.078	1.965	1.0	-3.1	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	2.58	360.275	1269.738	3.547	1.7	-15.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	2.58	1095.079	1301.825	10.515	4.8	-3.3	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	2.58	2190.513	1233.457	22.199	10.1	1.2	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	2.58	10565.378	1163.406	113.518	51.4	2.9	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	2.58	20015.322	1145.117	218.486	98.9	-1.1	NO	0.999	NO	bb

**Compound name: PFHxA**

Correlation coefficient:  $r = 0.999826$ ,  $r^2 = 0.999652$

Calibration curve:  $1.87024 * x + -0.00601342$

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 180102M2_2	Standard	0.250	3.07	277.833	2786.930	0.498	0.3	7.9	NO	1.000	NO	bb
2	2 180102M2_3	Standard	0.500	3.07	518.870	2774.891	0.935	0.5	0.6	NO	1.000	NO	bb
3	3 180102M2_4	Standard	1.000	3.07	1015.502	2891.223	1.756	0.9	-5.8	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	3.07	1912.217	2818.971	3.392	1.8	-9.2	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	3.07	6170.946	3243.789	9.512	5.1	1.8	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	3.07	10937.149	2801.342	19.521	10.4	4.4	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	3.07	50017.852	2645.966	94.517	50.5	1.1	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	3.07	108583.602	2927.999	185.423	99.1	-0.9	NO	1.000	NO	bb



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time  
 Printed: Wednesday, January 03, 2018 10:42:48 Pacific Standard Time

**Compound name: PFHpA**

Correlation coefficient:  $r = 0.999512$ ,  $r^2 = 0.999024$

Calibration curve:  $1.60481 * x + -0.093655$

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 180102M2_2	Standard	0.250	3.69	187.645	7535.956	0.311	0.3	0.9	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	3.69	339.072	6210.619	0.682	0.5	-3.3	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	3.68	816.133	7248.519	1.407	0.9	-6.5	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	3.68	1862.432	7337.285	3.173	2.0	1.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	3.69	5258.148	8242.492	7.974	5.0	0.5	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	3.69	10093.437	7242.242	17.421	10.9	9.1	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	3.69	44724.414	7227.423	77.352	48.3	-3.5	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	3.69	88920.313	6872.139	161.741	100.8	0.8	NO	0.999	NO	bb

**Compound name: L-PFHxS**

Correlation coefficient:  $r = 0.999178$ ,  $r^2 = 0.998357$

Calibration curve:  $1.9979 * x + -0.0316488$

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 180102M2_2	Standard	0.250	3.83	35.877	876.585	0.512	0.3	8.8	NO	0.998	NO	MM
2	2 180102M2_3	Standard	0.500	3.83	59.717	975.615	0.765	0.4	-20.2	NO	0.998	NO	MM
3	3 180102M2_4	Standard	1.000	3.84	151.775	980.415	1.935	1.0	-1.6	NO	0.998	NO	MM
4	4 180102M2_5	Standard	2.000	3.84	324.389	935.565	4.334	2.2	9.3	NO	0.998	NO	MM
5	5 180102M2_6	Standard	5.000	3.84	904.931	1187.076	9.529	4.8	-4.3	NO	0.998	NO	MM
6	6 180102M2_7	Standard	10.000	3.84	1826.527	1076.210	21.215	10.6	6.3	NO	0.998	NO	MM
7	7 180102M2_8	Standard	50.000	3.84	8250.046	988.496	104.326	52.2	4.5	NO	0.998	NO	MM
8	8 180102M2_9	Standard	100.000	3.84	15698.343	1010.053	194.276	97.3	-2.7	NO	0.998	NO	MM

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**Compound name: 6:2 FTS**

Coefficient of Determination:  $R^2 = 0.999391$   
 Calibration curve:  $0.000388154 * x^2 + 0.304544 * x + -0.033568$   
 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 180102M2_2	Standard	0.250	4.16	46.499	10253.480	0.057	0.3	18.5	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	4.16	85.017	11050.722	0.096	0.4	-14.8	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.15	248.949	11297.149	0.275	1.0	1.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.15	475.032	11350.530	0.523	1.8	-8.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.16	1402.688	11281.333	1.554	5.2	3.6	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.15	2855.455	11669.804	3.059	10.0	0.3	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.15	13225.257	10230.492	16.159	50.0	-0.0	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.15	25190.375	10901.502	28.884	85.6	-14.4	NO	0.999	NO	bbX

**Compound name: L-PFOA**

Coefficient of Determination:  $R^2 = 0.999271$   
 Calibration curve:  $-0.000103873 * x^2 + 1.25172 * x + 0.219686$   
 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 180102M2_2	Standard	0.250	4.21	504.171	10253.480	0.615	0.3	26.2	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	4.21	731.494	11050.722	0.827	0.5	-2.9	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.21	1202.276	11297.149	1.330	0.9	-11.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.21	2295.707	11350.530	2.528	1.8	-7.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.21	5753.975	11281.333	6.376	4.9	-1.6	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.21	11303.767	11669.804	12.108	9.5	-5.0	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.21	52693.516	10230.492	64.383	51.5	3.0	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.21	107713.055	10901.502	123.507	99.3	-0.7	NO	0.999	NO	bb

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**Compound name: PFHpS**

Coefficient of Determination:  $R^2 = 0.997002$

Calibration curve:  $-0.000453199 * x^2 + 0.312955 * x + -0.0835439$

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 180102M2_2	Standard	0.250	4.32	60.548	10253.480	0.074	0.5	101.3	NO	0.997	NO	bbX
2	2 180102M2_3	Standard	0.500	4.32	97.532	11050.722	0.110	0.6	24.0	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	4.32	207.092	11297.149	0.229	1.0	0.1	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	4.32	437.136	11350.530	0.481	1.8	-9.5	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	4.32	1207.311	11281.333	1.338	4.6	-8.6	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	4.32	2494.892	11669.804	2.672	8.9	-10.8	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	4.32	12533.765	10230.492	15.314	53.3	6.6	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	4.32	22918.361	10901.502	26.279	98.2	-1.8	NO	0.997	NO	bb

**Compound name: PFNA**

Coefficient of Determination:  $R^2 = 0.998828$

Calibration curve:  $-0.0026515 * x^2 + 1.47025 * x + -0.0610636$

Response type: Internal Std ( Ref 39 ), 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 180102M2_2	Standard	0.250	4.65	169.052	8691.937	0.243	0.2	-17.2	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	4.65	432.718	7683.161	0.704	0.5	4.2	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.65	901.739	7595.522	1.484	1.1	5.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.65	1783.958	9038.605	2.467	1.7	-13.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.65	6637.959	10988.831	7.551	5.2	4.5	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.65	9878.730	8553.649	14.436	10.0	0.4	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.65	52029.359	9737.121	66.793	50.0	-0.1	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.65	108784.531	8681.578	156.631	143.9	43.9	NO	0.999	NO	bbX

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**Compound name: PFOSA**

Correlation coefficient:  $r = 0.999523$ ,  $r^2 = 0.999047$

Calibration curve:  $1.3556 * x + -0.0180652$

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 180102M2_2	Standard	0.250	4.71	102.892	3084.802	0.417	0.3	28.4	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	4.71	143.012	2870.135	0.623	0.5	-5.4	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.71	260.685	3118.891	1.045	0.8	-21.6	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.71	637.889	3245.851	2.457	1.8	-8.7	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.71	1699.651	3144.589	6.756	5.0	-0.1	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.71	3065.491	2639.988	14.515	10.7	7.2	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.71	15233.161	2775.264	68.611	50.6	1.3	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.71	34198.551	3185.676	134.189	99.0	-1.0	NO	0.999	NO	bb

**Compound name: L-PFOS**

Coefficient of Determination:  $R^2 = 0.999016$

Calibration curve:  $0.00240525 * x^2 + 0.993312 * x + 0.0576985$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.73	45.392	1962.993	0.289	0.2	-6.9	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	4.73	115.118	2365.519	0.608	0.6	10.7	NO	0.999	NO	MM
3	3 180102M2_4	Standard	1.000	4.73	220.888	2404.826	1.148	1.1	9.5	NO	0.999	NO	MM
4	4 180102M2_5	Standard	2.000	4.73	449.043	2701.989	2.077	2.0	1.2	NO	0.999	NO	MM
5	5 180102M2_6	Standard	5.000	4.73	1249.128	2982.788	5.235	5.1	3.0	NO	0.999	NO	MM
6	6 180102M2_7	Standard	10.000	4.73	2587.916	2905.263	11.135	10.9	8.7	NO	0.999	NO	MM
7	7 180102M2_8	Standard	50.000	4.73	10285.645	2402.318	53.519	48.2	-3.6	NO	0.999	NO	MM
8	8 180102M2_9	Standard	100.000	4.73	27177.135	2729.716	124.450	100.7	0.7	NO	0.999	NO	MM

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**Compound name: PFDA**

Coefficient of Determination: R<sup>2</sup> = 0.996665

Calibration curve: -0.00380311 \* x<sup>2</sup> + 1.68255 \* x + -0.179654

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 180102M2_2	Standard	0.250	5.02	188.776	9409.795	0.251	0.3	2.4	NO	0.997	NO	bb
2	2 180102M2_3	Standard	0.500	5.02	434.026	6177.648	0.878	0.6	25.9	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	5.02	913.680	7943.417	1.438	1.0	-3.7	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	5.02	1855.236	8068.738	2.874	1.8	-8.9	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	5.02	6252.152	10867.858	7.191	4.4	-11.5	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	5.03	11102.589	9396.339	14.770	9.1	-9.3	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	5.02	50007.871	7894.606	79.180	53.7	7.4	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	5.02	101693.664	9940.610	127.877	97.7	-2.3	NO	0.997	NO	bb

**Compound name: 8:2 FTS**

Coefficient of Determination: R<sup>2</sup> = 0.999379

Calibration curve: 0.00321238 \* x<sup>2</sup> + 1.21 \* x + 0.026507

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.99	78.019	1962.993	0.497	0.4	55.3	NO	0.999	NO	bbX
2	2 180102M2_3	Standard	0.500	4.99	121.430	2365.519	0.642	0.5	1.5	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.99	237.716	2404.826	1.236	1.0	-0.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.99	530.424	2701.989	2.454	2.0	-0.2	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.99	1578.239	2982.788	6.614	5.4	7.4	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.99	2773.601	2905.263	11.934	9.6	-4.0	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.99	13186.767	2402.318	68.615	50.0	0.1	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.99	26248.576	2729.716	120.198	81.6	-18.4	NO	0.999	NO	bbX

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**Compound name: N-MeFOSAA**

Coefficient of Determination:  $R^2 = 0.995661$

Calibration curve:  $-0.00295106 * x^2 + 2.02309 * x + -0.48271$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.18	146.003	4037.611	0.452	0.5	84.9	NO	0.996	NO	bbX
2	2 180102M2_3	Standard	0.500	5.18	165.121	4428.044	0.466	0.5	-6.1	NO	0.996	NO	bb
3	3 180102M2_4	Standard	1.000	5.18	503.131	4239.640	1.483	1.0	-2.7	NO	0.996	NO	bb
4	4 180102M2_5	Standard	2.000	5.18	896.785	4568.624	2.454	1.5	-27.3	NO	0.996	NO	bb
5	5 180102M2_6	Standard	5.000	5.18	3131.262	4889.789	8.005	4.2	-15.6	NO	0.996	NO	bb
6	6 180102M2_7	Standard	10.000	5.18	6267.033	4051.958	19.333	9.9	-0.6	NO	0.996	NO	bb
7	7 180102M2_8	Standard	50.000	5.18	31284.895	3956.298	98.845	53.2	6.5	NO	0.996	NO	bb
8	8 180102M2_9	Standard	100.000	5.18	60237.043	4438.268	169.652	98.1	-1.9	NO	0.996	NO	bb

**Compound name: N-EtFOSAA**

Coefficient of Determination:  $R^2 = 0.997767$

Calibration curve:  $9.13857e-005 * x^2 + 1.33013 * x + -0.086728$

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 180102M2_2	Standard	0.250	5.33	121.493	4884.998	0.311	0.3	19.6	NO	0.998	NO	bb
2	2 180102M2_3	Standard	0.500	5.33	193.938	4813.042	0.504	0.4	-11.2	NO	0.998	NO	bb
3	3 180102M2_4	Standard	1.000	5.33	525.972	5595.485	1.175	0.9	-5.1	NO	0.998	NO	bb
4	4 180102M2_5	Standard	2.000	5.33	737.799	5133.932	1.796	1.4	-29.2	NO	0.998	NO	bb
5	5 180102M2_6	Standard	5.000	5.33	2792.286	5962.557	5.854	4.5	-10.7	NO	0.998	NO	bb
6	6 180102M2_7	Standard	10.000	5.33	5926.133	5089.167	14.556	11.0	10.0	NO	0.998	NO	bb
7	7 180102M2_8	Standard	50.000	5.33	26036.283	4837.116	67.283	50.5	0.9	NO	0.998	NO	bb
8	8 180102M2_9	Standard	100.000	5.33	49957.531	4679.708	133.442	99.7	-0.3	NO	0.998	NO	bb

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**Compound name: PFUDa**

Coefficient of Determination:  $R^2 = 0.999792$

Calibration curve:  $0.00151861 * x^2 + 1.26795 * x + -0.0897658$

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 180102M2_2	Standard	0.250	5.35	281.464	11795.863	0.298	0.3	22.4	NO	1.000	NO	bb
2	2 180102M2_3	Standard	0.500	5.35	377.855	9383.154	0.503	0.5	-6.5	NO	1.000	NO	bb
3	3 180102M2_4	Standard	1.000	5.35	978.323	11350.477	1.077	0.9	-8.0	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	5.35	1838.890	10189.292	2.256	1.8	-7.7	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	5.35	5316.464	10613.905	6.261	5.0	-0.4	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	5.35	10743.087	10589.070	12.682	10.0	-0.5	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	5.35	54328.406	10017.716	67.790	50.5	1.0	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	5.35	90727.727	8011.392	141.560	99.8	-0.2	NO	1.000	NO	bb

**Compound name: PFDS**

Coefficient of Determination:  $R^2 = 0.999404$

Calibration curve:  $0.000619715 * x^2 + 0.348908 * x + -0.0321756$

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 180102M2_2	Standard	0.250	5.40	54.250	11795.863	0.057	0.3	2.7	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	5.39	134.482	9383.154	0.179	0.6	21.0	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	5.40	209.579	11350.477	0.231	0.8	-24.7	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	5.40	506.416	10189.292	0.621	1.9	-6.7	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	5.40	1580.514	10613.905	1.861	5.4	7.5	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	5.40	2996.446	10589.070	3.537	10.1	0.5	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	5.39	15115.732	10017.716	18.861	49.8	-0.5	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	5.40	26341.176	8011.392	41.100	100.1	0.1	NO	0.999	NO	bb

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**Compound name: PFDoA**

Coefficient of Determination:  $R^2 = 0.998777$

Calibration curve:  $-0.00160285 * x^2 + 2.48629 * x + -0.22897$

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 180102M2_2	Standard	0.250	5.63	338.603	7412.730	0.571	0.3	28.7	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	5.63	534.028	6530.110	1.022	0.5	0.7	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	5.63	925.550	5725.445	2.021	0.9	-9.5	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	5.63	2155.063	7762.978	3.470	1.5	-25.5	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	5.63	6230.569	6324.164	12.315	5.1	1.2	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	5.63	12466.664	6115.064	25.484	10.4	4.1	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	5.63	55516.375	5756.736	120.547	50.2	0.4	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	5.63	109663.125	5907.151	232.056	99.9	-0.1	NO	0.999	NO	bb

**Compound name: N-MeFOSA**

Correlation coefficient:  $r = 0.999762$ ,  $r^2 = 0.999523$

Calibration curve:  $1.1239 * x + -0.108539$

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 180102M2_2	Standard	1.250	5.74	132.232	16043.687	1.236	1.2	-4.3	NO	1.000	NO	bb
2	2 180102M2_3	Standard	2.500	5.74	291.559	15513.691	2.819	2.6	4.2	NO	1.000	NO	bb
3	3 180102M2_4	Standard	5.000	5.74	525.825	15964.676	4.941	4.5	-10.2	NO	1.000	NO	bb
4	4 180102M2_5	Standard	10.000	5.74	1119.642	15841.742	10.602	9.5	-4.7	NO	1.000	NO	bb
5	5 180102M2_6	Standard	25.000	5.74	3347.026	17837.416	28.146	25.1	0.6	NO	1.000	NO	bb
6	6 180102M2_7	Standard	50.000	5.74	6455.166	16188.742	59.812	53.3	6.6	NO	1.000	NO	bb
7	7 180102M2_8	Standard	250.000	5.74	30288.393	16006.967	283.830	252.6	1.1	NO	1.000	NO	bb
8	8 180102M2_9	Standard	500.000	5.74	57847.578	15605.370	556.035	494.8	-1.0	NO	1.000	NO	bb



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**Compound name: PFTrDA**

Correlation coefficient:  $r = 0.999249$ ,  $r^2 = 0.998498$

Calibration curve:  $5.6605 * x + -0.467093$

Response type: Internal Std ( Ref 49 ), 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 180102M2_2	Standard	0.250	5.89	277.814	2910.322	1.193	0.3	17.3	NO	0.998	NO	bb
2	2 180102M2_3	Standard	0.500	5.88	411.250	2442.518	2.105	0.5	-9.1	NO	0.998	NO	bb
3	3 180102M2_4	Standard	1.000	5.88	1163.026	2346.519	6.195	1.2	17.7	NO	0.998	NO	bb
4	4 180102M2_5	Standard	2.000	5.89	1925.857	2926.466	8.226	1.5	-23.2	NO	0.998	NO	bb
5	5 180102M2_6	Standard	5.000	5.89	5931.961	2891.711	25.642	4.6	-7.7	NO	0.998	NO	bb
6	6 180102M2_7	Standard	10.000	5.88	13812.504	2975.646	58.023	10.3	3.3	NO	0.998	NO	bb
7	7 180102M2_8	Standard	50.000	5.88	51607.465	2221.127	290.435	51.4	2.8	NO	0.998	NO	bb
8	8 180102M2_9	Standard	100.000	5.88	110358.539	2464.889	559.653	99.0	-1.0	NO	0.998	NO	bb

**Compound name: PFTeDA**

Coefficient of Determination:  $R^2 = 0.997476$

Calibration curve:  $-0.00874416 * x^2 + 3.37255 * x + -0.193713$

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 180102M2_2	Standard	0.250	6.11	155.613	2910.322	0.668	0.3	2.3	NO	0.997	NO	bb
2	2 180102M2_3	Standard	0.500	6.10	346.768	2442.518	1.775	0.6	16.9	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	6.10	603.105	2346.519	3.213	1.0	1.3	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	6.10	1419.695	2926.466	6.064	1.9	-6.8	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	6.11	3444.145	2891.711	14.888	4.5	-9.5	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	6.10	7116.754	2975.646	29.896	9.1	-8.6	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	6.10	27490.512	2221.127	154.710	53.3	6.6	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	6.10	48491.793	2464.889	245.913	97.7	-2.3	NO	0.997	NO	bb

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**Compound name: N-EtFOSA**

Coefficient of Determination:  $R^2 = 0.999640$

Calibration curve:  $-2.4844e-005 * x^2 + 1.02224 * x + -0.049377$

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 180102M2_2	Standard	1.250	6.15	212.599	23250.135	1.372	1.4	11.2	NO	1.000	NO	bb
2	2 180102M2_3	Standard	2.500	6.15	332.429	22543.910	2.212	2.2	-11.5	NO	1.000	NO	bb
3	3 180102M2_4	Standard	5.000	6.15	751.350	22784.709	4.946	4.9	-2.2	NO	1.000	NO	bb
4	4 180102M2_5	Standard	10.000	6.15	1555.895	24182.727	9.651	9.5	-5.1	NO	1.000	NO	bb
5	5 180102M2_6	Standard	25.000	6.15	4660.037	25951.254	26.935	26.4	5.7	NO	1.000	NO	bb
6	6 180102M2_7	Standard	50.000	6.15	8255.741	23514.104	52.665	51.6	3.3	NO	1.000	NO	bb
7	7 180102M2_8	Standard	250.000	6.15	38230.813	22960.252	249.763	245.8	-1.7	NO	1.000	NO	bb
8	8 180102M2_9	Standard	500.000	6.15	76544.398	22658.357	506.730	501.9	0.4	NO	1.000	NO	bb

**Compound name: PFHxDA**

Coefficient of Determination:  $R^2 = 0.998895$

Calibration curve:  $-0.00112888 * x^2 + 1.06189 * x + 0.0169353$

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 180102M2_2	Standard	0.250	6.44	122.613	2287.571	0.268	0.2	-5.4	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	6.44	238.979	1923.725	0.621	0.6	13.9	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	6.44	380.080	2087.165	0.911	0.8	-15.8	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	6.44	838.696	1935.460	2.167	2.0	1.4	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	6.44	2246.317	2134.108	5.263	5.0	-0.7	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	6.44	4191.203	1832.003	11.439	10.9	8.8	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	6.44	18382.549	1881.102	48.861	48.5	-3.0	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	6.44	34930.980	1828.044	95.542	100.7	0.7	NO	0.999	NO	bb

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**Compound name: PFODA**

Coefficient of Determination: R<sup>2</sup> = 0.997481

Calibration curve: 0.00107929 \* x<sup>2</sup> + 1.12186 \* x + -0.011842

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 180102M2_2	Standard	0.250	6.67	124.985	2287.571	0.273	0.3	1.6	NO	0.997	NO	bb
2	2 180102M2_3	Standard	0.500	6.67	199.113	1923.725	0.518	0.5	-5.7	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	6.67	349.216	2087.165	0.837	0.8	-24.4	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	6.67	889.898	1935.460	2.299	2.1	2.8	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	6.67	2784.832	2134.108	6.525	5.8	15.9	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	6.67	4554.946	1832.003	12.432	11.0	9.8	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	6.67	20892.854	1881.102	55.534	47.4	-5.3	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	6.67	45494.445	1828.044	124.435	101.1	1.1	NO	0.997	NO	bb

**Compound name: N-MeFOSE**

Coefficient of Determination: R<sup>2</sup> = 0.998506

Calibration curve: 0.000105341 \* x<sup>2</sup> + 1.17709 \* x + -0.269877

Response type: Internal Std ( Ref 52 ), 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 180102M2_2	Standard	1.250	6.32	194.009	18647.293	1.561	1.6	24.4	NO	0.999	NO	bb
2	2 180102M2_3	Standard	2.500	6.32	402.526	23599.381	2.558	2.4	-3.9	NO	0.999	NO	bb
3	3 180102M2_4	Standard	5.000	6.32	789.621	21770.959	5.440	4.8	-3.0	NO	0.999	NO	bb
4	4 180102M2_5	Standard	10.000	6.32	1642.807	22482.695	10.960	9.5	-4.7	NO	0.999	NO	bb
5	5 180102M2_6	Standard	25.000	6.32	4507.014	25207.309	26.820	23.0	-8.1	NO	0.999	NO	bb
6	6 180102M2_7	Standard	50.000	6.32	8806.382	24505.541	53.904	45.8	-8.3	NO	0.999	NO	bb
7	7 180102M2_8	Standard	250.000	6.32	47261.012	22505.619	314.995	261.7	4.7	NO	0.999	NO	bb
8	8 180102M2_9	Standard	500.000	6.32	83348.844	20561.994	608.031	494.9	-1.0	NO	0.999	NO	bb

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**Compound name: N-EtFOSE**

Correlation coefficient:  $r = 0.998320$ ,  $r^2 = 0.996643$

Calibration curve:  $1.24163 * x + 0.370762$

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 180102M2_2	Standard	1.250	6.47	223.713	23019.424	1.458	0.9	-30.0	NO	0.997	NO	MM
2	2 180102M2_3	Standard	2.500	6.46	436.147	20567.943	3.181	2.3	-9.5	NO	0.997	NO	bb
3	3 180102M2_4	Standard	5.000	6.47	864.033	17832.957	7.268	5.6	11.1	NO	0.997	NO	bb
4	4 180102M2_5	Standard	10.000	6.46	1891.609	19875.211	14.276	11.2	12.0	NO	0.997	NO	bb
5	5 180102M2_6	Standard	25.000	6.47	5346.759	25813.174	31.070	24.7	-1.1	NO	0.997	NO	bb
6	6 180102M2_7	Standard	50.000	6.46	11386.544	22655.969	75.388	60.4	20.8	NO	0.997	NO	bb
7	7 180102M2_8	Standard	250.000	6.46	45743.367	22587.609	303.773	244.4	-2.3	NO	0.997	NO	bb
8	8 180102M2_9	Standard	500.000	6.46	89916.203	21959.977	614.182	494.4	-1.1	NO	0.997	NO	bb

**Compound name: 13C3-PFBA**

Response Factor: 0.774545

RRF SD: 0.0140973, Relative SD: 1.82007

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 180102M2_2	Standard	12.500	1.32	7679.443	9795.079	9.800	12.7	1.2	NO		NO	bb
2	2 180102M2_3	Standard	12.500	1.33	7379.304	9353.119	9.862	12.7	1.9	NO		NO	bb
3	3 180102M2_4	Standard	12.500	1.33	7688.878	9888.167	9.720	12.5	0.4	NO		NO	bb
4	4 180102M2_5	Standard	12.500	1.33	7962.546	10208.585	9.750	12.6	0.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	1.33	8693.651	11545.845	9.412	12.2	-2.8	NO		NO	bb
6	6 180102M2_7	Standard	12.500	1.33	7877.662	10184.753	9.668	12.5	-0.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	1.33	7793.737	9914.055	9.827	12.7	1.5	NO		NO	bb
8	8 180102M2_9	Standard	12.500	1.33	7957.421	10564.219	9.416	12.2	-2.8	NO		NO	bb

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**Compound name: 13C3-PFPeA**

Response Factor: 0.805228  
 RRF SD: 0.0287658, Relative SD: 3.57238  
 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 180102M2_2	Standard	12.500	2.29	8771.149	11257.119	9.740	12.1	-3.2	NO		NO	bb
2	2 180102M2_3	Standard	12.500	2.30	8708.200	11155.473	9.758	12.1	-3.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	2.30	9069.425	10715.271	10.580	13.1	5.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	2.29	9109.592	10941.471	10.407	12.9	3.4	NO		NO	bb
5	5 180102M2_6	Standard	12.500	2.30	10001.896	12852.977	9.727	12.1	-3.4	NO		NO	bb
6	6 180102M2_7	Standard	12.500	2.29	9179.234	11296.521	10.157	12.6	0.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	2.30	8932.026	10743.026	10.393	12.9	3.3	NO		NO	bb
8	8 180102M2_9	Standard	12.500	2.30	8983.092	11503.685	9.761	12.1	-3.0	NO		NO	bb

**Compound name: 13C3-PFBS**

Response Factor: 0.106139  
 RRF SD: 0.00530931, Relative SD: 5.00223  
 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 180102M2_2	Standard	12.500	2.58	1181.301	11257.119	1.312	12.4	-1.1	NO		NO	bb
2	2 180102M2_3	Standard	12.500	2.58	1141.135	11155.473	1.279	12.0	-3.6	NO		NO	bb
3	3 180102M2_4	Standard	12.500	2.58	1152.078	10715.271	1.344	12.7	1.3	NO		NO	bb
4	4 180102M2_5	Standard	12.500	2.58	1269.738	10941.471	1.451	13.7	9.3	NO		NO	bb
5	5 180102M2_6	Standard	12.500	2.58	1301.825	12852.977	1.266	11.9	-4.6	NO		NO	bb
6	6 180102M2_7	Standard	12.500	2.58	1233.457	11296.521	1.365	12.9	2.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	2.58	1163.406	10743.026	1.354	12.8	2.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	2.58	1145.117	11503.685	1.244	11.7	-6.2	NO		NO	bb

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**Compound name: 13C2-PFHxA**

Response Factor: 0.632801

RRF SD: 0.0194759, Relative SD: 3.07773

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 180102M2_2	Standard	5.000	3.07	2786.930	11257.119	3.095	4.9	-2.2	NO		NO	bb
2	2 180102M2_3	Standard	5.000	3.07	2774.891	11155.473	3.109	4.9	-1.7	NO		NO	bb
3	3 180102M2_4	Standard	5.000	3.07	2891.223	10715.271	3.373	5.3	6.6	NO		NO	bb
4	4 180102M2_5	Standard	5.000	3.07	2818.971	10941.471	3.221	5.1	1.8	NO		NO	bb
5	5 180102M2_6	Standard	5.000	3.07	3243.789	12852.977	3.155	5.0	-0.3	NO		NO	bb
6	6 180102M2_7	Standard	5.000	3.07	2801.342	11296.521	3.100	4.9	-2.0	NO		NO	bb
7	7 180102M2_8	Standard	5.000	3.07	2645.966	10743.026	3.079	4.9	-2.7	NO		NO	bb
8	8 180102M2_9	Standard	5.000	3.07	2927.999	11503.685	3.182	5.0	0.6	NO		NO	bb

**Compound name: 13C4-PFHpA**

Response Factor: 0.640721

RRF SD: 0.0430173, Relative SD: 6.71389

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 180102M2_2	Standard	12.500	3.68	7535.956	11257.119	8.368	13.1	4.5	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.68	6210.619	11155.473	6.959	10.9	-13.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.68	7248.519	10715.271	8.456	13.2	5.6	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.68	7337.285	10941.471	8.382	13.1	4.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.69	8242.492	12852.977	8.016	12.5	0.1	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.68	7242.242	11296.521	8.014	12.5	0.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.68	7227.423	10743.026	8.409	13.1	5.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.69	6872.139	11503.685	7.467	11.7	-6.8	NO		NO	bb

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**Compound name: 18O2-PFHxS**

Response Factor: 0.334101

RRF SD: 0.0276572, Relative SD: 8.2781

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 180102M2_2	Standard	12.500	3.84	876.585	2657.506	4.123	12.3	-1.3	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.84	975.615	2624.274	4.647	13.9	11.3	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.84	980.415	3029.475	4.045	12.1	-3.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.84	935.565	3337.803	3.504	10.5	-16.1	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.84	1187.076	3400.203	4.364	13.1	4.5	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.84	1076.210	3109.047	4.327	13.0	3.6	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.84	988.496	3092.462	3.996	12.0	-4.3	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.84	1010.053	2866.612	4.404	13.2	5.5	NO		NO	bb

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

Response Factor: 0.228249

RRF SD: 0.0195949, Relative SD: 8.58486

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 180102M2_2	Standard	12.500	4.15	2365.684	11300.266	2.617	11.5	-8.3	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.15	2497.060	11166.586	2.795	12.2	-2.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.15	2614.704	13026.614	2.509	11.0	-12.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.15	2592.692	10689.178	3.032	13.3	6.3	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.15	2827.852	12345.387	2.863	12.5	0.4	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.15	2672.582	11438.119	2.921	12.8	2.4	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.15	2972.808	11487.354	3.235	14.2	13.4	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.15	3727.913	10658.433	4.372	19.2	53.2	NO		NO	bbX

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**Compound name: 13C2-PFOA**

Response Factor: 0.959194

RRF SD: 0.0728526, Relative SD: 7.59519

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 180102M2_2	Standard	12.500	4.21	10253.480	11300.266	11.342	11.8	-5.4	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.21	11050.722	11166.586	12.370	12.9	3.2	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.21	11297.149	13026.614	10.840	11.3	-9.6	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.21	11350.530	10689.178	13.273	13.8	10.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.21	11281.333	12345.387	11.423	11.9	-4.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.21	11669.804	11438.119	12.753	13.3	6.4	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.21	10230.492	11487.354	11.132	11.6	-7.2	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.21	10901.502	10658.433	12.785	13.3	6.6	NO		NO	bb

**Compound name: 13C5-PFNA**

Response Factor: 0.830371

RRF SD: 0.0908104, Relative SD: 10.9361

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 180102M2_2	Standard	12.500	4.65	8691.937	11569.109	9.391	11.3	-9.5	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.65	7683.161	10709.896	8.967	10.8	-13.6	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.65	7595.522	9521.270	9.972	12.0	-3.9	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.65	9038.605	11166.313	10.118	12.2	-2.5	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.65	10988.831	10782.388	12.739	15.3	22.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.65	8553.649	10069.055	10.619	12.8	2.3	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.65	9737.121	11682.408	10.419	12.5	0.4	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.65	8681.578	10037.111	10.812	13.0	4.2	NO		NO	bb



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**Compound name: 13C8-PFOSA**

Response Factor: 0.262346

RRF SD: 0.0411456, Relative SD: 15.6837

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 180102M2_2	Standard	12.500	4.71	3084.802	10469.664	3.683	14.0	12.3	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.71	2870.135	12880.041	2.785	10.6	-15.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.71	3118.891	12169.355	3.204	12.2	-2.3	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.71	3245.851	10135.316	4.003	15.3	22.1	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.71	3144.589	13274.537	2.961	11.3	-9.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.71	2639.988	12415.121	2.658	10.1	-18.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.70	2775.264	11378.685	3.049	11.6	-7.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.71	3185.676	10232.887	3.891	14.8	18.7	NO		NO	bb

**Compound name: 13C8-PFOS**

Response Factor: 0.880323

RRF SD: 0.0915711, Relative SD: 10.402

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 180102M2_2	Standard	12.500	4.73	1962.993	2791.994	8.788	10.0	-20.1	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.73	2365.519	2652.125	11.149	12.7	1.3	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.73	2404.826	2921.574	10.289	11.7	-6.5	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.73	2701.989	2824.538	11.958	13.6	8.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.73	2982.788	3429.124	10.873	12.4	-1.2	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.73	2905.263	2868.500	12.660	14.4	15.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.73	2402.318	2711.805	11.073	12.6	0.6	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.73	2729.716	3035.383	11.241	12.8	2.2	NO		NO	bb

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**Compound name: 13C2-PFDA**

Response Factor: 0.995216

RRF SD: 0.164321, Relative SD: 16.5111

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 180102M2_2	Standard	12.500	5.03	9409.795	9374.130	12.548	12.6	0.9	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.02	6177.648	8188.296	9.431	9.5	-24.2	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.02	7943.417	8646.034	11.484	11.5	-7.7	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.02	8068.738	8933.577	11.290	11.3	-9.2	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.02	10867.858	9861.516	13.776	13.8	10.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.03	9396.339	10360.227	11.337	11.4	-8.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.02	7894.606	7338.946	13.446	13.5	8.1	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.02	9940.610	7665.349	16.210	16.3	30.3	NO		NO	bb

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

Response Factor: 0.142215

RRF SD: 0.0240969, Relative SD: 16.944

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 180102M2_2	Standard	12.500	4.99	1488.020	11257.119	1.652	11.6	-7.1	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.99	1363.151	11155.473	1.527	10.7	-14.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.99	1616.851	10715.271	1.886	13.3	6.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.99	1578.551	10941.471	1.803	12.7	1.4	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.99	1470.059	12852.977	1.430	10.1	-19.6	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.99	1381.755	11296.521	1.529	10.8	-14.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.99	1949.049	10743.026	2.268	15.9	27.6	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.99	1956.313	11503.685	2.126	14.9	19.6	NO		NO	bb

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

Response Factor: 0.375593

RRF SD: 0.0449379, Relative SD: 11.9645

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 180102M2_2	Standard	12.500	5.17	4037.611	10469.664	4.821	12.8	2.7	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.17	4428.044	12880.041	4.297	11.4	-8.5	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.17	4239.640	12169.355	4.355	11.6	-7.2	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.17	4568.624	10135.316	5.635	15.0	20.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.17	4889.789	13274.537	4.604	12.3	-1.9	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.17	4051.958	12415.121	4.080	10.9	-13.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.17	3956.298	11378.685	4.346	11.6	-7.4	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.17	4438.268	10232.887	5.422	14.4	15.5	NO		NO	bb

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

Response Factor: 0.443515

RRF SD: 0.0402431, Relative SD: 9.07368

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 180102M2_2	Standard	12.500	5.33	4884.998	10469.664	5.832	13.2	5.2	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.33	4813.042	12880.041	4.671	10.5	-15.7	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.33	5595.485	12169.355	5.748	13.0	3.7	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.33	5133.932	10135.316	6.332	14.3	14.2	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.33	5962.557	13274.537	5.615	12.7	1.3	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.33	5089.167	12415.121	5.124	11.6	-7.6	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.32	4837.116	11378.685	5.314	12.0	-4.2	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.33	4679.708	10232.887	5.717	12.9	3.1	NO		NO	bb

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**Compound name: 13C2-PFUdA**

Response Factor: 0.888624

RRF SD: 0.13001, Relative SD: 14.6304

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	180102M2_2	Standard	12.500	5.35	11795.863	10469.664	14.083	15.8	26.8	NO		NO	bb
2	180102M2_3	Standard	12.500	5.35	9383.154	12880.041	9.106	10.2	-18.0	NO		NO	bb
3	180102M2_4	Standard	12.500	5.35	11350.477	12169.355	11.659	13.1	5.0	NO		NO	bb
4	180102M2_5	Standard	12.500	5.35	10189.292	10135.316	12.567	14.1	13.1	NO		NO	bb
5	180102M2_6	Standard	12.500	5.35	10613.905	13274.537	9.995	11.2	-10.0	NO		NO	bb
6	180102M2_7	Standard	12.500	5.35	10589.070	12415.121	10.661	12.0	-4.0	NO		NO	bb
7	180102M2_8	Standard	12.500	5.35	10017.716	11378.685	11.005	12.4	-0.9	NO		NO	bb
8	180102M2_9	Standard	12.500	5.35	8011.392	10232.887	9.786	11.0	-11.9	NO		NO	bb

**Compound name: 13C2-PFDoA**

Response Factor: 0.542224

RRF SD: 0.104705, Relative SD: 19.3103

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	180102M2_2	Standard	12.500	5.63	7412.730	10469.664	8.850	16.3	30.6	NO		NO	bbX
2	180102M2_3	Standard	12.500	5.63	6530.110	12880.041	6.337	11.7	-6.5	NO		NO	bb
3	180102M2_4	Standard	12.500	5.63	5725.445	12169.355	5.881	10.8	-13.2	NO		NO	bb
4	180102M2_5	Standard	12.500	5.63	7762.978	10135.316	9.574	17.7	41.3	NO		NO	bb
5	180102M2_6	Standard	12.500	5.63	6324.164	13274.537	5.955	11.0	-12.1	NO		NO	bb
6	180102M2_7	Standard	12.500	5.63	6115.064	12415.121	6.157	11.4	-9.2	NO		NO	bb
7	180102M2_8	Standard	12.500	5.63	5756.736	11378.685	6.324	11.7	-6.7	NO		NO	bb
8	180102M2_9	Standard	12.500	5.63	5907.151	10232.887	7.216	13.3	6.5	NO		NO	bb

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

Response Factor: 0.116575

RRF SD: 0.0108269, Relative SD: 9.28746

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	180102M2_2	Standard	150.000	5.76	16043.687	10469.664	19.155	164.3	9.5	NO		NO	bb
2	180102M2_3	Standard	150.000	5.76	15513.691	12880.041	15.056	129.2	-13.9	NO		NO	bb
3	180102M2_4	Standard	150.000	5.76	15964.676	12169.355	16.398	140.7	-6.2	NO		NO	bb
4	180102M2_5	Standard	150.000	5.76	15841.742	10135.316	19.538	167.6	11.7	NO		NO	bb
5	180102M2_6	Standard	150.000	5.76	17837.416	13274.537	16.797	144.1	-3.9	NO		NO	bb
6	180102M2_7	Standard	150.000	5.76	16188.742	12415.121	16.299	139.8	-6.8	NO		NO	bb
7	180102M2_8	Standard	150.000	5.76	16006.967	11378.685	17.584	150.8	0.6	NO		NO	bb
8	180102M2_9	Standard	150.000	5.76	15605.370	10232.887	19.063	163.5	9.0	NO		NO	bb

**Compound name: 13C2-PFTeDA**

Response Factor: 0.230346

RRF SD: 0.0384216, Relative SD: 16.6799

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	180102M2_2	Standard	12.500	6.10	2910.322	10469.664	3.475	15.1	20.7	NO		NO	bb
2	180102M2_3	Standard	12.500	6.10	2442.518	12880.041	2.370	10.3	-17.7	NO		NO	bb
3	180102M2_4	Standard	12.500	6.10	2346.519	12169.355	2.410	10.5	-16.3	NO		NO	bb
4	180102M2_5	Standard	12.500	6.10	2926.466	10135.316	3.609	15.7	25.4	NO		NO	bb
5	180102M2_6	Standard	12.500	6.10	2891.711	13274.537	2.723	11.8	-5.4	NO		NO	bb
6	180102M2_7	Standard	12.500	6.10	2975.646	12415.121	2.996	13.0	4.1	NO		NO	bb
7	180102M2_8	Standard	12.500	6.10	2221.127	11378.685	2.440	10.6	-15.3	NO		NO	bb
8	180102M2_9	Standard	12.500	6.10	2464.889	10232.887	3.011	13.1	4.6	NO		NO	bb

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

Response Factor: 0.1699

RRF SD: 0.0179233, Relative SD: 10.5493

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 180102M2_2	Standard	150.000	6.17	23250.135	10469.664	27.759	163.4	8.9	NO		NO	bb
2	2 180102M2_3	Standard	150.000	6.16	22543.910	12880.041	21.879	128.8	-14.2	NO		NO	bb
3	3 180102M2_4	Standard	150.000	6.17	22784.709	12169.355	23.404	137.8	-8.2	NO		NO	bb
4	4 180102M2_5	Standard	150.000	6.17	24182.727	10135.316	29.825	175.5	17.0	NO		NO	bb
5	5 180102M2_6	Standard	150.000	6.17	25951.254	13274.537	24.437	143.8	-4.1	NO		NO	bb
6	6 180102M2_7	Standard	150.000	6.17	23514.104	12415.121	23.675	139.3	-7.1	NO		NO	bb
7	7 180102M2_8	Standard	150.000	6.16	22960.252	11378.685	25.223	148.5	-1.0	NO		NO	bb
8	8 180102M2_9	Standard	150.000	6.16	22658.357	10232.887	27.678	162.9	8.6	NO		NO	bb

**Compound name: 13C2-PFHxDA**

Response Factor: 0.432067

RRF SD: 0.0585617, Relative SD: 13.5538

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 180102M2_2	Standard	5.000	6.44	2287.571	10469.664	2.731	6.3	26.4	NO		NO	bb
2	2 180102M2_3	Standard	5.000	6.44	1923.725	12880.041	1.867	4.3	-13.6	NO		NO	bb
3	3 180102M2_4	Standard	5.000	6.44	2087.165	12169.355	2.144	5.0	-0.8	NO		NO	bb
4	4 180102M2_5	Standard	5.000	6.44	1935.460	10135.316	2.387	5.5	10.5	NO		NO	bb
5	5 180102M2_6	Standard	5.000	6.44	2134.108	13274.537	2.010	4.7	-7.0	NO		NO	bb
6	6 180102M2_7	Standard	5.000	6.44	1832.003	12415.121	1.845	4.3	-14.6	NO		NO	bb
7	7 180102M2_8	Standard	5.000	6.44	1881.102	11378.685	2.066	4.8	-4.3	NO		NO	bb
8	8 180102M2_9	Standard	5.000	6.44	1828.044	10232.887	2.233	5.2	3.4	NO		NO	bb

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

Response Factor: 0.161256

RRF SD: 0.0120343, Relative SD: 7.46286

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 180102M2_2	Standard	150.000	6.31	18647.293	10469.664	22.263	138.1	-8.0	NO		NO	bb
2	2 180102M2_3	Standard	150.000	6.31	23599.381	12880.041	22.903	142.0	-5.3	NO		NO	bb
3	3 180102M2_4	Standard	150.000	6.31	21770.959	12169.355	22.362	138.7	-7.5	NO		NO	bb
4	4 180102M2_5	Standard	150.000	6.31	22482.695	10135.316	27.728	172.0	14.6	NO		NO	bb
5	5 180102M2_6	Standard	150.000	6.31	25207.309	13274.537	23.737	147.2	-1.9	NO		NO	bb
6	6 180102M2_7	Standard	150.000	6.31	24505.541	12415.121	24.673	153.0	2.0	NO		NO	bb
7	7 180102M2_8	Standard	150.000	6.31	22505.619	11378.685	24.723	153.3	2.2	NO		NO	bb
8	8 180102M2_9	Standard	150.000	6.31	20561.994	10232.887	25.118	155.8	3.8	NO		NO	bb

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

Response Factor: 0.157526

RRF SD: 0.0210896, Relative SD: 13.388

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 180102M2_2	Standard	150.000	6.46	23019.424	10469.664	27.483	174.5	16.3	NO		NO	bb
2	2 180102M2_3	Standard	150.000	6.46	20567.943	12880.041	19.961	126.7	-15.5	NO		NO	bb
3	3 180102M2_4	Standard	150.000	6.46	17832.957	12169.355	18.317	116.3	-22.5	NO		NO	bb
4	4 180102M2_5	Standard	150.000	6.46	19875.211	10135.316	24.512	155.6	3.7	NO		NO	bb
5	5 180102M2_6	Standard	150.000	6.46	25813.174	13274.537	24.307	154.3	2.9	NO		NO	bb
6	6 180102M2_7	Standard	150.000	6.46	22655.969	12415.121	22.811	144.8	-3.5	NO		NO	bd
7	7 180102M2_8	Standard	150.000	6.46	22587.609	11378.685	24.814	157.5	5.0	NO		NO	bb
8	8 180102M2_9	Standard	150.000	6.46	21959.977	10232.887	26.825	170.3	13.5	NO		NO	bd

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**Compound name: 13C4-PFBA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	1.32	9795.079	9795.079	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	1.33	9353.119	9353.119	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	1.33	9888.167	9888.167	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	1.33	10208.585	10208.585	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	1.33	11545.845	11545.845	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	1.33	10184.753	10184.753	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	1.33	9914.055	9914.055	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	1.33	10564.219	10564.219	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C5-PFHxA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	3.07	11257.119	11257.119	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.07	11155.473	11155.473	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.07	10715.271	10715.271	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.07	10941.471	10941.471	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.07	12852.977	12852.977	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.07	11296.521	11296.521	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.07	10743.026	10743.026	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.07	11503.685	11503.685	12.500	12.5	0.0	NO		NO	bb



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**Compound name: 13C3-PFHxS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 56 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	3.84	2657.506	2657.506	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.84	2624.274	2624.274	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.84	3029.475	3029.475	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.84	3337.803	3337.803	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.84	3400.203	3400.203	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.84	3109.047	3109.047	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.84	3092.462	3092.462	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.84	2866.612	2866.612	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C8-PFOA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.21	11300.266	11300.266	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.21	11166.586	11166.586	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.21	13026.614	13026.614	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.21	10689.178	10689.178	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.21	12345.387	12345.387	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.21	11438.119	11438.119	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.21	11487.354	11487.354	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.21	10658.433	10658.433	12.500	12.5	0.0	NO		NO	bb

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**Compound name: 13C9-PFNA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.65	11569.109	11569.109	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.65	10709.896	10709.896	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.65	9521.270	9521.270	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.65	11166.313	11166.313	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.65	10782.388	10782.388	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.65	10069.055	10069.055	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.65	11682.408	11682.408	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.65	10037.111	10037.111	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C4-PFOS**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 59 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc.	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.73	2791.994	2791.994	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.73	2652.125	2652.125	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.73	2921.574	2921.574	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.73	2824.538	2824.538	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.73	3429.124	3429.124	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.73	2868.500	2868.500	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.73	2711.805	2711.805	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.73	3035.383	3035.383	12.500	12.5	0.0	NO		NO	bb

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**Compound name: 13C6-PFDA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 60 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.02	9374.130	9374.130	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.02	8188.296	8188.296	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.02	8646.034	8646.034	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.02	8933.577	8933.577	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.02	9861.516	9861.516	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.02	10360.227	10360.227	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.02	7338.946	7338.946	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.02	7665.349	7665.349	12.500	12.5	0.0	NO		NO	bb

**Compound name: 13C7-PFUdA**

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.35	10469.664	10469.664	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.35	12880.041	12880.041	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.35	12169.355	12169.355	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.35	10135.316	10135.316	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.35	13274.537	13274.537	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.35	12415.121	12415.121	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.35	11378.685	11378.685	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.35	10232.887	10232.887	12.500	12.5	0.0	NO		NO	bb

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Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 10:38:46

Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9996	NO	
2	2 PFPeA	0.9996	NO	
3	3 PFBS	0.9993	NO	
4	4 PFHxA	0.9997	NO	
5	5 PFHpA	0.9990	NO	
6	6 L-PFHxS	0.9984	NO	
7	8 6:2 FTS	0.9994	NO	
8	9 L-PFOA	0.9993	NO	
9	11 PFHpS	0.9970	NO	
10	12 PFNA	0.9977	NO	
11	13 PFOSA	0.9990	NO	
12	14 L-PFOS	0.9990	NO	
13	16 PFDA	0.9967	NO	
14	17 8:2 FTS	0.9994	NO	
15	18 N-MeFOSAA	0.9957	NO	
16	19 N-EtFOSAA	0.9978	NO	
17	20 PFUdA	0.9998	NO	
18	21 PFDS	0.9994	NO	
19	22 PFDoA	0.9988	NO	
20	23 N-MeFOSA	0.9995	NO	
21	24 PFTrDA	0.9985	NO	
22	25 PFTeDA	0.9975	NO	
23	26 N-EtFOSA	0.9996	NO	
24	27 PFHxDA	0.9989	NO	
25	28 PFODA	0.9975	NO	
26	29 N-MeFOSE	0.9985	NO	
27	30 N-EtFOSE	0.9966	NO	
28	31 13C3-PFBA		NO	1.820
29	32 13C3-PFPeA		NO	3.572
30	33 13C3-PFBS		NO	5.002
31	34 13C2-PFHxA		NO	3.078

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Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
32	35 13C4-PFHpA		NO	6.714
33	36 18O2-PFHxS		NO	8.278
34	37 13C2-6:2 FTS		NO	8.585
35	38 13C2-PFOA		NO	7.595
36	39 13C5-PFNA		NO	10.936
37	40 13C8-PFOA		NO	15.684
38	41 13C8-PFOS		NO	10.402
39	42 13C2-PFDA		NO	16.511
40	43 13C2-8:2 FTS		NO	16.944
41	44 d3-N-MeFOSAA		NO	11.965
42	45 d5-N-EtFOSAA		NO	9.074
43	46 13C2-PFUdA		NO	14.630
44	47 13C2-PFDoA		NO	19.310
45	48 d3-N-MeFOSA		NO	9.287
46	49 13C2-PFTeDA		NO	16.680
47	50 d5-N-ETFOSA		NO	10.549
48	51 13C2-PFHxDA		NO	13.554
49	52 d7-N-MeFOSE		NO	7.463
50	53 d9-N-EtFOSE		NO	13.388
51	54 13C4-PFBA		NO	0.000
52	55 13C5-PFHxA		NO	0.000
53	56 13C3-PFHxS		NO	0.000
54	57 13C8-PFOA		NO	0.000
55	58 13C9-PFNA		NO	0.000
56	59 13C4-PFOS		NO	0.000
57	60 13C6-PFDA		NO	0.000
58	61 13C7-PFUdA		NO	0.000

Dataset: Untitled

Last Altered: Wednesday, January 03, 2018 10:52:28 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:53:06 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44

Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 10:38:46

Compound name: PFBA

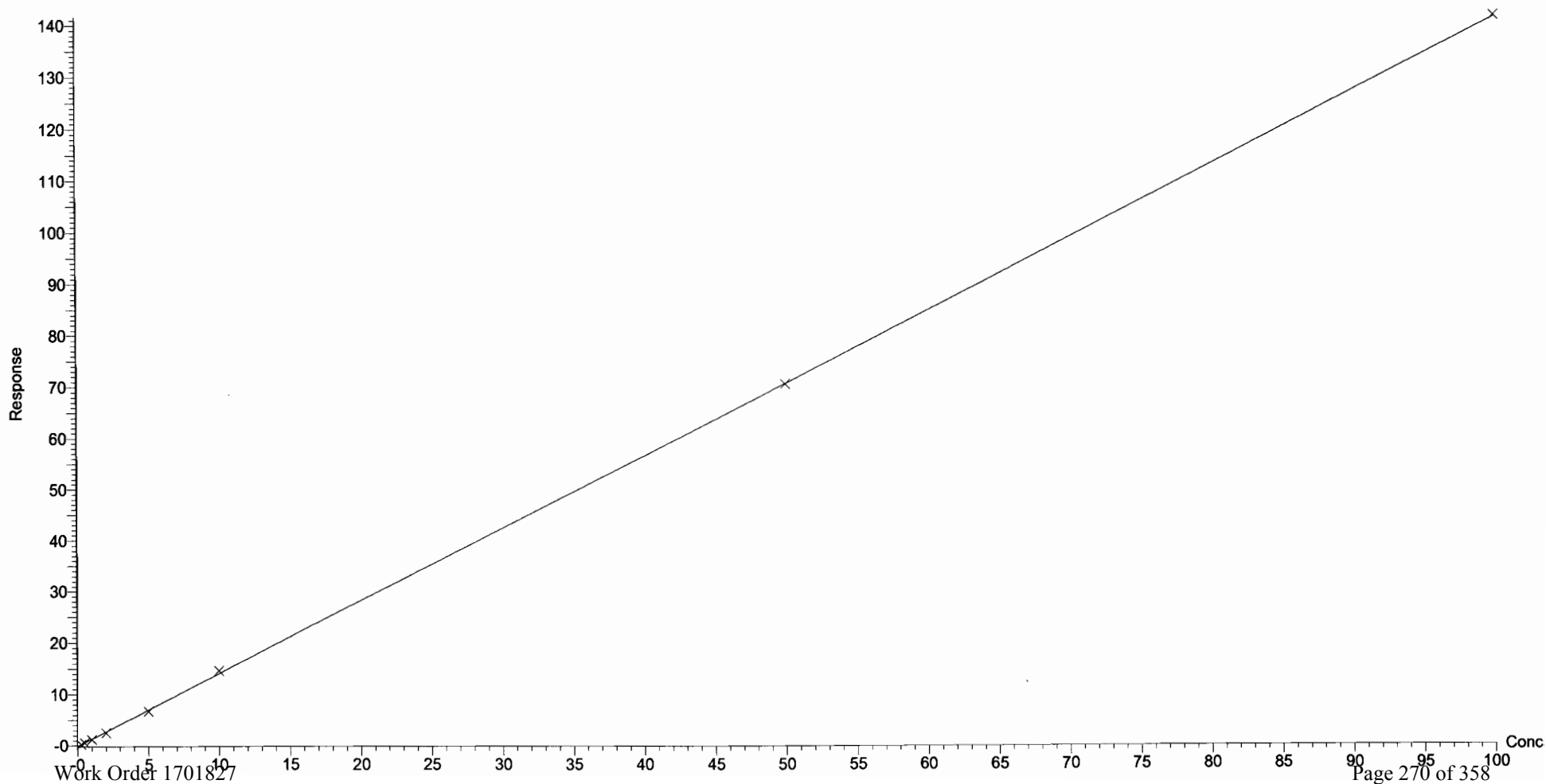
	Name	ID	Acq.Date	Acq.Time
1	180102M2_1	IPA	02-Jan-18	15:24:32
2	180102M2_2	ST180102M2-1 PFC CS-2 17L2606	02-Jan-18	15:35:49
3	180102M2_3	ST180102M2-2 PFC CS-1 17L2607	02-Jan-18	15:46:59
4	180102M2_4	ST180102M2-3 PFC CS0 17L2608	02-Jan-18	15:58:11
5	180102M2_5	ST180102M2-4 PFC CS1 17L2609	02-Jan-18	16:09:21
6	180102M2_6	ST180102M2-5 PFC CS2 17L2610	02-Jan-18	16:20:32
7	180102M2_7	ST180102M2-6 PFC CS3 17L2611	02-Jan-18	16:31:43
8	180102M2_8	ST180102M2-7 PFC CS4 17L2612	02-Jan-18	16:42:54
9	180102M2_9	ST180102M2-8 PFC CS5 17L2613	02-Jan-18	16:54:04
10	180102M2_10	ST180102M2-9 PFC CS6 17L2710	02-Jan-18	17:05:15
11	180102M2_11	ST180102M2-10 PFC CS7 17L1804	02-Jan-18	17:16:26
12	180102M2_12	IPA	02-Jan-18	17:27:37
13	180102M2_13	ICV180102M2-1 PFC ICV 17L1201	02-Jan-18	17:38:47

Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 10:38:46

Compound name: PFBA  
Correlation coefficient:  $r = 0.999791$ ,  $r^2 = 0.999582$   
Calibration curve:  $1.41407 * x + -0.110571$   
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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

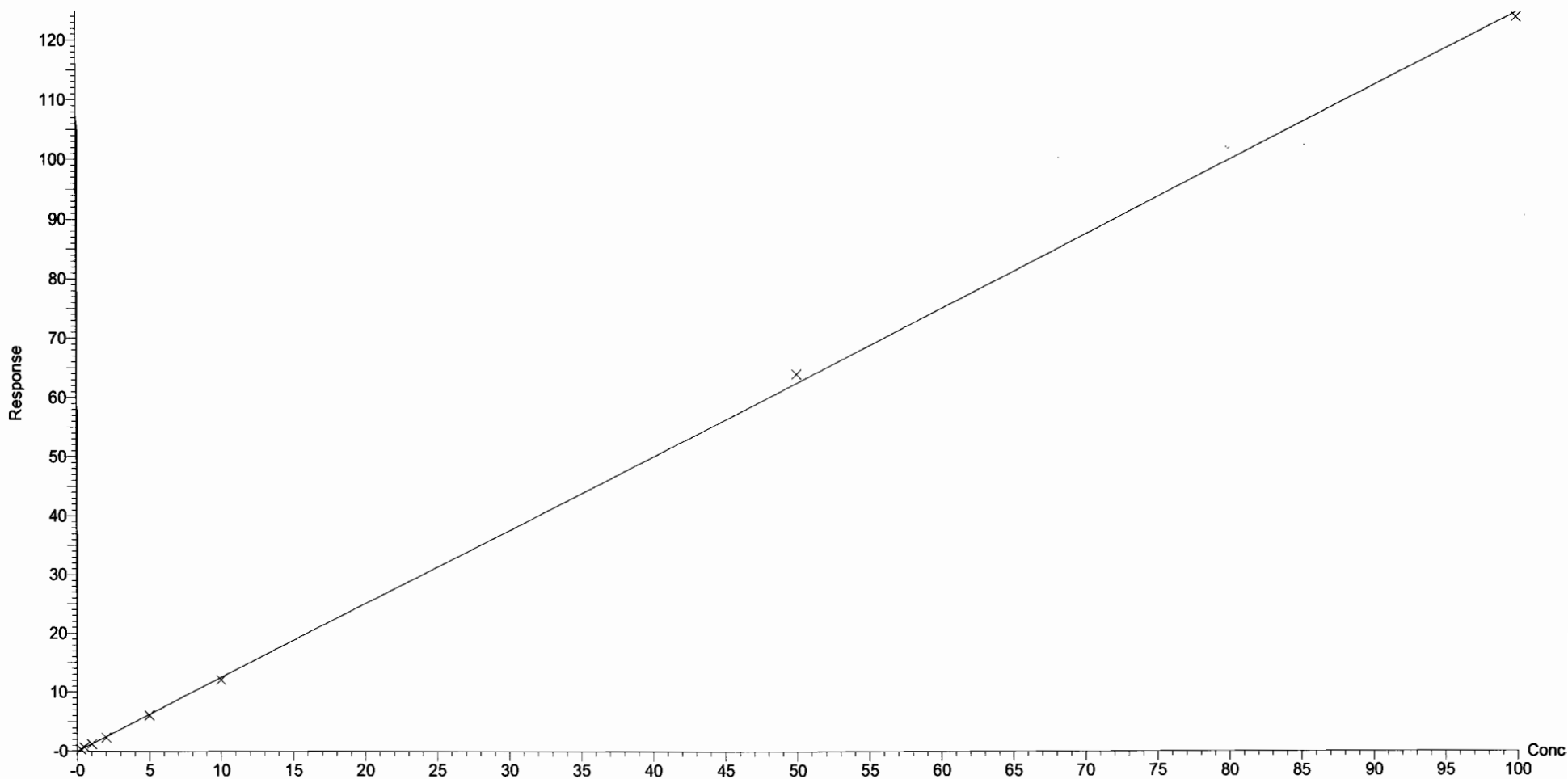
Compound name: PFPeA

Correlation coefficient:  $r = 0.999811$ ,  $r^2 = 0.999622$

Calibration curve:  $1.24942 * x + -0.05615$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

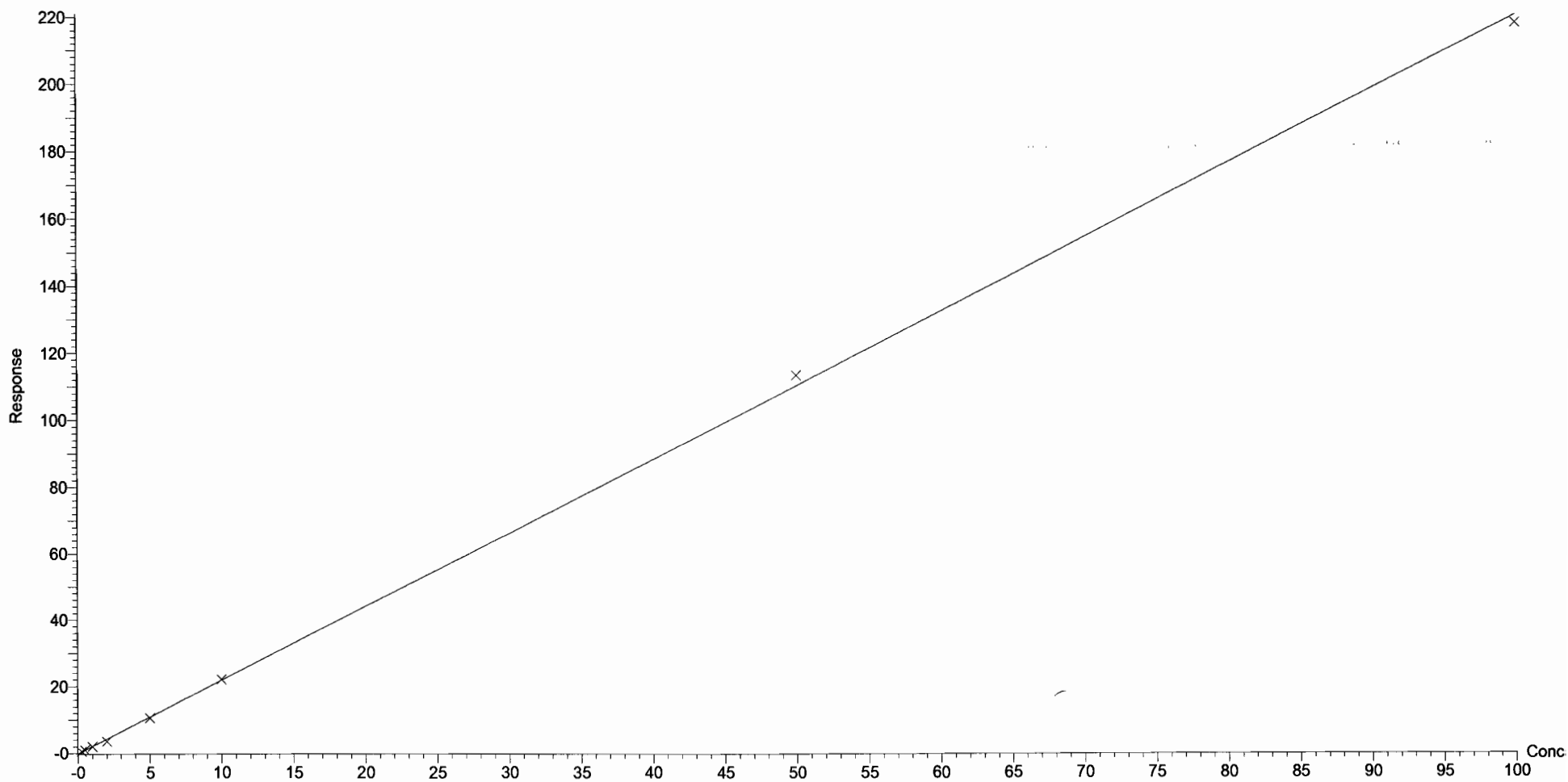
Compound name: PFBS

Correlation coefficient:  $r = 0.999631$ ,  $r^2 = 0.999262$

Calibration curve:  $2.21075 * x + -0.178043$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

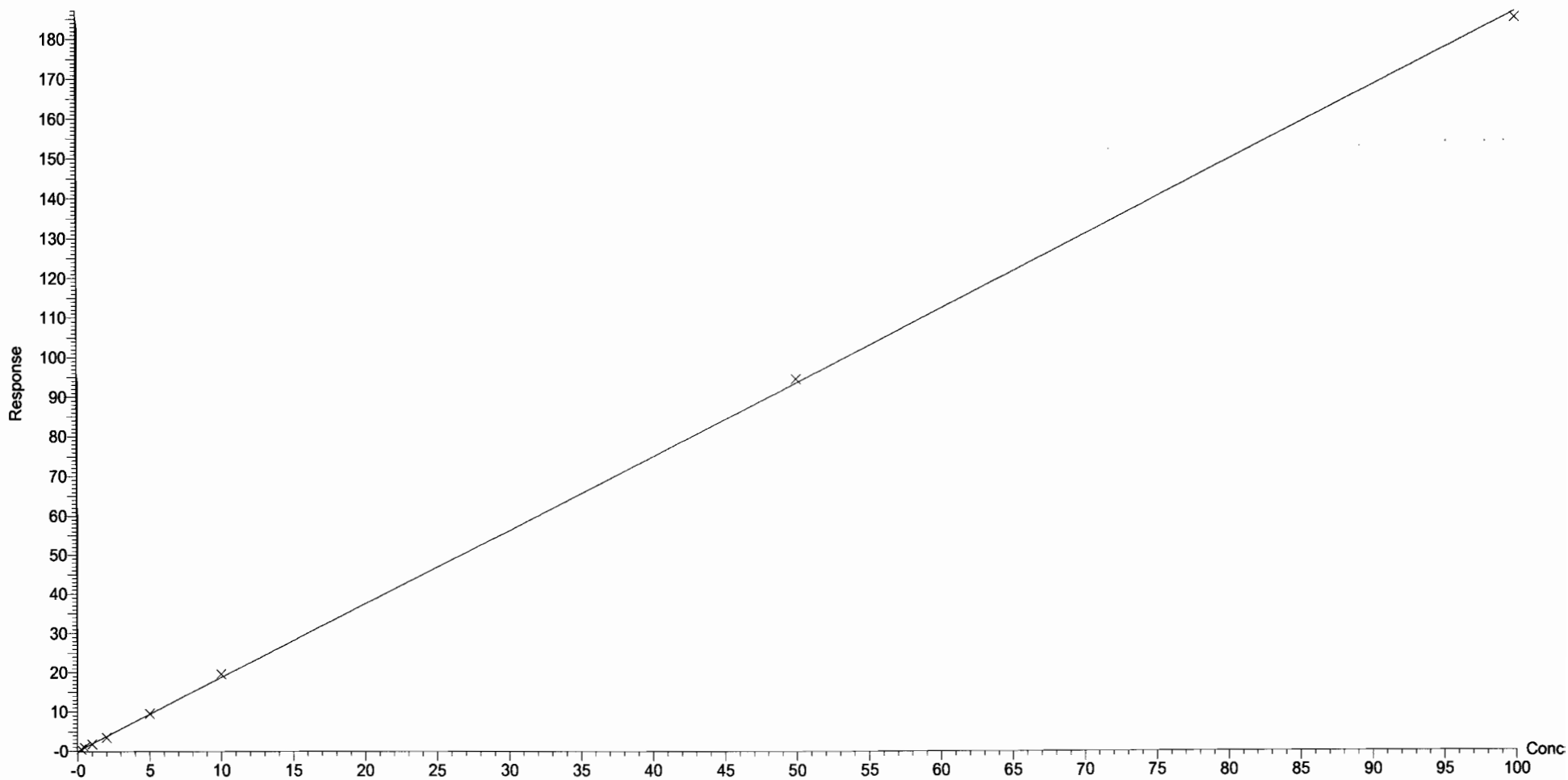
Compound name: PFHxA

Correlation coefficient:  $r = 0.999826$ ,  $r^2 = 0.999652$

Calibration curve:  $1.87024 * x + -0.00601342$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

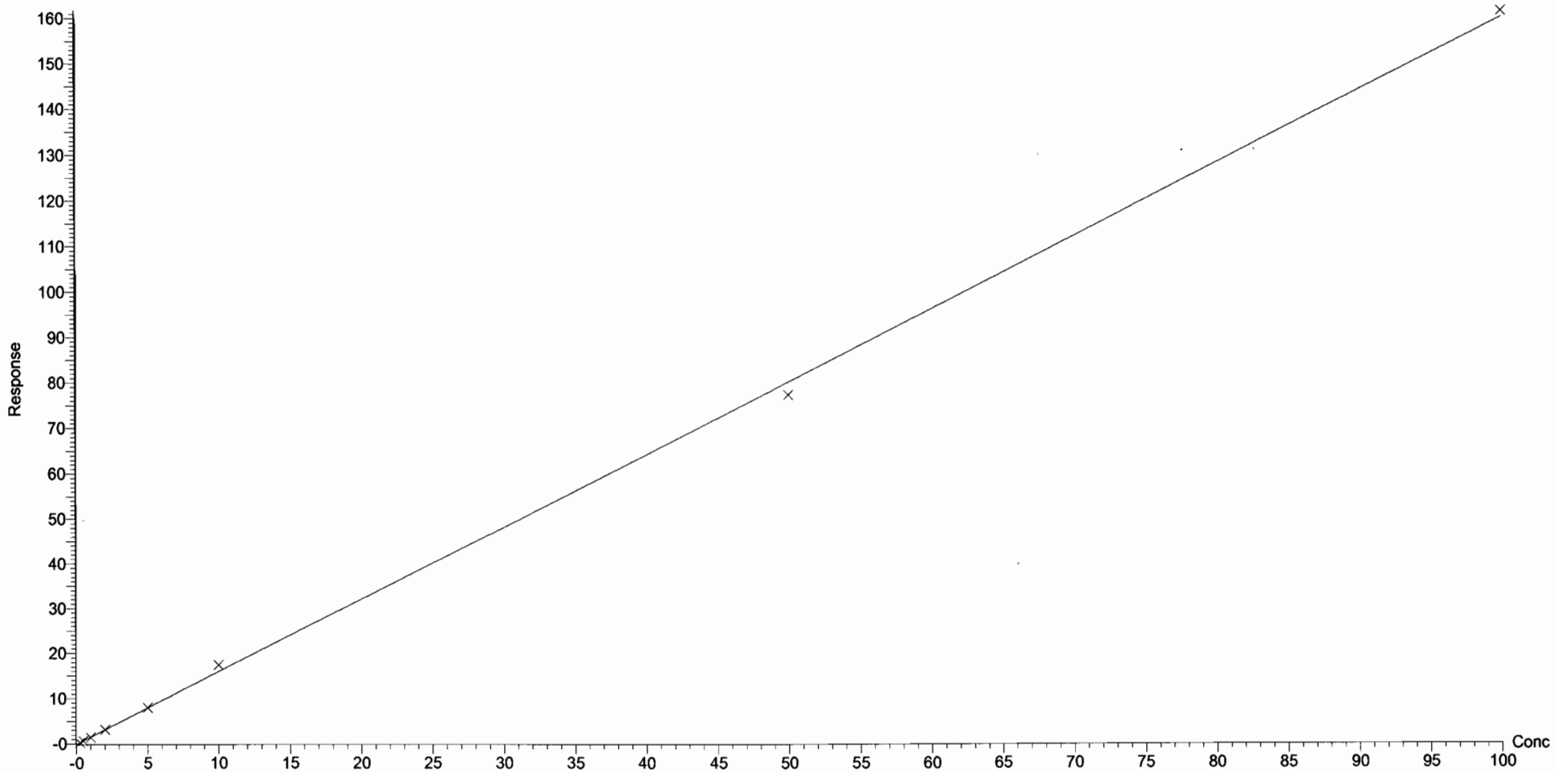
Compound name: PFHpA

Correlation coefficient:  $r = 0.999512$ ,  $r^2 = 0.999024$

Calibration curve:  $1.60481 * x + -0.093655$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

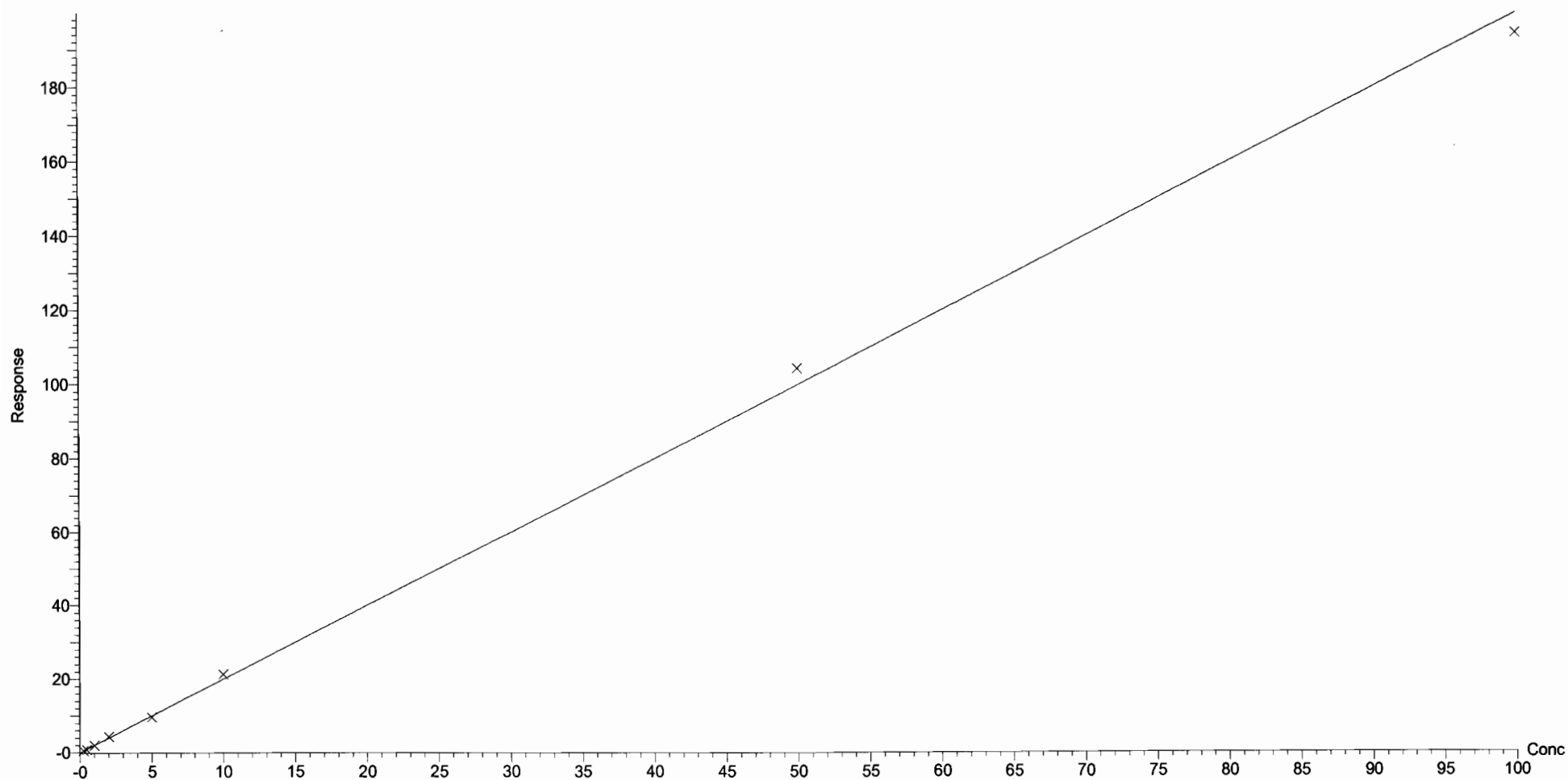
Compound name: L-PFHxS

Correlation coefficient:  $r = 0.999178$ ,  $r^2 = 0.998357$

Calibration curve:  $1.9979 * x + -0.0316488$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

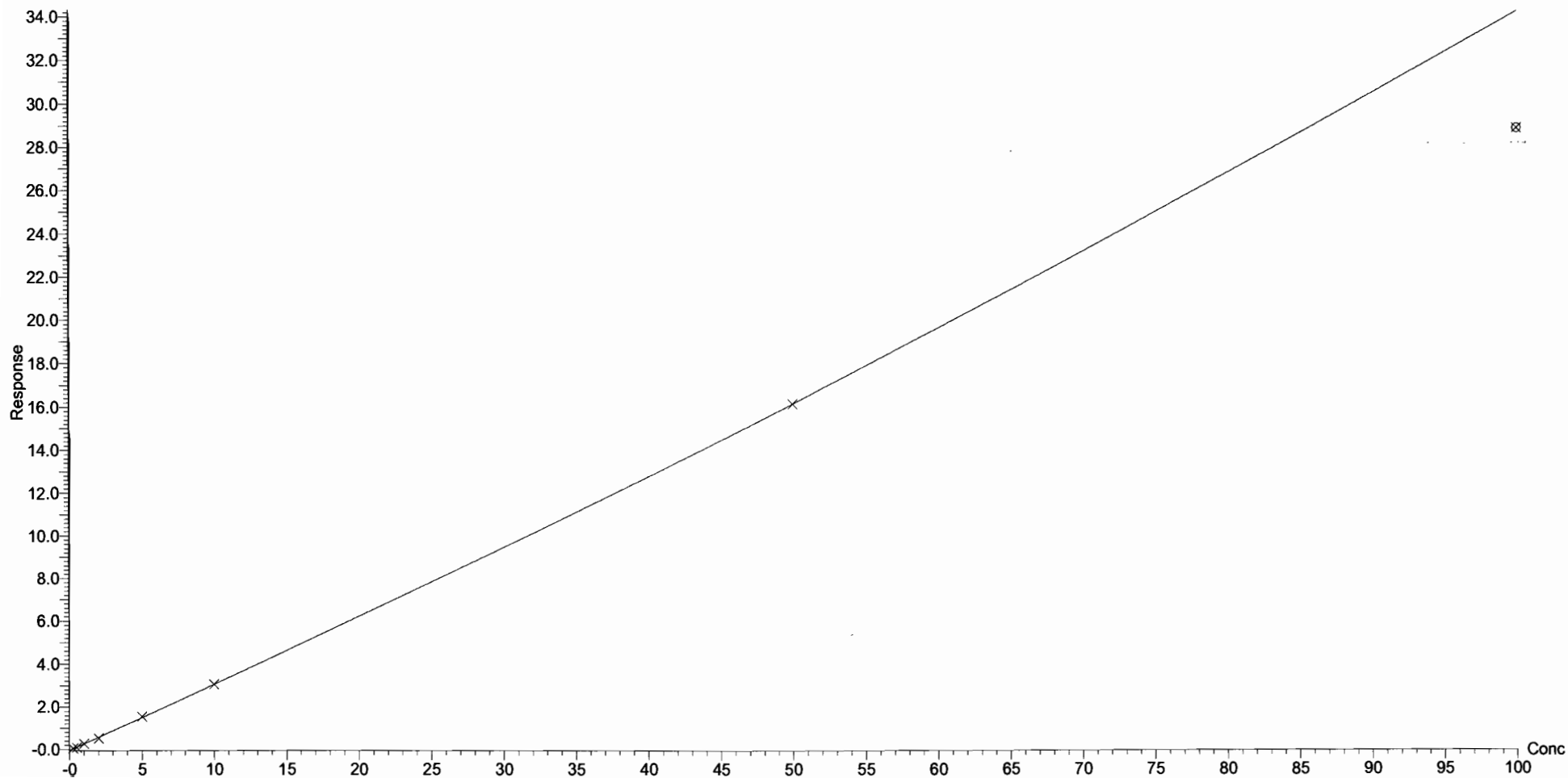
Compound name: 6:2 FTS

Coefficient of Determination:  $R^2 = 0.999391$

Calibration curve:  $0.000388154 * x^2 + 0.304544 * x + -0.033568$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

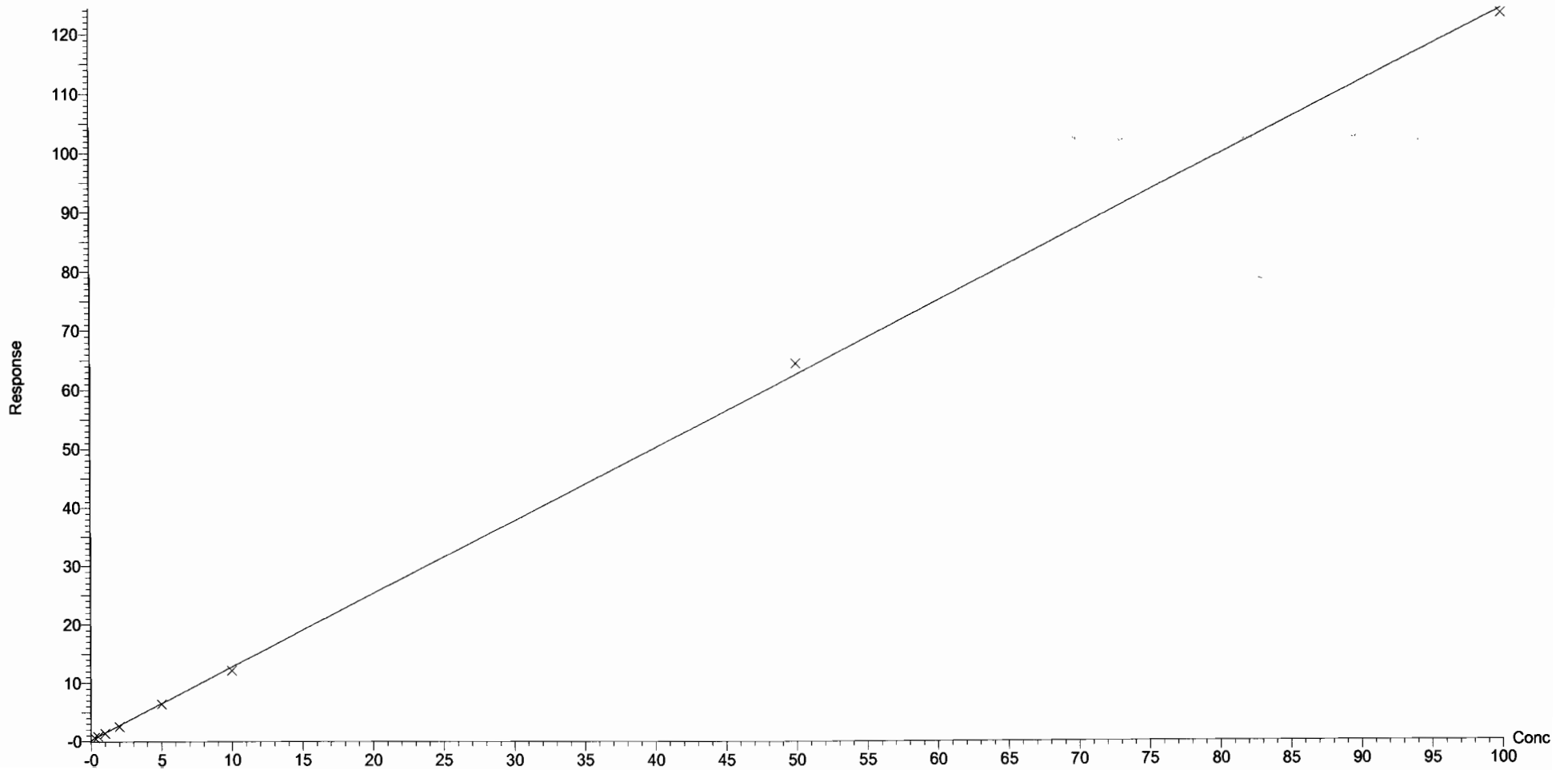
Compound name: L-PFOA

Coefficient of Determination:  $R^2 = 0.999271$

Calibration curve:  $-0.000103873 * x^2 + 1.25172 * x + 0.219686$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

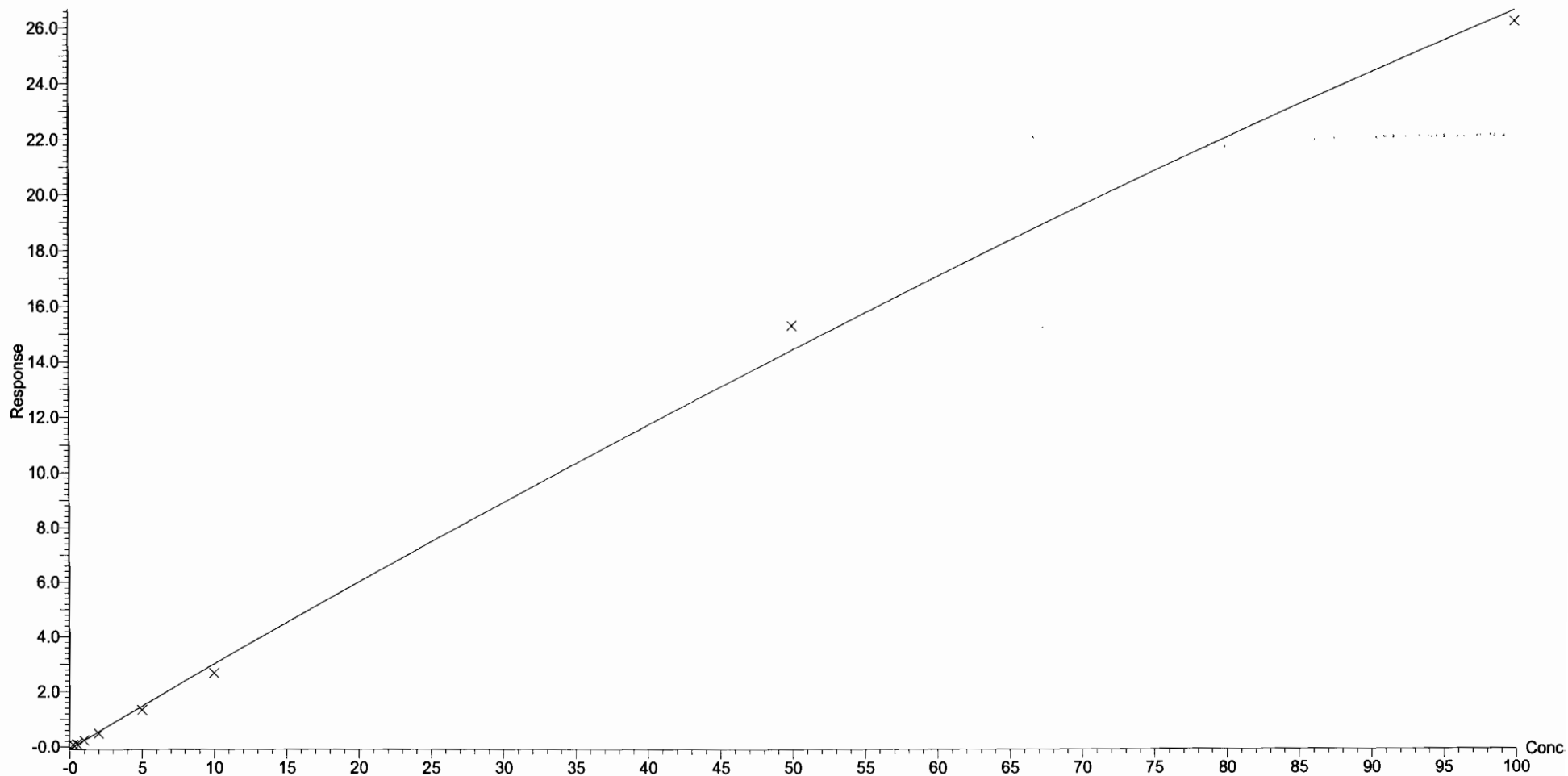
Compound name: PFHpS

Coefficient of Determination:  $R^2 = 0.997002$

Calibration curve:  $-0.000453199 * x^2 + 0.312955 * x + -0.0835439$

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

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

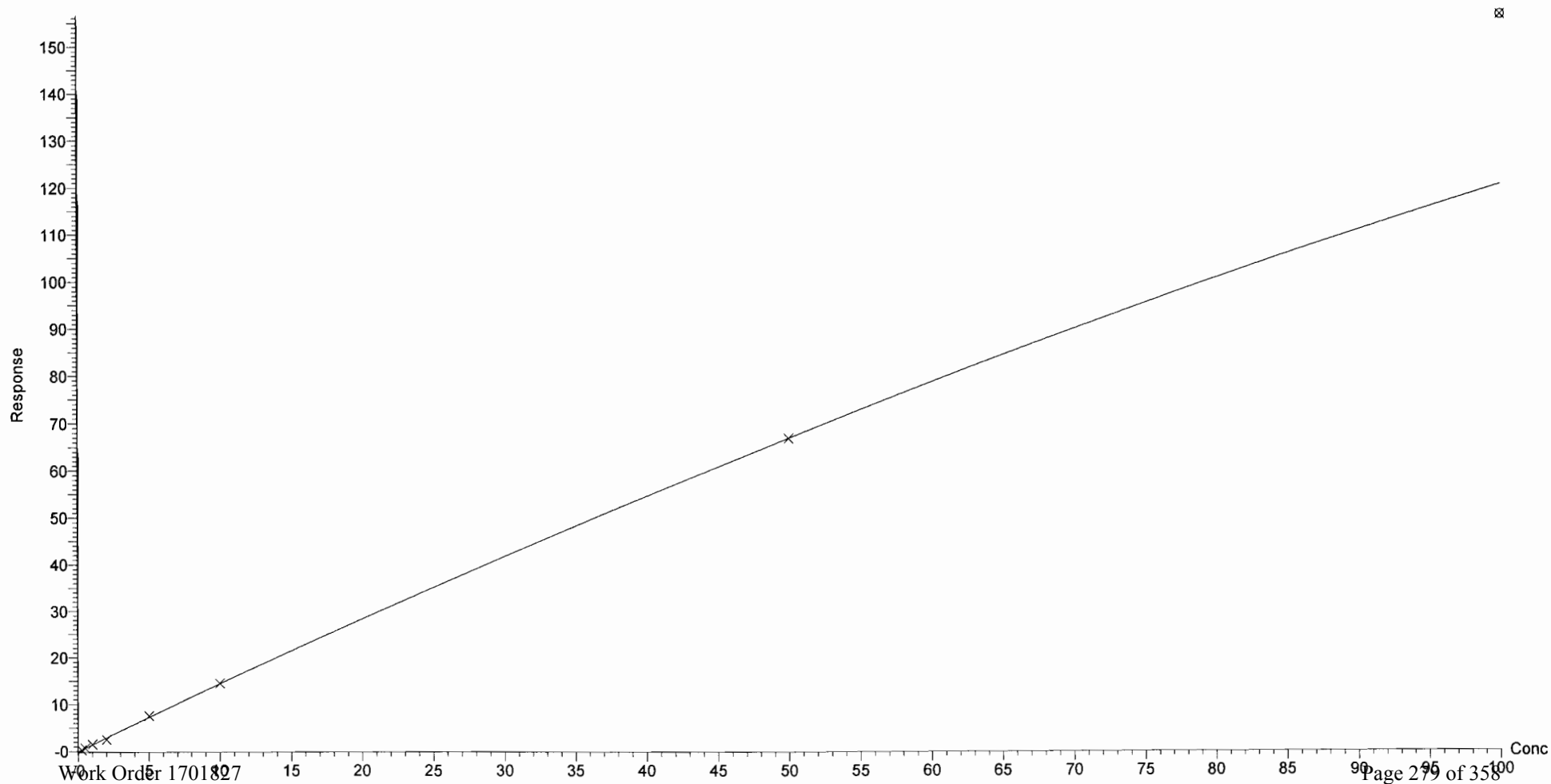


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 11:12:59 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 11:13:35 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Compound name: PFNA  
Coefficient of Determination:  $R^2 = 0.998828$   
Calibration curve:  $-0.0026515 * x^2 + 1.47025 * x + -0.0610636$   
Response type: Internal Std ( Ref 39 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None





Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

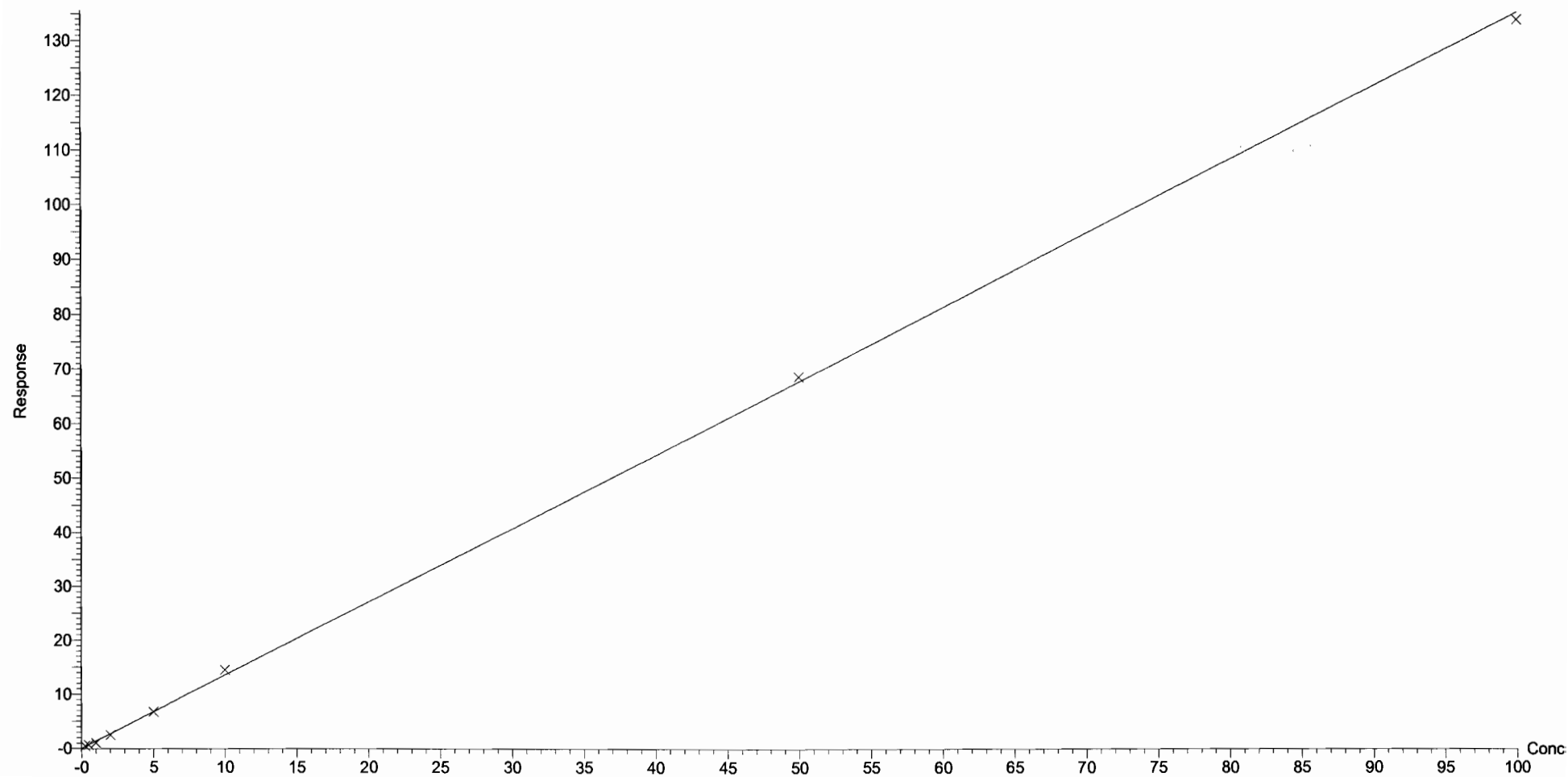
Compound name: PFOSA

Correlation coefficient:  $r = 0.999523$ ,  $r^2 = 0.999047$

Calibration curve:  $1.3556 * x + -0.0180652$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

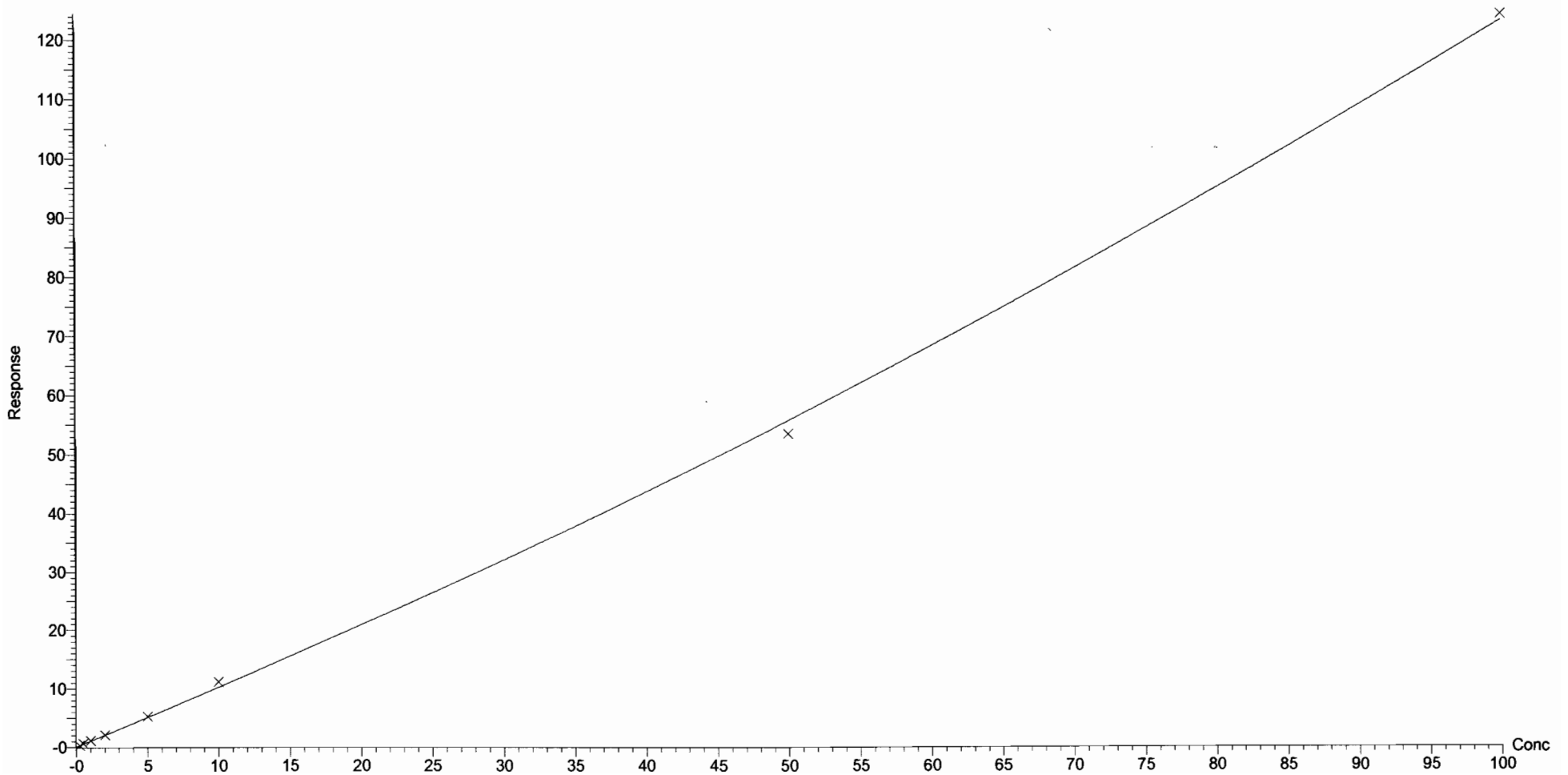
Compound name: L-PFOS

Coefficient of Determination:  $R^2 = 0.999016$

Calibration curve:  $0.00240525 * x^2 + 0.993312 * x + 0.0576985$

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

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



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

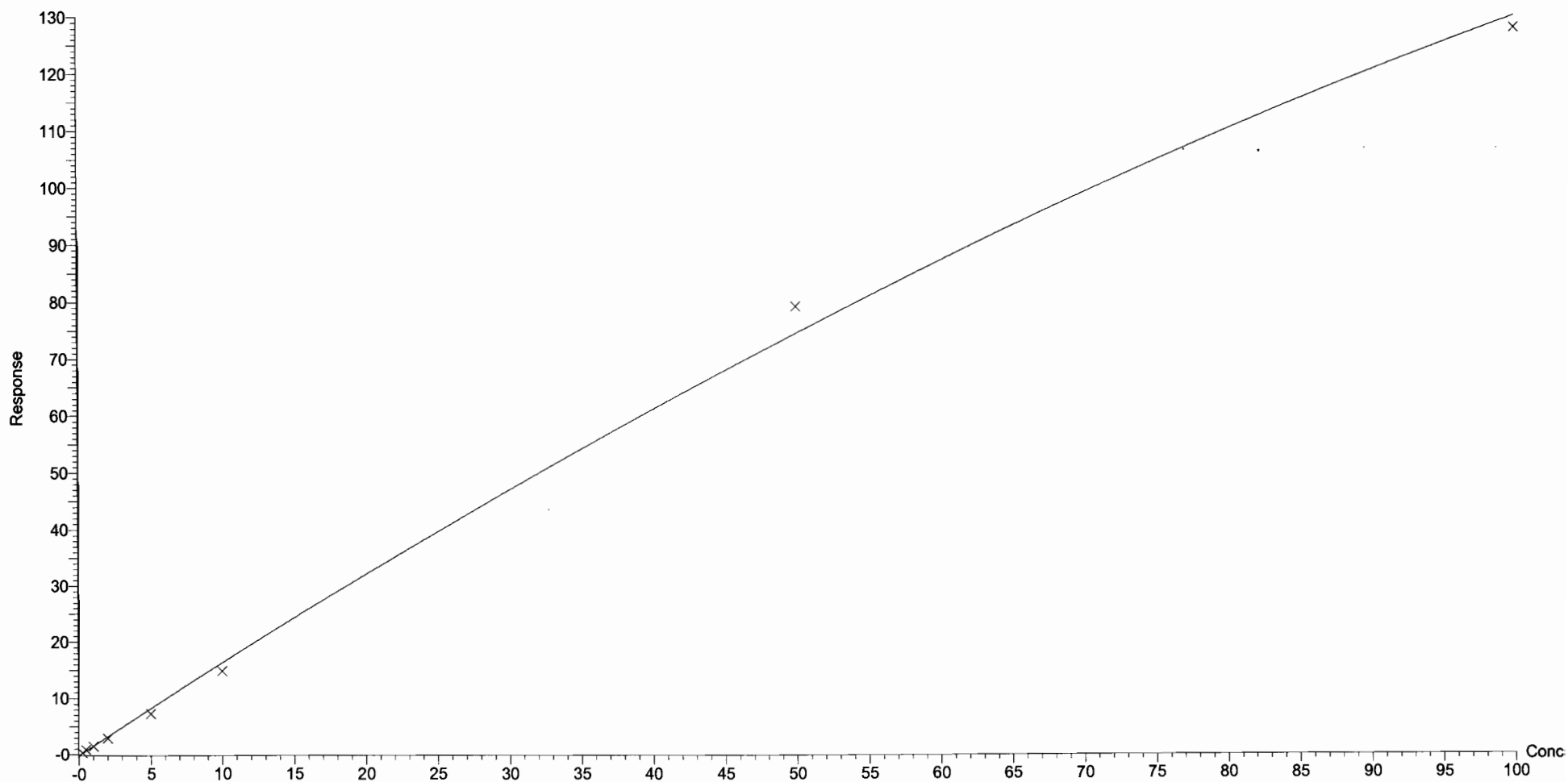
Compound name: PFDA

Coefficient of Determination:  $R^2 = 0.996665$

Calibration curve:  $-0.00380311 * x^2 + 1.68255 * x + -0.179654$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

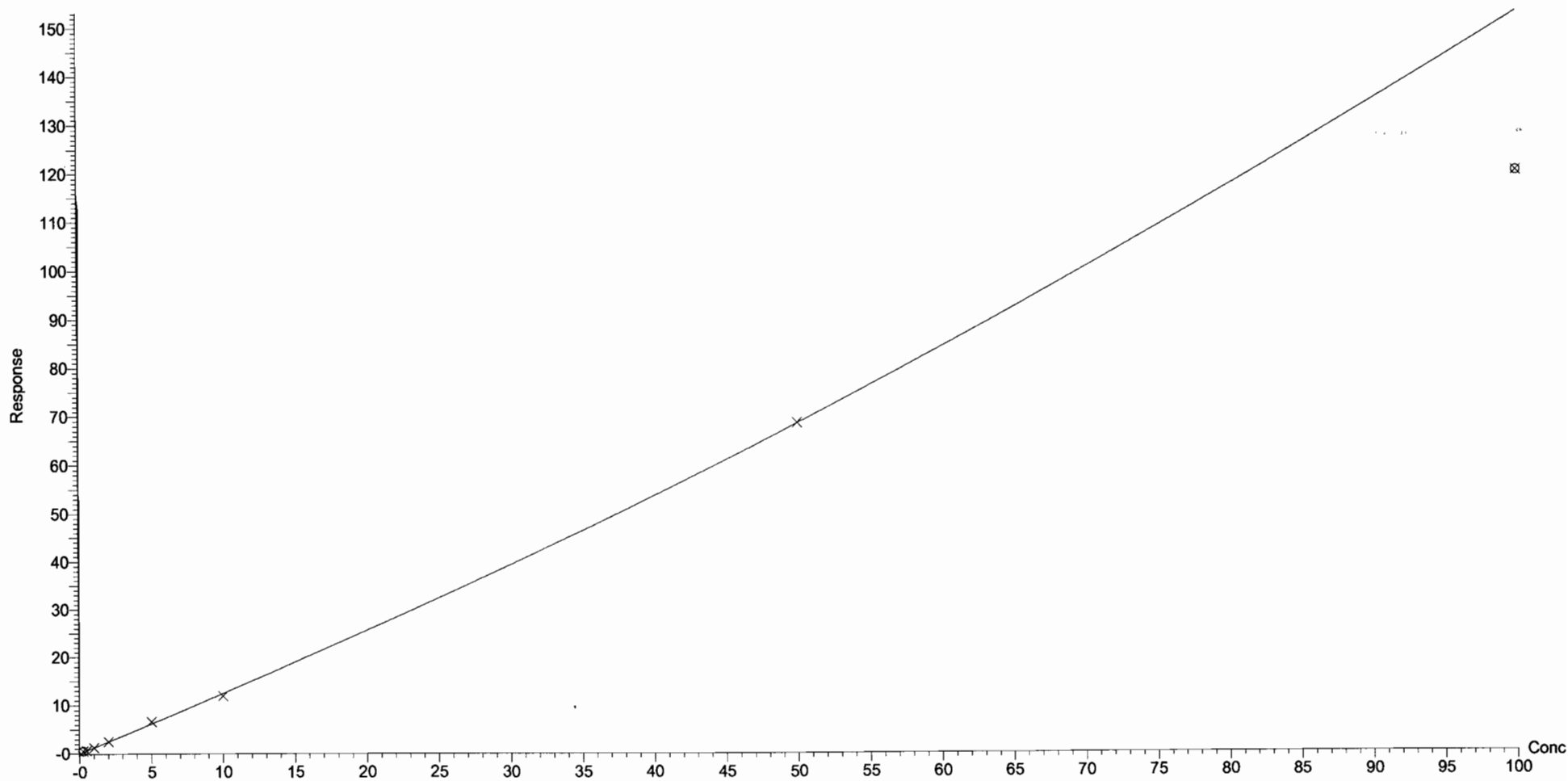
Compound name: 8:2 FTS

Coefficient of Determination:  $R^2 = 0.999379$

Calibration curve:  $0.00321238 * x^2 + 1.21 * x + 0.026507$

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

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



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

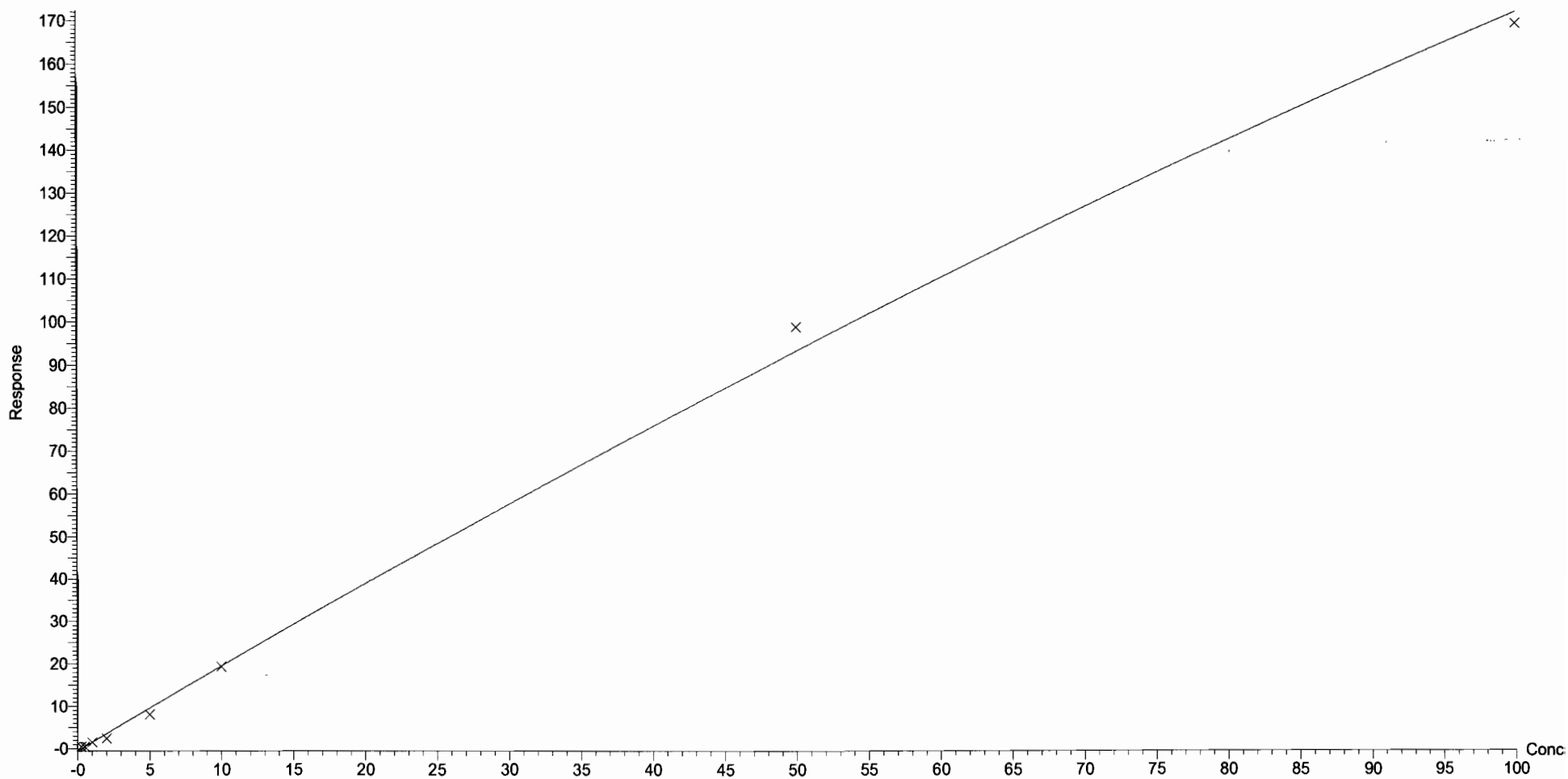
Compound name: N-MeFOSAA

Coefficient of Determination:  $R^2 = 0.995661$

Calibration curve:  $-0.00295106 * x^2 + 2.02309 * x + -0.48271$

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

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



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

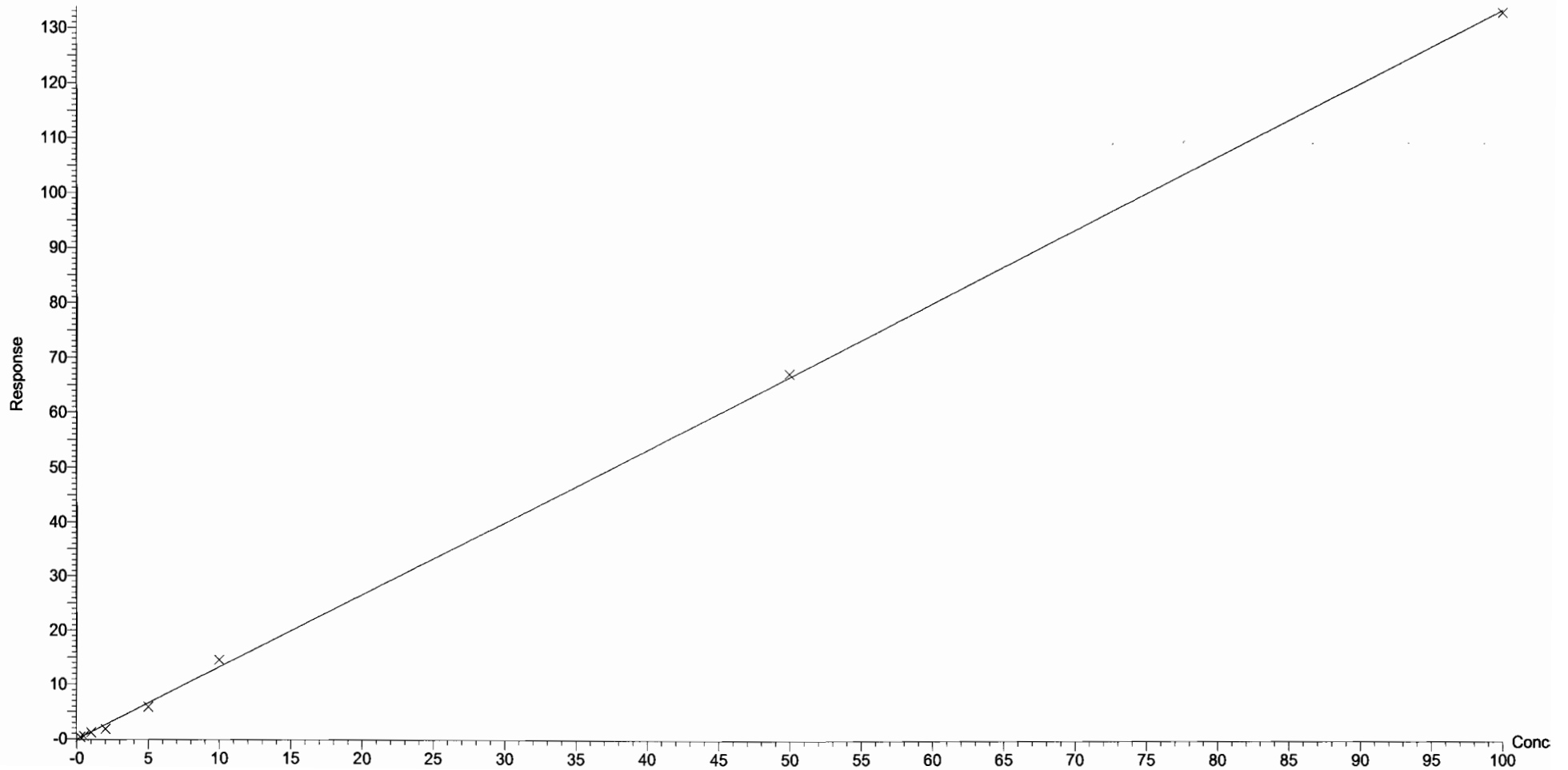
Compound name: N-EtFOSAA

Coefficient of Determination:  $R^2 = 0.997767$

Calibration curve:  $9.13857e-005 * x^2 + 1.33013 * x + -0.086728$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

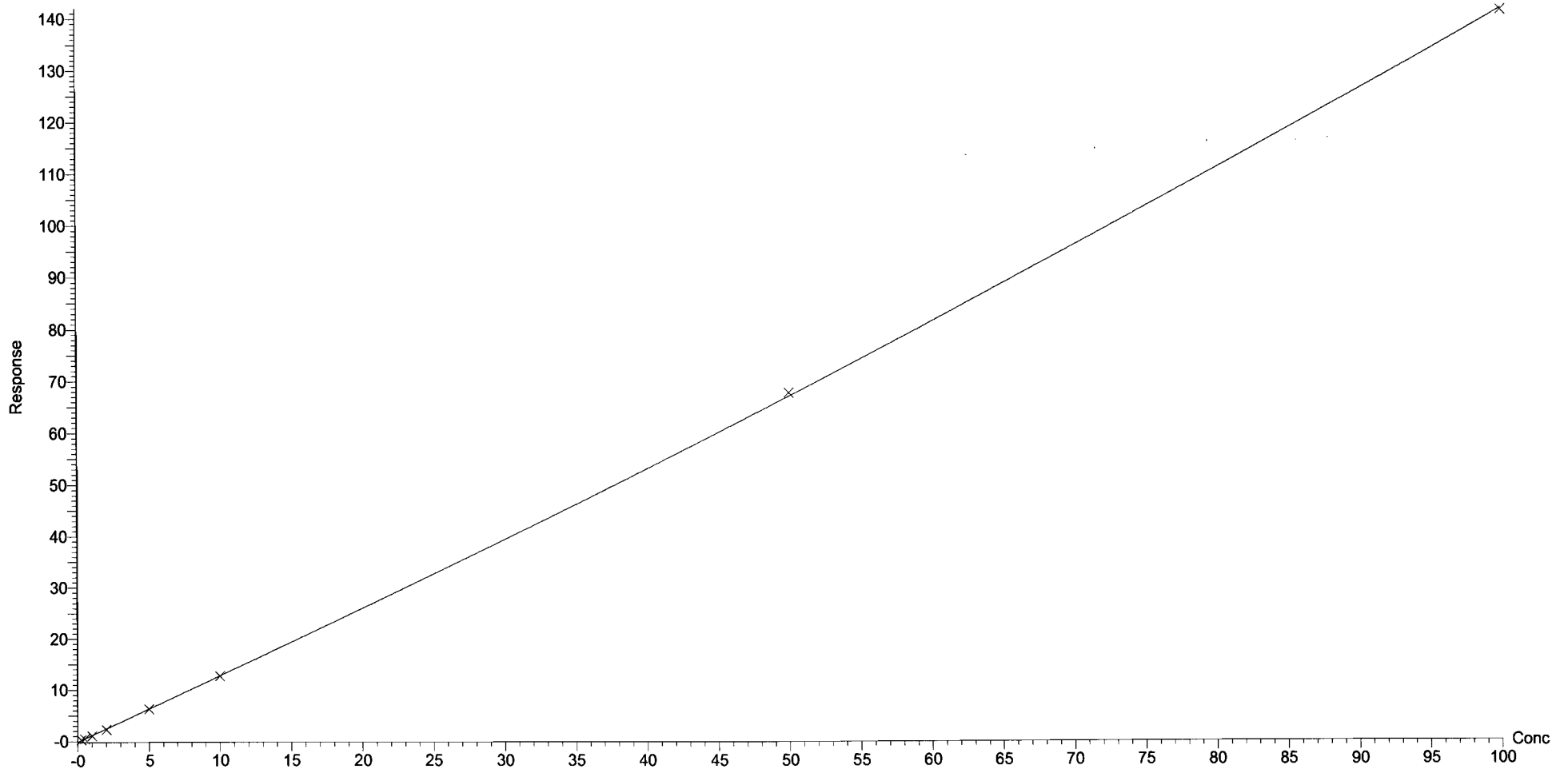
Compound name: PFUdA

Coefficient of Determination:  $R^2 = 0.999792$

Calibration curve:  $0.00151861 * x^2 + 1.26795 * x + -0.0897658$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

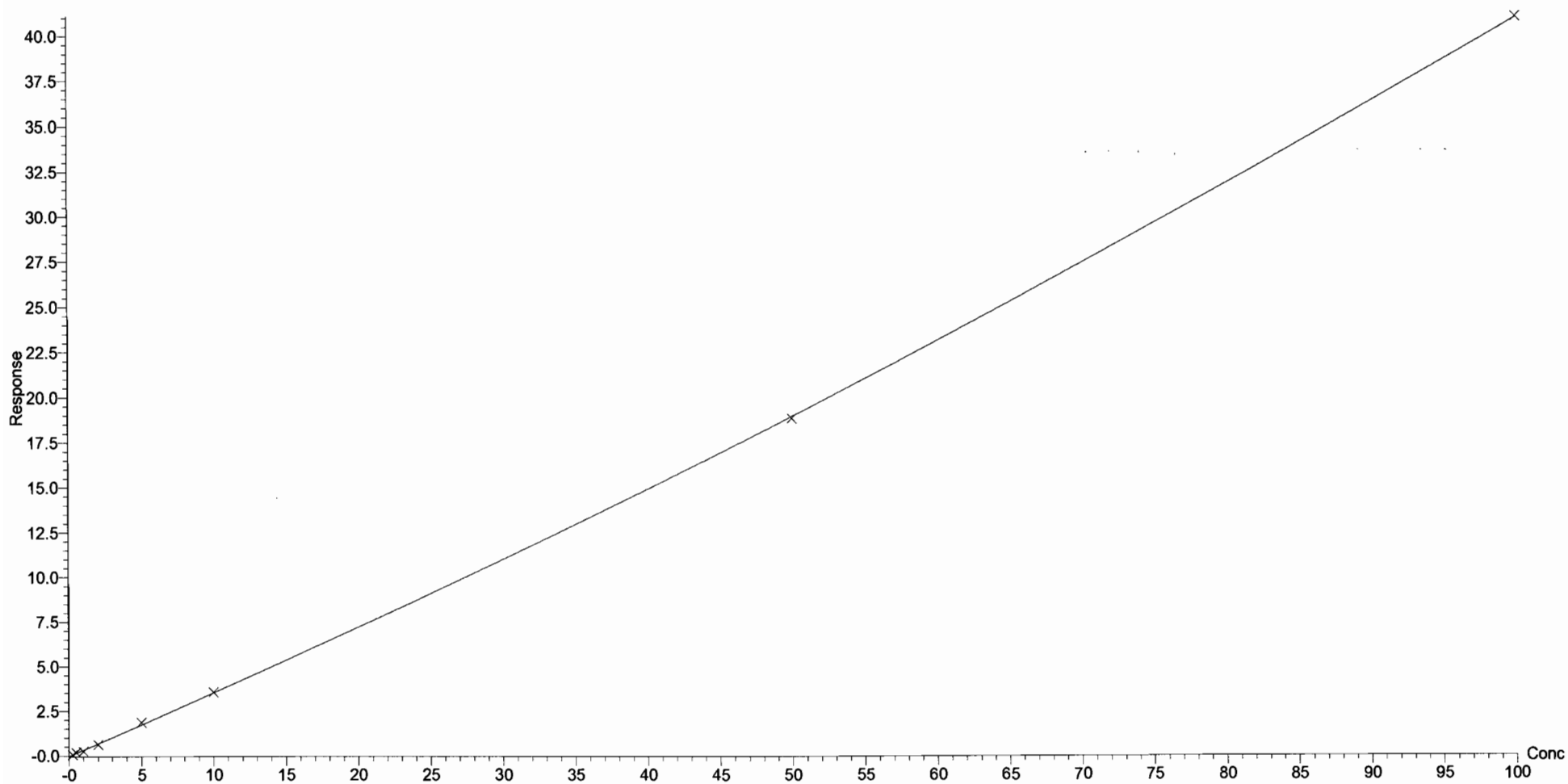
Compound name: PFDS

Coefficient of Determination:  $R^2 = 0.999404$

Calibration curve:  $0.000619715 * x^2 + 0.348908 * x + -0.0321756$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

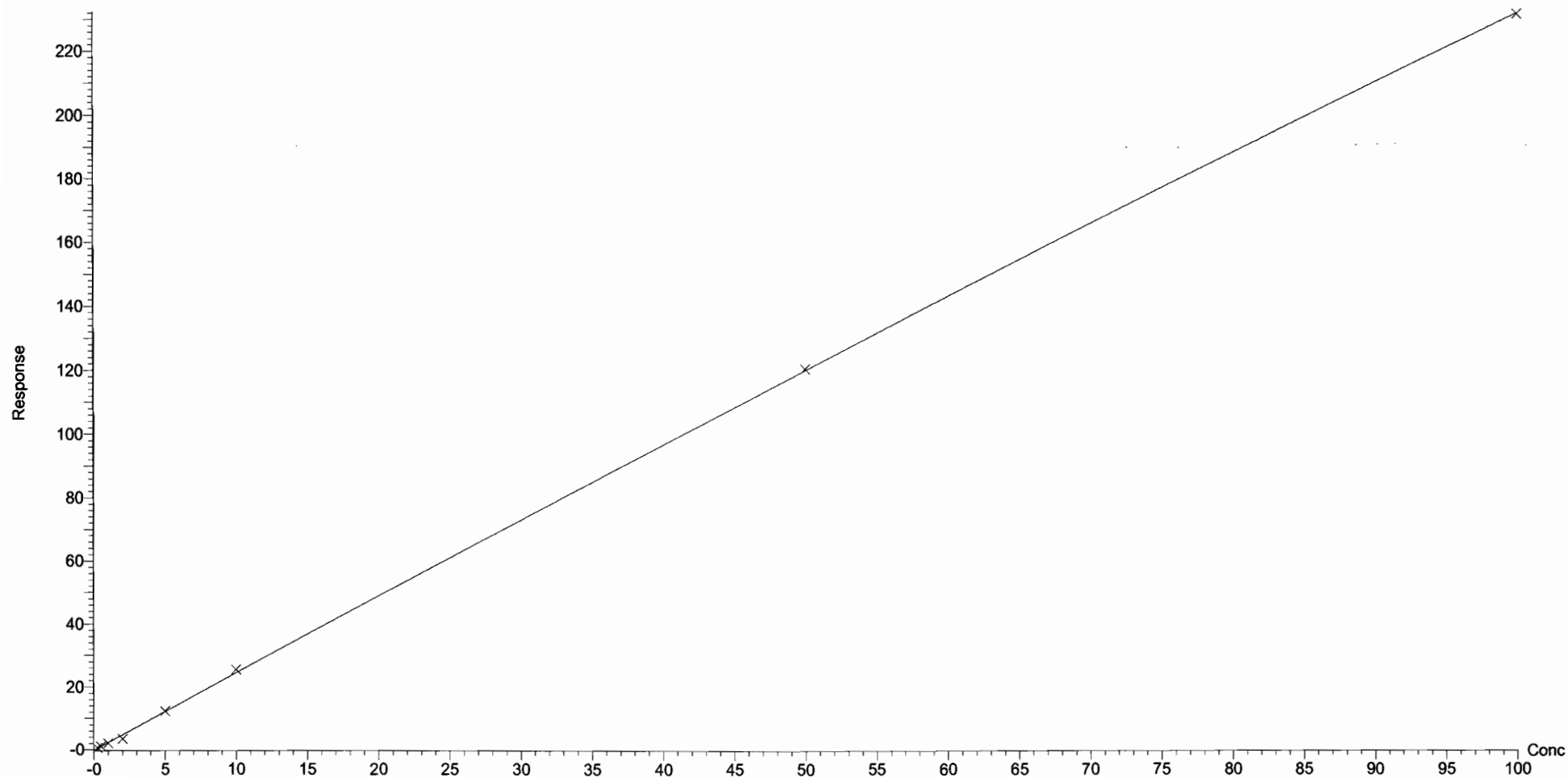
Compound name: PFDoA

Coefficient of Determination:  $R^2 = 0.998777$

Calibration curve:  $-0.00160285 * x^2 + 2.48629 * x + -0.22897$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

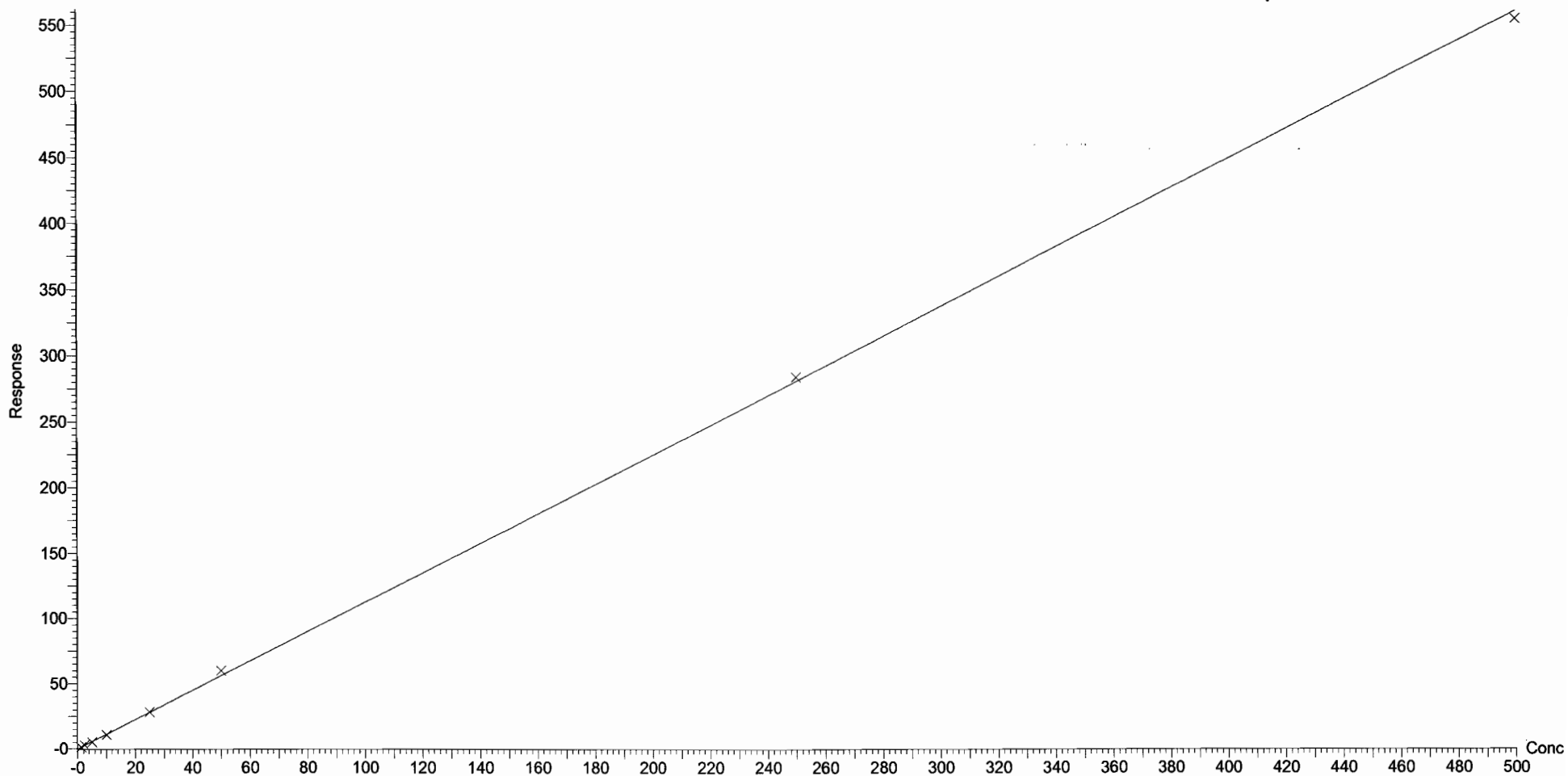
Compound name: N-MeFOSA

Correlation coefficient:  $r = 0.999762$ ,  $r^2 = 0.999523$

Calibration curve:  $1.1239 * x + -0.108539$

Response type: Internal Std ( Ref 48 ), Area \* ( IS Conc. / IS Area )

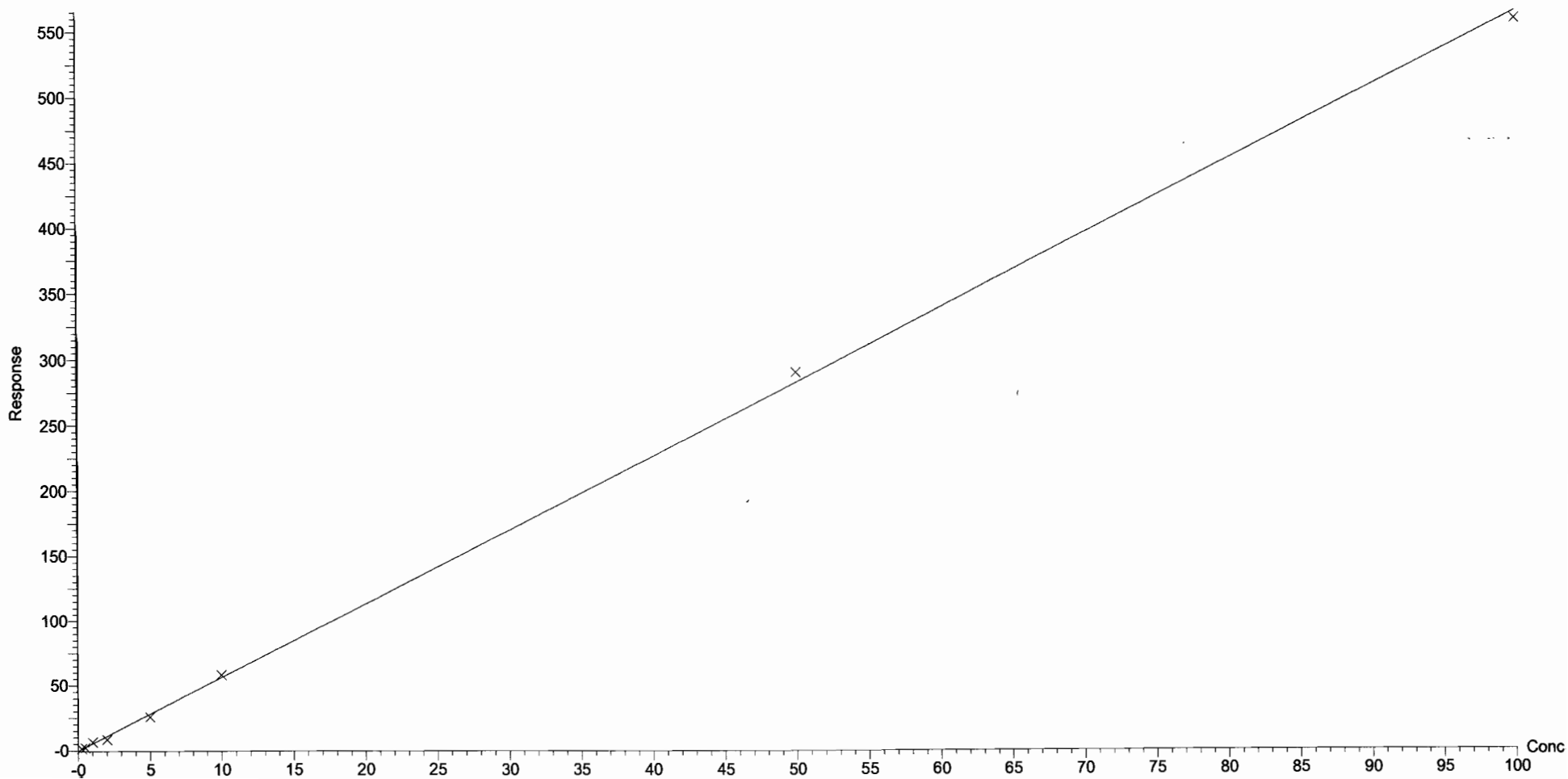
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

Compound name: PFTTrDA  
Correlation coefficient:  $r = 0.999249$ ,  $r^2 = 0.998498$   
Calibration curve:  $5.6605 * x + -0.467093$   
Response type: Internal Std ( Ref 49 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

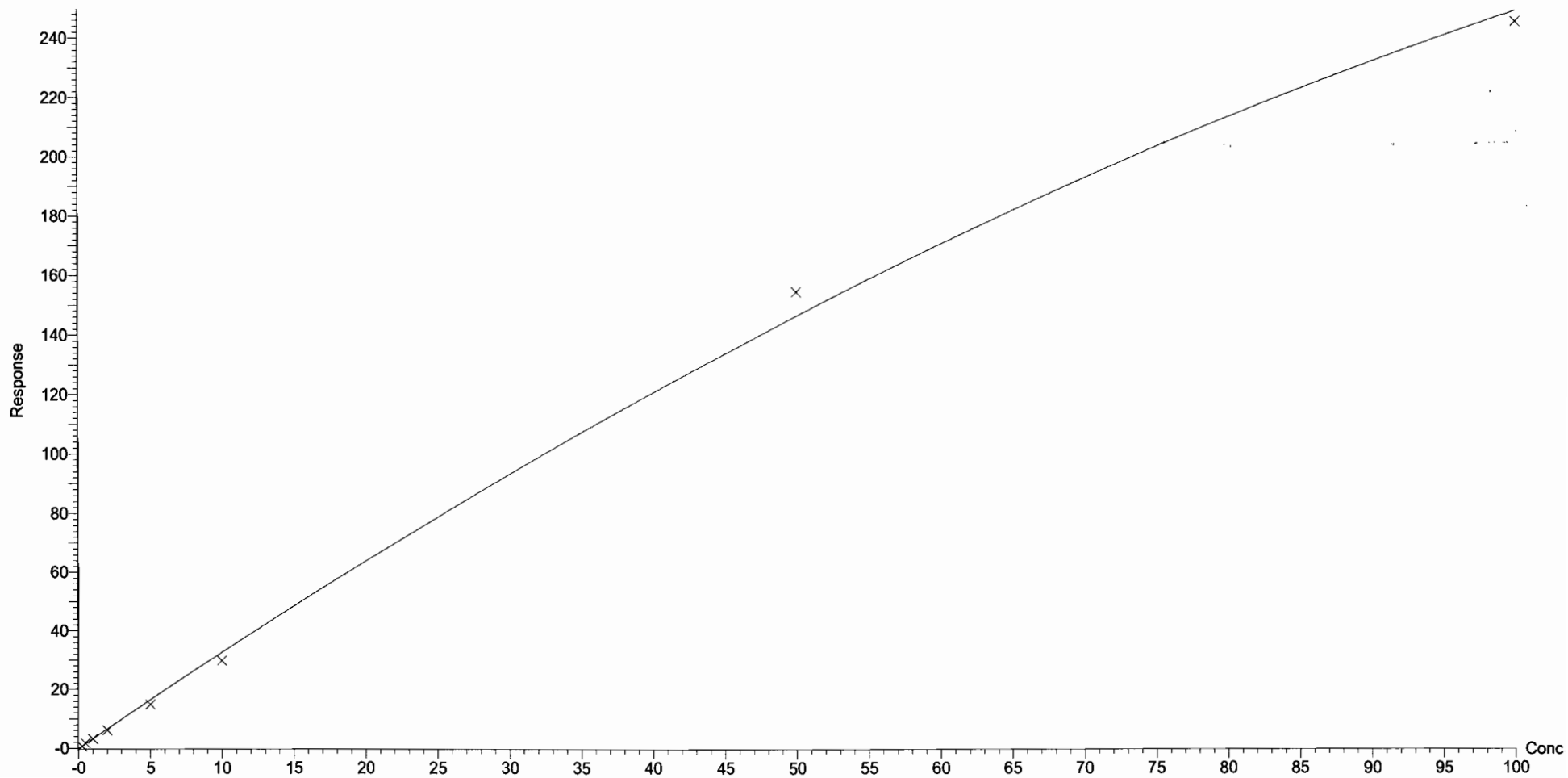
Compound name: PFTeDA

Coefficient of Determination:  $R^2 = 0.997476$

Calibration curve:  $-0.00874416 * x^2 + 3.37255 * x + -0.193713$

Response type: Internal Std ( Ref 49 ), Area \* ( IS Conc. / IS Area )

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

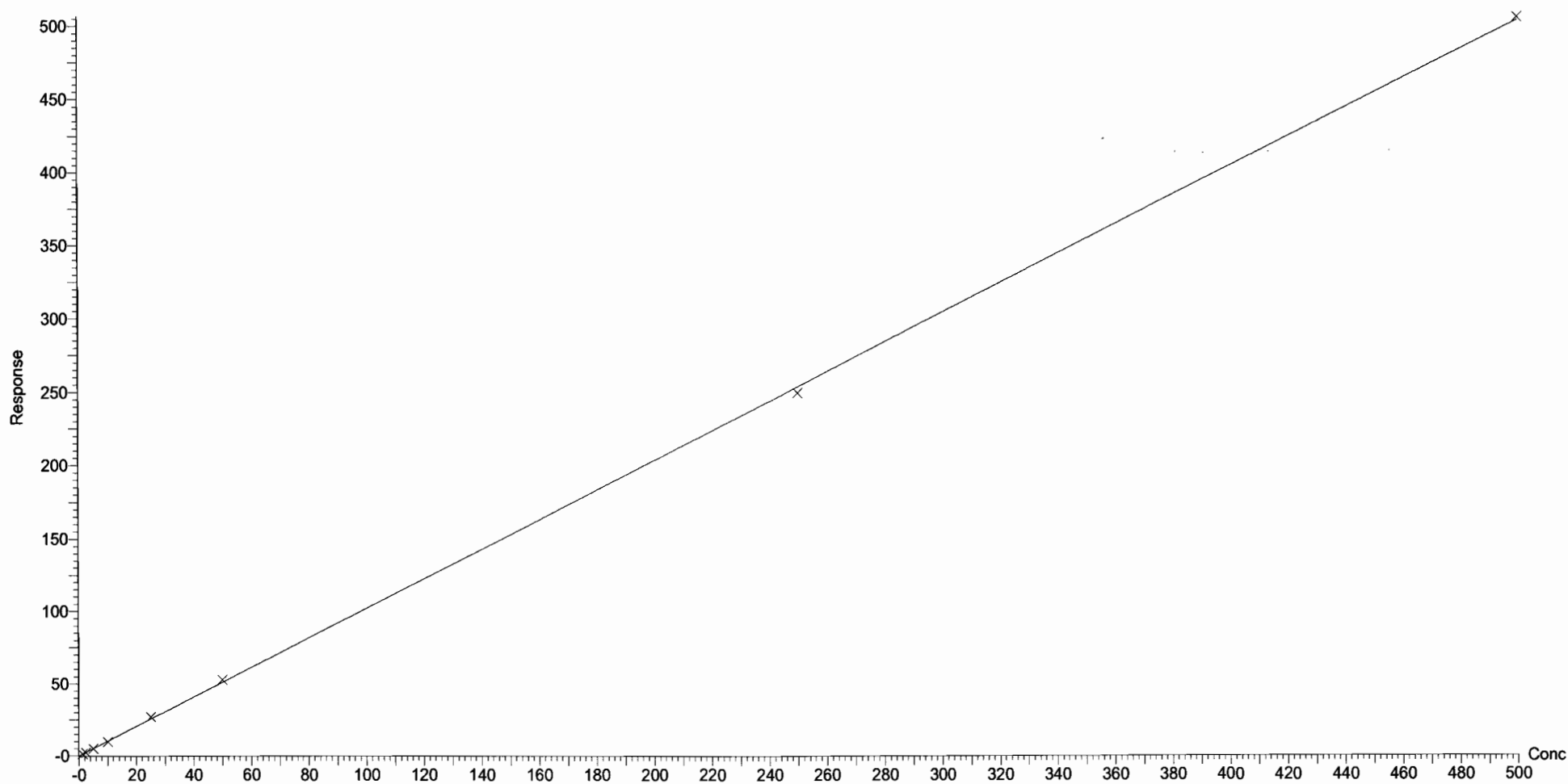


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

Compound name: N-EtFOSA  
Coefficient of Determination:  $R^2 = 0.999640$   
Calibration curve:  $-2.4844e-005 * x^2 + 1.02224 * x + -0.049377$   
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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

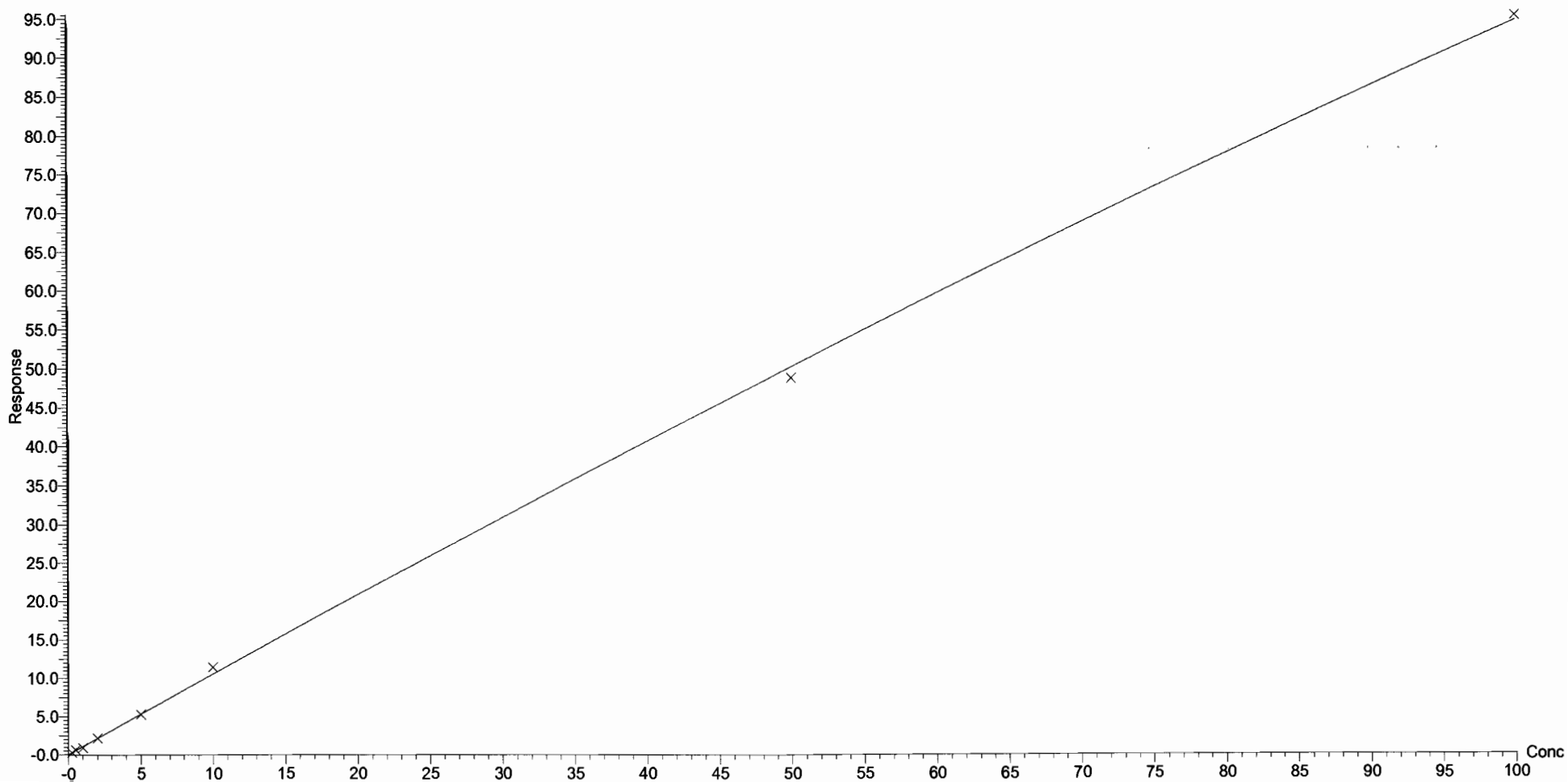
Compound name: PFHxDA

Coefficient of Determination:  $R^2 = 0.998895$

Calibration curve:  $-0.00112888 * x^2 + 1.06189 * x + 0.0169353$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

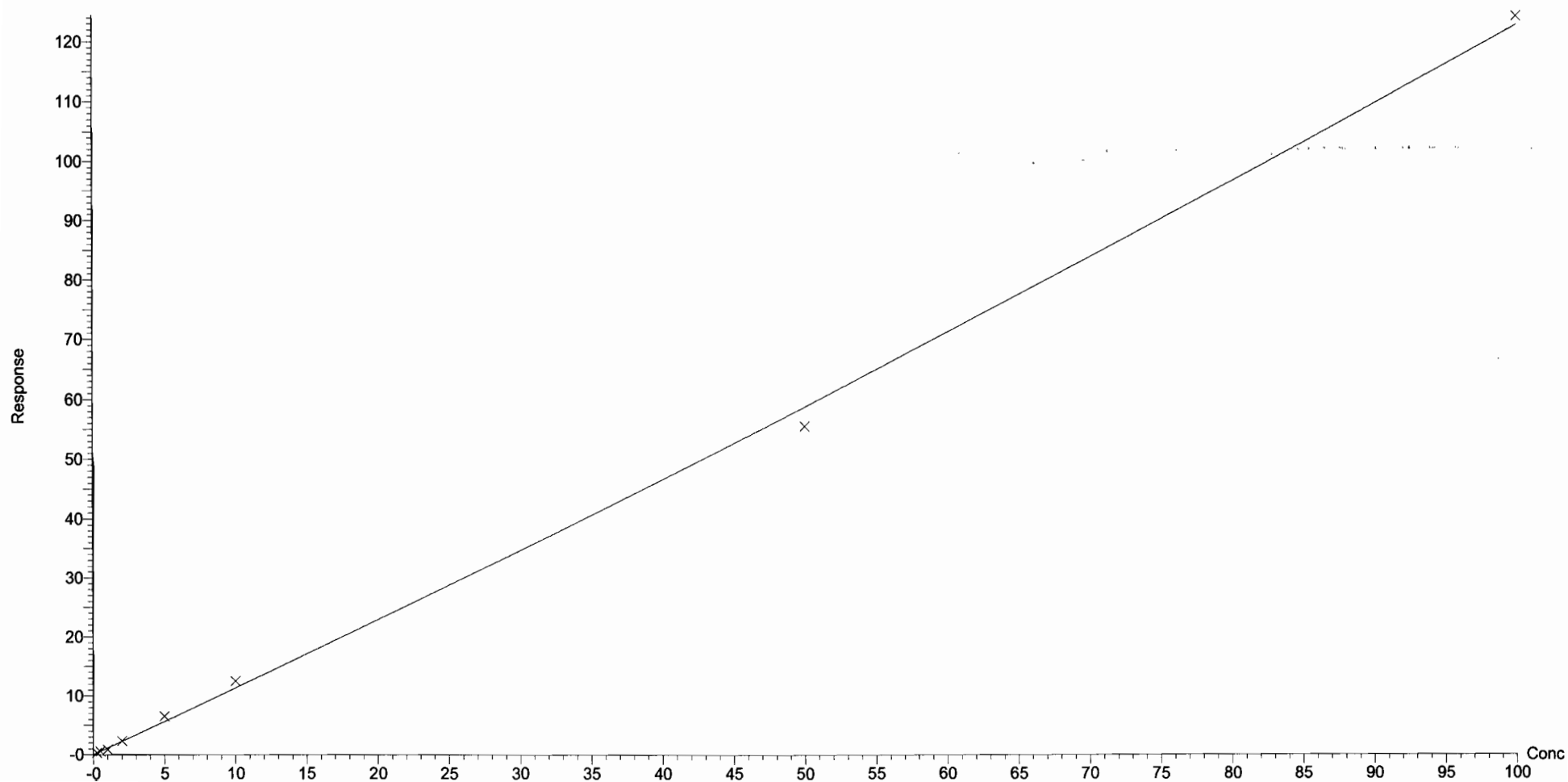
Compound name: PFODA

Coefficient of Determination:  $R^2 = 0.997481$

Calibration curve:  $0.00107929 * x^2 + 1.12186 * x + -0.011842$

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\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

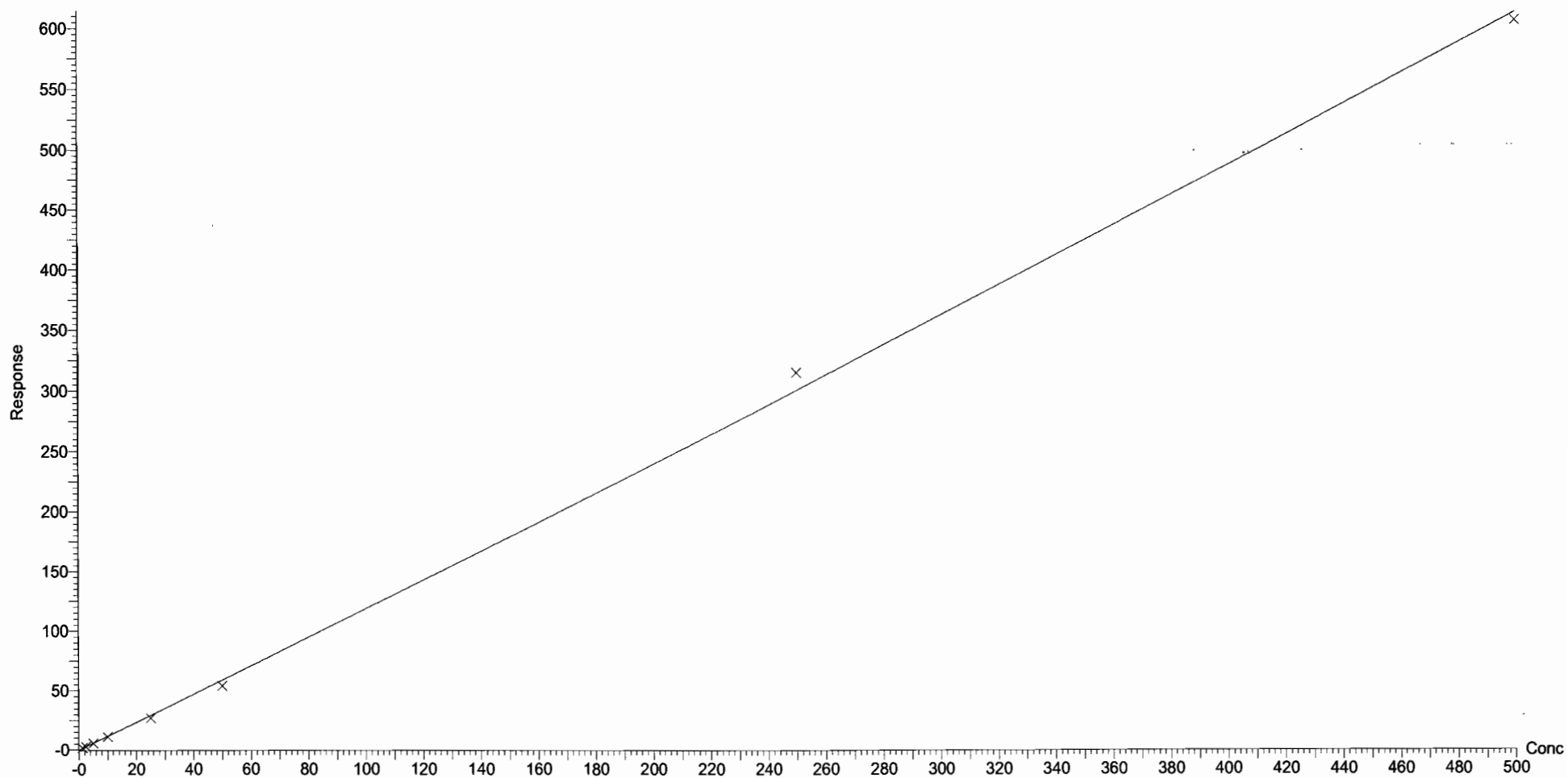
Compound name: N-MeFOSE

Coefficient of Determination:  $R^2 = 0.998506$

Calibration curve:  $0.000105341 * x^2 + 1.17709 * x + -0.269877$

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

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



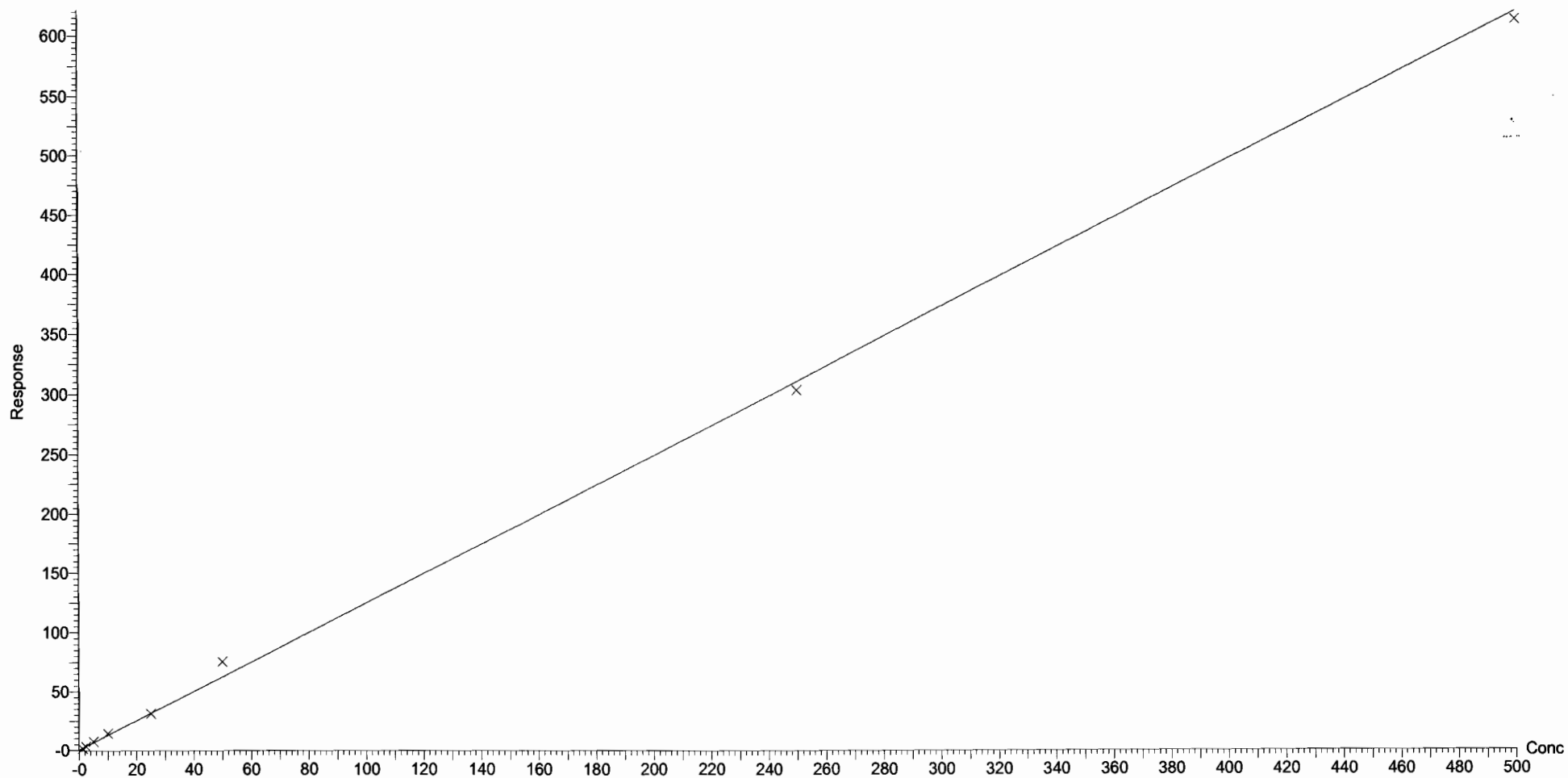


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:39:35 Pacific Standard Time

Compound name: N-EtFOSE  
Correlation coefficient:  $r = 0.998320$ ,  $r^2 = 0.996643$   
Calibration curve:  $1.24163 * x + 0.370762$   
Response type: Internal Std ( Ref 53 ), Area \* ( IS Conc. / IS Area )  
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

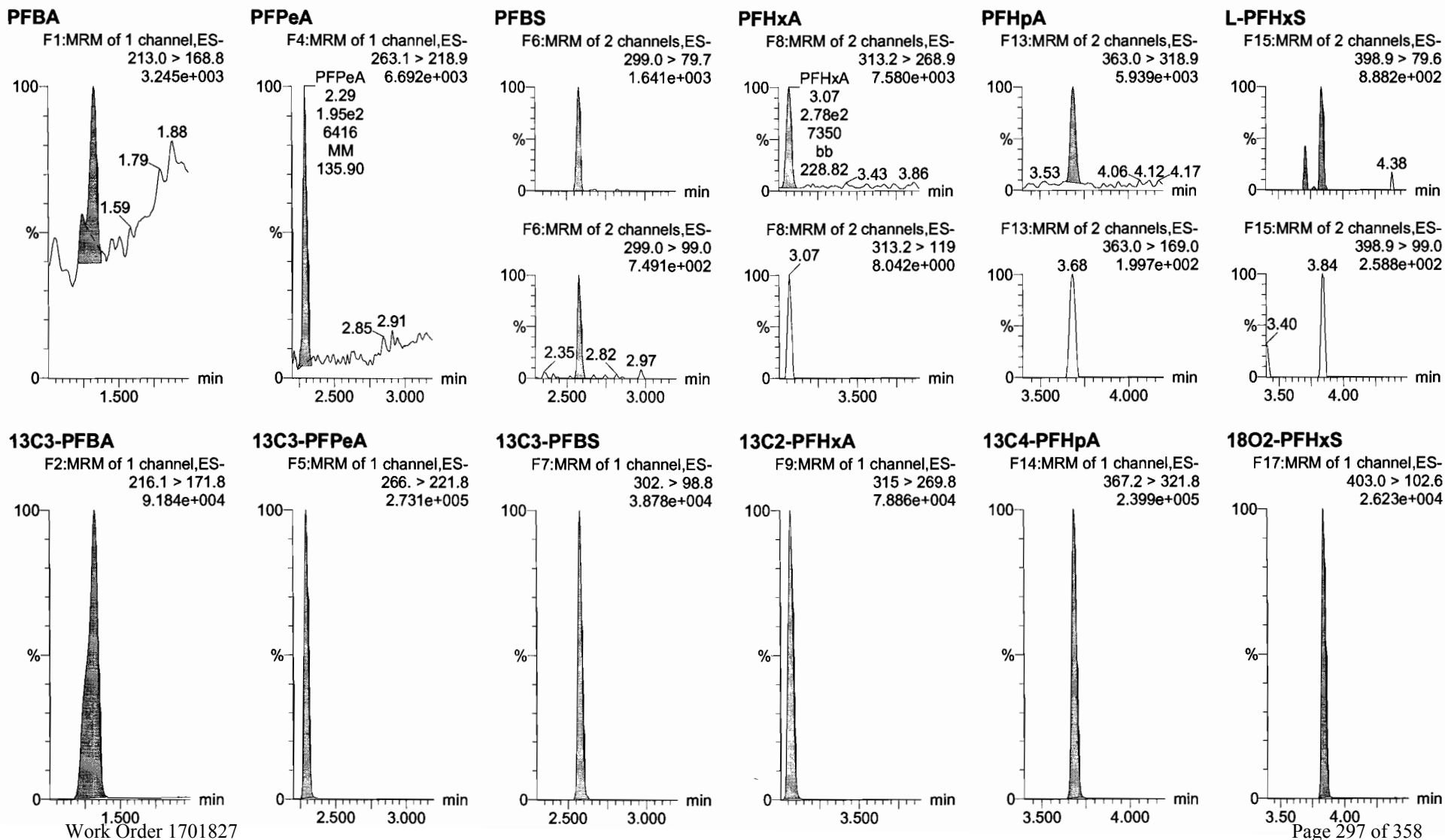


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 10:30:34

Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606



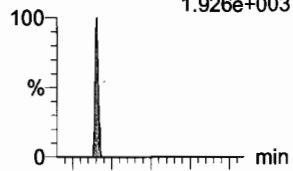
Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

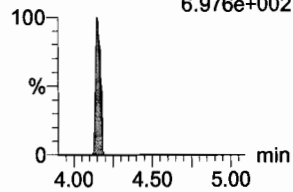
Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.926e+003

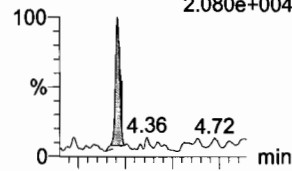


F21:MRM of 2 channels,ES-  
427.1 > 80  
6.976e+002

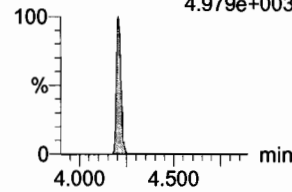


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
2.080e+004

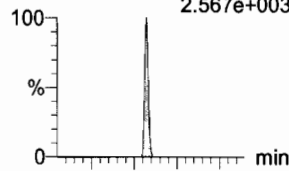


F18:MRM of 2 channels,ES-  
413 > 169  
4.979e+003

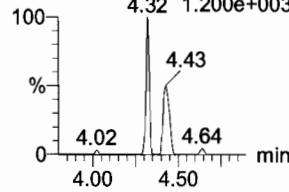


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
2.567e+003

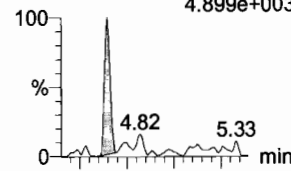


F23:MRM of 2 channels,ES-  
449 > 98.7  
1.200e+003

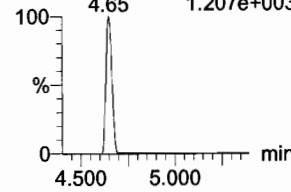


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
4.899e+003

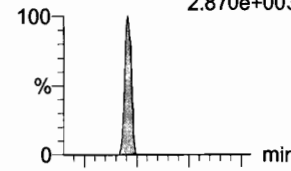


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
1.207e+003

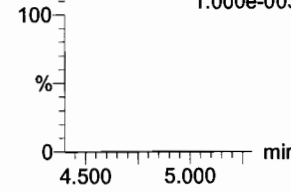


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
2.870e+003

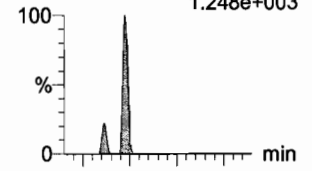


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.000e-003

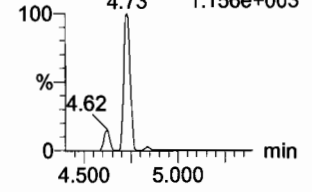


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
1.248e+003

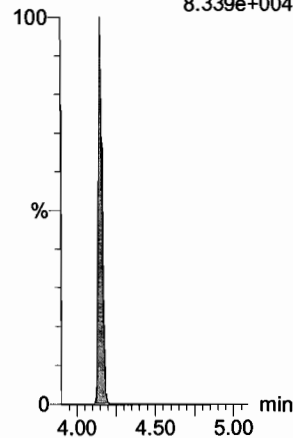


F29:MRM of 2 channels,ES-  
499 > 99  
1.156e+003



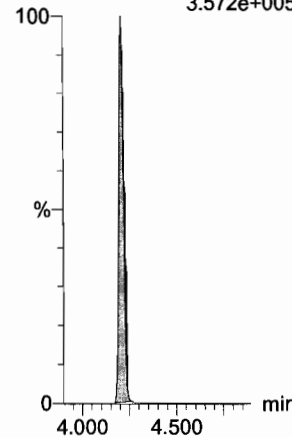
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
8.339e+004



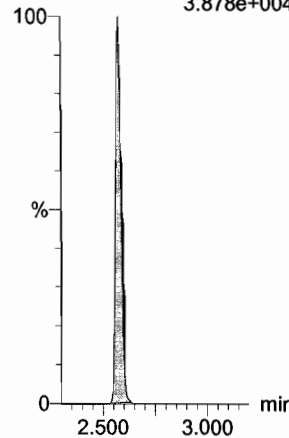
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.572e+005



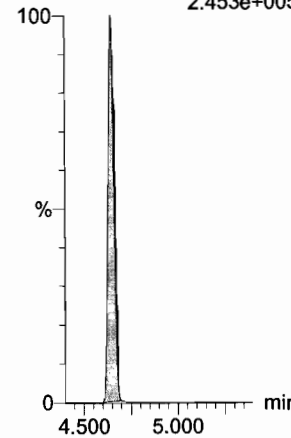
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
3.878e+004



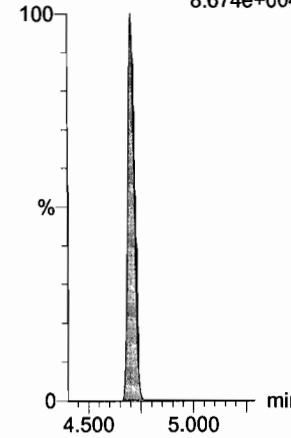
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.453e+005



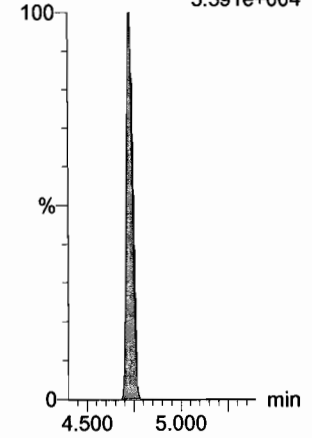
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
8.674e+004



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
5.391e+004



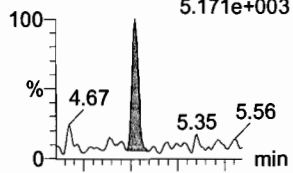
Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

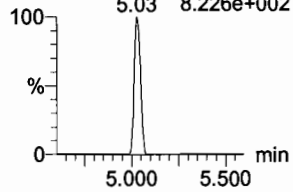
Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
5.171e+003

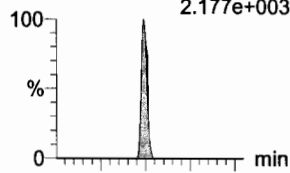


F34:MRM of 2 channels,ES-  
513 > 219  
8.226e+002

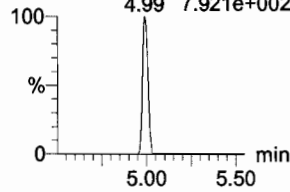


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
2.177e+003

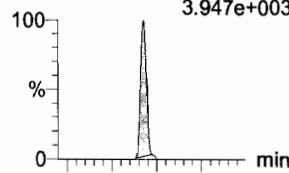


F39:MRM of 2 channels,ES-  
527 > 80  
7.921e+002

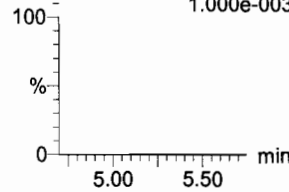


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
3.947e+003

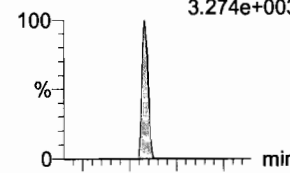


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.000e-003

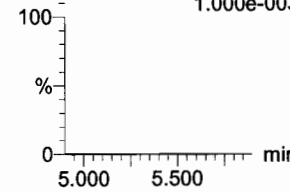


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
3.274e+003

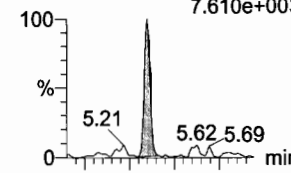


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
1.000e-003

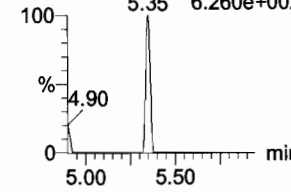


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
7.610e+003

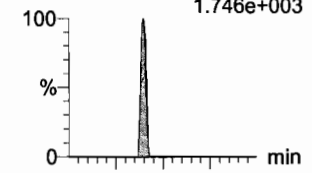


F42:MRM of 2 channels,ES-  
563.0 > 269  
6.260e+002

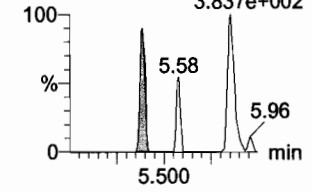


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
1.746e+003

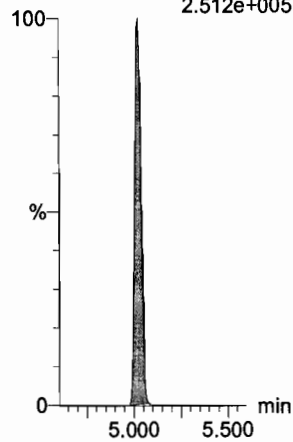


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
3.837e+002



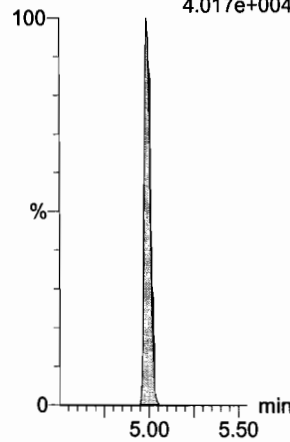
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.512e+005



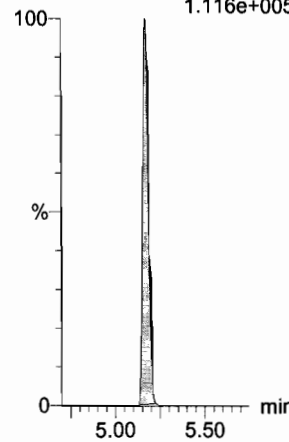
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.017e+004



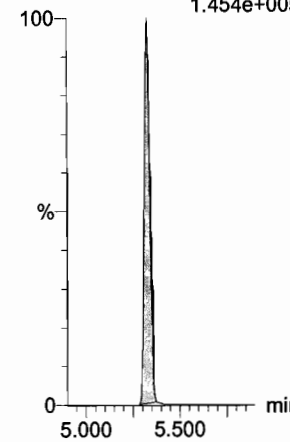
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.116e+005



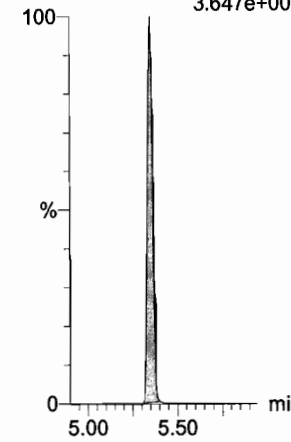
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.454e+005



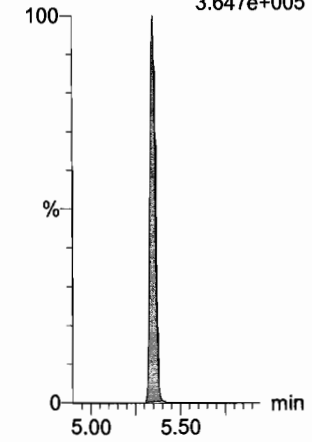
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.647e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.647e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

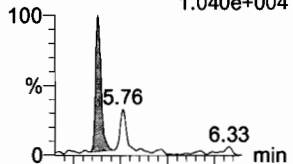
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

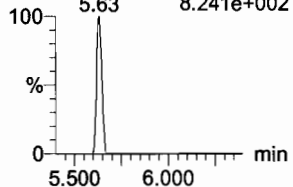
Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

**PFDoA**

F50:MRM of 2 channels,ES-  
612.9 > 569.0  
1.040e+004

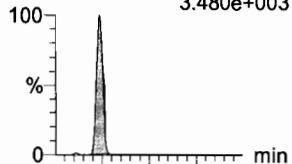


F50:MRM of 2 channels,ES-  
612.9 > 318.8  
8.241e+002

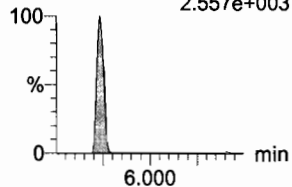


**N-MeFOSA**

F33:MRM of 2 channels,ES-  
512.1 > 168.9  
3.480e+003

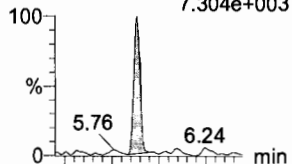


F33:MRM of 2 channels,ES-  
512.1 > 219  
2.557e+003

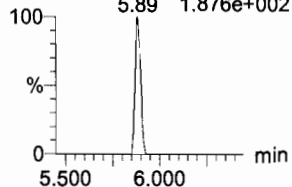


**PFTrDA**

F56:MRM of 2 channels,ES-  
662.9 > 618.9  
7.304e+003

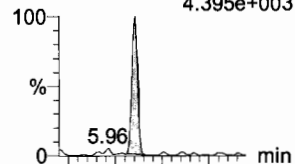


F56:MRM of 2 channels,ES-  
662.9 > 319  
1.876e+002

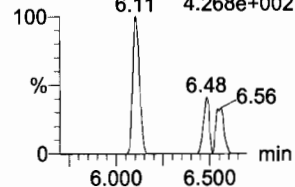


**PFTeDA**

F57:MRM of 2 channels,ES-  
712.9 > 668.8  
4.395e+003

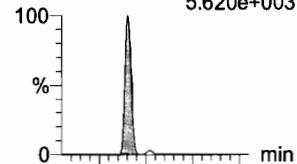


F57:MRM of 2 channels,ES-  
712.9 > 369  
4.268e+002

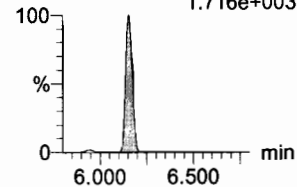


**N-EtFOSA**

F38:MRM of 2 channels,ES-  
526.1 > 168.9  
5.620e+003

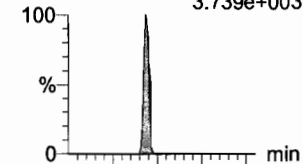


F38:MRM of 2 channels,ES-  
526.1 > 219  
1.716e+003

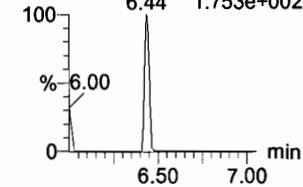


**PFHxDA**

F59:MRM of 2 channels,ES-  
813.1 > 768.6  
3.739e+003

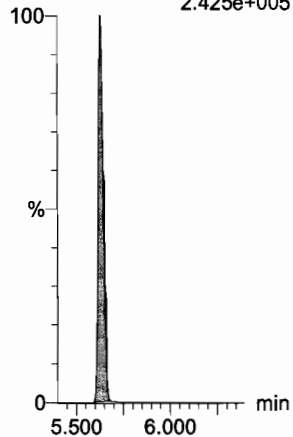


F59:MRM of 2 channels,ES-  
813.1 > 219  
1.753e+002



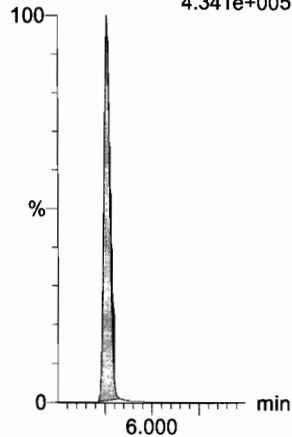
**13C2-PFDoA**

F51:MRM of 1 channel,ES-  
615.0 > 569.7  
2.425e+005



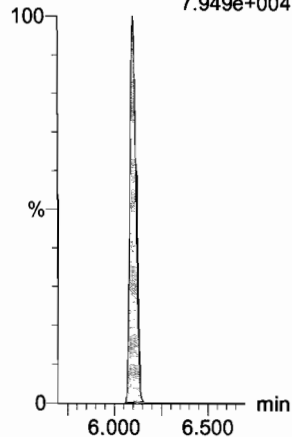
**d3-N-MeFOSA**

F36:MRM of 1 channel,ES-  
515.2 > 168.9  
4.341e+005



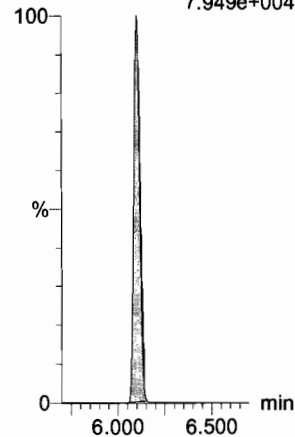
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
7.949e+004



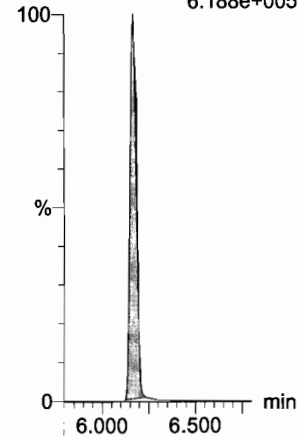
**13C2-PFTeDA**

F58:MRM of 2 channels,ES-  
714.8 > 669.6  
7.949e+004



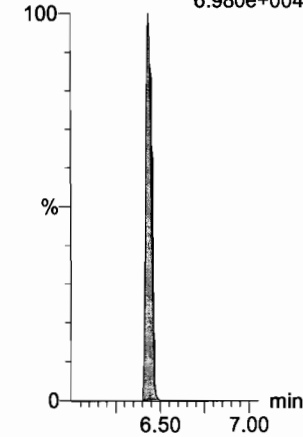
**d5-N-ETFOSA**

F41:MRM of 1 channel,ES-  
531.1 > 168.9  
6.188e+005



**13C2-PFHxDA**

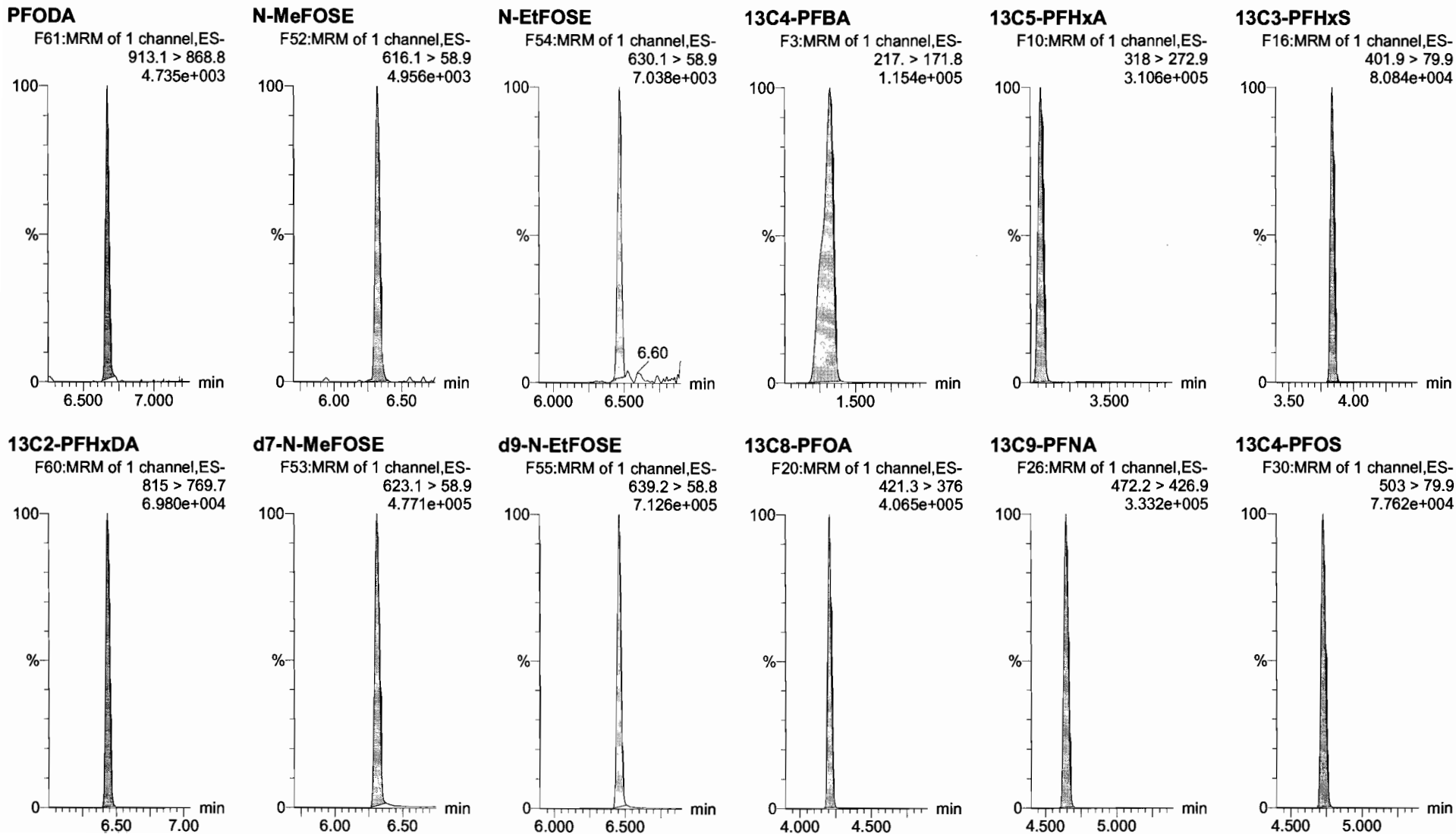
F60:MRM of 1 channel,ES-  
815 > 769.7  
6.980e+004



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

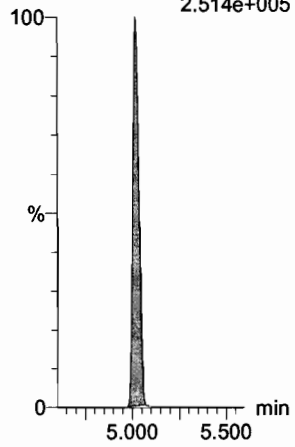
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

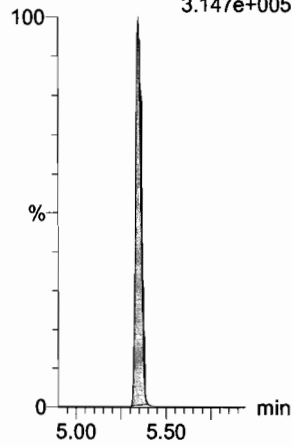
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.514e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.147e+005

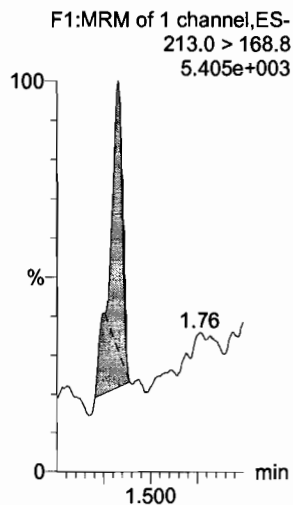


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

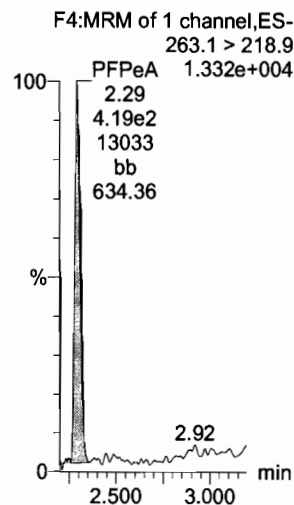
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_3, Date: 02-Jan-2018, Time: 15:46:59, ID: ST180102M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

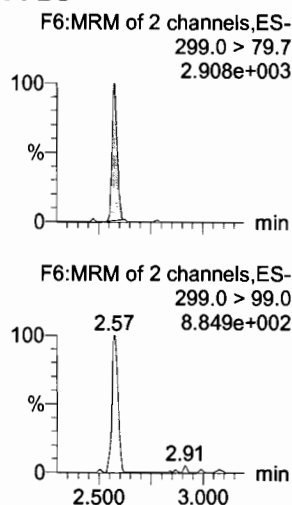
**PFBA**



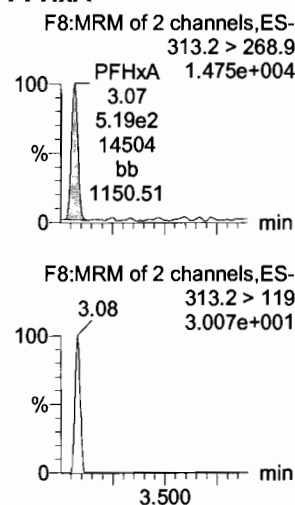
**PFPeA**



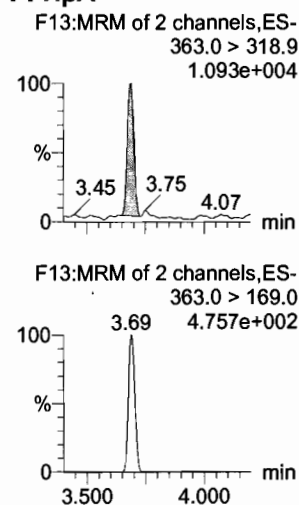
**PFBS**



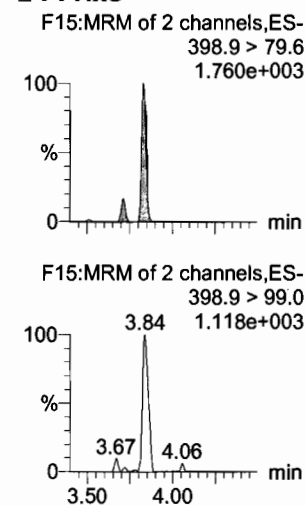
**PFHxA**



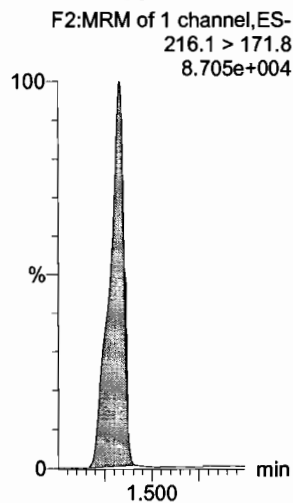
**PFHpA**



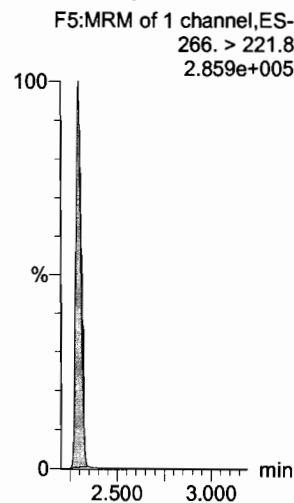
**L-PFHxS**



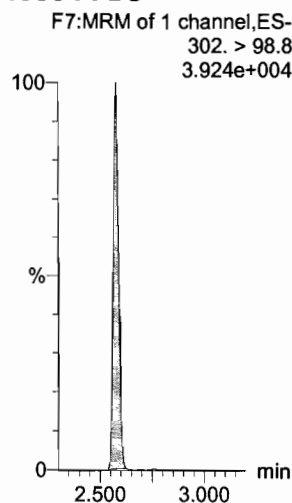
**13C3-PFBA**



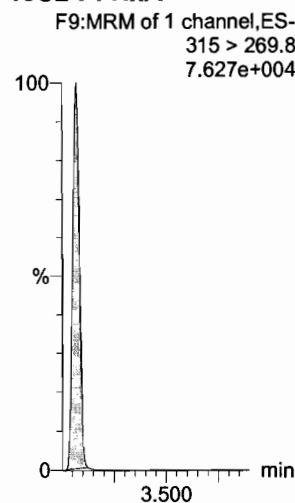
**13C3-PFPeA**



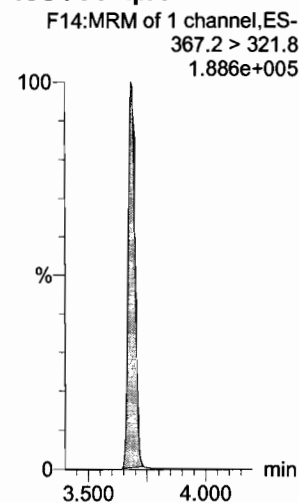
**13C3-PFBS**



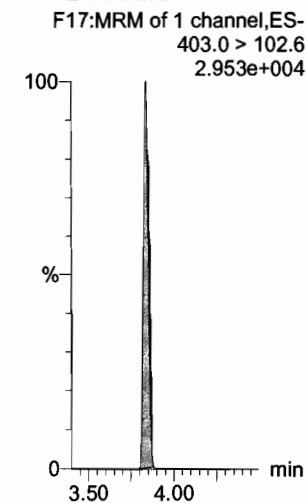
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**

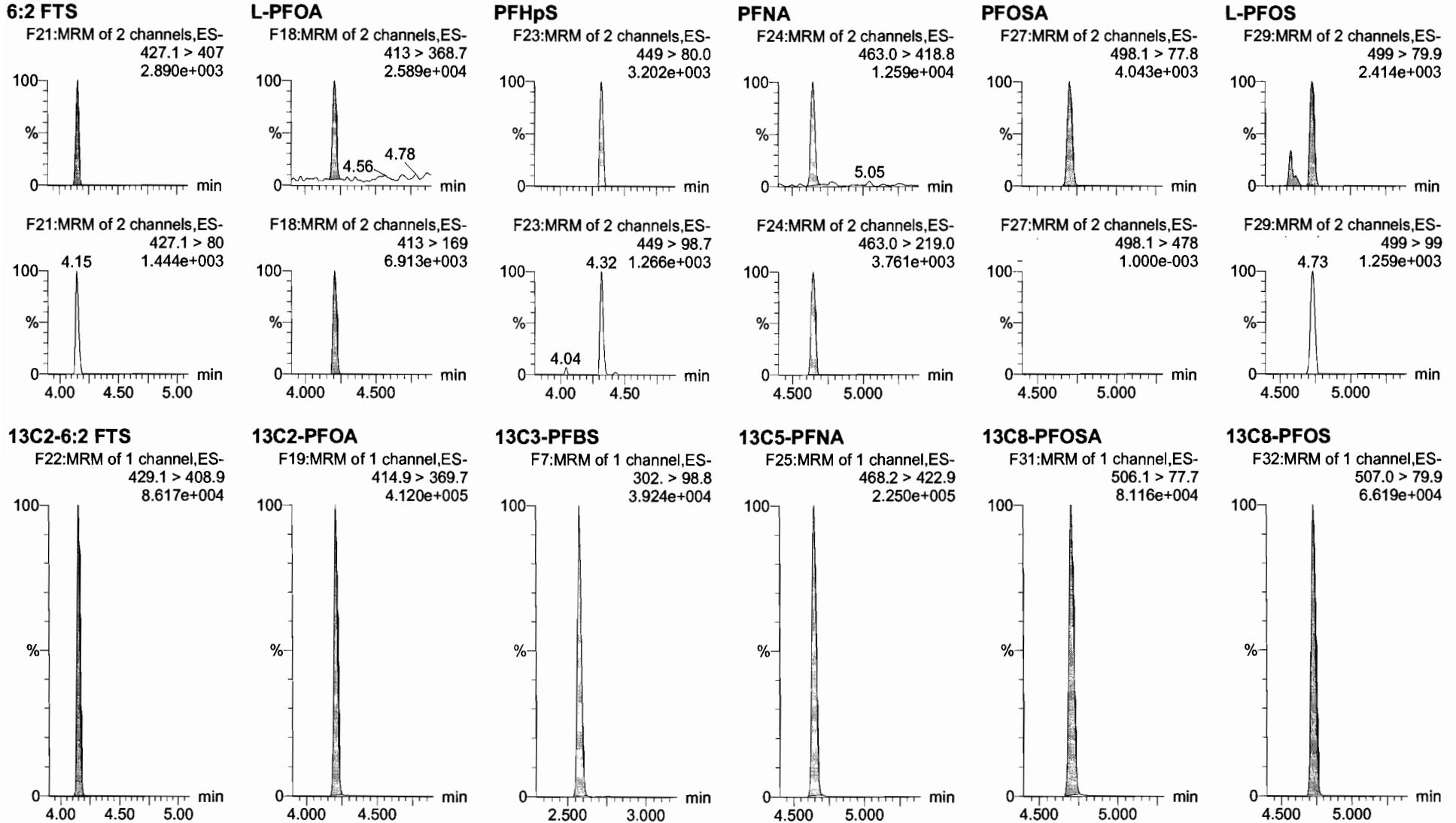




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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

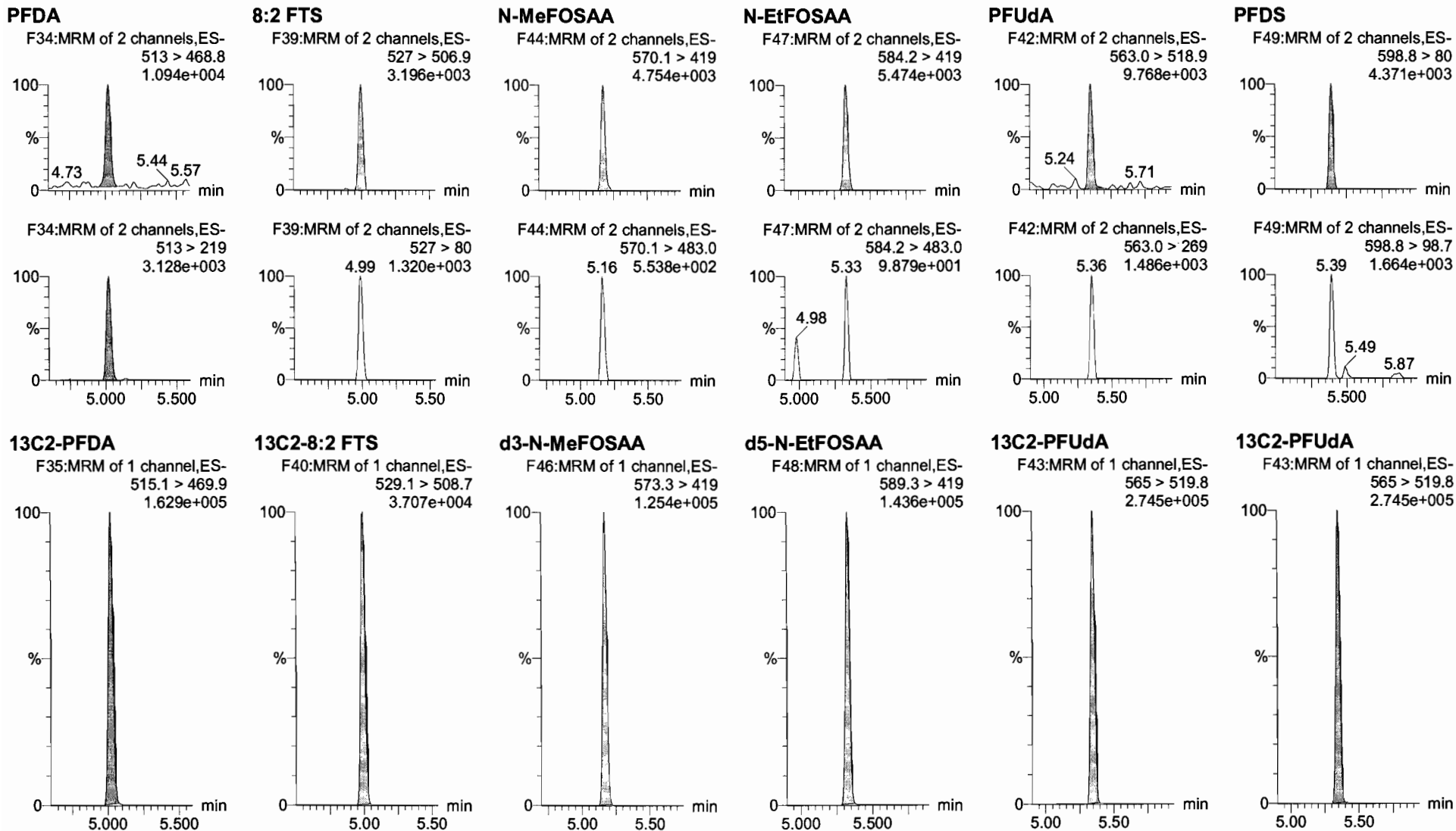
Name: 180102M2\_3, Date: 02-Jan-2018, Time: 15:46:59, ID: ST180102M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607



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Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

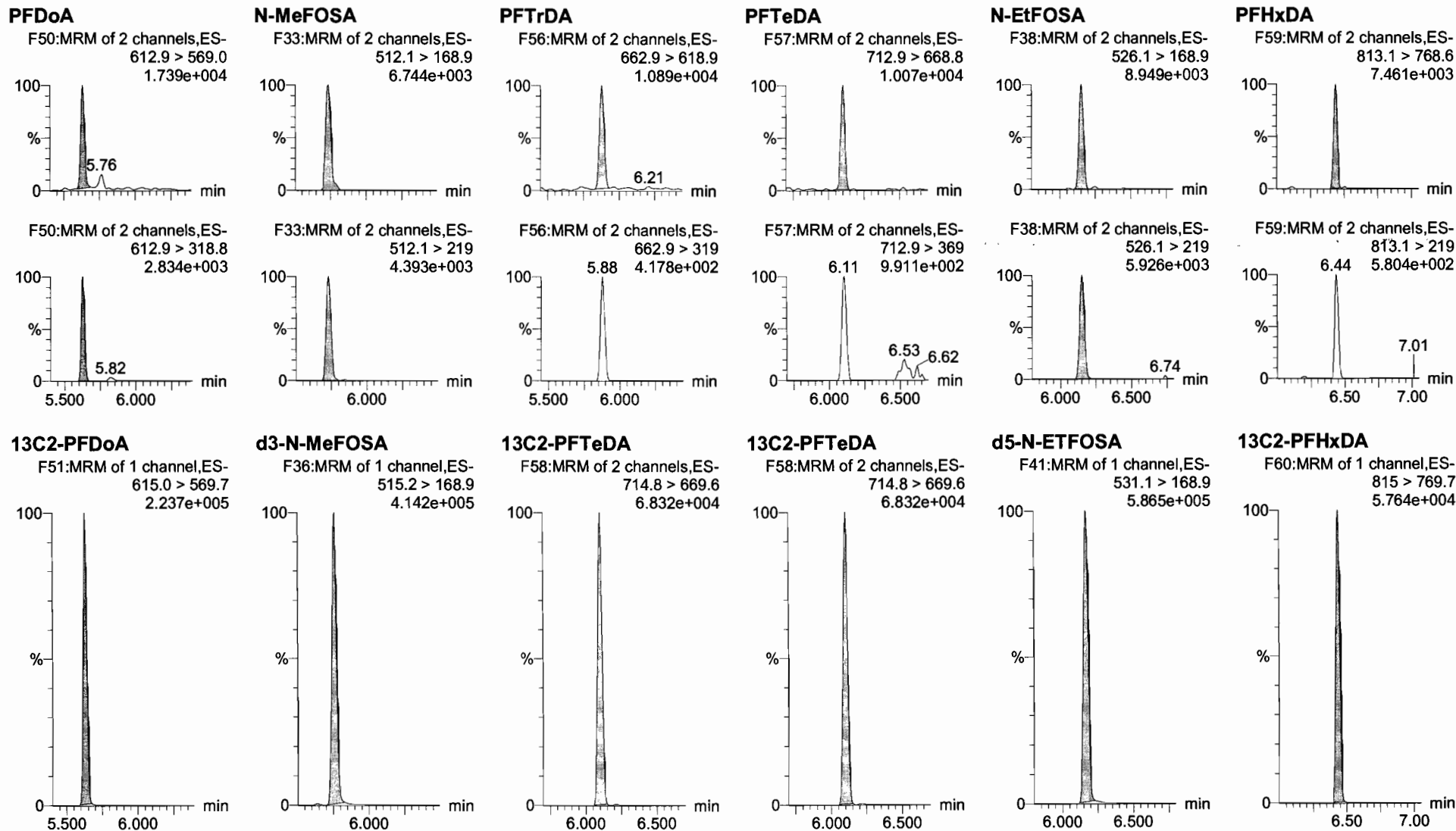
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Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

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Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

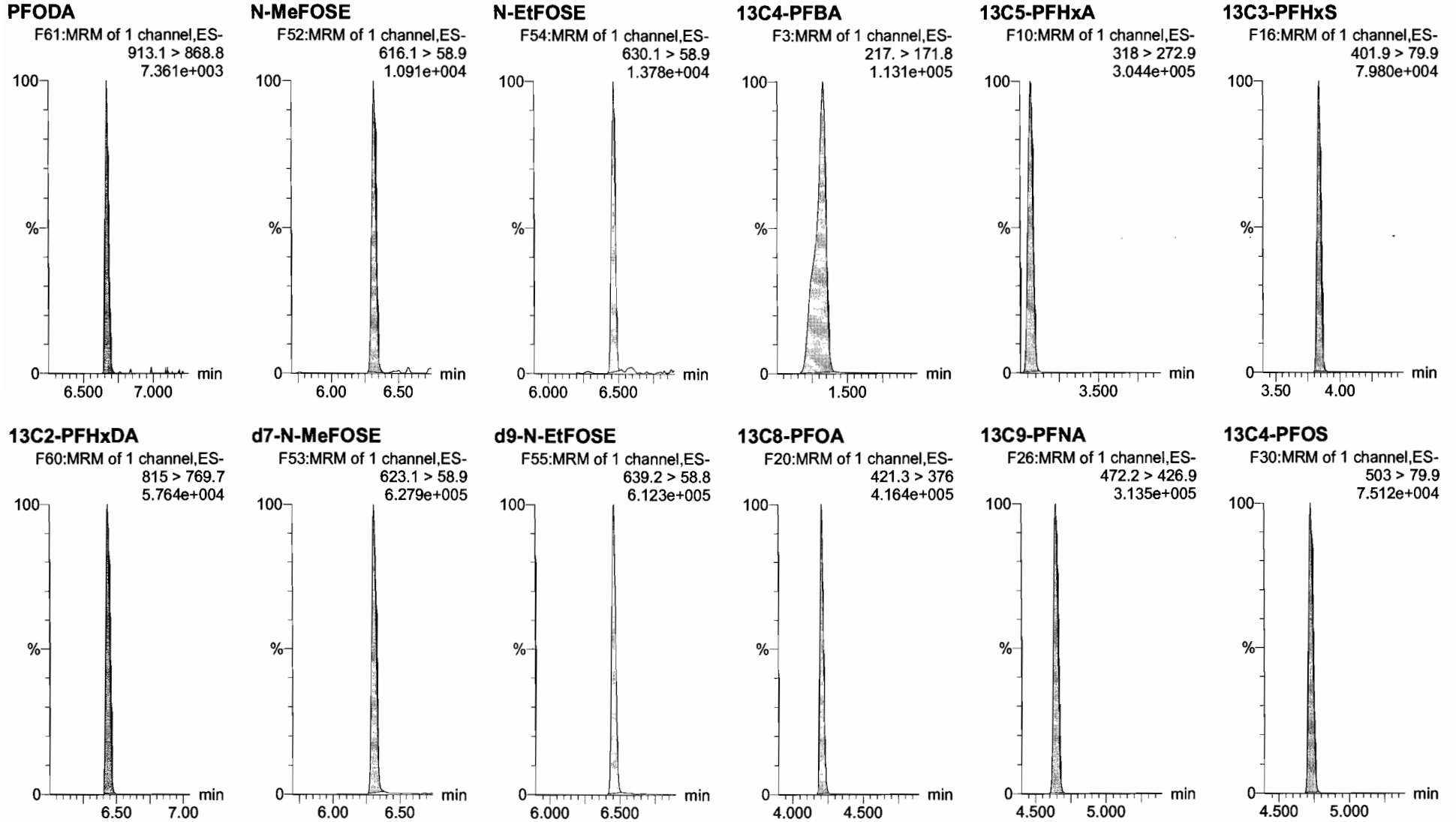
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Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_3, Date: 02-Jan-2018, Time: 15:46:59, ID: ST180102M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

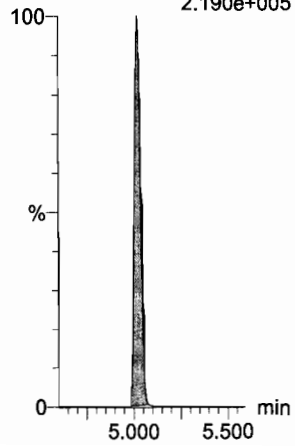
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Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

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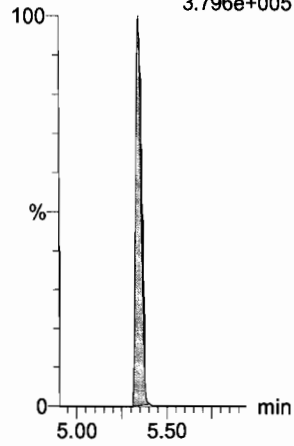
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.190e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.796e+005

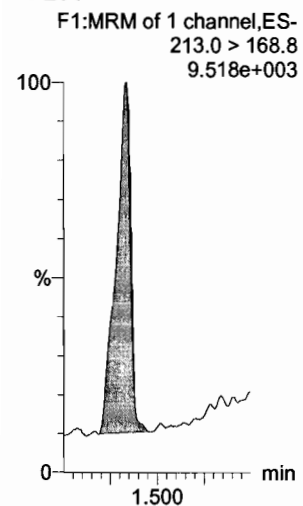


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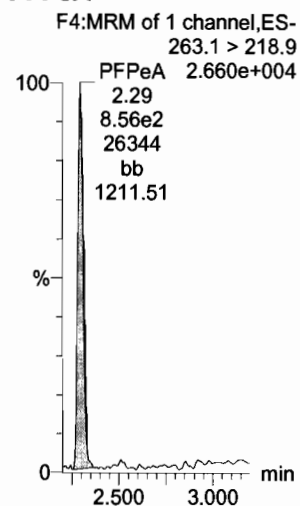
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_4, Date: 02-Jan-2018, Time: 15:58:11, ID: ST180102M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608

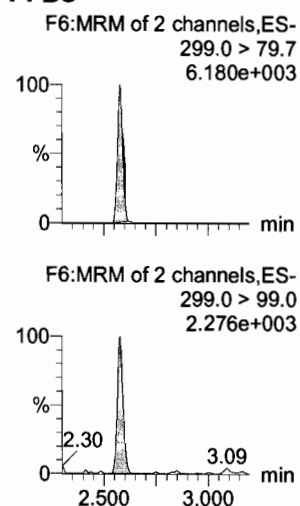
**PFBA**



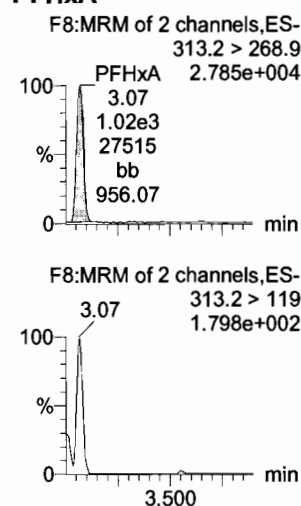
**PFPeA**



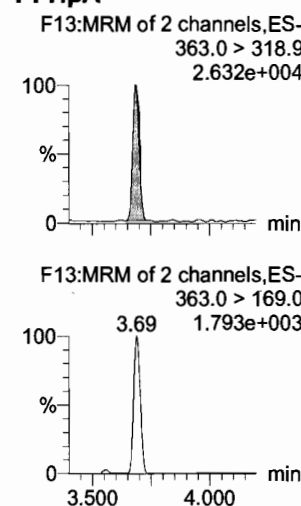
**PFBS**



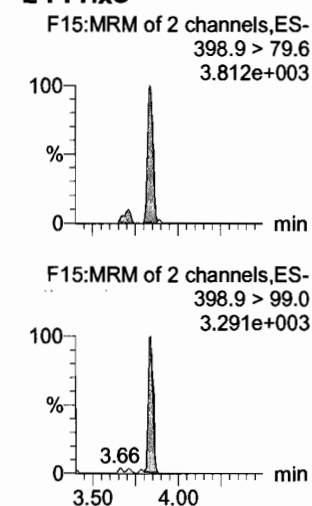
**PFHxA**



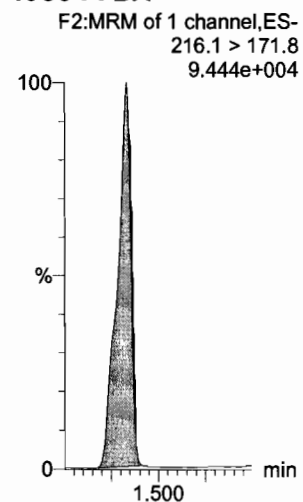
**PFHpA**



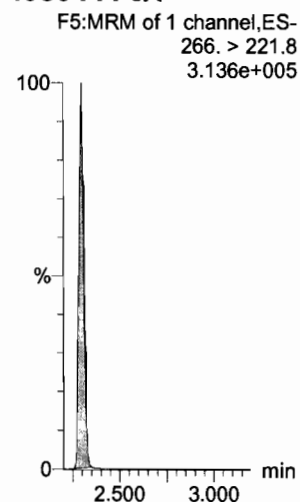
**L-PFHxS**



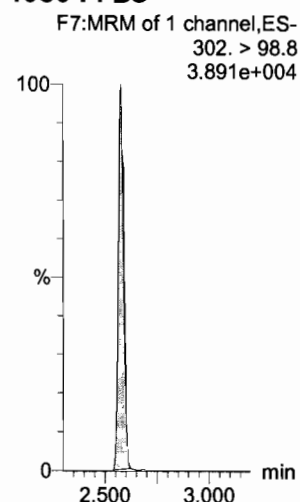
**13C3-PFBA**



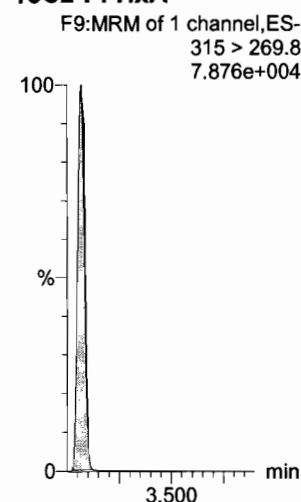
**13C3-PFPeA**



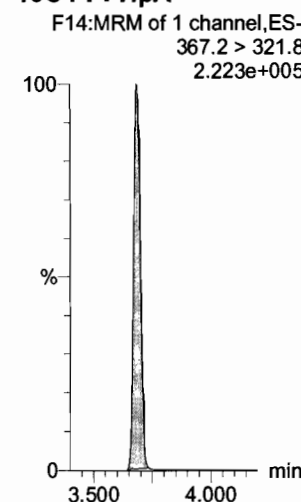
**13C3-PFBS**



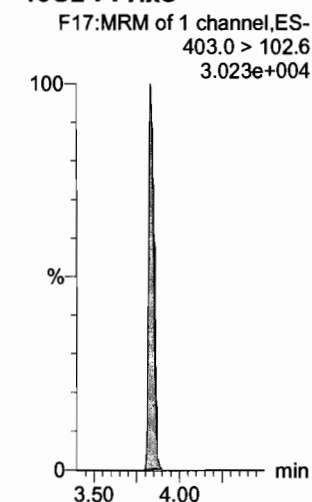
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**



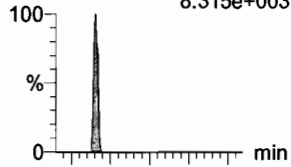
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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

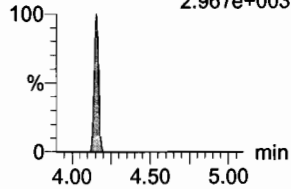
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**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
8.315e+003

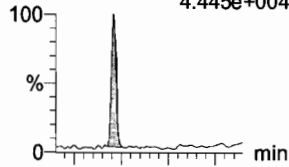


F21:MRM of 2 channels,ES-  
427.1 > 80  
2.967e+003

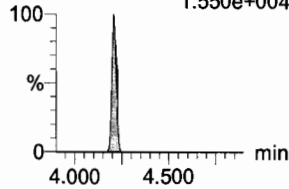


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.445e+004

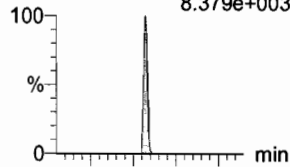


F18:MRM of 2 channels,ES-  
413 > 169  
1.550e+004

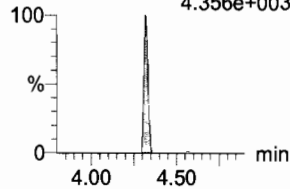


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
8.379e+003

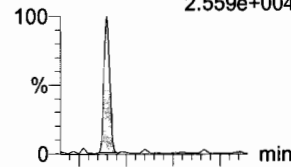


F23:MRM of 2 channels,ES-  
449 > 98.7  
4.356e+003

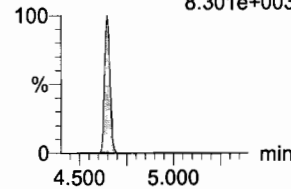


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
2.559e+004

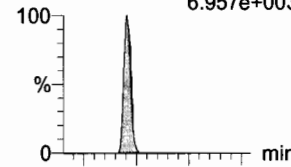


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
8.301e+003

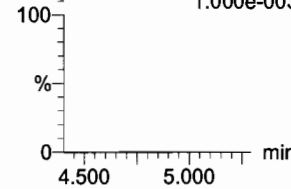


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
6.957e+003

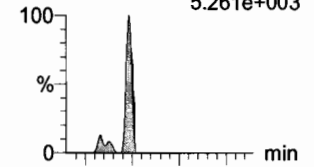


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.000e-003

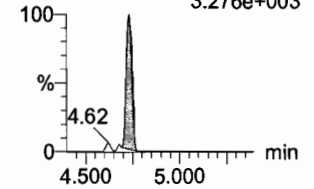


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
5.261e+003

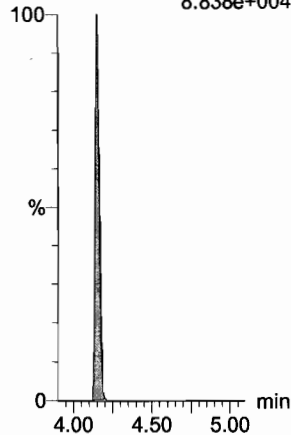


F29:MRM of 2 channels,ES-  
499 > 99  
3.276e+003



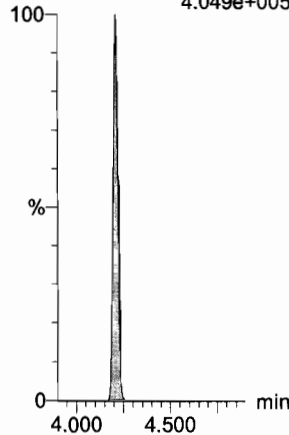
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
8.838e+004



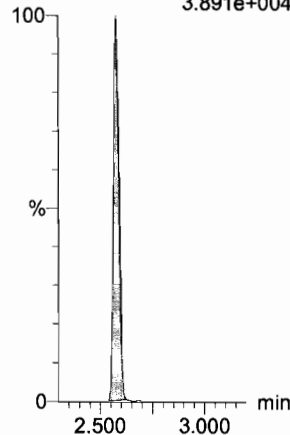
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.049e+005



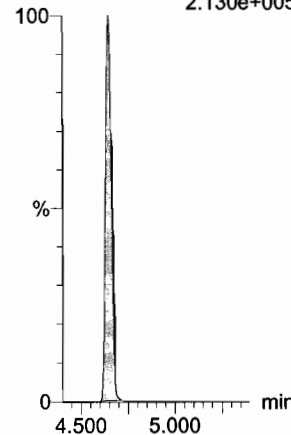
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
3.891e+004



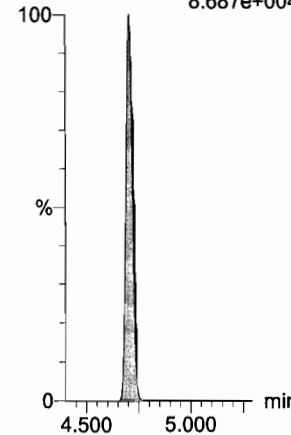
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.130e+005



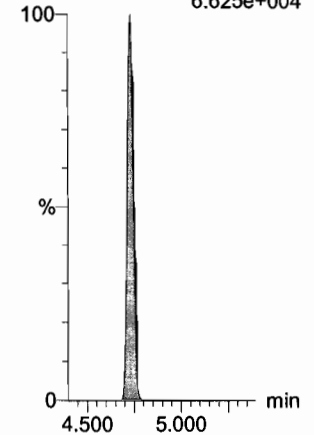
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
8.687e+004



**13C8-PFOS**

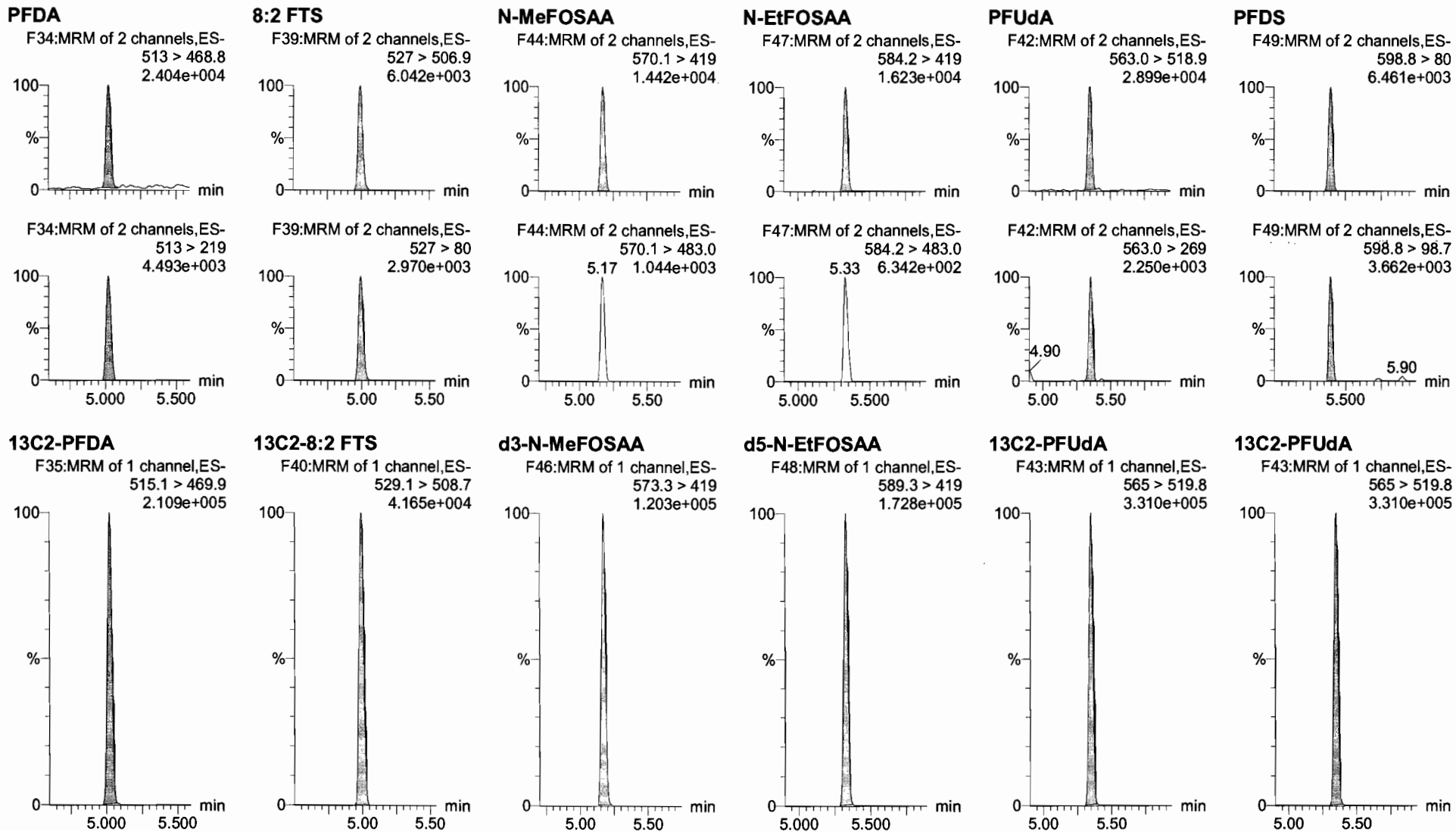
F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.625e+004



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
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Name: 180102M2\_4, Date: 02-Jan-2018, Time: 15:58:11, ID: ST180102M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608



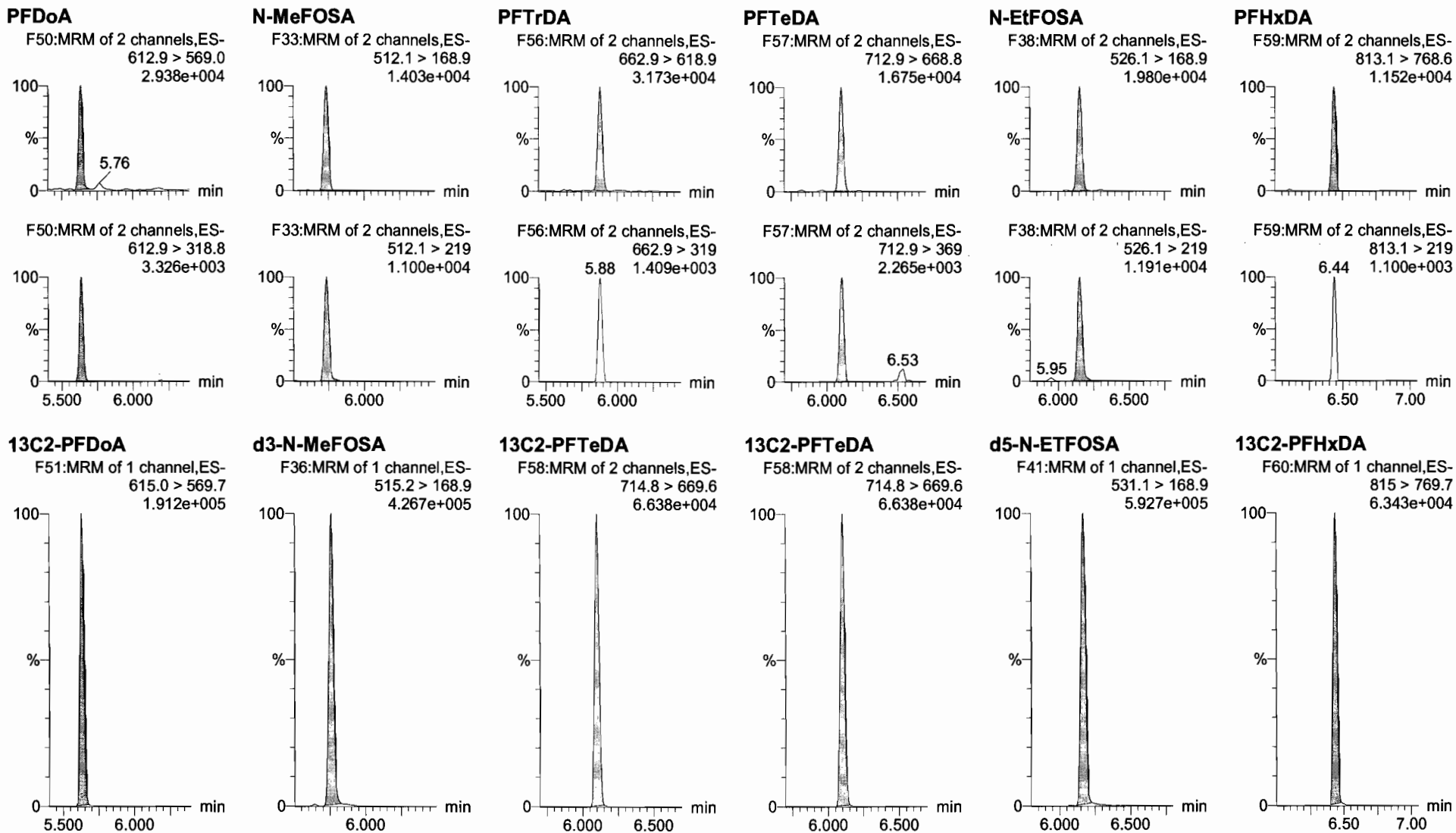


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_4, Date: 02-Jan-2018, Time: 15:58:11, ID: ST180102M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

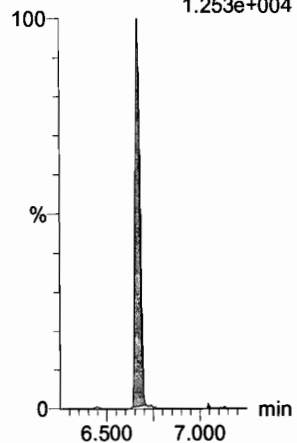
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_4, Date: 02-Jan-2018, Time: 15:58:11, ID: ST180102M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608

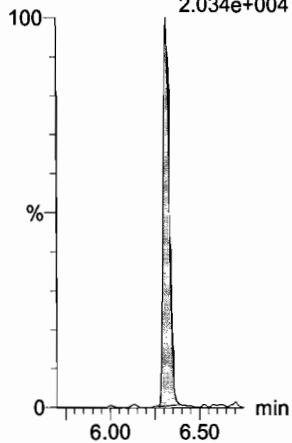
**PFODA**

F61:MRM of 1 channel,ES-  
913.1 > 868.8  
1.253e+004



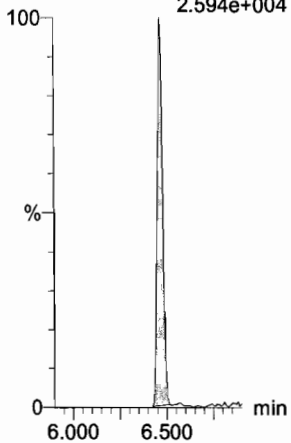
**N-MeFOSE**

F52:MRM of 1 channel,ES-  
616.1 > 58.9  
2.034e+004



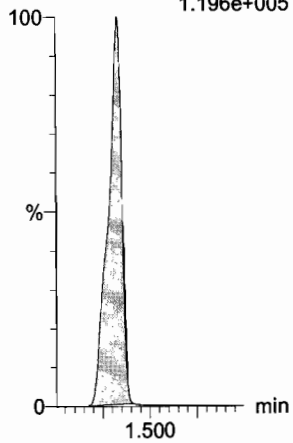
**N-EtFOSE**

F54:MRM of 1 channel,ES-  
630.1 > 58.9  
2.594e+004



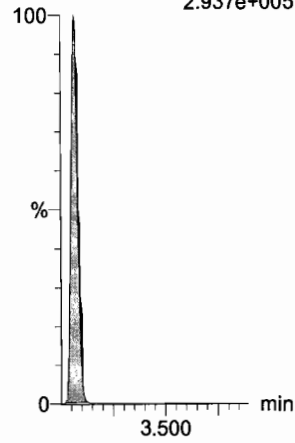
**13C4-PFBA**

F3:MRM of 1 channel,ES-  
217. > 171.8  
1.196e+005



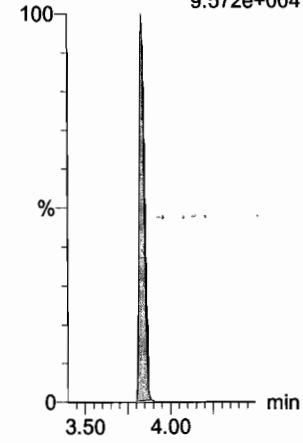
**13C5-PFHxA**

F10:MRM of 1 channel,ES-  
318 > 272.9  
2.937e+005



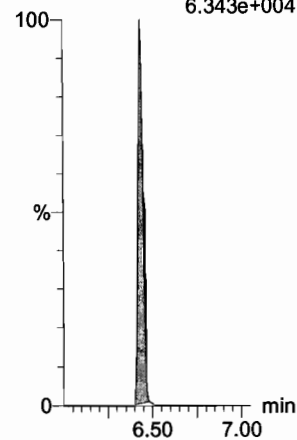
**13C3-PFHxS**

F16:MRM of 1 channel,ES-  
401.9 > 79.9  
9.572e+004



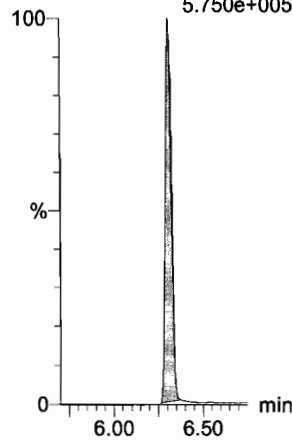
**13C2-PFHxDA**

F60:MRM of 1 channel,ES-  
815 > 769.7  
6.343e+004



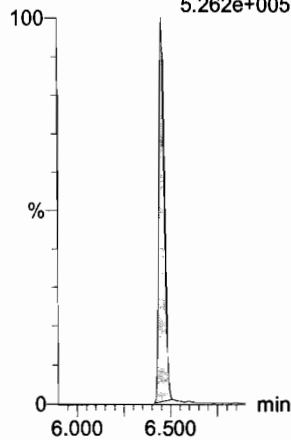
**d7-N-MeFOSE**

F53:MRM of 1 channel,ES-  
623.1 > 58.9  
5.750e+005



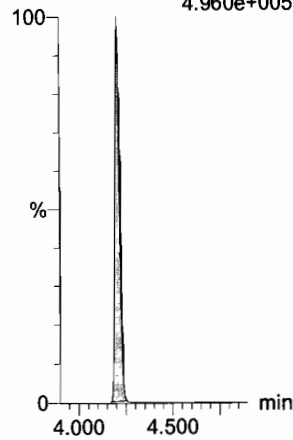
**d9-N-EtFOSE**

F55:MRM of 1 channel,ES-  
639.2 > 58.8  
5.262e+005



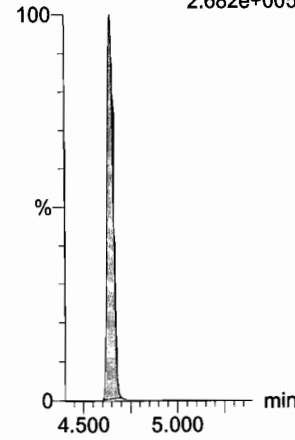
**13C8-PFOA**

F20:MRM of 1 channel,ES-  
421.3 > 376  
4.960e+005



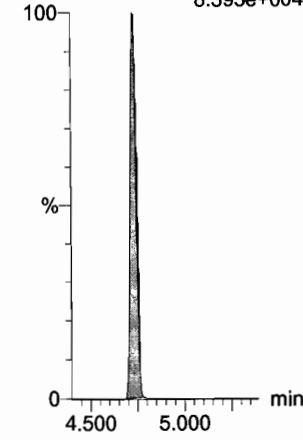
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
2.682e+005



**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
8.393e+004



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

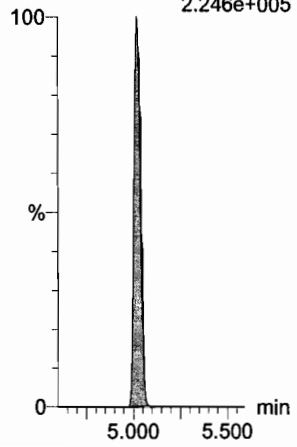
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_4, Date: 02-Jan-2018, Time: 15:58:11, ID: ST180102M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608

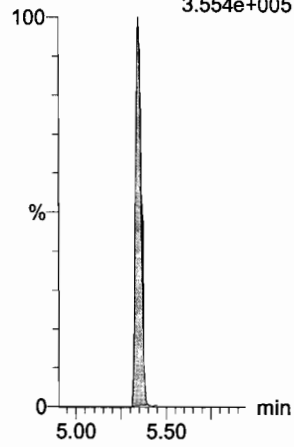
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.246e+005



13C7-PFUdA

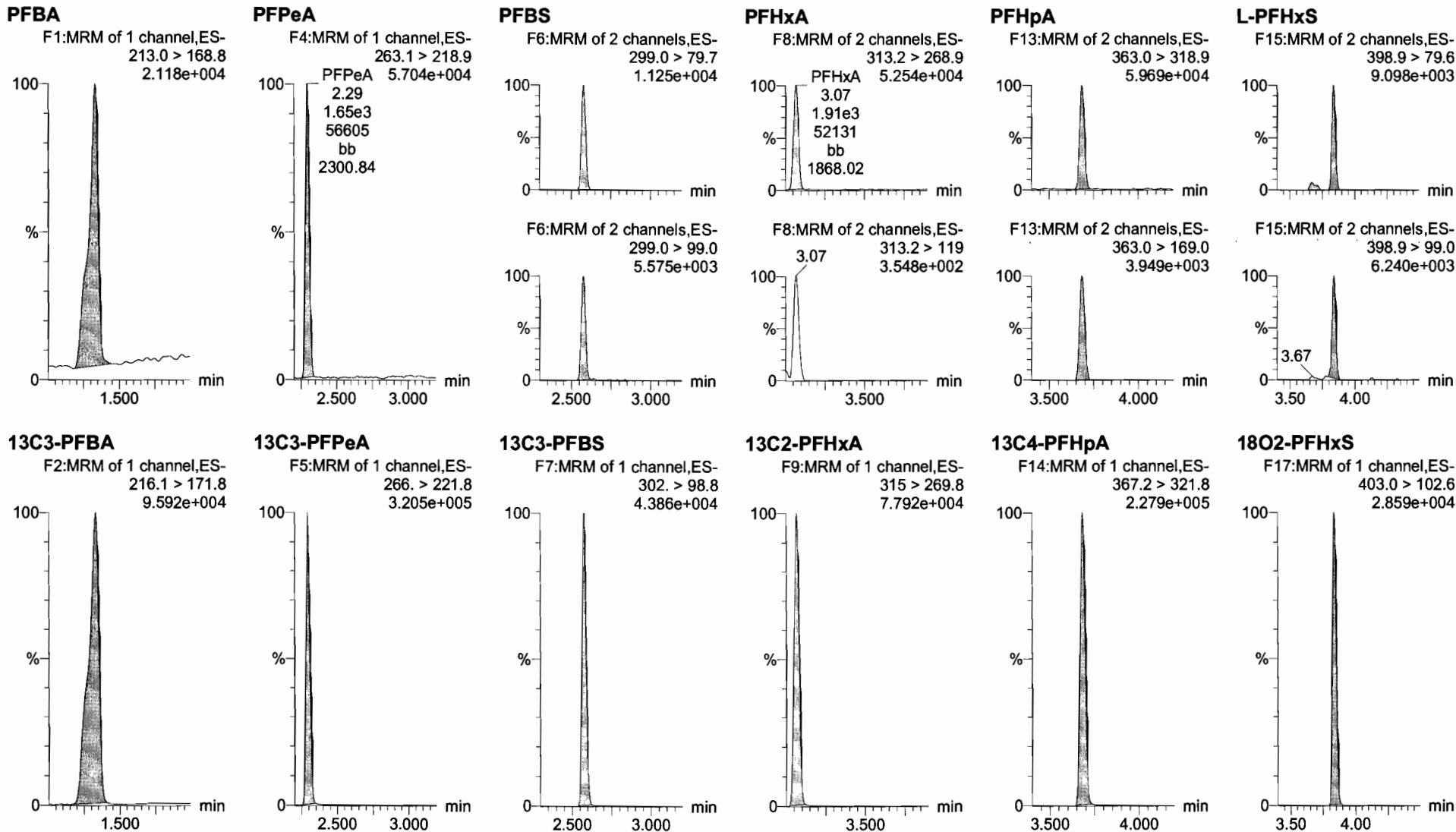
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.554e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_5, Date: 02-Jan-2018, Time: 16:09:21, ID: ST180102M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

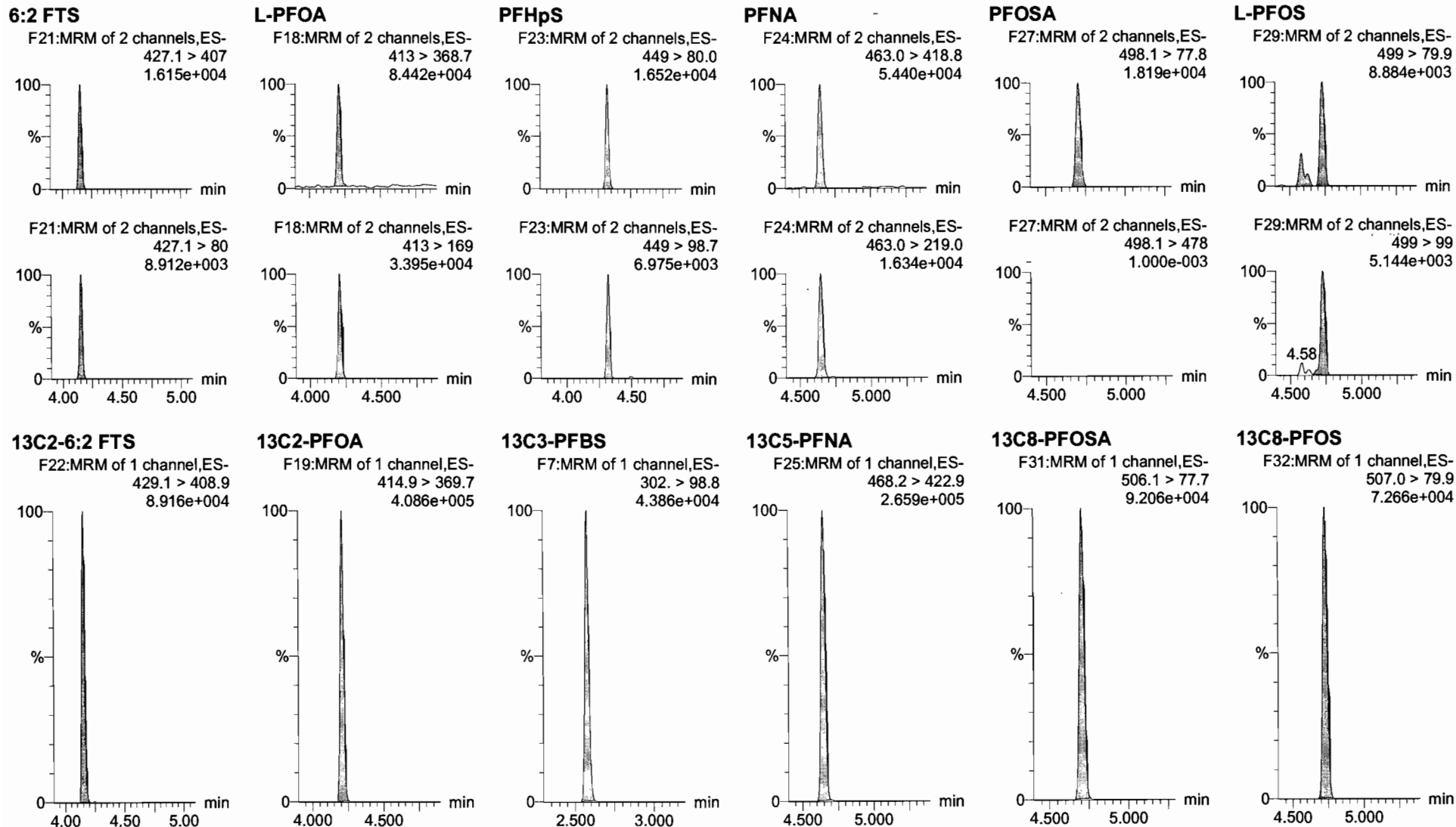


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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

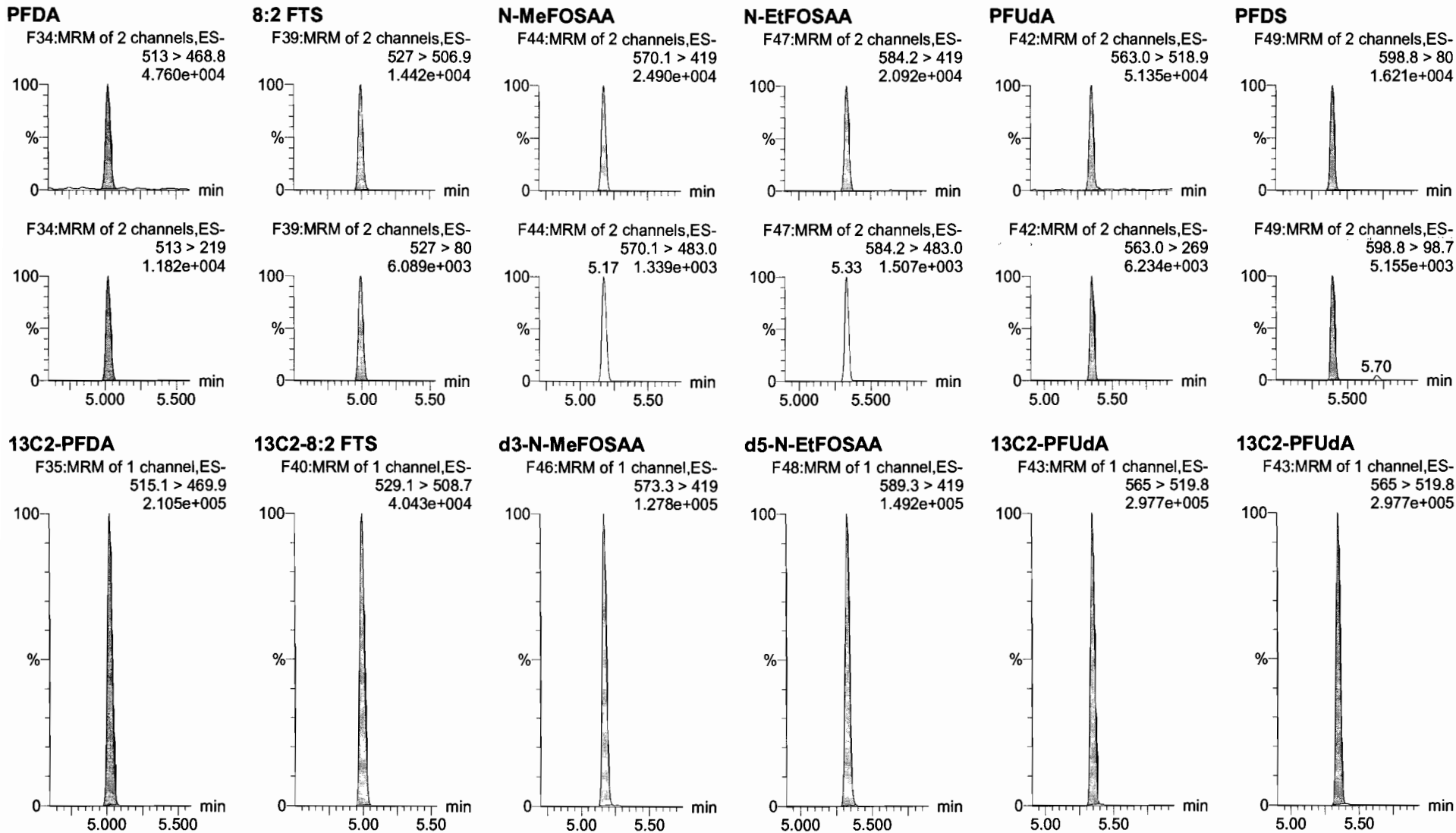
Name: 180102M2\_5, Date: 02-Jan-2018, Time: 16:09:21, ID: ST180102M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_5, Date: 02-Jan-2018, Time: 16:09:21, ID: ST180102M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

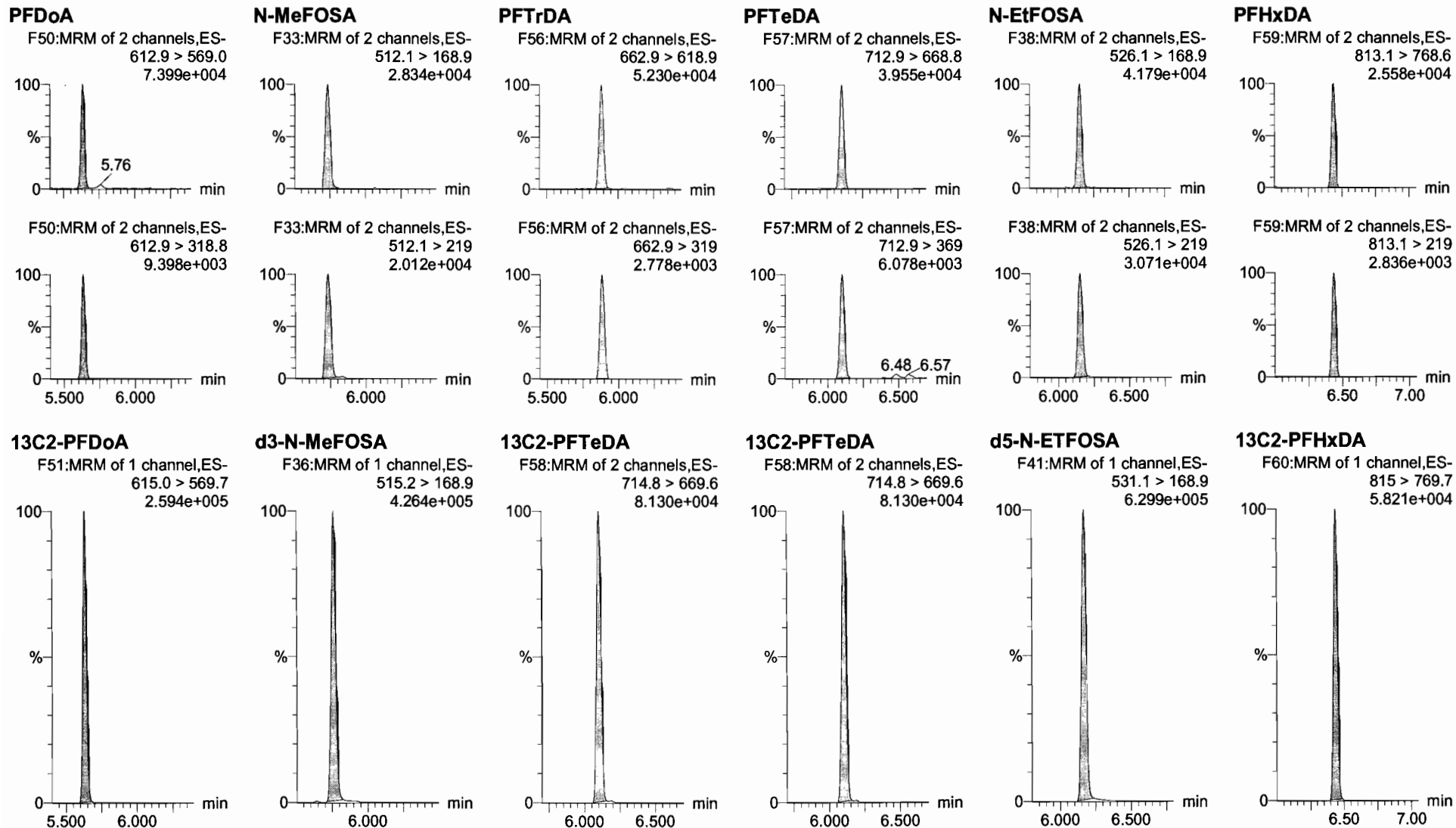


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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_5, Date: 02-Jan-2018, Time: 16:09:21, ID: ST180102M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

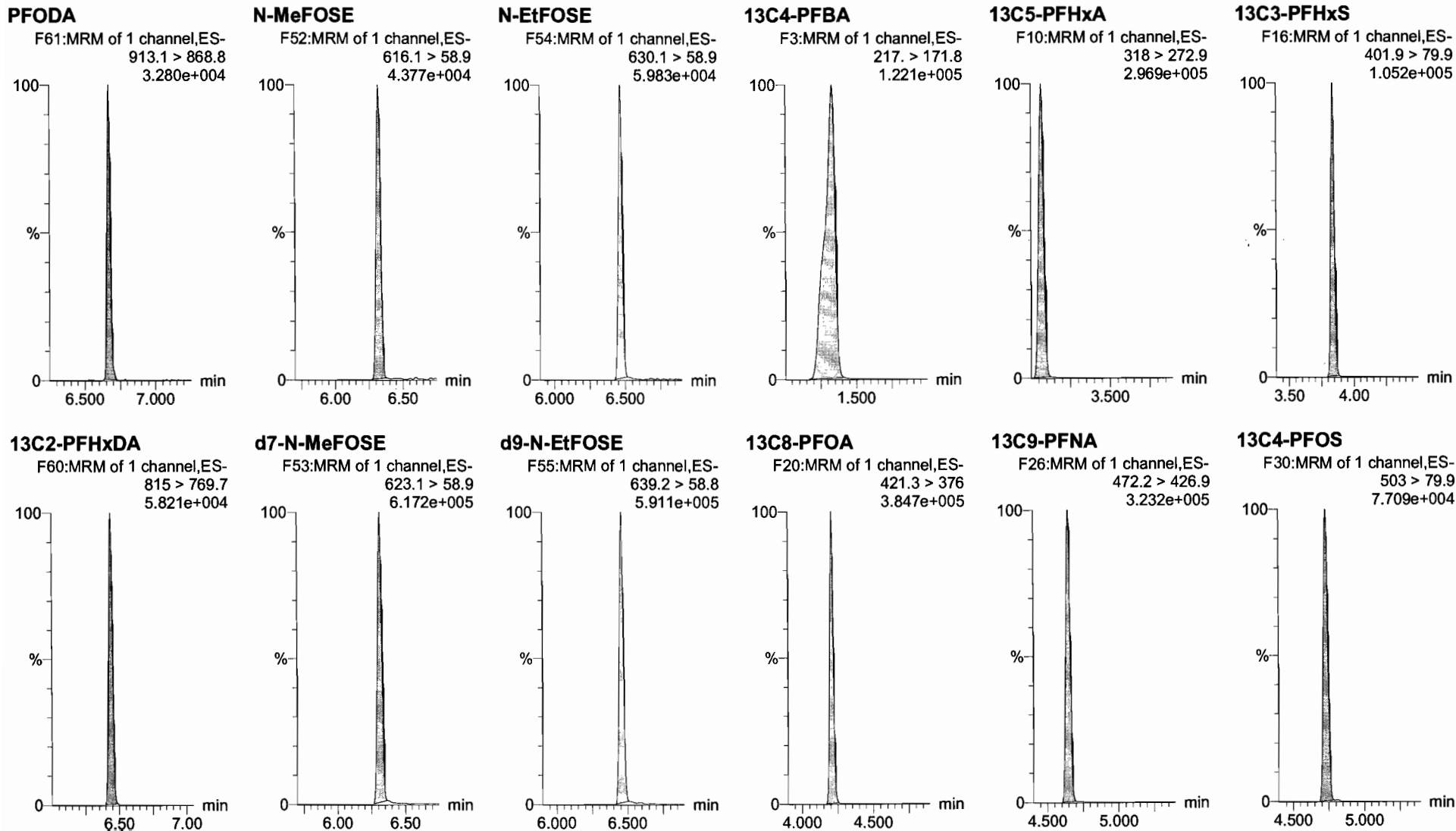


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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_5, Date: 02-Jan-2018, Time: 16:09:21, ID: ST180102M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609





Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

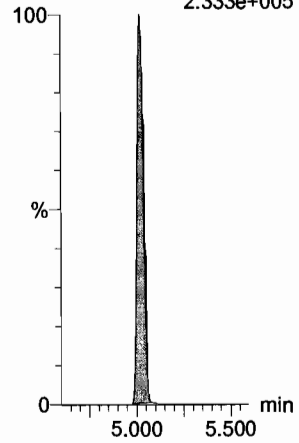
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_5, Date: 02-Jan-2018, Time: 16:09:21, ID: ST180102M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

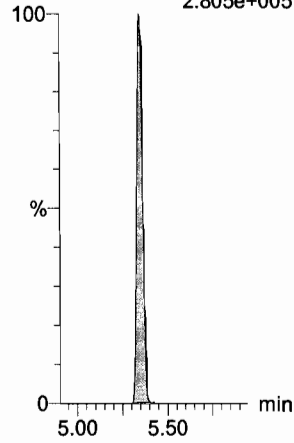
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.333e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
2.805e+005

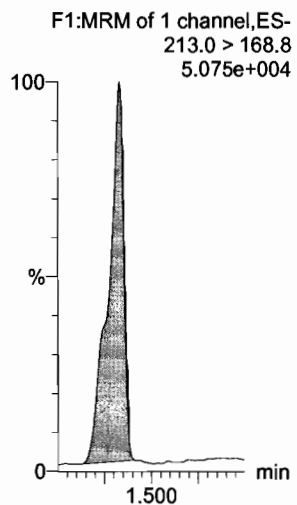


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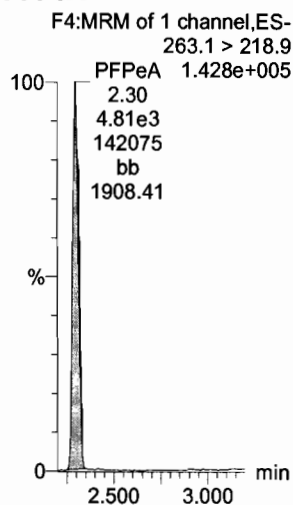
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_6, Date: 02-Jan-2018, Time: 16:20:32, ID: ST180102M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

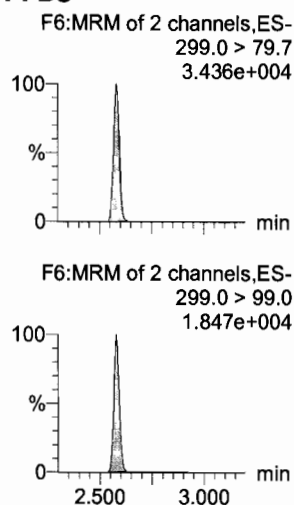
**PFBA**



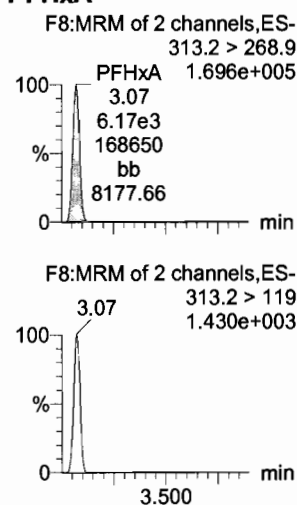
**PFPeA**



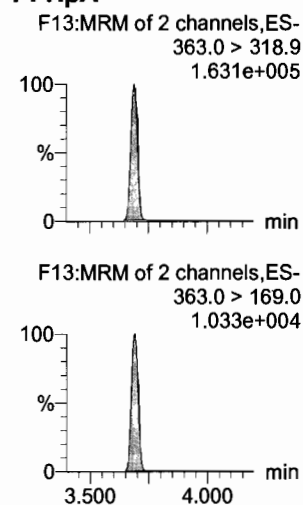
**PFBS**



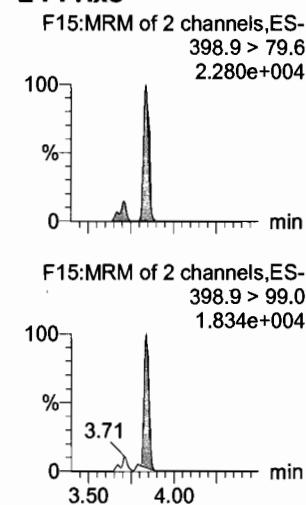
**PFHxA**



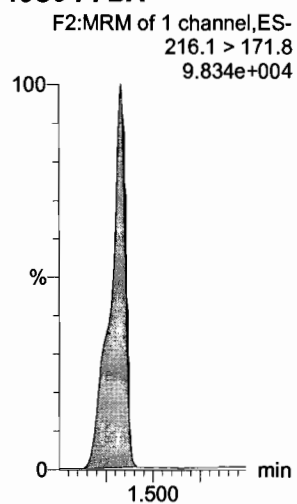
**PFHpA**



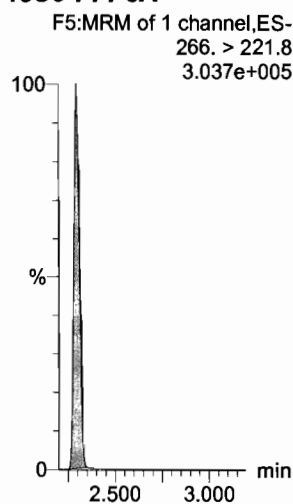
**L-PFHxS**



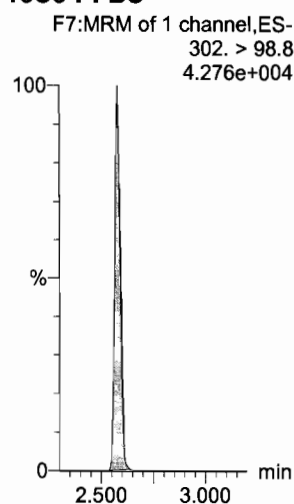
**13C3-PFBA**



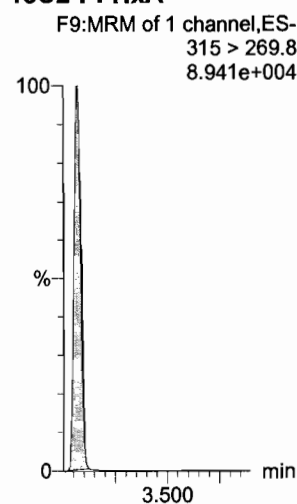
**13C3-PFPeA**



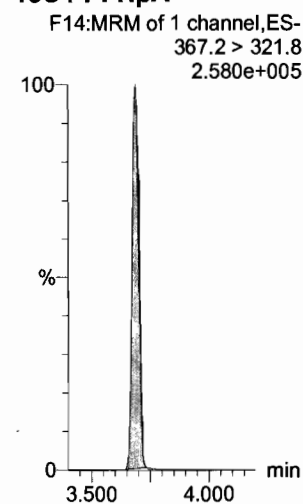
**13C3-PFBS**



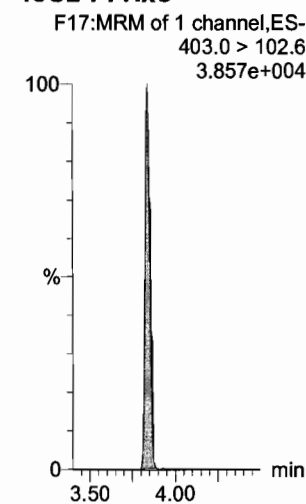
**13C2-PFHxA**



**13C4-PFHpA**



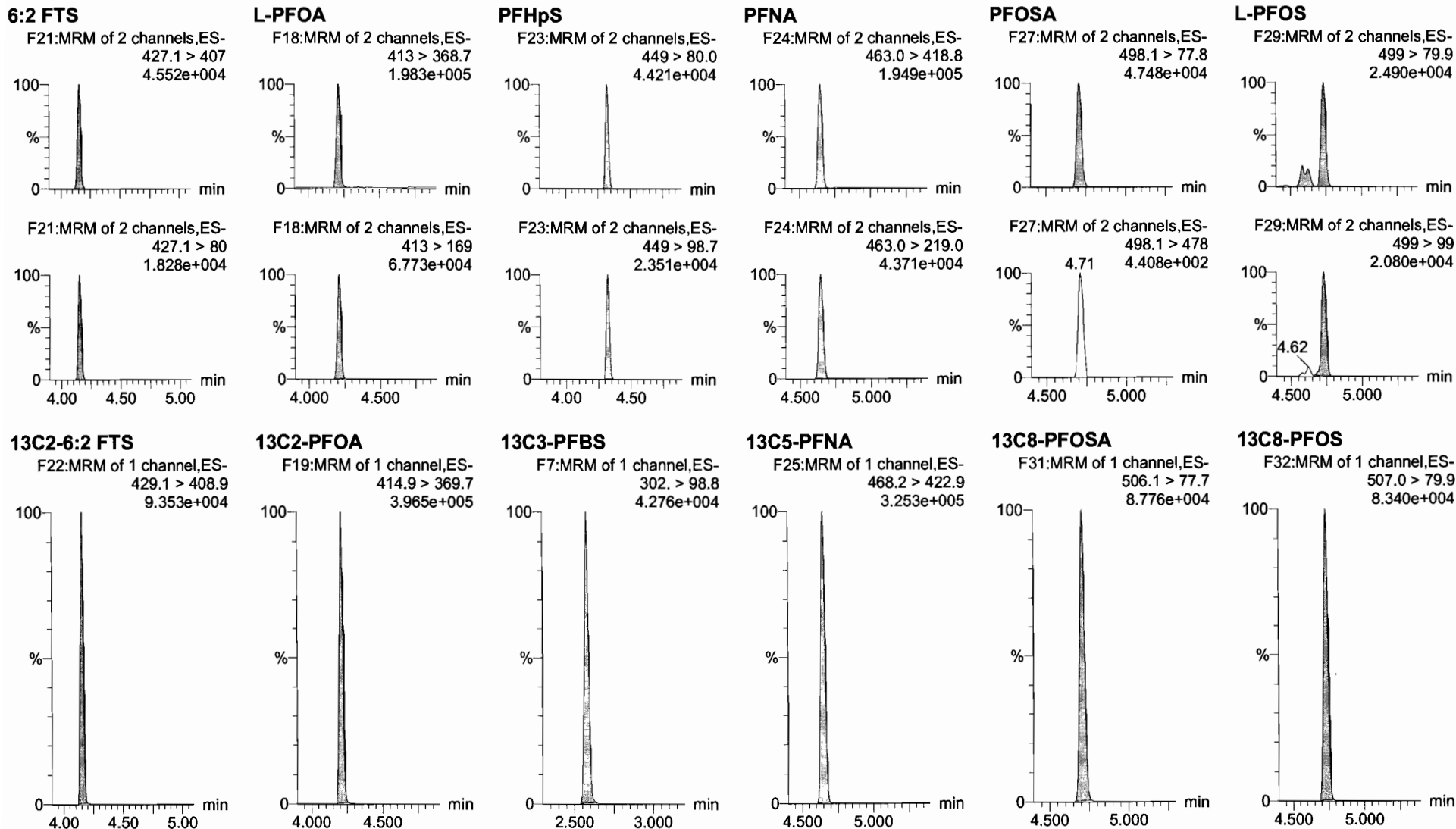
**18O2-PFHxS**



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_6, Date: 02-Jan-2018, Time: 16:20:32, ID: ST180102M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

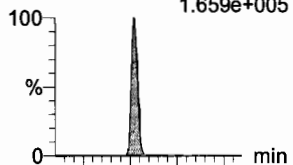
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

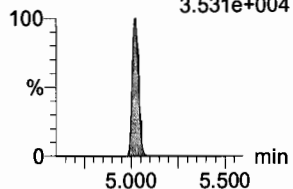
Name: 180102M2\_6, Date: 02-Jan-2018, Time: 16:20:32, ID: ST180102M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.659e+005

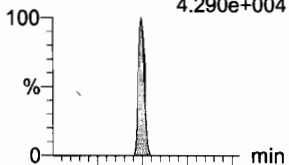


F34:MRM of 2 channels,ES-  
513 > 219  
3.531e+004

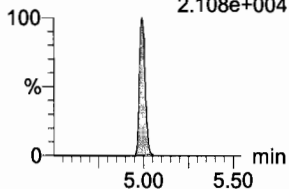


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
4.290e+004

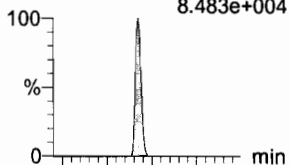


F39:MRM of 2 channels,ES-  
527 > 80  
2.108e+004

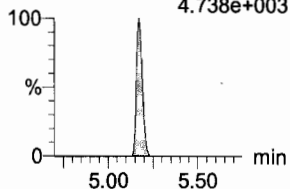


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
8.483e+004

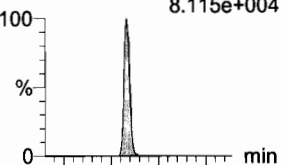


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
4.738e+003

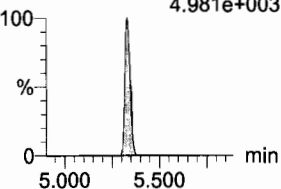


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
8.115e+004

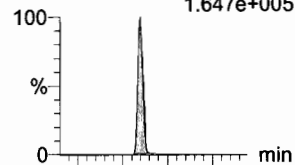


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
4.981e+003

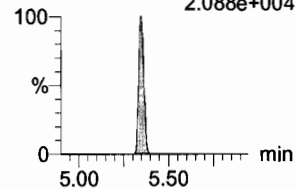


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
1.647e+005

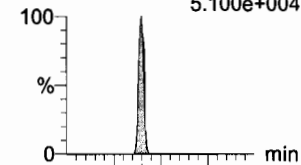


F42:MRM of 2 channels,ES-  
563.0 > 269  
2.088e+004

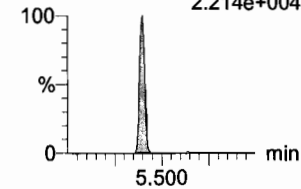


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
5.100e+004

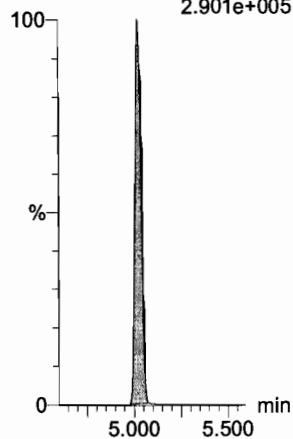


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
2.214e+004



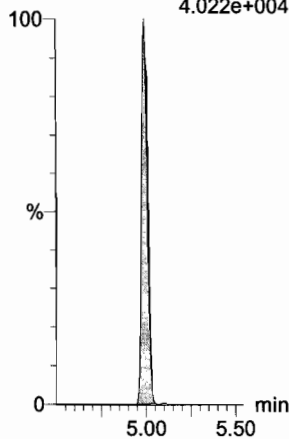
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.901e+005



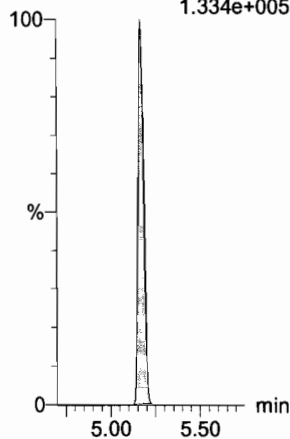
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
4.022e+004



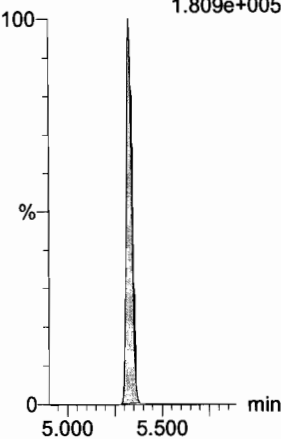
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.334e+005



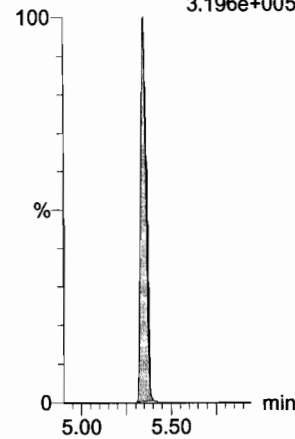
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.809e+005



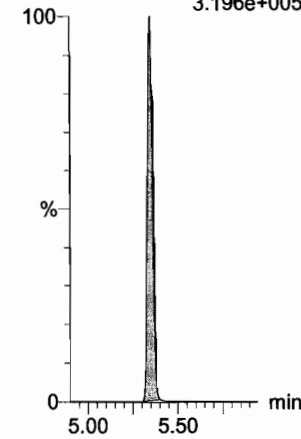
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.196e+005



**13C2-PFUdA**

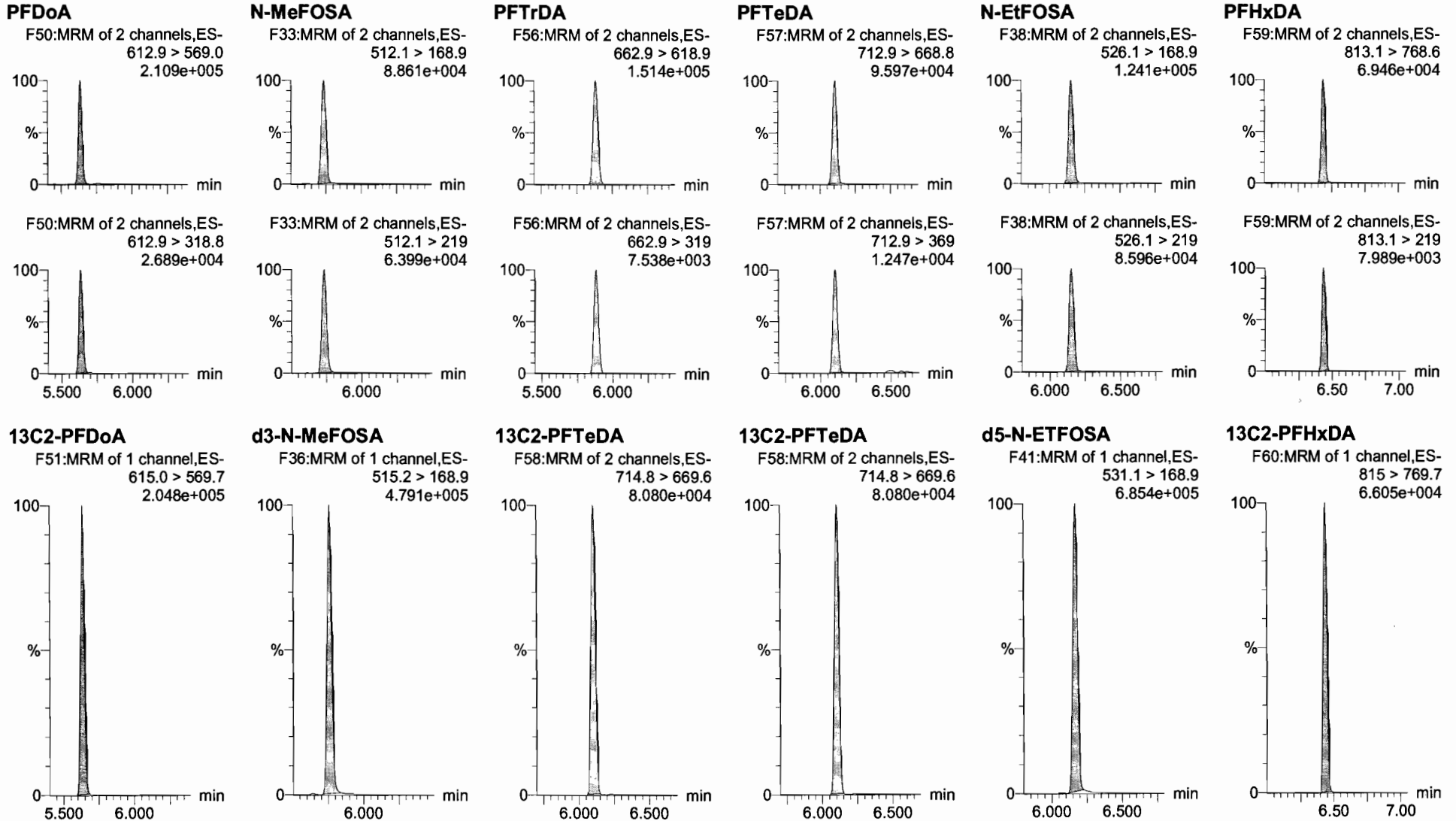
F43:MRM of 1 channel,ES-  
565 > 519.8  
3.196e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_6, Date: 02-Jan-2018, Time: 16:20:32, ID: ST180102M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610



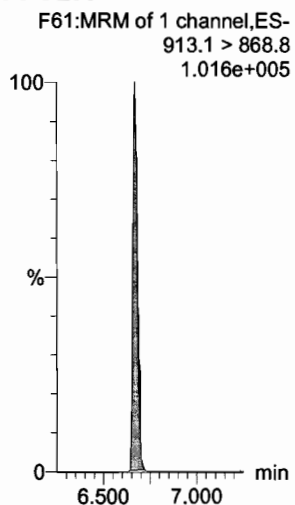
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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

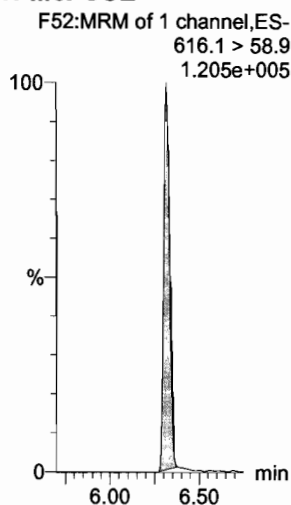
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_6, Date: 02-Jan-2018, Time: 16:20:32, ID: ST180102M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

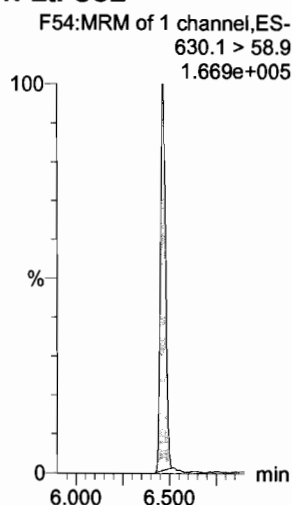
**PFODA**



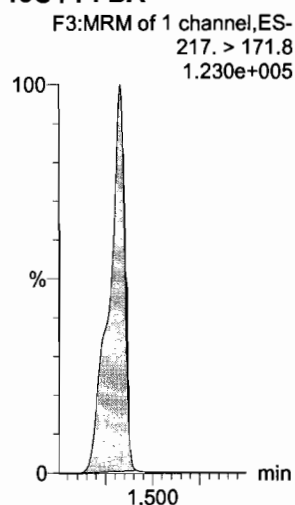
**N-MeFOSE**



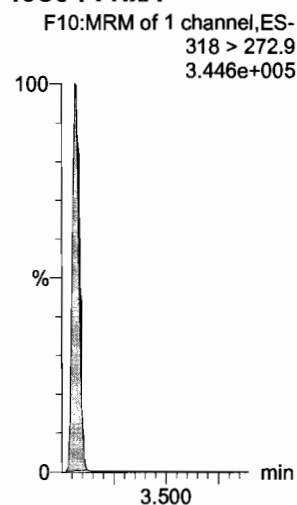
**N-EtFOSE**



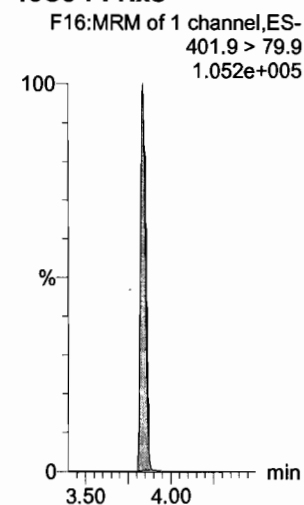
**13C4-PFBA**



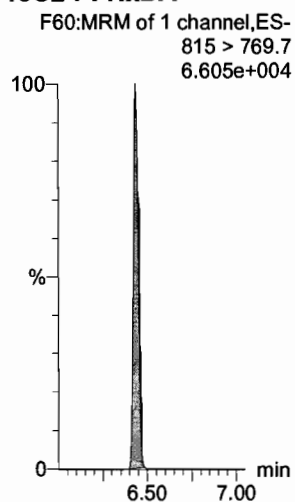
**13C5-PFHxA**



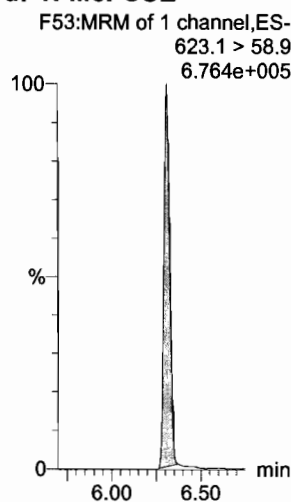
**13C3-PFHxS**



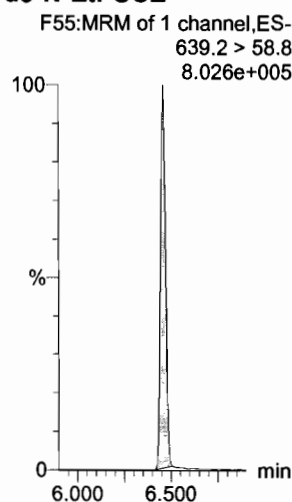
**13C2-PFHxDA**



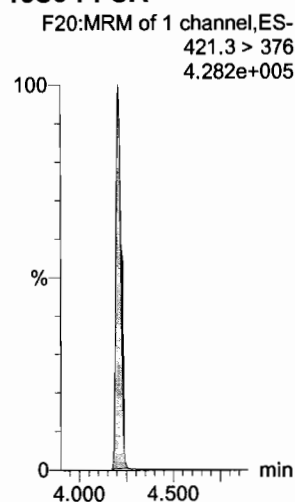
**d7-N-MeFOSE**



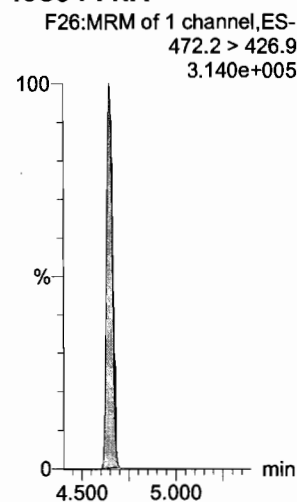
**d9-N-EtFOSE**



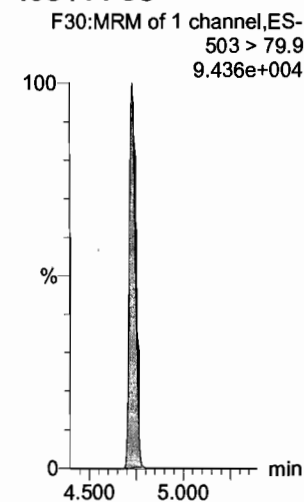
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

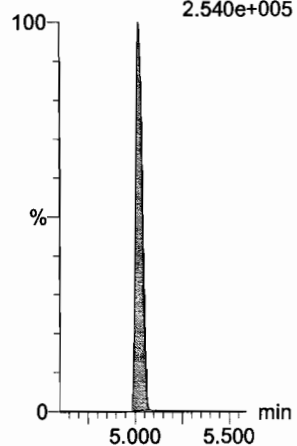
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_6, Date: 02-Jan-2018, Time: 16:20:32, ID: ST180102M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

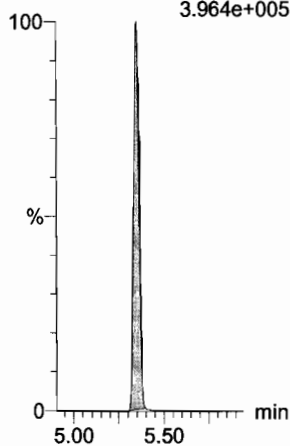
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.540e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.964e+005



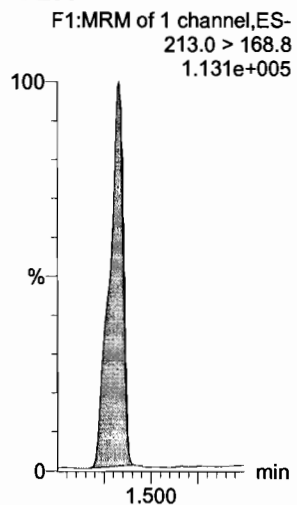
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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

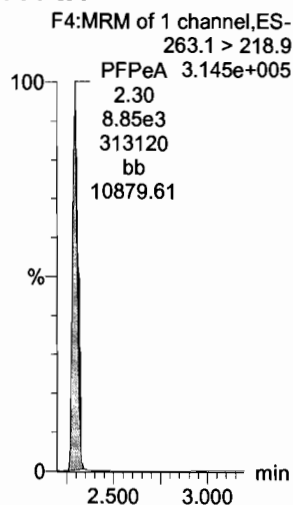
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_7, Date: 02-Jan-2018, Time: 16:31:43, ID: ST180102M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

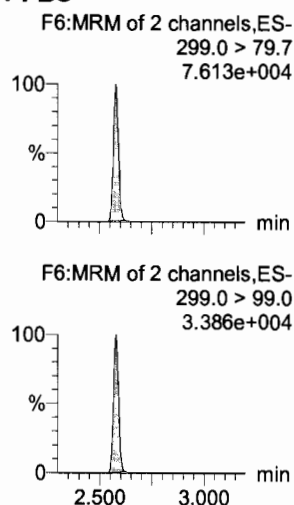
**PFBA**



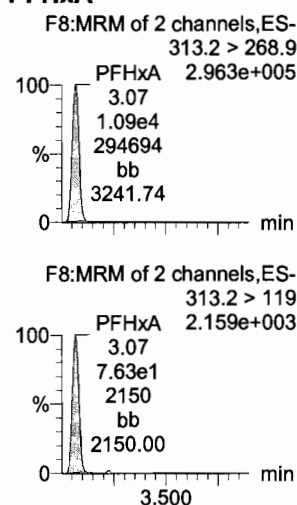
**PFPeA**



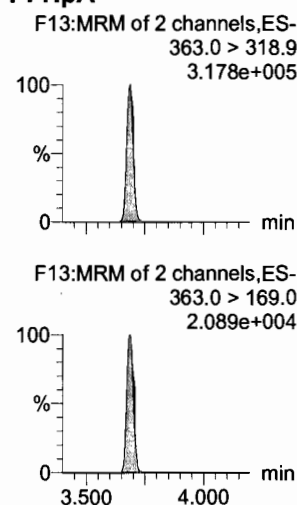
**PFBS**



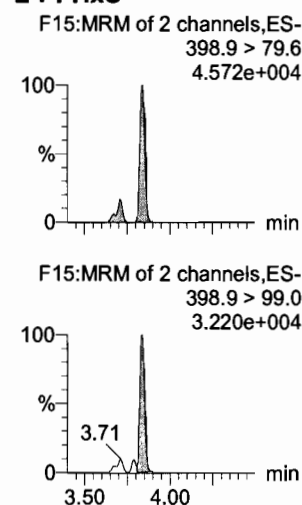
**PFHxA**



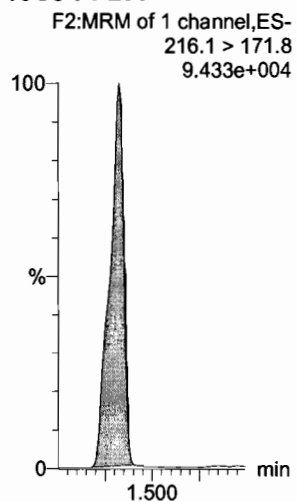
**PFHpA**



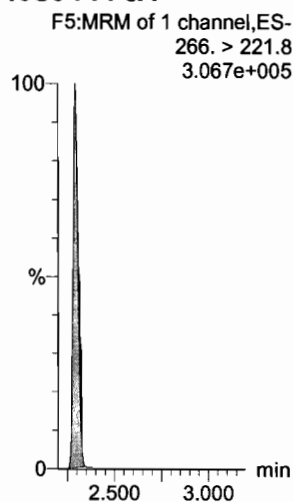
**L-PFHxS**



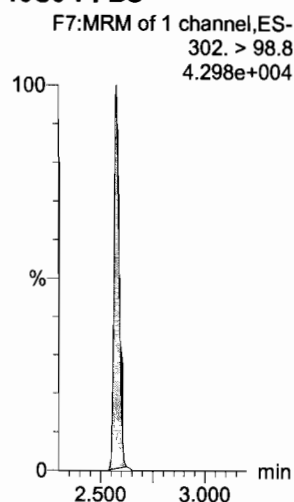
**13C3-PFBA**



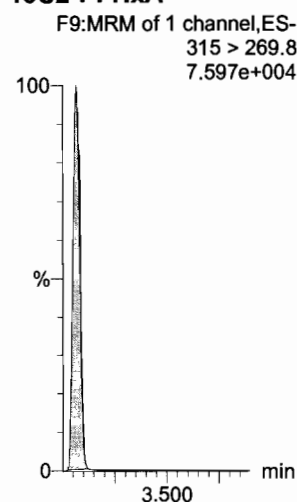
**13C3-PFPeA**



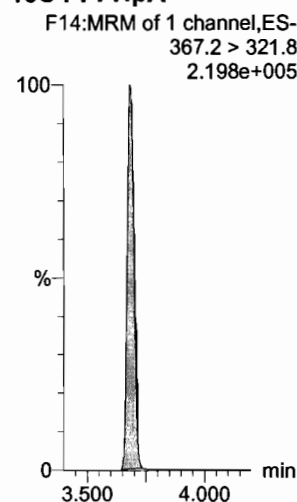
**13C3-PFBS**



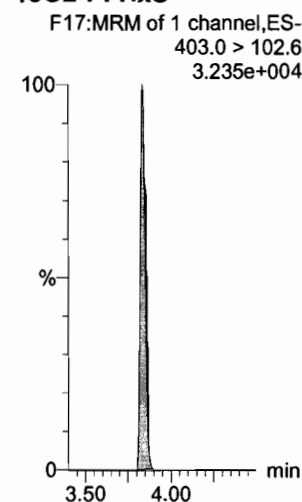
**13C2-PFHxA**



**13C4-PFHpA**



**18O2-PFHxS**





Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

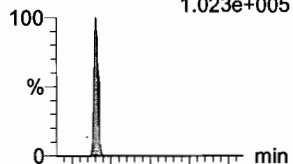
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Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

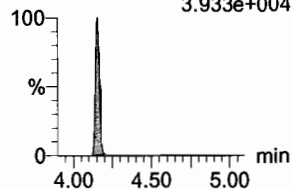
Name: 180102M2\_7, Date: 02-Jan-2018, Time: 16:31:43, ID: ST180102M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
1.023e+005

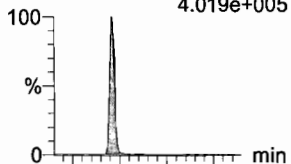


F21:MRM of 2 channels,ES-  
427.1 > 80  
3.933e+004

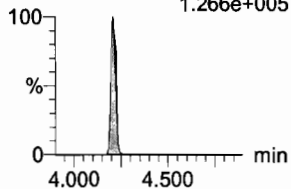


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
4.019e+005

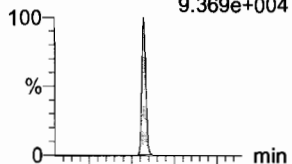


F18:MRM of 2 channels,ES-  
413 > 169  
1.266e+005

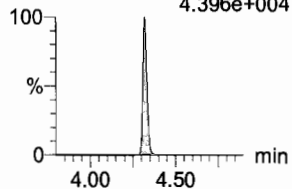


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
9.369e+004

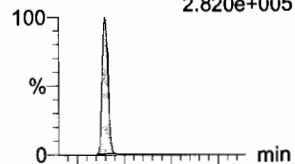


F23:MRM of 2 channels,ES-  
449 > 98.7  
4.396e+004

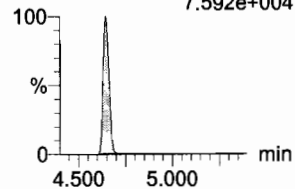


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
2.820e+005

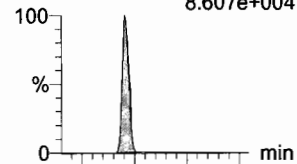


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
7.592e+004

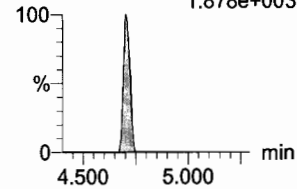


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
8.607e+004

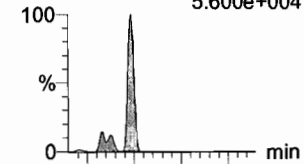


F27:MRM of 2 channels,ES-  
498.1 > 478  
1.878e+003

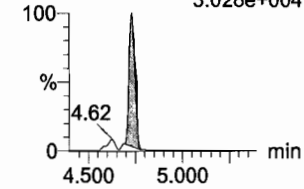


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
5.600e+004

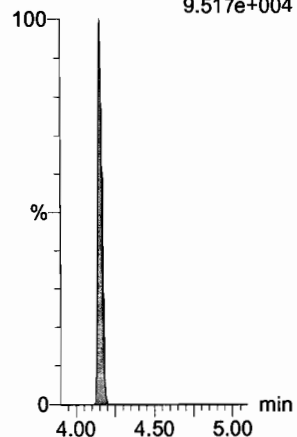


F29:MRM of 2 channels,ES-  
499 > 99  
3.028e+004



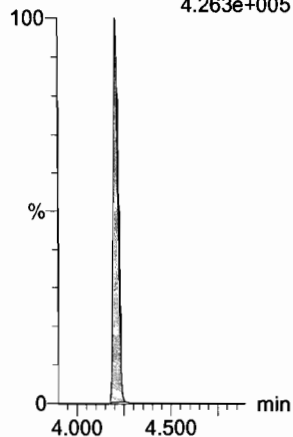
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
9.517e+004



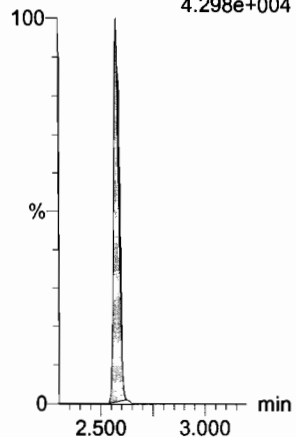
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
4.263e+005



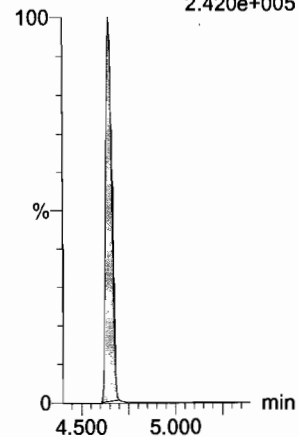
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
4.298e+004



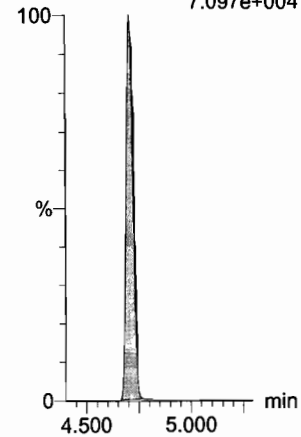
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.420e+005



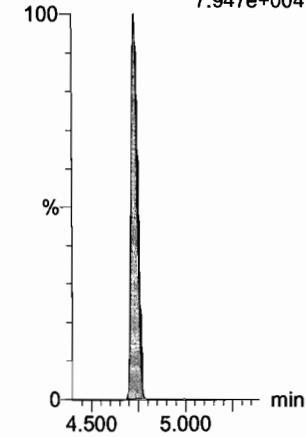
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
7.097e+004



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
7.947e+004

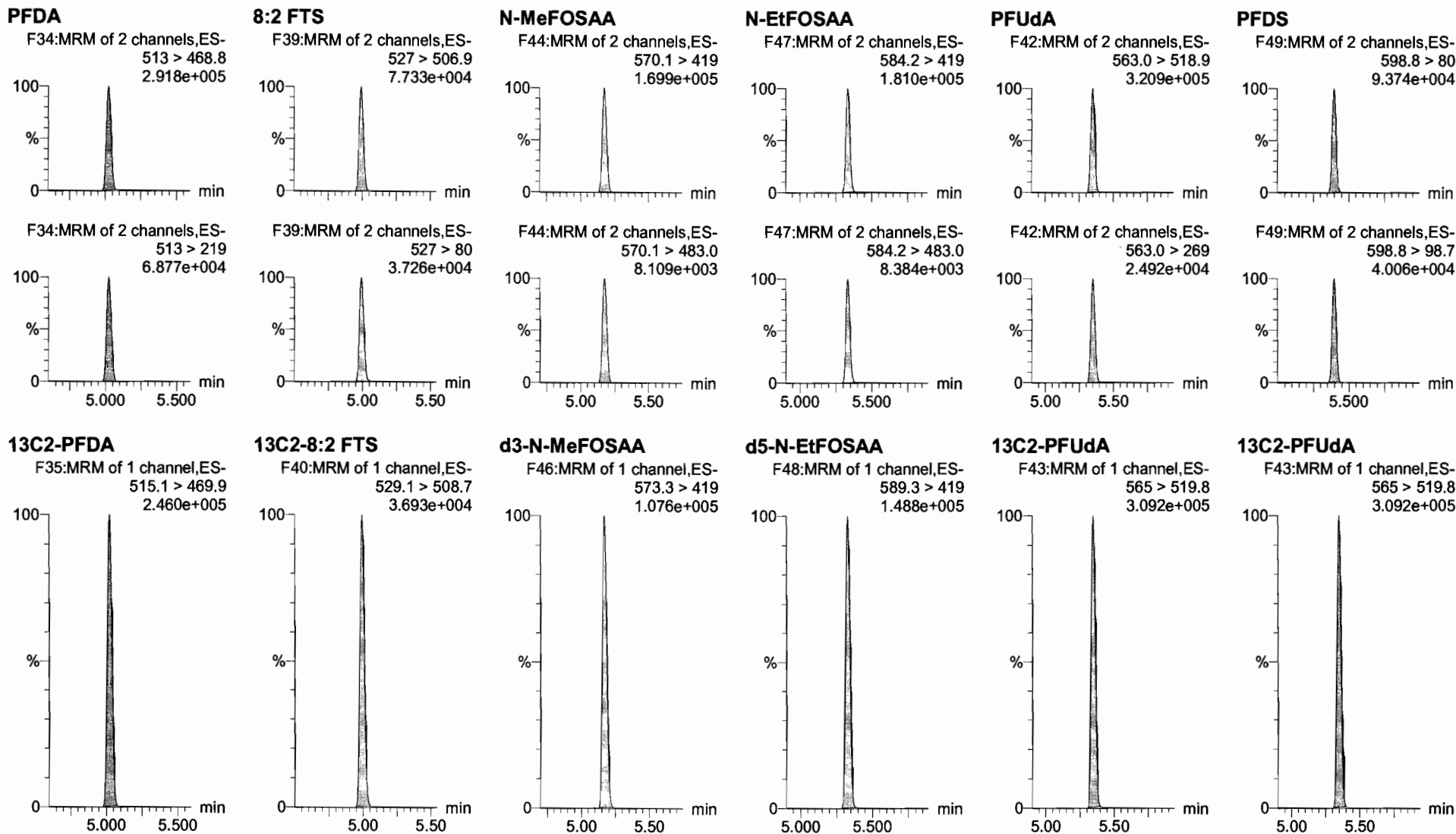


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

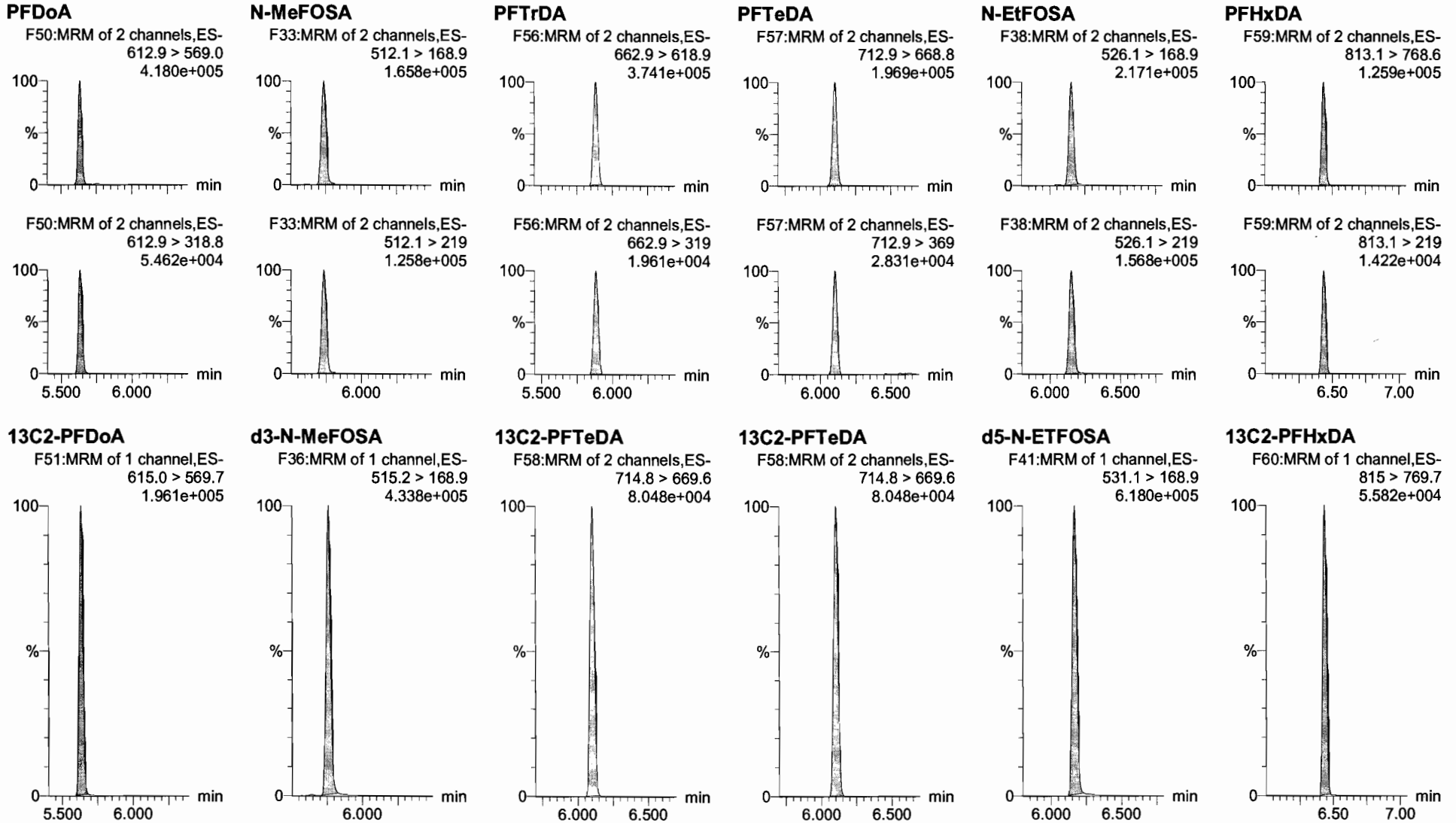
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Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_7, Date: 02-Jan-2018, Time: 16:31:43, ID: ST180102M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

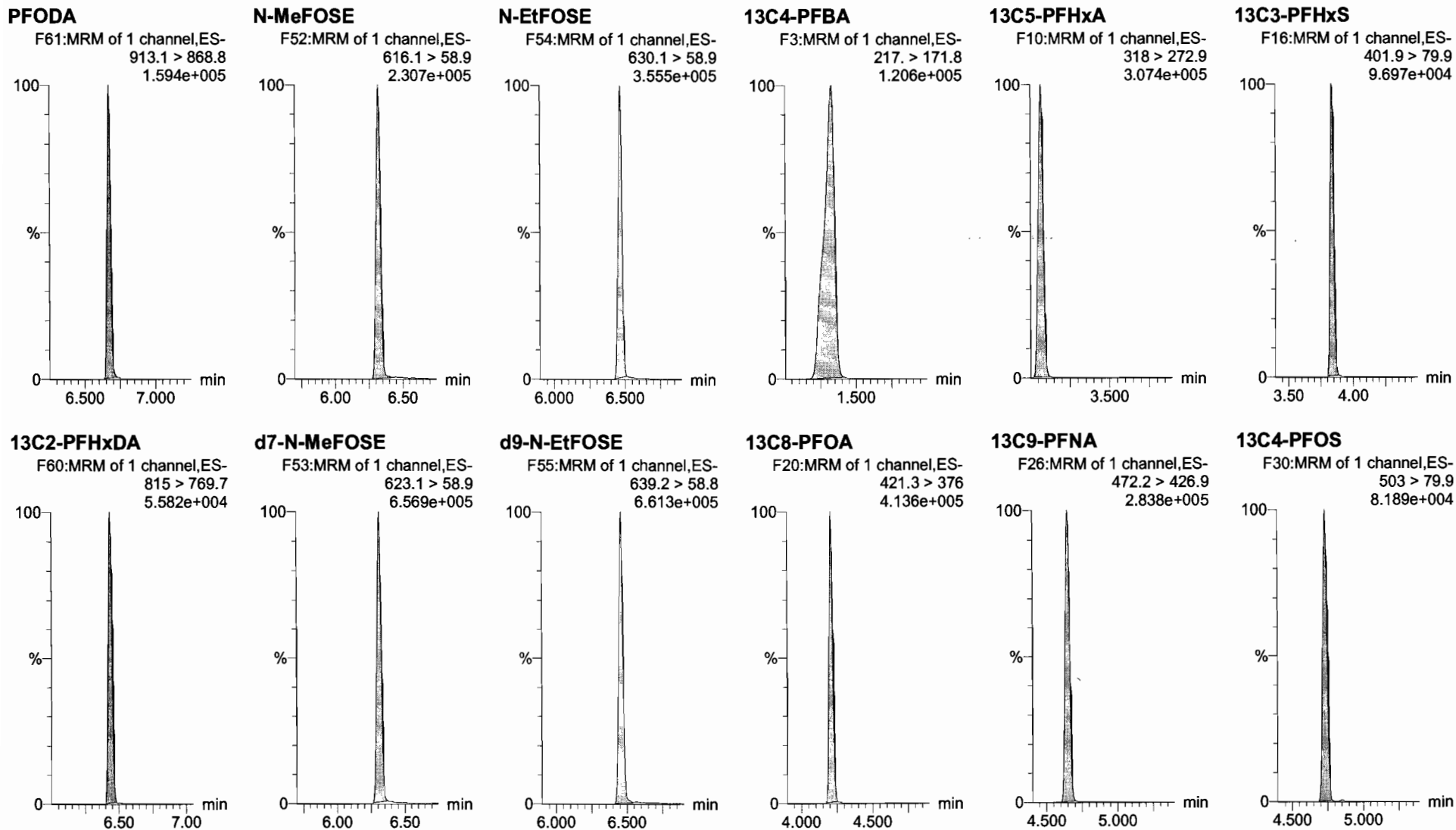


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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_7, Date: 02-Jan-2018, Time: 16:31:43, ID: ST180102M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

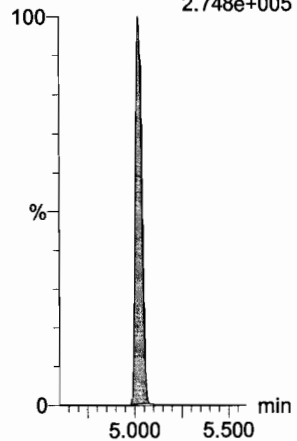
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

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Name: 180102M2\_7, Date: 02-Jan-2018, Time: 16:31:43, ID: ST180102M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

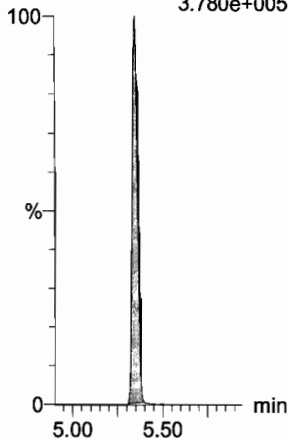
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.748e+005



13C7-PFUdA

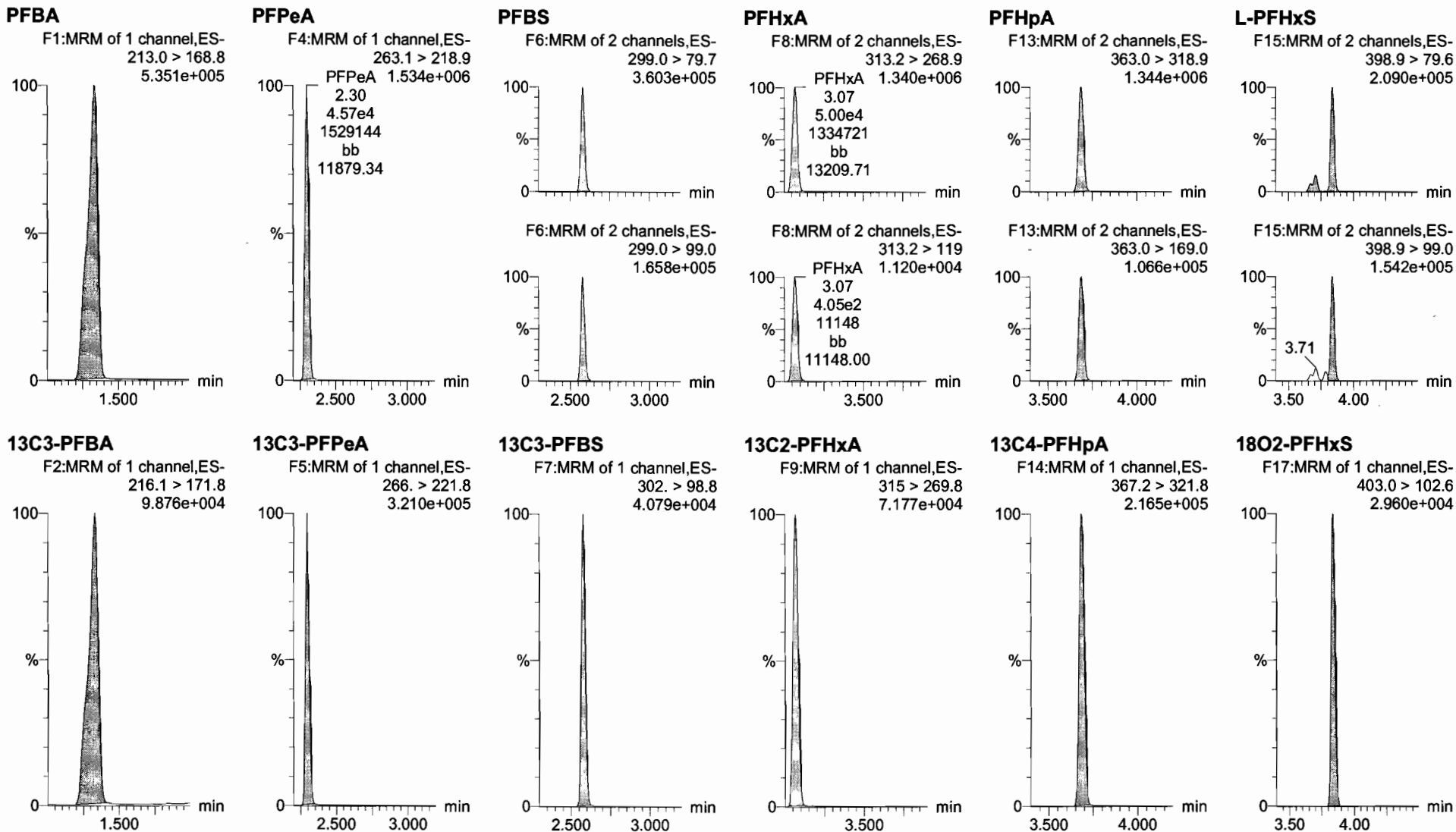
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.780e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_8, Date: 02-Jan-2018, Time: 16:42:54, ID: ST180102M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612



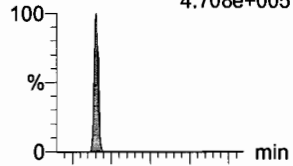
Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

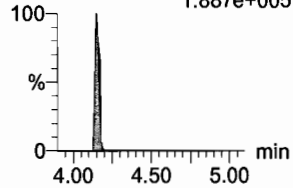
Name: 180102M2\_8, Date: 02-Jan-2018, Time: 16:42:54, ID: ST180102M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

**6:2 FTS**

F21:MRM of 2 channels,ES-  
427.1 > 407  
4.708e+005

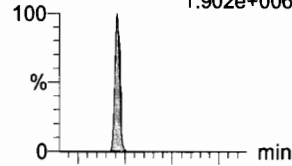


F21:MRM of 2 channels,ES-  
427.1 > 80  
1.887e+005

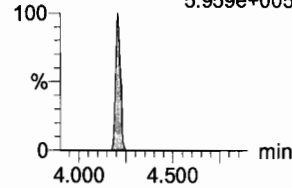


**L-PFOA**

F18:MRM of 2 channels,ES-  
413 > 368.7  
1.902e+006

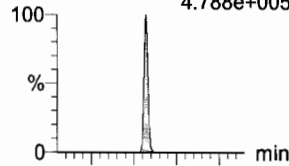


F18:MRM of 2 channels,ES-  
413 > 169  
5.959e+005

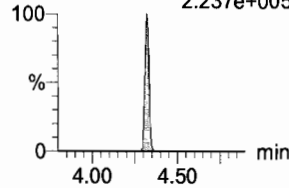


**PFHpS**

F23:MRM of 2 channels,ES-  
449 > 80.0  
4.788e+005

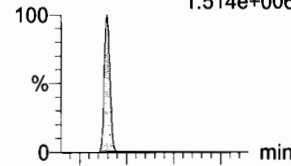


F23:MRM of 2 channels,ES-  
449 > 98.7  
2.237e+005

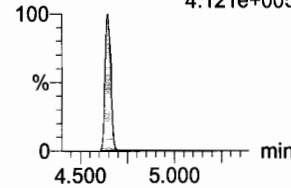


**PFNA**

F24:MRM of 2 channels,ES-  
463.0 > 418.8  
1.514e+006

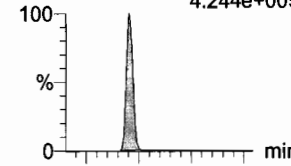


F24:MRM of 2 channels,ES-  
463.0 > 219.0  
4.121e+005

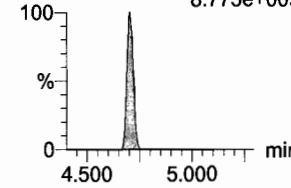


**PFOSA**

F27:MRM of 2 channels,ES-  
498.1 > 77.8  
4.244e+005

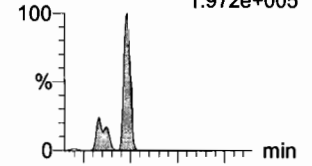


F27:MRM of 2 channels,ES-  
498.1 > 478  
8.775e+003

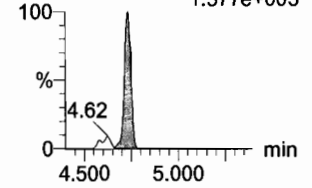


**L-PFOS**

F29:MRM of 2 channels,ES-  
499 > 79.9  
1.972e+005

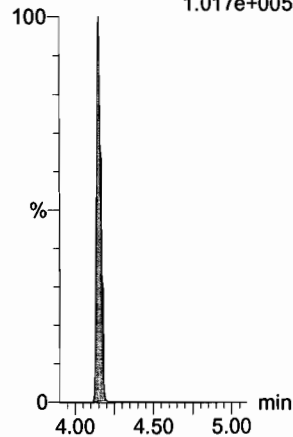


F29:MRM of 2 channels,ES-  
499 > 99  
1.377e+005



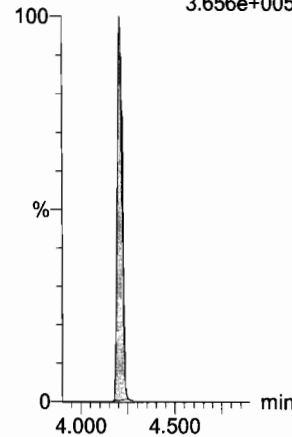
**13C2-6:2 FTS**

F22:MRM of 1 channel,ES-  
429.1 > 408.9  
1.017e+005



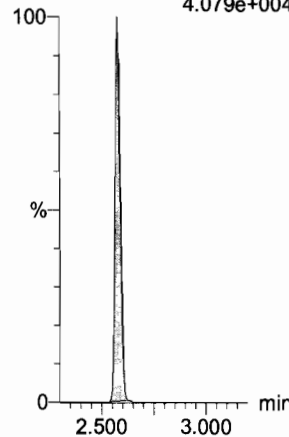
**13C2-PFOA**

F19:MRM of 1 channel,ES-  
414.9 > 369.7  
3.656e+005



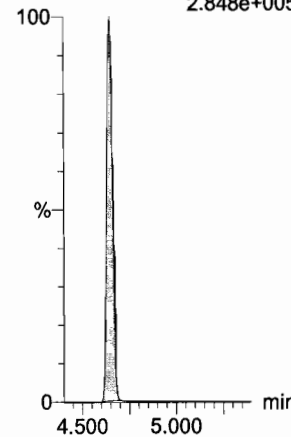
**13C3-PFBS**

F7:MRM of 1 channel,ES-  
302. > 98.8  
4.079e+004



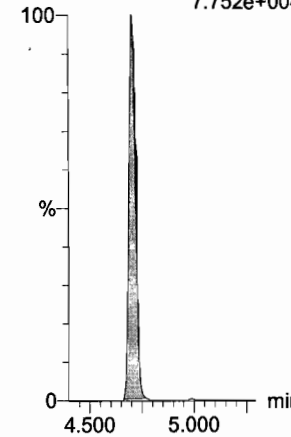
**13C5-PFNA**

F25:MRM of 1 channel,ES-  
468.2 > 422.9  
2.848e+005



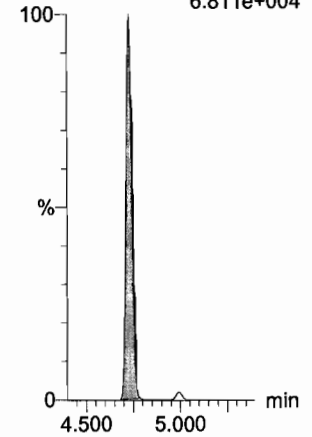
**13C8-PFOA**

F31:MRM of 1 channel,ES-  
506.1 > 77.7  
7.752e+004



**13C8-PFOS**

F32:MRM of 1 channel,ES-  
507.0 > 79.9  
6.811e+004



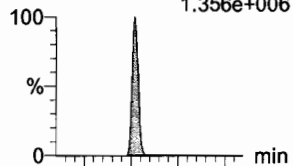
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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

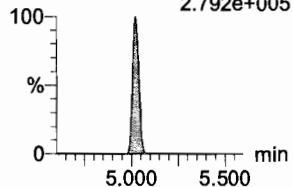
Name: 180102M2\_8, Date: 02-Jan-2018, Time: 16:42:54, ID: ST180102M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
1.356e+006

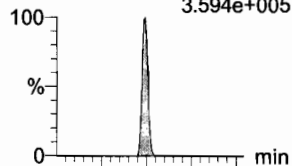


F34:MRM of 2 channels,ES-  
513 > 219  
2.792e+005

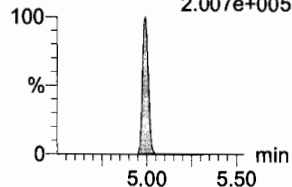


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
3.594e+005

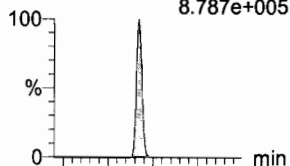


F39:MRM of 2 channels,ES-  
527 > 80  
2.007e+005

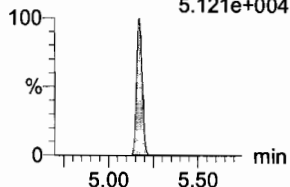


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
8.787e+005

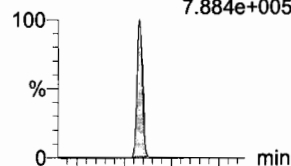


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
5.121e+004

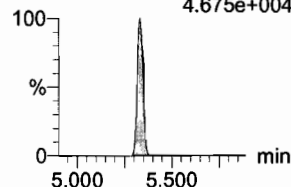


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
7.884e+005

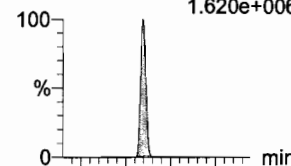


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
4.675e+004

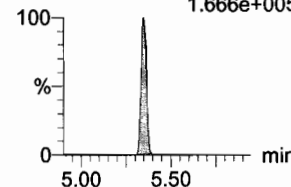


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
1.620e+006

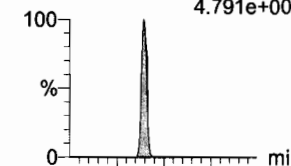


F42:MRM of 2 channels,ES-  
563.0 > 269  
1.666e+005

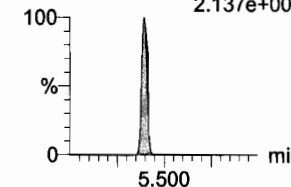


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
4.791e+005

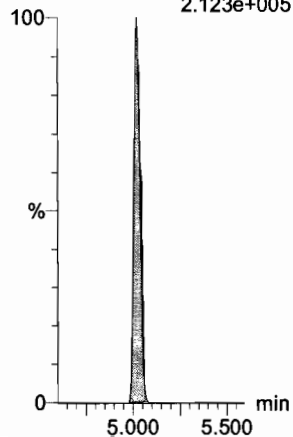


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
2.137e+005



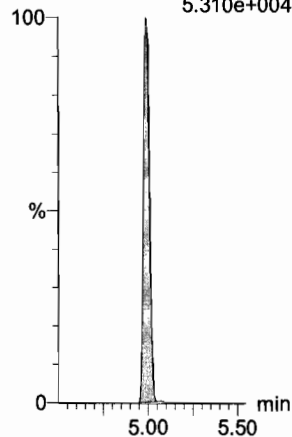
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.123e+005



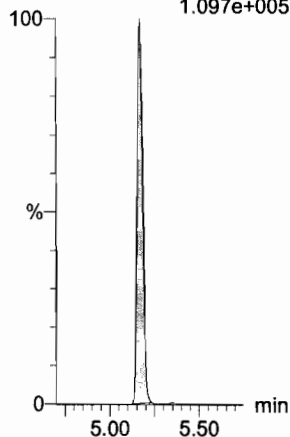
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
5.310e+004



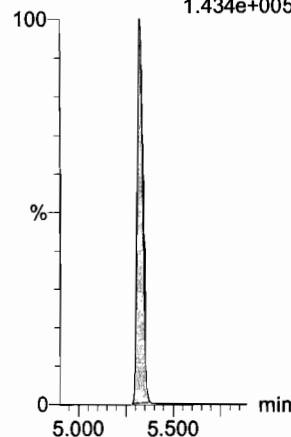
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.097e+005



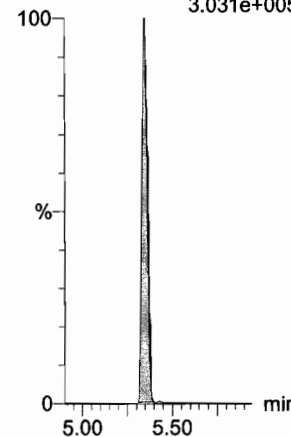
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.434e+005



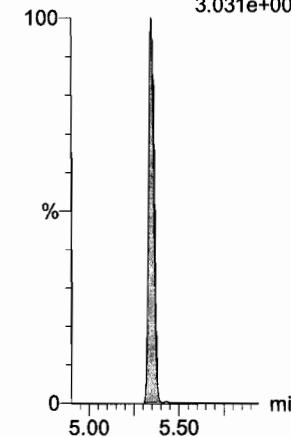
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.031e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.031e+005

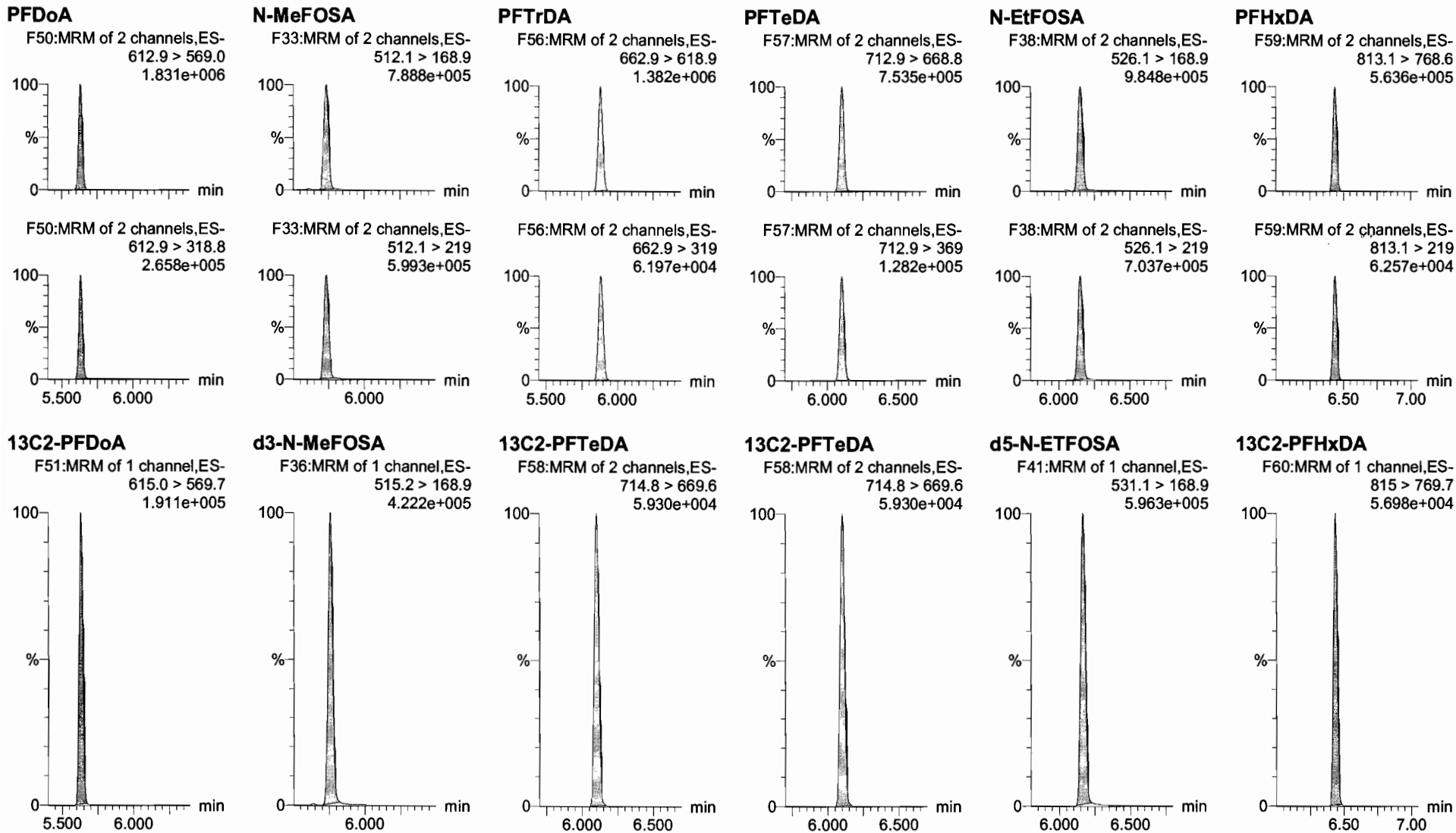




Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_8, Date: 02-Jan-2018, Time: 16:42:54, ID: ST180102M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

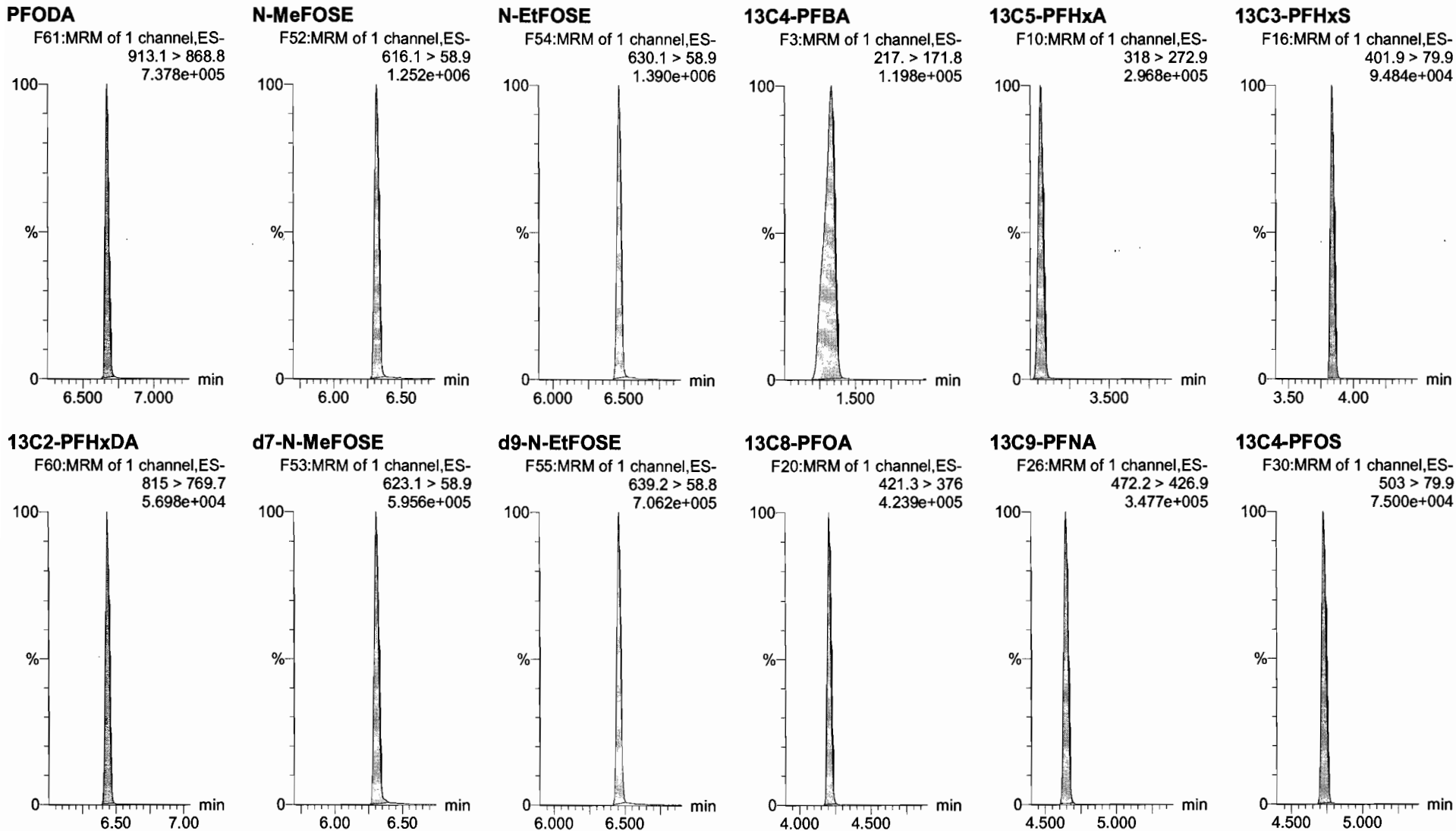


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_8, Date: 02-Jan-2018, Time: 16:42:54, ID: ST180102M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

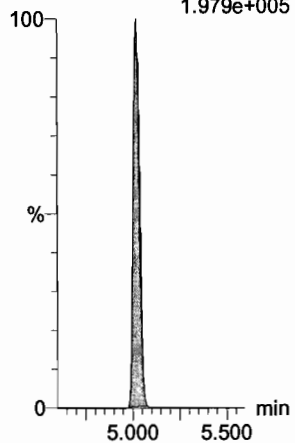
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_8, Date: 02-Jan-2018, Time: 16:42:54, ID: ST180102M2-7 PFC CS4 17L2612, Description: PFC CS4 17L2612

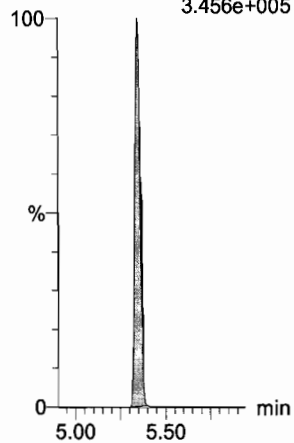
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
1.979e+005



13C7-PFUdA

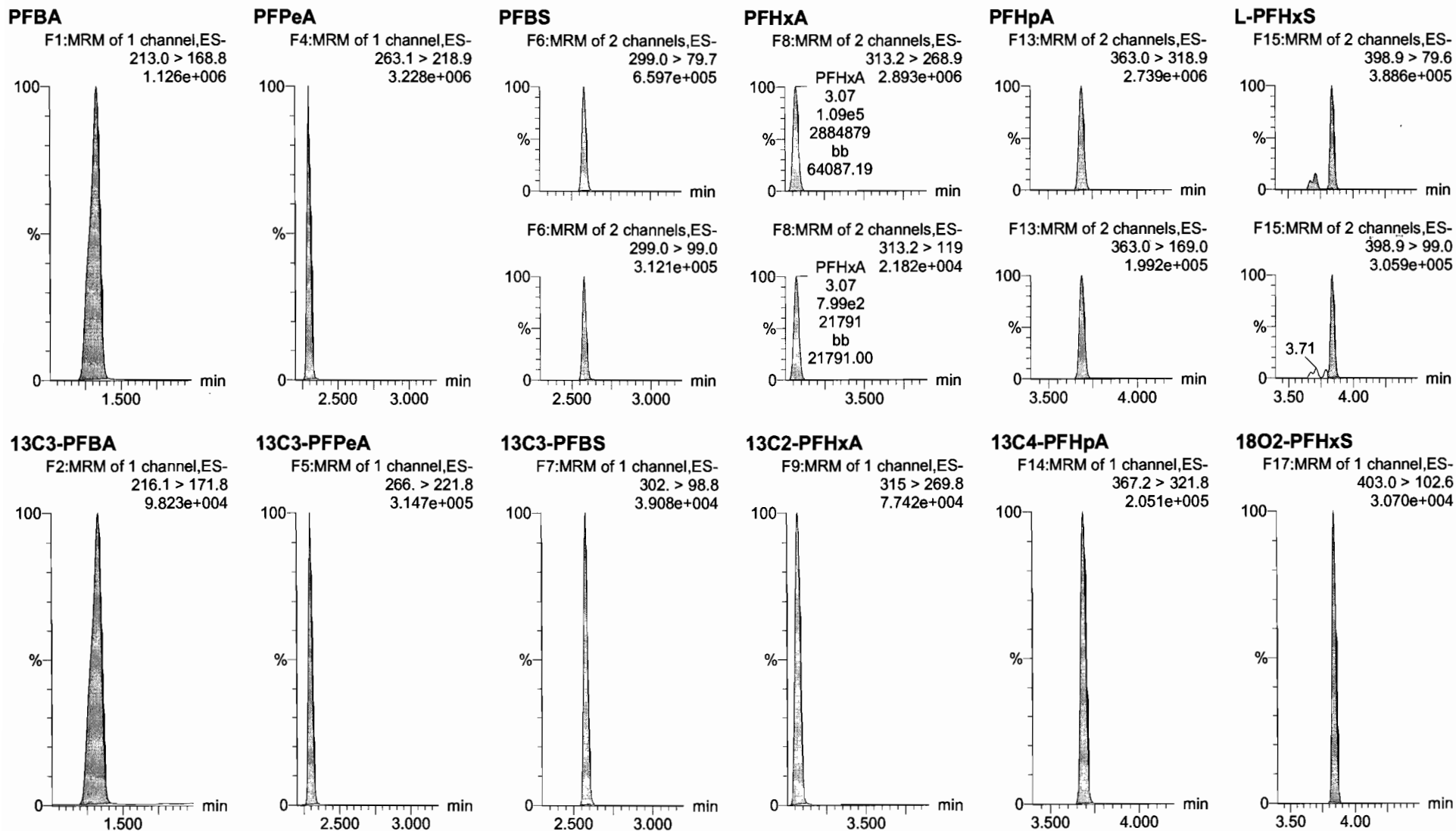
F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.456e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

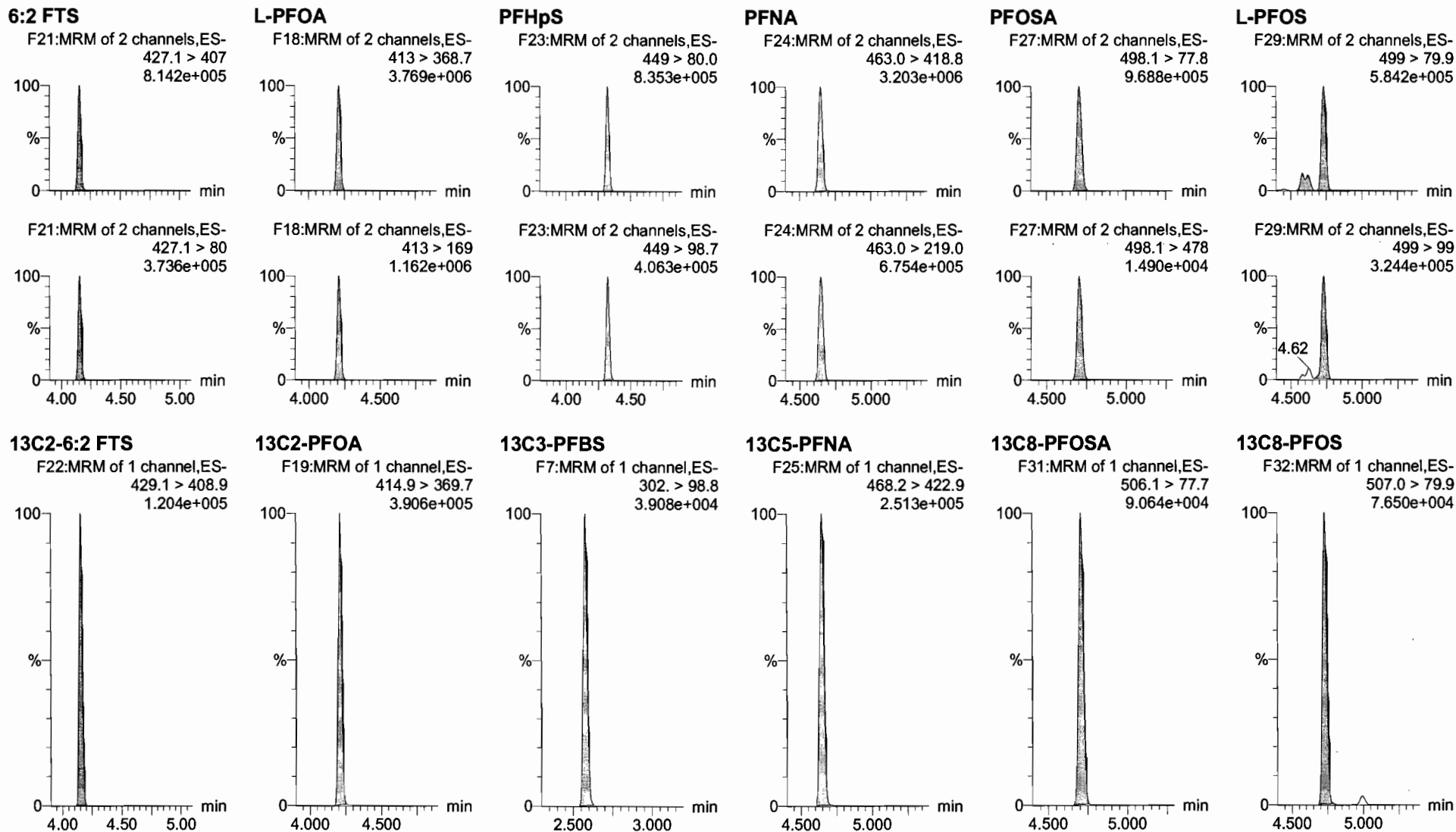
Name: 180102M2\_9, Date: 02-Jan-2018, Time: 16:54:04, ID: ST180102M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613



Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_9, Date: 02-Jan-2018, Time: 16:54:04, ID: ST180102M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613



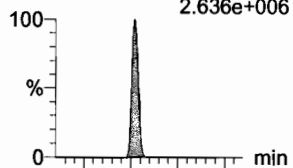
Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

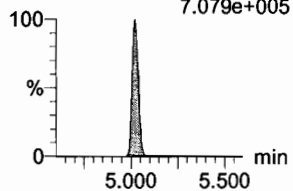
Name: 180102M2\_9, Date: 02-Jan-2018, Time: 16:54:04, ID: ST180102M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
2.636e+006

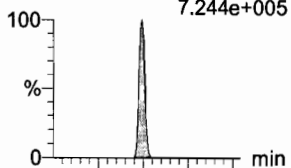


F34:MRM of 2 channels,ES-  
513 > 219  
7.079e+005

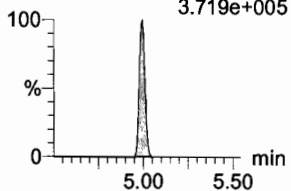


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
7.244e+005

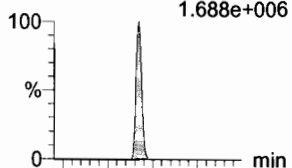


F39:MRM of 2 channels,ES-  
527 > 80  
3.719e+005

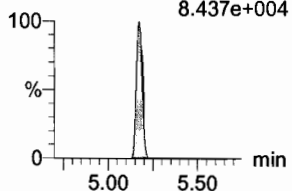


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.688e+006

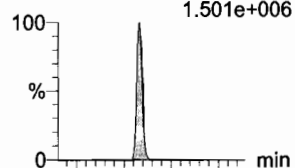


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
8.437e+004

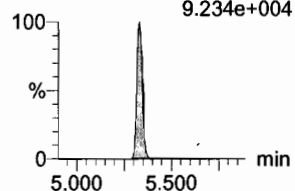


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.501e+006

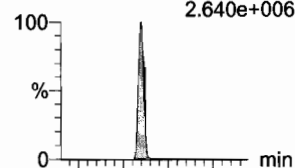


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
9.234e+004

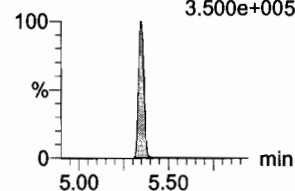


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
2.640e+006

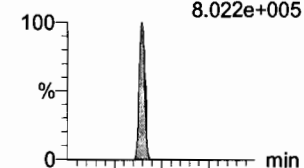


F42:MRM of 2 channels,ES-  
563.0 > 269  
3.500e+005

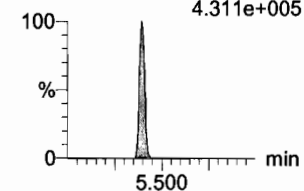


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
8.022e+005

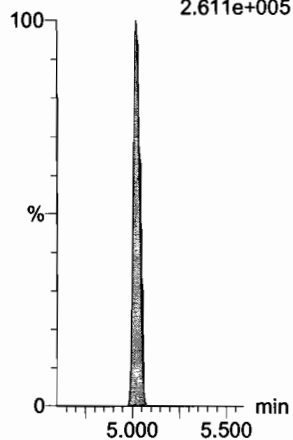


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
4.311e+005



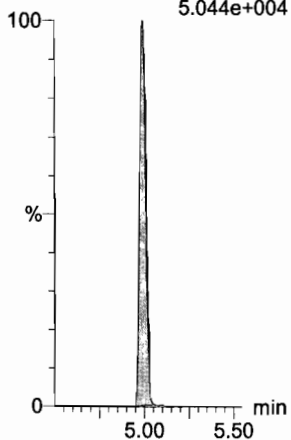
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.611e+005



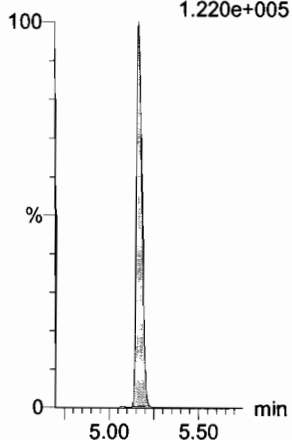
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
5.044e+004



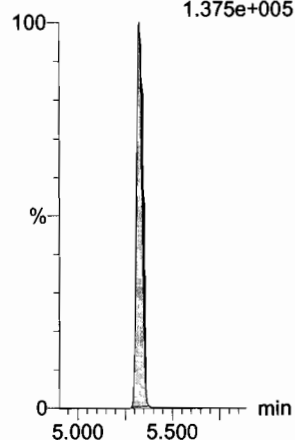
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.220e+005



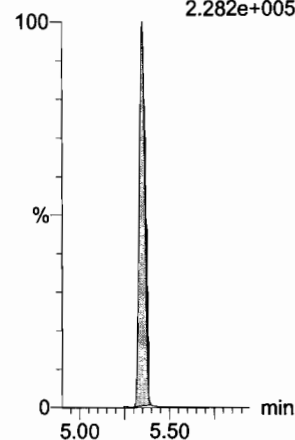
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.375e+005



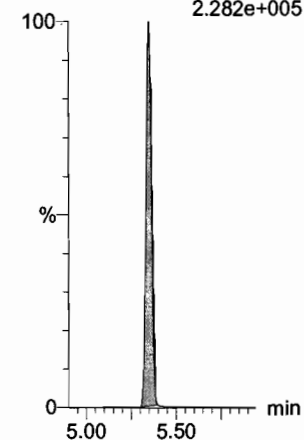
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.282e+005



**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
2.282e+005

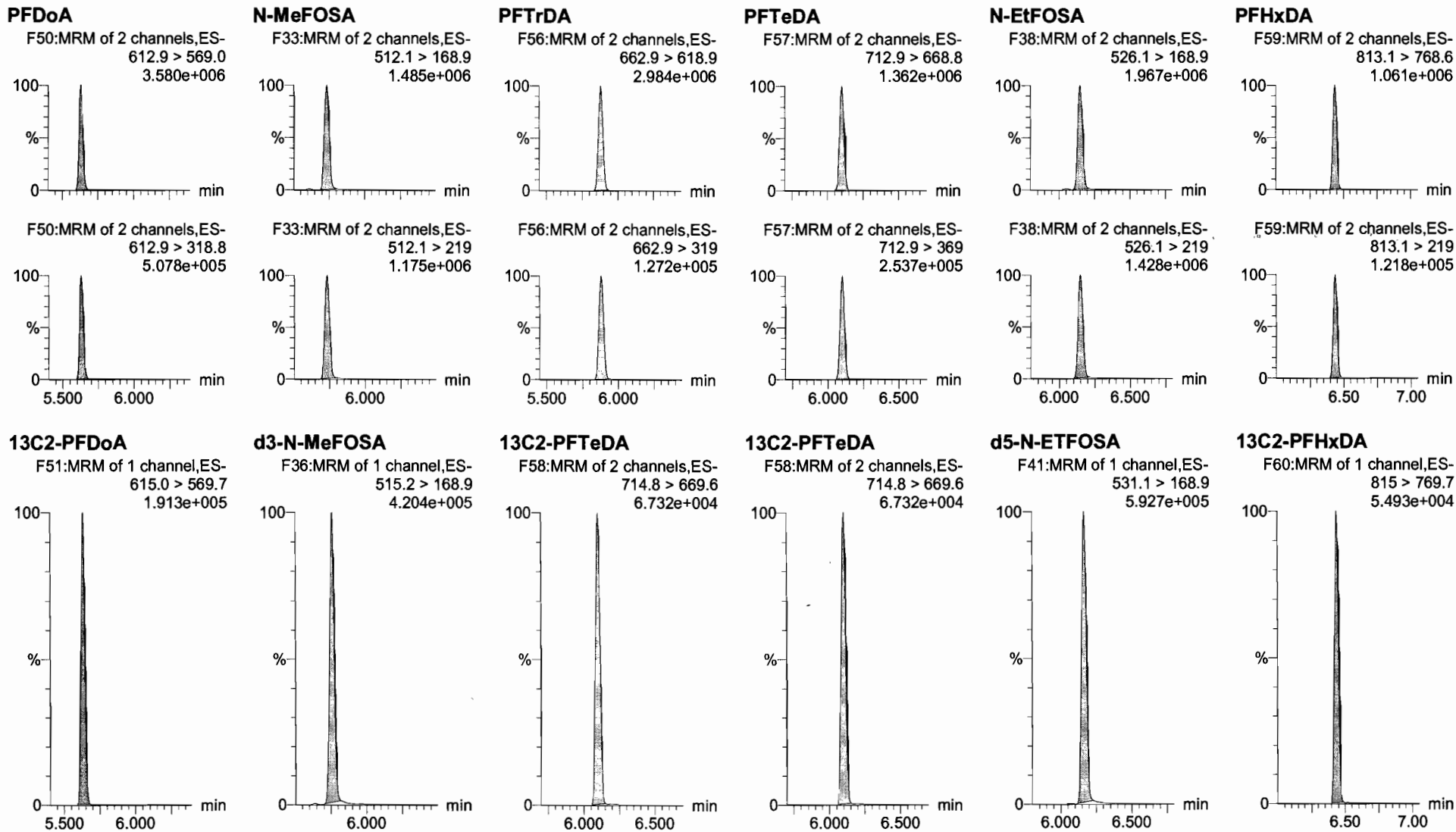


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Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_9, Date: 02-Jan-2018, Time: 16:54:04, ID: ST180102M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

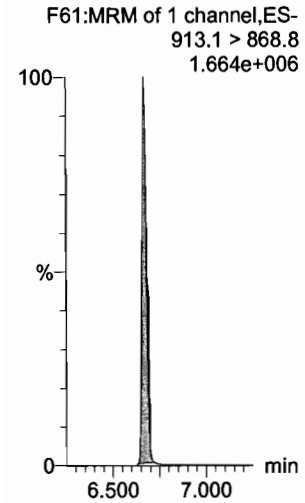


Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

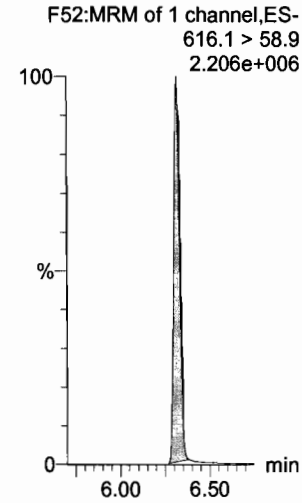
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_9, Date: 02-Jan-2018, Time: 16:54:04, ID: ST180102M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

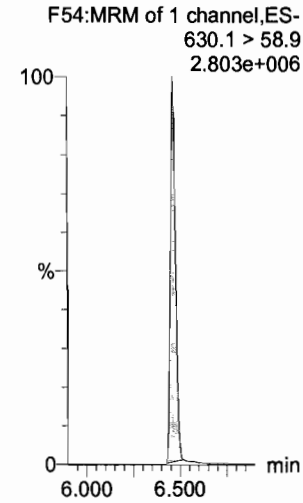
**PFODA**



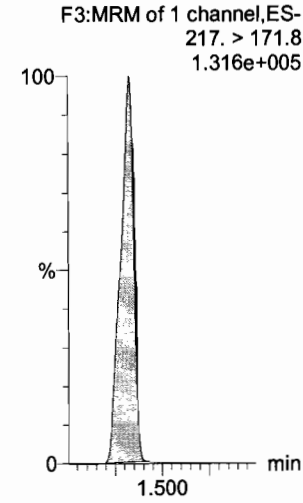
**N-MeFOSE**



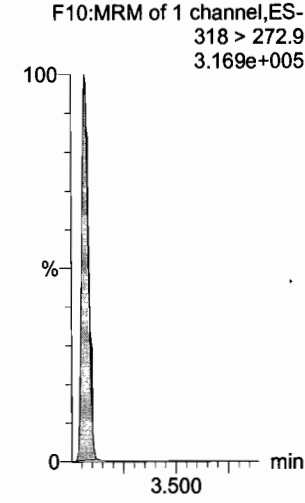
**N-EtFOSE**



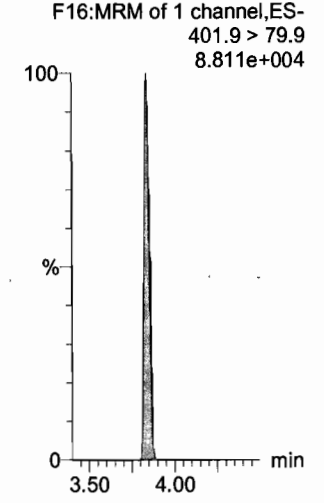
**13C4-PFBA**



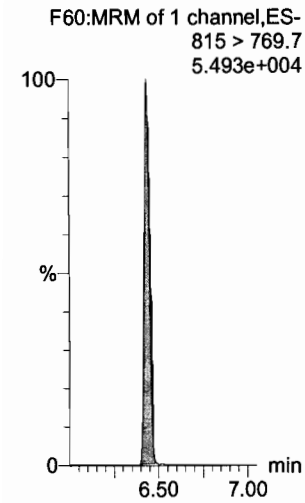
**13C5-PFHxA**



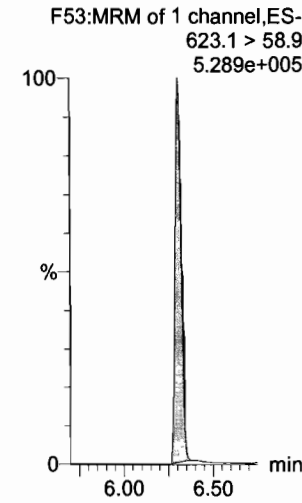
**13C3-PFHxS**



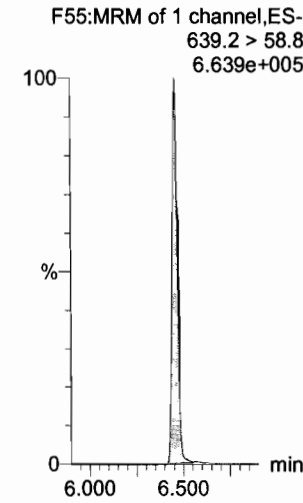
**13C2-PFHxDA**



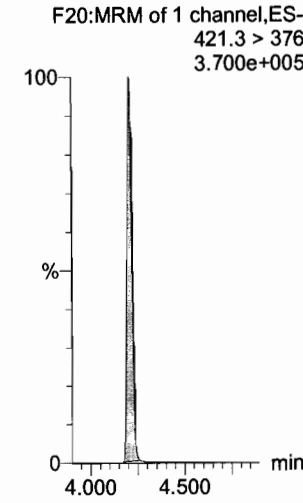
**d7-N-MeFOSE**



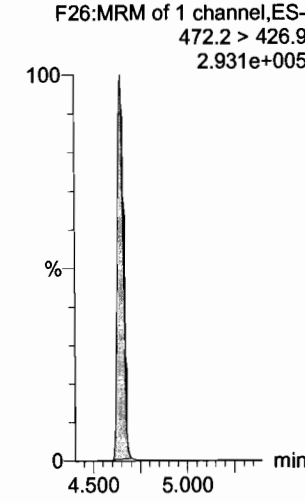
**d9-N-EtFOSE**



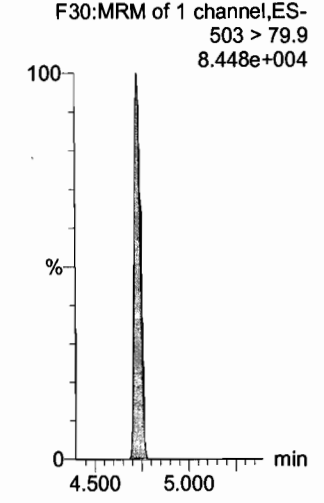
**13C8-PFOA**



**13C9-PFNA**



**13C4-PFOS**





Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

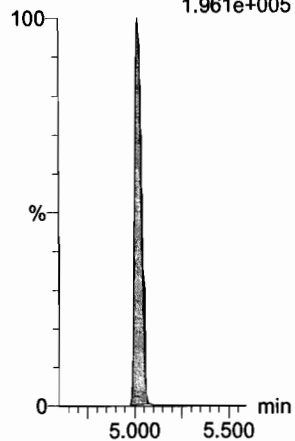
Last Altered: Wednesday, January 03, 2018 10:30:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:37:19 Pacific Standard Time

Name: 180102M2\_9, Date: 02-Jan-2018, Time: 16:54:04, ID: ST180102M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

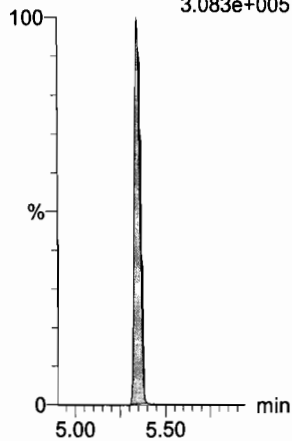
13C6-PFDA

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
1.961e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.083e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

Ⓐ No SS available.

Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS\_FULL\_80C\_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44  
Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

AC  
1/3/18

vJA  
01/03/2018

Name: 180102M2\_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	8.09e3	8.15e3	1.0000		1.47	1.33	12.4	8.859	88.6
2	2 PFPeA	263.1 > 218.9	7.83e3	9.74e3	1.0000		2.35	2.30	10.0	8.087	80.9
3	3 PFBS	299.0 > 79.7	1.58e3	1.28e3	1.0000		2.70	2.58	15.5	7.073	70.7
4	4 PFHxA	313.2 > 268.9	9.42e3	2.95e3	1.0000		3.12	3.07	16.0	8.548	85.5
5	5 PFHpA	363.0 > 318.9	8.17e3	6.97e3	1.0000		3.75	3.69	14.7	9.193	91.9
6	6 L-PFHxS	398.9 > 79.6	1.36e3	1.04e3	1.0000		3.85	3.84	16.4	8.211	82.1
7	8 6:2 FTS	427.1 > 407	2.52e3	1.09e4	1.0000		4.20	4.15	2.88	9.461	94.6
8	9 L-PFOA	413 > 368.7	8.96e3	1.09e4	1.0000		4.25	4.21	10.2	8.001	80.0
9	11 PFHpS	449 > 80.0	1.89e3	1.09e4	1.0000		4.35	4.32	2.15	7.225	72.2
10	12 PFNA	463.0 > 418.8	9.79e3	1.06e4	1.0000		4.70	4.65	11.5	7.994	79.9
11	13 PFOSA	498.1 > 77.8	3.10e3	3.14e3	1.0000		4.81	4.71	12.3	9.112	91.1
12	14 L-PFOS	499 > 79.9	2.28e3	2.59e3	1.0000		4.83	4.73	11.0	10.766	107.7
13	16 PFDA	513 > 468.8	9.04e3	9.42e3	1.0000		5.05	5.02	12.0	7.357	73.6
14	17 8:2 FTS	527 > 506.9	1.87e3	2.59e3	1.0000		5.02	4.99	9.04	7.305	73.1
15	18 N-MeFOSAA	570.1 > 419	5.52e3	4.62e3	1.0000		5.20	5.18	14.9	7.713	77.1
16	19 N-EiFOSAA	584.2 > 419	5.07e3	5.99e3	1.0000		5.42	5.33	10.6	8.013	80.1
17	20 PFUDa	563.0 > 518.9	9.20e3	1.15e4	1.0000		5.35	5.35	9.98	7.868	78.7
18	21 PFDS	598.8 > 80	2.47e3	1.15e4	1.0000		5.50	5.40	2.68	7.669	76.7
19	22 PFDoA	612.9 > 569.0	1.09e4	6.06e3	1.0000		5.70	5.63	22.5	9.193	91.9
20	23 N-MeFOSA	512.1 > 168.9		1.60e4	1.0000		5.77				Ⓐ
21	24 PFTrDA	662.9 > 618.9	8.37e3	2.33e3	1.0000		5.95	5.88	45.0	8.028	80.3
22	25 PFTeDA	712.9 > 668.8	4.89e3	2.33e3	1.0000		6.16	6.10	26.3	8.011	80.1
23	26 N-EiFOSA	526.1 > 168.9		2.35e4	1.0000		6.15				Ⓐ
24	27 PFHxDA	813.1 > 768.6		1.83e3	1.0000		6.48				↓
25	28 PFODA	913.1 > 868.8		1.83e3	1.0000		6.70				↓
26	29 N-MeFOSE	616.1 > 58.9		2.51e4	1.0000		6.30				↓
27	30 N-EiFOSE	630.1 > 58.9		2.32e4	1.0000		6.42				↓
28	31 13C3-PFBA	216.1 > 171.8	8.15e3	9.19e3	1.0000	0.775	1.47	1.33	11.1	14.303	114.4
29	32 13C3-PFPeA	266. > 221.8	9.74e3	9.86e3	1.0000	0.805	2.44	2.30	12.4	15.344	122.8
30	33 13C3-PFBS	302. > 98.8	1.28e3	9.86e3	1.0000	0.106	2.70	2.58	1.62	15.245	122.0
31	Work 84 13C2-7F1827	315 > 269.8	2.95e3	9.86e3	1.0000	0.633	3.20	3.07	3.74	5.904	118.8

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Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time

Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

Name: 180102M2\_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

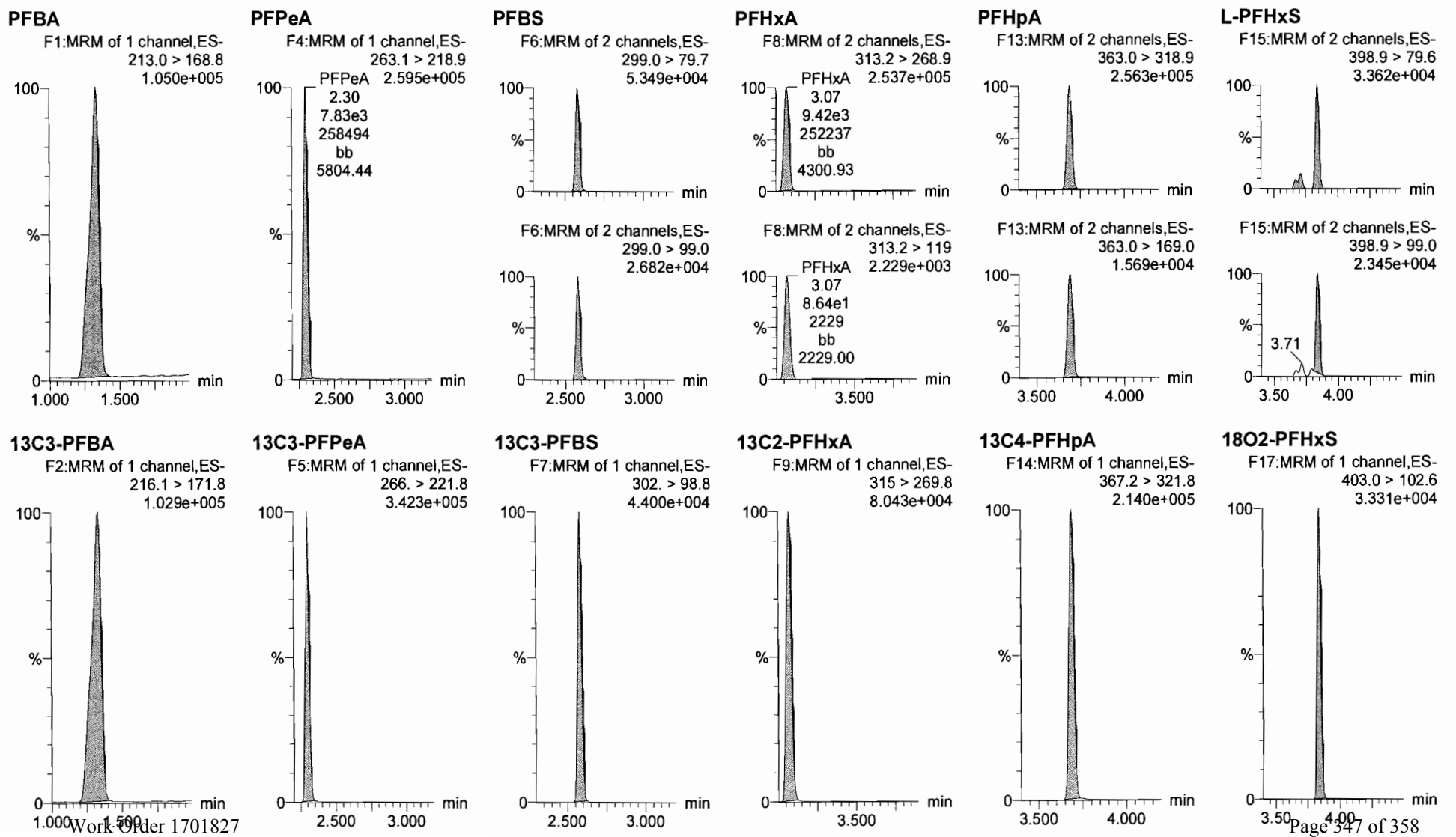
	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	6.97e3	9.86e3	1.0000	0.641	3.80	3.69	8.84	13.790	110.3
33	36 18O2-PFHxS	403.0 > 102.6	1.04e3	2.35e3	1.0000	0.334	3.95	3.84	5.52	16.524	132.2
34	37 13C2-6:2 FTS	429.1 > 408.9	2.84e3	9.09e3	1.0000	0.228	4.26	4.16	3.90	17.084	136.7
35	38 13C2-PFOA	414.9 > 369.7	1.09e4	9.09e3	1.0000	0.959	4.32	4.21	15.0	15.686	125.5
36	39 13C5-PFNA	468.2 > 422.9	1.06e4	1.17e4	1.0000	0.830	4.75	4.65	11.4	13.671	109.4
37	40 13C8-PFOSA	506.1 > 77.7	3.14e3	1.10e4	1.0000	0.262	4.81	4.71	3.57	13.613	108.9
38	41 13C8-PFOS	507.0 > 79.9	2.59e3	2.87e3	1.0000	0.880	4.83	4.73	11.3	12.790	102.3
39	42 13C2-PFDA	515.1 > 469.9	9.42e3	8.61e3	1.0000	0.995	5.11	5.02	13.7	13.749	110.0
40	43 13C2-8:2 FTS	529.1 > 508.7	1.21e3	9.86e3	1.0000	0.142	5.09	4.99	1.54	10.794	86.3
41	44 d3-N-MeFOSAA	573.3 > 419	4.62e3	1.10e4	1.0000	0.376	5.26	5.17	5.25	13.968	111.7
42	45 d5-N-EtFOSAA	589.3 > 419	5.99e3	1.10e4	1.0000	0.444	5.42	5.33	6.80	15.342	122.7
43	46 13C2-PFUdA	565 > 519.8	1.15e4	1.10e4	1.0000	0.889	5.43	5.35	13.1	14.729	117.8
44	47 13C2-PFDoA	615.0 > 569.7	6.06e3	1.10e4	1.0000	0.542	5.70	5.63	6.88	12.696	101.6
45	48 d3-N-MeFOSA	515.2 > 168.9	1.60e4	1.10e4	1.0000	0.117	5.80	5.76	18.1	155.682	103.8
46	49 13C2-PFTeDA	714.8 > 669.6	2.33e3	1.10e4	1.0000	0.230	6.16	6.10	2.64	11.478	91.8
47	50 d5-N-ETFOSA	531.1 > 168.9	2.35e4	1.10e4	1.0000	0.170	6.16	6.16	26.8	157.466	105.0
48	51 13C2-PFHxDA	815 > 769.7	1.83e3	1.10e4	1.0000	0.432	6.48	6.44	2.08	4.805	96.1
49	52 d7-N-MeFOSE	623.1 > 58.9	2.51e4	1.10e4	1.0000	0.161	6.30	6.31	28.5	176.914	117.9
50	53 d9-N-EtFOSE	639.2 > 58.8	2.32e4	1.10e4	1.0000	0.158	6.42	6.46	26.3	166.984	111.3
51	54 13C4-PFBA	217. > 171.8	9.19e3	9.19e3	1.0000	1.000	1.47	1.33	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	9.86e3	9.86e3	1.0000	1.000	3.20	3.07	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	2.35e3	2.35e3	1.0000	1.000	3.95	3.84	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	9.09e3	9.09e3	1.0000	1.000	4.32	4.21	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.17e4	1.17e4	1.0000	1.000	4.75	4.65	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	2.87e3	2.87e3	1.0000	1.000	4.83	4.73	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.61e3	8.61e3	1.0000	1.000	5.11	5.02	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.10e4	1.10e4	1.0000	1.000	5.43	5.35	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

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Calibration: U:\Q4.PRO\CurveDB\C18\_VAL-PFAS\_Q4\_01-02-18\_FULL.cdb 03 Jan 2018 11:12:59

Name: 180102M2\_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

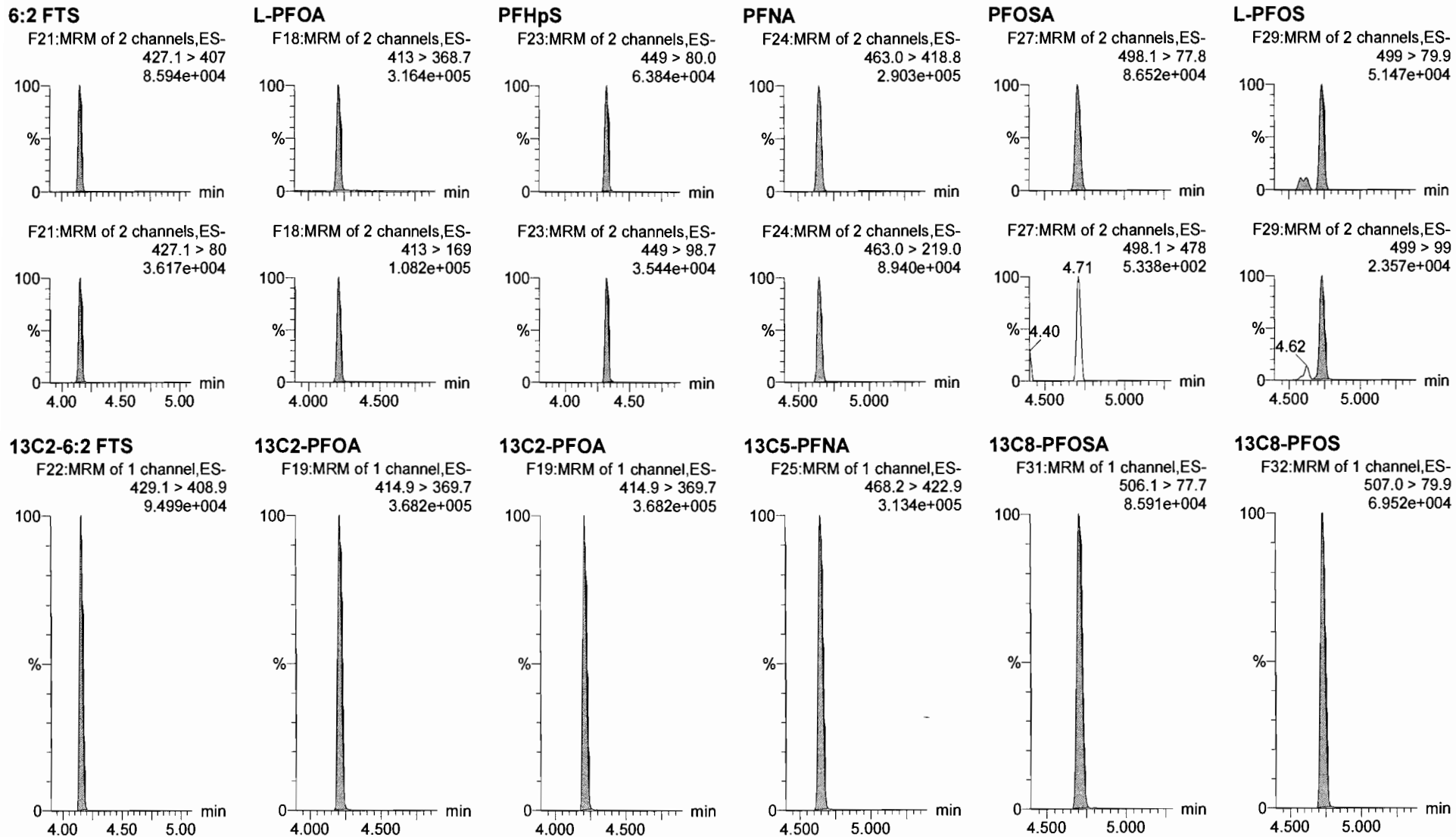


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Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time

Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

Name: 180102M2\_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201



Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

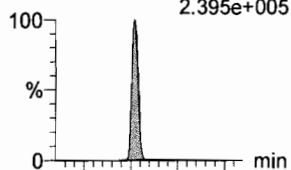
Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time

Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

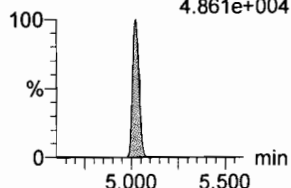
Name: 180102M2\_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

**PFDA**

F34:MRM of 2 channels,ES-  
513 > 468.8  
2.395e+005

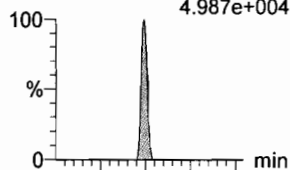


F34:MRM of 2 channels,ES-  
513 > 219  
4.861e+004

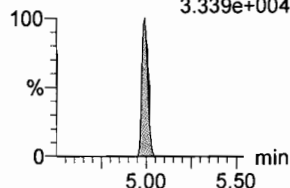


**8:2 FTS**

F39:MRM of 2 channels,ES-  
527 > 506.9  
4.987e+004

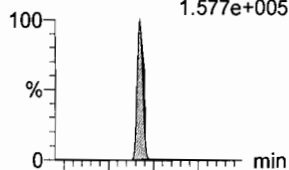


F39:MRM of 2 channels,ES-  
527 > 80  
3.339e+004

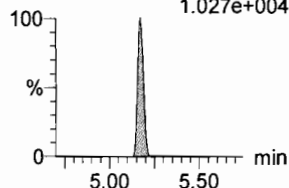


**N-MeFOSAA**

F44:MRM of 2 channels,ES-  
570.1 > 419  
1.577e+005

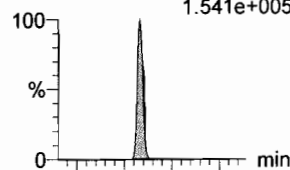


F44:MRM of 2 channels,ES-  
570.1 > 483.0  
1.027e+004

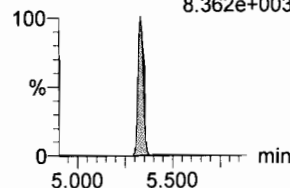


**N-EtFOSAA**

F47:MRM of 2 channels,ES-  
584.2 > 419  
1.541e+005

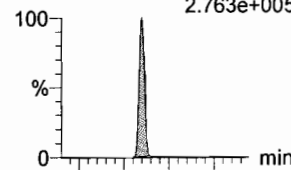


F47:MRM of 2 channels,ES-  
584.2 > 483.0  
8.362e+003

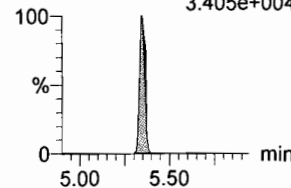


**PFUdA**

F42:MRM of 2 channels,ES-  
563.0 > 518.9  
2.763e+005

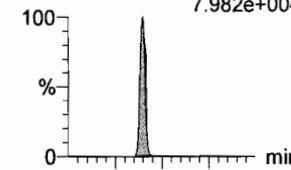


F42:MRM of 2 channels,ES-  
563.0 > 269  
3.405e+004

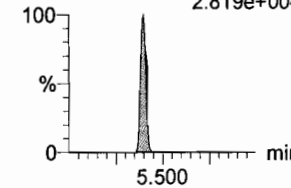


**PFDS**

F49:MRM of 2 channels,ES-  
598.8 > 80  
7.982e+004

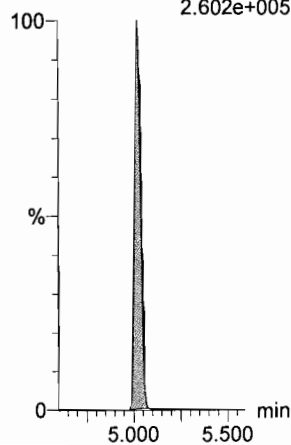


F49:MRM of 2 channels,ES-  
598.8 > 98.7  
2.819e+004



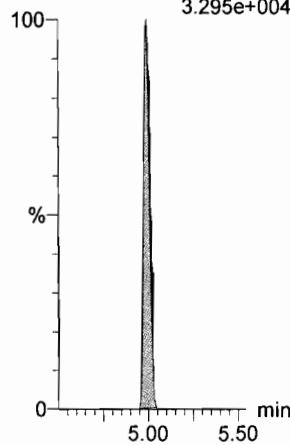
**13C2-PFDA**

F35:MRM of 1 channel,ES-  
515.1 > 469.9  
2.602e+005



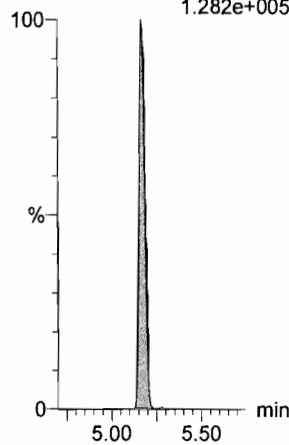
**13C2-8:2 FTS**

F40:MRM of 1 channel,ES-  
529.1 > 508.7  
3.295e+004



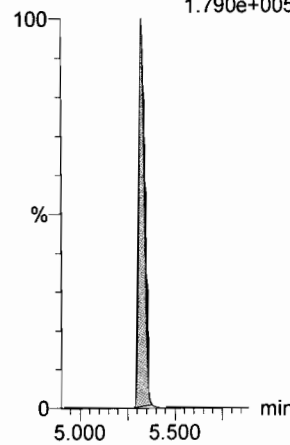
**d3-N-MeFOSAA**

F46:MRM of 1 channel,ES-  
573.3 > 419  
1.282e+005



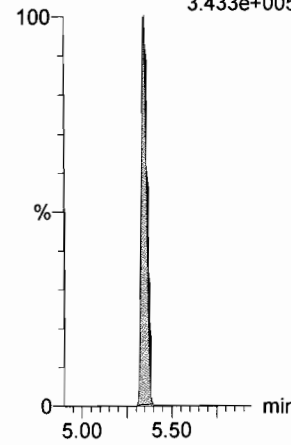
**d5-N-EtFOSAA**

F48:MRM of 1 channel,ES-  
589.3 > 419  
1.790e+005



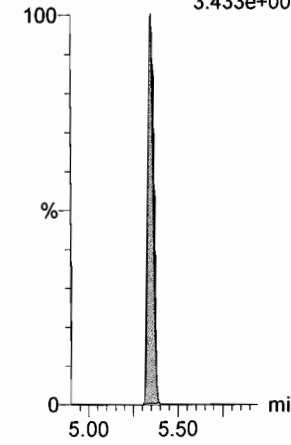
**13C2-PFUdA**

F43:MRM of 1 channel,ES-  
565 > 519.8  
3.433e+005



**13C2-PFUdA**

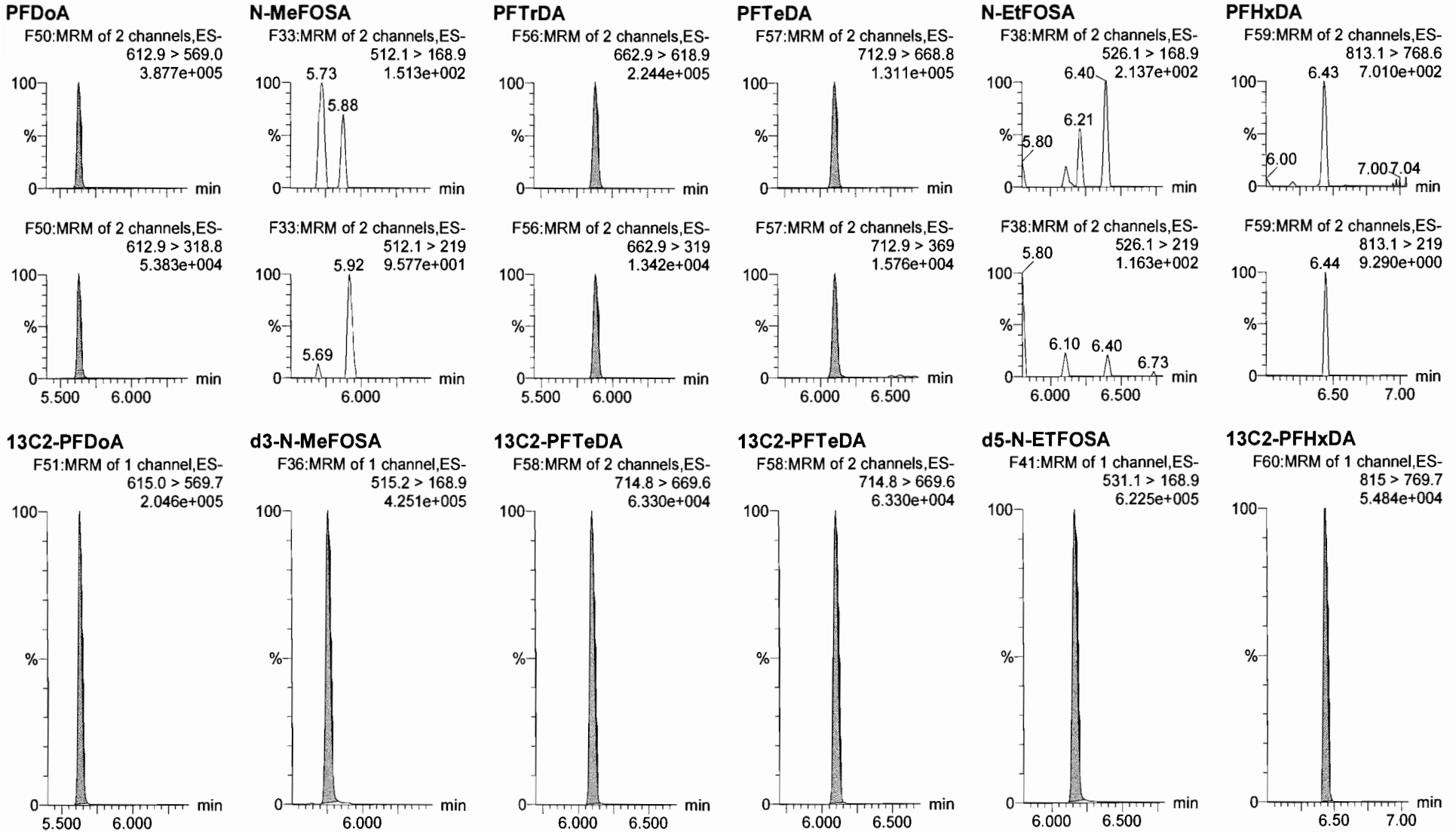
F43:MRM of 1 channel,ES-  
565 > 519.8  
3.433e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time  
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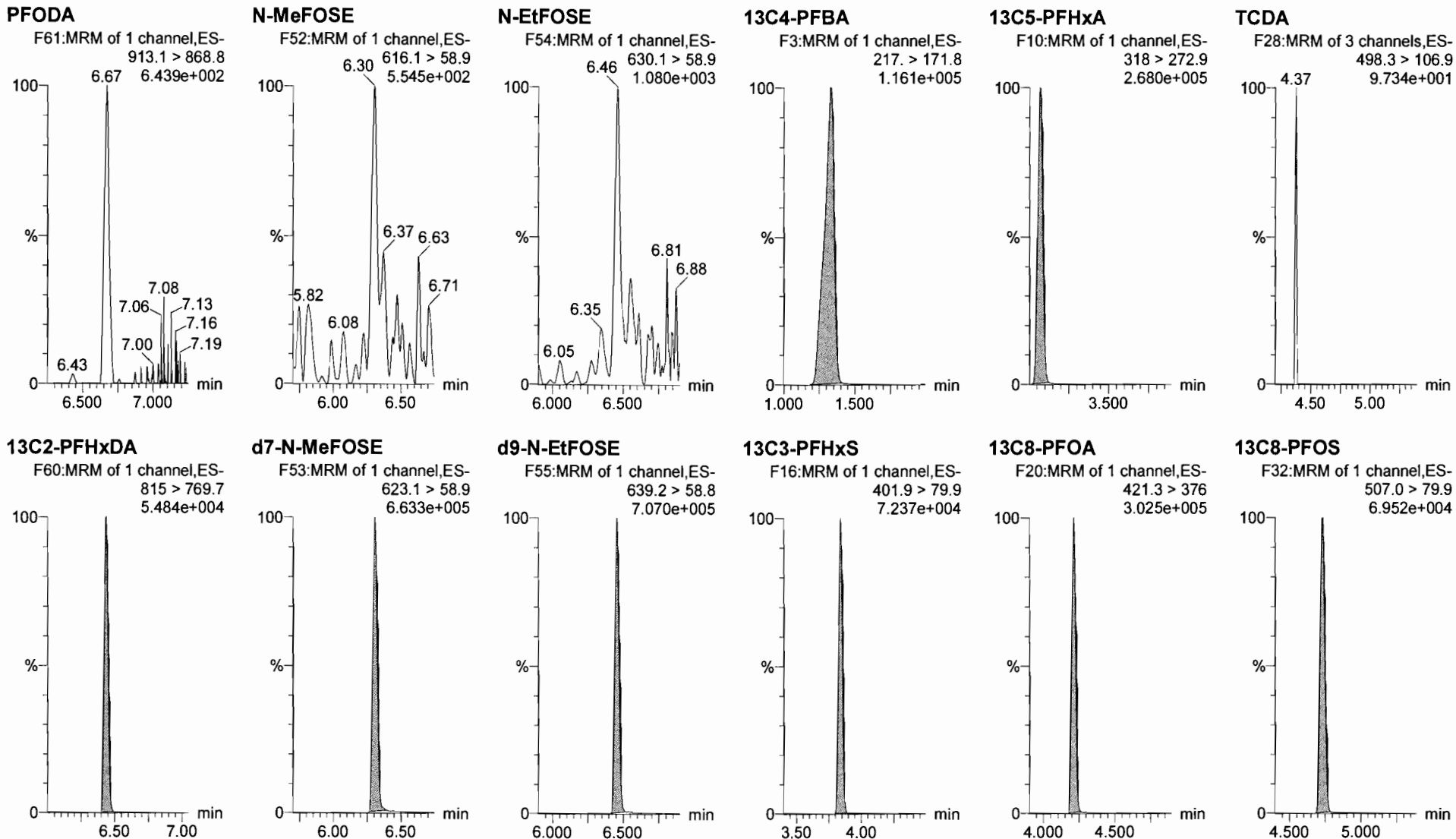
Name: 180102M2\_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201



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Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time  
Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

Name: 180102M2\_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201





Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

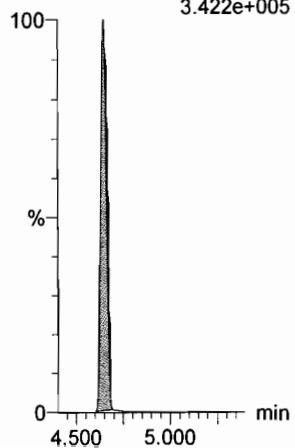
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Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

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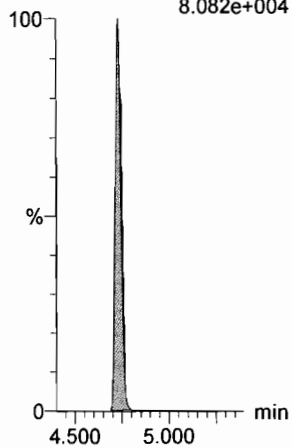
**13C9-PFNA**

F26:MRM of 1 channel,ES-  
472.2 > 426.9  
3.422e+005



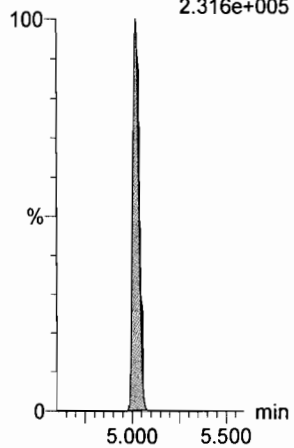
**13C4-PFOS**

F30:MRM of 1 channel,ES-  
503 > 79.9  
8.082e+004



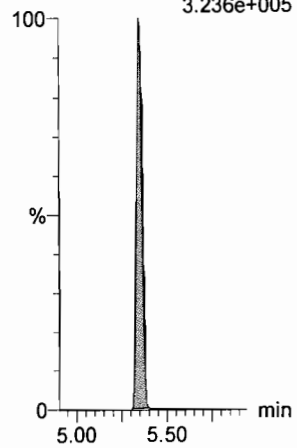
**13C6-PFDA**

F37:MRM of 1 channel,ES-  
519.1 > 473.7  
2.316e+005



**13C7-PFUdA**

F45:MRM of 1 channel,ES-  
570.1 > 524.8  
3.236e+005



Dataset: U:\Q4.PRO\results\180102M2\180102M2-12.qld

Last Altered: Wednesday, January 03, 2018 11:01:34 Pacific Standard Time

Printed: Wednesday, January 03, 2018 11:02:35 Pacific Standard Time

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**PFBA**

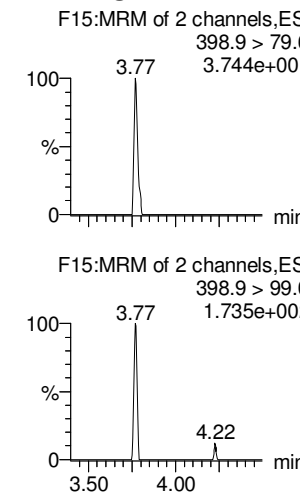
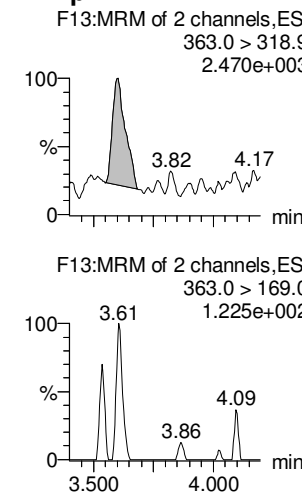
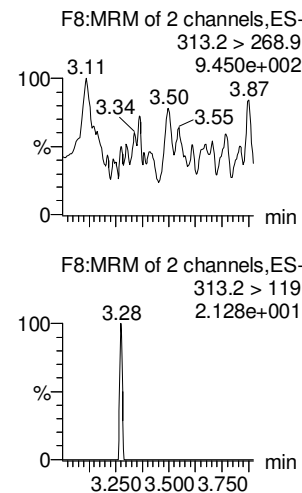
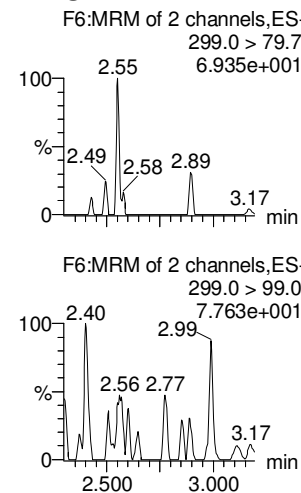
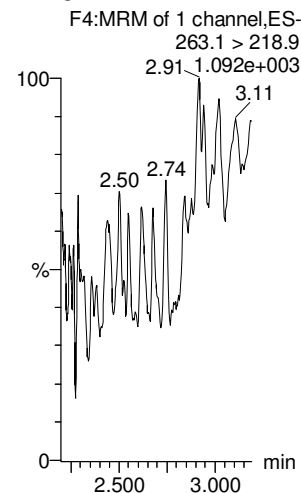
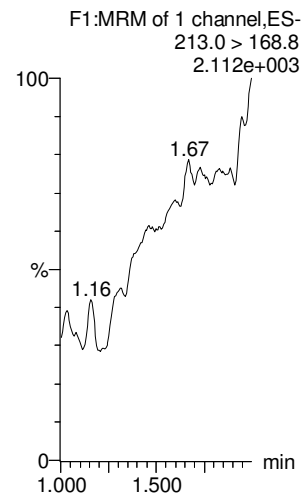
**PFPeA**

**PFBS**

**PFHxA**

**PFHpA**

**L-PFHxS**



**13C3-PFBA**

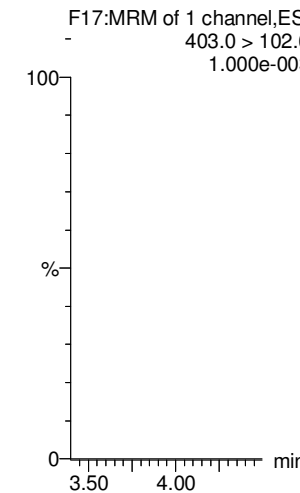
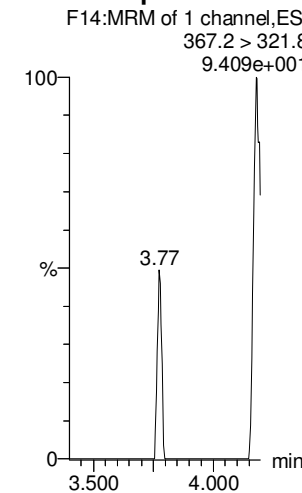
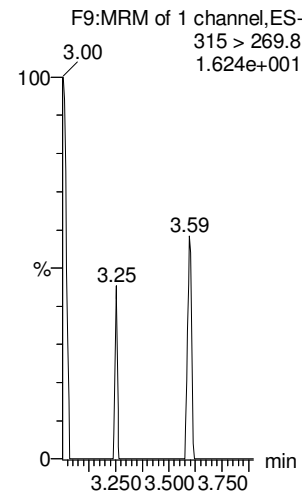
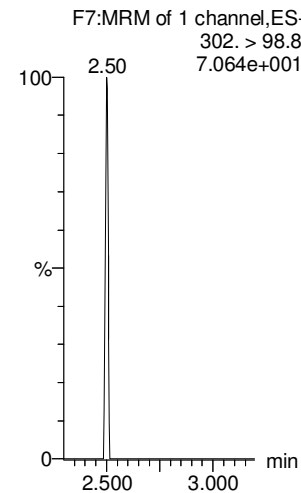
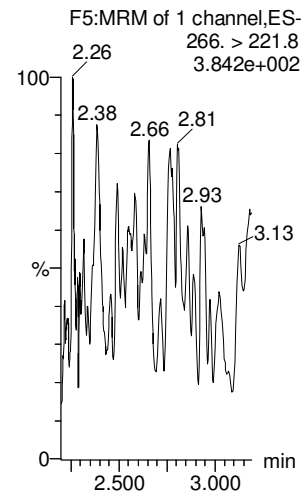
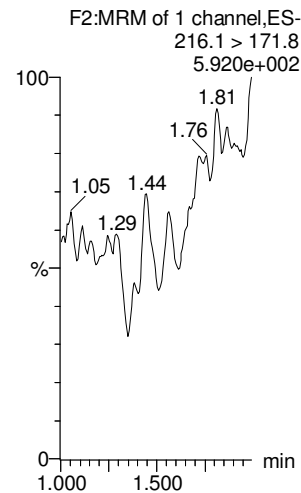
**13C3-PFPeA**

**13C3-PFBS**

**13C2-PFHxA**

**13C4-PFHpA**

**18O2-PFHxS**



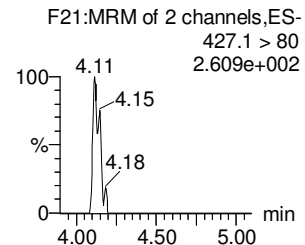
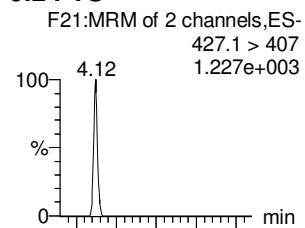
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Last Altered: Wednesday, January 03, 2018 11:01:34 Pacific Standard Time

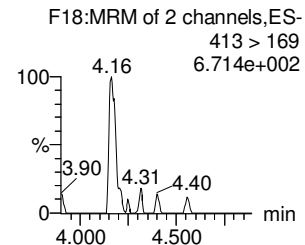
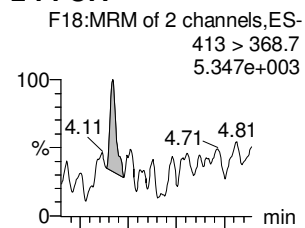
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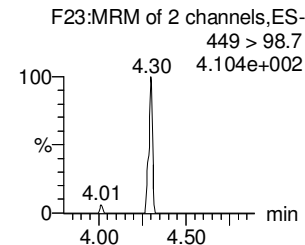
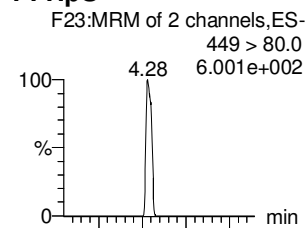
**6:2 FTS**



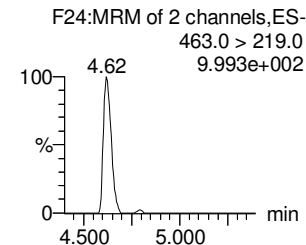
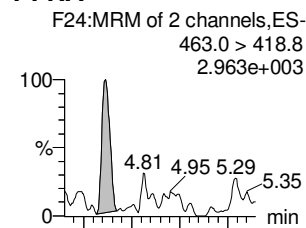
**L-PFOA**



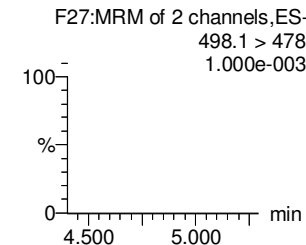
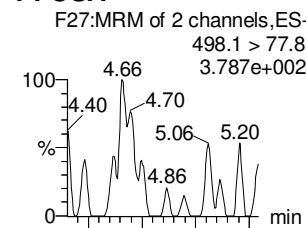
**PFHpS**



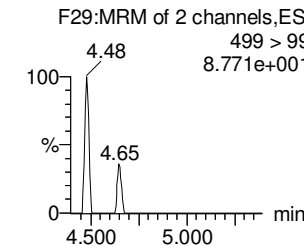
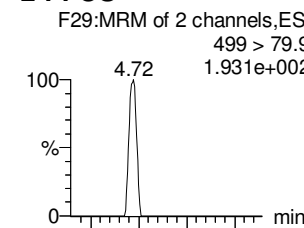
**PFNA**



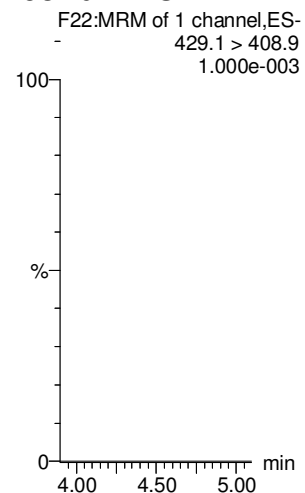
**PFOSA**



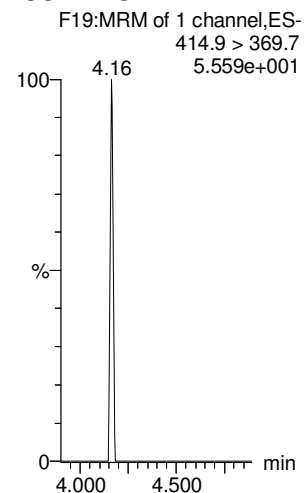
**L-PFOS**



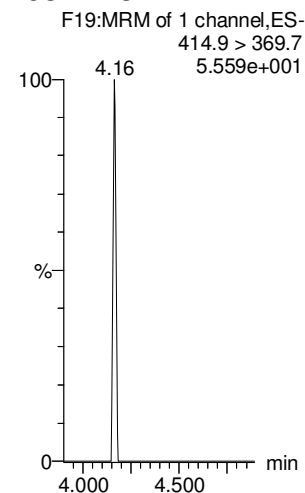
**13C2-6:2 FTS**



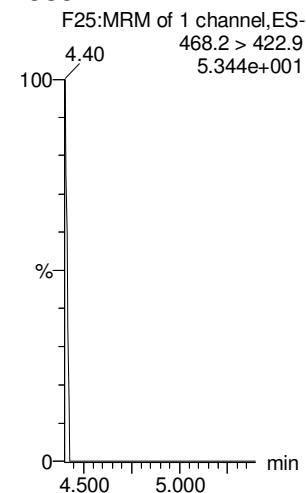
**13C2-PFOA**



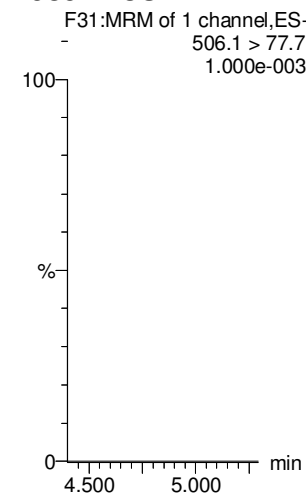
**13C2-PFOA**



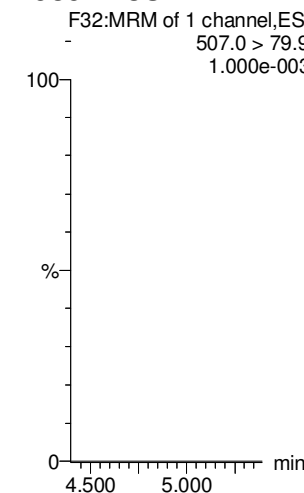
**13C5-PFNA**



**13C8-PFOSA**



**13C8-PFOS**



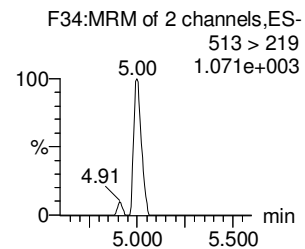
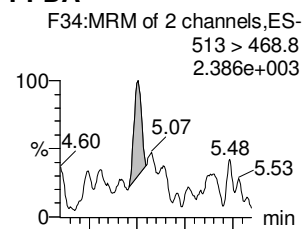
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Last Altered: Wednesday, January 03, 2018 11:01:34 Pacific Standard Time

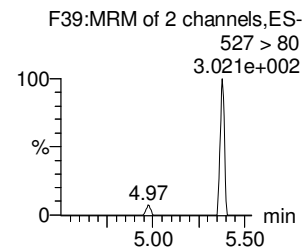
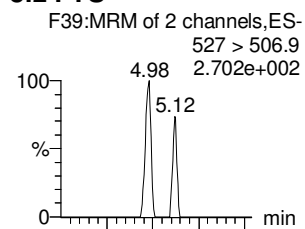
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Name: 180102M2\_12, Date: 02-Jan-2018, Time: 17:27:37, ID: IPA, Description: IPA

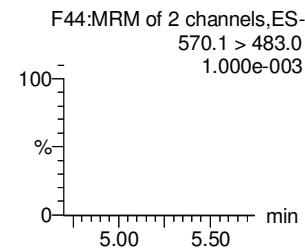
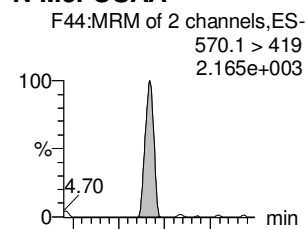
**PFDA**



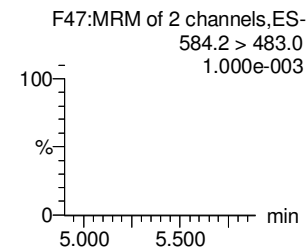
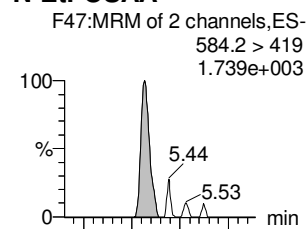
**8:2 FTS**



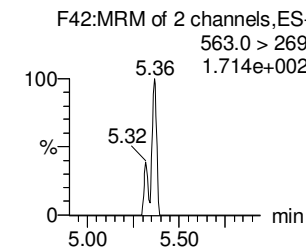
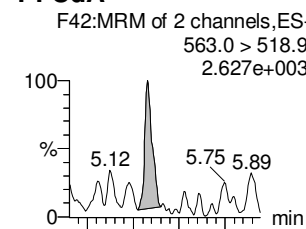
**N-MeFOSAA**



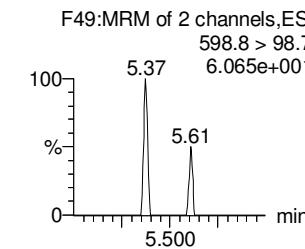
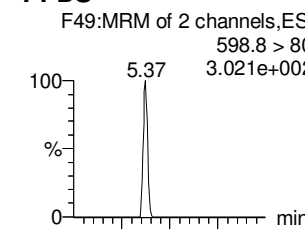
**N-EtFOSAA**



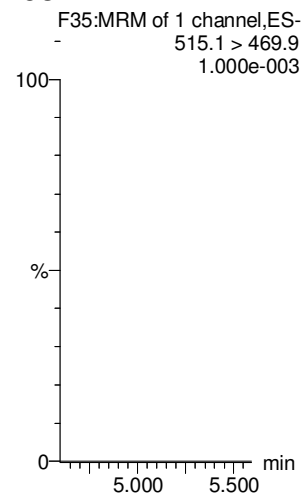
**PFUdA**



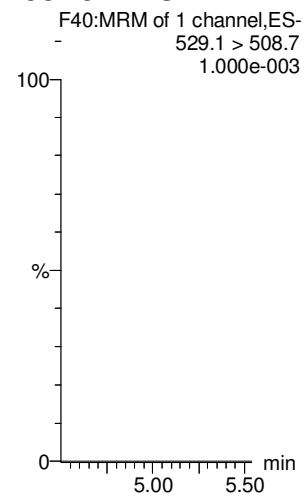
**PFDS**



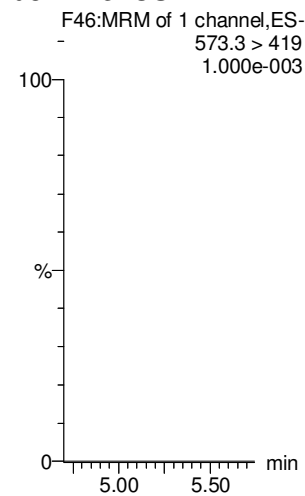
**13C2-PFDA**



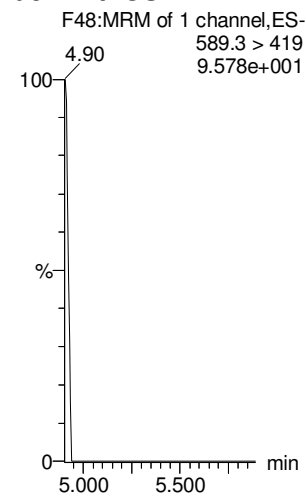
**13C2-8:2 FTS**



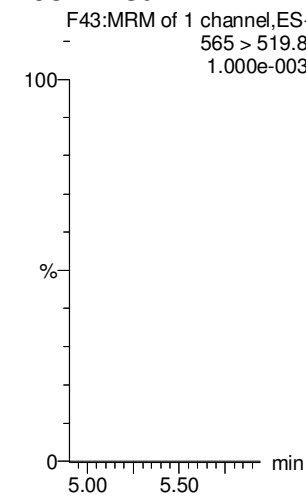
**d3-N-MeFOSAA**



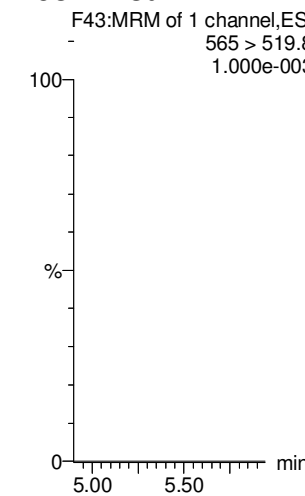
**d5-N-EtFOSAA**



**13C2-PFUdA**



**13C2-PFUdA**



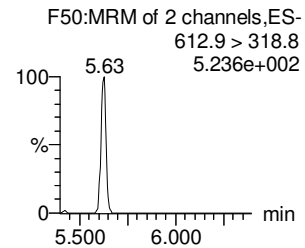
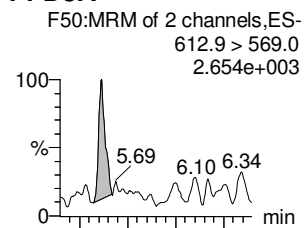
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Last Altered: Wednesday, January 03, 2018 11:01:34 Pacific Standard Time

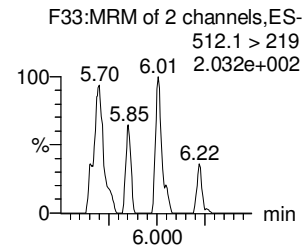
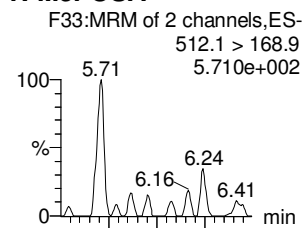
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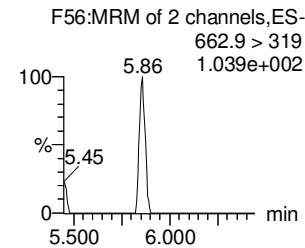
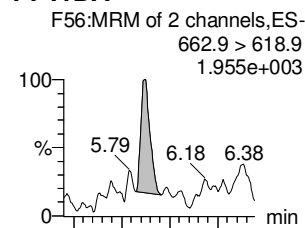
**PFDaA**



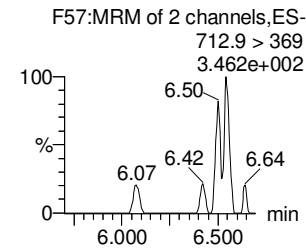
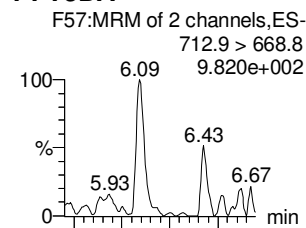
**N-MeFOSA**



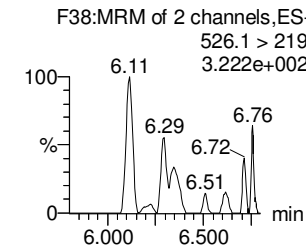
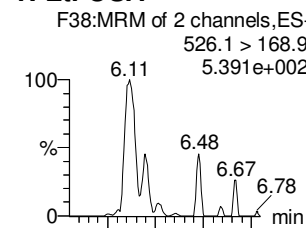
**PFTrDA**



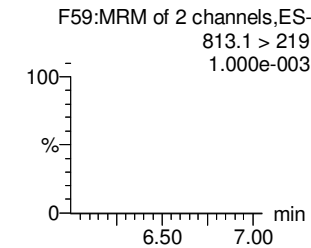
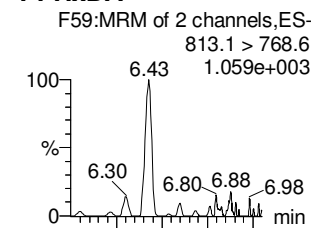
**PFTeDA**



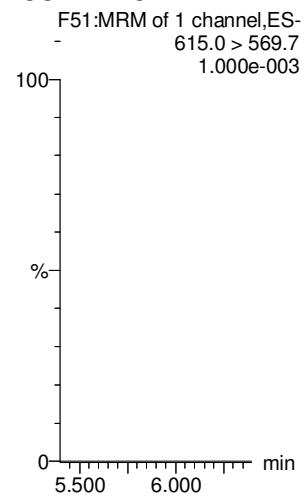
**N-EtFOSA**



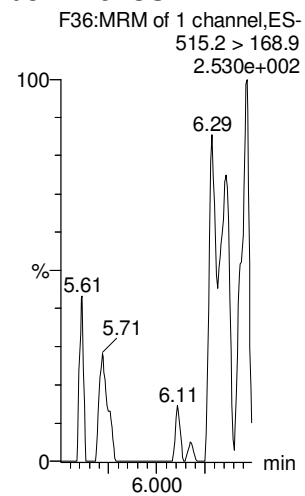
**PFHxDA**



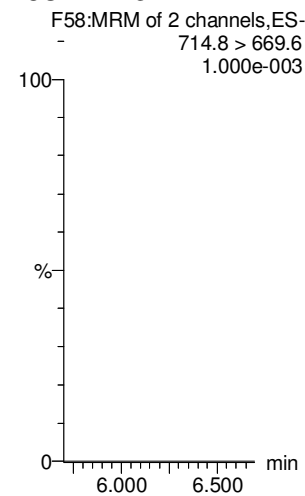
**13C2-PFDaA**



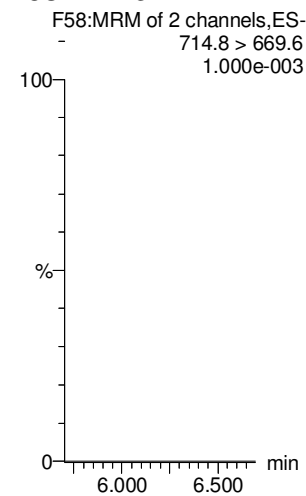
**d3-N-MeFOSA**



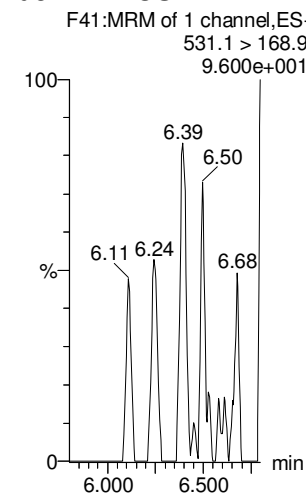
**13C2-PFTeDA**



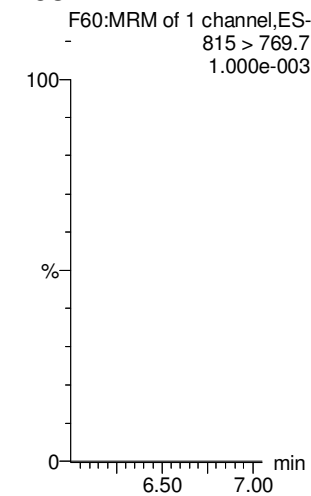
**13C2-PFTeDA**



**d5-N-ETFOSA**



**13C2-PFHxDA**



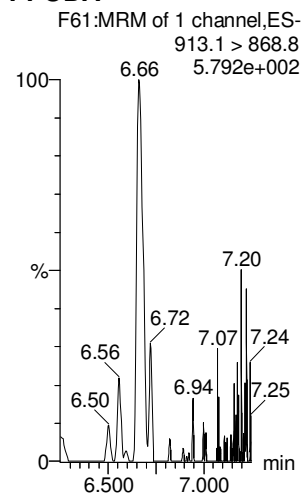
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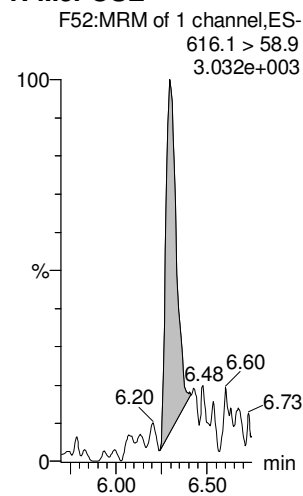
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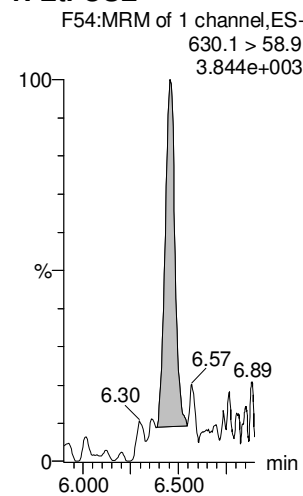
**PFODA**



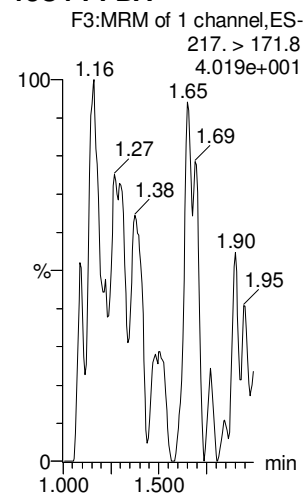
**N-MeFOSE**



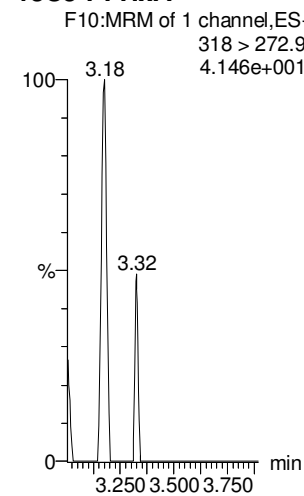
**N-EtFOSE**



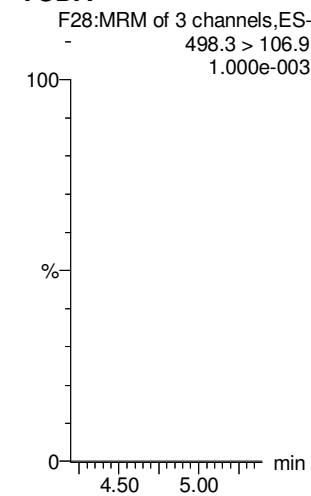
**13C4-PFBA**



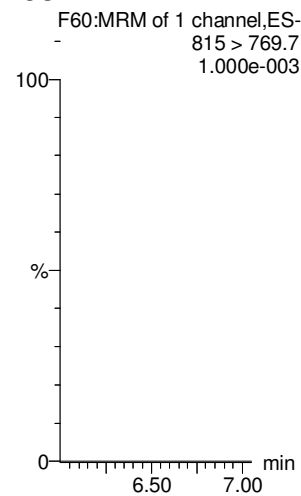
**13C5-PFHxA**



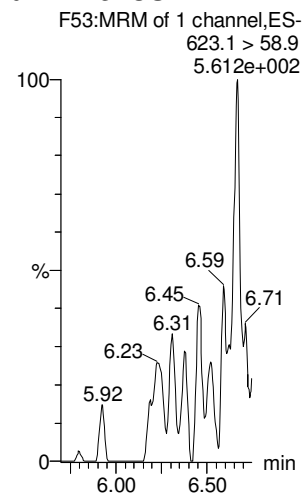
**TCDA**



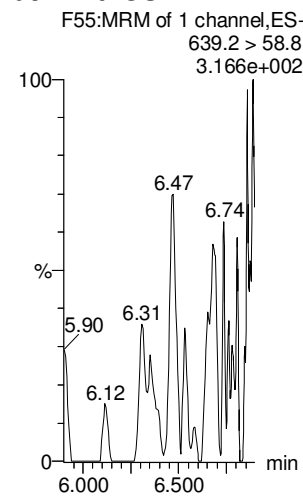
**13C2-PFHxDA**



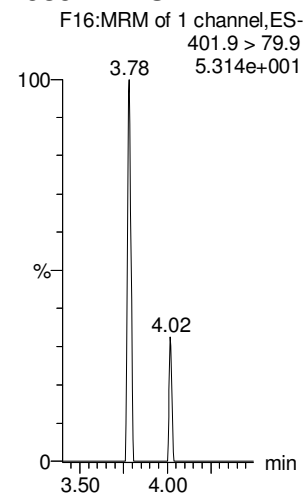
**d7-N-MeFOSE**



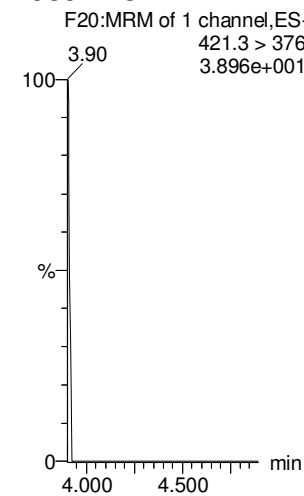
**d9-N-EtFOSE**



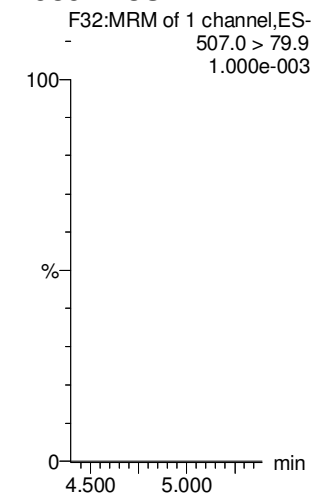
**13C3-PFHxA**



**13C8-PFOA**



**13C8-PFOS**



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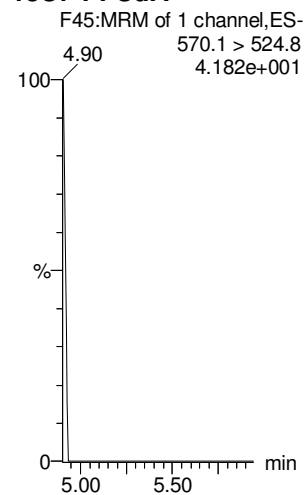
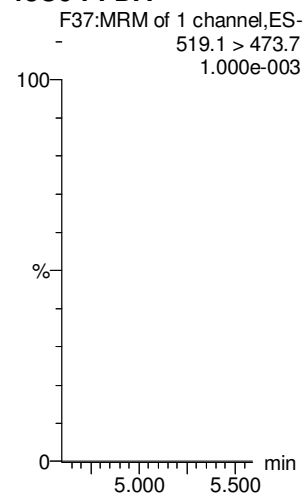
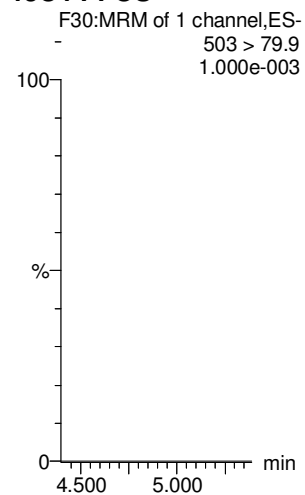
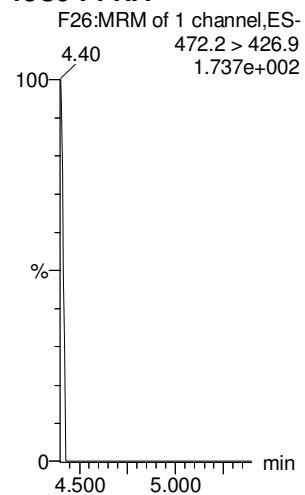
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13C9-PFNA

13C4-PFOS

13C6-PFDA

13C7-PFUdA







**DATA VALIDATION SUMMARY REPORT  
NORFOLK NAVAL SHIPYARD, VIRGINIA**

Client: CH2M HILL, Inc., Virginia Beach, Virginia  
SDG: 1701827  
Laboratory: Vista Analytical Laboratory, El Dorado Hills, California  
Site: Norfolk Naval Shipyard, CTO-WE58, OU7, Norfolk, Virginia  
Date: March 12, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IR03-EB01-113017	1701827-01	Water

A full data validation was performed on the analytical data for one aqueous equipment blank sample collected on November 30, 2017 by CH2M HILL at the Norfolk Naval Shipyard site in Norfolk, Virginia. The samples were analyzed under the EPA Method "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".

Specific method references are as follows:

Analysis  
PFCs

Method References  
USEPA Method 537 Modified

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM), Version 5.0 (July 2013) and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

***Organics***

- Date Completeness, Case Narrative & Custody Documentation
- Holding times
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries

- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

A full (Level IV) data validation was performed with this review including a recalculation of 10% of the detected results in the samples.

### **Data Usability Assessment**

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

### **Perfluorinated Compounds (PFCs)**

### **Data Completeness, Case Narrative & Custody Documentation**

- The case narrative and chain-of-custody documentation were included in the data package as required. All criteria were met.

### **Holding Times**

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

### **LC/MS Tuning**

- All criteria were met.

### **Initial Calibration**

- All relative standard deviation (%RSD) and/or correlation coefficients criteria were met.

### **Continuing Calibration**

- All percent recovery (%R) and RRF criteria were met.

### Method Blank

- The method blanks were free of contamination.

### Field QC Blank

- Field QC samples were free of contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
IR03-EB01-113017	None - ND	-	-	-

### Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

### Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples were not analyzed.

### Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

### Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

### Target Compound Identification

- All mass spectra and quantitation criteria were met.

### Compound Quantitation

- All criteria were met.

### Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver  
Nancy Weaver  
Senior Chemist

Dated: 3/12/18

<b>Data Qualifier</b>	<b>Definition</b>
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.



**Sample ID: IR03-EB01-113017**

**Modified EPA Method 537**

<b>Client Data</b>		<b>Laboratory Data</b>	
Name: CH2M Hill	Matrix: Aqueous	Lab Sample: 1701827-01	Column: BEH C18
Project: NNSY OU7 WE58	Date Collected: 30-Nov-17 13:08	Date Received: 01-Dec-17 09:40	

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.900	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHxA	ND	1.10	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHpA	ND	0.297	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFHxS	ND	0.476	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOA	ND	0.327	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFOS	ND	0.406	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFNA	ND	0.407	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFDA	ND	0.749	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
MeFOSAA	ND	0.830	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFUnA	ND	0.528	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
EtFOSAA	ND	0.689	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFDoA	ND	0.398	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFTtDA	ND	0.248	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
PFTeDA	ND	0.380	2.51	4.02		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
I3C3-PFBS	IS	130	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C2-PFHxA	IS	110	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C4-PFHpA	IS	111	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I8O2-PFHxS	IS	115	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C2-PFOA	IS	94.1	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C8-PFOS	IS	98.0	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C5-PFNA	IS	110	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C2-PFDA	IS	109	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
d3-MeFOSAA	IS	138	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C2-PFUnA	IS	108	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
d5-EtFOSAA	IS	131	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C2-PFDoA	IS	101	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1
I3C2-PFTeDA	IS	118	50 - 150		B7L0037	11-Dec-17	0.249 L	04-Jan-18 13:41	1

DL - Detection Limit  
 LOD - Limit of Detection  
 LOQ - Limit of quantitation  
 LCL-UCL - Lower control limit - upper control limit  
 Result is 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.

nw 3/8/18

