



**Groundwater Sample Results,
Level 2 Laboratory Report, Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 1701886**

*Naval Weapons Station Yorktown
Yorktown, Virginia*

July 2019

January 17, 2018

Vista Work Order No. 1701886

Ms. Tammy Carey
CH2M Hill
25 West Cedar Street, Suite 350
Pensacola, FL 32502

Dear Ms. Carey,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on December 07, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'NWS Yorktown/ 680536'.

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

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

Sincerely,



Martha Maier
Laboratory Director



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

Vista Work Order No. 1701886

Case Narrative

Sample Condition on Receipt:

Three aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. A sample ID discrepancy was noted: the ID listed as "YS22-AQ-120517" on the CoC was labeled "YS22-AQ-120617" on the sample container. The client was notified and the sample ID is reported as listed on the CoC.

Analytical Notes:

Modified EPA Method 537

Sample "YS22-GW18-1217" contained particulate and was centrifuged prior to extraction.

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

Holding Times

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

Quality Control

The Initial Calibration met the method acceptance criteria. The recoveries of PFDoA and PFTrDA were > 130% in an associated Continuing Calibration Verification; these analytes were not detected in the samples. All other recoveries were within the 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 recovery PFDoA was 135% in the LCSD. This analyte was not detected in the samples. The recoveries of all other analytes were within the acceptance criteria.

The extracts of samples "YS22-AQ-120517" and "YS22-GW18-1217", as well as the Method Blank, were re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The results were similar in the second injections. The results from the original injections have been reported.

The labeled standard recoveries were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701886-01	YS22-EB01-120417	04-Dec-17 16:00	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701886-02	YS22-AQ-120517	05-Dec-17 08:45	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701886-03	YS22-GW18-1217	04-Dec-17 17:20	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	CH2M Hill	Matrix:	Aqueous		Lab Sample:	B7L0120-BLK1	Column:	BEH C18		
Project:	NWS Yorktown/ 680536									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.895	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFHxA	ND	1.09	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFHpA	ND	0.296	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFHxS	ND	0.474	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFOA	ND	0.326	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFOS	ND	0.404	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFNA	ND	0.405	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFDA	ND	0.745	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
MeFOSAA	ND	0.825	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFUnA	ND	0.525	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
EtFOSAA	ND	0.685	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFDaA	ND	0.396	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFTTrDA	ND	0.247	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
PFTeDA	ND	0.378	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	128	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C2-PFHxA	IS	118	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C4-PFHpA	IS	124	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
18O2-PFHxS	IS	91.7	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C2-PFOA	IS	118	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C8-PFOS	IS	131	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C5-PFNA	IS	108	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C2-PFDA	IS	95.7	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
d3-MeFOSAA	IS	80.5	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C2-PFUnA	IS	76.2	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
d5-EtFOSAA	IS	91.0	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C2-PFDaA	IS	88.5	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1
13C2-PFTeDA	IS	98.8	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: LCSD										Modified EPA Method 537					
Name: CH2M Hill Project: NWS Yorktown/ 680536 Matrix: Aqueous				Lab Sample: B7L0120-BS1/B7L0120-BSD1 QC Batch: B7L0120 Samp Size: 0.250/0.250 L				Date Extracted: 18-Dec-17 Column: BEH C18							
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	38.7	40.0	96.7		42.6	40.0	107	9.69		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFHxA	35.4	40.0	88.5		35.7	40.0	89.2	0.823		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFHpA	33.4	40.0	83.5		37.1	40.0	92.7	10.4		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFHxS	36.3	40.0	90.7		44.6	40.0	112	20.5		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFOA	39.4	40.0	98.6		37.4	40.0	93.5	5.37		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFOS	37.9	40.0	94.8		34.4	40.0	86.0	9.73		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFNA	28.8	40.0	72.1		31.5	40.0	78.8	8.89		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFDA	34.4	40.0	86.1		35.6	40.0	89.0	3.31		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
MeFOSAA	42.9	40.0	107		35.1	40.0	87.8	19.9		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFUnA	34.5	40.0	86.2		38.6	40.0	96.5	11.3		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
EtFOSAA	34.3	40.0	85.8		35.0	40.0	87.6	2.04		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFDaA	47.8	40.0	119		54.1	40.0	135	12.4	H	70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFTTrDA	44.2	40.0	110		35.7	40.0	89.2	21.3		60-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFTeDA	29.5	40.0	73.7		29.3	40.0	73.4	0.528		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
Labeled Standards	Type		LCS % Rec	LCS Quals			LCSD % Rec		LCSD Quals	Limits		LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS		116				119			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFHxA	IS		114				123			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C4-PFHpA	IS		116				113			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
18O2-PFHxS	IS		120				96.7			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFOA	IS		116				108			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C8-PFOS	IS		116				118			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C5-PFNA	IS		107				105			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFDA	IS		114				99.4			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
d3-MeFOSAA	IS		80.0				90.5			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFUnA	IS		85.9				73.7			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
d5-EtFOSAA	IS		85.0				88.4			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFDaA	IS		78.4				80.1			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFTeDA	IS		98.9				85.5			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1

Sample ID: YS22-EB01-120417
Modified EPA Method 537

Client Data					Laboratory Data				
Name:	CH2M Hill	Matrix:	Aqueous		Lab Sample:	1701886-01	Column:	BEH C18	
Project:	NWS Yorktown/ 680536	Date Collected:	04-Dec-17 16:00		Date Received:	07-Dec-17 09:23			
Location:	Site 22								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHxA	ND	2.32	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHpA	ND	0.629	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHxS	ND	1.01	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFOA	ND	0.693	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFOS	ND	0.859	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFNA	ND	0.862	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFDA	ND	1.59	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
MeFOSAA	ND	1.76	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFUnA	ND	1.12	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
EtFOSAA	ND	1.46	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFDaA	ND	0.843	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFTDA	ND	0.526	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFTeDA	ND	0.803	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	110	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFHxA	IS	104	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C4-PFHpA	IS	118	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
18O2-PFHxS	IS	105	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFOA	IS	102	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C8-PFOS	IS	105	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C5-PFNA	IS	89.0	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFDA	IS	79.6	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
d3-MeFOSAA	IS	95.0	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFUnA	IS	87.5	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
d5-EtFOSAA	IS	103	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFDaA	IS	81.4	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFTeDA	IS	98.3	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: YS22-AQ-120517
Modified EPA Method 537

Client Data					Laboratory Data				
Name:	CH2M Hill	Matrix:	Aqueous		Lab Sample:	1701886-02	Column:	BEH C18	
Project:	NWS Yorktown/ 680536	Date Collected:	05-Dec-17 08:45		Date Received:	07-Dec-17 09:23			
Location:	Site 22								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.05	1.90	5.30	8.47	J	B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHxA	3.55	2.31	5.30	8.47	J	B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHpA	ND	0.626	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHxS	15.5	1.00	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFOA	ND	0.690	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFOS	11.1	0.855	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFNA	ND	0.858	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFDA	ND	1.58	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
MeFOSAA	ND	1.75	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFUnA	ND	1.11	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
EtFOSAA	ND	1.45	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFDaA	ND	0.839	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFTDA	ND	0.523	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFTeDA	ND	0.800	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	121	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFHxA	IS	121	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C4-PFHpA	IS	119	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
18O2-PFHxS	IS	94.1	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFOA	IS	112	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C8-PFOS	IS	109	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C5-PFNA	IS	119	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFDA	IS	98.1	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
d3-MeFOSAA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFUnA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
d5-EtFOSAA	IS	122	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFDaA	IS	109	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFTeDA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	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.

Sample ID: YS22-GW18-1217						Modified EPA Method 537					
Client Data Name: CH2M Hill Project: NWS Yorktown/ 680536 Location: Site 22						Laboratory Data Lab Sample: 1701886-03 Date Received: 07-Dec-17 09:23 Column: BEH C18					
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBS	ND	1.88	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFHxA	ND	2.28	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFHpA	ND	0.619	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFHxS	ND	0.992	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFOA	ND	0.682	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFOS	ND	0.846	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFNA	ND	0.849	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFDA	ND	1.56	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
MeFOSAA	ND	1.73	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFUnA	ND	1.10	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
EtFOSAA	ND	1.44	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFDaA	ND	0.830	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFTDA	ND	0.518	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
PFTeDA	ND	0.791	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	120	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFHxA	IS	110	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C4-PFHpA	IS	130	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
18O2-PFHxS	IS	119	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFOA	IS	99.3	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C8-PFOS	IS	98.3	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C5-PFNA	IS	92.9	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFDA	IS	106	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
d3-MeFOSAA	IS	96.1	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFUnA	IS	88.9	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
d5-EtFOSAA	IS	92.2	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFDaA	IS	90.2	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFTeDA	IS	100	50 - 150			B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	

DL - Detection Limit

 LOD - Limit of Detection
 LOQ - Limit of quantitation

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

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
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.



For Laboratory Use Only

Work Order #: 1701886 Temp: 0.0 °

Storage ID: WR-2 Storage Secured: Yes ☒ No ☐

PO#:

Sampler: Alyson Shurtz
(name)

TAT Standard: ☐ 21 days
(check one): Rush (surcharge may apply)
☐ 14 days ☐ 7 days Specify: *As per contract*

Invoice to: Name		Company	Address		City	State	Ph#	Fax#
C		Company	Address		City	State	Ph#	Fax#

Company
Tommy Carey CH2M

Relinquished by (printed name and signature)

Date _____

Time

Received by (printed name and signature)

850-396-4928

Date: / Time:

Alyson Shumatz

12-6-17

1200

Signature: D. E. Koehn Date: 12/07/17 Time: 0945

Relinquished by (printed name and signature)

Date _____

Time

Received by (printed name and signature)

Date _____ Time _____

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

ATTN: _____

Method of Shipment:

Tracking No.:

Add Analysis(es) Requested

Container(s)

Mod. EPA
Method 537EPA Method
821-D (DW only)[illegible]

Special Instructions/Comments:

SEND
DOCUMENTATION
AND RESULTS TO:

Name: _____
 Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Fax: _____
 Email: _____

Container Types: P= HDPE, PJ= HDPE Jar
O = Other:

Bottle Preservation Type: T = Thiosulfate,
TZ = Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other.

Sample Log-in Checklist

Vista Work Order #: 1701886 TAT 28

Samples Arrival:	Date/Time 12/07/17 0923	Initials: BMB	Location: WR-2 Shelf/Rack: N4
Logged In:	Date/Time 12/07/17 1600	Initials: SR	Location: WR-2 Shelf/Rack: E3
Delivered By:	☒ FedEx	☐ UPS	☐ On Trac
	☐ GSO	☐ DHL	☐ Hand Delivered
Preservation:	☒ Ice	☐ Blue Ice	☐ Dry Ice
Temp °C: 0.0 (uncorrected)	Time: 0954		Thermometer ID: DT3-IR1
Temp °C: 0.0 (corrected)	Probe used: Yes ☒ No ☐		

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 7887 9076 9864	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?		✓		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				✓
Preservation Documented:	Na ₂ S ₂ O ₃	Trizma	☒ None	☒ Yes
Shipping Container	☒ Vista	☐ Client	☐ Retain	☐ Return
				☐ Dispose

Comments: COC ID:
YS22-AQ-120517

Sample Container ID:
YS22-AQ-120617

Chain of Custody Anomaly/Sample Acceptance Form



CH2M Hill
Tammy Carey
tammy.carey@ch2m.com
(850) 396-4928

Workorder Number: 1701886
Date Received: 07-Dec-17 09:23
Documented by/date: S.Roughton 12/07/17

Please review the following information and complete the Client Authorization section. To comply with NELAC regulations, we must receive authorization before proceeding with sample analysis.

Thank you,

Martha Maier
mmaier@vista-analytical.com
916-673-1520

☒ Sample IDs on Chain of Custody do not match Sample Container Labels

Chain of Custody ID	Container Label ID
YS22-AQ-120517	YS22-AQ-120617

Client Authorization

Proceed with Analysis: ☒ YES ☐ NO

Signature and Date Tammy Carey 1/16/18

Client Comments/Instructions Client notified about sample ID discrepancy on 12/11/17;
no response. sample ID on COC used.

January 17, 2018

Vista Work Order No. 1701886

Ms. Tammy Carey
CH2M Hill
25 West Cedar Street, Suite 350
Pensacola, FL 32502

Dear Ms. Carey,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on December 07, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'NWS Yorktown/ 680536'.

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

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

Sincerely,



Martha Maier
Laboratory Director



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

Vista Work Order No. 1701886

Case Narrative

Sample Condition on Receipt:

Three aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. A sample ID discrepancy was noted: the ID listed as "YS22-AQ-120517" on the CoC was labeled "YS22-AQ-120617" on the sample container. The client was notified and the sample ID is reported as listed on the CoC.

Analytical Notes:

Modified EPA Method 537

Sample "YS22-GW18-1217" contained particulate and was centrifuged prior to extraction.

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

Holding Times

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

Quality Control

The Initial Calibration met the method acceptance criteria. The recoveries of PFDoA and PFTrDA were > 130% in an associated Continuing Calibration Verification; these analytes were not detected in the samples. All other recoveries were within the 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 recovery PFDoA was 135% in the LCSD. This analyte was not detected in the samples. The recoveries of all other analytes were within the acceptance criteria.

The extracts of samples "YS22-AQ-120517" and "YS22-GW18-1217", as well as the Method Blank, were re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The results were similar in the second injections. The results from the original injections have been reported.

The labeled standard recoveries were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701886-01	YS22-EB01-120417	04-Dec-17 16:00	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701886-02	YS22-AQ-120517	05-Dec-17 08:45	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1701886-03	YS22-GW18-1217	04-Dec-17 17:20	07-Dec-17 09:23	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537					
Client Data Name: CH2M Hill Project: NWS Yorktown/ 680536						Laboratory Data Lab Sample: B7L0120-BLK1 Column: BEH C18					
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBS	ND	0.895	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFHxA	ND	1.09	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFHpA	ND	0.296	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFHxS	ND	0.474	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFOA	ND	0.326	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFOS	ND	0.404	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFNA	ND	0.405	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFDA	ND	0.745	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
MeFOSAA	ND	0.825	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFUnA	ND	0.525	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
EtFOSAA	ND	0.685	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFDaA	ND	0.396	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFTDA	ND	0.247	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
PFTeDA	ND	0.378	2.50	4.00		B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	128	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C2-PFHxA	IS	118	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C4-PFHpA	IS	124	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
18O2-PFHxS	IS	91.7	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C2-PFOA	IS	118	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C8-PFOS	IS	131	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C5-PFNA	IS	108	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C2-PFDA	IS	95.7	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
d3-MeFOSAA	IS	80.5	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C2-PFUnA	IS	76.2	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
d5-EtFOSAA	IS	91.0	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C2-PFDaA	IS	88.5	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	
13C2-PFTeDA	IS	98.8	50 - 150			B7L0120	18-Dec-17	0.250 L	16-Jan-18 07:18	1	

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: LCSD										Modified EPA Method 537					
Name: CH2M Hill Project: NWS Yorktown/ 680536 Matrix: Aqueous				Lab Sample: B7L0120-BS1/B7L0120-BSD1 QC Batch: B7L0120 Samp Size: 0.250/0.250 L				Date Extracted: 18-Dec-17 Column: BEH C18							
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	38.7	40.0	96.7		42.6	40.0	107	9.69		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFHxA	35.4	40.0	88.5		35.7	40.0	89.2	0.823		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFHpA	33.4	40.0	83.5		37.1	40.0	92.7	10.4		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFHxS	36.3	40.0	90.7		44.6	40.0	112	20.5		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFOA	39.4	40.0	98.6		37.4	40.0	93.5	5.37		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFOS	37.9	40.0	94.8		34.4	40.0	86.0	9.73		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFNA	28.8	40.0	72.1		31.5	40.0	78.8	8.89		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFDA	34.4	40.0	86.1		35.6	40.0	89.0	3.31		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
MeFOSAA	42.9	40.0	107		35.1	40.0	87.8	19.9		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFUnA	34.5	40.0	86.2		38.6	40.0	96.5	11.3		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
EtFOSAA	34.3	40.0	85.8		35.0	40.0	87.6	2.04		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFDaA	47.8	40.0	119		54.1	40.0	135	12.4	H	70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFTTrDA	44.2	40.0	110		35.7	40.0	89.2	21.3		60-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
PFTeDA	29.5	40.0	73.7		29.3	40.0	73.4	0.528		70-130	200	16-Jan-18 06:43	1	16-Jan-18 06:55	1
Labeled Standards	Type		LCS % Rec	LCS Quals			LCSD % Rec		LCSD Quals	Limits		LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS		116				119			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFHxA	IS		114				123			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C4-PFHpA	IS		116				113			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
18O2-PFHxS	IS		120				96.7			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFOA	IS		116				108			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C8-PFOS	IS		116				118			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C5-PFNA	IS		107				105			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFDA	IS		114				99.4			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
d3-MeFOSAA	IS		80.0				90.5			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFUnA	IS		85.9				73.7			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
d5-EtFOSAA	IS		85.0				88.4			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFDaA	IS		78.4				80.1			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1
13C2-PFTeDA	IS		98.9				85.5			50-150		16-Jan-18 06:43	1	16-Jan-18 06:55	1

Sample ID: YS22-EB01-120417
Modified EPA Method 537

Client Data					Laboratory Data				
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701886-01	Column:	BEH C18		
Project:	NWS Yorktown/ 680536	Date Collected:	04-Dec-17 16:00	Date Received:	07-Dec-17 09:23				
Location:	Site 22								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHxA	ND	2.32	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHpA	ND	0.629	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHxS	ND	1.01	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFOA	ND	0.693	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFOS	ND	0.859	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFNA	ND	0.862	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFDA	ND	1.59	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
MeFOSAA	ND	1.76	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFUnA	ND	1.12	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
EtFOSAA	ND	1.46	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFDaA	ND	0.843	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFTDA	ND	0.526	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFTeDA	ND	0.803	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	110	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFHxA	IS	104	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C4-PFHpA	IS	118	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
18O2-PFHxS	IS	105	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFOA	IS	102	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C8-PFOS	IS	105	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C5-PFNA	IS	89.0	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFDA	IS	79.6	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
d3-MeFOSAA	IS	95.0	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFUnA	IS	87.5	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
d5-EtFOSAA	IS	103	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFDaA	IS	81.4	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
13C2-PFTeDA	IS	98.3	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: YS22-AQ-120517
Modified EPA Method 537

Client Data					Laboratory Data				
Name:	CH2M Hill	Matrix:	Aqueous		Lab Sample:	1701886-02	Column:	BEH C18	
Project:	NWS Yorktown/ 680536	Date Collected:	05-Dec-17 08:45		Date Received:	07-Dec-17 09:23			
Location:	Site 22								

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.05	1.90	5.30	8.47	J	B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHxA	3.55	2.31	5.30	8.47	J	B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHpA	ND	0.626	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHxS	15.5	1.00	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFOA	ND	0.690	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFOS	11.1	0.855	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFNA	ND	0.858	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFDA	ND	1.58	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
MeFOSAA	ND	1.75	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFUnA	ND	1.11	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
EtFOSAA	ND	1.45	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFDaA	ND	0.839	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFTDA	ND	0.523	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFTeDA	ND	0.800	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	121	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFHxA	IS	121	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C4-PFHpA	IS	119	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
18O2-PFHxS	IS	94.1	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFOA	IS	112	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C8-PFOS	IS	109	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C5-PFNA	IS	119	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFDA	IS	98.1	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
d3-MeFOSAA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFUnA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
d5-EtFOSAA	IS	122	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFDaA	IS	109	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
13C2-PFTeDA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	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.

Sample ID: YS22-GW18-1217
Modified EPA Method 537

Client Data				Laboratory Data			
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701886-03	Column:	BEH C18
Project:	NWS Yorktown/ 680536	Date Collected:	04-Dec-17 17:20	Date Received:	07-Dec-17 09:23		
Location:	Site 22						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFHxA	ND	2.28	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFHpA	ND	0.619	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFHxS	ND	0.992	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFOA	ND	0.682	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFOS	ND	0.846	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFNA	ND	0.849	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFDA	ND	1.56	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
MeFOSAA	ND	1.73	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFUnA	ND	1.10	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
EtFOSAA	ND	1.44	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFDaA	ND	0.830	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFTDA	ND	0.518	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFTeDA	ND	0.791	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	120	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C2-PFHxA	IS	110	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C4-PFHpA	IS	130	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
18O2-PFHxS	IS	119	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C2-PFOA	IS	99.3	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C8-PFOS	IS	98.3	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C5-PFNA	IS	92.9	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C2-PFDA	IS	106	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
d3-MeFOSAA	IS	96.1	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C2-PFUnA	IS	88.9	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
d5-EtFOSAA	IS	92.2	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C2-PFDaA	IS	90.2	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
13C2-PFTeDA	IS	100	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
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.



For Laboratory Use Only

Work Order #: 1701886 Temp: 0.0

Storage ID: WR-2 Storage Secured: Yes ☒ No ☐

Project ID: NWS Yorktown/080536 PO#: _____ Sampler: Allyson Schwartz
(name)

TAT Standard: ☐ 21 days
(check one): Rush (surcharge may apply)
☐ 14 days ☐ 7 days Specify: *As per contract*

Invoice to: Name		Company		Address		City		State		Ph#		Fax#			
Tommy Carey		CH2M								850-396-4928					
Relinquished by (printed name and signature)				Date		Time		Received by (printed name and signature)				Date		Time	
Allison Shumate				12-6-17		1200		B. Benedict				12/07/17		0945	
Relinquished by (printed name and signature)				Date		Time		Received by (printed name and signature)				Date		Time	

Add Analysis(es) Requested

ATTN: _____

Tracking No.:

Container(s)

Mod. EPA
Method 537EPA Method
837 (DW only)[illegible]

Special Instructions/Comments:

SEND
DOCUMENTATION
AND RESULTS TO:

Name: _____
 Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Fax: _____
 Email: _____

Bottle Preservation Type: T = Thiosulfate,
TZ = Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other.

Sample Log-in Checklist

 Vista Work Order #: 1701886 TAT 28

Samples Arrival:	Date/Time 12/07/17 0923	Initials: BMB	Location: WR-2 Shelf/Rack: N4
Logged In:	Date/Time 12/07/17 1600	Initials: SR	Location: WR-2 Shelf/Rack: E3
Delivered By:	☒ FedEx	☐ UPS	☐ On Trac
	☐ GSO	☐ DHL	☐ Hand Delivered
Preservation:	☒ Ice	☐ Blue Ice	☐ Dry Ice
Temp °C: 0.0 (uncorrected)	Time: 0954	Thermometer ID: DT3-IR1	
Temp °C: 0.0 (corrected)	Probe used: Yes ☒ No ☐		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # 7887 9076 9864	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?	✓		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	Na ₂ S ₂ O ₃	Trizma	☒ None
	☒ Yes	No	NA
Shipping Container	☒ Vista	Client	Retain
	Return	Dispose	

 Comments: COC ID:
YS22-AQ-120517
Sample Container ID:
YS22-AQ-120617

Chain of Custody Anomaly/Sample Acceptance Form



CH2M Hill
 Tammy Carey
 tammy.carey@ch2m.com
 (850) 396-4928

Workorder Number: 1701886
 Date Received: 07-Dec-17 09:23
 Documented by/date: S.Roughton 12/07/17

Please review the following information and complete the Client Authorization section. To comply with NELAC regulations, we must receive authorization before proceeding with sample analysis.

Thank you,

Martha Maier
 mmaier@vista-analytical.com
 916-673-1520

☒ Sample IDs on Chain of Custody do not match Sample Container Labels

Chain of Custody ID	Container Label ID
YS22-AQ-120517	YS22-AQ-120617

Client Authorization

Proceed with Analysis: ☒ YES ☐ NO

Signature and Date Tammy Carey 1/16/18

Client Comments/Instructions Client notified about sample ID discrepancy on 12/11/17;
no response. sample ID on COC used.

EXTRACTION INFORMATION

Process Sheet
Workorder: **1701886**

Prep Expiration: 2017-Dec-18
Client: CH2M Hill

Workorder Due: **07-Jan-18 00:00**

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

TAT: 31

HN 12/18/17

Prep Batch: B7L0210 B7L0120

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

Prep Data Entered: GPB 12/19/17
Date and Initials

Initial Sequence: S7L0100

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701886-01	A	☒	☒	YS22-EB01-120417		WR-2 E-3	HDPE Bottle, 125 mL
1701886-02		☒	☐	YS22-AQ-120517	YS22-AQ-120617	WR-2 E-3	HDPE Bottle, 125 mL
1701886-03		☒	☒	YS22-GW18-1217		WR-2 E-3	HDPE Bottle, 125 mL

Pre-Prep Check Out: HB 12/18/17
Pre-Prep Check In: NA

Prep Check Out: NA
Prep Check In: NA

Prep Reconciled Initials/Date: HB 12/18/17
Spike Reconciled Initials/Date: GPB 12/18/17
VialBoxID: Blame Hugo

PREPARATION BENCH SHEET

Matrix: Aqueous

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

Method: 537M PFAS

Method: 537M PFAS DOD (LOQ as mRL)

B7L0120

Chemist: htc

Prep Date/Time: 18-Dec-17 08:09

Prepared using: LCMS - SPE Extraction-LCMS

1400
htc

Date/Initials: <u>HB 12/18/17</u> BalanceID: <u>HLM-8</u>											
Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☐	B7L0120-BLK1	5	2	0	3	NA	NA	(0.250)	htc	Gee 12/18/17	Gee 12/18/17
☐	B7L0120-BS1	5	2	0	3	↓	↓	(0.250)	✓		
☐	B7L0120-BSD1	5	2	0	3	↓	↓	(0.250)	✓		
☐	1701863-01	5	2	0	3	145.61	26.88	0.11873			
☐	1701886-01	4	2	0	3	144.29	26.81	0.11748	✓		
☐	1701886-02	6	2	0	3	144.85	26.84	0.11801	✓		
☒	1701886-03	6	2	0	3	146.03	26.76	0.11927	✓		
☒	1701909-01 (B)	6	2	0	4	289.45	27.93	0.26152			
☒	1701909-02 ↓	6	2	0	4	284.91	26.32	0.25859			
☐	1701909-03	6	2	0	5	295.90	26.70	0.26920			
☒	1701909-04	6	2	0	4	287.71	26.58	0.26113			
☐	1701909-05	6	2	0	4	280.03	26.49	0.25354			
☐	1701909-06	6	2	0	5	295.82	26.32	0.26956			
☒	1701909-07	6	2	0	4	294.13	26.25	0.26788			
☒	1701909-08	5	2	0	4	289.00	26.11	0.26289			
☒	1701909-09	5	2	0	4	284.10	26.80	0.25730	↓	↓	↓

IS: <u>17L0402, 10µL (V1)</u>	SPE Chem: <u>STRATA X-AW 33um 200µm 6mL</u>	Notes: (B) samples still deeply colored after centrifuging. HB 12/18/17 microcentrifuged to see if any more particulate would come out, but none did.
IS SUP: <u>NA</u>	Ele SOLV: <u>0.5% NH4OH in MeOH / MeOH</u>	
NS: <u>17J1820, 10µL (V1)</u>	Final Volume(s) <u>1mL</u>	
RS: <u>17K2502, 10µL (V2)</u>		

Comments: Assume 1 g = 1 mL

Cen = Centrifuge

PREPARATION BENCH SHEET

Matrix: Aqueous

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

Method: 537M PFAS

Method: 537M PFAS DOD (LOQ as mRL)

B7L0120

Chemist: Hz

Prep Date/Time: 18-Dec-17 08:09

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initials: HB 12/18/17 NA 12/18/17 BalanceID: HRM-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
☐	1701955-01	6	2	0	3	297.73	27.56	0.27017	<u>Hz</u> <u>GAS 12/18/17</u>	<u>GAS 12/18/17</u>	<u>GAS 12/18/17</u>

IS:

IS SUP:

NS:

RS:

SPE Chem:

Ele SOLV:

Final Volume(s)

Notes:

Comments: Assume 1 g = 1 mL

Cen = Centrifuged

Batch: B7L0120

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701863-01	0.11873 ✓	NA	NA	1000	18-Dec-17 14:00	HAC			Aqueous	537M PFAS
1701886-01	0.11748 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701886-02	0.11801 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701886-03	0.11927 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M PFAS DOD (LOQ as
1701909-01	0.26152 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-02	0.25859 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-03	0.2692 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-04	0.26113 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-05	0.25354 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-06	0.26956 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-07	0.26788 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-08	0.26289 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701909-09	0.2573 ✓			1000	18-Dec-17 14:00	HAC			Aqueous	537M Linear All/Branched/
1701955-01	0.27017 ✓			1000	18-Dec-17 14:00	HAC			Drinking Water	537M PFAS
B7L0120-BLK1	0.25			1000	18-Dec-17 14:00	HAC				QC
B7L0120-BS1	0.25			1000	18-Dec-17 14:00	HAC	17J1820 /	10 /		QC
B7L0120-BSD1	0.25			1000	18-Dec-17 14:00	HAC	17J1820 /	10 /		QC

GPB 12/19/17

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\Q4.PRO\results\180115M2\180115M2-38.qld

Last Altered: Tuesday, January 16, 2018 11:50:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:50:35 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-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	3 PFBS	299.0 > 79.7		8.83e2	0.250		2.87				
2	4 PFHxA	313.2 > 268.9		2.19e3	0.250		3.36				
3	5 PFHpA	363.0 > 318.9		5.59e3	0.250		4.00				
4	6 L-PFHxS	398.9 > 79.6		6.97e2	0.250		4.14				
5	9 L-PFOA	413 > 368.7		7.89e3	0.250		4.50				
6	12 PFNA	463.0 > 418.8		5.61e3	0.250		4.94				
7	14 L-PFOS	499 > 79.9		1.95e3	0.250		5.02				
8	16 PFDA	513 > 468.8		5.64e3	0.250		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.00e3	0.250		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.51e3	0.250		5.60				
11	20 PFUdA	563.0 > 518.9		5.27e3	0.250		5.62				
12	22 PFDoA	612.9 > 569.0		4.71e3	0.250		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-38.qld

Last Altered: Tuesday, January 16, 2018 11:50:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:50:47 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-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	24 PFTTrDA	662.9 > 618.9		4.71e3	0.250		6.15				
2	25 PFTeDA	712.9 > 668.8		2.69e3	0.250		6.35				
3	33 13C3-PFBS	302. > 98.8	8.83e2	7.28e3	0.250	0.095	2.87	2.73	1.52	63.8594	127.7
4	34 13C2-PFHxA	315 > 269.8	2.19e3	7.28e3	0.250	0.636	3.36	3.23	3.76	23.6193	118.1
5	35 13C4-PFHpA	367.2 > 321.8	5.59e3	7.28e3	0.250	0.621	4.00	3.85	9.61	61.8948	123.8
6	36 18O2-PFHxS	403.0 > 102.6	6.97e2	2.26e3	0.250	0.336	4.14	3.99	3.85	45.8276	91.7
7	37 13C2-6:2 FTS	429.1 > 408.9	1.32e3	6.70e3	0.250	0.192	4.46	4.31	2.47	51.3304	102.7
8	38 13C2-PFOA	414.9 > 369.7	7.89e3	6.70e3	0.250	1.001	4.50	4.36	14.7	58.8254	117.7
9	39 13C5-PFNA	468.2 > 422.9	5.61e3	6.41e3	0.250	0.811	4.94	4.79	10.9	53.9740	107.9
10	40 13C8-PFOSA	506.1 > 77.7	8.70e2	7.32e3	0.250	0.196	5.00	4.85	1.49	30.2433	60.5
11	41 13C8-PFOS	507.0 > 79.9	1.95e3	1.74e3	0.250	0.862	5.02	4.87	14.1	65.3020	130.6
12	42 13C2-PFDA	515.1 > 469.9	5.64e3	5.92e3	0.250	0.996	5.31	5.16	11.9	47.8251	95.7
13	43 13C2-8:2 FTS	529.1 > 508.7	7.69e2	7.28e3	0.250	0.103	5.28	5.13	1.32	51.2908	102.6
14	44 d3-N-MeFOSAA	573.3 > 419	2.00e3	7.32e3	0.250	0.340	5.45	5.31	3.42	40.2593	80.5
15	45 d5-N-EtFOSAA	589.3 > 419	2.51e3	7.32e3	0.250	0.377	5.60	5.46	4.29	45.5239	91.0
16	46 13C2-PFUdA	565 > 519.8	5.27e3	7.32e3	0.250	0.944	5.62	5.48	8.99	38.0985	76.2
17	47 13C2-PFDoA	615.0 > 569.7	4.71e3	7.32e3	0.250	0.726	5.91	5.76	8.04	44.2623	88.5
18	49 13C2-PFTeDA	714.8 > 669.6	2.69e3	7.32e3	0.250	0.371	6.35	6.21	4.59	49.4132	98.8
19	55 13C5-PFHxA	318 > 272.9	7.28e3	7.28e3	0.250	1.000	3.36	3.23	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.26e3	2.26e3	0.250	1.000	4.14	3.99	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	6.70e3	6.70e3	0.250	1.000	4.50	4.36	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	6.41e3	6.41e3	0.250	1.000	4.94	4.79	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	1.74e3	1.74e3	0.250	1.000	5.02	4.87	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.92e3	5.92e3	0.250	1.000	5.31	5.16	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.32e3	7.32e3	0.250	1.000	5.62	5.48	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	6.97e2	0.250		4.14		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	7.89e3	0.250		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	1.95e3	0.250		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.00e3	0.250		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.51e3	0.250		5.61		0.000		

Dataset: U:\Q4.PRO\results\180115M2\180115M2-38.qld

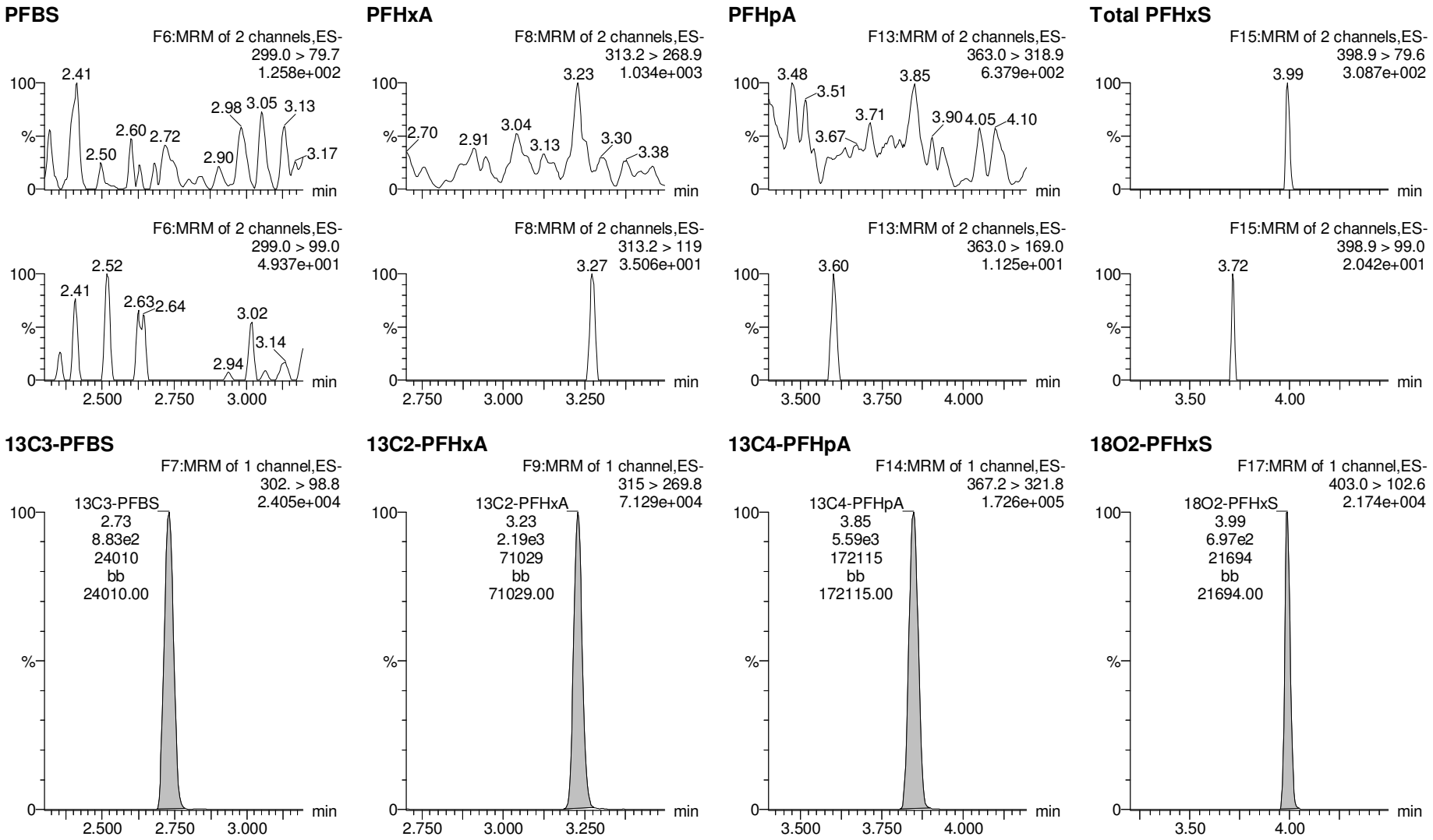
Last Altered: Tuesday, January 16, 2018 11:50:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:50:47 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-BLK1 Method Blank 0.25, Description: Method Blank

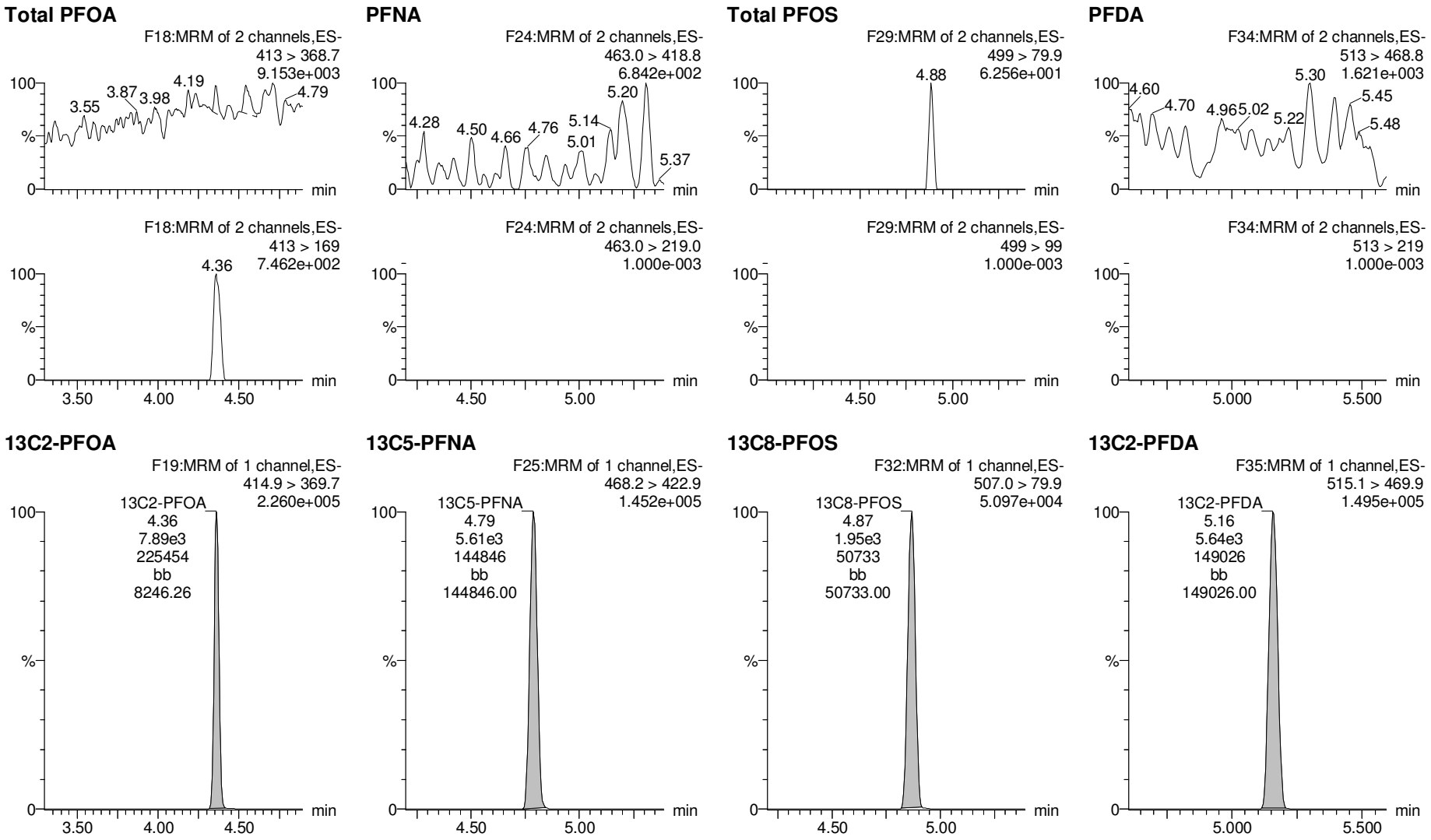


Dataset: U:\Q4.PRO\results\180115M2\180115M2-38.qld

Last Altered: Tuesday, January 16, 2018 11:50:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:50:47 Pacific Standard Time

Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-BLK1 Method Blank 0.25, Description: Method Blank

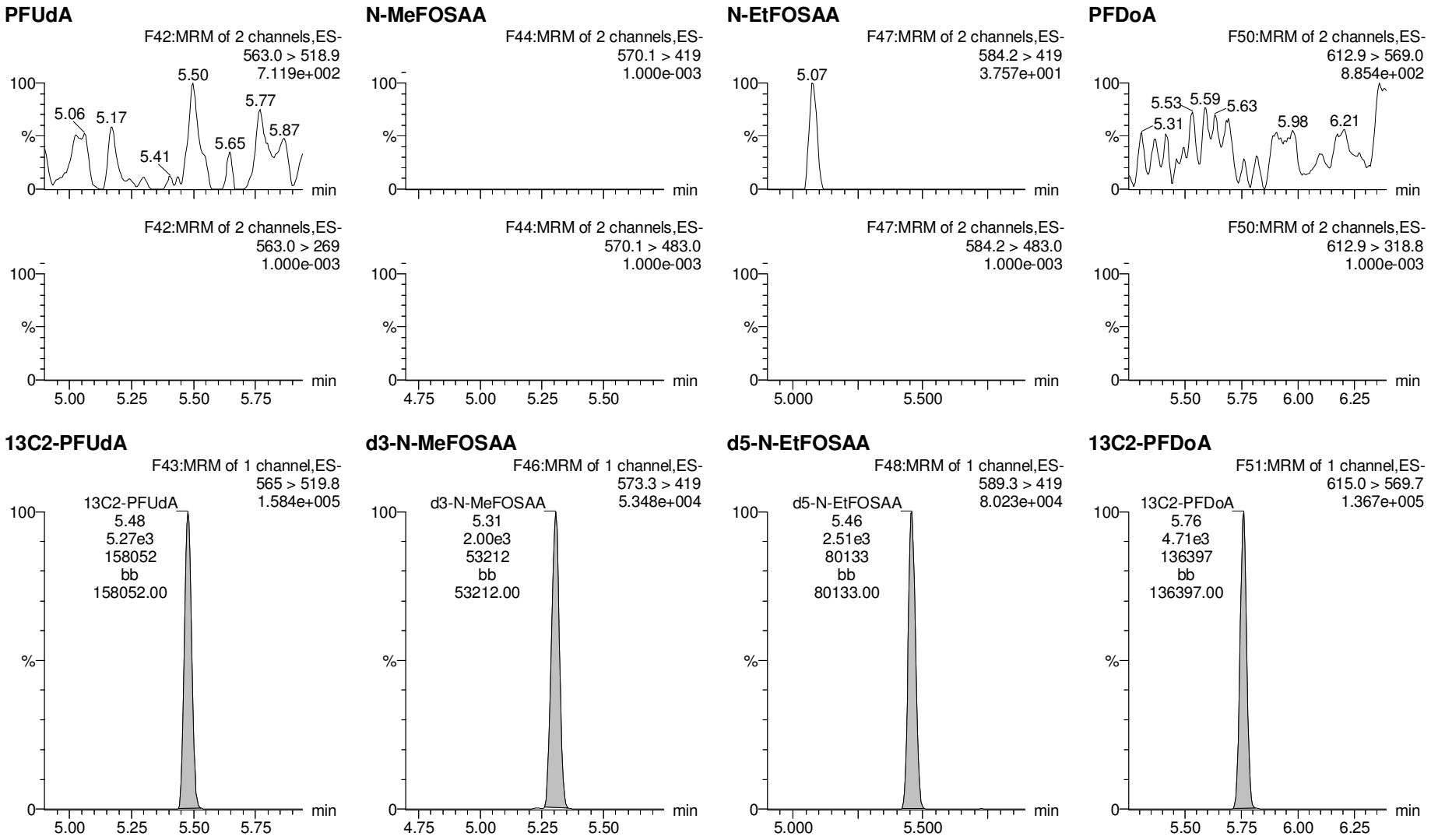


Dataset: U:\Q4.PRO\results\180115M2\180115M2-38.qld

Last Altered: Tuesday, January 16, 2018 11:50:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:50:47 Pacific Standard Time

Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-BLK1 Method Blank 0.25, Description: Method Blank

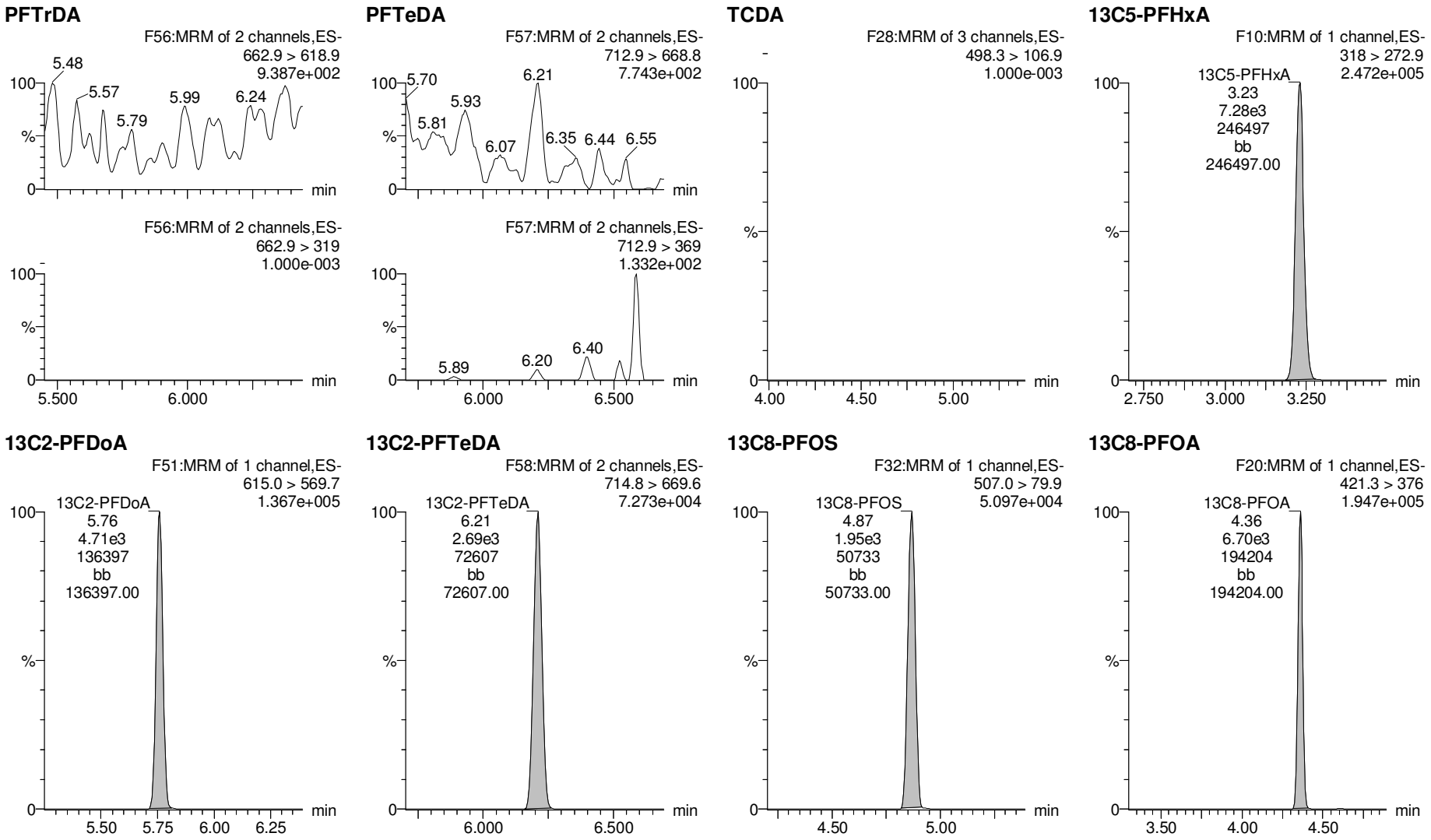


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Last Altered: Tuesday, January 16, 2018 11:50:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:50:47 Pacific Standard Time

Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-BLK1 Method Blank 0.25, Description: Method Blank

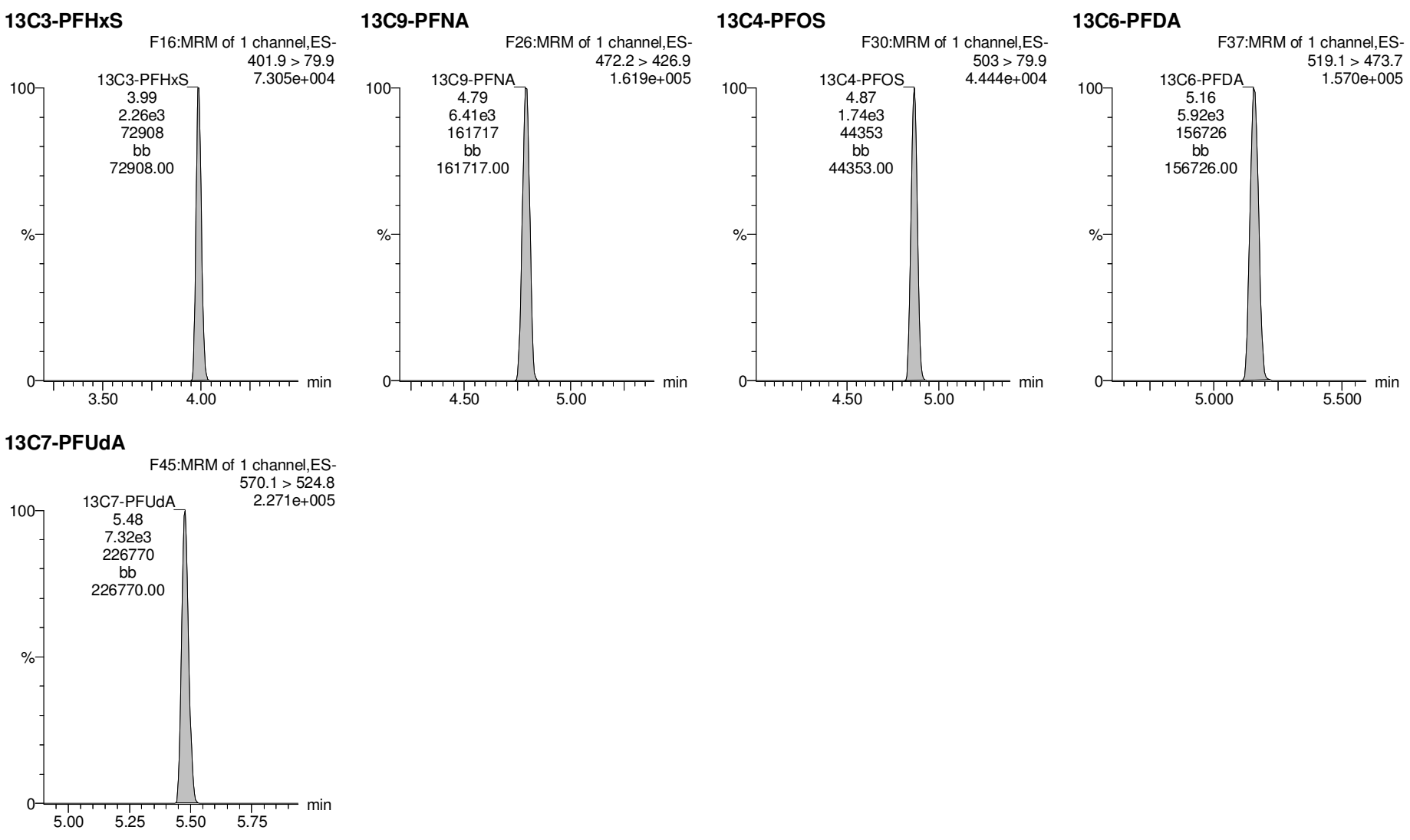


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Last Altered: Tuesday, January 16, 2018 11:50:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:50:47 Pacific Standard Time

Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-BLK1 Method Blank 0.25, Description: Method Blank



Dataset: U:\Q4.PRO\results\180115M2\180115M2-35.qld

Last Altered: Tuesday, January 16, 2018 11:38:06 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:38:38 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_35, Date: 16-Jan-2018, Time: 06:43:51, ID: B7L0120-BS1 OPR 0.25, Description: OPR

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	1.51e3	1.02e3	0.250		2.87	2.73	18.5	38.6792	96.7
2	4	PFHxA	313.2 > 268.9	8.34e3	2.68e3	0.250		3.36	3.23	15.5	35.4005	88.5
3	5	PFHpA	363.0 > 318.9	6.60e3	6.63e3	0.250		4.00	3.85	12.4	33.4119	83.5
4	6	L-PFHxS	398.9 > 79.6	1.22e3	8.38e2	0.250		4.14	3.99	18.2	36.2960	90.7
5	9	L-PFOA	413 > 368.7	8.32e3	9.12e3	0.250		4.50	4.36	11.4	39.4435	98.6
6	12	PFNA	463.0 > 418.8	6.20e3	7.91e3	0.250		4.94	4.79	9.79	28.8335	72.1
7	14	L-PFOS	499 > 79.9	2.08e3	2.47e3	0.250		5.02	4.87	10.5	37.9159	94.8
8	16	PFDA	513 > 468.8	6.69e3	6.75e3	0.250		5.31	5.16	12.4	34.4413	86.1
9	18	N-MeFOSAA	570.1 > 419	3.44e3	2.43e3	0.250		5.45	5.31	17.7	42.8928	107.2
10	19	N-EtFOSAA	584.2 > 419	2.54e3	2.87e3	0.250		5.60	5.46	11.1	34.3327	85.8
11	20	PFUdA	563.0 > 518.9	6.40e3	7.25e3	0.250		5.62	5.48	11.0	34.4937	86.2
12	22	PFDoA	612.9 > 569.0	7.08e3	5.09e3	0.250		5.91	5.76	17.4	47.7669	119.4

Dataset: U:\Q4.PRO\results\180115M2\180115M2-35.qld

Last Altered: Tuesday, January 16, 2018 11:38:06 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:38:51 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_35, Date: 16-Jan-2018, Time: 06:43:51, ID: B7L0120-BS1 OPR 0.25, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTeDA	662.9 > 618.9	9.64e3	5.09e3	0.250		6.15	6.00	23.6	44.1957	110.5
2	25 PFTeDA	712.9 > 668.8	6.45e3	3.29e3	0.250		6.35	6.21	24.5	29.4994	73.7
3	33 13C3-PFBS	302. > 98.8	1.02e3	9.24e3	0.250	0.095	2.87	2.73	1.38	57.9868	116.0
4	34 13C2-PFHxA	315 > 269.8	2.68e3	9.24e3	0.250	0.636	3.36	3.23	3.63	22.8069	114.0
5	35 13C4-PFHpA	367.2 > 321.8	6.63e3	9.24e3	0.250	0.621	4.00	3.85	8.97	57.8208	115.6
6	36 18O2-PFHxS	403.0 > 102.6	8.38e2	2.08e3	0.250	0.336	4.14	3.99	5.03	59.9386	119.9
7	37 13C2-6:2 FTS	429.1 > 408.9	1.61e3	7.88e3	0.250	0.192	4.46	4.31	2.56	53.1460	106.3
8	38 13C2-PFOA	414.9 > 369.7	9.12e3	7.88e3	0.250	1.001	4.50	4.36	14.5	57.8028	115.6
9	39 13C5-PFNA	468.2 > 422.9	7.91e3	9.11e3	0.250	0.811	4.94	4.79	10.9	53.5831	107.2
10	40 13C8-PFOSA	506.1 > 77.7	1.19e3	8.95e3	0.250	0.196	5.00	4.86	1.67	33.9601	67.9
11	41 13C8-PFOS	507.0 > 79.9	2.47e3	2.47e3	0.250	0.862	5.02	4.87	12.5	57.8942	115.8
12	42 13C2-PFDA	515.1 > 469.9	6.75e3	5.96e3	0.250	0.996	5.31	5.16	14.2	56.8790	113.8
13	43 13C2-8:2 FTS	529.1 > 508.7	1.01e3	9.24e3	0.250	0.103	5.28	5.13	1.37	53.1715	106.3
14	44 d3-N-MeFOSAA	573.3 > 419	2.43e3	8.95e3	0.250	0.340	5.45	5.31	3.40	39.9825	80.0
15	45 d5-N-EtFOSAA	589.3 > 419	2.87e3	8.95e3	0.250	0.377	5.60	5.46	4.01	42.5158	85.0
16	46 13C2-PFUdA	565 > 519.8	7.25e3	8.95e3	0.250	0.944	5.62	5.48	10.1	42.9663	85.9
17	47 13C2-PFDoA	615.0 > 569.7	5.09e3	8.95e3	0.250	0.726	5.91	5.76	7.12	39.1994	78.4
18	49 13C2-PFTeDA	714.8 > 669.6	3.29e3	8.95e3	0.250	0.371	6.35	6.21	4.59	49.4484	98.9
19	55 13C5-PFHxA	318 > 272.9	9.24e3	9.24e3	0.250	1.000	3.36	3.23	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.08e3	2.08e3	0.250	1.000	4.14	3.99	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	7.88e3	7.88e3	0.250	1.000	4.50	4.36	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.11e3	9.11e3	0.250	1.000	4.94	4.79	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	2.47e3	2.47e3	0.250	1.000	5.02	4.87	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.96e3	5.96e3	0.250	1.000	5.31	5.16	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.95e3	8.95e3	0.250	1.000	5.62	5.48	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.22e3	8.38e2	0.250		4.14		18.2	36.2960	
27	63 Total PFOA	413 > 368.7	8.32e3	9.12e3	0.250		4.51		11.4	39.4435	
28	64 Total PFOS	499 > 79.9	2.08e3	2.47e3	0.250		5.02		10.5	37.9159	
29	65 Total N-MeFOSAA	570.1 > 419	3.44e3	2.43e3	0.250		5.45		17.7	42.8928	
30	66 Total N-EtFOSAA	584.2 > 419	2.54e3	2.87e3	0.250		5.61		11.1	34.3327	

Dataset: U:\Q4.PRO\results\180115M2\180115M2-35.qld

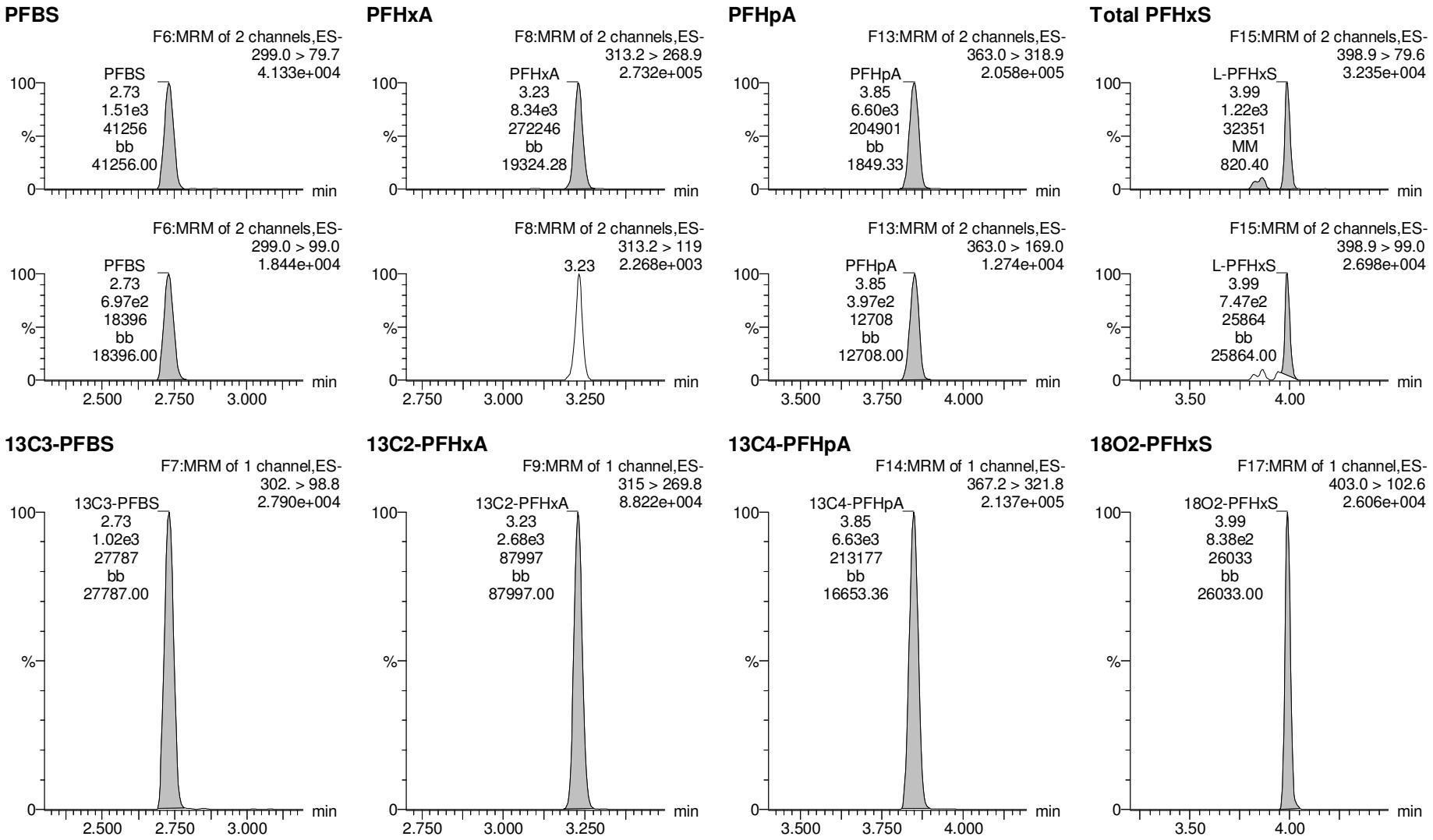
Last Altered: Tuesday, January 16, 2018 11:38:06 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:38:51 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_35, Date: 16-Jan-2018, Time: 06:43:51, ID: B7L0120-BS1 OPR 0.25, Description: OPR



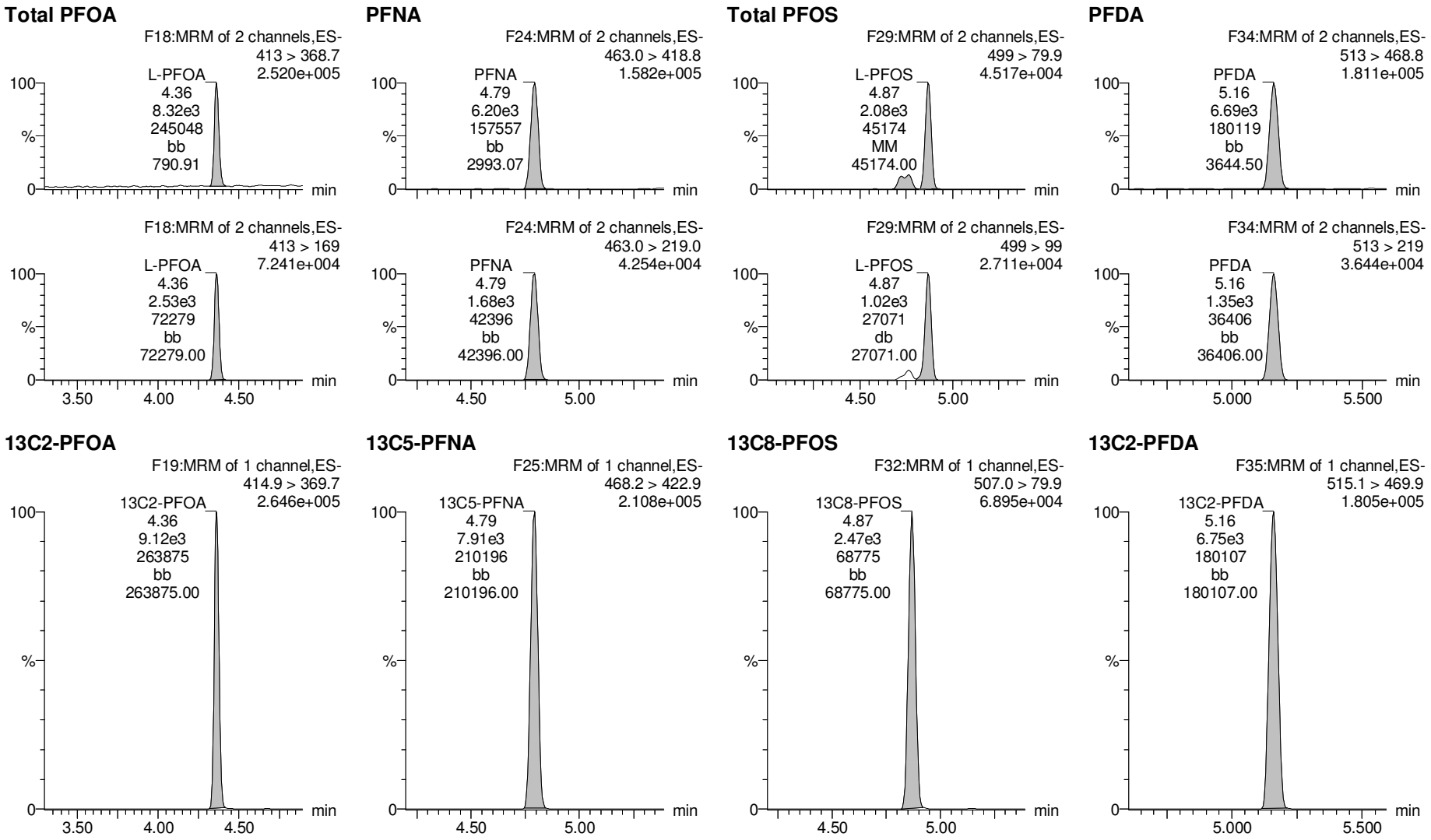
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Rev'd: MM 1/16/18

Last Altered: Tuesday, January 16, 2018 11:38:06 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:38:51 Pacific Standard Time

Name: 180115M2_35, Date: 16-Jan-2018, Time: 06:43:51, ID: B7L0120-BS1 OPR 0.25, Description: OPR

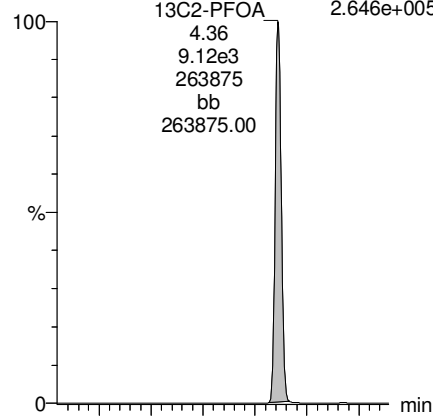


13C2-PFOA

F19:MRM of 1 channel,ES-414.9 > 369.7
2.646e+005

13C2-PFOA

4.36
9.12e3
263875
bb
263875.00



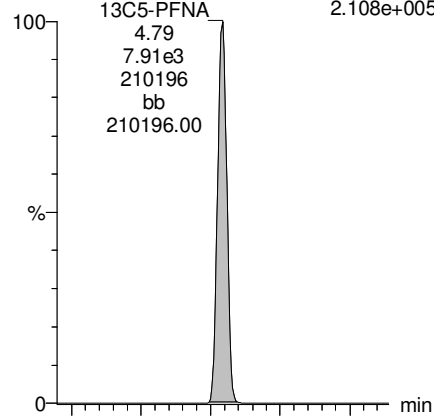
min

13C5-PFNA

F25:MRM of 1 channel,ES-468.2 > 422.9
2.108e+005

13C5-PFNA

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7.91e3
210196
bb
210196.00



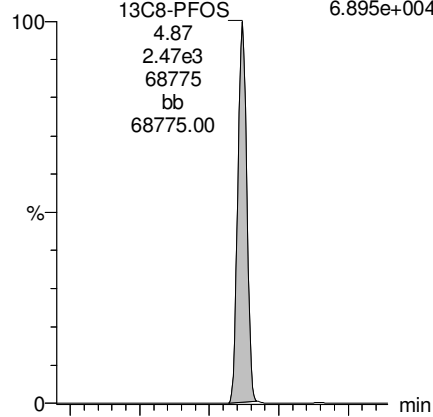
min

13C8-PFOS

F32:MRM of 1 channel,ES-507.0 > 79.9
6.895e+004

13C8-PFOS

4.87
2.47e3
68775
bb
68775.00



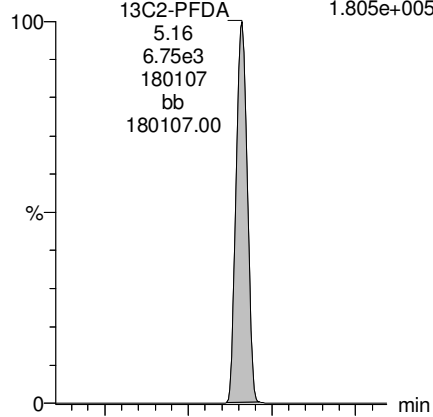
min

13C2-PFDA

F35:MRM of 1 channel,ES-515.1 > 469.9
1.805e+005

13C2-PFDA

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6.75e3
180107
bb
180107.00



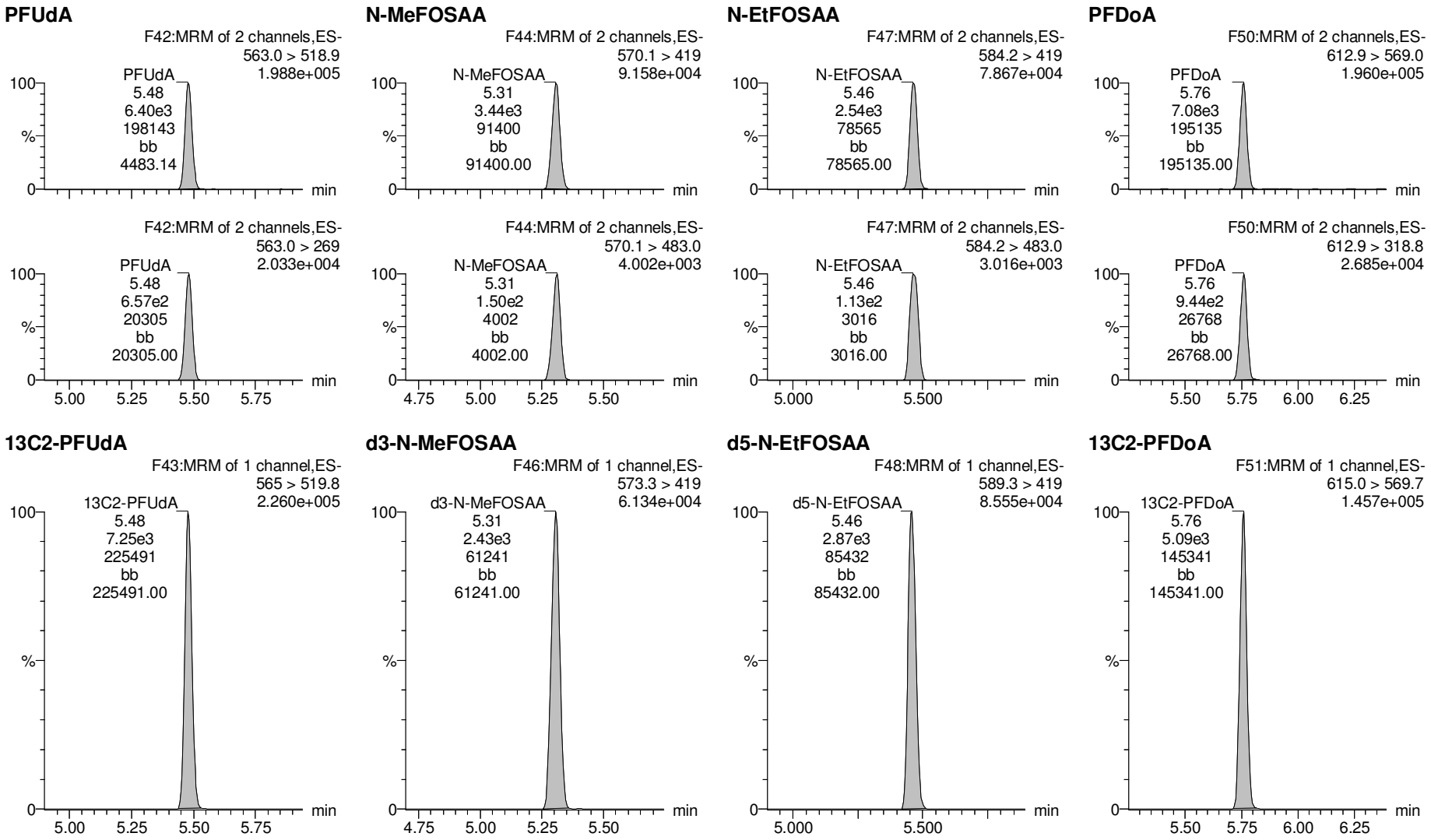
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Printed: Tuesday, January 16, 2018 11:38:51 Pacific Standard Time

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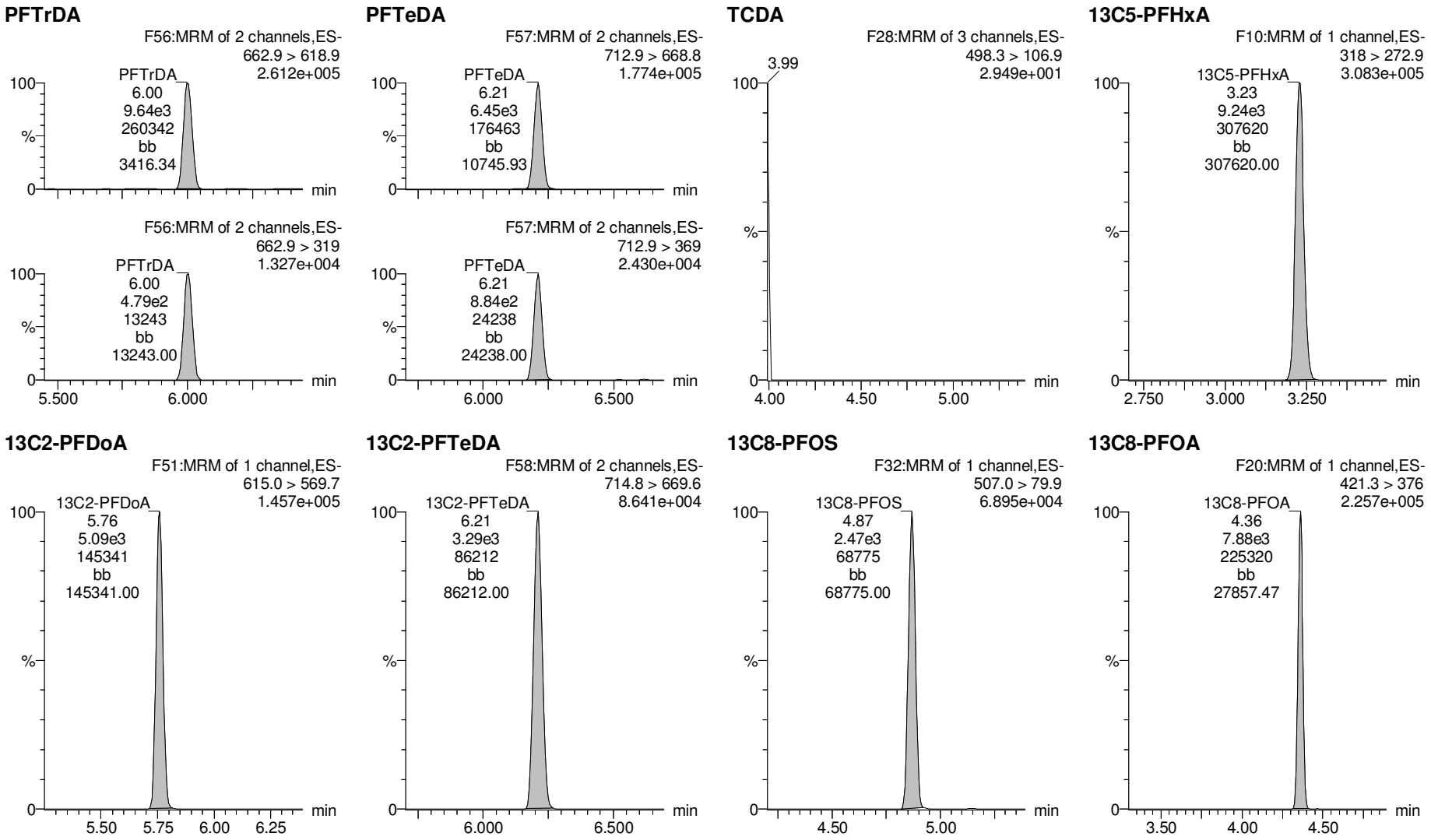


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Printed: Tuesday, January 16, 2018 11:38:51 Pacific Standard Time

Name: 180115M2_35, Date: 16-Jan-2018, Time: 06:43:51, ID: B7L0120-BS1 OPR 0.25, Description: OPR

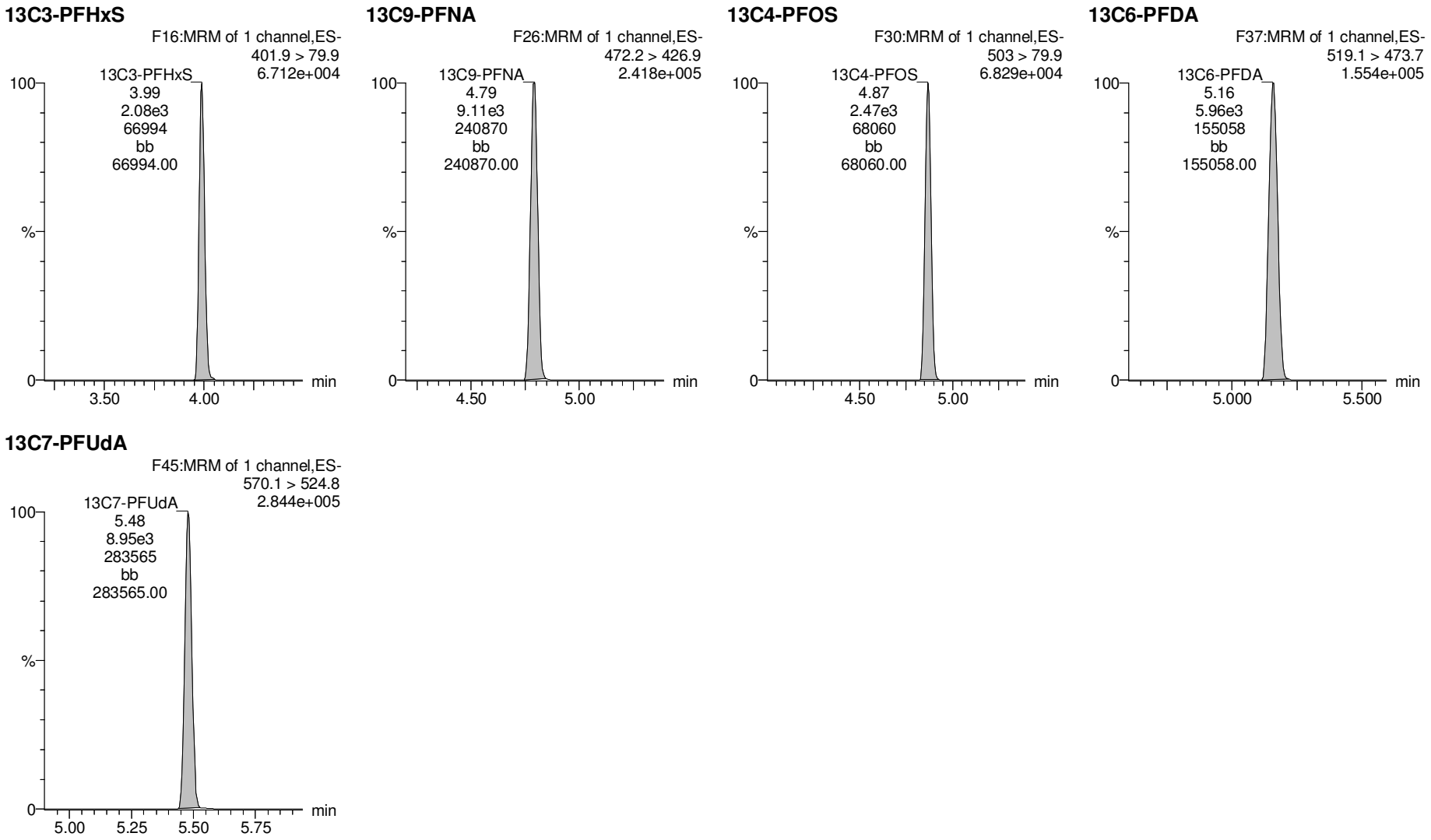


Dataset: U:\Q4.PRO\results\180115M2\180115M2-35.qld

Last Altered: Tuesday, January 16, 2018 11:38:06 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:38:51 Pacific Standard Time

Name: 180115M2_35, Date: 16-Jan-2018, Time: 06:43:51, ID: B7L0120-BS1 OPR 0.25, Description: OPR



Dataset: U:\Q4.PRO\results\180115M2\180115M2-36.qld

Last Altered: Tuesday, January 16, 2018 11:43:13 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:43:44 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7	1.70e3	1.04e3	0.250		2.87	2.73	20.4	42.6187	106.5
2	4	PFHxA	313.2 > 268.9	9.05e3	2.89e3	0.250		3.36	3.23	15.7	35.6932	89.2
3	5	PFHpA	363.0 > 318.9	7.13e3	6.45e3	0.250		4.00	3.84	13.8	37.0692	92.7
4	6	L-PFHxS	398.9 > 79.6	1.35e3	7.62e2	0.250		4.14	3.99	22.1	44.6044	111.5
5	9	L-PFOA	413 > 368.7	7.42e3	8.57e3	0.250		4.50	4.36	10.8	37.3820	93.5
6	12	PFNA	463.0 > 418.8	7.98e3	9.31e3	0.250		4.94	4.79	10.7	31.5167	78.8
7	14	L-PFOS	499 > 79.9	2.06e3	2.69e3	0.250		5.02	4.87	9.56	34.3976	86.0
8	16	PFDA	513 > 468.8	6.23e3	6.08e3	0.250		5.31	5.16	12.8	35.5989	89.0
9	18	N-MeFOSAA	570.1 > 419	3.51e3	3.01e3	0.250		5.45	5.31	14.6	35.1277	87.8
10	19	N-EtFOSAA	584.2 > 419	2.95e3	3.26e3	0.250		5.60	5.46	11.3	35.0390	87.6
11	20	PFUdA	563.0 > 518.9	6.69e3	6.80e3	0.250		5.62	5.48	12.3	38.6171	96.5
12	22	PFDoA	612.9 > 569.0	8.97e3	5.69e3	0.250		5.91	5.76	19.7	54.0764	135.2

Dataset: U:\Q4.PRO\results\180115M2\180115M2-36.qld

Last Altered: Tuesday, January 16, 2018 11:43:13 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:43:57 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTeDA	662.9 > 618.9	8.70e3	5.69e3	0.250		6.15	6.00	19.1	35.6874	89.2
2	25 PFTeDA	712.9 > 668.8	6.06e3	3.11e3	0.250		6.35	6.21	24.4	29.3440	73.4
3	33 13C3-PFBS	302. > 98.8	1.04e3	9.21e3	0.250	0.095	2.87	2.73	1.41	59.2375	118.5
4	34 13C2-PFHxA	315 > 269.8	2.89e3	9.21e3	0.250	0.636	3.36	3.23	3.92	24.6277	123.1
5	35 13C4-PFHpA	367.2 > 321.8	6.45e3	9.21e3	0.250	0.621	4.00	3.84	8.75	56.3855	112.8
6	36 18O2-PFHxS	403.0 > 102.6	7.62e2	2.35e3	0.250	0.336	4.14	3.99	4.06	48.3662	96.7
7	37 13C2-6:2 FTS	429.1 > 408.9	1.89e3	7.90e3	0.250	0.192	4.46	4.31	2.99	62.2394	124.5
8	38 13C2-PFOA	414.9 > 369.7	8.57e3	7.90e3	0.250	1.001	4.50	4.36	13.6	54.1702	108.3
9	39 13C5-PFNA	468.2 > 422.9	9.31e3	1.10e4	0.250	0.811	4.94	4.79	10.6	52.2375	104.5
10	40 13C8-PFOSA	506.1 > 77.7	1.20e3	9.78e3	0.250	0.196	5.00	4.85	1.53	31.1359	62.3
11	41 13C8-PFOS	507.0 > 79.9	2.69e3	2.66e3	0.250	0.862	5.02	4.87	12.7	58.7991	117.6
12	42 13C2-PFDA	515.1 > 469.9	6.08e3	6.14e3	0.250	0.996	5.31	5.16	12.4	49.6976	99.4
13	43 13C2-8:2 FTS	529.1 > 508.7	1.07e3	9.21e3	0.250	0.103	5.28	5.13	1.45	56.4214	112.8
14	44 d3-N-MeFOSAA	573.3 > 419	3.01e3	9.78e3	0.250	0.340	5.45	5.31	3.85	45.2580	90.5
15	45 d5-N-EtFOSAA	589.3 > 419	3.26e3	9.78e3	0.250	0.377	5.60	5.46	4.16	44.1797	88.4
16	46 13C2-PFUDa	565 > 519.8	6.80e3	9.78e3	0.250	0.944	5.62	5.48	8.69	36.8437	73.7
17	47 13C2-PFDoA	615.0 > 569.7	5.69e3	9.78e3	0.250	0.726	5.91	5.76	7.27	40.0705	80.1
18	49 13C2-PFTeDA	714.8 > 669.6	3.11e3	9.78e3	0.250	0.371	6.35	6.21	3.97	42.7507	85.5
19	55 13C5-PFHxA	318 > 272.9	9.21e3	9.21e3	0.250	1.000	3.36	3.23	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.35e3	2.35e3	0.250	1.000	4.14	3.99	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	7.90e3	7.90e3	0.250	1.000	4.50	4.36	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	1.10e4	1.10e4	0.250	1.000	4.94	4.79	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	2.66e3	2.66e3	0.250	1.000	5.02	4.87	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.14e3	6.14e3	0.250	1.000	5.31	5.16	12.5	50.0000	100.0
25	61 13C7-PFUDa	570.1 > 524.8	9.78e3	9.78e3	0.250	1.000	5.62	5.48	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.35e3	7.62e2	0.250		4.14		22.1	44.6044	
27	63 Total PFOA	413 > 368.7	7.42e3	8.57e3	0.250		4.51		10.8	37.3820	
28	64 Total PFOS	499 > 79.9	2.06e3	2.69e3	0.250		5.02		9.56	34.3976	
29	65 Total N-MeFOSAA	570.1 > 419	3.51e3	3.01e3	0.250		5.45		14.6	35.1277	
30	66 Total N-EtFOSAA	584.2 > 419	2.95e3	3.26e3	0.250		5.61		11.3	35.0390	

Dataset: U:\Q4.PRO\results\180115M2\180115M2-36.qld

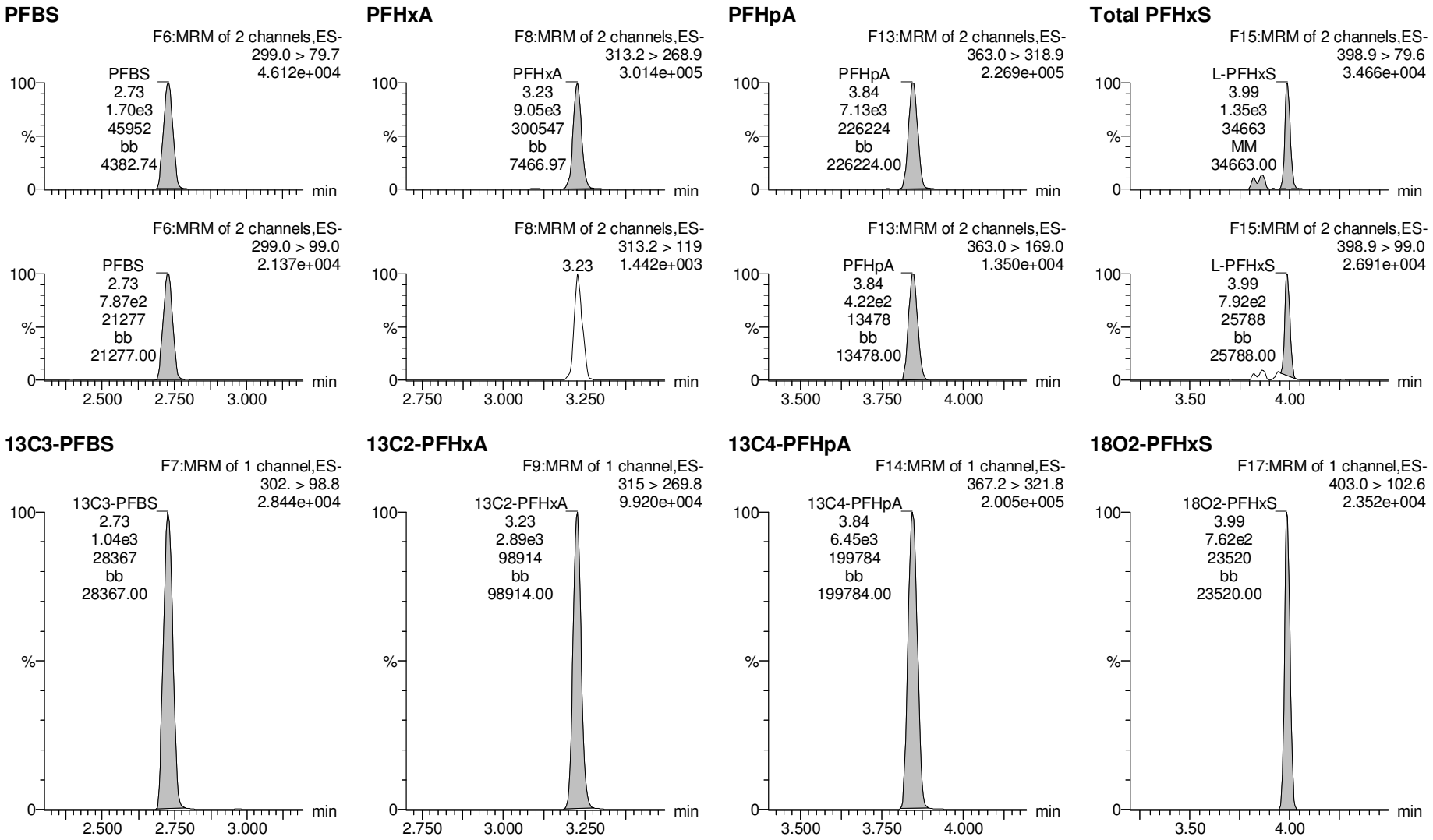
Last Altered: Tuesday, January 16, 2018 11:43:13 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:43:57 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD

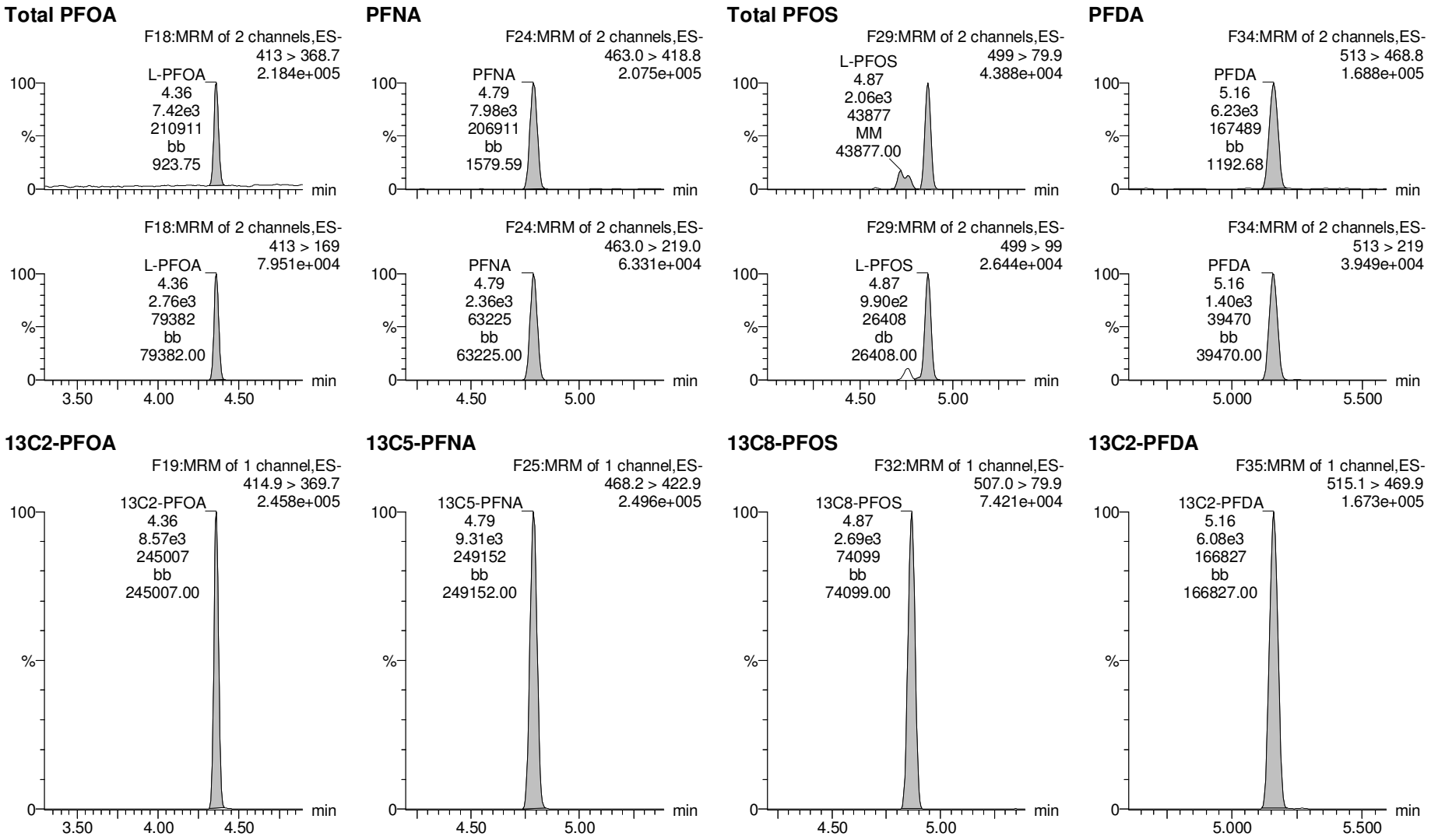


Dataset: U:\Q4.PRO\results\180115M2\180115M2-36.qld

Last Altered: Tuesday, January 16, 2018 11:43:13 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:43:57 Pacific Standard Time

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD

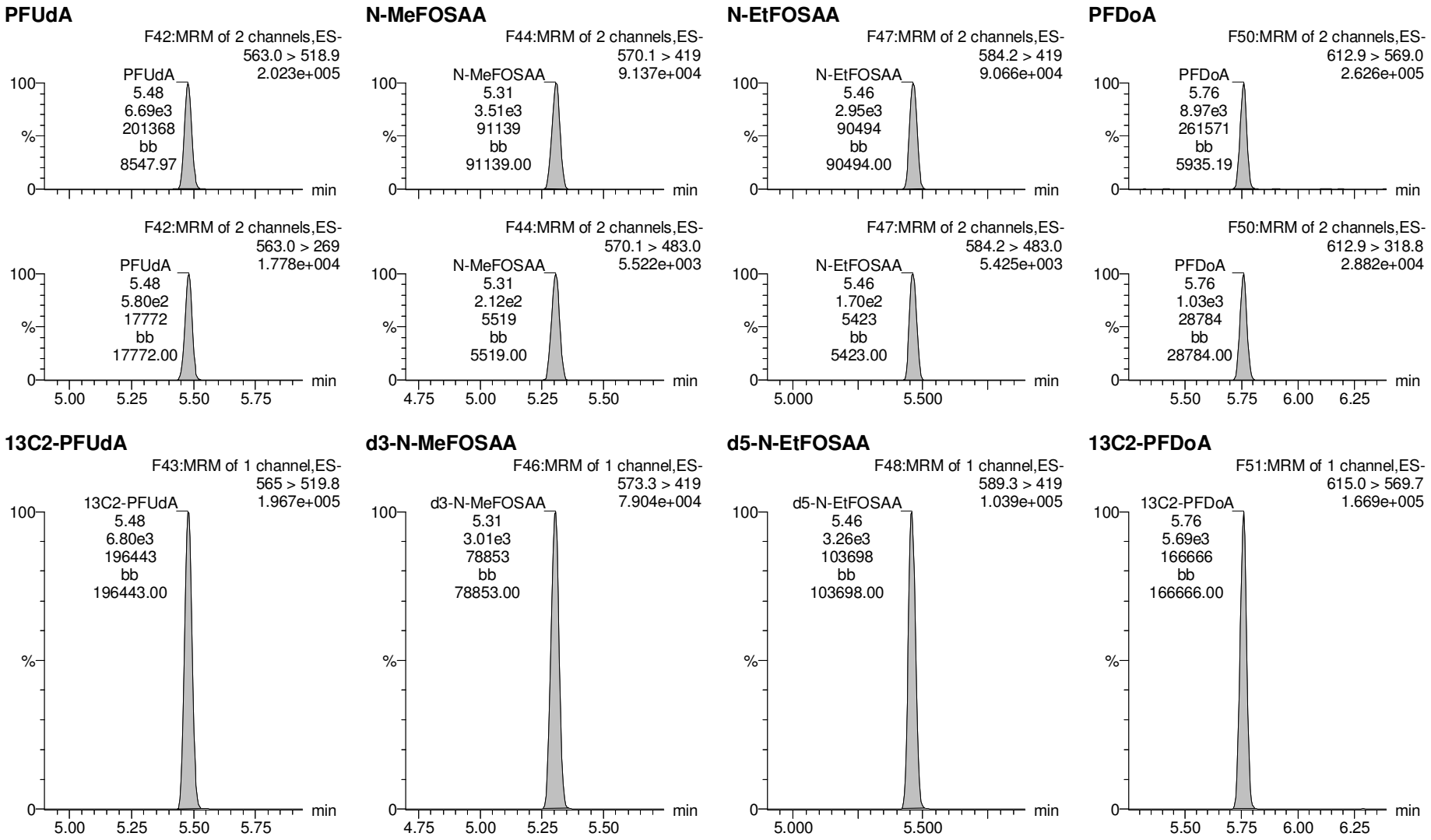


Dataset: U:\Q4.PRO\results\180115M2\180115M2-36.qld

Last Altered: Tuesday, January 16, 2018 11:43:13 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:43:57 Pacific Standard Time

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD

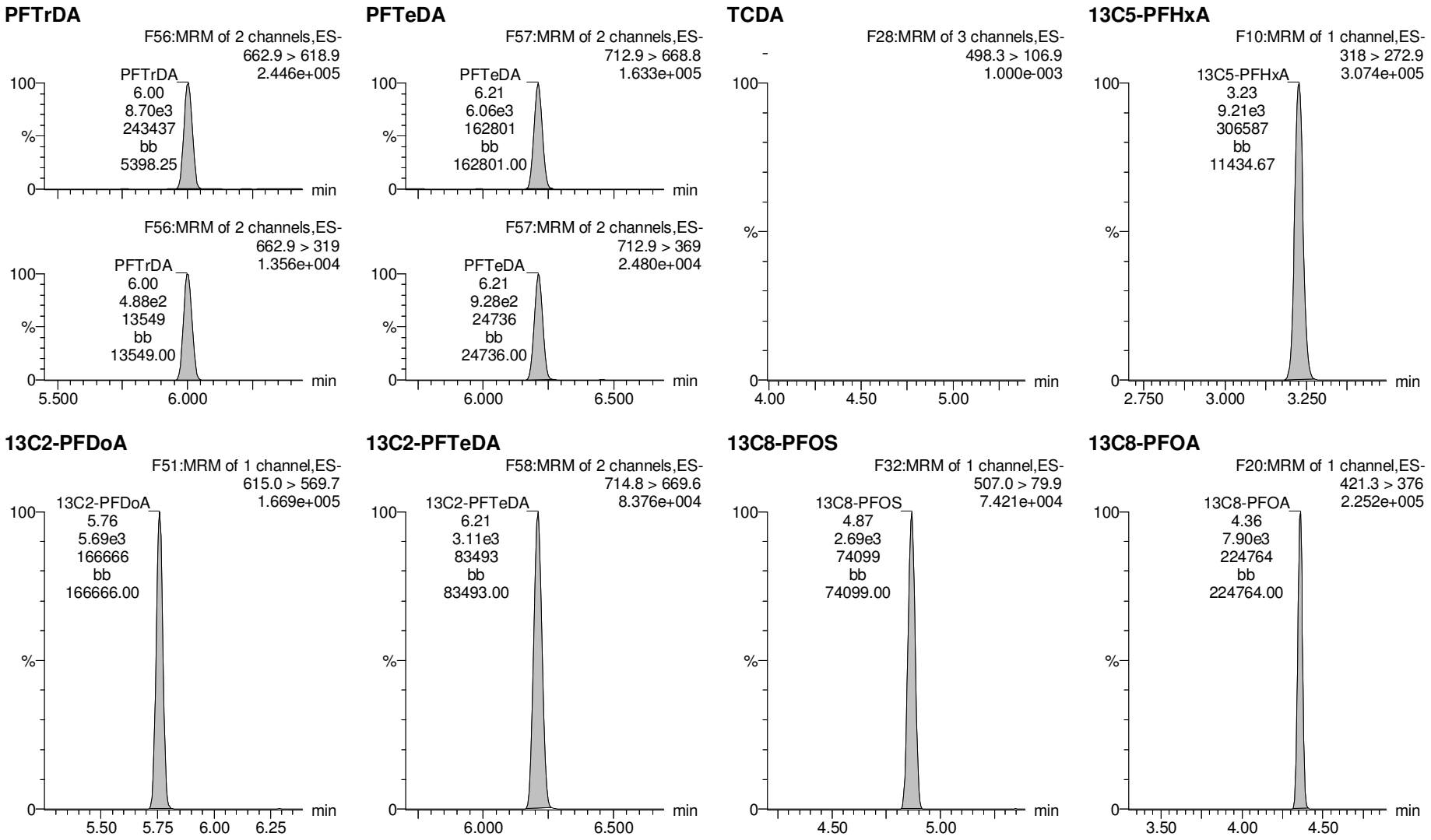


Dataset: U:\Q4.PRO\results\180115M2\180115M2-36.qld

Last Altered: Tuesday, January 16, 2018 11:43:13 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:43:57 Pacific Standard Time

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD

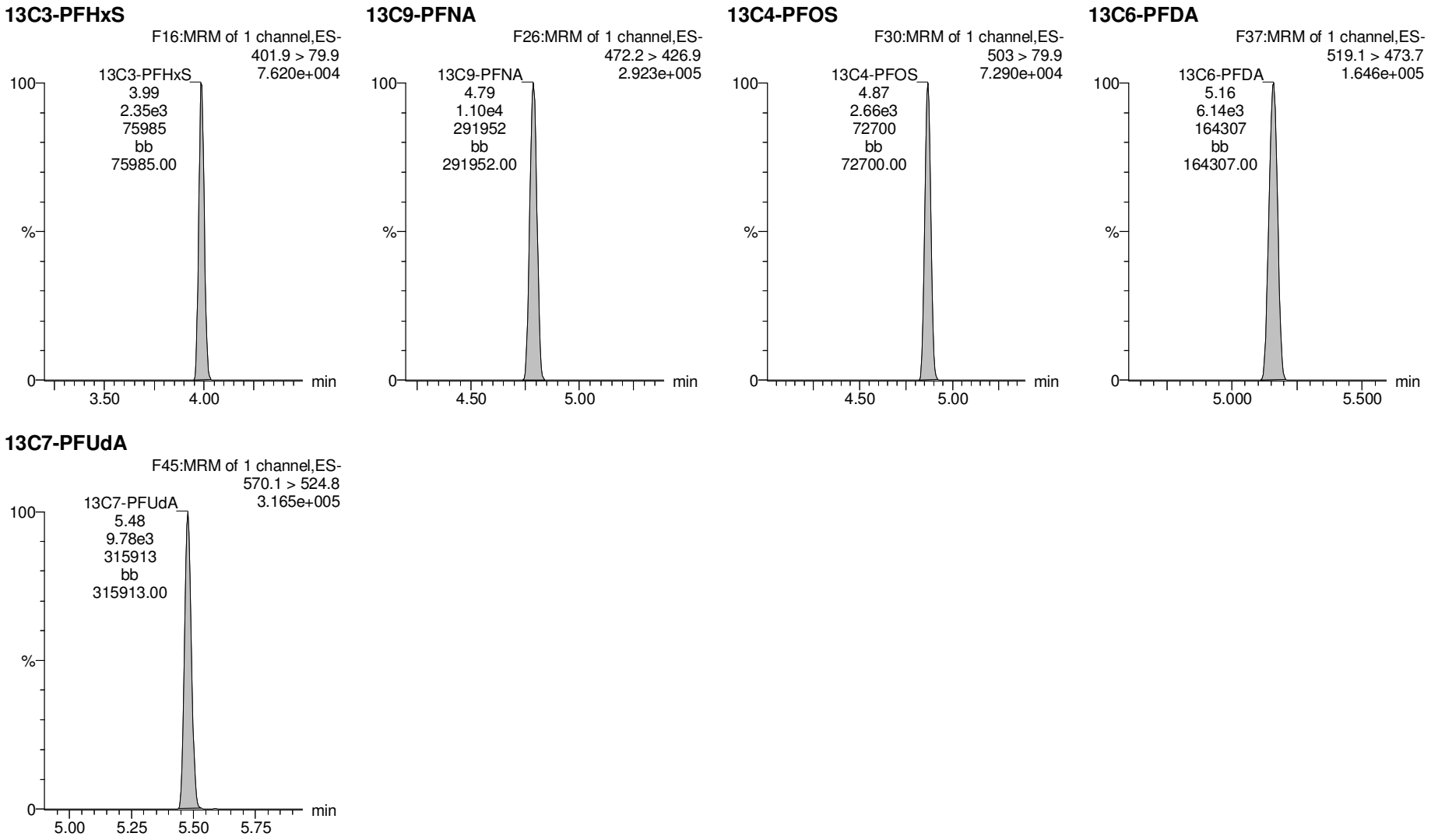


Dataset: U:\Q4.PRO\results\180115M2\180115M2-36.qld

Last Altered: Tuesday, January 16, 2018 11:43:13 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:43:57 Pacific Standard Time

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD



Dataset: U:\Q4.PRO\results\180115M2\180115M2-39.qld

Last Altered: Tuesday, January 16, 2018 11:52:14 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:52:41 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_39, Date: 16-Jan-2018, Time: 07:29:39, ID: 1701886-01 YS22-EB01-120417 0.11748, Description: YS22-EB01-120417

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		1.08e3	0.117		2.87				
2	4 PFHxA	313.2 > 268.9		2.71e3	0.117		3.36				
3	5 PFHpA	363.0 > 318.9		7.57e3	0.117		4.00				
4	6 L-PFHxS	398.9 > 79.6	2.58e0	8.98e2	0.117		4.14	3.99	0.0359		
5	9 L-PFOA	413 > 368.7		9.80e3	0.117		4.50				
6	12 PFNA	463.0 > 418.8		6.99e3	0.117		4.94				
7	14 L-PFOS	499 > 79.9		2.49e3	0.117		5.02				
8	16 PFDA	513 > 468.8		6.45e3	0.117		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.76e3	0.117		5.45				
10	19 N-EtFOSAA	584.2 > 419		3.30e3	0.117		5.60				
11	20 PFUdA	563.0 > 518.9		7.05e3	0.117		5.62				
12	22 PFDoA	612.9 > 569.0		5.04e3	0.117		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-39.qld

Last Altered: Tuesday, January 16, 2018 11:52:14 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:52:57 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_39, Date: 16-Jan-2018, Time: 07:29:39, ID: 1701886-01 YS22-EB01-120417 0.11748, Description: YS22-EB01-120417

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTTrDA	662.9 > 618.9		5.04e3	0.117		6.15				
2	25 PFTeDA	712.9 > 668.8		3.11e3	0.117		6.35				
3	33 13C3-PFBS	302. > 98.8	1.08e3	1.03e4	0.117	0.095	2.87	2.73	1.31	117.1611	110.1
4	34 13C2-PFHxA	315 > 269.8	2.71e3	1.03e4	0.117	0.636	3.36	3.23	3.29	44.0466	103.5
5	35 13C4-PFHpA	367.2 > 321.8	7.57e3	1.03e4	0.117	0.621	4.00	3.85	9.19	126.0164	118.4
6	36 18O2-PFHxS	403.0 > 102.6	8.98e2	2.56e3	0.117	0.336	4.14	3.99	4.39	111.3302	104.6
7	37 13C2-6:2 FTS	429.1 > 408.9	1.76e3	9.58e3	0.117	0.192	4.46	4.30	2.29	101.4774	95.4
8	38 13C2-PFOA	414.9 > 369.7	9.80e3	9.58e3	0.117	1.001	4.50	4.36	12.8	108.7035	102.2
9	39 13C5-PFNA	468.2 > 422.9	6.99e3	9.68e3	0.117	0.811	4.94	4.79	9.02	94.7397	89.0
10	40 13C8-PFOSA	506.1 > 77.7	1.15e3	8.53e3	0.117	0.196	5.00	4.85	1.69	73.2400	68.8
11	41 13C8-PFOS	507.0 > 79.9	2.49e3	2.76e3	0.117	0.862	5.02	4.87	11.3	111.4187	104.7
12	42 13C2-PFDA	515.1 > 469.9	6.45e3	8.14e3	0.117	0.996	5.31	5.16	9.91	84.6648	79.6
13	43 13C2-8:2 FTS	529.1 > 508.7	9.79e2	1.03e4	0.117	0.103	5.28	5.13	1.19	98.3211	92.4
14	44 d3-N-MeFOSAA	573.3 > 419	2.76e3	8.53e3	0.117	0.340	5.45	5.31	4.04	101.1098	95.0
15	45 d5-N-EtFOSAA	589.3 > 419	3.30e3	8.53e3	0.117	0.377	5.60	5.46	4.83	109.0740	102.5
16	46 13C2-PFUDa	565 > 519.8	7.05e3	8.53e3	0.117	0.944	5.62	5.48	10.3	93.0898	87.5
17	47 13C2-PFDoA	615.0 > 569.7	5.04e3	8.53e3	0.117	0.726	5.91	5.76	7.39	86.6104	81.4
18	49 13C2-PFTeDA	714.8 > 669.6	3.11e3	8.53e3	0.117	0.371	6.35	6.21	4.56	104.5471	98.3
19	55 13C5-PFHxA	318 > 272.9	1.03e4	1.03e4	0.117	1.000	3.36	3.23	12.5	106.4011	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.56e3	2.56e3	0.117	1.000	4.14	3.99	12.5	106.4011	100.0
21	57 13C8-PFOA	421.3 > 376	9.58e3	9.58e3	0.117	1.000	4.50	4.36	12.5	106.4011	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.68e3	9.68e3	0.117	1.000	4.94	4.79	12.5	106.4011	100.0
23	59 13C4-PFOS	503 > 79.9	2.76e3	2.76e3	0.117	1.000	5.02	4.87	12.5	106.4011	100.0
24	60 13C6-PFDA	519.1 > 473.7	8.14e3	8.14e3	0.117	1.000	5.31	5.16	12.5	106.4011	100.0
25	61 13C7-PFUDa	570.1 > 524.8	8.53e3	8.53e3	0.117	1.000	5.62	5.48	12.5	106.4011	100.0
26	62 Total PFHxS	398.9 > 79.6	2.58e0	8.98e2	0.117		4.14		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	9.80e3	0.117		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	2.49e3	0.117		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.76e3	0.117		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.30e3	0.117		5.61		0.000		

Dataset: U:\Q4.PRO\results\180115M2\180115M2-39.qld

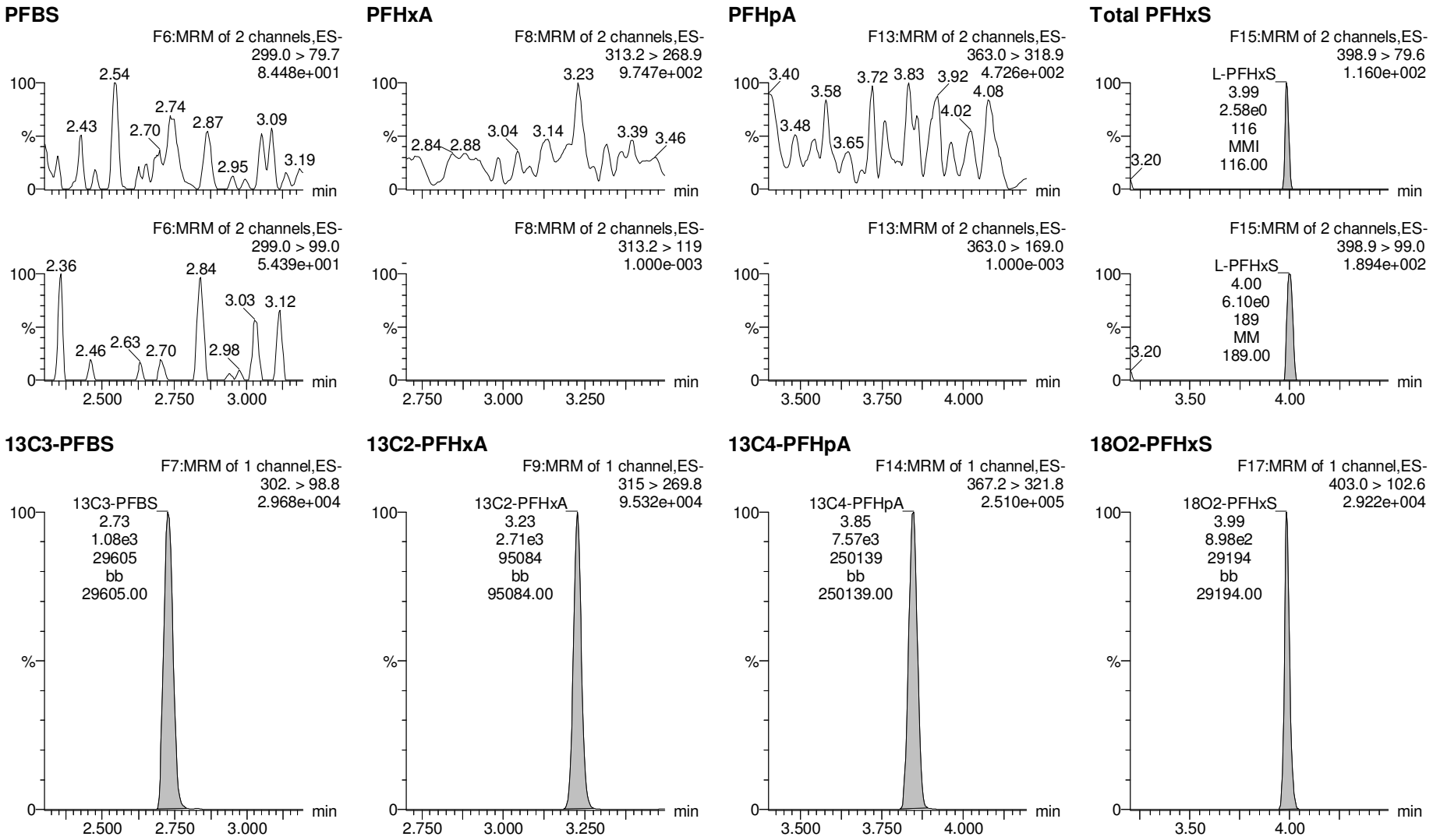
Last Altered: Tuesday, January 16, 2018 11:52:14 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:52:57 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_39, Date: 16-Jan-2018, Time: 07:29:39, ID: 1701886-01 YS22-EB01-120417 0.11748, Description: YS22-EB01-120417

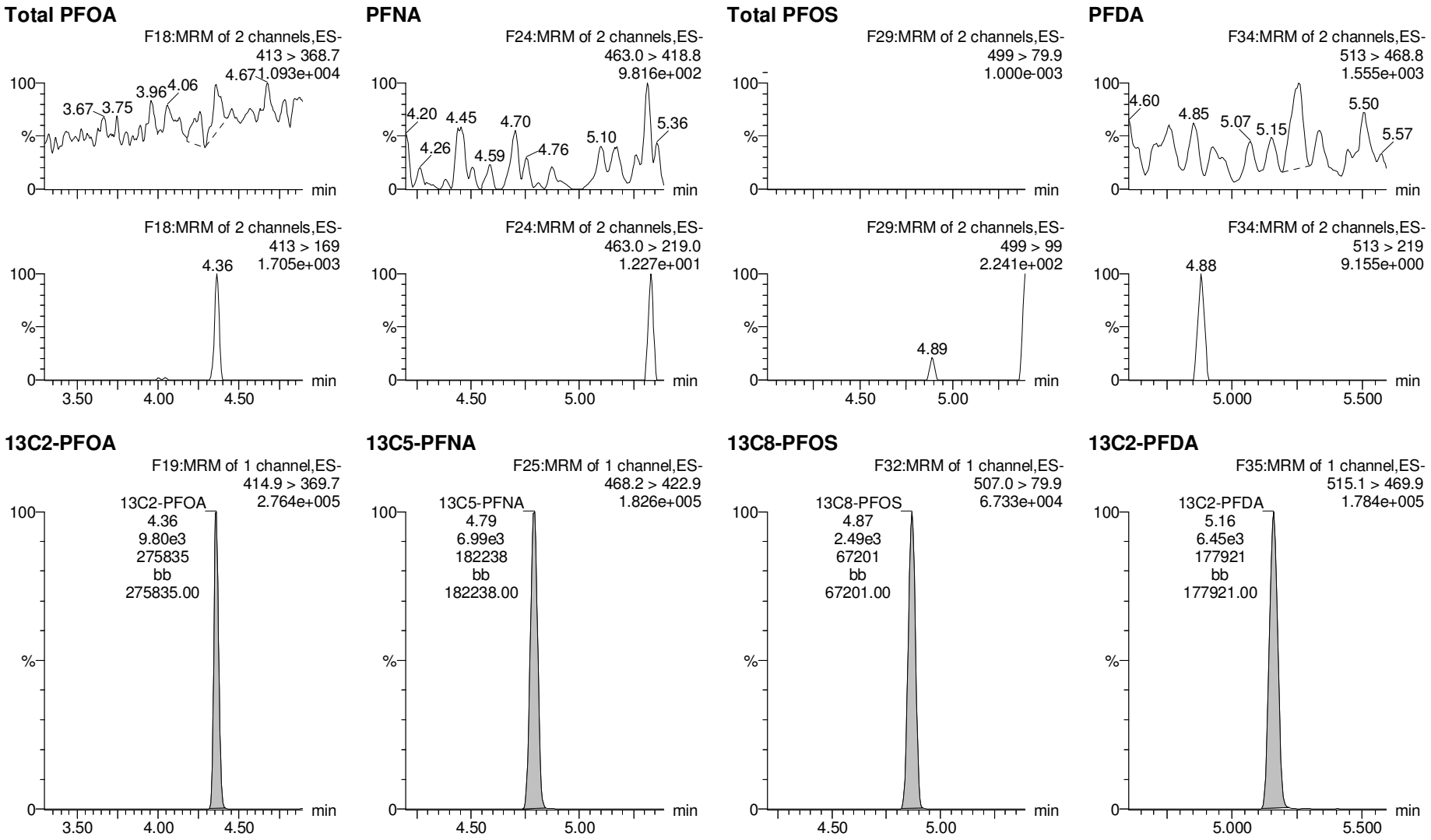


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Last Altered: Tuesday, January 16, 2018 11:52:14 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:52:57 Pacific Standard Time

Name: 180115M2_39, Date: 16-Jan-2018, Time: 07:29:39, ID: 1701886-01 YS22-EB01-120417 0.11748, Description: YS22-EB01-120417

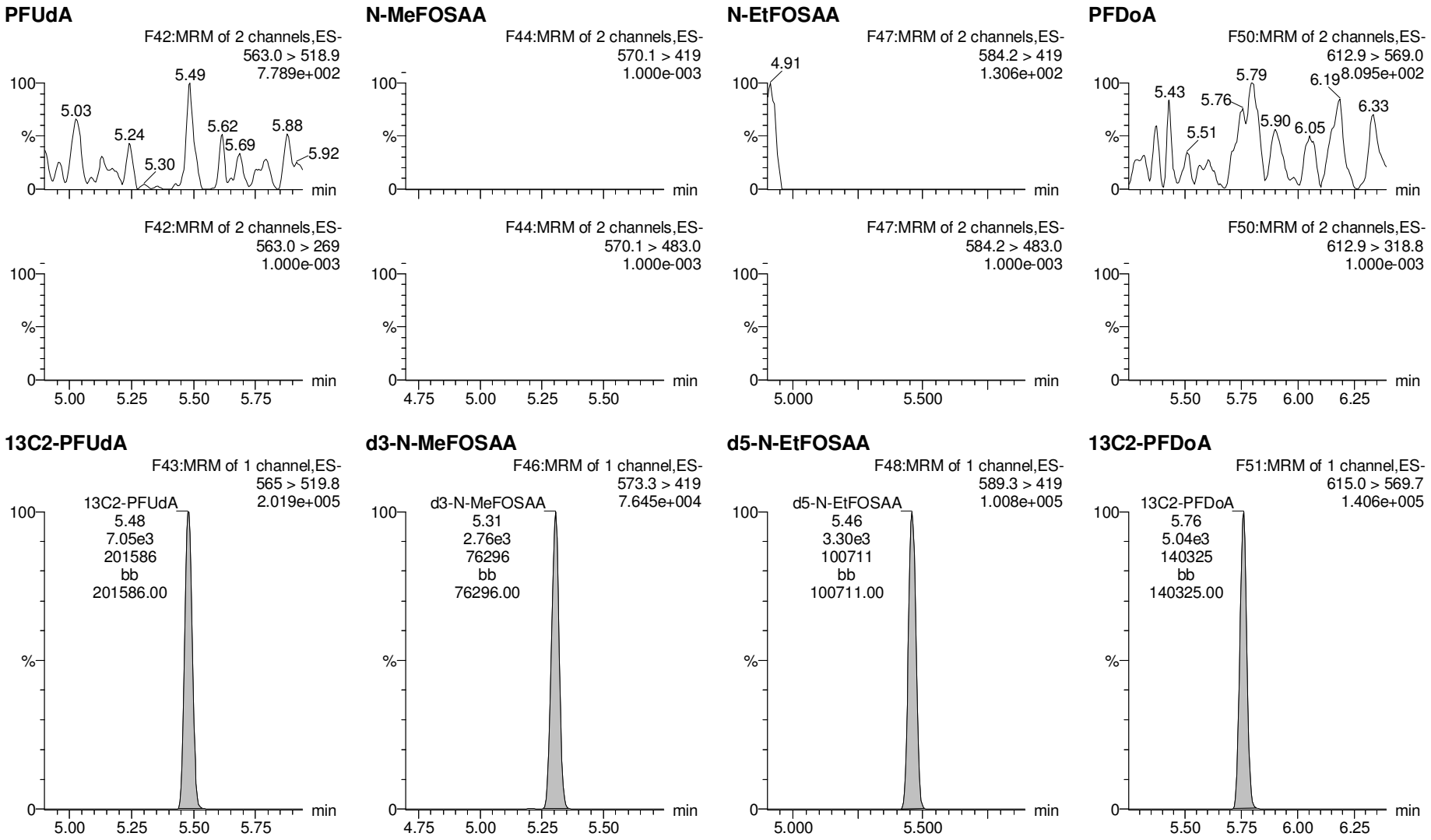


Dataset: U:\Q4.PRO\results\180115M2\180115M2-39.qld

Last Altered: Tuesday, January 16, 2018 11:52:14 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:52:57 Pacific Standard Time

Name: 180115M2_39, Date: 16-Jan-2018, Time: 07:29:39, ID: 1701886-01 YS22-EB01-120417 0.11748, Description: YS22-EB01-120417

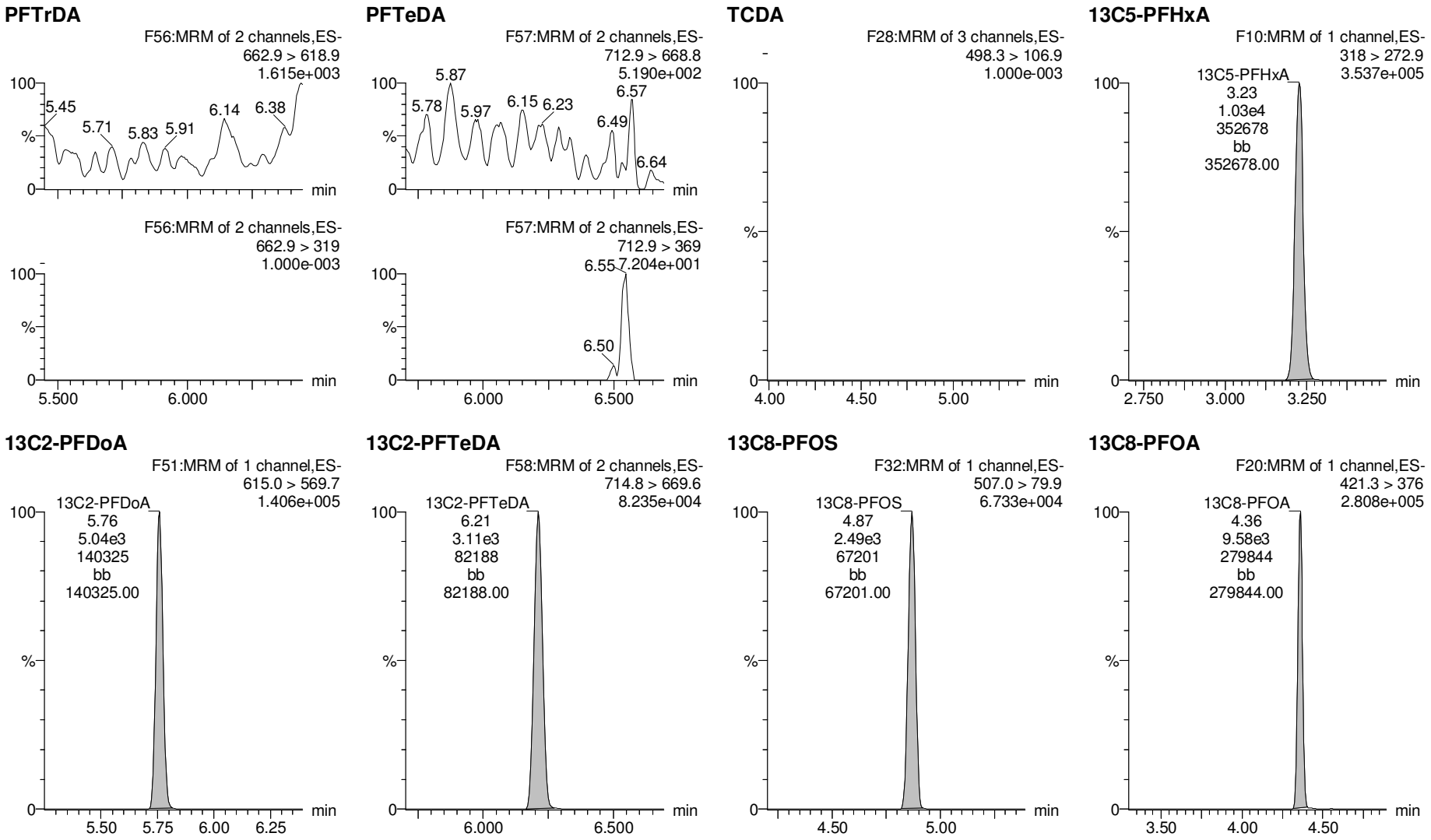


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Printed: Tuesday, January 16, 2018 11:52:57 Pacific Standard Time

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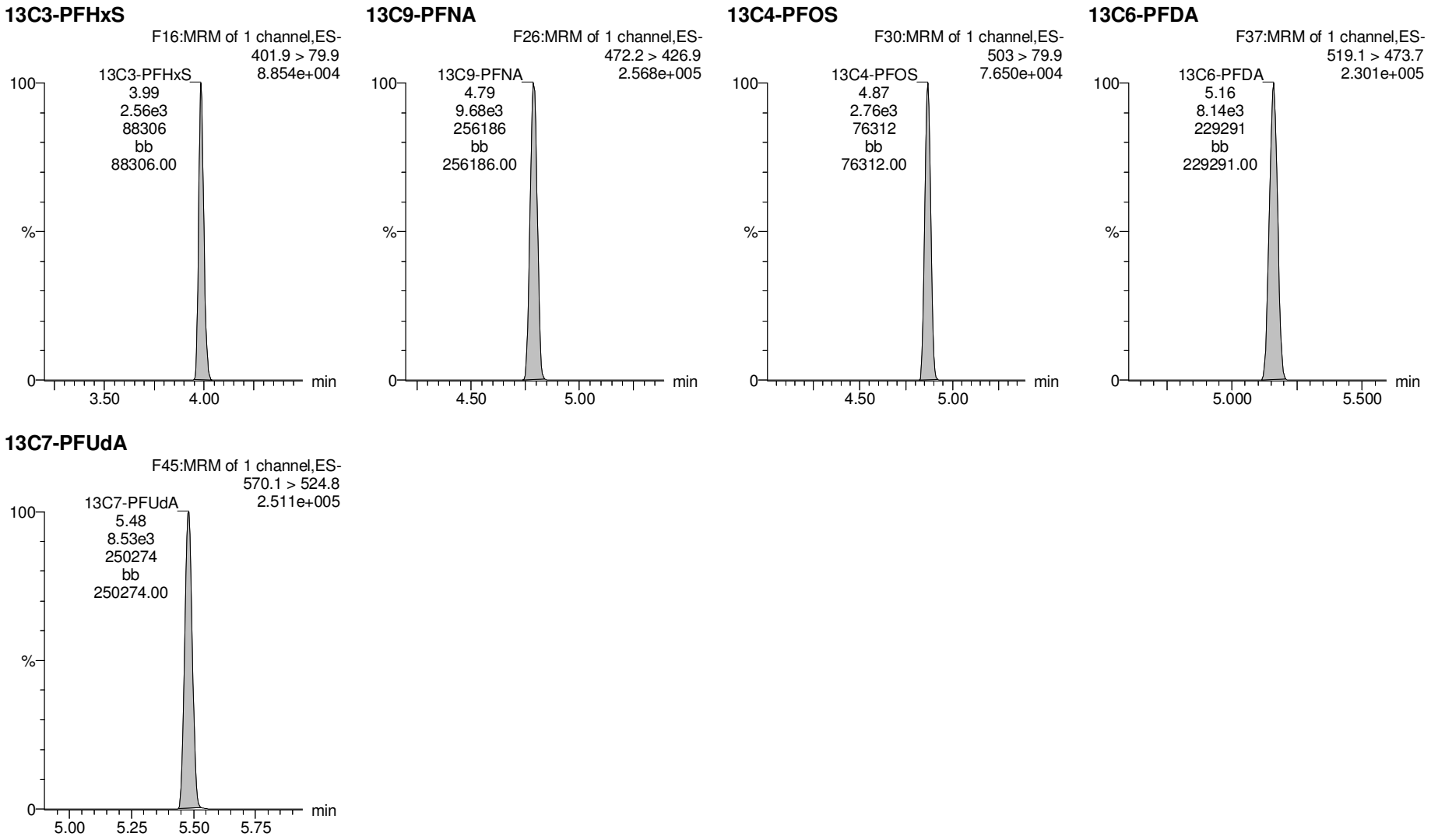


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Last Altered: Tuesday, January 16, 2018 11:52:14 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:52:57 Pacific Standard Time

Name: 180115M2_39, Date: 16-Jan-2018, Time: 07:29:39, ID: 1701886-01 YS22-EB01-120417 0.11748, Description: YS22-EB01-120417



Dataset: U:\Q4.PRO\results\180115M2\180115M2-40.qld

Last Altered: Tuesday, January 16, 2018 11:55:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:56:34 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_40, Date: 16-Jan-2018, Time: 07:41:05, ID: 1701886-02 YS22-AQ-120517 0.11801, Description: YS22-AQ-120517

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	5.52e1	9.79e2	0.118		2.87	2.73	0.705	2.0544	
2	4 PFHxA	313.2 > 268.9	3.96e2	2.63e3	0.118		3.36	3.23	0.752	3.5502	
3	5 PFHpA	363.0 > 318.9		6.29e3	0.118		4.00				
4	6 L-PFHxS	398.9 > 79.6	2.23e2	7.21e2	0.118		4.14	3.98	3.87	15.5363	
5	9 L-PFOA	413 > 368.7		9.42e3	0.118		4.50				
6	12 PFNA	463.0 > 418.8		7.17e3	0.118		4.94				
7	14 L-PFOS	499 > 79.9	2.21e2	1.96e3	0.118		5.02	4.86	1.41	11.1300	
8	16 PFDA	513 > 468.8		6.14e3	0.118		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.79e3	0.118		5.45				
10	19 N-EtFOSAA	584.2 > 419		3.42e3	0.118		5.60				
11	20 PFUdA	563.0 > 518.9		7.72e3	0.118		5.62				
12	22 PFDoA	612.9 > 569.0		5.88e3	0.118		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-40.qld

Last Altered: Tuesday, January 16, 2018 11:55:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:56:46 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_40, Date: 16-Jan-2018, Time: 07:41:05, ID: 1701886-02 YS22-AQ-120517 0.11801, Description: YS22-AQ-120517

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTTrDA	662.9 > 618.9		5.88e3	0.118		6.15				
2	25 PFTeDA	712.9 > 668.8		3.04e3	0.118		6.35				
3	33 13C3-PFBS	302. > 98.8	9.79e2	8.53e3	0.118	0.095	2.87	2.73	1.44	127.9990	120.8
4	34 13C2-PFHxA	315 > 269.8	2.63e3	8.53e3	0.118	0.636	3.36	3.23	3.86	51.3880	121.3
5	35 13C4-PFHpA	367.2 > 321.8	6.29e3	8.53e3	0.118	0.621	4.00	3.84	9.22	125.8240	118.8
6	36 18O2-PFHxS	403.0 > 102.6	7.21e2	2.28e3	0.118	0.336	4.14	3.99	3.95	99.6246	94.1
7	37 13C2-6:2 FTS	429.1 > 408.9	1.51e3	8.41e3	0.118	0.192	4.46	4.30	2.24	98.8263	93.3
8	38 13C2-PFOA	414.9 > 369.7	9.42e3	8.41e3	0.118	1.001	4.50	4.36	14.0	118.4928	111.9
9	39 13C5-PFNA	468.2 > 422.9	7.17e3	7.46e3	0.118	0.811	4.94	4.78	12.0	125.5574	118.5
10	40 13C8-PFOSA	506.1 > 77.7	1.46e3	7.43e3	0.118	0.196	5.00	4.85	2.45	105.8368	99.9
11	41 13C8-PFOS	507.0 > 79.9	1.96e3	2.08e3	0.118	0.862	5.02	4.86	11.8	115.7252	109.3
12	42 13C2-PFDA	515.1 > 469.9	6.14e3	6.28e3	0.118	0.996	5.31	5.16	12.2	103.8918	98.1
13	43 13C2-8:2 FTS	529.1 > 508.7	8.28e2	8.53e3	0.118	0.103	5.28	5.12	1.21	99.9107	94.3
14	44 d3-N-MeFOSAA	573.3 > 419	2.79e3	7.43e3	0.118	0.340	5.45	5.30	4.69	116.9853	110.4
15	45 d5-N-EtFOSAA	589.3 > 419	3.42e3	7.43e3	0.118	0.377	5.60	5.45	5.75	129.3122	122.1
16	46 13C2-PFUDa	565 > 519.8	7.72e3	7.43e3	0.118	0.944	5.62	5.47	13.0	116.6984	110.2
17	47 13C2-PFDoA	615.0 > 569.7	5.88e3	7.43e3	0.118	0.726	5.91	5.76	9.90	115.4986	109.0
18	49 13C2-PFTeDA	714.8 > 669.6	3.04e3	7.43e3	0.118	0.371	6.35	6.20	5.12	116.8620	110.3
19	55 13C5-PFHxA	318 > 272.9	8.53e3	8.53e3	0.118	1.000	3.36	3.23	12.5	105.9232	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.28e3	2.28e3	0.118	1.000	4.14	3.99	12.5	105.9232	100.0
21	57 13C8-PFOA	421.3 > 376	8.41e3	8.41e3	0.118	1.000	4.50	4.36	12.5	105.9232	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.46e3	7.46e3	0.118	1.000	4.94	4.78	12.5	105.9232	100.0
23	59 13C4-PFOS	503 > 79.9	2.08e3	2.08e3	0.118	1.000	5.02	4.86	12.5	105.9232	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.28e3	6.28e3	0.118	1.000	5.31	5.16	12.5	105.9232	100.0
25	61 13C7-PFUDa	570.1 > 524.8	7.43e3	7.43e3	0.118	1.000	5.62	5.47	12.5	105.9232	100.0
26	62 Total PFHxS	398.9 > 79.6	2.23e2	7.21e2	0.118		4.14		3.87	15.5363	
27	63 Total PFOA	413 > 368.7	0.00e0	9.42e3	0.118		4.51		0.000		
28	64 Total PFOS	499 > 79.9	2.21e2	1.96e3	0.118		5.02		1.41	11.1300	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.79e3	0.118		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	3.42e3	0.118		5.61		0.000		

Dataset: U:\Q4.PRO\results\180115M2\180115M2-40.qld

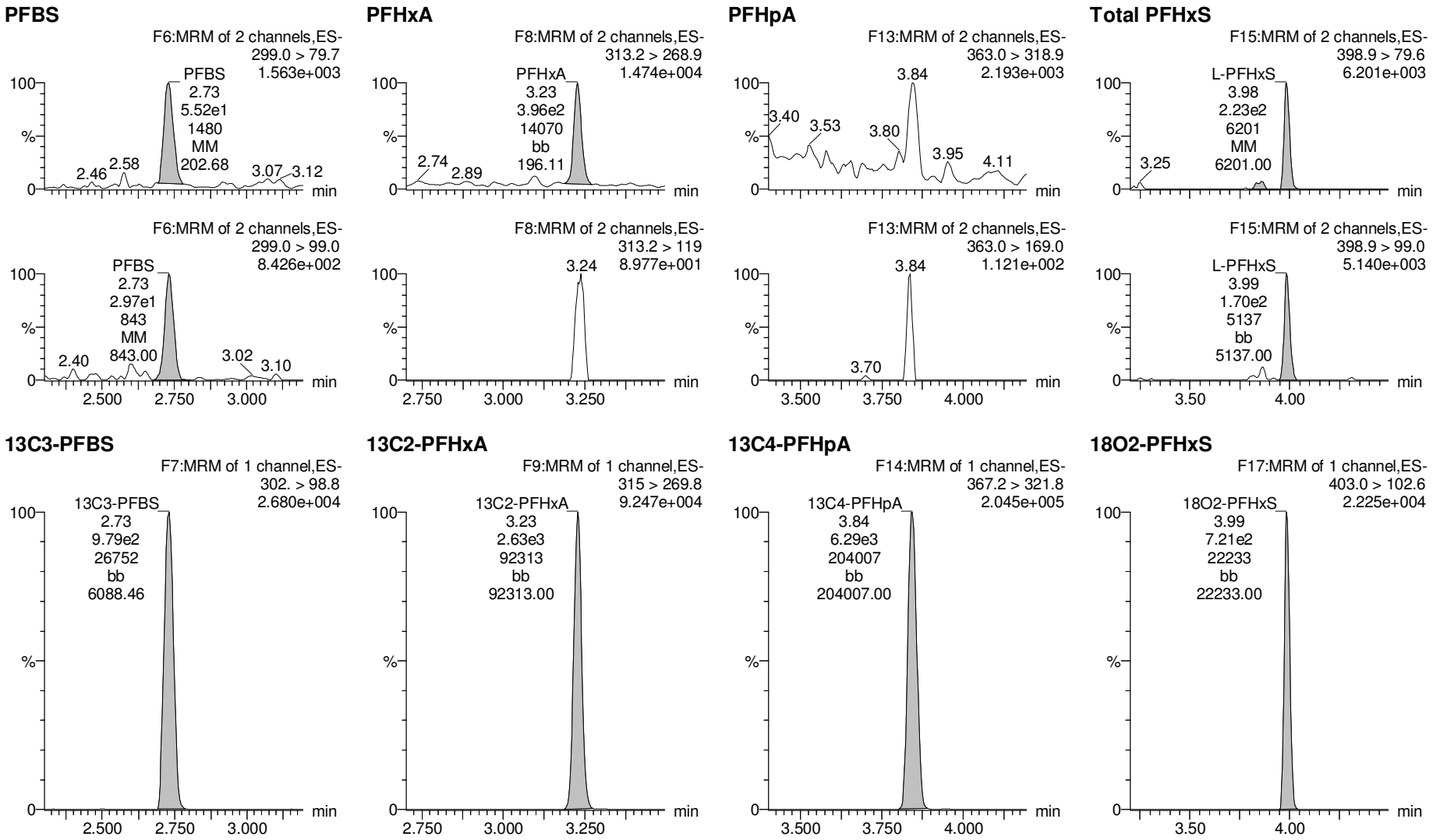
Last Altered: Tuesday, January 16, 2018 11:55:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:56:46 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_40, Date: 16-Jan-2018, Time: 07:41:05, ID: 1701886-02 YS22-AQ-120517 0.11801, Description: YS22-AQ-120517



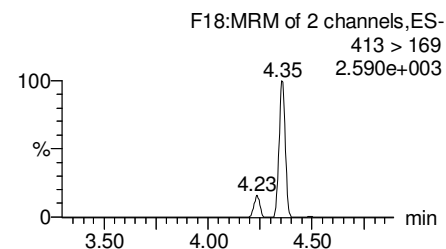
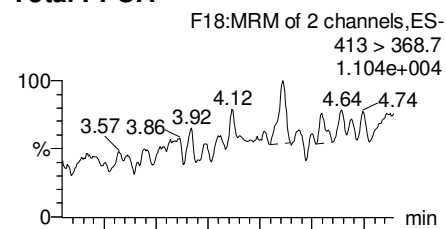
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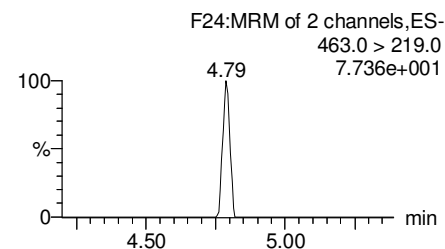
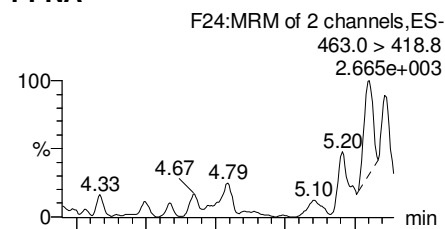
Printed: Tuesday, January 16, 2018 11:56:46 Pacific Standard Time

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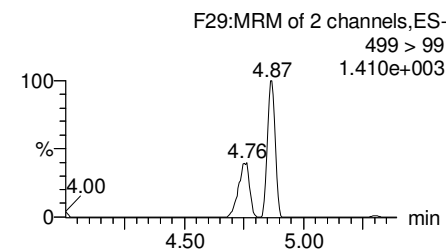
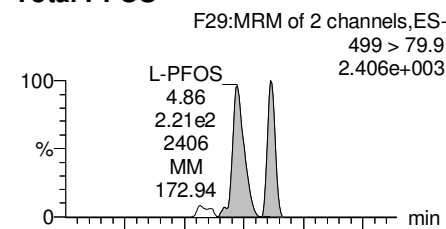
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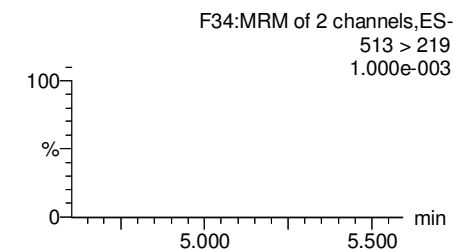
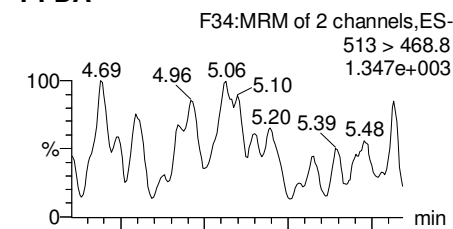
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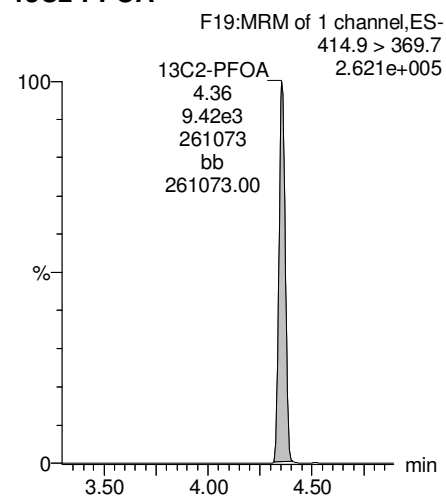
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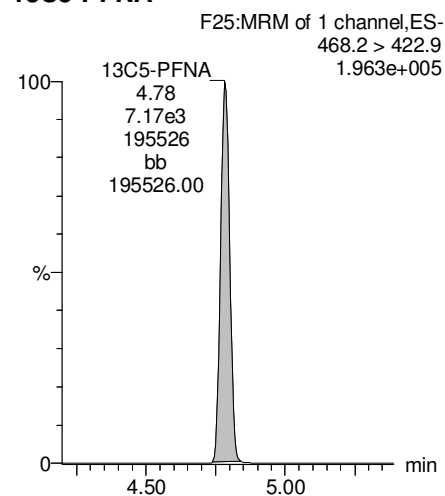
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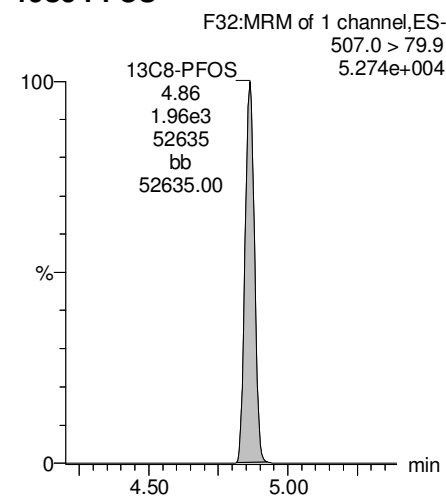
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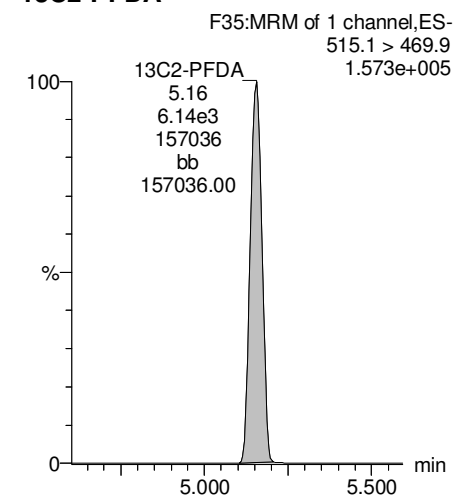
13C5-PFNA



13C8-PFOS



13C2-PFDA

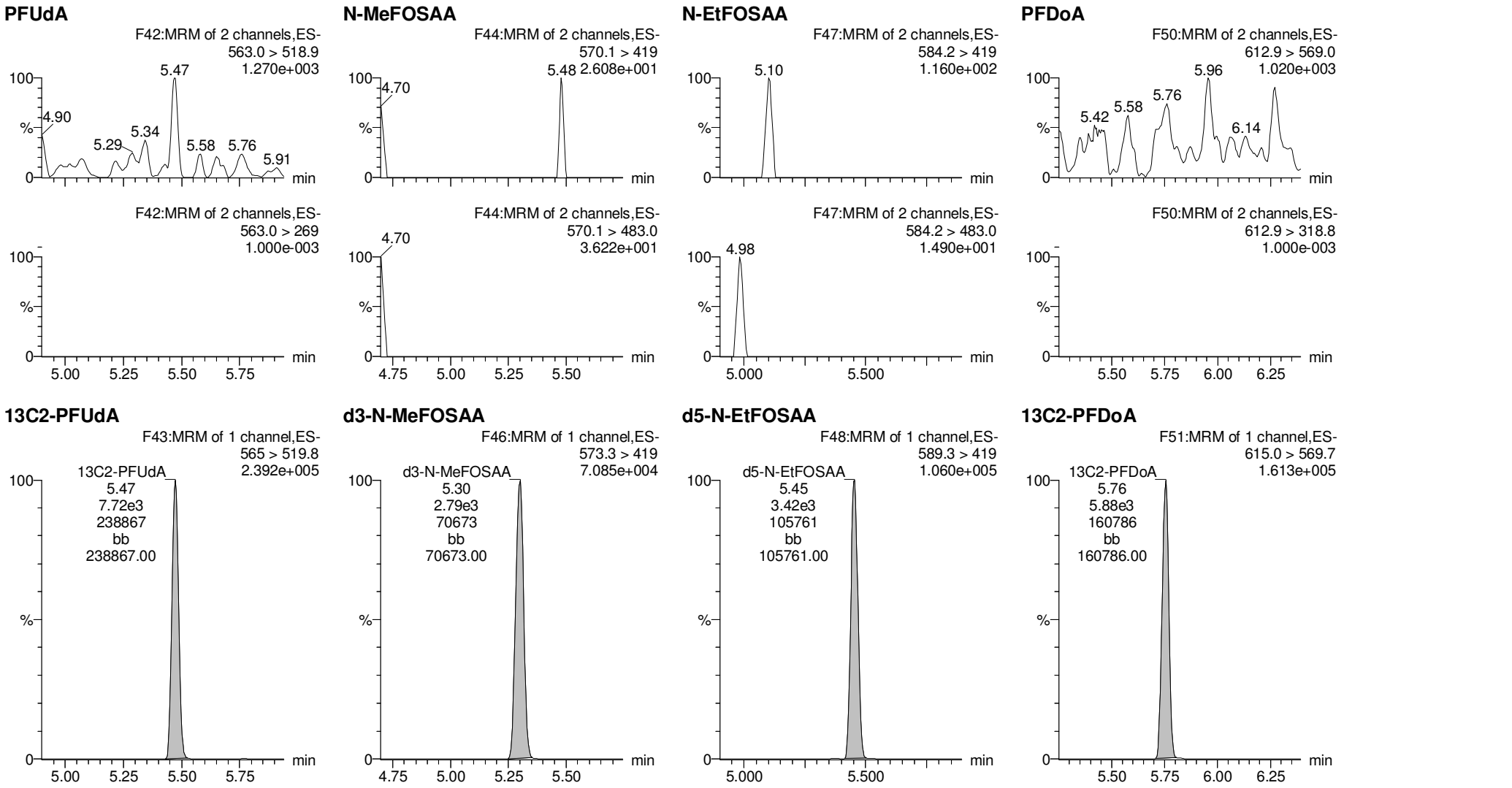


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Last Altered: Tuesday, January 16, 2018 11:55:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:56:46 Pacific Standard Time

Name: 180115M2_40, Date: 16-Jan-2018, Time: 07:41:05, ID: 1701886-02 YS22-AQ-120517 0.11801, Description: YS22-AQ-120517

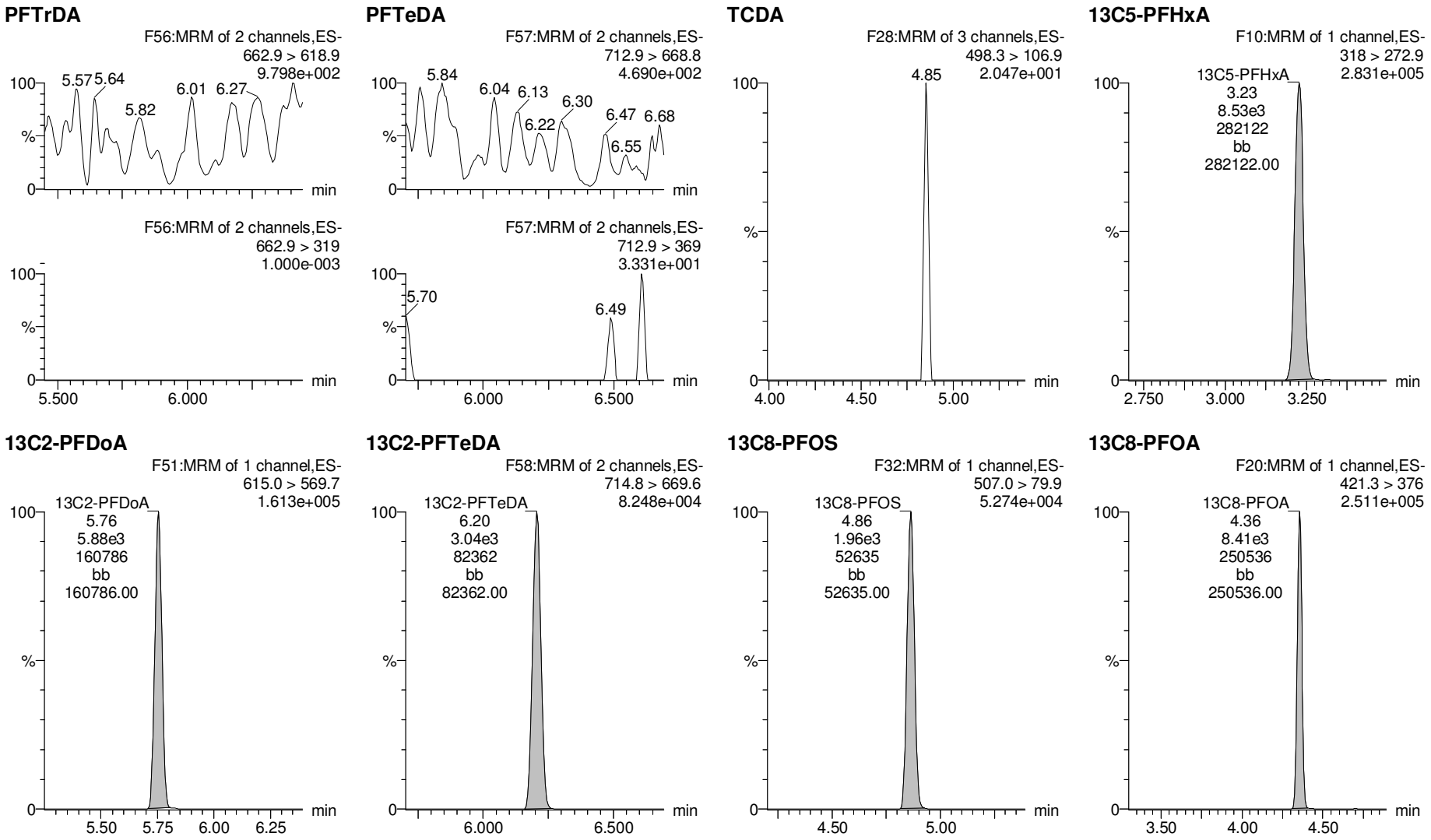


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Printed: Tuesday, January 16, 2018 11:56:46 Pacific Standard Time

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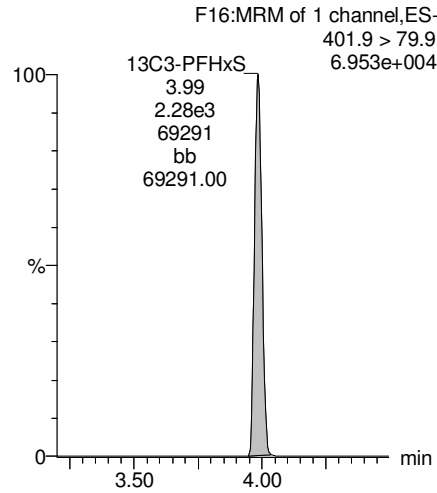


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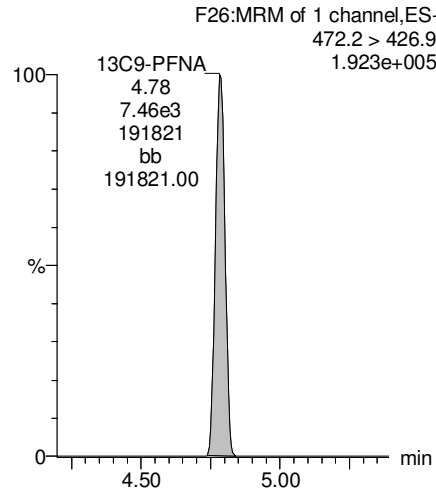
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Printed: Tuesday, January 16, 2018 11:56:46 Pacific Standard Time

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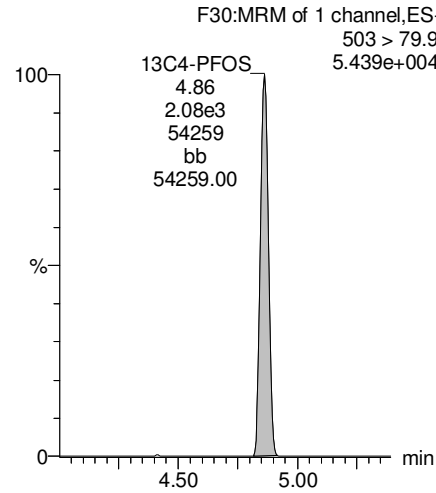
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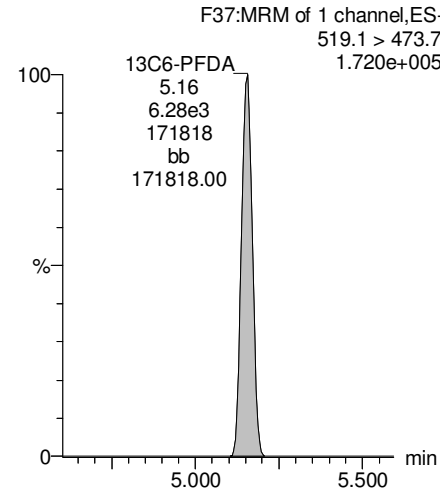
13C9-PFNA



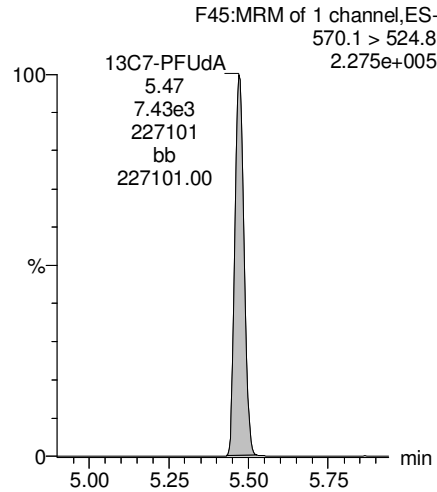
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-41.qld

Last Altered: Tuesday, January 16, 2018 11:58:08 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:58:42 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_41, Date: 16-Jan-2018, Time: 07:52:32, ID: 1701886-03 YS22-GW18-1217 0.11927, Description: YS22-GW18-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		8.94e2	0.119		2.87				
2	4 PFHxA	313.2 > 268.9		2.19e3	0.119		3.36				
3	5 PFHpA	363.0 > 318.9		6.31e3	0.119		4.00				
4	6 L-PFHxS	398.9 > 79.6		7.09e2	0.119		4.14				
5	9 L-PFOA	413 > 368.7		7.49e3	0.119		4.50				
6	12 PFNA	463.0 > 418.8		6.54e3	0.119		4.94				
7	14 L-PFOS	499 > 79.9		1.76e3	0.119		5.02				
8	16 PFDA	513 > 468.8		5.87e3	0.119		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.52e3	0.119		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.68e3	0.119		5.60				
11	20 PFUdA	563.0 > 518.9		6.48e3	0.119		5.62				
12	22 PFDoA	612.9 > 569.0		5.06e3	0.119		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-41.qld

Last Altered: Tuesday, January 16, 2018 11:58:08 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:58:54 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_41, Date: 16-Jan-2018, Time: 07:52:32, ID: 1701886-03 YS22-GW18-1217 0.11927, Description: YS22-GW18-1217

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTeDA	662.9 > 618.9		5.06e3	0.119		6.15				
2	25 PFTeDA	712.9 > 668.8		2.88e3	0.119		6.35				
3	33 13C3-PFBS	302. > 98.8	8.94e2	7.86e3	0.119	0.095	2.87	2.73	1.42	125.5048	119.8
4	34 13C2-PFHxA	315 > 269.8	2.19e3	7.86e3	0.119	0.636	3.36	3.23	3.48	45.8873	109.5
5	35 13C4-PFHpA	367.2 > 321.8	6.31e3	7.86e3	0.119	0.621	4.00	3.84	10.0	135.6708	129.5
6	36 18O2-PFHxS	403.0 > 102.6	7.09e2	1.77e3	0.119	0.336	4.14	3.98	5.00	124.8231	119.1
7	37 13C2-6:2 FTS	429.1 > 408.9	1.48e3	7.53e3	0.119	0.192	4.46	4.30	2.46	107.0142	102.1
8	38 13C2-PFOA	414.9 > 369.7	7.49e3	7.53e3	0.119	1.001	4.50	4.36	12.4	104.1123	99.3
9	39 13C5-PFNA	468.2 > 422.9	6.54e3	8.68e3	0.119	0.811	4.94	4.78	9.42	97.3843	92.9
10	40 13C8-PFOSA	506.1 > 77.7	1.31e3	7.73e3	0.119	0.196	5.00	4.85	2.11	90.1599	86.0
11	41 13C8-PFOS	507.0 > 79.9	1.76e3	2.08e3	0.119	0.862	5.02	4.86	10.6	103.0729	98.3
12	42 13C2-PFDA	515.1 > 469.9	5.87e3	5.56e3	0.119	0.996	5.31	5.16	13.2	111.1229	106.0
13	43 13C2-8:2 FTS	529.1 > 508.7	8.29e2	7.86e3	0.119	0.103	5.28	5.12	1.32	107.3542	102.4
14	44 d3-N-MeFOSAA	573.3 > 419	2.52e3	7.73e3	0.119	0.340	5.45	5.30	4.08	100.7401	96.1
15	45 d5-N-EtFOSAA	589.3 > 419	2.68e3	7.73e3	0.119	0.377	5.60	5.45	4.34	96.6248	92.2
16	46 13C2-PFUDa	565 > 519.8	6.48e3	7.73e3	0.119	0.944	5.62	5.47	10.5	93.1653	88.9
17	47 13C2-PFDoA	615.0 > 569.7	5.06e3	7.73e3	0.119	0.726	5.91	5.76	8.19	94.5589	90.2
18	49 13C2-PFTeDA	714.8 > 669.6	2.88e3	7.73e3	0.119	0.371	6.35	6.20	4.66	105.2401	100.4
19	55 13C5-PFHxA	318 > 272.9	7.86e3	7.86e3	0.119	1.000	3.36	3.22	12.5	104.8042	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.77e3	1.77e3	0.119	1.000	4.14	3.98	12.5	104.8042	100.0
21	57 13C8-PFOA	421.3 > 376	7.53e3	7.53e3	0.119	1.000	4.50	4.36	12.5	104.8042	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.68e3	8.68e3	0.119	1.000	4.94	4.78	12.5	104.8042	100.0
23	59 13C4-PFOS	503 > 79.9	2.08e3	2.08e3	0.119	1.000	5.02	4.86	12.5	104.8042	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.56e3	5.56e3	0.119	1.000	5.31	5.15	12.5	104.8042	100.0
25	61 13C7-PFUDa	570.1 > 524.8	7.73e3	7.73e3	0.119	1.000	5.62	5.47	12.5	104.8042	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	7.09e2	0.119		4.14		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	7.49e3	0.119		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	1.76e3	0.119		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.52e3	0.119		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.68e3	0.119		5.61		0.000		

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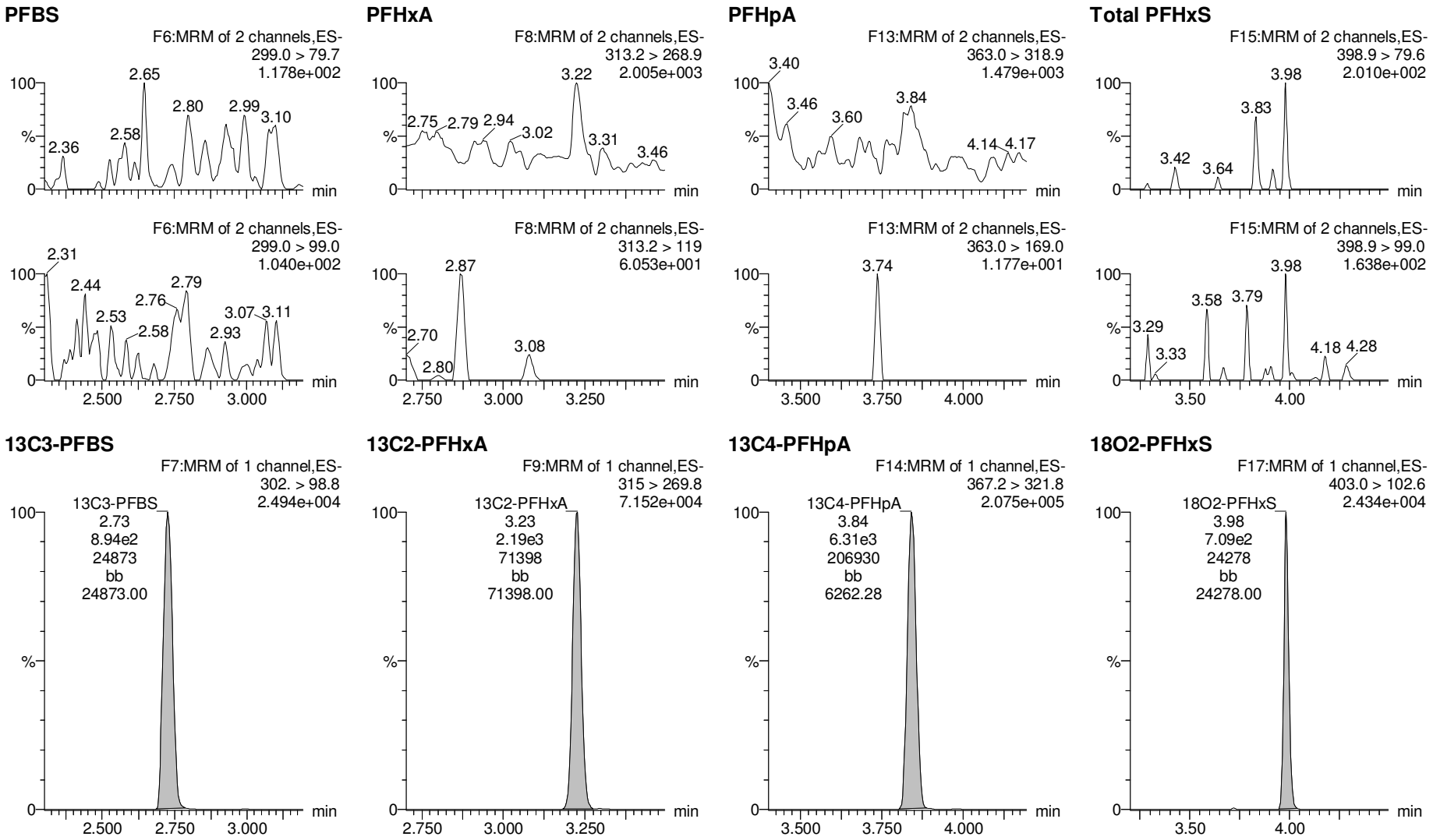
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Printed: Tuesday, January 16, 2018 11:58:54 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

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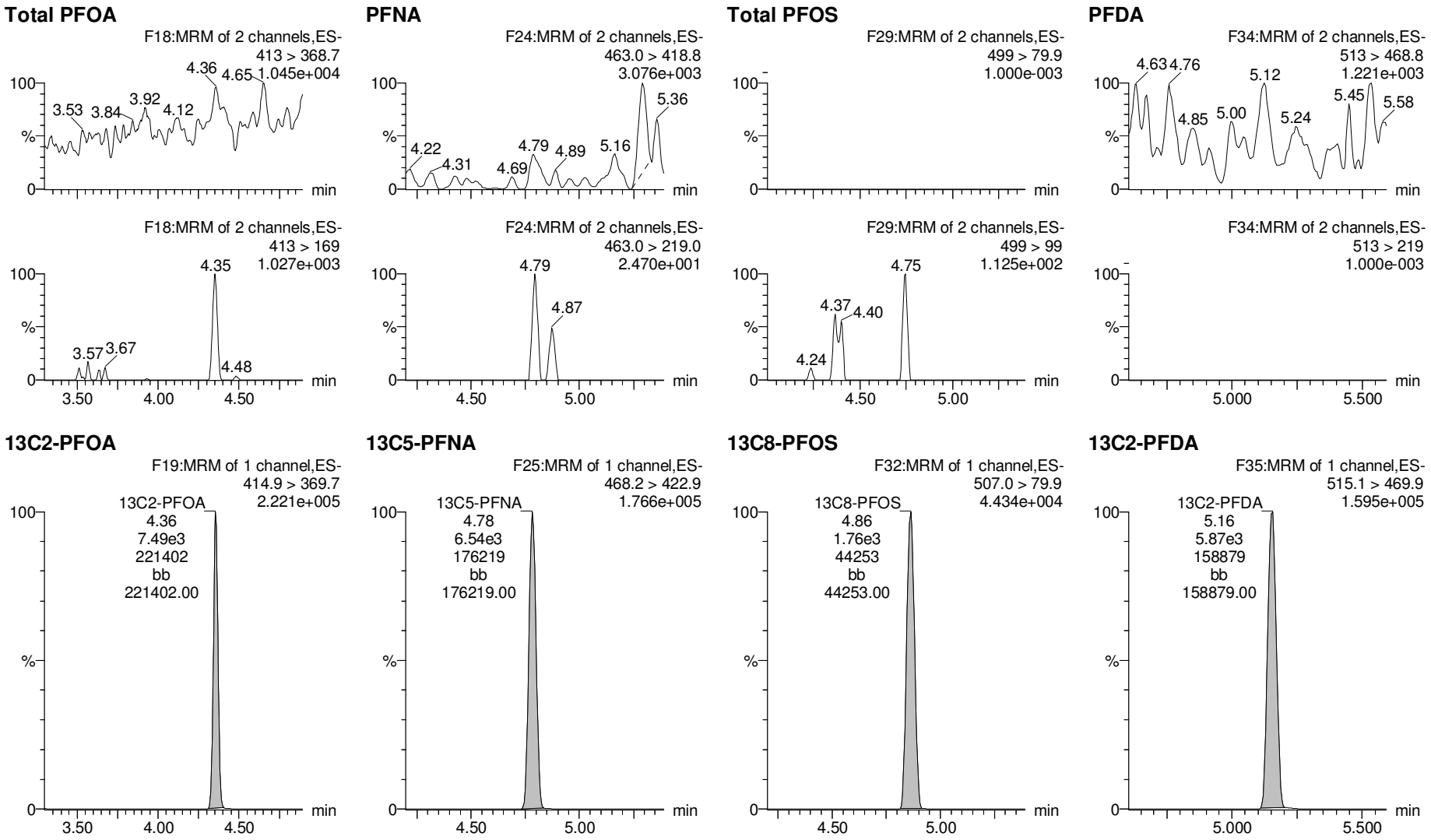
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Rev'd: MM 1/16/18

Last Altered: Tuesday, January 16, 2018 11:58:08 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:58:54 Pacific Standard Time

Name: 180115M2_41, Date: 16-Jan-2018, Time: 07:52:32, ID: 1701886-03 YS22-GW18-1217 0.11927, Description: YS22-GW18-1217

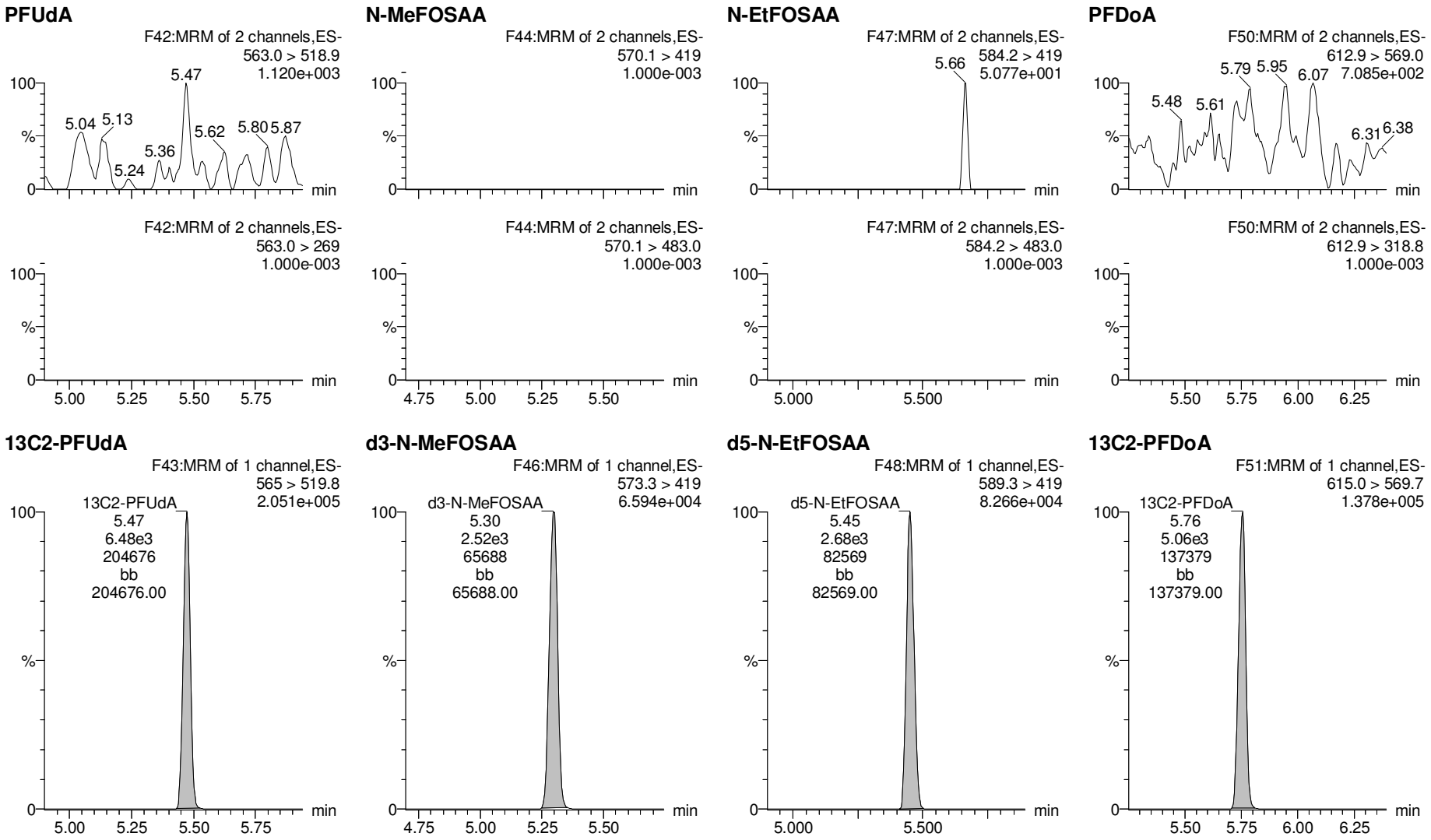


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Last Altered: Tuesday, January 16, 2018 11:58:08 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:58:54 Pacific Standard Time

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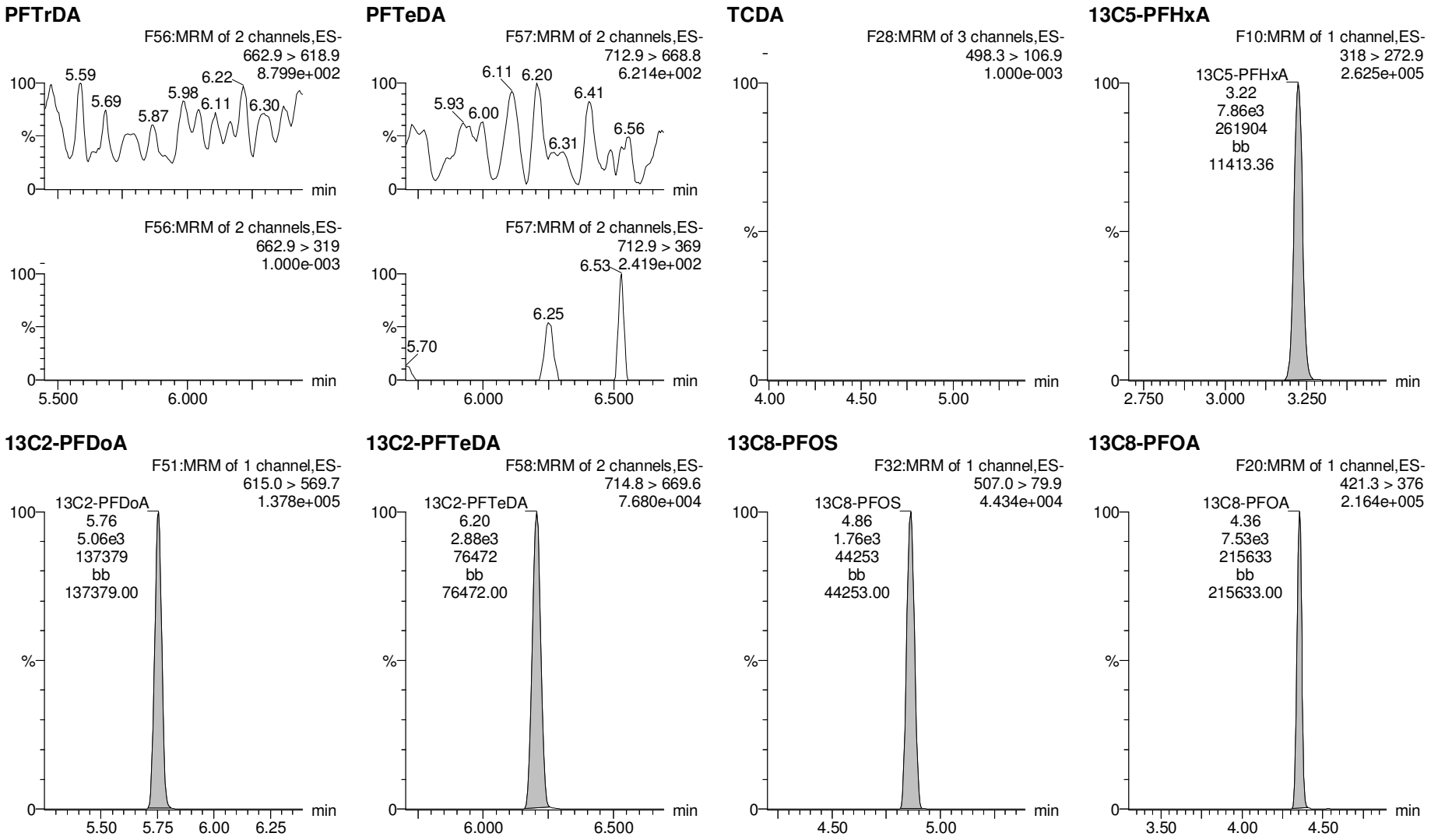


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Last Altered: Tuesday, January 16, 2018 11:58:08 Pacific Standard Time

Printed: Tuesday, January 16, 2018 11:58:54 Pacific Standard Time

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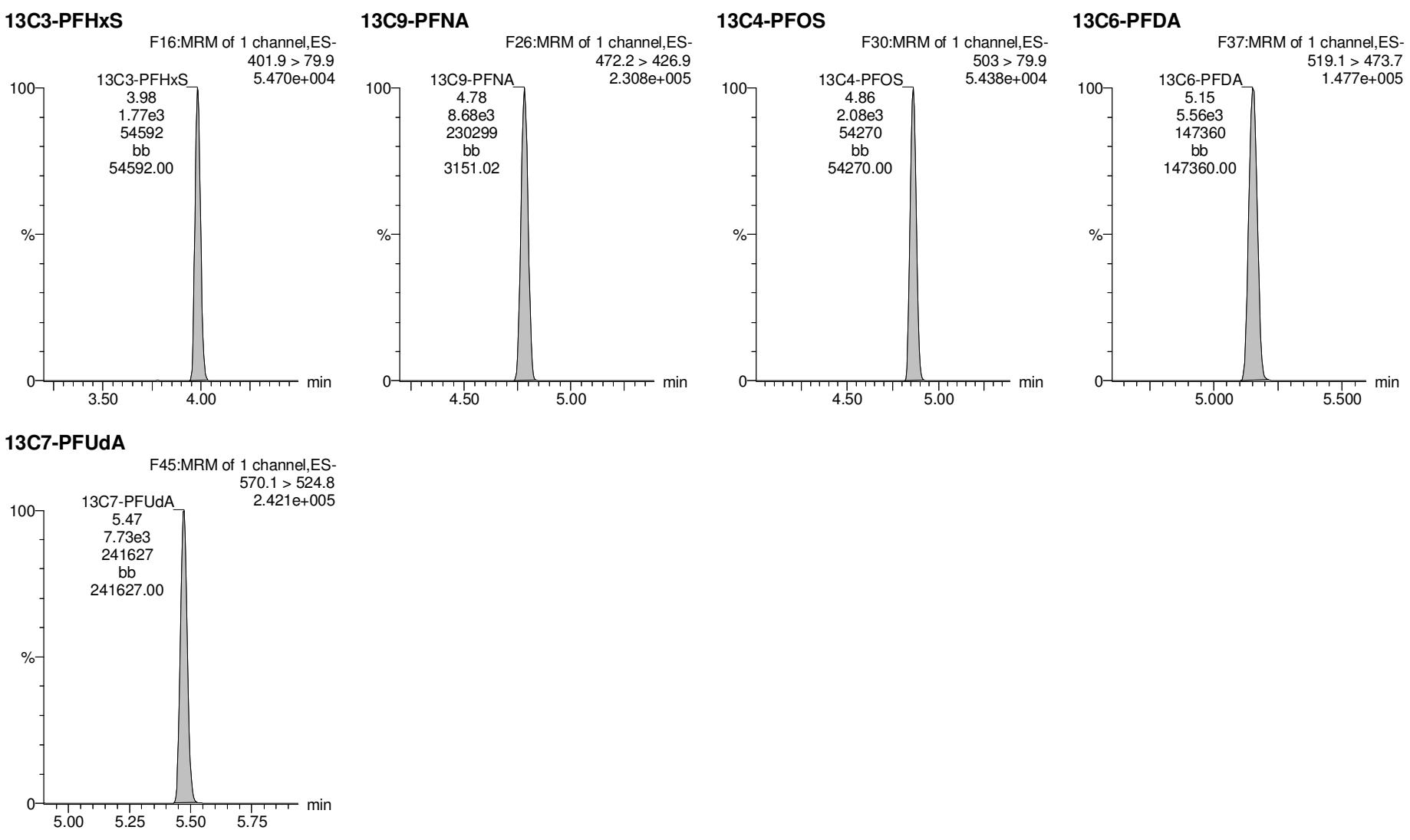


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Name: 180115M2_41, Date: 16-Jan-2018, Time: 07:52:32, ID: 1701886-03 YS22-GW18-1217 0.11927, Description: YS22-GW18-1217



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

Dataset: U:\Q4.PRO\results\180115M2\180115M2-IIS AREAS.qld

Last Altered: Tuesday, January 16, 2018 11:12:51 Pacific Standard Time

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Calibration: 16 Jan 2018 11:10:17

Name: 180115M2_6, Date: 16-Jan-2018, Time: 01:11:44, ID: ST180115M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-6 PFC CS3 17L2611	1.47e4	100.0	NO
2	2 13C5-PFHxA	ST180115M2-6 PFC CS3 17L2611	1.62e4	100.0	NO
3	3 13C3-PFHxS	ST180115M2-6 PFC CS3 17L2611	3.99e3	100.0	NO
4	4 13C8-PFOA	ST180115M2-6 PFC CS3 17L2611	1.53e4	100.0	NO
5	5 13C9-PFNA	ST180115M2-6 PFC CS3 17L2611	1.67e4	100.0	NO
6	6 13C4-PFOS	ST180115M2-6 PFC CS3 17L2611	3.92e3	100.0	NO
7	7 13C6-PFDA	ST180115M2-6 PFC CS3 17L2611	1.04e4	100.0	NO
8	8 13C7-PFUDa	ST180115M2-6 PFC CS3 17L2611	1.44e4	100.0	NO

Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-7 PFC CS4 17L1208	1.15e4	78.0	NO
2	2 13C5-PFHxA	ST180115M2-7 PFC CS4 17L1208	1.18e4	73.1	NO
3	3 13C3-PFHxS	ST180115M2-7 PFC CS4 17L1208	2.61e3	65.4	NO
4	4 13C8-PFOA	ST180115M2-7 PFC CS4 17L1208	1.16e4	75.3	NO
5	5 13C9-PFNA	ST180115M2-7 PFC CS4 17L1208	1.16e4	69.3	NO
6	6 13C4-PFOS	ST180115M2-7 PFC CS4 17L1208	3.37e3	86.0	NO
7	7 13C6-PFDA	ST180115M2-7 PFC CS4 17L1208	9.39e3	90.0	NO
8	8 13C7-PFUDa	ST180115M2-7 PFC CS4 17L1208	1.01e4	69.8	NO

Name: 180115M2_8, Date: 16-Jan-2018, Time: 01:34:38, ID: ST180115M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-8 PFC CS5 17L2613	1.17e4	79.4	NO
2	2 13C5-PFHxA	ST180115M2-8 PFC CS5 17L2613	1.35e4	83.6	NO
3	3 13C3-PFHxS	ST180115M2-8 PFC CS5 17L2613	2.52e3	63.2	NO
4	4 13C8-PFOA	ST180115M2-8 PFC CS5 17L2613	1.20e4	78.0	NO
5	5 13C9-PFNA	ST180115M2-8 PFC CS5 17L2613	1.23e4	73.7	NO
6	6 13C4-PFOS	ST180115M2-8 PFC CS5 17L2613	2.59e3	66.0	NO
7	7 13C6-PFDA	ST180115M2-8 PFC CS5 17L2613	9.28e3	88.9	NO
8	8 13C7-PFUDa	ST180115M2-8 PFC CS5 17L2613	1.44e4	99.5	NO

Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

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

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Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ICV180115M2-1 PFC ICV 17L1201	4.78e4	325.4	YES
2	2 13C5-PFHxA	ICV180115M2-1 PFC ICV 17L1201	5.13e4	317.8	YES
3	3 13C3-PFHxS	ICV180115M2-1 PFC ICV 17L1201	1.25e4	313.9	YES
4	4 13C8-PFOA	ICV180115M2-1 PFC ICV 17L1201	4.79e4	312.1	YES
5	5 13C9-PFNA	ICV180115M2-1 PFC ICV 17L1201	4.38e4	262.6	YES
6	6 13C4-PFOS	ICV180115M2-1 PFC ICV 17L1201	1.14e4	292.2	YES
7	7 13C6-PFDA	ICV180115M2-1 PFC ICV 17L1201	3.72e4	356.1	YES
8	8 13C7-PFUdA	ICV180115M2-1 PFC ICV 17L1201	1.79e4	124.3	NO

Name: 180115M2_11, Date: 16-Jan-2018, Time: 02:08:58, 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: 180115M2_12, Date: 16-Jan-2018, Time: 02:20:26, ID: 1701851-03 FT-PZ-455S-20171202 0.2638, Description: FT-PZ-455S-20171202

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701851-03 FT-PZ-455S-20171202 0.2...	8.60e3	58.5	NO
2	2 13C5-PFHxA	1701851-03 FT-PZ-455S-20171202 0.2...	1.04e4	64.2	NO
3	3 13C3-PFHxS	1701851-03 FT-PZ-455S-20171202 0.2...	2.42e3	60.7	NO
4	4 13C8-PFOA	1701851-03 FT-PZ-455S-20171202 0.2...	8.79e3	57.3	NO
5	5 13C9-PFNA	1701851-03 FT-PZ-455S-20171202 0.2...	1.07e4	64.3	NO
6	6 13C4-PFOS	1701851-03 FT-PZ-455S-20171202 0.2...	2.57e3	65.6	NO
7	7 13C6-PFDA	1701851-03 FT-PZ-455S-20171202 0.2...	7.87e3	75.4	NO
8	8 13C7-PFUdA	1701851-03 FT-PZ-455S-20171202 0.2...	9.26e3	64.2	NO

Name: 180115M2_13, Date: 16-Jan-2018, Time: 02:31:52, ID: 1701851-04 FT-PZ-455I-20171202 0.25637, Description: FT-PZ-455I-20171202

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701851-04 FT-PZ-455I-20171202 0.25...	8.34e3	56.8	NO
2	2 13C5-PFHxA	1701851-04 FT-PZ-455I-20171202 0.25...	1.01e4	62.6	NO
3	3 13C3-PFHxS	1701851-04 FT-PZ-455I-20171202 0.25...	2.64e3	66.2	NO
4	4 13C8-PFOA	1701851-04 FT-PZ-455I-20171202 0.25...	8.86e3	57.8	NO
5	5 13C9-PFNA	1701851-04 FT-PZ-455I-20171202 0.25...	9.84e3	58.9	NO
6	6 13C4-PFOS	1701851-04 FT-PZ-455I-20171202 0.25...	3.11e3	79.5	NO
7	7 13C6-PFDA	1701851-04 FT-PZ-455I-20171202 0.25...	7.12e3	68.2	NO
8	8 13C7-PFUdA	1701851-04 FT-PZ-455I-20171202 0.25...	9.78e3	67.8	NO

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Name: 180115M2_14, Date: 16-Jan-2018, Time: 02:43:19, ID: 1701851-05 FT-PZ-453S-20171202 0.23285,
Description: FT-PZ-453S-20171202

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-05 FT-PZ-453S-20171202 0.2...	8.35e3	56.8	NO
2	2	13C5-PFHxA	1701851-05 FT-PZ-453S-20171202 0.2...	9.66e3	59.8	NO
3	3	13C3-PFHxS	1701851-05 FT-PZ-453S-20171202 0.2...	2.35e3	58.8	NO
4	4	13C8-PFOA	1701851-05 FT-PZ-453S-20171202 0.2...	8.60e3	56.1	NO
5	5	13C9-PFNA	1701851-05 FT-PZ-453S-20171202 0.2...	8.81e3	52.8	NO
6	6	13C4-PFOS	1701851-05 FT-PZ-453S-20171202 0.2...	2.23e3	56.9	NO
7	7	13C6-PFDA	1701851-05 FT-PZ-453S-20171202 0.2...	7.23e3	69.3	NO
8	8	13C7-PFUDa	1701851-05 FT-PZ-453S-20171202 0.2...	7.83e3	54.3	NO

Name: 180115M2_15, Date: 16-Jan-2018, Time: 02:54:46, ID: 1701851-06 FT-PZ-453S-FRB-20171202 0.26159,
Description: FT-PZ-453S-FRB-20171202

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-06 FT-PZ-453S-FRB-2017120...	9.38e3	63.8	NO
2	2	13C5-PFHxA	1701851-06 FT-PZ-453S-FRB-2017120...	1.12e4	69.5	NO
3	3	13C3-PFHxS	1701851-06 FT-PZ-453S-FRB-2017120...	2.51e3	63.0	NO
4	4	13C8-PFOA	1701851-06 FT-PZ-453S-FRB-2017120...	1.03e4	67.4	NO
5	5	13C9-PFNA	1701851-06 FT-PZ-453S-FRB-2017120...	1.09e4	65.5	NO
6	6	13C4-PFOS	1701851-06 FT-PZ-453S-FRB-2017120...	2.34e3	59.8	NO
7	7	13C6-PFDA	1701851-06 FT-PZ-453S-FRB-2017120...	9.37e3	89.8	NO
8	8	13C7-PFUDa	1701851-06 FT-PZ-453S-FRB-2017120...	1.17e4	81.1	NO

Name: 180115M2_16, Date: 16-Jan-2018, Time: 03:06:13, ID: 1701851-07 FT-PZ-456I-FRB-20171204 0.2536,
Description: FT-PZ-456I-FRB-20171204

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-07 FT-PZ-456I-FRB-20171204...	7.89e3	53.7	NO
2	2	13C5-PFHxA	1701851-07 FT-PZ-456I-FRB-20171204...	8.86e3	54.8	NO
3	3	13C3-PFHxS	1701851-07 FT-PZ-456I-FRB-20171204...	2.28e3	57.1	NO
4	4	13C8-PFOA	1701851-07 FT-PZ-456I-FRB-20171204...	9.40e3	61.3	NO
5	5	13C9-PFNA	1701851-07 FT-PZ-456I-FRB-20171204...	7.59e3	45.5	YES
6	6	13C4-PFOS	1701851-07 FT-PZ-456I-FRB-20171204...	2.20e3	56.1	NO
7	7	13C6-PFDA	1701851-07 FT-PZ-456I-FRB-20171204...	7.25e3	69.5	NO
8	8	13C7-PFUDa	1701851-07 FT-PZ-456I-FRB-20171204...	9.02e3	62.5	NO

Name: 180115M2_17, Date: 16-Jan-2018, Time: 03:17:39, ID: 1701851-08 FT-PZ-456I-20171204 0.26041,
Description: FT-PZ-456I-20171204

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-08 FT-PZ-456I-20171204 0.26...	9.60e3	65.3	NO
2	2	13C5-PFHxA	1701851-08 FT-PZ-456I-20171204 0.26...	1.06e4	65.6	NO
3	3	13C3-PFHxS	1701851-08 FT-PZ-456I-20171204 0.26...	2.61e3	65.3	NO
4	4	13C8-PFOA	1701851-08 FT-PZ-456I-20171204 0.26...	9.59e3	62.5	NO
5	5	13C9-PFNA	1701851-08 FT-PZ-456I-20171204 0.26...	1.08e4	64.6	NO
6	6	13C4-PFOS	1701851-08 FT-PZ-456I-20171204 0.26...	2.56e3	65.4	NO
7	7	13C6-PFDA	1701851-08 FT-PZ-456I-20171204 0.26...	6.50e3	62.3	NO
8	8	13C7-PFUDa	1701851-08 FT-PZ-456I-20171204 0.26...	9.51e3	65.9	NO

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Name: 180115M2_18, Date: 16-Jan-2018, Time: 03:29:06, ID: 1701851-09 FT-PZ-456S-20171204 0.25898,
Description: FT-PZ-456S-20171204

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-09 FT-PZ-456S-20171204 0.2...	8.84e3	60.1	NO
2	2	13C5-PFHxA	1701851-09 FT-PZ-456S-20171204 0.2...	9.17e3	56.8	NO
3	3	13C3-PFHxS	1701851-09 FT-PZ-456S-20171204 0.2...	2.47e3	61.8	NO
4	4	13C8-PFOA	1701851-09 FT-PZ-456S-20171204 0.2...	9.26e3	60.4	NO
5	5	13C9-PFNA	1701851-09 FT-PZ-456S-20171204 0.2...	8.88e3	53.2	NO
6	6	13C4-PFOS	1701851-09 FT-PZ-456S-20171204 0.2...	2.17e3	55.3	NO
7	7	13C6-PFDA	1701851-09 FT-PZ-456S-20171204 0.2...	7.59e3	72.8	NO
8	8	13C7-PFUDa	1701851-09 FT-PZ-456S-20171204 0.2...	1.04e4	72.0	NO

Name: 180115M2_19, Date: 16-Jan-2018, Time: 03:40:33, ID: 1701944-01 GW-PT-CHIN-254.5-260.5 0.11993,
Description: GW-PT-CHIN-254.5-260.5

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	6.98e3	47.5	YES
2	2	13C5-PFHxA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	7.85e3	48.6	YES
3	3	13C3-PFHxS	1701944-01 GW-PT-CHIN-254.5-260.5 ...	2.26e3	56.6	NO
4	4	13C8-PFOA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	7.24e3	47.2	YES
5	5	13C9-PFNA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	7.45e3	44.6	YES
6	6	13C4-PFOS	1701944-01 GW-PT-CHIN-254.5-260.5 ...	2.34e3	59.7	NO
7	7	13C6-PFDA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	6.01e3	57.6	NO
8	8	13C7-PFUDa	1701944-01 GW-PT-CHIN-254.5-260.5 ...	8.17e3	56.7	NO

Name: 180115M2_20, Date: 16-Jan-2018, Time: 03:52:00, ID: 1701944-02 GW-PT-CHIN-71-77 0.11916,
Description: GW-PT-CHIN-71-77

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-02 GW-PT-CHIN-71-77 0.11916	7.43e3	50.5	NO
2	2	13C5-PFHxA	1701944-02 GW-PT-CHIN-71-77 0.11916	9.19e3	56.9	NO
3	3	13C3-PFHxS	1701944-02 GW-PT-CHIN-71-77 0.11916	2.43e3	60.9	NO
4	4	13C8-PFOA	1701944-02 GW-PT-CHIN-71-77 0.11916	8.91e3	58.0	NO
5	5	13C9-PFNA	1701944-02 GW-PT-CHIN-71-77 0.11916	9.21e3	55.2	NO
6	6	13C4-PFOS	1701944-02 GW-PT-CHIN-71-77 0.11916	2.21e3	56.5	NO
7	7	13C6-PFDA	1701944-02 GW-PT-CHIN-71-77 0.11916	7.93e3	76.0	NO
8	8	13C7-PFUDa	1701944-02 GW-PT-CHIN-71-77 0.11916	8.31e3	57.6	NO

Name: 180115M2_21, Date: 16-Jan-2018, Time: 04:03:27, ID: 1701944-03 GW-PT-CHIN-178-184 0.11889,
Description: GW-PT-CHIN-178-184

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-03 GW-PT-CHIN-178-184 0.11...	7.24e3	49.3	YES
2	2	13C5-PFHxA	1701944-03 GW-PT-CHIN-178-184 0.11...	8.77e3	54.3	NO
3	3	13C3-PFHxS	1701944-03 GW-PT-CHIN-178-184 0.11...	2.32e3	58.2	NO
4	4	13C8-PFOA	1701944-03 GW-PT-CHIN-178-184 0.11...	7.74e3	50.5	NO
5	5	13C9-PFNA	1701944-03 GW-PT-CHIN-178-184 0.11...	8.14e3	48.8	YES
6	6	13C4-PFOS	1701944-03 GW-PT-CHIN-178-184 0.11...	2.31e3	59.0	NO
7	7	13C6-PFDA	1701944-03 GW-PT-CHIN-178-184 0.11...	6.14e3	58.9	NO
8	8	13C7-PFUDa	1701944-03 GW-PT-CHIN-178-184 0.11...	7.98e3	55.3	NO

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Name: 180115M2_22, Date: 16-Jan-2018, Time: 04:14:54, ID: 1701944-04 GW-PT-CHIN-108-114 0.12008, Description: GW-PT-CHIN-108-114

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-04 GW-PT-CHIN-108-114 0.12...	7.61e3	51.7	NO
2	2	13C5-PFHxA	1701944-04 GW-PT-CHIN-108-114 0.12...	9.93e3	61.5	NO
3	3	13C3-PFHxS	1701944-04 GW-PT-CHIN-108-114 0.12...	2.66e3	66.6	NO
4	4	13C8-PFOA	1701944-04 GW-PT-CHIN-108-114 0.12...	7.85e3	51.1	NO
5	5	13C9-PFNA	1701944-04 GW-PT-CHIN-108-114 0.12...	8.66e3	51.9	NO
6	6	13C4-PFOS	1701944-04 GW-PT-CHIN-108-114 0.12...	2.39e3	60.9	NO
7	7	13C6-PFDA	1701944-04 GW-PT-CHIN-108-114 0.12...	5.87e3	56.3	NO
8	8	13C7-PFUdA	1701944-04 GW-PT-CHIN-108-114 0.12...	9.31e3	64.5	NO

Name: 180115M2_23, Date: 16-Jan-2018, Time: 04:26:21, ID: 1701944-05 GW-PT-CHIN-57-63 0.11948, Description: GW-PT-CHIN-57-63

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-05 GW-PT-CHIN-57-63 0.11948	6.76e3	46.0	YES
2	2	13C5-PFHxA	1701944-05 GW-PT-CHIN-57-63 0.11948	8.03e3	49.7	YES
3	3	13C3-PFHxS	1701944-05 GW-PT-CHIN-57-63 0.11948	2.16e3	54.1	NO
4	4	13C8-PFOA	1701944-05 GW-PT-CHIN-57-63 0.11948	8.59e3	56.0	NO
5	5	13C9-PFNA	1701944-05 GW-PT-CHIN-57-63 0.11948	6.49e3	38.9	YES
6	6	13C4-PFOS	1701944-05 GW-PT-CHIN-57-63 0.11948	2.00e3	51.2	NO
7	7	13C6-PFDA	1701944-05 GW-PT-CHIN-57-63 0.11948	6.27e3	60.1	NO
8	8	13C7-PFUdA	1701944-05 GW-PT-CHIN-57-63 0.11948	8.23e3	57.0	NO

Name: 180115M2_24, Date: 16-Jan-2018, Time: 04:37:48, ID: 1701944-06 FB-PT-Diwater 0.11902, Description: FB-PT-Diwater

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-06 FB-PT-Diwater 0.11902	8.06e3	54.9	NO
2	2	13C5-PFHxA	1701944-06 FB-PT-Diwater 0.11902	9.54e3	59.0	NO
3	3	13C3-PFHxS	1701944-06 FB-PT-Diwater 0.11902	2.38e3	59.7	NO
4	4	13C8-PFOA	1701944-06 FB-PT-Diwater 0.11902	8.10e3	52.8	NO
5	5	13C9-PFNA	1701944-06 FB-PT-Diwater 0.11902	8.91e3	53.4	NO
6	6	13C4-PFOS	1701944-06 FB-PT-Diwater 0.11902	2.22e3	56.6	NO
7	7	13C6-PFDA	1701944-06 FB-PT-Diwater 0.11902	7.44e3	71.3	NO
8	8	13C7-PFUdA	1701944-06 FB-PT-Diwater 0.11902	9.42e3	65.3	NO

Name: 180115M2_25, Date: 16-Jan-2018, Time: 04:49:15, ID: IPA, Description: IPA

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

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Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-9 PFC CS3 17L2611	1.55e4	105.5	NO
2	2 13C5-PFHxA	ST180115M2-9 PFC CS3 17L2611	1.78e4	109.9	NO
3	3 13C3-PFHxS	ST180115M2-9 PFC CS3 17L2611	4.51e3	113.1	NO
4	4 13C8-PFOA	ST180115M2-9 PFC CS3 17L2611	1.33e4	86.5	NO
5	5 13C9-PFNA	ST180115M2-9 PFC CS3 17L2611	1.40e4	84.1	NO
6	6 13C4-PFOS	ST180115M2-9 PFC CS3 17L2611	3.96e3	101.0	NO
7	7 13C6-PFDA	ST180115M2-9 PFC CS3 17L2611	1.08e4	103.8	NO
8	8 13C7-PFUDa	ST180115M2-9 PFC CS3 17L2611	1.63e4	113.2	NO

Name: 180115M2_27, Date: 16-Jan-2018, Time: 05:12:08, 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: 180115M2_28, Date: 16-Jan-2018, Time: 05:23:43, ID: 1701944-07 GW-PT-CHIN-254.5-260.5-Dup 0.11913, Description: GW-PT-CHIN-254.5-260.5-Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-07 GW-PT-CHIN-254.5-260.5-...	6.74e3	45.8	YES
2	2 13C5-PFHxA	1701944-07 GW-PT-CHIN-254.5-260.5-...	7.67e3	47.5	YES
3	3 13C3-PFHxS	1701944-07 GW-PT-CHIN-254.5-260.5-...	2.17e3	54.4	NO
4	4 13C8-PFOA	1701944-07 GW-PT-CHIN-254.5-260.5-...	6.41e3	41.7	YES
5	5 13C9-PFNA	1701944-07 GW-PT-CHIN-254.5-260.5-...	6.97e3	41.8	YES
6	6 13C4-PFOS	1701944-07 GW-PT-CHIN-254.5-260.5-...	2.11e3	53.8	NO
7	7 13C6-PFDA	1701944-07 GW-PT-CHIN-254.5-260.5-...	5.30e3	50.8	NO
8	8 13C7-PFUDa	1701944-07 GW-PT-CHIN-254.5-260.5-...	8.44e3	58.5	NO

Name: 180115M2_29, Date: 16-Jan-2018, Time: 05:35:10, ID: 1701944-08 GW-PT-CHIN-116-122 0.11949, Description: GW-PT-CHIN-116-122

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-08 GW-PT-CHIN-116-122 0.11...	7.70e3	52.4	NO
2	2 13C5-PFHxA	1701944-08 GW-PT-CHIN-116-122 0.11...	8.06e3	49.9	NO
3	3 13C3-PFHxS	1701944-08 GW-PT-CHIN-116-122 0.11...	2.51e3	62.8	NO
4	4 13C8-PFOA	1701944-08 GW-PT-CHIN-116-122 0.11...	8.37e3	54.6	NO
5	5 13C9-PFNA	1701944-08 GW-PT-CHIN-116-122 0.11...	7.95e3	47.6	YES
6	6 13C4-PFOS	1701944-08 GW-PT-CHIN-116-122 0.11...	2.34e3	59.8	NO
7	7 13C6-PFDA	1701944-08 GW-PT-CHIN-116-122 0.11...	5.90e3	56.5	NO
8	8 13C7-PFUDa	1701944-08 GW-PT-CHIN-116-122 0.11...	9.04e3	62.6	NO

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Name: 180115M2_30, Date: 16-Jan-2018, Time: 05:46:37, ID: 1701944-09 EB-PT-Waterlevel 0.10468, Description: EB-PT-Waterlevel

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-09 EB-PT-Waterlevel 0.10468	8.59e3	58.4	NO
2	2	13C5-PFHxA	1701944-09 EB-PT-Waterlevel 0.10468	9.71e3	60.1	NO
3	3	13C3-PFHxS	1701944-09 EB-PT-Waterlevel 0.10468	2.43e3	61.0	NO
4	4	13C8-PFOA	1701944-09 EB-PT-Waterlevel 0.10468	8.49e3	55.3	NO
5	5	13C9-PFNA	1701944-09 EB-PT-Waterlevel 0.10468	8.11e3	48.6	YES
6	6	13C4-PFOS	1701944-09 EB-PT-Waterlevel 0.10468	2.55e3	65.1	NO
7	7	13C6-PFDA	1701944-09 EB-PT-Waterlevel 0.10468	6.69e3	64.2	NO
8	8	13C7-PFUDa	1701944-09 EB-PT-Waterlevel 0.10468	9.80e3	67.9	NO

Name: 180115M2_31, Date: 16-Jan-2018, Time: 05:58:04, ID: 1701944-10 EB-PT-grundfos 0.11733, Description: EB-PT-grundfos

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-10 EB-PT-grundfos 0.11733	7.26e3	49.4	YES
2	2	13C5-PFHxA	1701944-10 EB-PT-grundfos 0.11733	8.99e3	55.6	NO
3	3	13C3-PFHxS	1701944-10 EB-PT-grundfos 0.11733	2.33e3	58.3	NO
4	4	13C8-PFOA	1701944-10 EB-PT-grundfos 0.11733	7.78e3	50.7	NO
5	5	13C9-PFNA	1701944-10 EB-PT-grundfos 0.11733	8.60e3	51.5	NO
6	6	13C4-PFOS	1701944-10 EB-PT-grundfos 0.11733	1.99e3	50.8	NO
7	7	13C6-PFDA	1701944-10 EB-PT-grundfos 0.11733	6.96e3	66.7	NO
8	8	13C7-PFUDa	1701944-10 EB-PT-grundfos 0.11733	8.31e3	57.6	NO

Name: 180115M2_32, Date: 16-Jan-2018, Time: 06:09:30, ID: 1701944-11 GW-PT-CHIN-170-176 0.11561, Description: GW-PT-CHIN-170-176

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-11 GW-PT-CHIN-170-176 0.11...	7.24e3	49.3	YES
2	2	13C5-PFHxA	1701944-11 GW-PT-CHIN-170-176 0.11...	8.31e3	51.4	NO
3	3	13C3-PFHxS	1701944-11 GW-PT-CHIN-170-176 0.11...	2.21e3	55.5	NO
4	4	13C8-PFOA	1701944-11 GW-PT-CHIN-170-176 0.11...	8.17e3	53.3	NO
5	5	13C9-PFNA	1701944-11 GW-PT-CHIN-170-176 0.11...	7.85e3	47.0	YES
6	6	13C4-PFOS	1701944-11 GW-PT-CHIN-170-176 0.11...	2.17e3	55.4	NO
7	7	13C6-PFDA	1701944-11 GW-PT-CHIN-170-176 0.11...	6.49e3	62.2	NO
8	8	13C7-PFUDa	1701944-11 GW-PT-CHIN-170-176 0.11...	8.57e3	59.4	NO

Name: 180115M2_33, Date: 16-Jan-2018, Time: 06:20:58, ID: 1701944-12 GW-PT-CHIN-271.5-277.5 0.11931, Description: GW-PT-CHIN-271.5-277.5

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	7.19e3	48.9	YES
2	2	13C5-PFHxA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	8.78e3	54.3	NO
3	3	13C3-PFHxS	1701944-12 GW-PT-CHIN-271.5-277.5 ...	2.01e3	50.4	NO
4	4	13C8-PFOA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	7.80e3	50.8	NO
5	5	13C9-PFNA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	6.71e3	40.2	YES
6	6	13C4-PFOS	1701944-12 GW-PT-CHIN-271.5-277.5 ...	2.40e3	61.2	NO
7	7	13C6-PFDA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	5.62e3	53.9	NO
8	8	13C7-PFUDa	1701944-12 GW-PT-CHIN-271.5-277.5 ...	9.57e3	66.3	NO

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Name: 180115M2_34, Date: 16-Jan-2018, Time: 06:32:24, ID: 1701944-13 EB-PT-Packers 0.11813, Description: EB-PT-Packers

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-13 EB-PT-Packers 0.11813	7.34e3	49.9	NO
2	2	13C5-PFHxA	1701944-13 EB-PT-Packers 0.11813	8.26e3	51.1	NO
3	3	13C3-PFHxS	1701944-13 EB-PT-Packers 0.11813	2.05e3	51.3	NO
4	4	13C8-PFOA	1701944-13 EB-PT-Packers 0.11813	7.73e3	50.4	NO
5	5	13C9-PFNA	1701944-13 EB-PT-Packers 0.11813	7.71e3	46.2	YES
6	6	13C4-PFOS	1701944-13 EB-PT-Packers 0.11813	2.31e3	59.0	NO
7	7	13C6-PFDA	1701944-13 EB-PT-Packers 0.11813	5.98e3	57.3	NO
8	8	13C7-PFUDa	1701944-13 EB-PT-Packers 0.11813	8.92e3	61.8	NO

Name: 180115M2_35, Date: 16-Jan-2018, Time: 06:43:51, ID: B7L0120-BS1 OPR 0.25, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7L0120-BS1 OPR 0.25	7.98e3	54.3	NO
2	2	13C5-PFHxA	B7L0120-BS1 OPR 0.25	9.24e3	57.2	NO
3	3	13C3-PFHxS	B7L0120-BS1 OPR 0.25	2.10e3	52.5	NO
4	4	13C8-PFOA	B7L0120-BS1 OPR 0.25	7.88e3	51.3	NO
5	5	13C9-PFNA	B7L0120-BS1 OPR 0.25	9.11e3	54.6	NO
6	6	13C4-PFOS	B7L0120-BS1 OPR 0.25	2.47e3	63.1	NO
7	7	13C6-PFDA	B7L0120-BS1 OPR 0.25	5.96e3	57.1	NO
8	8	13C7-PFUDa	B7L0120-BS1 OPR 0.25	8.95e3	62.0	NO

Name: 180115M2_36, Date: 16-Jan-2018, Time: 06:55:18, ID: B7L0120-BSD1 LCSD 0.25, Description: LCSD

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7L0120-BSD1 LCSD 0.25	8.49e3	57.7	NO
2	2	13C5-PFHxA	B7L0120-BSD1 LCSD 0.25	9.21e3	57.0	NO
3	3	13C3-PFHxS	B7L0120-BSD1 LCSD 0.25	2.35e3	58.8	NO
4	4	13C8-PFOA	B7L0120-BSD1 LCSD 0.25	7.90e3	51.5	NO
5	5	13C9-PFNA	B7L0120-BSD1 LCSD 0.25	1.10e4	65.8	NO
6	6	13C4-PFOS	B7L0120-BSD1 LCSD 0.25	2.66e3	67.8	NO
7	7	13C6-PFDA	B7L0120-BSD1 LCSD 0.25	6.14e3	58.9	NO
8	8	13C7-PFUDa	B7L0120-BSD1 LCSD 0.25	9.78e3	67.8	NO

Name: 180115M2_37, Date: 16-Jan-2018, Time: 07:06:45, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA			NO
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUDa	IPA	5.88e0	0.0	YES

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Name: 180115M2_38, Date: 16-Jan-2018, Time: 07:18:12, ID: B7L0120-BLK1 Method Blank 0.25, Description: Method Blank

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7L0120-BLK1 Method Blank 0.25	6.75e3	45.9	YES
2	2	13C5-PFHxA	B7L0120-BLK1 Method Blank 0.25	7.28e3	45.0	YES
3	3	13C3-PFHxS	B7L0120-BLK1 Method Blank 0.25	2.26e3	56.7	NO
4	4	13C8-PFOA	B7L0120-BLK1 Method Blank 0.25	6.70e3	43.7	YES
5	5	13C9-PFNA	B7L0120-BLK1 Method Blank 0.25	6.41e3	38.4	YES
6	6	13C4-PFOS	B7L0120-BLK1 Method Blank 0.25	1.74e3	44.3	YES
7	7	13C6-PFDA	B7L0120-BLK1 Method Blank 0.25	5.92e3	56.7	NO
8	8	13C7-PFUdA	B7L0120-BLK1 Method Blank 0.25	7.32e3	50.8	NO

Name: 180115M2_39, Date: 16-Jan-2018, Time: 07:29:39, ID: 1701886-01 YS22-EB01-120417 0.11748, Description: YS22-EB01-120417

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701886-01 YS22-EB01-120417 0.11748	8.55e3	58.2	NO
2	2	13C5-PFHxA	1701886-01 YS22-EB01-120417 0.11748	1.03e4	63.7	NO
3	3	13C3-PFHxS	1701886-01 YS22-EB01-120417 0.11748	2.56e3	64.0	NO
4	4	13C8-PFOA	1701886-01 YS22-EB01-120417 0.11748	9.58e3	62.4	NO
5	5	13C9-PFNA	1701886-01 YS22-EB01-120417 0.11748	9.68e3	58.0	NO
6	6	13C4-PFOS	1701886-01 YS22-EB01-120417 0.11748	2.76e3	70.5	NO
7	7	13C6-PFDA	1701886-01 YS22-EB01-120417 0.11748	8.14e3	78.0	NO
8	8	13C7-PFUdA	1701886-01 YS22-EB01-120417 0.11748	8.53e3	59.1	NO

Name: 180115M2_40, Date: 16-Jan-2018, Time: 07:41:05, ID: 1701886-02 YS22-AQ-120517 0.11801, Description: YS22-AQ-120517

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701886-02 YS22-AQ-120517 0.11801	7.58e3	51.5	NO
2	2	13C5-PFHxA	1701886-02 YS22-AQ-120517 0.11801	8.53e3	52.8	NO
3	3	13C3-PFHxS	1701886-02 YS22-AQ-120517 0.11801	2.28e3	57.2	NO
4	4	13C8-PFOA	1701886-02 YS22-AQ-120517 0.11801	8.41e3	54.8	NO
5	5	13C9-PFNA	1701886-02 YS22-AQ-120517 0.11801	7.46e3	44.7	YES
6	6	13C4-PFOS	1701886-02 YS22-AQ-120517 0.11801	2.08e3	53.1	NO
7	7	13C6-PFDA	1701886-02 YS22-AQ-120517 0.11801	6.28e3	60.2	NO
8	8	13C7-PFUdA	1701886-02 YS22-AQ-120517 0.11801	7.43e3	51.5	NO

Name: 180115M2_41, Date: 16-Jan-2018, Time: 07:52:32, ID: 1701886-03 YS22-GW18-1217 0.11927, Description: YS22-GW18-1217

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701886-03 YS22-GW18-1217 0.11927	7.00e3	47.6	YES
2	2	13C5-PFHxA	1701886-03 YS22-GW18-1217 0.11927	7.86e3	48.6	YES
3	3	13C3-PFHxS	1701886-03 YS22-GW18-1217 0.11927	1.77e3	44.4	YES
4	4	13C8-PFOA	1701886-03 YS22-GW18-1217 0.11927	7.53e3	49.1	YES
5	5	13C9-PFNA	1701886-03 YS22-GW18-1217 0.11927	8.68e3	52.0	NO
6	6	13C4-PFOS	1701886-03 YS22-GW18-1217 0.11927	2.08e3	53.1	NO
7	7	13C6-PFDA	1701886-03 YS22-GW18-1217 0.11927	5.56e3	53.3	NO
8	8	13C7-PFUdA	1701886-03 YS22-GW18-1217 0.11927	7.73e3	53.5	NO

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Name: 180115M2_42, Date: 16-Jan-2018, Time: 08:04:00, ID: IPA, Description: IPA

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			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: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST180115M2-10 PFC CS3 17L2611	1.64e4	111.3	NO
2	2	13C5-PFHxA	ST180115M2-10 PFC CS3 17L2611	1.94e4	120.0	NO
3	3	13C3-PFHxS	ST180115M2-10 PFC CS3 17L2611	4.50e3	112.7	NO
4	4	13C8-PFOA	ST180115M2-10 PFC CS3 17L2611	1.50e4	97.6	NO
5	5	13C9-PFNA	ST180115M2-10 PFC CS3 17L2611	1.69e4	101.2	NO
6	6	13C4-PFOS	ST180115M2-10 PFC CS3 17L2611	3.84e3	98.1	NO
7	7	13C6-PFDA	ST180115M2-10 PFC CS3 17L2611	1.15e4	109.8	NO
8	8	13C7-PFUDa	ST180115M2-10 PFC CS3 17L2611	1.60e4	110.6	NO

Name: 180115M2_44, Date: 16-Jan-2018, Time: 08:26:53, ID: IPA, Description: IPA

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

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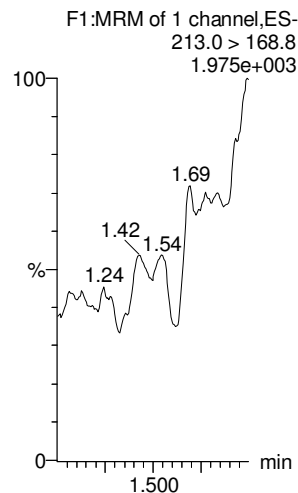
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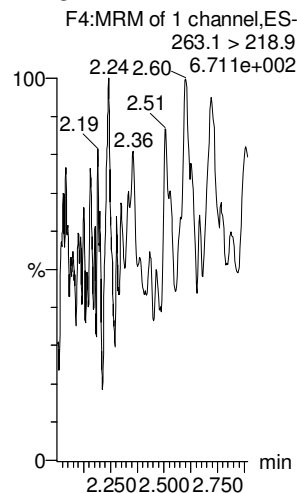
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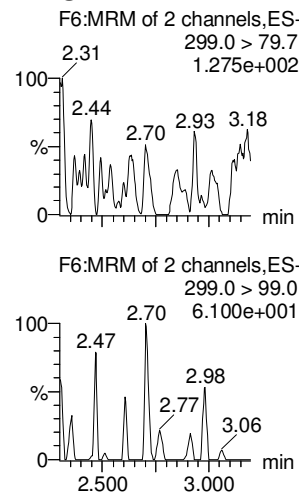
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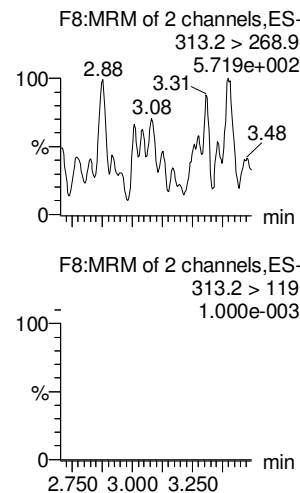
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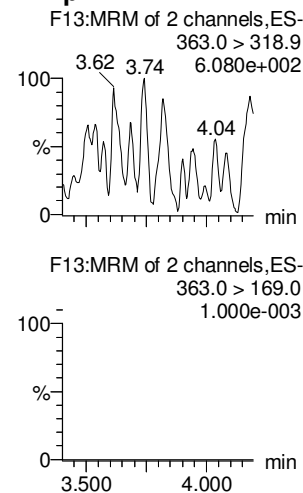
PFBS



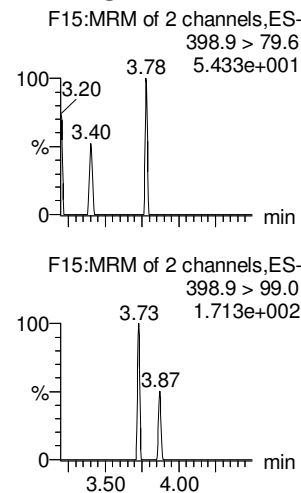
PFHxA



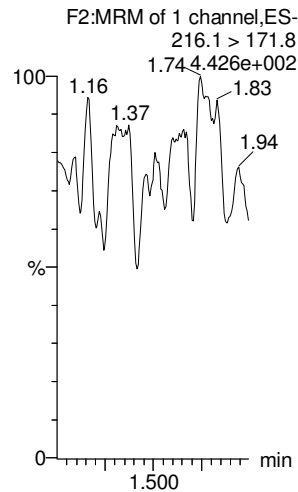
PFHpA



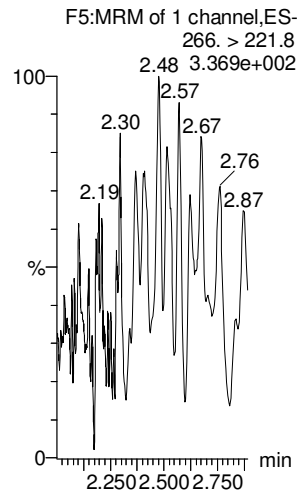
L-PFHxS



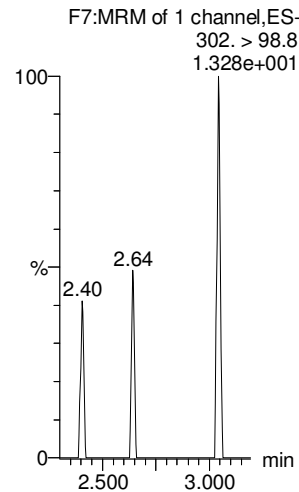
13C3-PFBA



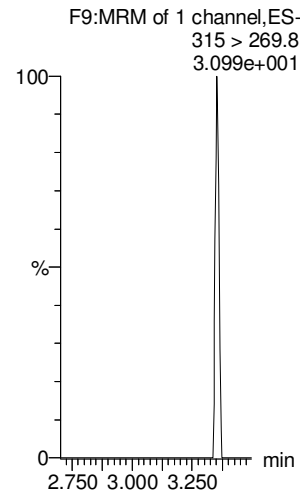
13C3-PFPeA



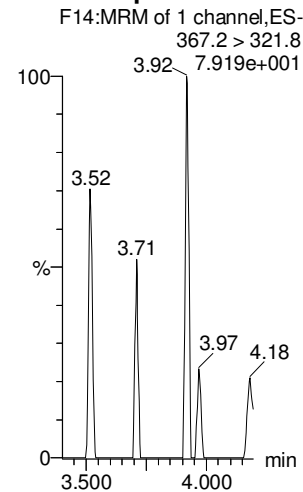
13C3-PFBS



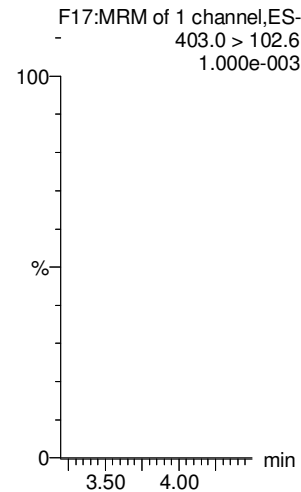
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

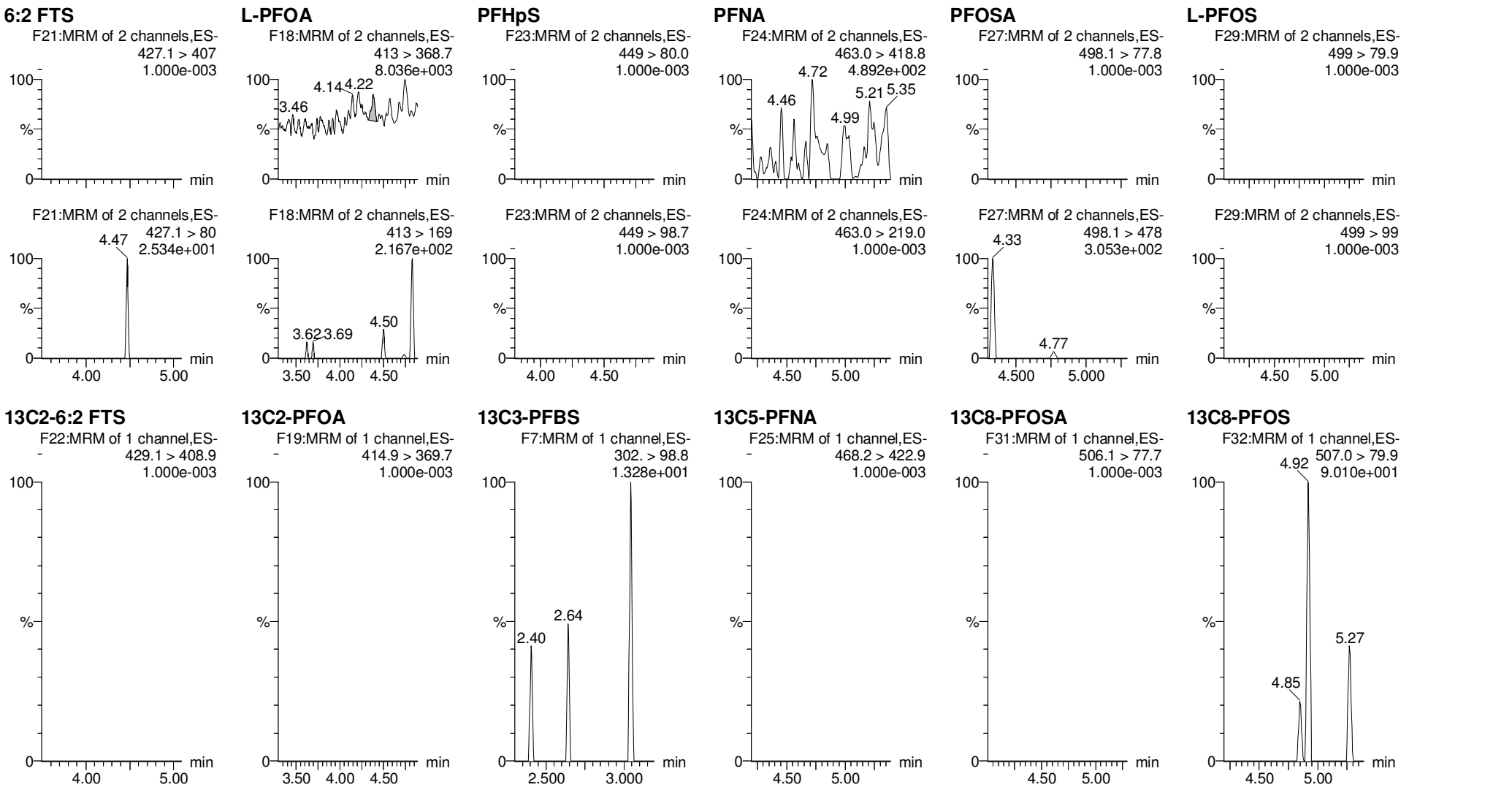


Dataset: U:\Q4.PRO\results\180115M1\180115M1-3.qld

Last Altered: Monday, January 15, 2018 13:35:05 Pacific Standard Time

Printed: Monday, January 15, 2018 13:35:38 Pacific Standard Time

Name: 180115M1_3, Date: 15-Jan-2018, Time: 10:52:47, ID: IPA, Description: IPA



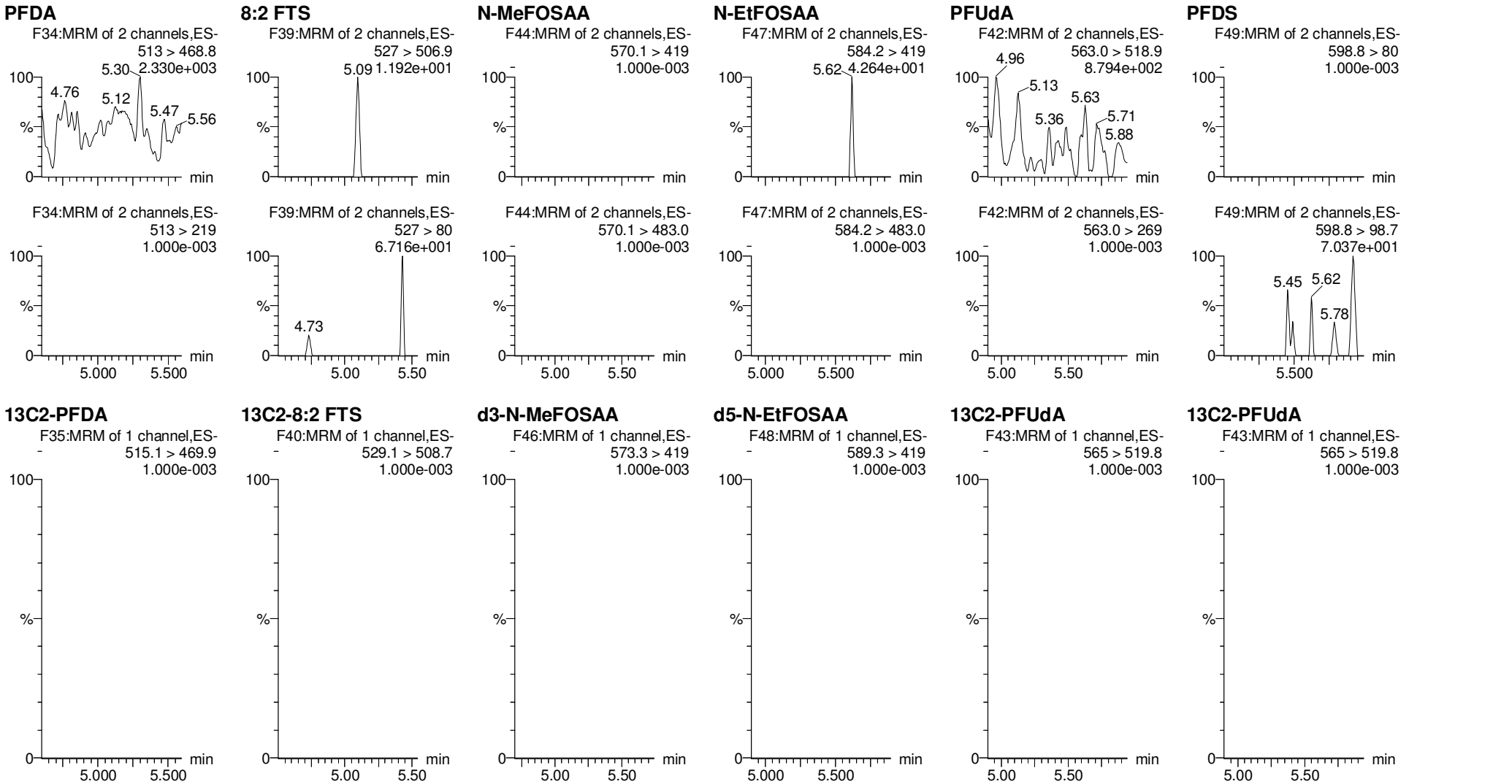
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180115M1\180115M1-3.qld

Last Altered: Monday, January 15, 2018 13:35:05 Pacific Standard Time

Printed: Monday, January 15, 2018 13:35:38 Pacific Standard Time

Name: 180115M1_3, Date: 15-Jan-2018, Time: 10:52:47, ID: IPA, Description: IPA



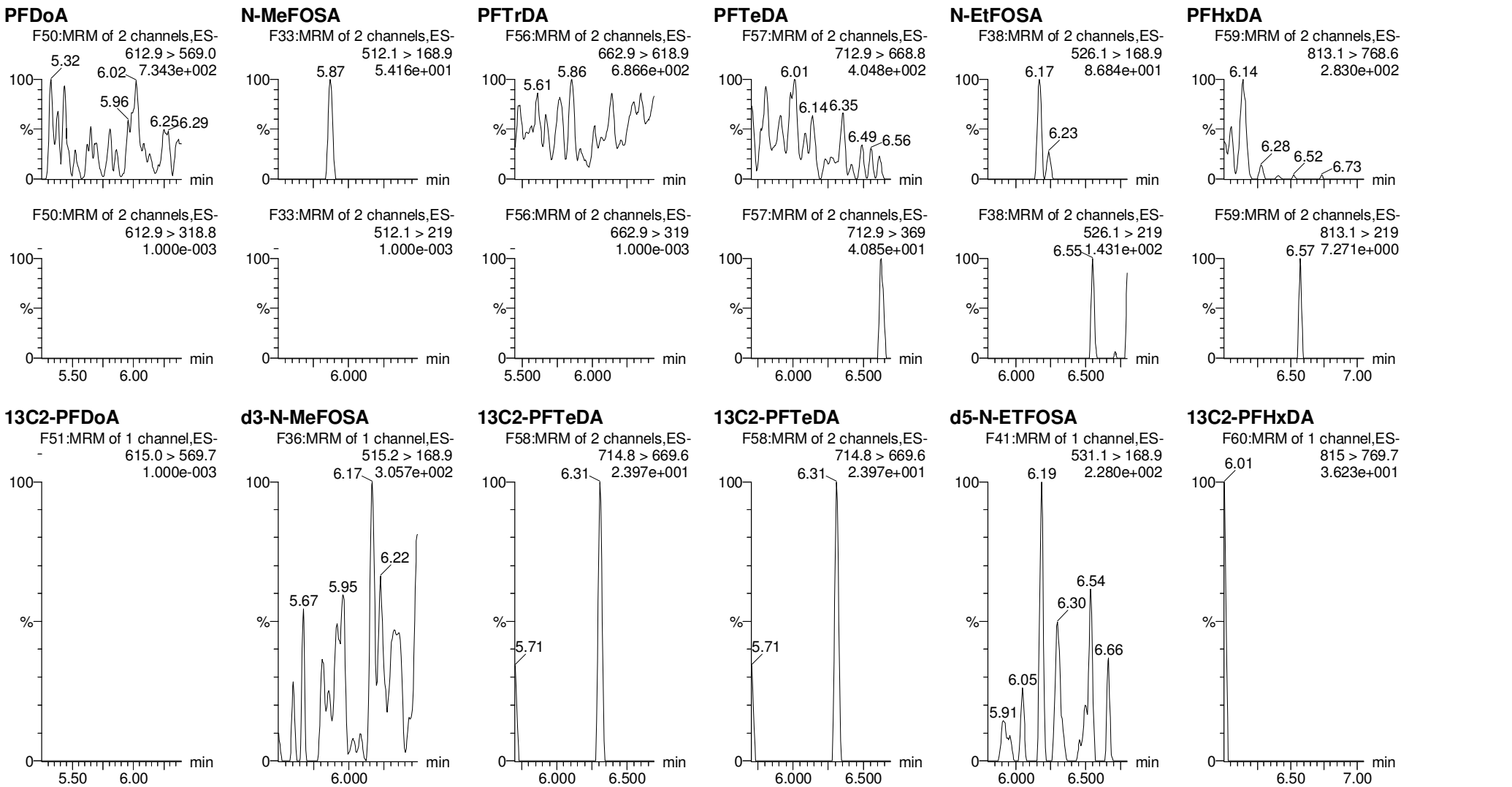
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180115M1\180115M1-3.qld

Last Altered: Monday, January 15, 2018 13:35:05 Pacific Standard Time

Printed: Monday, January 15, 2018 13:35:38 Pacific Standard Time

Name: 180115M1_3, Date: 15-Jan-2018, Time: 10:52:47, ID: IPA, Description: IPA

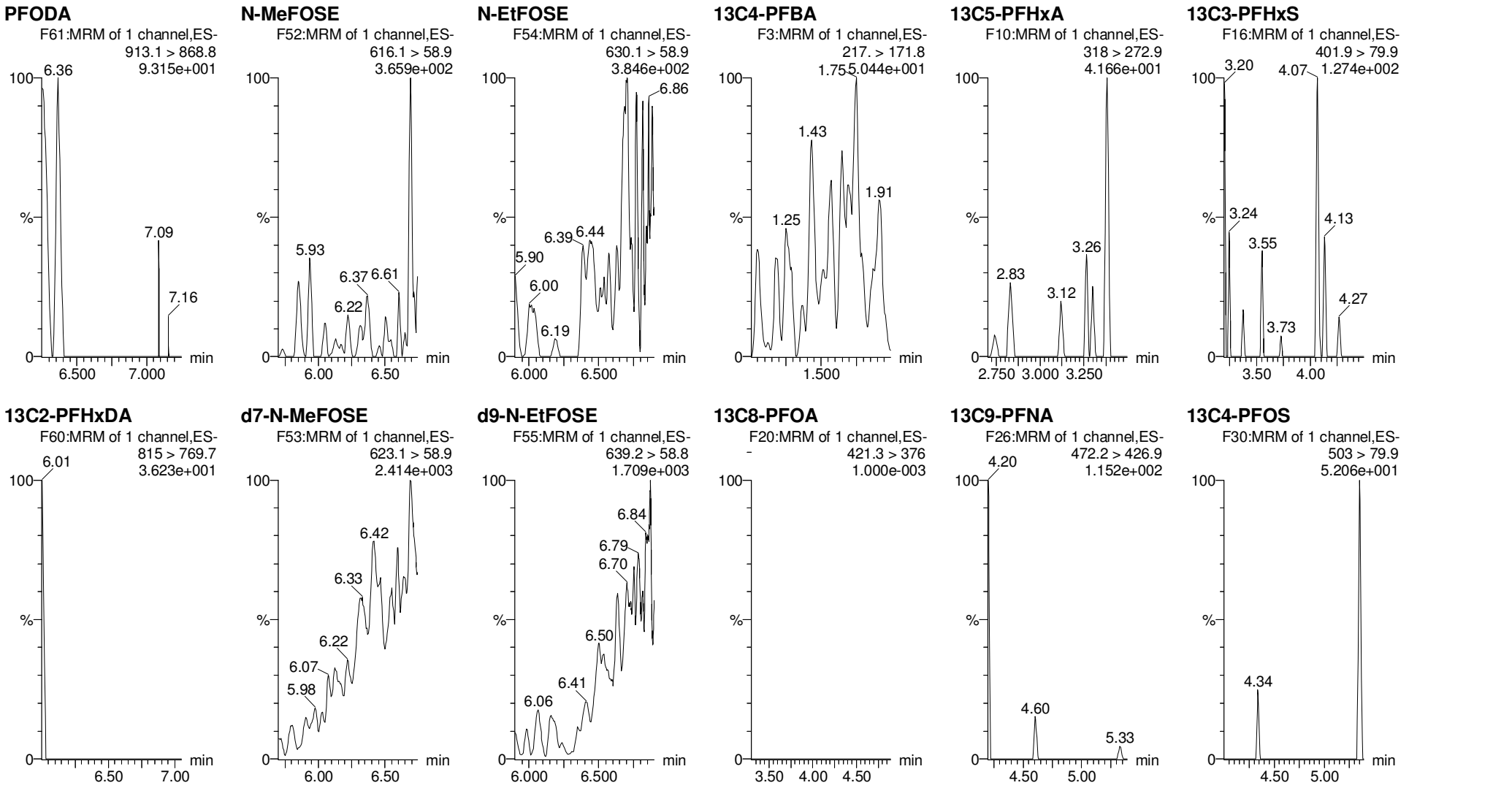


Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180115M1\180115M1-3.qld

Last Altered: Monday, January 15, 2018 13:35:05 Pacific Standard Time
Printed: Monday, January 15, 2018 13:35:38 Pacific Standard Time

Name: 180115M1_3, Date: 15-Jan-2018, Time: 10:52:47, ID: IPA, Description: IPA



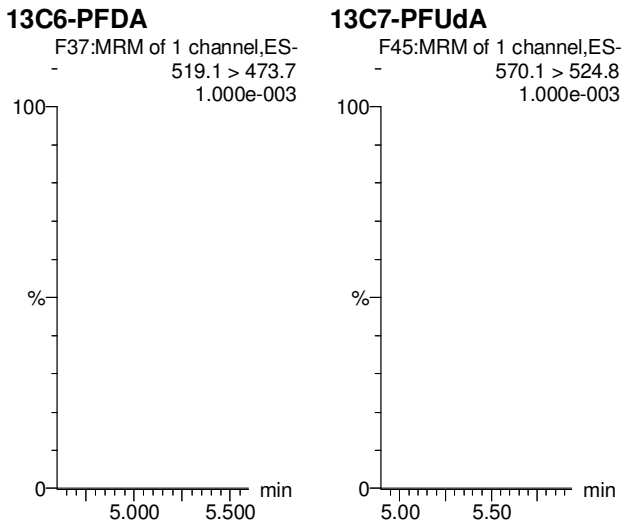
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180115M1\180115M1-3.qld

Last Altered: Monday, January 15, 2018 13:35:05 Pacific Standard Time

Printed: Monday, January 15, 2018 13:35:38 Pacific Standard Time

Name: 180115M1_3, Date: 15-Jan-2018, Time: 10:52:47, ID: IPA, Description: IPA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-26.qld

Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

PFD0A
(A) PFDS > 130%

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

AC
1/16/18

JA
01/16/2018

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.36e4	1.21e4	1.0000		1.64	1.51	14.1	10.538	105.4
2	2 PFPeA	263.1 > 218.9	1.41e4	1.36e4	1.0000		2.60	2.47	13.0	11.239	112.4
3	3 PFBS	299.0 > 79.7	2.88e3	1.63e3	1.0000		2.87	2.74	22.1	11.505	115.0
4	4 PFHxA	313.2 > 268.9	1.64e4	4.24e3	1.0000		3.36	3.23	19.3	10.991	109.9
5	5 PFHpA	363.0 > 318.9	1.32e4	1.05e4	1.0000		4.00	3.85	15.7	10.511	105.1
6	6 L-PFHxS	398.9 > 79.6	2.36e3	1.18e3	1.0000		4.14	4.00	25.0	12.722	127.2
7	8 6:2 FTS	427.1 > 407	2.75e3	1.18e3	1.0000		4.46	4.31	29.1	10.162	101.6
8	9 L-PFOA	413 > 368.7	1.45e4	1.46e4	1.0000		4.50	4.37	12.5	10.804	108.0
9	11 PFHpS	449 > 80.0	3.63e3	1.46e4	1.0000		4.60	4.47	3.12	11.122	111.2
10	12 PFNA	463.0 > 418.8	1.65e4	1.18e4	1.0000		4.94	4.80	17.5	12.785	127.8
11	13 PFOSA	498.1 > 77.8	3.48e3	3.04e3	1.0000		5.00	4.86	14.3	11.905	119.0
12	14 L-PFOS	499 > 79.9	3.60e3	3.32e3	1.0000		5.02	4.88	13.6	12.148	121.5
13	16 PFDA	513 > 468.8	1.46e4	1.18e4	1.0000		5.31	5.17	15.5	10.744	107.4
14	17 8:2 FTS	527 > 506.9	2.71e3	1.18e4	1.0000		5.28	5.14	2.86	11.690	116.9
15	18 N-MeFOSAA	570.1 > 419	9.25e3	5.54e3	1.0000		5.45	5.32	20.9	12.719	127.2
16	19 N-EtFOSAA	584.2 > 419	6.27e3	5.85e3	1.0000		5.60	5.47	13.4	10.367	103.7
17	20 PFUDa	563.0 > 518.9	1.68e4	1.45e4	1.0000		5.62	5.49	14.4	11.421	114.2
18	21 PFDS	598.8 > 80	4.25e3	1.45e4	1.0000		5.67	5.53	3.65	10.812	108.1
19	22 PFD0A	612.9 > 569.0	1.65e4	1.04e4	1.0000		5.91	5.77	19.8	13.619	136.2
20	23 N-MeFOSA	512.1 > 168.9	9.60e3	2.38e4	1.0000		5.87	5.84	60.6	54.246	108.5
21	24 PFTrDA	662.9 > 618.9	2.08e4	1.04e4	1.0000		6.15	6.01	25.1	11.741	117.4
22	25 PFTeDA	712.9 > 668.8	1.53e4	5.64e3	1.0000		6.35	6.22	33.9	10.353	103.5
23	26 N-EtFOSA	526.1 > 168.9	1.30e4	3.45e4	1.0000		6.25	6.20	56.7	56.488	113.0
24	27 PFHxDA	813.1 > 768.6	6.51e3	3.41e3	1.0000		6.64	6.53	9.53	11.697	117.0
25	28 PFODA	913.1 > 868.8	7.22e3	3.41e3	1.0000		6.85	6.75	10.6	11.536	115.4
26	29 N-MeFOSE	616.1 > 58.9	1.38e4	3.32e4	1.0000		6.31	6.30	62.3	53.838	107.7
27	30 N-EtFOSE	630.1 > 58.9	1.67e4	3.42e4	1.0000		6.45	6.45	73.0	59.640	119.3
28	31 13C3-PFBA	216.1 > 171.8	1.21e4	1.55e4	1.0000	0.779	1.64	1.51	9.74	12.496	100.0
29	32 13C3-PFPeA	266. > 221.8	1.36e4	1.78e4	1.0000	0.797	2.60	2.47	9.56	11.993	95.9
30	33 13C3-PFBS	302. > 98.8	1.63e3	1.78e4	1.0000	0.095	2.87	2.74	1.15	12.066	96.5
31	34 13C2-PFHxA	315 > 269.8	4.24e3	1.78e4	1.0000	0.636	3.36	3.23	2.98	4.690	93.8

70-130

50-150

Dataset: U:\Q4.PRO\results\180115M2\180115M2-26.qld

Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 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	1.05e4	1.78e4	1.0000	0.621	4.00	3.85	7.39	11.904	95.2
33	36 18O2-PFHxS	403.0 > 102.6	1.18e3	4.51e3	1.0000	0.336	4.14	4.00	3.27	9.742	77.9
34	37 13C2-6:2 FTS	429.1 > 408.9	3.09e3	1.33e4	1.0000	0.192	4.46	4.31	2.91	15.115	120.9
35	38 13C2-PFOA	414.9 > 369.7	1.46e4	1.33e4	1.0000	1.001	4.50	4.37	13.7	13.692	109.5
36	39 13C5-PFNA	468.2 > 422.9	1.18e4	1.40e4	1.0000	0.811	4.94	4.80	10.5	12.998	104.0
37	40 13C8-PFOSA	506.1 > 77.7	3.04e3	1.63e4	1.0000	0.196	5.00	4.86	2.32	11.824	94.6
38	41 13C8-PFOS	507.0 > 79.9	3.32e3	3.96e3	1.0000	0.862	5.02	4.87	10.5	12.188	97.5
39	42 13C2-PFDA	515.1 > 469.9	1.18e4	1.08e4	1.0000	0.996	5.31	5.17	13.6	13.690	109.5
40	43 13C2-8:2 FTS	529.1 > 508.7	1.70e3	1.78e4	1.0000	0.103	5.28	5.14	1.20	11.640	93.1
41	44 d3-N-MeFOSAA	573.3 > 419	5.54e3	1.63e4	1.0000	0.340	5.45	5.31	4.24	12.466	99.7
42	45 d5-N-EtFOSAA	589.3 > 419	5.85e3	1.63e4	1.0000	0.377	5.60	5.47	4.48	11.877	95.0
43	46 13C2-PFUDa	565 > 519.8	1.45e4	1.63e4	1.0000	0.944	5.62	5.49	11.1	11.780	94.2
44	47 13C2-PFDoA	615.0 > 569.7	1.04e4	1.63e4	1.0000	0.726	5.91	5.77	7.93	10.916	87.3
45	48 d3-N-MeFOSA	515.2 > 168.9	2.38e4	1.63e4	1.0000	0.119	5.87	5.86	18.2	152.924	101.9
46	49 13C2-PFTeDA	714.8 > 669.6	5.64e3	1.63e4	1.0000	0.371	6.35	6.22	4.31	11.607	92.9
47	50 d5-N-ETFOSA	531.1 > 168.9	3.45e4	1.63e4	1.0000	0.174	6.25	6.21	26.4	152.100	101.4
48	51 13C2-PFHxDA	815 > 769.7	3.41e3	1.63e4	1.0000	0.559	6.64	6.53	2.61	4.667	93.3
49	52 d7-N-MeFOSE	623.1 > 58.9	3.32e4	1.63e4	1.0000	0.179	6.31	6.29	25.4	141.415	94.3
50	53 d9-N-EtFOSE	639.2 > 58.8	3.42e4	1.63e4	1.0000	0.160	6.45	6.44	26.2	163.978	109.3
51	54 13C4-PFBA	217. > 171.8	1.55e4	1.55e4	1.0000	1.000	1.64	1.51	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.78e4	1.78e4	1.0000	1.000	3.36	3.24	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.51e3	4.51e3	1.0000	1.000	4.14	4.00	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.33e4	1.33e4	1.0000	1.000	4.50	4.36	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.40e4	1.40e4	1.0000	1.000	4.94	4.80	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.96e3	3.96e3	1.0000	1.000	5.02	4.87	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.08e4	1.08e4	1.0000	1.000	5.31	5.17	12.5	12.500	100.0
58	61 13C7-PFUDa	570.1 > 524.8	1.63e4	1.63e4	1.0000	1.000	5.62	5.49	12.5	12.500	100.0

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Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 13:43:12

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Compound name: PFBA

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1	180115M2_1	ST180115M2-1 PFC CS-2 17L2606	16-Jan-18	00:14:07
2	180115M2_2	ST180115M2-2 PFC CS-1 17L2607	16-Jan-18	00:25:32
3	180115M2_3	ST180115M2-3 PFC CS0 17L2608	16-Jan-18	00:37:02
4	180115M2_4	ST180115M2-4 PFC CS1 17L2609	16-Jan-18	00:48:46
5	180115M2_5	ST180115M2-5 PFC CS2 17L2610	16-Jan-18	01:00:17
6	180115M2_6	ST180115M2-6 PFC CS3 17L2611	16-Jan-18	01:11:44
7	180115M2_7	ST180115M2-7 PFC CS4 17L1208	16-Jan-18	01:23:11
8	180115M2_8	ST180115M2-8 PFC CS5 17L2613	16-Jan-18	01:34:38
9	180115M2_9	IPA	16-Jan-18	01:46:05
10	180115M2_10	ICV180115M2-1 PFC ICV 17L1201	16-Jan-18	01:57:31
11	180115M2_11	IPA	16-Jan-18	02:08:58
12	180115M2_12	1701851-03 FT-PZ-455S-20171202 0.2638	16-Jan-18	02:20:26
13	180115M2_13	1701851-04 FT-PZ-455I-20171202 0.25637	16-Jan-18	02:31:52
14	180115M2_14	1701851-05 FT-PZ-453S-20171202 0.23285	16-Jan-18	02:43:19
15	180115M2_15	1701851-06 FT-PZ-453S-FRB-20171202 0.26...	16-Jan-18	02:54:46
16	180115M2_16	1701851-07 FT-PZ-456I-FRB-20171204 0.2536	16-Jan-18	03:06:13
17	180115M2_17	1701851-08 FT-PZ-456I-20171204 0.26041	16-Jan-18	03:17:39
18	180115M2_18	1701851-09 FT-PZ-456S-20171204 0.25898	16-Jan-18	03:29:06
19	180115M2_19	1701944-01 GW-PT-CHIN-254.5-260.5 0.11993	16-Jan-18	03:40:33
20	180115M2_20	1701944-02 GW-PT-CHIN-71-77 0.11916	16-Jan-18	03:52:00
21	180115M2_21	1701944-03 GW-PT-CHIN-178-184 0.11889	16-Jan-18	04:03:27
22	180115M2_22	1701944-04 GW-PT-CHIN-108-114 0.12008	16-Jan-18	04:14:54
23	180115M2_23	1701944-05 GW-PT-CHIN-57-63 0.11948	16-Jan-18	04:26:21
24	180115M2_24	1701944-06 FB-PT-Diwater 0.11902	16-Jan-18	04:37:48
25	180115M2_25	IPA	16-Jan-18	04:49:15
26	180115M2_26	ST180115M2-9 PFC CS3 17L2611	16-Jan-18	05:00:41
27	180115M2_27	IPA	16-Jan-18	05:12:08
28	180115M2_28	1701944-07 GW-PT-CHIN-254.5-260.5-Dup 0...	16-Jan-18	05:23:43
29	180115M2_29	1701944-08 GW-PT-CHIN-116-122 0.11949	16-Jan-18	05:35:10
30	180115M2_30	1701944-09 EB-PT-Waterlevel 0.10468	16-Jan-18	05:46:37
31	180115M2_31	1701944-10 EB-PT-grundfos 0.11733	16-Jan-18	05:58:04

Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	180115M2_32	1701944-11 GW-PT-CHIN-170-176 0.11561	16-Jan-18	06:09:30
33	180115M2_33	1701944-12 GW-PT-CHIN-271.5-277.5 0.11931	16-Jan-18	06:20:58
34	180115M2_34	1701944-13 EB-PT-Packers 0.11813	16-Jan-18	06:32:24
35	180115M2_35	B7L0120-BS1 OPR 0.25	16-Jan-18	06:43:51
36	180115M2_36	B7L0120-BSD1 LCSD 0.25	16-Jan-18	06:55:18
37	180115M2_37	IPA	16-Jan-18	07:06:45
38	180115M2_38	B7L0120-BLK1 Method Blank 0.25	16-Jan-18	07:18:12
39	180115M2_39	1701886-01 YS22-EB01-120417 0.11748	16-Jan-18	07:29:39
40	180115M2_40	1701886-02 YS22-AQ-120517 0.11801	16-Jan-18	07:41:05
41	180115M2_41	1701886-03 YS22-GW18-1217 0.11927	16-Jan-18	07:52:32
42	180115M2_42	IPA	16-Jan-18	08:04:00
43	180115M2_43	ST180115M2-10 PFC CS3 17L2611	16-Jan-18	08:15:26
44	180115M2_44	IPA	16-Jan-18	08:26:53
45	180115M2_45	B7L0183-BS1 OPR 0.25	16-Jan-18	08:38:20
46	180115M2_46	B7L0183-BSD1 LCSD 0.25	16-Jan-18	08:49:46
47	180115M2_47	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	09:01:13
48	180115M2_48	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	09:12:40
49	180115M2_49	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	09:24:07
50	180115M2_50	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	09:42:12
51	180115M2_51	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	09:53:46
52	180115M2_52	1701953-05 SA-MW127S-FRB-20171213 0.2...	16-Jan-18	10:05:14
53	180115M2_53	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	10:16:50
54	180115M2_54	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	10:28:24
55	180115M2_55	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	10:39:51
56	180115M2_56	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	10:51:18
57	180115M2_57	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	11:02:44
58	180115M2_58	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	11:14:11
59	180115M2_59	IPA	16-Jan-18	11:25:38
60	180115M2_60	ST180115M2-11 PFC CS0 17L2608	16-Jan-18	11:37:05
61	180115M2_61	IPA	16-Jan-18	11:48:32
62	180115M2_62	1701905-03RE1@40X WINF1712061655JLB ...	16-Jan-18	11:59:59
63	180115M2_63	1701852-01@20X IR03-MW034-C2-17D 0.26...	16-Jan-18	12:11:26
64	180115M2_64	1701852-02@20X IR03-MW018B-C1-17D 0.2...	16-Jan-18	12:22:53
65	180115M2_65	1701852-03@40X IR03-MW018A-C2-17D 0.2...	16-Jan-18	12:34:19

Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	180115M2_66	1701852-03@20X IR03-MW018A-C2-17D 0.2...	16-Jan-18	12:45:47
67	180115M2_67	IPA	16-Jan-18	12:57:13
68	180115M2_68	1701852-02 IR03-MW018B-C1-17D 0.25583	16-Jan-18	13:08:40
69	180115M2_69	IPA	16-Jan-18	13:20:07
70	180115M2_70	1701840-05 YS22-GW10-1217 0.11512	16-Jan-18	13:31:34
71	180115M2_71	IPA	16-Jan-18	13:43:01
72	180115M2_72	ST180115M2-12 PFC CS3 17L2611	16-Jan-18	13:54:28

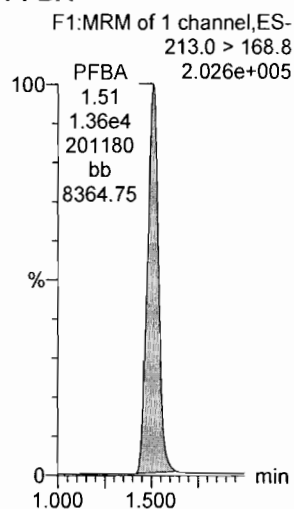
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Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time
 Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

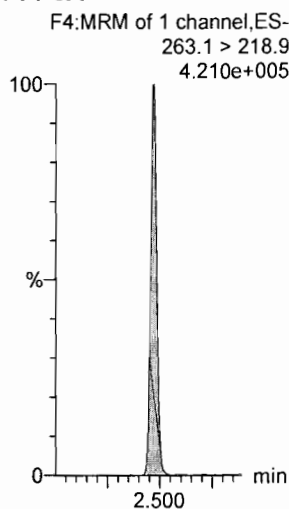
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Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

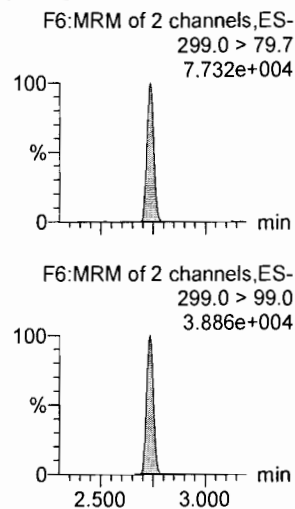
PFBA



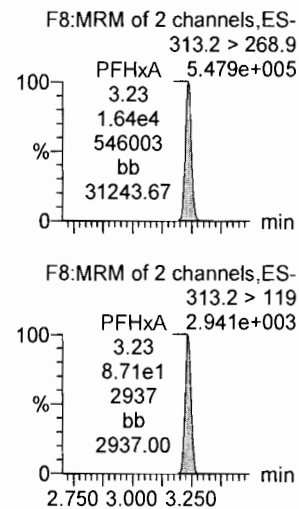
PFPeA



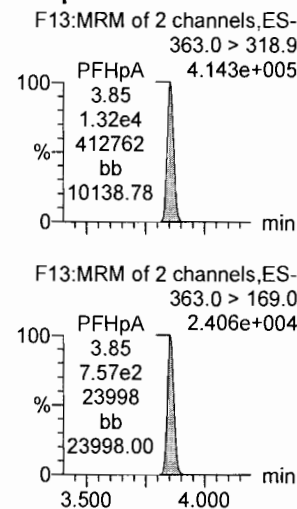
PFBS



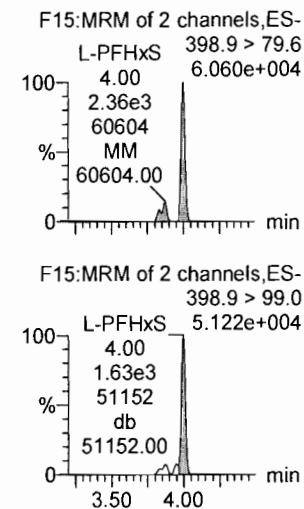
PFHxA



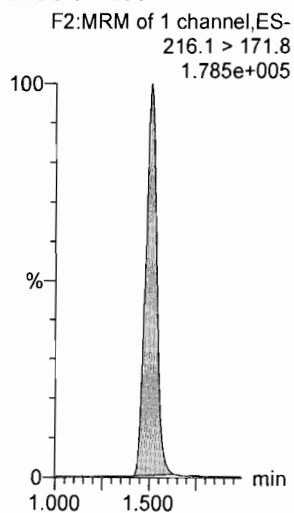
PFHpA



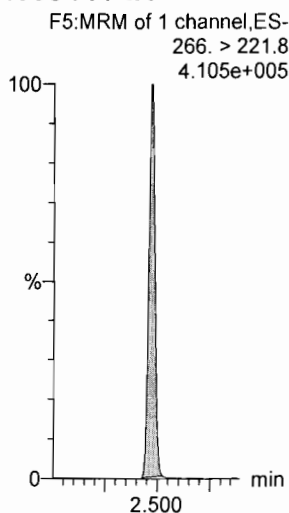
L-PFHxS



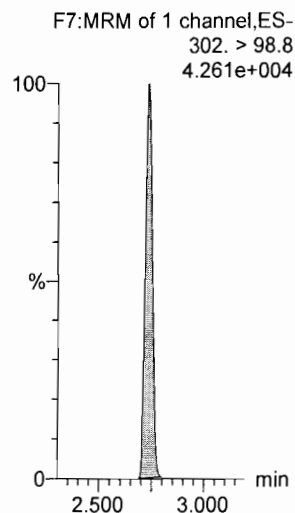
13C3-PFBA



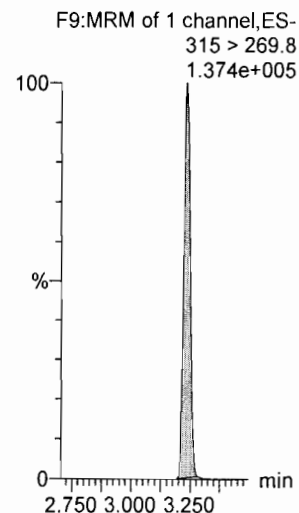
13C3-PFPeA



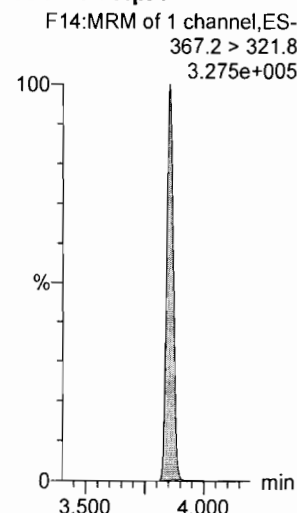
13C3-PFBS



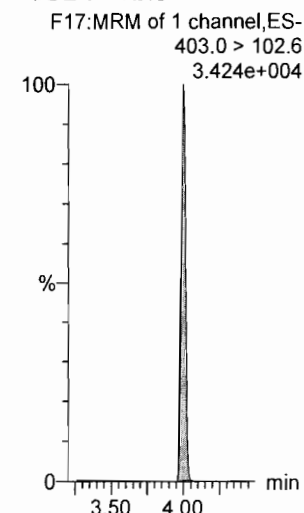
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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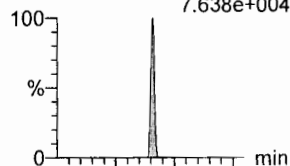
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Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

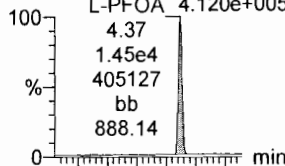
6:2 FTS

F21:MRM of 2 channels,ES-
427.1 > 407
7.638e+004



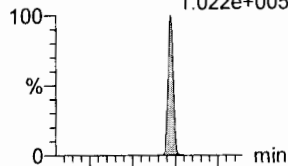
L-PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
4.120e+005



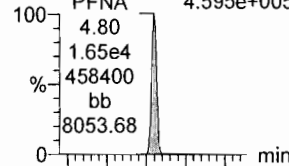
PFHpS

F23:MRM of 2 channels,ES-
449 > 80.0
1.022e+005



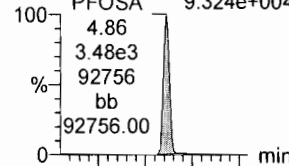
PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
4.595e+005



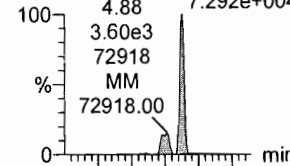
PFOSA

F27:MRM of 2 channels,ES-
498.1 > 77.8
9.324e+004

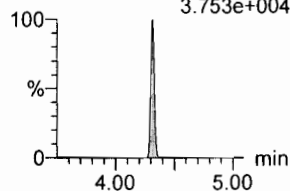


L-PFOS

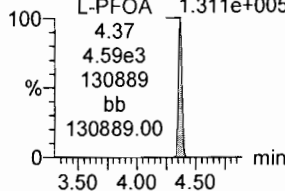
F29:MRM of 2 channels,ES-
499 > 79.9
7.292e+004



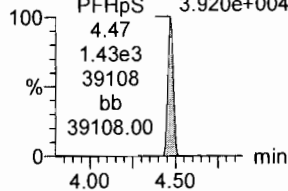
F21:MRM of 2 channels,ES-
427.1 > 80
3.753e+004



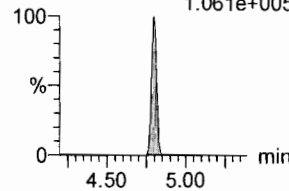
F18:MRM of 2 channels,ES-
413 > 169
1.311e+005



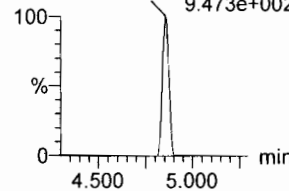
F23:MRM of 2 channels,ES-
449 > 98.7
3.920e+004



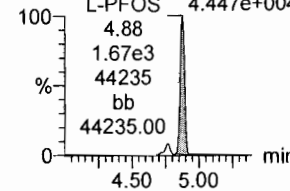
F24:MRM of 2 channels,ES-
463.0 > 219.0
1.061e+005



F27:MRM of 2 channels,ES-
498.1 > 478
9.473e+002

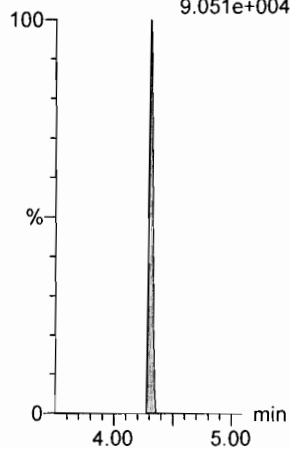


F29:MRM of 2 channels,ES-
499 > 99
4.447e+004



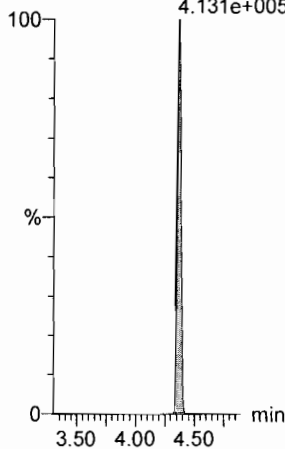
13C2-6:2 FTS

F22:MRM of 1 channel,ES-
429.1 > 408.9
9.051e+004



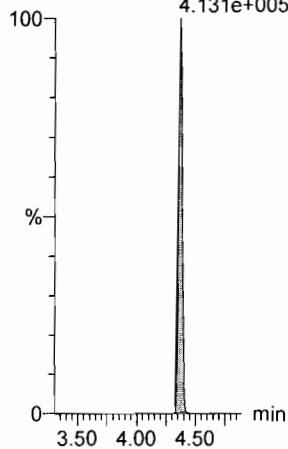
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
4.131e+005



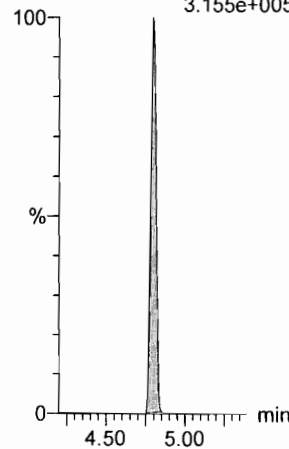
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
4.131e+005



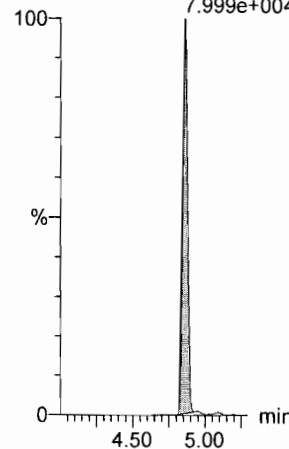
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
3.155e+005



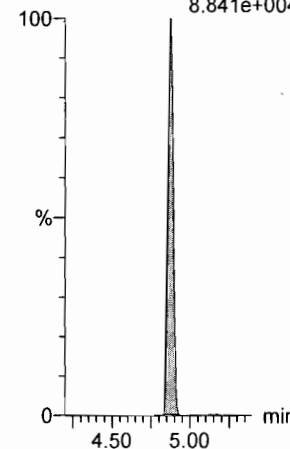
13C8-PFOSA

F31:MRM of 1 channel,ES-
506.1 > 77.7
7.999e+004



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
8.841e+004

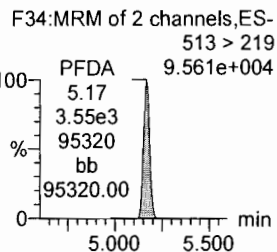
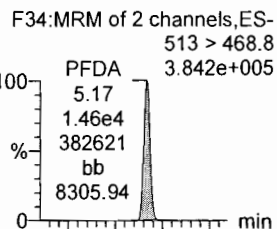


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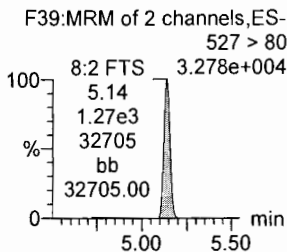
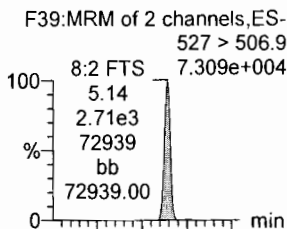
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Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

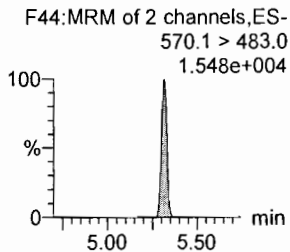
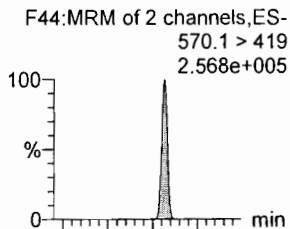
PFDA



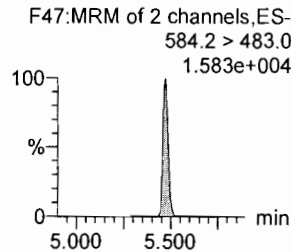
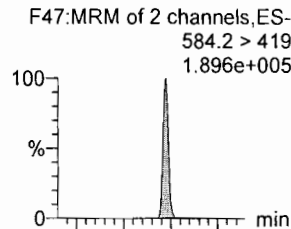
8:2 FTS



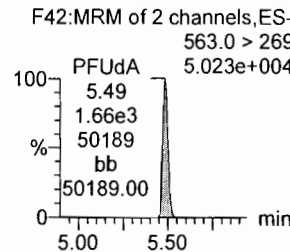
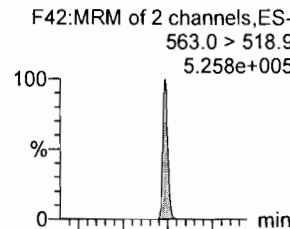
N-MeFOSAA



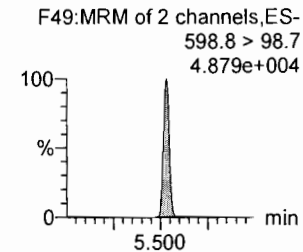
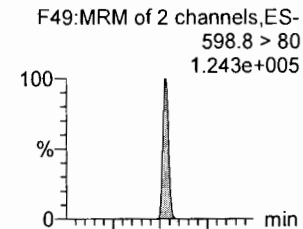
N-EtFOSAA



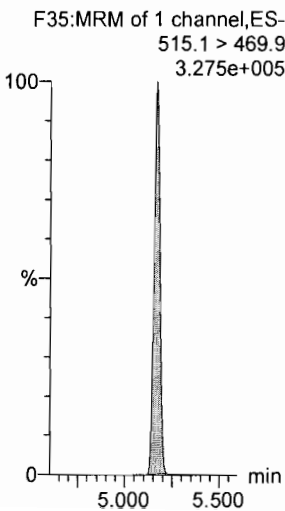
PFUdA



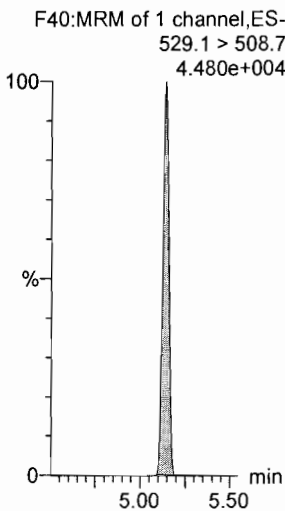
PFDS



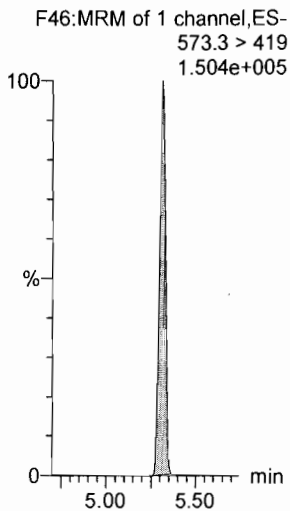
13C2-PFDA



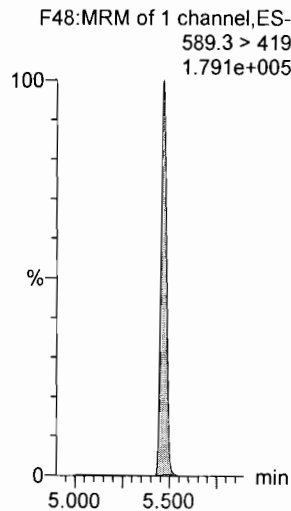
13C2-8:2 FTS



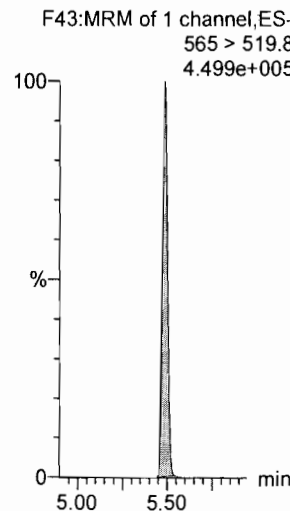
d3-N-MeFOSAA



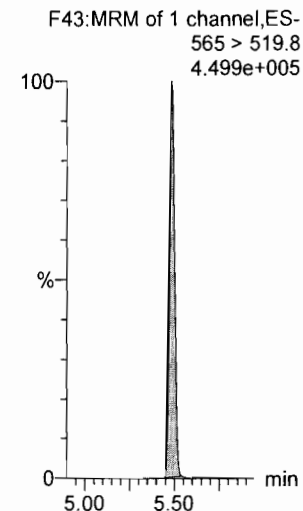
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



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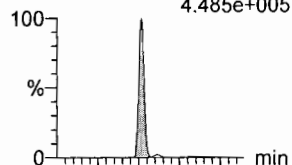
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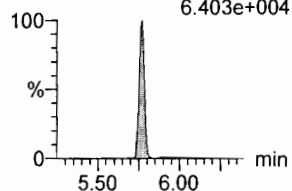
Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

PFDaA

F50:MRM of 2 channels,ES-
 612.9 > 569.0
 4.485e+005

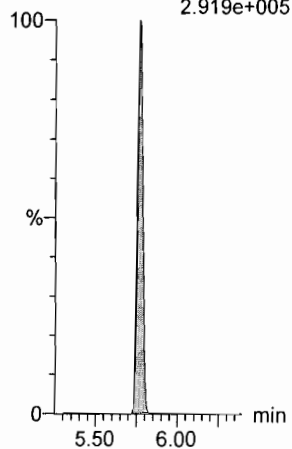


F50:MRM of 2 channels,ES-
 612.9 > 318.8
 6.403e+004



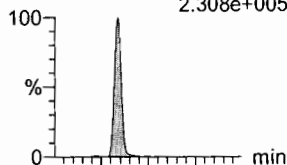
13C2-PFDaA

F51:MRM of 1 channel,ES-
 615.0 > 569.7
 2.919e+005

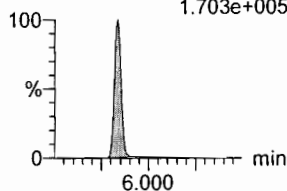


N-MeFOSA

F33:MRM of 2 channels,ES-
 512.1 > 168.9
 2.308e+005

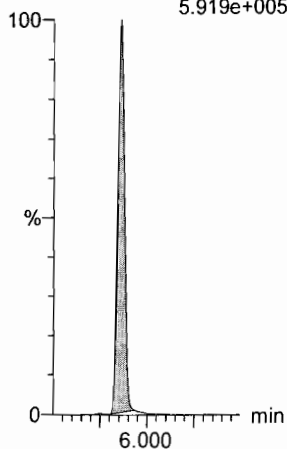


F33:MRM of 2 channels,ES-
 512.1 > 219
 1.703e+005



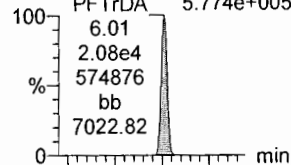
d3-N-MeFOSA

F36:MRM of 1 channel,ES-
 515.2 > 168.9
 5.919e+005

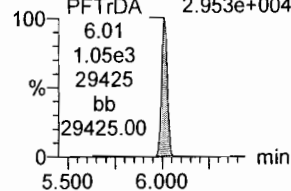


PFTTrDA

F56:MRM of 2 channels,ES-
 662.9 > 618.9
 5.774e+005

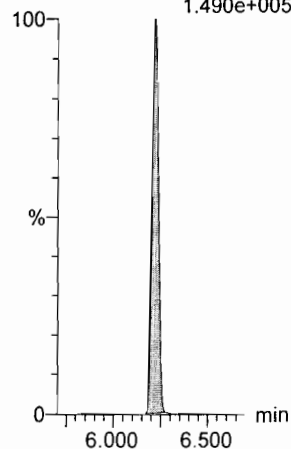


F56:MRM of 2 channels,ES-
 662.9 > 319
 2.953e+004



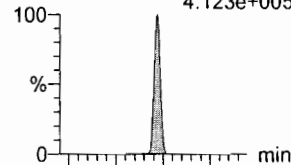
13C2-PFTTeDA

F58:MRM of 2 channels,ES-
 714.8 > 669.6
 1.490e+005

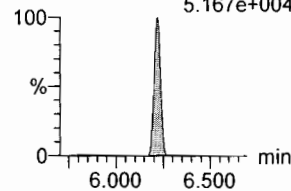


PFTTeDA

F57:MRM of 2 channels,ES-
 712.9 > 668.8
 4.123e+005

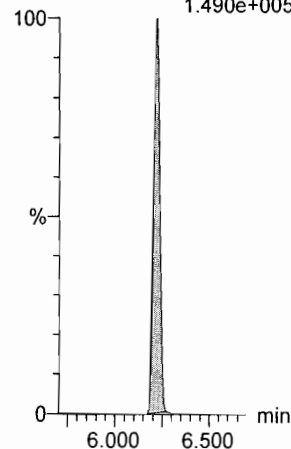


F57:MRM of 2 channels,ES-
 712.9 > 369
 5.167e+004



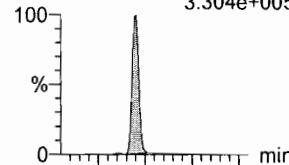
13C2-PFTTeDA

F58:MRM of 2 channels,ES-
 714.8 > 669.6
 1.490e+005

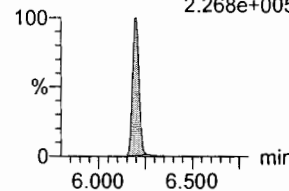


N-EtFOSA

F38:MRM of 2 channels,ES-
 526.1 > 168.9
 3.304e+005

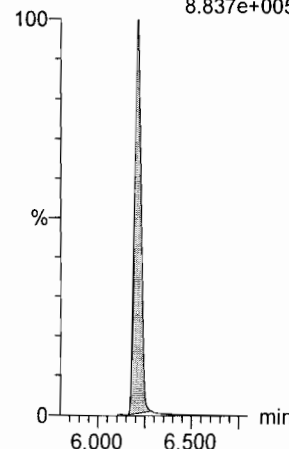


F38:MRM of 2 channels,ES-
 526.1 > 219
 2.268e+005



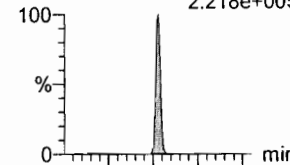
d5-N-ETFOSA

F41:MRM of 1 channel,ES-
 531.1 > 168.9
 8.837e+005

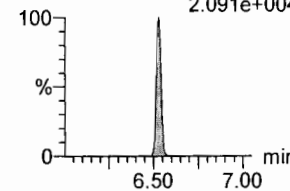


PFHxDA

F59:MRM of 2 channels,ES-
 813.1 > 768.6
 2.218e+005

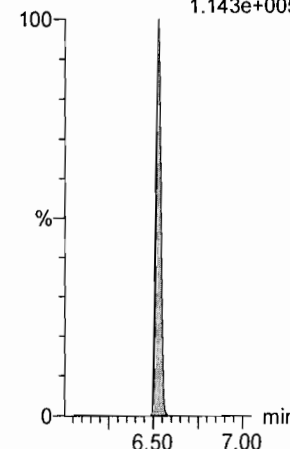


F59:MRM of 2 channels,ES-
 813.1 > 219
 2.091e+004



13C2-PFHxDA

F60:MRM of 1 channel,ES-
 815 > 769.7
 1.143e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-26.qld

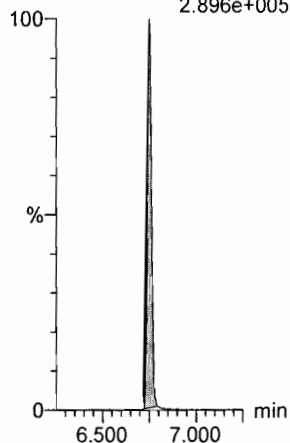
Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

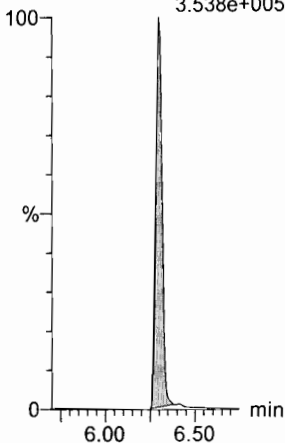
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.896e+005



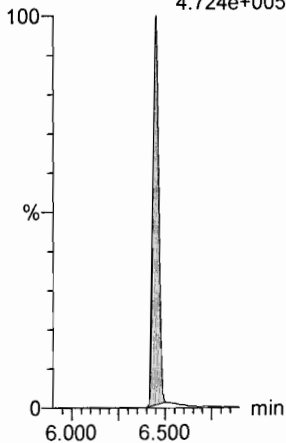
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
3.538e+005



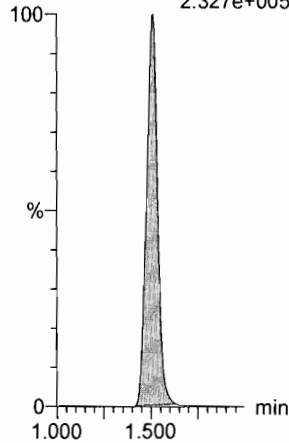
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
4.724e+005



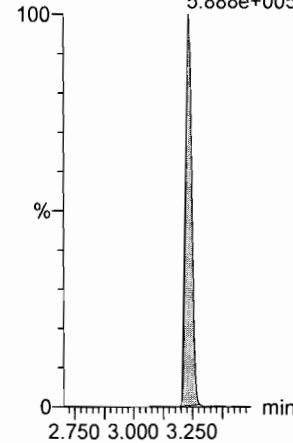
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
2.327e+005



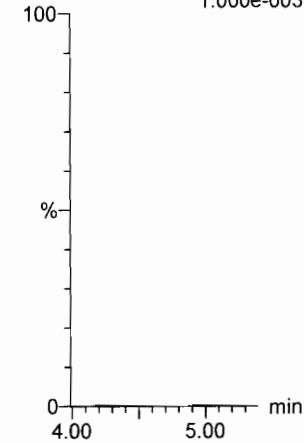
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
5.888e+005



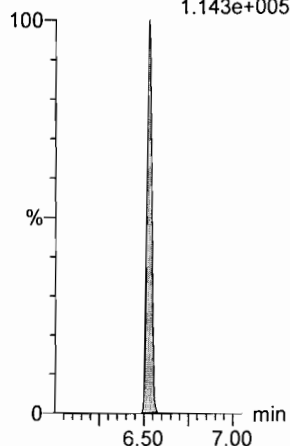
TCDA

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



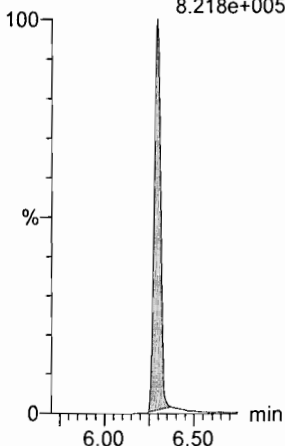
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.143e+005



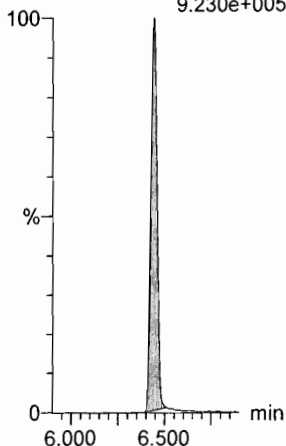
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
8.218e+005



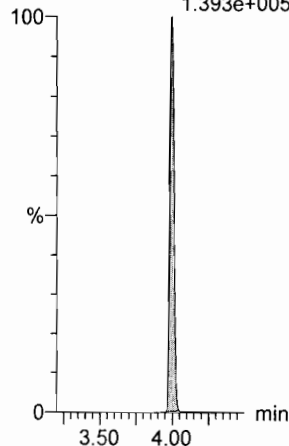
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
9.230e+005



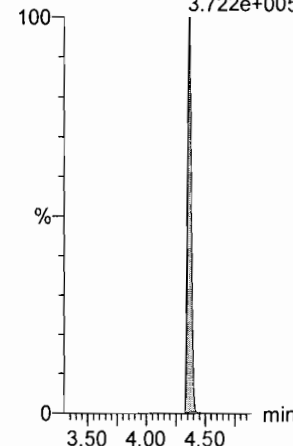
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
1.393e+005



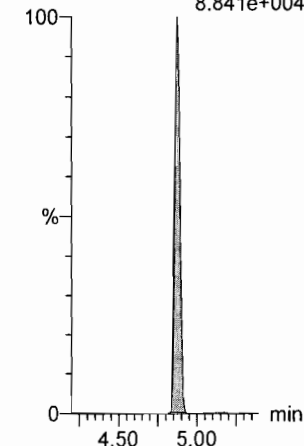
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.722e+005



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
8.841e+004



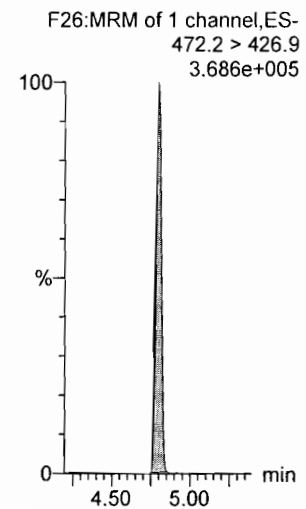
Dataset: U:\Q4.PRO\results\180115M2\180115M2-26.qld

Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time

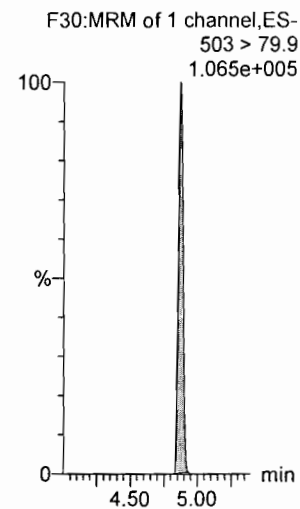
Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

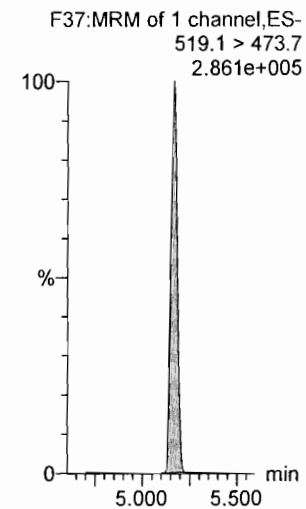
13C9-PFNA



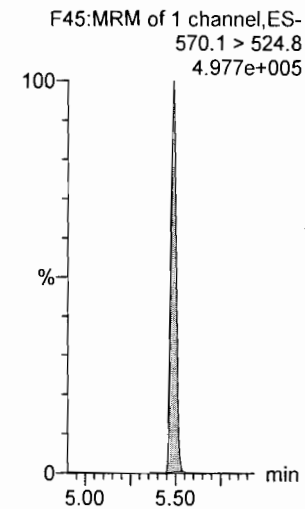
13C4-PFOS



13C6-PFDA



13C7-PFUDa



Dataset: U:\Q4.PRO\results\180115M2\180115M2-43.qld

Last Altered: Tuesday, January 16, 2018 14:39:26 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:39:34 Pacific Standard Time

① PFDoA PFTrDA > 130%

AC 1/16/18

JH.
01/16/2018

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.44e4	1.27e4	1.0000		1.64	1.50	14.2	10.640	106.4
2	2 PFPeA	263.1 > 218.9	1.51e4	1.54e4	1.0000		2.60	2.46	12.3	10.692	106.9
3	3 PFBS	299.0 > 79.7	3.18e3	1.70e3	1.0000		2.87	2.73	23.4	12.181	121.8
4	4 PFHxA	313.2 > 268.9	1.75e4	4.70e3	1.0000		3.36	3.23	18.6	10.593	105.9
5	5 PFHpA	363.0 > 318.9	1.39e4	1.13e4	1.0000		4.00	3.84	15.5	10.378	103.8
6	6 L-PFHxS	398.9 > 79.6	2.36e3	1.31e3	1.0000		4.14	3.99	22.6	11.417	114.2
7	8 6:2 FTS	427.1 > 407	3.19e3	1.31e3	1.0000		4.46	4.31	30.5	10.659	106.6
8	9 L-PFOA	413 > 368.7	1.68e4	1.43e4	1.0000		4.50	4.36	14.7	12.780	127.8
9	11 PFHpS	449 > 80.0	4.06e3	1.43e4	1.0000		4.60	4.46	3.54	12.717	127.2
10	12 PFNA	463.0 > 418.8	1.51e4	1.42e4	1.0000		4.94	4.79	13.3	9.738	97.4
11	13 PFOSA	498.1 > 77.8	3.51e3	3.08e3	1.0000		5.00	4.85	14.2	11.839	118.4
12	14 L-PFOS	499 > 79.9	4.02e3	3.92e3	1.0000		5.02	4.86	12.8	11.506	115.1
13	16 PFDA	513 > 468.8	1.92e4	1.33e4	1.0000		5.31	5.16	18.0	12.485	124.9
14	17 8:2 FTS	527 > 506.9	3.34e3	1.33e4	1.0000		5.28	5.12	3.14	12.973	129.7
15	18 N-MeFOSAA	570.1 > 419	8.87e3	6.29e3	1.0000		5.45	5.31	17.6	10.693	106.9
16	19 N-EiFOSAA	584.2 > 419	7.62e3	7.12e3	1.0000		5.60	5.46	13.4	10.364	103.6
17	20 PFuDA	563.0 > 518.9	1.59e4	1.34e4	1.0000		5.62	5.47	14.9	11.776	117.8
18	21 PFDS	598.8 > 80	4.41e3	1.34e4	1.0000		5.67	5.52	4.12	12.236	122.4
19	22 PFDoA	612.9 > 569.0	1.61e4	9.41e3	1.0000		5.91	5.76	21.4	14.664	146.6
20	23 N-MeFOSA	512.1 > 168.9	1.01e4	2.57e4	1.0000		5.87	5.84	59.2	52.995	106.0
21	24 PFTrDA	662.9 > 618.9	2.42e4	9.41e3	1.0000		6.15	6.00	32.2	15.049	150.5
22	25 PFTeDA	712.9 > 668.8	1.31e4	5.42e3	1.0000		6.35	6.20	30.2	9.167	91.7
23	26 N-EiFOSA	526.1 > 168.9	1.35e4	3.68e4	1.0000		6.25	6.20	55.2	55.005	110.0
24	27 PFHxDA	813.1 > 768.6	6.45e3	3.45e3	1.0000		6.64	6.52	9.35	11.465	114.6
25	28 PFODA	913.1 > 868.8	6.89e3	3.45e3	1.0000		6.85	6.74	9.98	10.877	108.8
26	29 N-MeFOSE	616.1 > 58.9	1.33e4	3.74e4	1.0000		6.31	6.30	53.6	46.224	92.4
27	30 N-EiFOSE	630.1 > 58.9	1.91e4	3.82e4	1.0000		6.45	6.45	74.8	61.057	122.1
28	31 13C3-PFBA	216.1 > 171.8	1.27e4	1.64e4	1.0000	0.779	1.64	1.49	9.68	12.428	99.4
29	32 13C3-PFPeA	266. > 221.8	1.54e4	1.94e4	1.0000	0.797	2.60	2.46	9.91	12.435	99.5
30	33 13C3-PFBS	302. > 98.8	1.70e3	1.94e4	1.0000	0.095	2.87	2.72	1.09	11.516	92.1
31	34 13C2-PFHxA	315 > 269.8	4.70e3	1.94e4	1.0000	0.636	3.36	3.23	3.03	4.760	95.2

70-130

50-150

Dataset: U:\Q4.PRO\results\180115M2\180115M2-43.qld

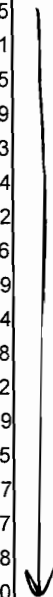
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Printed: Tuesday, January 16, 2018 14:39:34 Pacific Standard Time

Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 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	1.13e4	1.94e4	1.0000	0.621	4.00	3.84	7.26	11.698	93.6
33	36 18O2-PFHxS	403.0 > 102.6	1.31e3	4.50e3	1.0000	0.336	4.14	3.99	3.63	10.814	86.5
34	37 13C2-6:2 FTS	429.1 > 408.9	2.97e3	1.50e4	1.0000	0.192	4.46	4.30	2.48	12.885	103.1
35	38 13C2-PFOA	414.9 > 369.7	1.43e4	1.50e4	1.0000	1.001	4.50	4.36	12.0	11.940	95.5
36	39 13C5-PFNA	468.2 > 422.9	1.42e4	1.69e4	1.0000	0.811	4.94	4.79	10.5	12.993	103.9
37	40 13C8-PFOSA	506.1 > 77.7	3.08e3	1.60e4	1.0000	0.196	5.00	4.85	2.41	12.288	98.3
38	41 13C8-PFOS	507.0 > 79.9	3.92e3	3.84e3	1.0000	0.862	5.02	4.86	12.8	14.802	118.4
39	42 13C2-PFDA	515.1 > 469.9	1.33e4	1.14e4	1.0000	0.996	5.31	5.16	14.6	14.646	117.2
40	43 13C2-8:2 FTS	529.1 > 508.7	2.03e3	1.94e4	1.0000	0.103	5.28	5.12	1.31	12.697	101.6
41	44 d3-N-MeFOSAA	573.3 > 419	6.29e3	1.60e4	1.0000	0.340	5.45	5.30	4.93	14.490	115.9
42	45 d5-N-EtFOSAA	589.3 > 419	7.12e3	1.60e4	1.0000	0.377	5.60	5.45	5.58	14.803	118.4
43	46 13C2-PFUdA	565 > 519.8	1.34e4	1.60e4	1.0000	0.944	5.62	5.47	10.5	11.106	88.8
44	47 13C2-PFDoA	615.0 > 569.7	9.41e3	1.60e4	1.0000	0.726	5.91	5.76	7.37	10.153	81.2
45	48 d3-N-MeFOSA	515.2 > 168.9	2.57e4	1.60e4	1.0000	0.119	5.87	5.86	20.1	169.324	112.9
46	49 13C2-PFTeDA	714.8 > 669.6	5.42e3	1.60e4	1.0000	0.371	6.35	6.20	4.25	11.434	91.5
47	50 d5-N-ETFOSA	531.1 > 168.9	3.68e4	1.60e4	1.0000	0.174	6.25	6.21	28.8	166.114	110.7
48	51 13C2-PFHxDA	815 > 769.7	3.45e3	1.60e4	1.0000	0.559	6.64	6.52	2.70	4.835	96.7
49	52 d7-N-MeFOSE	623.1 > 58.9	3.74e4	1.60e4	1.0000	0.179	6.31	6.29	29.3	163.157	108.8
50	53 d9-N-EtFOSE	639.2 > 58.8	3.82e4	1.60e4	1.0000	0.160	6.45	6.44	29.9	187.541	125.0
51	54 13C4-PFBA	217. > 171.8	1.64e4	1.64e4	1.0000	1.000	1.64	1.49	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.94e4	1.94e4	1.0000	1.000	3.36	3.22	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.50e3	4.50e3	1.0000	1.000	4.14	3.99	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.50e4	1.50e4	1.0000	1.000	4.50	4.36	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.69e4	1.69e4	1.0000	1.000	4.94	4.78	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.84e3	3.84e3	1.0000	1.000	5.02	4.86	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.14e4	1.14e4	1.0000	1.000	5.31	5.16	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.60e4	1.60e4	1.0000	1.000	5.62	5.47	12.5	12.500	100.0

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Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 13:43:12

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180115M2_1	ST180115M2-1 PFC CS-2 17L2606	16-Jan-18	00:14:07
2	180115M2_2	ST180115M2-2 PFC CS-1 17L2607	16-Jan-18	00:25:32
3	180115M2_3	ST180115M2-3 PFC CS0 17L2608	16-Jan-18	00:37:02
4	180115M2_4	ST180115M2-4 PFC CS1 17L2609	16-Jan-18	00:48:46
5	180115M2_5	ST180115M2-5 PFC CS2 17L2610	16-Jan-18	01:00:17
6	180115M2_6	ST180115M2-6 PFC CS3 17L2611	16-Jan-18	01:11:44
7	180115M2_7	ST180115M2-7 PFC CS4 17L1208	16-Jan-18	01:23:11
8	180115M2_8	ST180115M2-8 PFC CS5 17L2613	16-Jan-18	01:34:38
9	180115M2_9	IPA	16-Jan-18	01:46:05
10	180115M2_10	ICV180115M2-1 PFC ICV 17L1201	16-Jan-18	01:57:31
11	180115M2_11	IPA	16-Jan-18	02:08:58
12	180115M2_12	1701851-03 FT-PZ-455S-20171202 0.2638	16-Jan-18	02:20:26
13	180115M2_13	1701851-04 FT-PZ-455I-20171202 0.25637	16-Jan-18	02:31:52
14	180115M2_14	1701851-05 FT-PZ-453S-20171202 0.23285	16-Jan-18	02:43:19
15	180115M2_15	1701851-06 FT-PZ-453S-FRB-20171202 0.26...	16-Jan-18	02:54:46
16	180115M2_16	1701851-07 FT-PZ-456I-FRB-20171204 0.2536	16-Jan-18	03:06:13
17	180115M2_17	1701851-08 FT-PZ-456I-20171204 0.26041	16-Jan-18	03:17:39
18	180115M2_18	1701851-09 FT-PZ-456S-20171204 0.25898	16-Jan-18	03:29:06
19	180115M2_19	1701944-01 GW-PT-CHIN-254.5-260.5 0.11993	16-Jan-18	03:40:33
20	180115M2_20	1701944-02 GW-PT-CHIN-71-77 0.11916	16-Jan-18	03:52:00
21	180115M2_21	1701944-03 GW-PT-CHIN-178-184 0.11889	16-Jan-18	04:03:27
22	180115M2_22	1701944-04 GW-PT-CHIN-108-114 0.12008	16-Jan-18	04:14:54
23	180115M2_23	1701944-05 GW-PT-CHIN-57-63 0.11948	16-Jan-18	04:26:21
24	180115M2_24	1701944-06 FB-PT-Diwater 0.11902	16-Jan-18	04:37:48
25	180115M2_25	IPA	16-Jan-18	04:49:15
26	180115M2_26	ST180115M2-9 PFC CS3 17L2611	16-Jan-18	05:00:41
27	180115M2_27	IPA	16-Jan-18	05:12:08
28	180115M2_28	1701944-07 GW-PT-CHIN-254.5-260.5-Dup 0...	16-Jan-18	05:23:43
29	180115M2_29	1701944-08 GW-PT-CHIN-116-122 0.11949	16-Jan-18	05:35:10
30	180115M2_30	1701944-09 EB-PT-Waterlevel 0.10468	16-Jan-18	05:46:37
31	180115M2_31	1701944-10 EB-PT-grundfos 0.11733	16-Jan-18	05:58:04

Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	180115M2_32	1701944-11 GW-PT-CHIN-170-176 0.11561	16-Jan-18	06:09:30
33	180115M2_33	1701944-12 GW-PT-CHIN-271.5-277.5 0.11931	16-Jan-18	06:20:58
34	180115M2_34	1701944-13 EB-PT-Packers 0.11813	16-Jan-18	06:32:24
35	180115M2_35	B7L0120-BS1 OPR 0.25	16-Jan-18	06:43:51
36	180115M2_36	B7L0120-BSD1 LCSD 0.25	16-Jan-18	06:55:18
37	180115M2_37	IPA	16-Jan-18	07:06:45
38	180115M2_38	B7L0120-BLK1 Method Blank 0.25	16-Jan-18	07:18:12
39	180115M2_39	1701886-01 YS22-EB01-120417 0.11748	16-Jan-18	07:29:39
40	180115M2_40	1701886-02 YS22-AQ-120517 0.11801	16-Jan-18	07:41:05
41	180115M2_41	1701886-03 YS22-GW18-1217 0.11927	16-Jan-18	07:52:32
42	180115M2_42	IPA	16-Jan-18	08:04:00
43	180115M2_43	ST180115M2-10 PFC CS3 17L2611	16-Jan-18	08:15:26
44	180115M2_44	IPA	16-Jan-18	08:26:53
45	180115M2_45	B7L0183-BS1 OPR 0.25	16-Jan-18	08:38:20
46	180115M2_46	B7L0183-BSD1 LCSD 0.25	16-Jan-18	08:49:46
47	180115M2_47	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	09:01:13
48	180115M2_48	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	09:12:40
49	180115M2_49	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	09:24:07
50	180115M2_50	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	09:42:12
51	180115M2_51	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	09:53:46
52	180115M2_52	1701953-05 SA-MW127S-FRB-20171213 0.2...	16-Jan-18	10:05:14
53	180115M2_53	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	10:16:50
54	180115M2_54	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	10:28:24
55	180115M2_55	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	10:39:51
56	180115M2_56	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	10:51:18
57	180115M2_57	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	11:02:44
58	180115M2_58	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	11:14:11
59	180115M2_59	IPA	16-Jan-18	11:25:38
60	180115M2_60	ST180115M2-11 PFC CS0 17L2608	16-Jan-18	11:37:05
61	180115M2_61	IPA	16-Jan-18	11:48:32
62	180115M2_62	1701905-03RE1@40X WINF1712061655JLB ...	16-Jan-18	11:59:59
63	180115M2_63	1701852-01@20X IR03-MW034-C2-17D 0.26...	16-Jan-18	12:11:26
64	180115M2_64	1701852-02@20X IR03-MW018B-C1-17D 0.2...	16-Jan-18	12:22:53
65	180115M2_65	1701852-03@40X IR03-MW018A-C2-17D 0.2...	16-Jan-18	12:34:19

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	180115M2_66	1701852-03@20X IR03-MW018A-C2-17D 0.2...	16-Jan-18	12:45:47
67	180115M2_67	IPA	16-Jan-18	12:57:13
68	180115M2_68	1701852-02 IR03-MW018B-C1-17D 0.25583	16-Jan-18	13:08:40
69	180115M2_69	IPA	16-Jan-18	13:20:07
70	180115M2_70	1701840-05 YS22-GW10-1217 0.11512	16-Jan-18	13:31:34
71	180115M2_71	IPA	16-Jan-18	13:43:01
72	180115M2_72	ST180115M2-12 PFC CS3 17L2611	16-Jan-18	13:54:28

Dataset: U:\Q4.PRO\results\180115M2\180115M2-43.qld

Last Altered: Tuesday, January 16, 2018 14:39:26 Pacific Standard Time

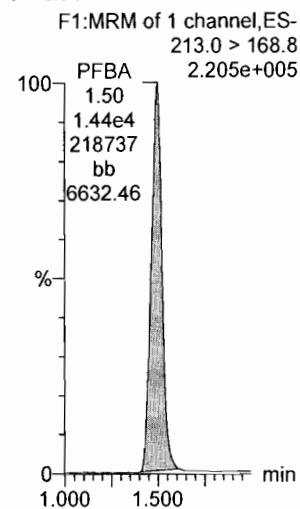
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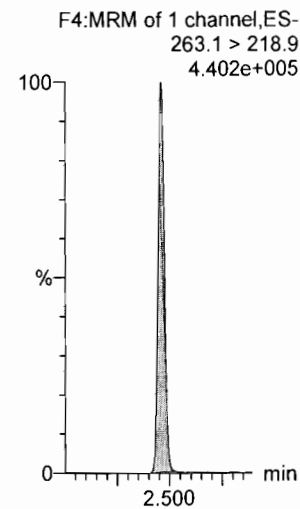
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Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

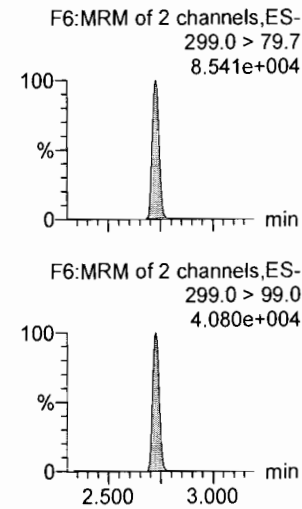
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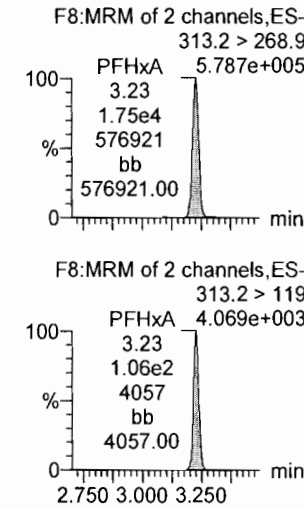
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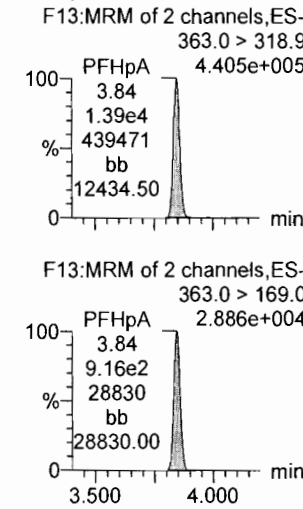
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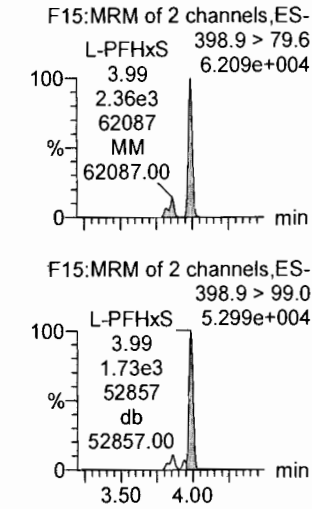
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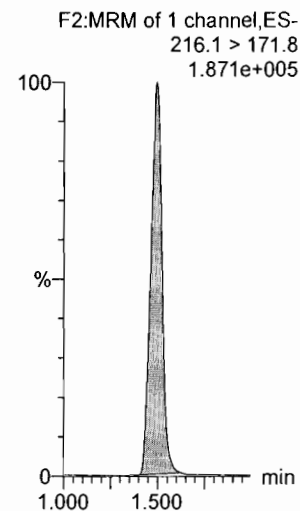
PFHpA



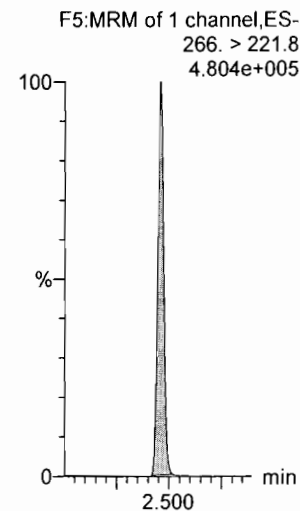
L-PFHxS



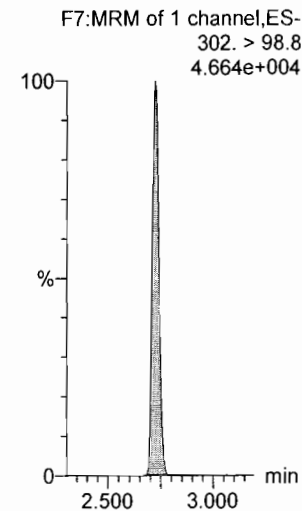
13C3-PFBA



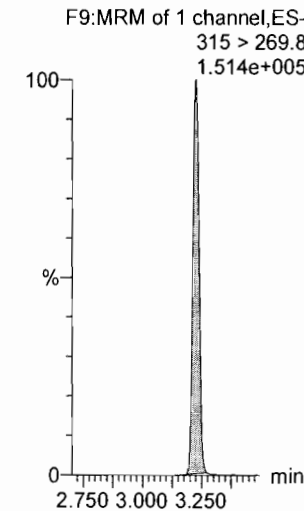
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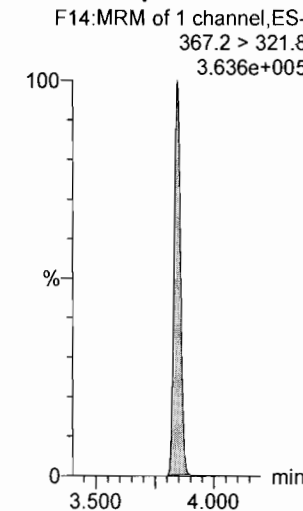
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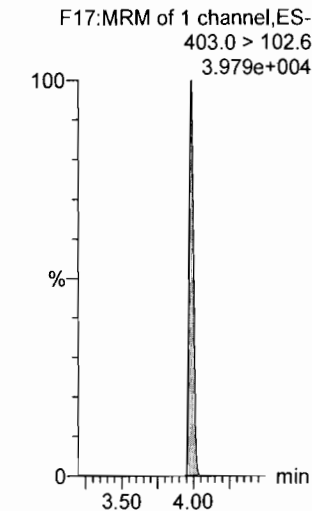
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



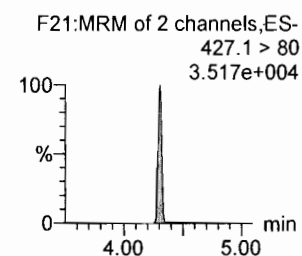
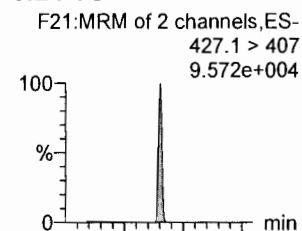
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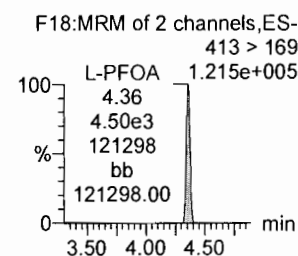
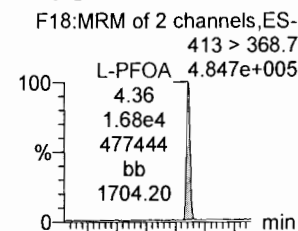
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Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

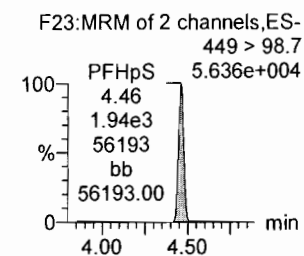
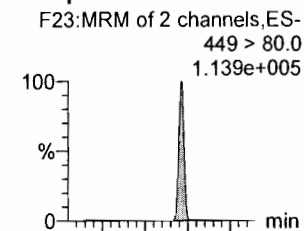
6:2 FTS



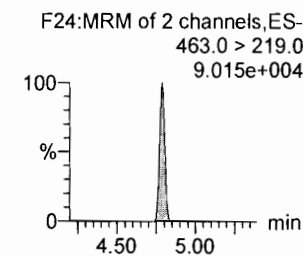
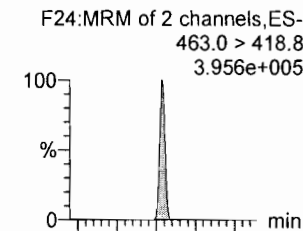
L-PFOA



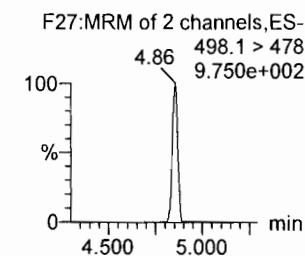
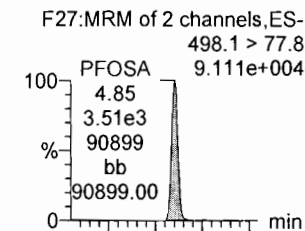
PFHpS



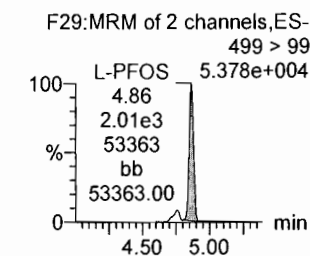
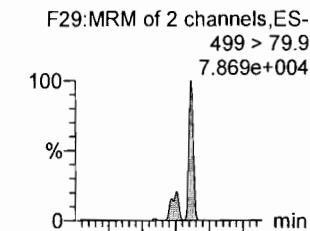
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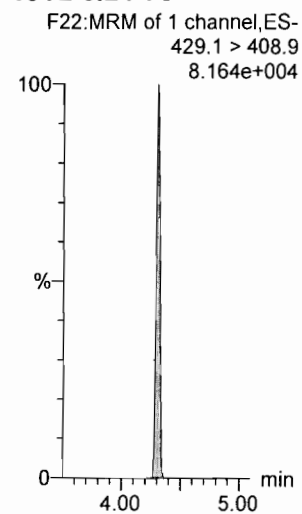
PFOSA



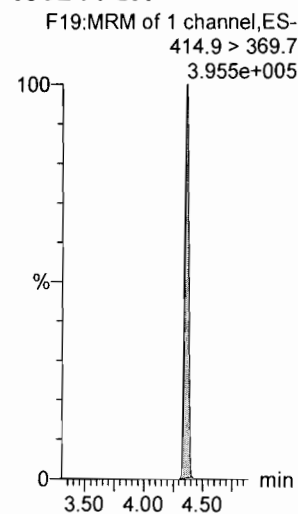
L-PFOS



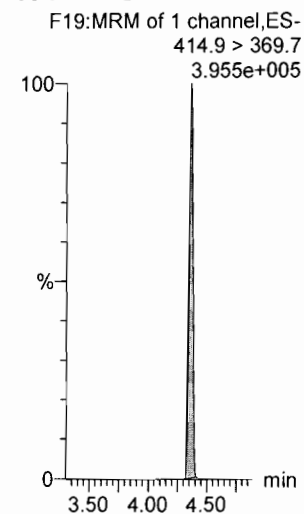
13C2-6:2 FTS



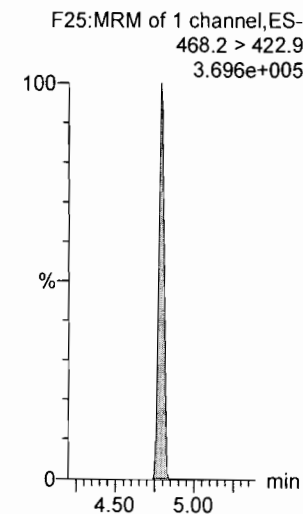
13C2-PFOA



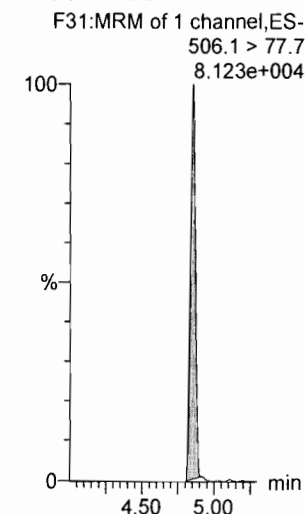
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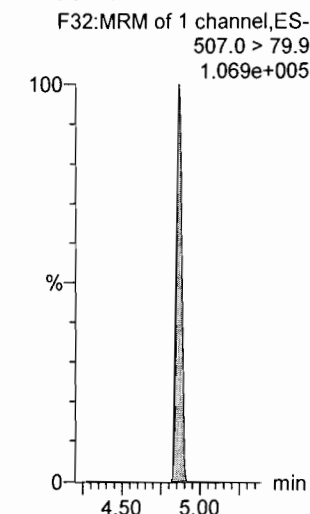
13C5-PFNA



13C8-PFOSA



13C8-PFOS



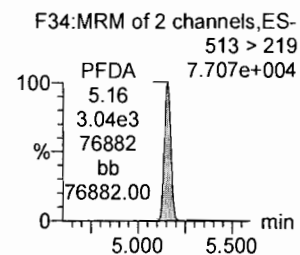
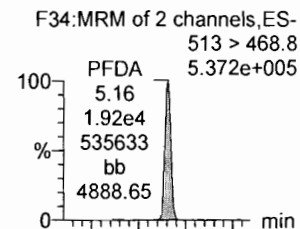
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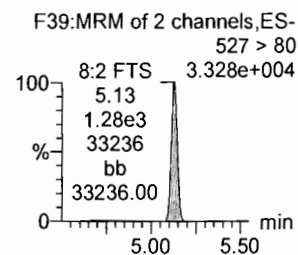
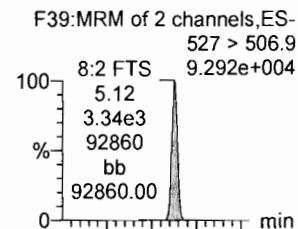
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Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

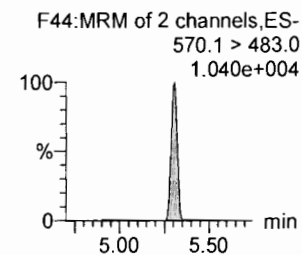
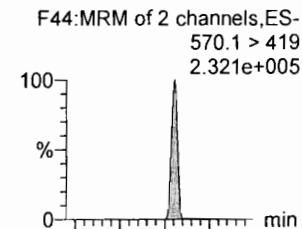
PFDA



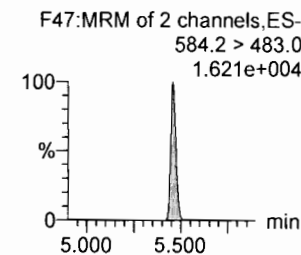
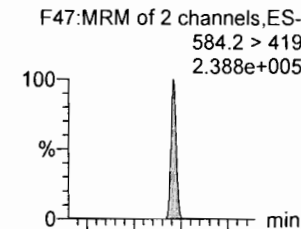
8:2 FTS



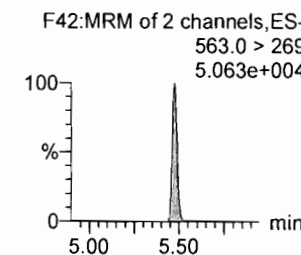
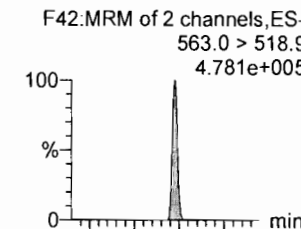
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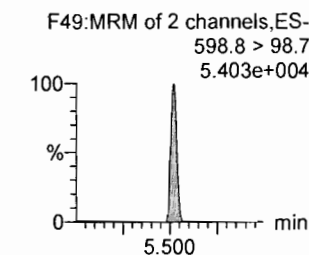
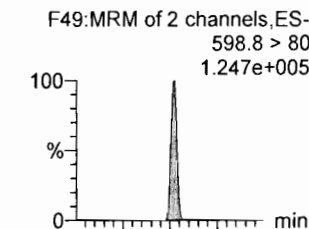
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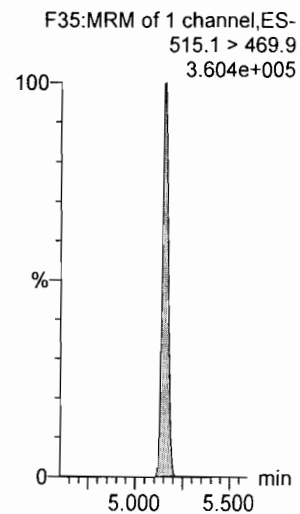
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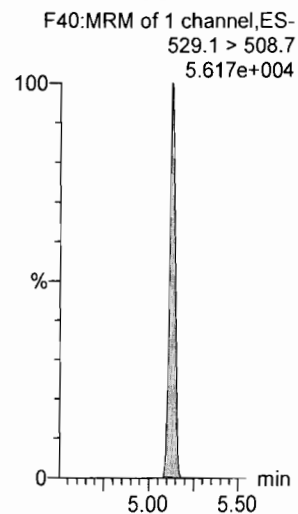
PFDS



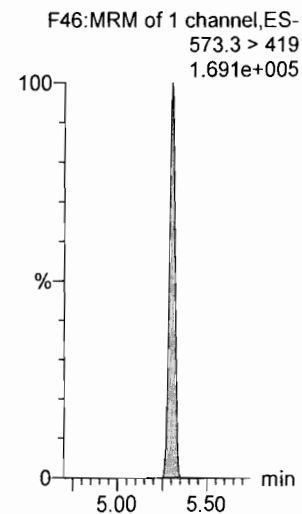
13C2-PFDA



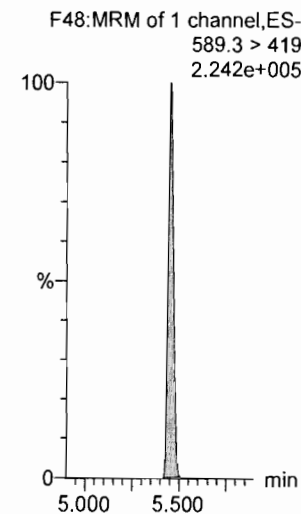
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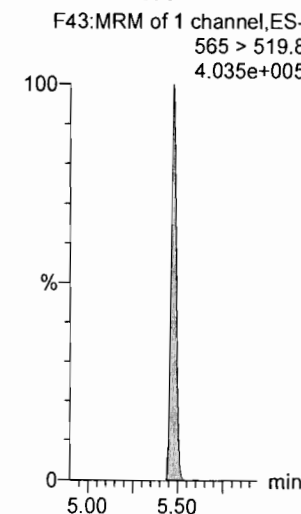
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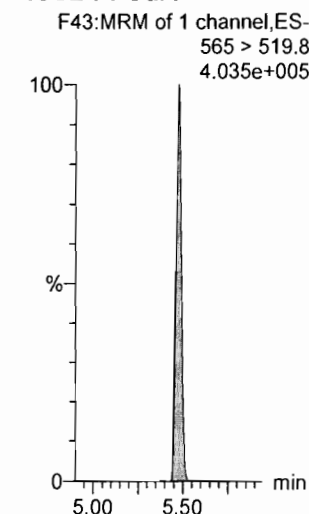
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13C2-PFUdA



13C2-PFUdA

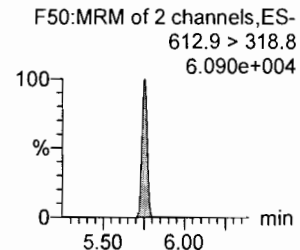
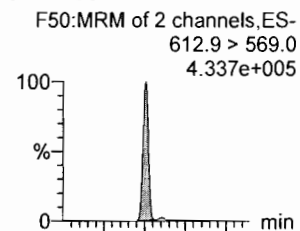


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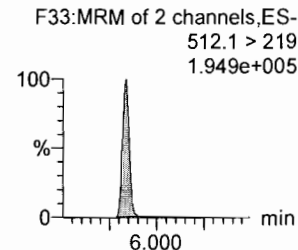
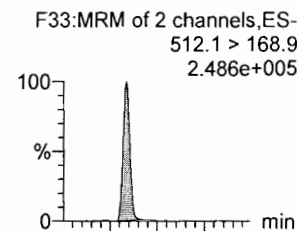
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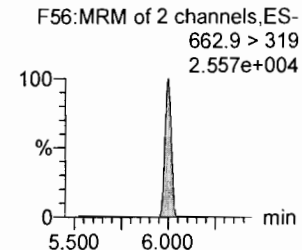
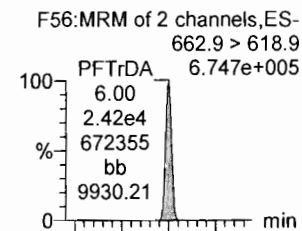
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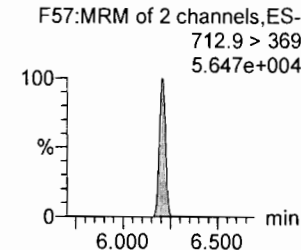
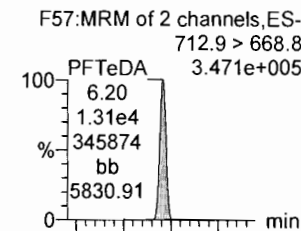
N-MeFOSA



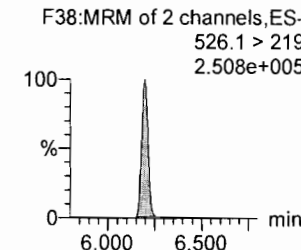
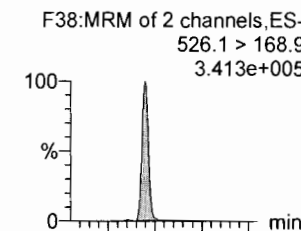
PFT_rDA



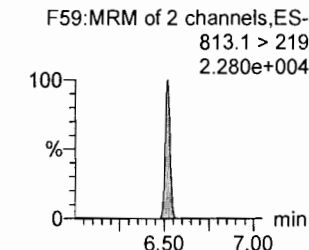
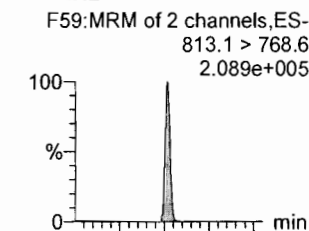
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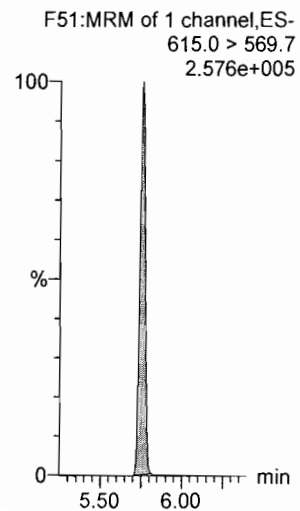
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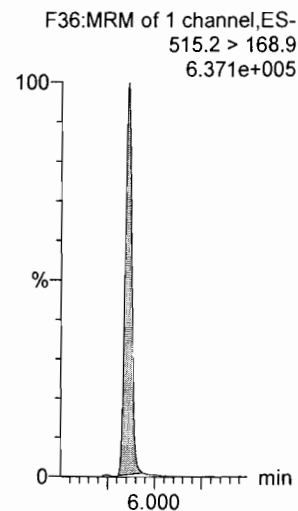
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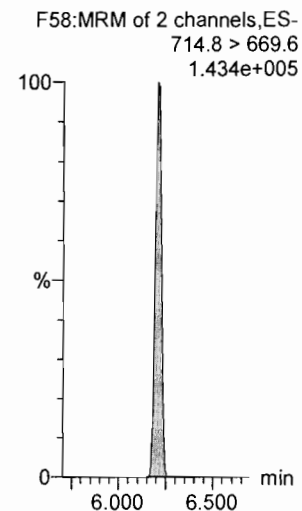
¹³C₂-PFD_oA



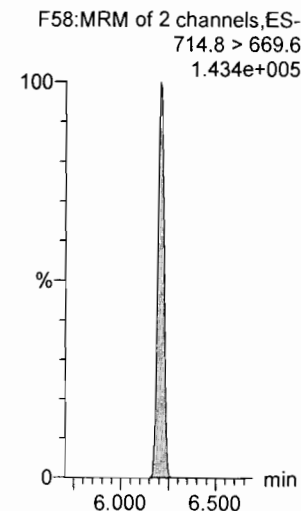
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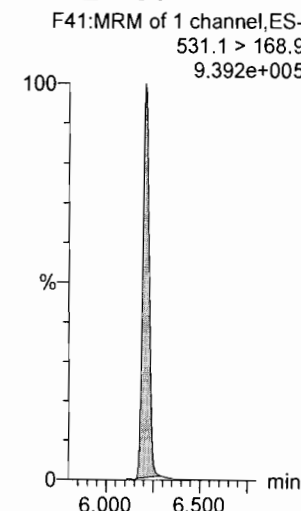
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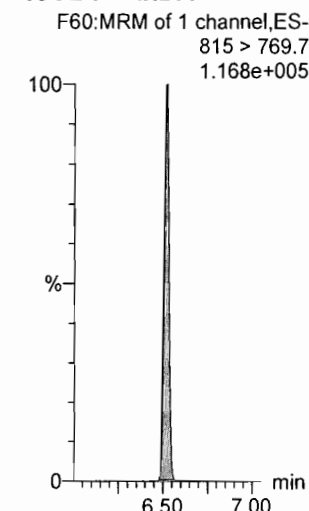
¹³C₂-PFT_eDA



d₅-N-ETFOSA



¹³C₂-PFH_xDA

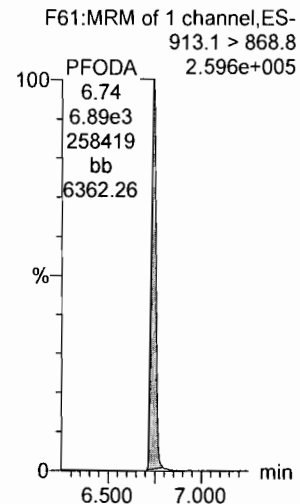


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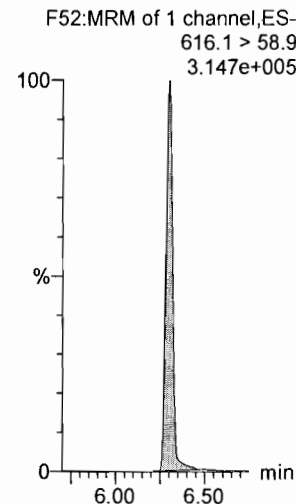
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Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

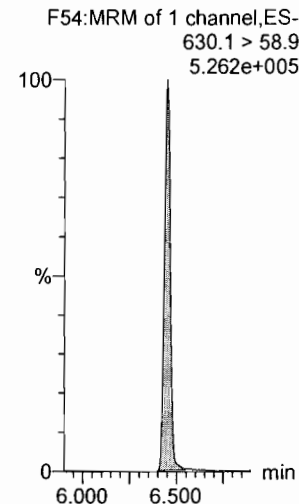
PFODA



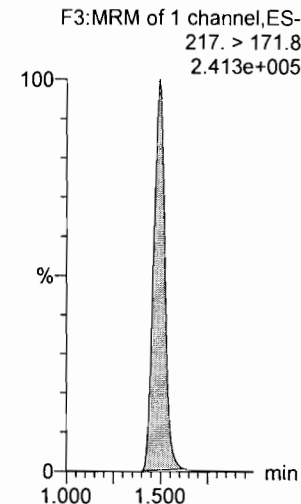
N-MeFOSE



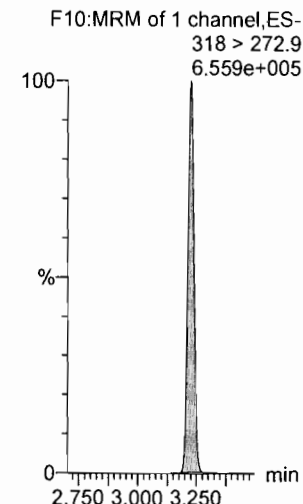
N-EtFOSE



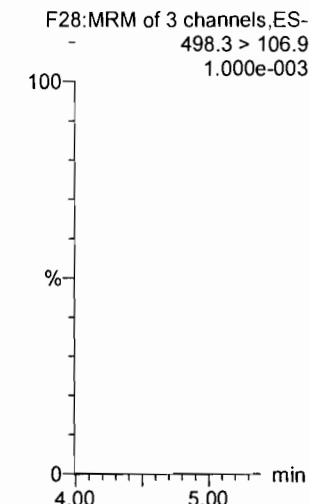
13C4-PFBA



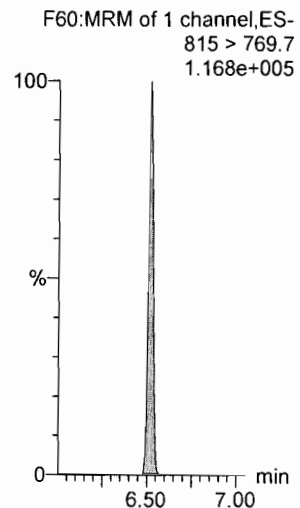
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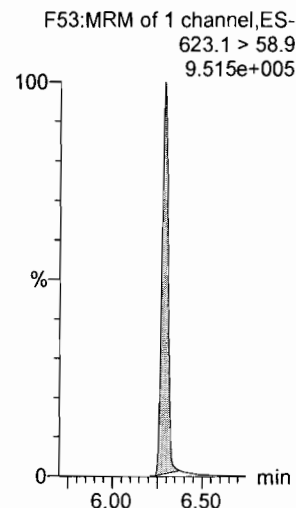
TCDA



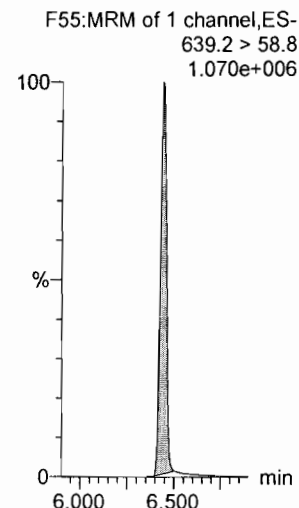
13C2-PFHxDA



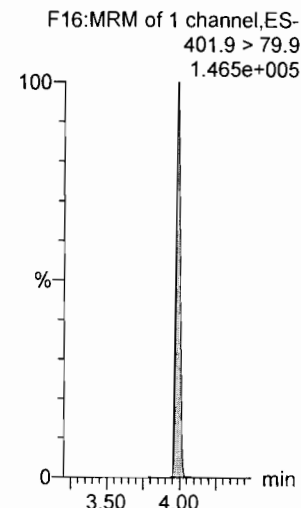
d7-N-MeFOSE



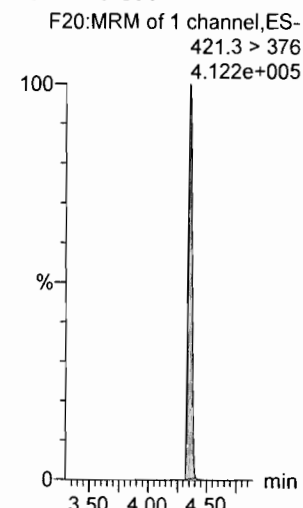
d9-N-EtFOSE



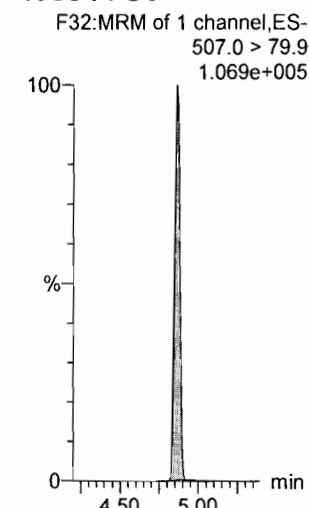
13C3-PFHxS



13C8-PFOA



13C8-PFOS



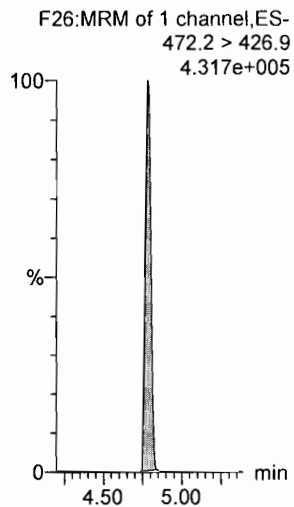
Dataset: U:\Q4.PRO\results\180115M2\180115M2-43.qld

Last Altered: Tuesday, January 16, 2018 14:39:26 Pacific Standard Time

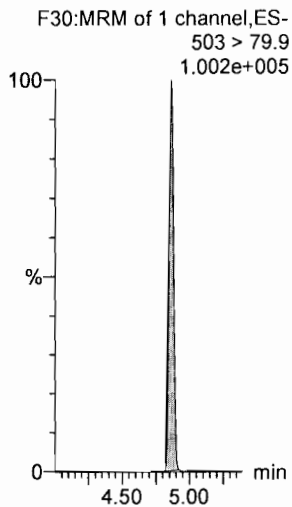
Printed: Tuesday, January 16, 2018 14:39:34 Pacific Standard Time

Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

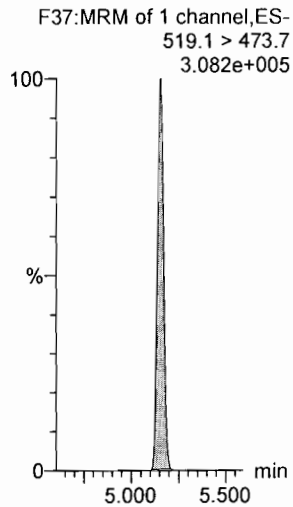
13C9-PFNA



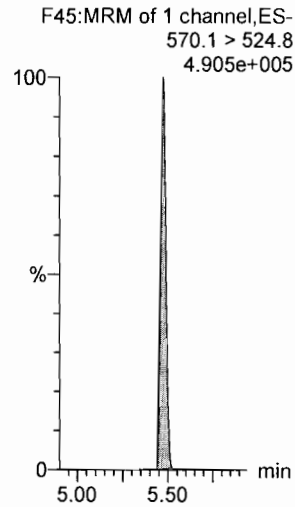
13C4-PFOS



13C6-PFDA



13C7-PFUDa



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

Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

PFDS < 70% in 1CV.

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Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Compound name: PFBA

Correlation coefficient: $r = 0.998579$, $r^2 = 0.997160$

Calibration curve: $1.33977 * x + -0.0328732$

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

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

DC
1/16/18

JHA 01/16/2018

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	1.53	169.362	8006.990	0.264	0.2	-11.2	NO	0.997	NO	bb
2	2 180115M2_2	Standard	0.500	1.53	462.377	8945.453	0.646	0.5	1.4	NO	0.997	NO	bb
3	3 180115M2_3	Standard	1.000	1.53	1135.743	11178.312	1.270	1.0	-2.8	NO	0.997	NO	bb
4	4 180115M2_4	Standard	2.000	1.53	2008.745	9860.501	2.546	1.9	-3.7	NO	0.997	NO	bb
5	5 180115M2_5	Standard	5.000	1.52	5607.313	10104.886	6.936	5.2	4.0	NO	0.997	NO	bb
6	6 180115M2_6	Standard	10.000	1.52	12518.734	10919.465	14.331	10.7	7.2	NO	0.997	NO	bb
7	7 180115M2_7	Standard	50.000	1.52	47957.504	9706.659	61.759	46.1	-7.8	NO	0.997	NO	bb
8	8 180115M2_8	Standard	100.000	1.52	99506.547	9008.640	138.071	103.1	3.1	NO	0.997	NO	bb

Compound name: PFPeA

Correlation coefficient: $r = 0.997990$, $r^2 = 0.995984$

Calibration curve: $1.15515 * x + -0.0327357$

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 180115M2_1	Standard	0.250	2.48	169.733	8868.418	0.239	0.2	-5.8	NO	0.996	NO	MM
2	2 180115M2_2	Standard	0.500	2.48	456.397	10441.303	0.546	0.5	0.3	NO	0.996	NO	MM
3	3 180115M2_3	Standard	1.000	2.48	1148.539	13027.811	1.102	1.0	-1.8	NO	0.996	NO	MM
4	4 180115M2_4	Standard	2.000	2.48	2044.792	11372.540	2.248	2.0	-1.3	NO	0.996	NO	MM
5	5 180115M2_5	Standard	5.000	2.48	5892.852	11971.679	6.153	5.4	7.1	NO	0.996	NO	MM
6	6 180115M2_6	Standard	10.000	2.48	12361.923	12510.149	12.352	10.7	7.2	NO	0.996	NO	MM
7	7 180115M2_7	Standard	50.000	2.48	46897.496	11201.616	52.333	45.3	-9.3	NO	0.996	NO	MM
8	8 180115M2_8	Standard	100.000	2.48	99353.172	10375.532	119.696	103.6	3.6	NO	0.996	NO	MM

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Compound name: PFBS

Coefficient of Determination: $R^2 = 0.996395$

Calibration curve: $0.00351371 * x^2 + 1.85665 * x + 0.254875$

Response type: Internal Std (Ref 33), 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 180115M2_1	Standard	0.250	2.75	57.475	1196.924	0.600	0.2	-25.6	NO	0.996	NO	MM
2	2 180115M2_2	Standard	0.500	2.75	97.312	1206.778	1.008	0.4	-18.9	NO	0.996	NO	bb
3	3 180115M2_3	Standard	1.000	2.75	267.604	1442.793	2.318	1.1	10.9	NO	0.996	NO	bb
4	4 180115M2_4	Standard	2.000	2.75	456.564	1290.825	4.421	2.2	11.7	NO	0.996	NO	bb
5	5 180115M2_5	Standard	5.000	2.74	1258.317	1432.762	10.978	5.7	14.3	NO	0.996	NO	bb
6	6 180115M2_6	Standard	10.000	2.75	2824.915	1624.717	21.734	11.3	13.3	NO	0.996	NO	bb
7	7 180115M2_7	Standard	50.000	2.75	9832.006	1307.205	94.017	46.4	-7.2	NO	0.996	NO	bb
8	8 180115M2_8	Standard	100.000	2.74	21516.695	1197.229	224.651	101.4	1.4	NO	0.996	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.996265$, $r^2 = 0.992544$

Calibration curve: $1.75438 * x + 0.0169924$

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 180115M2_1	Standard	0.250	3.25	306.921	2798.348	0.548	0.3	21.2	NO	0.993	NO	bb
2	2 180115M2_2	Standard	0.500	3.25	548.713	3301.620	0.831	0.5	-7.2	NO	0.993	NO	bb
3	3 180115M2_3	Standard	1.000	3.25	1388.564	4246.745	1.635	0.9	-7.8	NO	0.993	NO	bb
4	4 180115M2_4	Standard	2.000	3.25	2429.710	3760.921	3.230	1.8	-8.4	NO	0.993	NO	bb
5	5 180115M2_5	Standard	5.000	3.25	7106.033	3739.436	9.501	5.4	8.1	NO	0.993	NO	bb
6	6 180115M2_6	Standard	10.000	3.25	14392.021	4073.186	17.667	10.1	0.6	NO	0.993	NO	bb
7	7 180115M2_7	Standard	50.000	3.25	53584.609	3489.034	76.790	43.8	-12.5	NO	0.993	NO	bb
8	8 180115M2_8	Standard	100.000	3.24	123063.164	3308.405	185.986	106.0	6.0	NO	0.993	NO	bb

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Compound name: PFHpA

Correlation coefficient: $r = 0.997692$, $r^2 = 0.995389$

Calibration curve: $1.49645 * x + -0.0592287$

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 180115M2_1	Standard	0.250	3.87	179.873	7169.426	0.314	0.2	-0.3	NO	0.995	NO	bb
2	2 180115M2_2	Standard	0.500	3.87	469.863	8300.460	0.708	0.5	2.5	NO	0.995	NO	bb
3	3 180115M2_3	Standard	1.000	3.87	1139.616	10064.894	1.415	1.0	-1.5	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	3.87	2080.912	8890.794	2.926	2.0	-0.3	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	3.87	5066.119	8790.349	7.204	4.9	-2.9	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	3.87	12529.151	9715.788	16.120	10.8	8.1	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	3.87	47028.797	8726.845	67.362	45.1	-9.9	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	3.86	101713.539	8149.912	156.004	104.3	4.3	NO	0.995	NO	bb

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.999726$

Calibration curve: $-0.0119577 * x^2 + 2.1128 * x + 0.0383417$

Response type: Internal Std (Ref 36), 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 180115M2_1	Standard	0.250	4.01	38.643	793.087	0.609	0.3	8.2	NO	1.000	NO	MM
2	2 180115M2_2	Standard	0.500	4.02	85.314	971.136	1.098	0.5	0.6	NO	1.000	NO	MM
3	3 180115M2_3	Standard	1.000	4.01	182.145	1035.130	2.200	1.0	2.9	NO	1.000	NO	MM
4	4 180115M2_4	Standard	2.000	4.01	349.074	1074.646	4.060	1.9	-3.8	NO	1.000	NO	MM
5	5 180115M2_5	Standard	5.000	4.01	873.617	1083.133	10.082	4.9	-2.2	NO	1.000	NO	MM
6	6 180115M2_6	Standard	10.000	4.01	1964.532	1211.424	20.271	10.2	1.6	NO	1.000	NO	MM
7	7 180115M2_7	Standard	50.000	4.01	6470.750	1067.766	75.751	50.0	-0.1	NO	1.000	NO	MM
8	8 180115M2_8	Standard	100.000	4.01	14751.116	1041.940	176.967			NO	1.000	NO	MMXI

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.995384$

Calibration curve: $-0.00485621 * x^2 + 2.92773 * x + -0.123035$

Response type: Internal Std (Ref 36), 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 180115M2_1	Standard	0.250	4.32	28.815	793.087	0.454	0.2	-21.1	NO	0.995	NO	MM
2	2 180115M2_2	Standard	0.500	4.34	118.251	971.136	1.522	0.6	12.5	NO	0.995	NO	bb
3	3 180115M2_3	Standard	1.000	4.34	221.274	1035.130	2.672	1.0	-4.4	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	4.33	430.245	1074.646	5.004	1.8	-12.2	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	4.32	1149.229	1083.133	13.263	4.6	-7.9	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	4.33	3333.318	1211.424	34.395	12.0	20.3	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	4.33	10895.729	1067.766	127.553	47.3	-5.4	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	4.32	20578.084	1041.940	246.872	101.4	1.4	NO	0.995	NO	bb

Compound name: L-PFOA

Correlation coefficient: $r = 0.997397$, $r^2 = 0.994801$

Calibration curve: $1.11967 * x + 0.355683$

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 180115M2_1	Standard	0.250	4.38	600.230	11129.100	0.674	0.3	13.8	NO	0.995	NO	bb
2	2 180115M2_2	Standard	0.500	4.39	831.124	12054.782	0.862	0.5	-9.6	NO	0.995	NO	bb
3	3 180115M2_3	Standard	1.000	4.39	1444.660	13949.129	1.295	0.8	-16.1	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	4.38	2614.963	13294.508	2.459	1.9	-6.1	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	4.38	6889.996	12417.951	6.936	5.9	17.5	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	4.39	14997.181	15251.905	12.291	10.7	6.6	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	4.38	52255.660	12829.036	50.915	45.2	-9.7	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	4.38	105739.719	11359.297	116.358	103.6	3.6	NO	0.995	NO	bb

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Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.998980$

Calibration curve: $-0.00141138 * x^2 + 0.29869 * x + -0.030036$

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 180115M2_1	Standard	0.250	4.49	37.480	11129.100	0.042	0.2	-3.3	NO	0.999	NO	MM
2	2 180115M2_2	Standard	0.500	4.49	130.063	12054.782	0.135	0.6	10.7	NO	0.999	NO	bb
3	3 180115M2_3	Standard	1.000	4.49	279.276	13949.129	0.250	0.9	-5.7	NO	0.999	NO	bb
4	4 180115M2_4	Standard	2.000	4.49	558.214	13294.508	0.525	1.9	-6.3	NO	0.999	NO	bb
5	5 180115M2_5	Standard	5.000	4.48	1514.899	12417.951	1.525	5.3	6.8	NO	0.999	NO	bb
6	6 180115M2_6	Standard	10.000	4.49	3361.794	15251.905	2.755	9.8	-2.2	NO	0.999	NO	bb
7	7 180115M2_7	Standard	50.000	4.49	11679.672	12829.036	11.380	50.0	0.1	NO	0.999	NO	bb
8	8 180115M2_8	Standard	100.000	4.48	25926.199	11359.297	28.530			NO	0.999	NO	bbXI

Compound name: PFNA

Coefficient of Determination: $R^2 = 0.998251$

Calibration curve: $0.00123227 * x^2 + 1.35269 * x + -0.0256811$

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 180115M2_1	Standard	0.250	4.82	259.860	8611.178	0.377	0.3	19.1	NO	0.998	NO	bb
2	2 180115M2_2	Standard	0.500	4.82	449.605	10629.969	0.529	0.4	-18.1	NO	0.998	NO	bb
3	3 180115M2_3	Standard	1.000	4.82	1316.261	11370.316	1.447	1.1	8.8	NO	0.998	NO	bb
4	4 180115M2_4	Standard	2.000	4.81	2082.001	11056.825	2.354	1.8	-12.2	NO	0.998	NO	bb
5	5 180115M2_5	Standard	5.000	4.81	6798.414	13849.589	6.136	4.5	-9.3	NO	0.998	NO	bb
6	6 180115M2_6	Standard	10.000	4.81	15373.284	12422.833	15.469	11.3	13.4	NO	0.998	NO	bb
7	7 180115M2_7	Standard	50.000	4.81	56579.699	10235.261	69.099	48.9	-2.2	NO	0.998	NO	bb
8	8 180115M2_8	Standard	100.000	4.81	119351.391	10065.815	148.214	100.4	0.4	NO	0.998	NO	bb

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Compound name: PFOSA

Correlation coefficient: $r = 0.999519$, $r^2 = 0.999039$

Calibration curve: $1.2051 * x + -0.0242098$

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 180115M2_1	Standard	0.250	4.87	37.636	2018.146	0.233	0.2	-14.6	NO	0.999	NO	MM
2	2 180115M2_2	Standard	0.500	4.88	105.176	2450.537	0.536	0.5	-6.9	NO	0.999	NO	bb
3	3 180115M2_3	Standard	1.000	4.88	323.306	3263.926	1.238	1.0	4.8	NO	0.999	NO	bb
4	4 180115M2_4	Standard	2.000	4.88	552.892	2580.329	2.678	2.2	12.1	NO	0.999	NO	bb
5	5 180115M2_5	Standard	5.000	4.87	1393.146	2747.783	6.338	5.3	5.6	NO	0.999	NO	bb
6	6 180115M2_6	Standard	10.000	4.88	3058.177	3176.006	12.036	10.0	0.1	NO	0.999	NO	bb
7	7 180115M2_7	Standard	50.000	4.88	11742.631	2461.930	59.621	49.5	-1.0	NO	0.999	NO	bb
8	8 180115M2_8	Standard	100.000	4.87	25960.203	1976.078	164.215	136.3	36.3	NO	0.999	NO	bbX

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.997719$

Calibration curve: $0.000945797 * x^2 + 1.10838 * x + -0.0443788$

Response type: Internal Std (Ref 41), 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 180115M2_1	Standard	0.250	4.89	39.696	2273.944	0.218	0.2	-5.3	NO	0.998	NO	MM
2	2 180115M2_2	Standard	0.500	4.90	100.584	2945.228	0.427	0.4	-15.0	NO	0.998	NO	MM
3	3 180115M2_3	Standard	1.000	4.89	310.652	3464.374	1.121	1.1	5.0	NO	0.998	NO	MM
4	4 180115M2_4	Standard	2.000	4.89	535.144	3222.043	2.076	1.9	-4.5	NO	0.998	NO	MM
5	5 180115M2_5	Standard	5.000	4.89	1476.891	2939.392	6.281	5.7	13.6	NO	0.998	NO	MM
6	6 180115M2_6	Standard	10.000	4.89	3408.097	3461.071	12.309	11.0	10.4	NO	0.998	NO	MM
7	7 180115M2_7	Standard	50.000	4.89	12781.024	2933.493	54.462	47.3	-5.5	NO	0.998	NO	MM
8	8 180115M2_8	Standard	100.000	4.89	23913.445	2455.447	121.737	101.1	1.1	NO	0.998	NO	MM

Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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Compound name: PFDA

Coefficient of Determination: $R^2 = 0.996672$

Calibration curve: $0.0014094 * x^2 + 1.42444 * x + 0.0195565$

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 180115M2_1	Standard	0.250	5.19	236.809	9117.220	0.325	0.2	-14.3	NO	0.997	NO	bb
2	2 180115M2_2	Standard	0.500	5.19	522.395	9259.429	0.705	0.5	-3.8	NO	0.997	NO	bb
3	3 180115M2_3	Standard	1.000	5.19	1297.286	10469.260	1.549	1.1	7.3	NO	0.997	NO	bb
4	4 180115M2_4	Standard	2.000	5.18	2358.456	11543.967	2.554	1.8	-11.2	NO	0.997	NO	bb
5	5 180115M2_5	Standard	5.000	5.18	6493.696	10095.664	8.040	5.6	12.0	NO	0.997	NO	bb
6	6 180115M2_6	Standard	10.000	5.19	13712.378	10322.235	16.605	11.5	15.1	NO	0.997	NO	bb
7	7 180115M2_7	Standard	50.000	5.19	49480.613	8868.471	69.742	46.8	-6.4	NO	0.997	NO	bb
8	8 180115M2_8	Standard	100.000	5.18	124944.242	9834.333	158.811	101.3	1.3	NO	0.997	NO	bb

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.990883$

Calibration curve: $-0.00290289 * x^2 + 0.283311 * x + -0.0505687$

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 180115M2_1	Standard	0.250	5.16	13.774	9117.220	0.019	0.2	-1.7	NO	0.991	NO	MM
2	2 180115M2_2	Standard	0.500	5.16	45.840	9259.429	0.062	0.4	-20.3	NO	0.991	NO	MM
3	3 180115M2_3	Standard	1.000	5.16	258.452	10469.260	0.309	1.3	28.5	NO	0.991	NO	bb
4	4 180115M2_4	Standard	2.000	5.16	452.092	11543.967	0.490	1.9	-2.7	NO	0.991	NO	bb
5	5 180115M2_5	Standard	5.000	5.16	994.999	10095.664	1.232	4.8	-4.8	NO	0.991	NO	bb
6	6 180115M2_6	Standard	10.000	5.16	2080.582	10322.235	2.520	10.1	1.2	NO	0.991	NO	bb
7	7 180115M2_7	Standard	50.000	5.16	10637.392	8868.471	14.993			NO	0.991	YES	bbXI
8	8 180115M2_8	Standard	100.000	5.15	18031.459	9834.333	22.919			NO	0.991	YES	bbXI

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999579$

Calibration curve: $-0.00488709 * x^2 + 1.70404 * x + -0.0213461$

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 180115M2_1	Standard	0.250	5.34	110.162	3668.057	0.375	0.2	-6.8	NO	1.000	NO	bb
2	2 180115M2_2	Standard	0.500	5.34	278.179	4068.198	0.855	0.5	3.0	NO	1.000	NO	bb
3	3 180115M2_3	Standard	1.000	5.34	608.335	4941.718	1.539	0.9	-8.2	NO	1.000	NO	bb
4	4 180115M2_4	Standard	2.000	5.33	1231.249	4259.577	3.613	2.1	7.3	NO	1.000	NO	bb
5	5 180115M2_5	Standard	5.000	5.33	3181.715	4700.651	8.461	5.1	1.0	NO	1.000	NO	bb
6	6 180115M2_6	Standard	10.000	5.34	6179.386	4734.263	16.316	9.9	-1.3	NO	1.000	NO	bb
7	7 180115M2_7	Standard	50.000	5.33	28100.633	4812.376	72.991	50.0	0.0	NO	1.000	NO	bb
8	8 180115M2_8	Standard	100.000	5.33	46974.879	4204.535	139.655	131.7	31.7	NO	1.000	NO	bbX

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999053$

Calibration curve: $-0.0014328 * x^2 + 1.31318 * x + -0.0721789$

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 180115M2_1	Standard	0.250	5.49	100.263	4291.856	0.292	0.3	11.0	NO	0.999	NO	bb
2	2 180115M2_2	Standard	0.500	5.49	161.902	4807.261	0.421	0.4	-24.9	NO	0.999	NO	bb
3	3 180115M2_3	Standard	1.000	5.49	569.706	5925.357	1.202	1.0	-2.9	NO	0.999	NO	bb
4	4 180115M2_4	Standard	2.000	5.49	867.935	4489.890	2.416	1.9	-5.1	NO	0.999	NO	bb
5	5 180115M2_5	Standard	5.000	5.49	2512.091	5242.137	5.990	4.6	-7.2	NO	0.999	NO	bb
6	6 180115M2_6	Standard	10.000	5.49	6584.632	5935.848	13.866	10.7	7.4	NO	0.999	NO	bb
7	7 180115M2_7	Standard	50.000	5.49	21965.389	4444.999	61.770	49.8	-0.4	NO	0.999	NO	bb
8	8 180115M2_8	Standard	100.000	5.48	40613.773	4340.295	116.967	100.0	0.0	NO	0.999	NO	bb

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Compound name: PFUdACoefficient of Determination: $R^2 = 0.996917$ Calibration curve: $-0.00723799 * x^2 + 1.36957 * x + -0.252476$

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 180115M2_1	Standard	0.250	5.51	291.033	10659.157	0.341	0.4	73.8	NO	0.997	NO	bbX
2	2 180115M2_2	Standard	0.500	5.51	541.356	12827.074	0.528	0.6	14.3	NO	0.997	NO	bb
3	3 180115M2_3	Standard	1.000	5.51	1323.581	14368.888	1.151	1.0	3.1	NO	0.997	NO	bb
4	4 180115M2_4	Standard	2.000	5.50	1949.719	12801.493	1.904	1.6	-20.6	NO	0.997	NO	bb
5	5 180115M2_5	Standard	5.000	5.50	5686.633	11208.095	6.342	4.9	-1.1	NO	0.997	NO	bb
6	6 180115M2_6	Standard	10.000	5.51	14467.421	13602.793	13.295	10.5	4.7	NO	0.997	NO	bb
7	7 180115M2_7	Standard	50.000	5.50	48741.223	12174.631	50.044	49.9	-0.3	NO	0.997	NO	bb
8	8 180115M2_8	Standard	100.000	5.50	109631.352	10688.771	128.209			NO	0.997	NO	bbXI

Compound name: PFDSCoefficient of Determination: $R^2 = 0.995370$ Calibration curve: $-0.00111201 * x^2 + 0.354642 * x + -0.0526574$

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 180115M2_1	Standard	0.250	5.55	49.403	10659.157	0.058	0.3	24.9	NO	0.995	NO	MM
2	2 180115M2_2	Standard	0.500	5.56	81.719	12827.074	0.080	0.4	-25.3	NO	0.995	NO	MM
3	3 180115M2_3	Standard	1.000	5.55	298.787	14368.888	0.260	0.9	-11.6	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	5.55	698.640	12801.493	0.682	2.1	4.3	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	5.55	1750.839	11208.095	1.953	5.8	15.2	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	5.55	3408.681	13602.793	3.132	9.2	-7.5	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	5.55	14534.954	12174.631	14.923	50.1	0.2	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	5.55	29850.322	10688.771	34.909			NO	0.995	NO	bbXI

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Compound name: PFDaA

Coefficient of Determination: $R^2 = 0.996448$

Calibration curve: $0.00269229 * x^2 + 1.39884 * x + 0.292328$

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	180115M2_1	Standard	0.250	5.79	300.361	6851.029	0.548	0.2	-26.9	NO	0.996	NO	bd
2	2	180115M2_2	Standard	0.500	5.79	604.702	8538.500	0.885	0.4	-15.3	NO	0.996	NO	bd
3	3	180115M2_3	Standard	1.000	5.79	1422.547	10789.430	1.648	1.0	-3.3	NO	0.996	NO	bd
4	4	180115M2_4	Standard	2.000	5.78	2700.776	9022.085	3.742	2.5	22.7	NO	0.996	NO	bd
5	5	180115M2_5	Standard	5.000	5.78	7561.792	10734.802	8.805	6.0	20.3	NO	0.996	NO	bd
6	6	180115M2_6	Standard	10.000	5.78	15299.965	12215.312	15.657	10.8	7.6	NO	0.996	NO	bd
7	7	180115M2_7	Standard	50.000	5.78	57159.984	9999.913	71.451	46.7	-6.6	NO	0.996	NO	bb
8	8	180115M2_8	Standard	100.000	5.78	110208.867	8119.767	169.661	101.3	1.3	NO	0.996	NO	bd

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999161$, $r^2 = 0.998323$

Calibration curve: $1.1181 * x + -0.100317$

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	180115M2_1	Standard	1.250	5.84	138.791	15969.864	1.304	1.3	0.5	NO	0.998	NO	bb
2	2	180115M2_2	Standard	2.500	5.84	298.599	17622.953	2.542	2.4	-5.5	NO	0.998	NO	bb
3	3	180115M2_3	Standard	5.000	5.84	735.826	21395.508	5.159	4.7	-5.9	NO	0.998	NO	bb
4	4	180115M2_4	Standard	10.000	5.84	1273.874	18699.383	10.219	9.2	-7.7	NO	0.998	NO	bb
5	5	180115M2_5	Standard	25.000	5.84	3744.515	19396.660	28.957	26.0	4.0	NO	0.998	NO	bb
6	6	180115M2_6	Standard	50.000	5.84	8920.301	21606.223	61.929	55.5	11.0	NO	0.998	NO	bb
7	7	180115M2_7	Standard	250.000	5.84	31396.402	17688.914	266.238	238.2	-4.7	NO	0.998	NO	bb
8	8	180115M2_8	Standard	500.000	5.84	64370.148	17051.773	566.247	506.5	1.3	NO	0.998	NO	bb

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Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.997156$

Calibration curve: $-0.000208194 * x^2 + 2.13661 * x + 0.0644742$

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 180115M2_1	Standard	0.250	6.03	345.115	6851.029	0.630	0.3	5.8	NO	0.997	NO	bb
2	2 180115M2_2	Standard	0.500	6.03	831.761	8538.500	1.218	0.5	8.0	NO	0.997	NO	bb
3	3 180115M2_3	Standard	1.000	6.03	1617.529	10789.430	1.874	0.8	-15.3	NO	0.997	NO	bb
4	4 180115M2_4	Standard	2.000	6.03	3191.131	9022.085	4.421	2.0	2.0	NO	0.997	NO	bb
5	5 180115M2_5	Standard	5.000	6.03	7888.307	10734.802	9.185	4.3	-14.6	NO	0.997	NO	bb
6	6 180115M2_6	Standard	10.000	6.03	24356.207	12215.312	24.924	11.6	16.5	NO	0.997	NO	bb
7	7 180115M2_7	Standard	50.000	6.03	82605.594	9999.913	103.258	48.5	-2.9	NO	0.997	NO	bb
8	8 180115M2_8	Standard	100.000	6.03	138314.813	8119.767	212.929	100.6	0.6	NO	0.997	NO	bb

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.990929$

Calibration curve: $-0.0220572 * x^2 + 3.53283 * x + -0.322211$

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 180115M2_1	Standard	0.250	6.24	230.708	3811.400	0.757	0.3	22.4	NO	0.991	NO	MM
2	2 180115M2_2	Standard	0.500	6.24	526.336	4625.902	1.422	0.5	-0.9	NO	0.991	NO	MM
3	3 180115M2_3	Standard	1.000	6.24	1174.005	5784.110	2.537	0.8	-18.7	NO	0.991	NO	MM
4	4 180115M2_4	Standard	2.000	6.23	2327.498	4166.997	6.982	2.1	4.7	NO	0.991	NO	bb
5	5 180115M2_5	Standard	5.000	6.23	5510.744	5054.189	13.629	4.1	-19.0	NO	0.991	NO	MM
6	6 180115M2_6	Standard	10.000	6.24	15163.117	5187.430	36.538	11.2	12.2	NO	0.991	NO	MM
7	7 180115M2_7	Standard	50.000	6.23	46221.027	4785.019	120.744	49.7	-0.6	NO	0.991	NO	bb
8	8 180115M2_8	Standard	100.000	6.23	113973.711	5518.160	258.179			NO	0.991	NO	bbXI

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.998672$

Calibration curve: $7.78779e-006 * x^2 + 1.00573 * x + -0.161262$

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 180115M2_1	Standard	1.250	6.21	150.663	23192.393	0.974	1.1	-9.7	NO	0.999	NO	bb
2	2 180115M2_2	Standard	2.500	6.20	406.969	25547.748	2.389	2.5	1.4	NO	0.999	NO	bb
3	3 180115M2_3	Standard	5.000	6.20	1002.338	31434.623	4.783	4.9	-1.7	NO	0.999	NO	bb
4	4 180115M2_4	Standard	10.000	6.20	1755.511	27705.471	9.505	9.6	-3.9	NO	0.999	NO	bb
5	5 180115M2_5	Standard	25.000	6.20	5156.592	28494.203	27.145	27.1	8.6	NO	0.999	NO	bb
6	6 180115M2_6	Standard	50.000	6.21	11703.195	32255.756	54.424	54.3	8.5	NO	0.999	NO	bb
7	7 180115M2_7	Standard	250.000	6.21	40516.031	25211.236	241.059	239.4	-4.2	NO	0.999	NO	bb
8	8 180115M2_8	Standard	500.000	6.20	83391.828	24552.484	509.471	504.8	1.0	NO	0.999	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.994875$

Calibration curve: $-0.000963947 * x^2 + 0.816406 * x + 0.115618$

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 180115M2_1	Standard	0.250	6.54	123.810	2113.428	0.293	0.2	-13.1	NO	0.995	NO	bb
2	2 180115M2_2	Standard	0.500	6.54	258.296	2775.093	0.465	0.4	-14.3	NO	0.995	NO	bb
3	3 180115M2_3	Standard	1.000	6.54	613.721	3282.116	0.935	1.0	0.5	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	6.54	951.224	2733.865	1.740	2.0	-0.3	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	6.54	2968.312	2890.199	5.135	6.2	23.9	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	6.54	5757.014	3217.573	8.946	11.0	9.6	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	6.54	23373.615	3292.356	35.497	45.8	-8.4	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	6.54	44946.250	3057.260	73.507	102.2	2.2	NO	0.995	NO	bb

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.998411$

Calibration curve: $-0.00110371 * x^2 + 0.927917 * x + 0.0174073$

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 180115M2_1	Standard	0.250	6.77	115.014	2113.428	0.272	0.3	9.8	NO	0.998	NO	bb
2	2 180115M2_2	Standard	0.500	6.77	242.942	2775.093	0.438	0.5	-9.4	NO	0.998	NO	MM
3	3 180115M2_3	Standard	1.000	6.77	550.045	3282.116	0.838	0.9	-11.5	NO	0.998	NO	bb
4	4 180115M2_4	Standard	2.000	6.76	1100.954	2733.865	2.014	2.2	7.8	NO	0.998	NO	bb
5	5 180115M2_5	Standard	5.000	6.76	2821.314	2890.199	4.881	5.3	5.5	NO	0.998	NO	bb
6	6 180115M2_6	Standard	10.000	6.76	6417.821	3217.573	9.973	10.9	8.7	NO	0.998	NO	bb
7	7 180115M2_7	Standard	50.000	6.76	27476.373	3292.356	41.728	47.7	-4.7	NO	0.998	NO	bb
8	8 180115M2_8	Standard	100.000	6.76	50531.801	3057.260	82.642	101.2	1.2	NO	0.998	NO	bb

Compound name: N-MeFOSE

Coefficient of Determination: $R^2 = 0.995669$

Calibration curve: $-0.000576302 * x^2 + 1.20032 * x + -0.665296$

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 180115M2_1	Standard	1.250	6.30	174.170	20888.145	1.251	1.6	27.8	NO	0.996	NO	bb
2	2 180115M2_2	Standard	2.500	6.30	360.986	26082.570	2.076	2.3	-8.5	NO	0.996	NO	bb
3	3 180115M2_3	Standard	5.000	6.31	977.036	31250.859	4.690	4.5	-10.6	NO	0.996	NO	bb
4	4 180115M2_4	Standard	10.000	6.30	2180.307	29842.697	10.959	9.7	-2.7	NO	0.996	NO	bb
5	5 180115M2_5	Standard	25.000	6.30	6234.112	30325.629	30.836	26.6	6.3	NO	0.996	NO	bd
6	6 180115M2_6	Standard	50.000	6.30	11465.369	35709.676	48.161	41.5	-17.0	NO	0.996	NO	bd
7	7 180115M2_7	Standard	250.000	6.31	46049.070	24759.139	278.982	267.3	6.9	NO	0.996	NO	bb
8	8 180115M2_8	Standard	500.000	6.30	86639.500	28975.107	448.520	489.1	-2.2	NO	0.996	NO	bb

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Compound name: N-EtFOSE

Coefficient of Determination: $R^2 = 0.999660$

Calibration curve: $0.00097229 * x^2 + 1.15972 * x + 0.350902$

Response type: Internal Std (Ref 53), 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 180115M2_1	Standard	1.250	6.45	222.976	22450.639	1.490	1.0	-21.5	NO	1.000	NO	bb
2	2 180115M2_2	Standard	2.500	6.46	541.090	21303.693	3.810	3.0	19.0	NO	1.000	NO	bb
3	3 180115M2_3	Standard	5.000	6.45	1251.249	31097.133	6.036	4.9	-2.4	NO	1.000	NO	bb
4	4 180115M2_4	Standard	10.000	6.45	2353.475	27869.063	12.667	10.5	5.3	NO	1.000	NO	bb
5	5 180115M2_5	Standard	25.000	6.45	5290.171	27858.053	28.485	23.8	-4.9	NO	1.000	NO	bb
6	6 180115M2_6	Standard	50.000	6.46	12232.546	28613.766	64.126	52.7	5.3	NO	1.000	NO	bd
7	7 180115M2_7	Standard	250.000	6.46	51195.125	22170.844	346.368	247.2	-1.1	NO	1.000	NO	bb
8	8 180115M2_8	Standard	500.000	6.45	111534.742	20270.486	825.348	501.0	0.2	NO	1.000	NO	bd

Compound name: 13C3-PFBA

Response Factor: 0.779165

RRF SD: 0.0334129, Relative SD: 4.2883

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 180115M2_1	Standard	12.500	1.53	8006.990	10061.779	9.947	12.8	2.1	NO		NO	bb
2	2 180115M2_2	Standard	12.500	1.52	8945.453	11662.093	9.588	12.3	-1.6	NO		NO	bb
3	3 180115M2_3	Standard	12.500	1.52	11178.312	14677.296	9.520	12.2	-2.3	NO		NO	bb
4	4 180115M2_4	Standard	12.500	1.52	9860.501	12356.659	9.975	12.8	2.4	NO		NO	bb
5	5 180115M2_5	Standard	12.500	1.52	10104.886	13477.931	9.372	12.0	-3.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	1.52	10919.465	14699.104	9.286	11.9	-4.7	NO		NO	bb
7	7 180115M2_7	Standard	12.500	1.52	9706.659	11470.707	10.578	13.6	8.6	NO		NO	bb
8	8 180115M2_8	Standard	12.500	1.52	9008.640	11668.103	9.651	12.4	-0.9	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.796717

RRF SD: 0.0707195, Relative SD: 8.87636

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 180115M2_1	Standard	12.500	2.48	8868.418	12455.272	8.900	11.2	-10.6	NO		NO	bb
2	2 180115M2_2	Standard	12.500	2.48	10441.303	12561.499	10.390	13.0	4.3	NO		NO	bb
3	3 180115M2_3	Standard	12.500	2.48	13027.811	16767.305	9.712	12.2	-2.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	2.48	11372.540	14101.621	10.081	12.7	1.2	NO		NO	bb
5	5 180115M2_5	Standard	12.500	2.48	11971.679	15840.523	9.447	11.9	-5.1	NO		NO	bb
6	6 180115M2_6	Standard	12.500	2.48	12510.149	16157.200	9.678	12.1	-2.8	NO		NO	bb
7	7 180115M2_7	Standard	12.500	2.48	11201.616	11804.778	11.861	14.9	19.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	2.48	10375.532	13507.876	9.601	12.1	-3.6	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.0950157

RRF SD: 0.00787595, Relative SD: 8.2891

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 180115M2_1	Standard	12.500	2.75	1196.924	12455.272	1.201	12.6	1.1	NO		NO	bb
2	2 180115M2_2	Standard	12.500	2.75	1206.778	12561.499	1.201	12.6	1.1	NO		NO	bb
3	3 180115M2_3	Standard	12.500	2.75	1442.793	16767.305	1.076	11.3	-9.4	NO		NO	bb
4	4 180115M2_4	Standard	12.500	2.75	1290.825	14101.621	1.144	12.0	-3.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	2.75	1432.762	15840.523	1.131	11.9	-4.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	2.75	1624.717	16157.200	1.257	13.2	5.8	NO		NO	bb
7	7 180115M2_7	Standard	12.500	2.75	1307.205	11804.778	1.384	14.6	16.5	NO		NO	bb
8	8 180115M2_8	Standard	12.500	2.75	1197.229	13507.876	1.108	11.7	-6.7	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.636292

RRF SD: 0.0537257, Relative SD: 8.44356

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 180115M2_1	Standard	5.000	3.25	2798.348	12455.272	2.808	4.4	-11.7	NO		NO	bb
2	2 180115M2_2	Standard	5.000	3.25	3301.620	12561.499	3.285	5.2	3.3	NO		NO	bb
3	3 180115M2_3	Standard	5.000	3.25	4246.745	16767.305	3.166	5.0	-0.5	NO		NO	bb
4	4 180115M2_4	Standard	5.000	3.25	3760.921	14101.621	3.334	5.2	4.8	NO		NO	bb
5	5 180115M2_5	Standard	5.000	3.25	3739.436	15840.523	2.951	4.6	-7.2	NO		NO	bb
6	6 180115M2_6	Standard	5.000	3.25	4073.186	16157.200	3.151	5.0	-1.0	NO		NO	bb
7	7 180115M2_7	Standard	5.000	3.25	3489.034	11804.778	3.695	5.8	16.1	NO		NO	bb
8	8 180115M2_8	Standard	5.000	3.24	3308.405	13507.876	3.062	4.8	-3.8	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.620752

RRF SD: 0.0575853, Relative SD: 9.2767

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 180115M2_1	Standard	12.500	3.87	7169.426	12455.272	7.195	11.6	-7.3	NO		NO	bb
2	2 180115M2_2	Standard	12.500	3.87	8300.460	12561.499	8.260	13.3	6.4	NO		NO	bb
3	3 180115M2_3	Standard	12.500	3.87	10064.894	16767.305	7.503	12.1	-3.3	NO		NO	bb
4	4 180115M2_4	Standard	12.500	3.87	8890.794	14101.621	7.881	12.7	1.6	NO		NO	bb
5	5 180115M2_5	Standard	12.500	3.87	8790.349	15840.523	6.937	11.2	-10.6	NO		NO	bb
6	6 180115M2_6	Standard	12.500	3.87	9715.788	16157.200	7.517	12.1	-3.1	NO		NO	bb
7	7 180115M2_7	Standard	12.500	3.87	8726.845	11804.778	9.241	14.9	19.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	3.86	8149.912	13507.876	7.542	12.1	-2.8	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.335817

RRF SD: 0.0498507, Relative SD: 14.8446

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 180115M2_1	Standard	12.500	4.01	793.087	2804.372	3.535	10.5	-15.8	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.01	971.136	3149.166	3.855	11.5	-8.2	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.01	1035.130	3283.306	3.941	11.7	-6.1	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.01	1074.646	3088.549	4.349	13.0	3.6	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.01	1083.133	3535.805	3.829	11.4	-8.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.01	1211.424	3990.885	3.794	11.3	-9.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.01	1067.766	2610.740	5.112	15.2	21.8	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.01	1041.940	2521.238	5.166	15.4	23.1	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.192395

RRF SD: 0.0380277, Relative SD: 19.7655

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 180115M2_1	Standard	12.500	4.33	1703.521	11387.326	1.870	9.7	-22.2	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.33	2145.071	12172.035	2.203	11.4	-8.4	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.33	2487.351	13726.202	2.265	11.8	-5.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.33	2144.726	13300.389	2.016	10.5	-16.2	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.33	2742.800	12814.540	2.675	13.9	11.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.33	2540.768	15285.250	2.078	10.8	-13.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.33	2945.466	11556.618	3.186	16.6	32.5	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.32	2820.117	11963.216	2.947	15.3	22.5	NO		NO	bb

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Compound name: 13C2-PFOA

Response Factor: 1.00125

RRF SD: 0.0485388, Relative SD: 4.84783

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 180115M2_1	Standard	12.500	4.38	11129.100	11387.326	12.217	12.2	-2.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.39	12054.782	12172.035	12.380	12.4	-1.1	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.39	13949.129	13726.202	12.703	12.7	1.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.38	13294.508	13300.389	12.494	12.5	-0.2	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.38	12417.951	12814.540	12.113	12.1	-3.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.38	15251.905	15285.250	12.473	12.5	-0.3	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.38	12829.036	11556.618	13.876	13.9	10.9	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.38	11359.297	11963.216	11.869	11.9	-5.2	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.810837

RRF SD: 0.0778338, Relative SD: 9.59919

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 180115M2_1	Standard	12.500	4.81	8611.178	9887.708	10.886	13.4	7.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.82	10629.969	14541.915	9.137	11.3	-9.8	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.81	11370.316	15659.906	9.076	11.2	-10.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.81	11056.825	14165.005	9.757	12.0	-3.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.81	13849.589	14881.775	11.633	14.3	14.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.81	12422.833	16690.238	9.304	11.5	-8.2	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.81	10235.261	11566.101	11.062	13.6	9.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.81	10065.815	12301.464	10.228	12.6	0.9	NO		NO	bb

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Compound name: 13C8-PFOSA

Response Factor: 0.196454

RRF SD: 0.0326291, Relative SD: 16.609

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 180115M2_1	Standard	12.500	4.88	2018.146	9597.051	2.629	13.4	7.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.88	2450.537	12232.438	2.504	12.7	2.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.88	3263.926	16108.975	2.533	12.9	3.1	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.88	2580.329	15359.841	2.100	10.7	-14.5	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.87	2747.783	14601.564	2.352	12.0	-4.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.88	3176.006	14430.306	2.751	14.0	12.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.88	2461.930	10068.811	3.056	15.6	24.5	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.87	1976.078	14359.005	1.720	8.8	-29.9	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 0.861518

RRF SD: 0.080099, Relative SD: 9.29742

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 180115M2_1	Standard	12.500	4.89	2273.944	3065.292	9.273	10.8	-13.9	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.89	2945.228	3701.104	9.947	11.5	-7.6	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.89	3464.374	4167.454	10.391	12.1	-3.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.89	3222.043	3259.616	12.356	14.3	14.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.89	2939.392	3538.393	10.384	12.1	-3.6	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.89	3461.071	3917.062	11.045	12.8	2.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.89	2933.493	3367.256	10.890	12.6	1.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.89	2455.447	2586.616	11.866	13.8	10.2	NO		NO	bb

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Compound name: 13C2-PFDA

Response Factor: 0.995958

RRF SD: 0.0416295, Relative SD: 4.17985

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 180115M2_1	Standard	12.500	5.19	9117.220	8643.550	13.185	13.2	5.9	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.19	9259.429	9573.944	12.089	12.1	-2.9	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.19	10469.260	10839.729	12.073	12.1	-3.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.18	11543.967	11526.396	12.519	12.6	0.6	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.18	10095.664	10211.842	12.358	12.4	-0.7	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.19	10322.235	10477.224	12.315	12.4	-1.1	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.19	8868.471	9388.578	11.808	11.9	-5.2	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.18	9834.333	9278.257	13.249	13.3	6.4	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.102966

RRF SD: 0.0196885, Relative SD: 19.1214

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 180115M2_1	Standard	12.500	5.16	1084.677	12455.272	1.089	10.6	-15.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.16	1447.292	12561.499	1.440	14.0	11.9	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.16	2016.216	16767.305	1.503	14.6	16.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.16	1733.439	14101.621	1.537	14.9	19.4	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.16	1179.393	15840.523	0.931	9.0	-27.7	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.16	1581.232	16157.200	1.223	11.9	-5.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.16	1661.151	11804.778	1.759	17.1	36.7	NO		NO	bbX
8	8 180115M2_8	Standard	12.500	5.16	1868.278	13507.876	1.729	16.8	34.3	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.339955

RRF SD: 0.0639138, Relative SD: 18.8007

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 180115M2_1	Standard	12.500	5.33	3668.057	9597.051	4.778	14.1	12.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.33	4068.198	12232.438	4.157	12.2	-2.2	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.33	4941.718	16108.975	3.835	11.3	-9.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.33	4259.577	15359.841	3.466	10.2	-18.4	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.33	4700.651	14601.564	4.024	11.8	-5.3	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.33	4734.263	14430.306	4.101	12.1	-3.5	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.33	4812.376	10068.811	5.974	17.6	40.6	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.33	4204.535	14359.005	3.660	10.8	-13.9	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.376804

RRF SD: 0.0581665, Relative SD: 15.4368

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 180115M2_1	Standard	12.500	5.49	4291.856	9597.051	5.590	14.8	18.7	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.49	4807.261	12232.438	4.912	13.0	4.3	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.49	5925.357	16108.975	4.598	12.2	-2.4	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.48	4489.890	15359.841	3.654	9.7	-22.4	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.48	5242.137	14601.564	4.488	11.9	-4.7	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.48	5935.848	14430.306	5.142	13.6	9.2	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.48	4444.999	10068.811	5.518	14.6	17.2	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.48	4340.295	14359.005	3.778	10.0	-19.8	NO		NO	bb

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Compound name: 13C2-PFUDa

Response Factor: 0.943561

RRF SD: 0.166868, Relative SD: 17.6849

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 180115M2_1	Standard	12.500	5.51	10659.157	9597.051	13.883	14.7	17.7	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.51	12827.074	12232.438	13.108	13.9	11.1	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.51	14368.888	16108.975	11.150	11.8	-5.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.50	12801.493	15359.841	10.418	11.0	-11.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.50	11208.095	14601.564	9.595	10.2	-18.6	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.51	13602.793	14430.306	11.783	12.5	-0.1	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.50	12174.631	10068.811	15.114	16.0	28.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.50	10688.771	14359.005	9.305	9.9	-21.1	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.726172

RRF SD: 0.138899, Relative SD: 19.1275

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 180115M2_1	Standard	12.500	5.79	6851.029	9597.051	8.923	12.3	-1.7	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.79	8538.500	12232.438	8.725	12.0	-3.9	NO		NO	MM
3	3 180115M2_3	Standard	12.500	5.79	10789.430	16108.975	8.372	11.5	-7.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.78	9022.085	15359.841	7.342	10.1	-19.1	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.78	10734.802	14601.564	9.190	12.7	1.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.78	12215.312	14430.306	10.581	14.6	16.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.78	9999.913	10068.811	12.414	17.1	36.8	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.78	8119.767	14359.005	7.069	9.7	-22.1	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.118962

RRF SD: 0.0169862, Relative SD: 14.2787

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 180115M2_1	Standard	150.000	5.86	15969.864	9597.051	20.800	174.9	16.6	NO		NO	bb
2	2 180115M2_2	Standard	150.000	5.86	17622.953	12232.438	18.008	151.4	0.9	NO		NO	bb
3	3 180115M2_3	Standard	150.000	5.86	21395.508	16108.975	16.602	139.6	-7.0	NO		NO	bb
4	4 180115M2_4	Standard	150.000	5.86	18699.383	15359.841	15.218	127.9	-14.7	NO		NO	bb
5	5 180115M2_5	Standard	150.000	5.86	19396.660	14601.564	16.605	139.6	-6.9	NO		NO	bb
6	6 180115M2_6	Standard	150.000	5.86	21606.223	14430.306	18.716	157.3	4.9	NO		NO	bb
7	7 180115M2_7	Standard	150.000	5.86	17688.914	10068.811	21.960	184.6	23.1	NO		NO	bb
8	8 180115M2_8	Standard	150.000	5.86	17051.773	14359.005	14.844	124.8	-16.8	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.371352

RRF SD: 0.056833, Relative SD: 15.3043

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 180115M2_1	Standard	12.500	6.24	3811.400	9597.051	4.964	13.4	6.9	NO		NO	bb
2	2 180115M2_2	Standard	12.500	6.24	4625.902	12232.438	4.727	12.7	1.8	NO		NO	bb
3	3 180115M2_3	Standard	12.500	6.24	5784.110	16108.975	4.488	12.1	-3.3	NO		NO	bb
4	4 180115M2_4	Standard	12.500	6.23	4166.997	15359.841	3.391	9.1	-26.9	NO		NO	MM
5	5 180115M2_5	Standard	12.500	6.23	5054.189	14601.564	4.327	11.7	-6.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	6.24	5187.430	14430.306	4.494	12.1	-3.2	NO		NO	MM
7	7 180115M2_7	Standard	12.500	6.23	4785.019	10068.811	5.940	16.0	28.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	6.23	5518.160	14359.005	4.804	12.9	3.5	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.17355

RRF SD: 0.0236433, Relative SD: 13.6233

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 180115M2_1	Standard	150.000	6.21	23192.393	9597.051	30.208	174.1	16.0	NO		NO	bb
2	2 180115M2_2	Standard	150.000	6.22	25547.748	12232.438	26.107	150.4	0.3	NO		NO	bb
3	3 180115M2_3	Standard	150.000	6.21	31434.623	16108.975	24.392	140.5	-6.3	NO		NO	bb
4	4 180115M2_4	Standard	150.000	6.21	27705.471	15359.841	22.547	129.9	-13.4	NO		NO	bb
5	5 180115M2_5	Standard	150.000	6.21	28494.203	14601.564	24.393	140.6	-6.3	NO		NO	bb
6	6 180115M2_6	Standard	150.000	6.22	32255.756	14430.306	27.941	161.0	7.3	NO		NO	bb
7	7 180115M2_7	Standard	150.000	6.22	25211.236	10068.811	31.299	180.3	20.2	NO		NO	bb
8	8 180115M2_8	Standard	150.000	6.21	24552.484	14359.005	21.374	123.2	-17.9	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.559258

RRF SD: 0.111637, Relative SD: 19.9617

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 180115M2_1	Standard	5.000	6.54	2113.428	9597.051	2.753	4.9	-1.6	NO		NO	MM
2	2 180115M2_2	Standard	5.000	6.54	2775.093	12232.438	2.836	5.1	1.4	NO		NO	bb
3	3 180115M2_3	Standard	5.000	6.54	3282.116	16108.975	2.547	4.6	-8.9	NO		NO	MM
4	4 180115M2_4	Standard	5.000	6.54	2733.865	15359.841	2.225	4.0	-20.4	NO		NO	MM
5	5 180115M2_5	Standard	5.000	6.54	2890.199	14601.564	2.474	4.4	-11.5	NO		NO	bb
6	6 180115M2_6	Standard	5.000	6.54	3217.573	14430.306	2.787	5.0	-0.3	NO		NO	bb
7	7 180115M2_7	Standard	5.000	6.54	3292.356	10068.811	4.087	7.3	46.2	NO		NO	MM
8	8 180115M2_8	Standard	5.000	6.54	3057.260	14359.005	2.661	4.8	-4.8	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.179375

RRF SD: 0.0175828, Relative SD: 9.80226

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 180115M2_1	Standard	150.000	6.29	20888.145	9597.051	27.206	151.7	1.1	NO		NO	bb
2	2 180115M2_2	Standard	150.000	6.29	26082.570	12232.438	26.653	148.6	-0.9	NO		NO	bb
3	3 180115M2_3	Standard	150.000	6.29	31250.859	16108.975	24.250	135.2	-9.9	NO		NO	bb
4	4 180115M2_4	Standard	150.000	6.29	29842.697	15359.841	24.286	135.4	-9.7	NO		NO	bb
5	5 180115M2_5	Standard	150.000	6.29	30325.629	14601.564	25.961	144.7	-3.5	NO		NO	bb
6	6 180115M2_6	Standard	150.000	6.29	35709.676	14430.306	30.933	172.4	15.0	NO		NO	bb
7	7 180115M2_7	Standard	150.000	6.29	24759.139	10068.811	30.737	171.4	14.2	NO		NO	bb
8	8 180115M2_8	Standard	150.000	6.29	28975.107	14359.005	25.224	140.6	-6.3	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.159689

RRF SD: 0.0235867, Relative SD: 14.7704

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 180115M2_1	Standard	150.000	6.44	22450.639	9597.051	29.242	183.1	22.1	NO		NO	bd
2	2 180115M2_2	Standard	150.000	6.45	21303.693	12232.438	21.770	136.3	-9.1	NO		NO	bb
3	3 180115M2_3	Standard	150.000	6.44	31097.133	16108.975	24.130	151.1	0.7	NO		NO	bb
4	4 180115M2_4	Standard	150.000	6.44	27869.063	15359.841	22.680	142.0	-5.3	NO		NO	bb
5	5 180115M2_5	Standard	150.000	6.44	27858.053	14601.564	23.849	149.3	-0.4	NO		NO	bb
6	6 180115M2_6	Standard	150.000	6.44	28613.766	14430.306	24.786	155.2	3.5	NO		NO	bb
7	7 180115M2_7	Standard	150.000	6.45	22170.844	10068.811	27.524	172.4	14.9	NO		NO	bb
8	8 180115M2_8	Standard	150.000	6.44	20270.486	14359.005	17.646	110.5	-26.3	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 180115M2_1	Standard	12.500	1.52	10061.779	10061.779	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	1.52	11662.093	11662.093	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	1.52	14677.296	14677.296	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	1.52	12356.659	12356.659	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	1.52	13477.931	13477.931	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	1.52	14699.104	14699.104	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	1.52	11470.707	11470.707	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	1.52	11668.103	11668.103	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 180115M2_1	Standard	12.500	3.25	12455.272	12455.272	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	3.25	12561.499	12561.499	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	3.25	16767.305	16767.305	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	3.25	14101.621	14101.621	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	3.24	15840.523	15840.523	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	3.25	16157.200	16157.200	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	3.25	11804.778	11804.778	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	3.24	13507.876	13507.876	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 180115M2_1	Standard	12.500	4.01	2804.372	2804.372	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.01	3149.166	3149.166	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.01	3283.306	3283.306	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.01	3088.549	3088.549	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.01	3535.805	3535.805	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.01	3990.885	3990.885	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.01	2610.740	2610.740	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.01	2521.238	2521.238	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 180115M2_1	Standard	12.500	4.38	11387.326	11387.326	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.39	12172.035	12172.035	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.39	13726.202	13726.202	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.38	13300.389	13300.389	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.38	12814.540	12814.540	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.39	15285.250	15285.250	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.38	11556.618	11556.618	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.38	11963.216	11963.216	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 180115M2_1	Standard	12.500	4.81	9887.708	9887.708	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.82	14541.915	14541.915	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.81	15659.906	15659.906	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.81	14165.005	14165.005	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.81	14881.775	14881.775	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.81	16690.238	16690.238	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.81	11566.101	11566.101	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.81	12301.464	12301.464	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 180115M2_1	Standard	12.500	4.89	3065.292	3065.292	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.89	3701.104	3701.104	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.89	4167.454	4167.454	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.89	3259.616	3259.616	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.89	3538.393	3538.393	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.89	3917.062	3917.062	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.89	3367.256	3367.256	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.89	2586.616	2586.616	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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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 180115M2_1	Standard	12.500	5.19	8643.550	8643.550	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.19	9573.944	9573.944	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.19	10839.729	10839.729	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.18	11526.396	11526.396	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.18	10211.842	10211.842	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.19	10477.224	10477.224	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.19	9388.578	9388.578	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.18	9278.257	9278.257	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 180115M2_1	Standard	12.500	5.51	9597.051	9597.051	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.51	12232.438	12232.438	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.51	16108.975	16108.975	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.50	15359.841	15359.841	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.50	14601.564	14601.564	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.51	14430.306	14430.306	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.50	10068.811	10068.811	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.50	14359.005	14359.005	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9972	NO	
2	2 PFPeA	0.9960	NO	
3	3 PFBS	0.9964	NO	
4	4 PFHxA	0.9925	NO	
5	5 PFHpA	0.9954	NO	
6	6 L-PFHxS	0.9997	NO	
7	8 6:2 FTS	0.9954	NO	
8	9 L-PFOA	0.9948	NO	
9	11 PFHpS	0.9990	NO	
10	12 PFNA	0.9983	NO	
11	13 PFOSA	0.9990	NO	
12	14 L-PFOS	0.9977	NO	
13	16 PFDA	0.9967	NO	
14	17 8:2 FTS	0.9909	NO	
15	18 N-MeFOSAA	0.9996	NO	
16	19 N-EtFOSAA	0.9991	NO	
17	20 PFUdA	0.9969	NO	
18	21 PFDS	0.9954	NO	
19	22 PFDoA	0.9964	NO	
20	23 N-MeFOSA	0.9983	NO	
21	24 PFTrDA	0.9972	NO	
22	25 PFTeDA	0.9909	NO	
23	26 N-EtFOSA	0.9987	NO	
24	27 PFHxDA	0.9949	NO	
25	28 PFODA	0.9984	NO	
26	29 N-MeFOSE	0.9957	NO	
27	30 N-EtFOSE	0.9997	NO	
28	31 13C3-PFBA		NO	4.288
29	32 13C3-PFPeA		NO	8.876
30	33 13C3-PFBS		NO	8.289
31	34 13C3-PFHxA		NO	8.444

Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

	# Name	CoD	CoD Flag	%RSD
32	35 13C4-PFHpA		NO	9.277
33	36 18O2-PFHxS		NO	14.845
34	37 13C2-6:2 FTS		NO	19.765
35	38 13C2-PFOA		NO	4.848
36	39 13C5-PFNA		NO	9.599
37	40 13C8-PFOSA		NO	16.609
38	41 13C8-PFOS		NO	9.297
39	42 13C2-PFDA		NO	4.180
40	43 13C2-8:2 FTS		NO	19.121
41	44 d3-N-MeFOSAA		NO	18.801
42	45 d5-N-EtFOSAA		NO	15.437
43	46 13C2-PFUdA		NO	17.685
44	47 13C2-PFDoA		NO	19.128
45	48 d3-N-MeFOSA		NO	14.279
46	49 13C2-PFTeDA		NO	15.304
47	50 d5-N-ETFOSA		NO	13.623
48	51 13C2-PFHxDA		NO	19.962
49	52 d7-N-MeFOSE		NO	9.802
50	53 d9-N-EtFOSE		NO	14.770
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: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

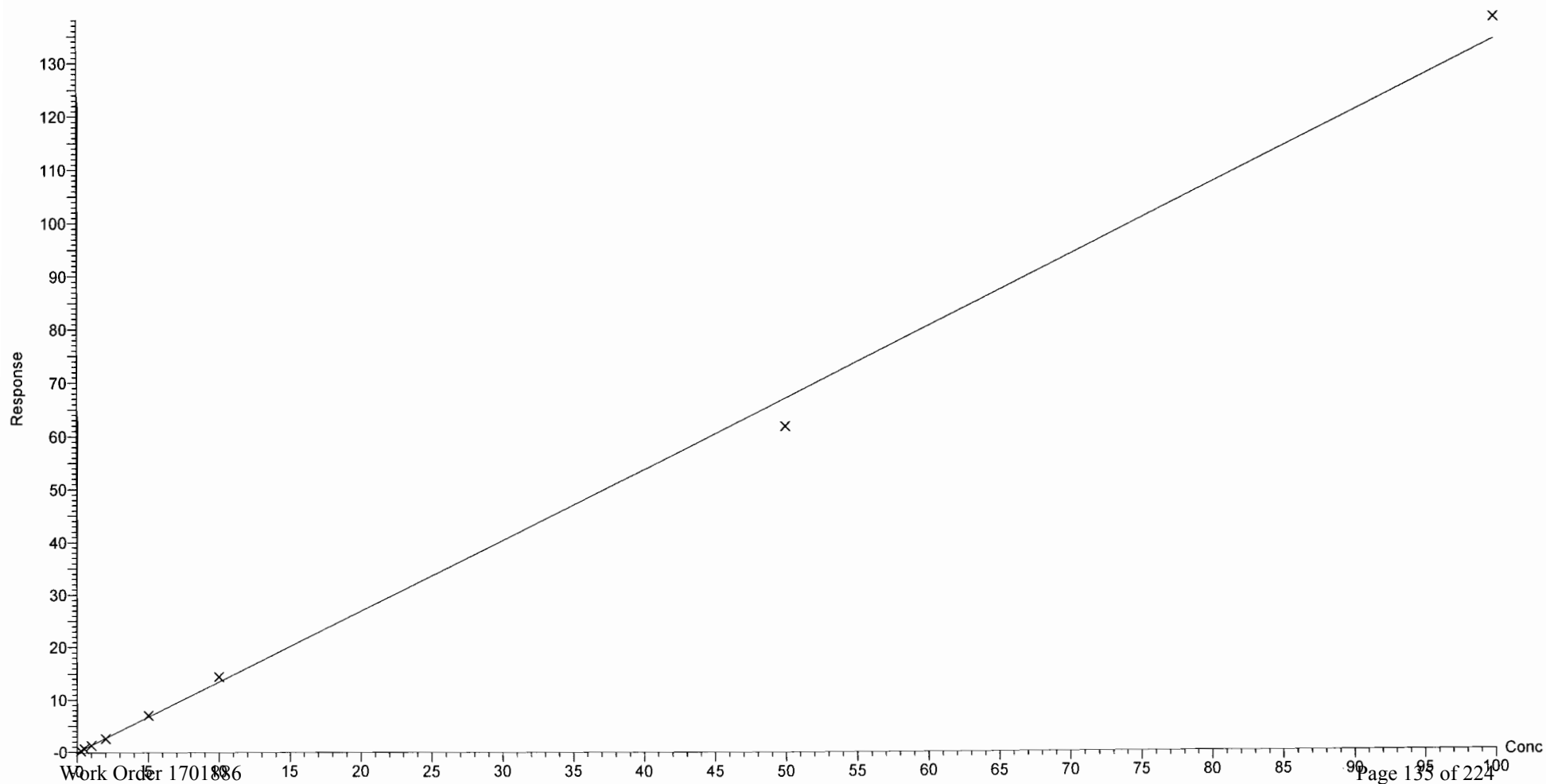
Compound name: PFBA

Correlation coefficient: $r = 0.998579$, $r^2 = 0.997160$

Calibration curve: $1.33977 * x + -0.0328732$

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\180115M2\180115M2-CRV.qld

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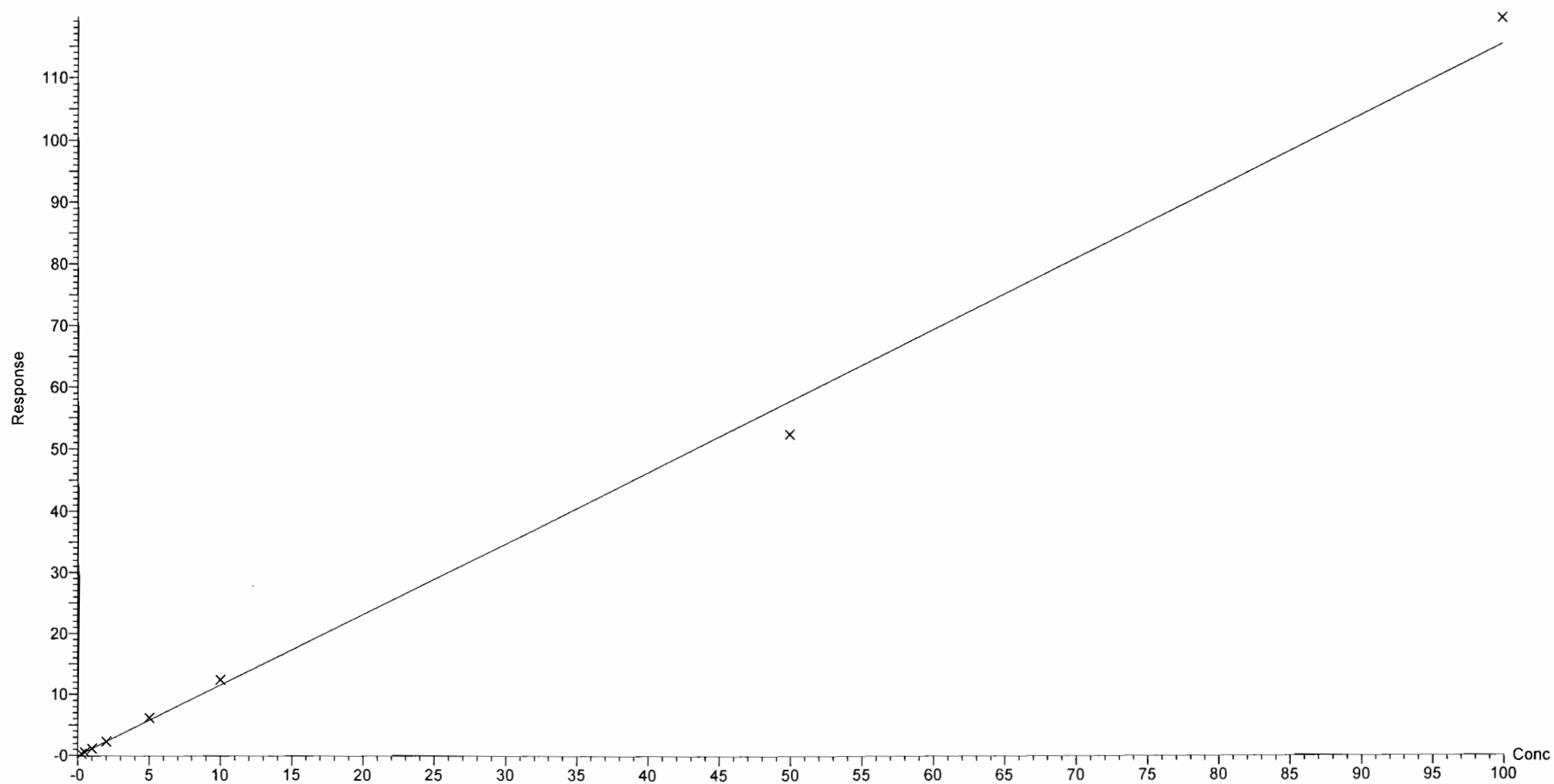
Compound name: PFPeA

Correlation coefficient: $r = 0.997990$, $r^2 = 0.995984$

Calibration curve: $1.15515 * x + -0.0327357$

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\180115M2\180115M2-CRV.qld

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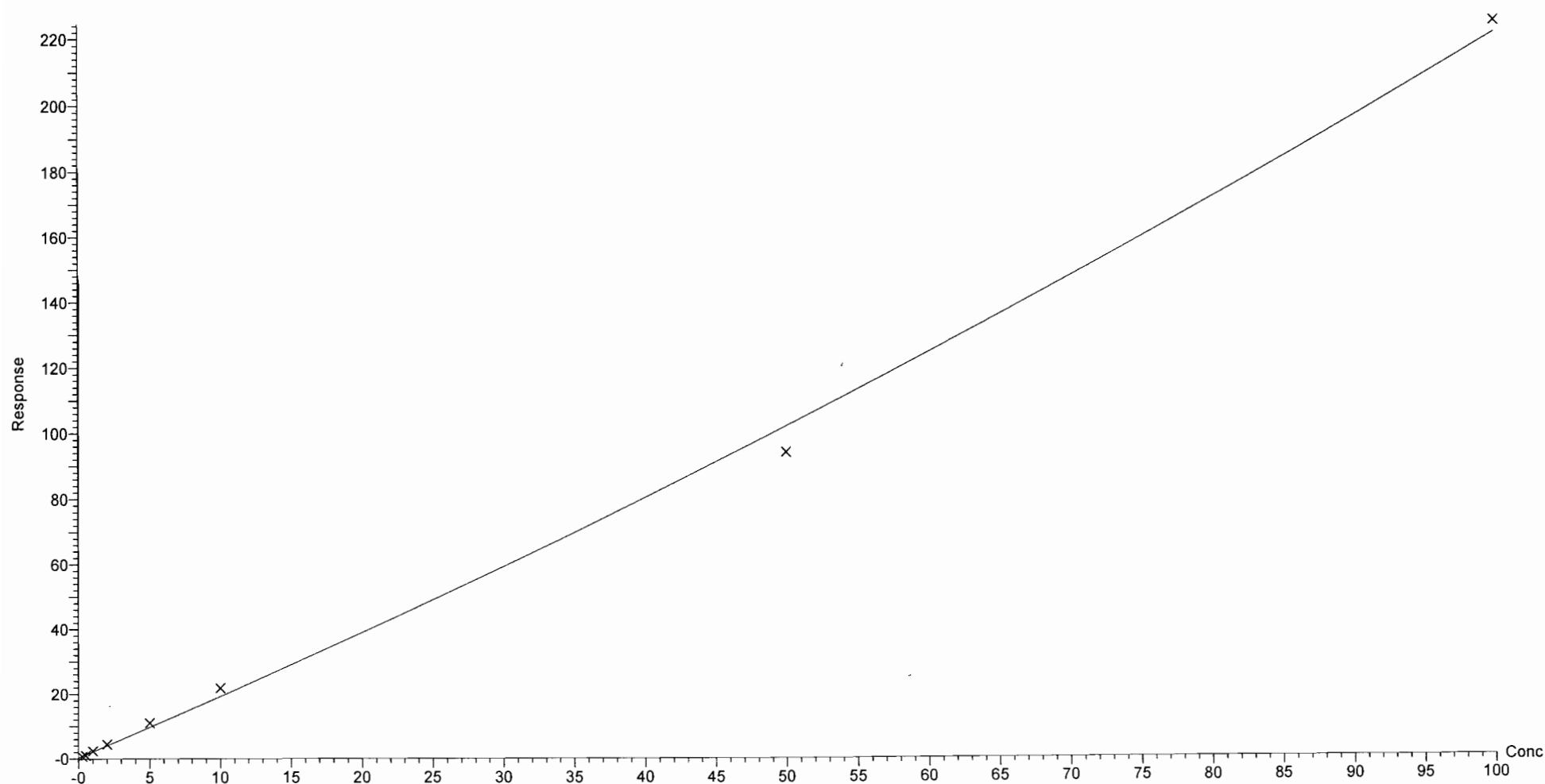
Compound name: PFBS

Coefficient of Determination: $R^2 = 0.996395$

Calibration curve: $0.00351371 * x^2 + 1.85665 * x + 0.254875$

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

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



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Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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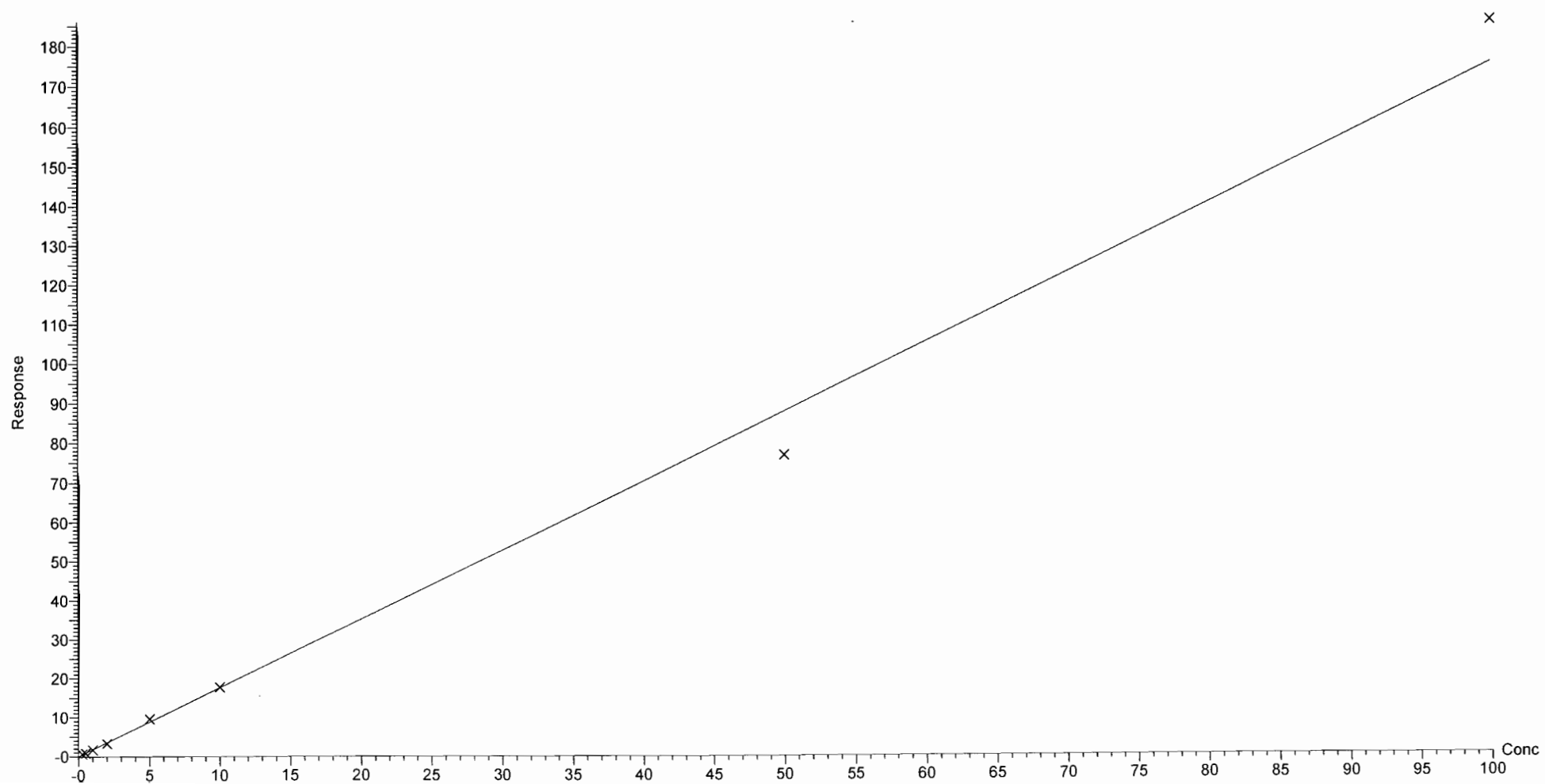
Compound name: PFHxA

Correlation coefficient: $r = 0.996265$, $r^2 = 0.992544$

Calibration curve: $1.75438 * x + 0.0169924$

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\180115M2\180115M2-CRV.qld

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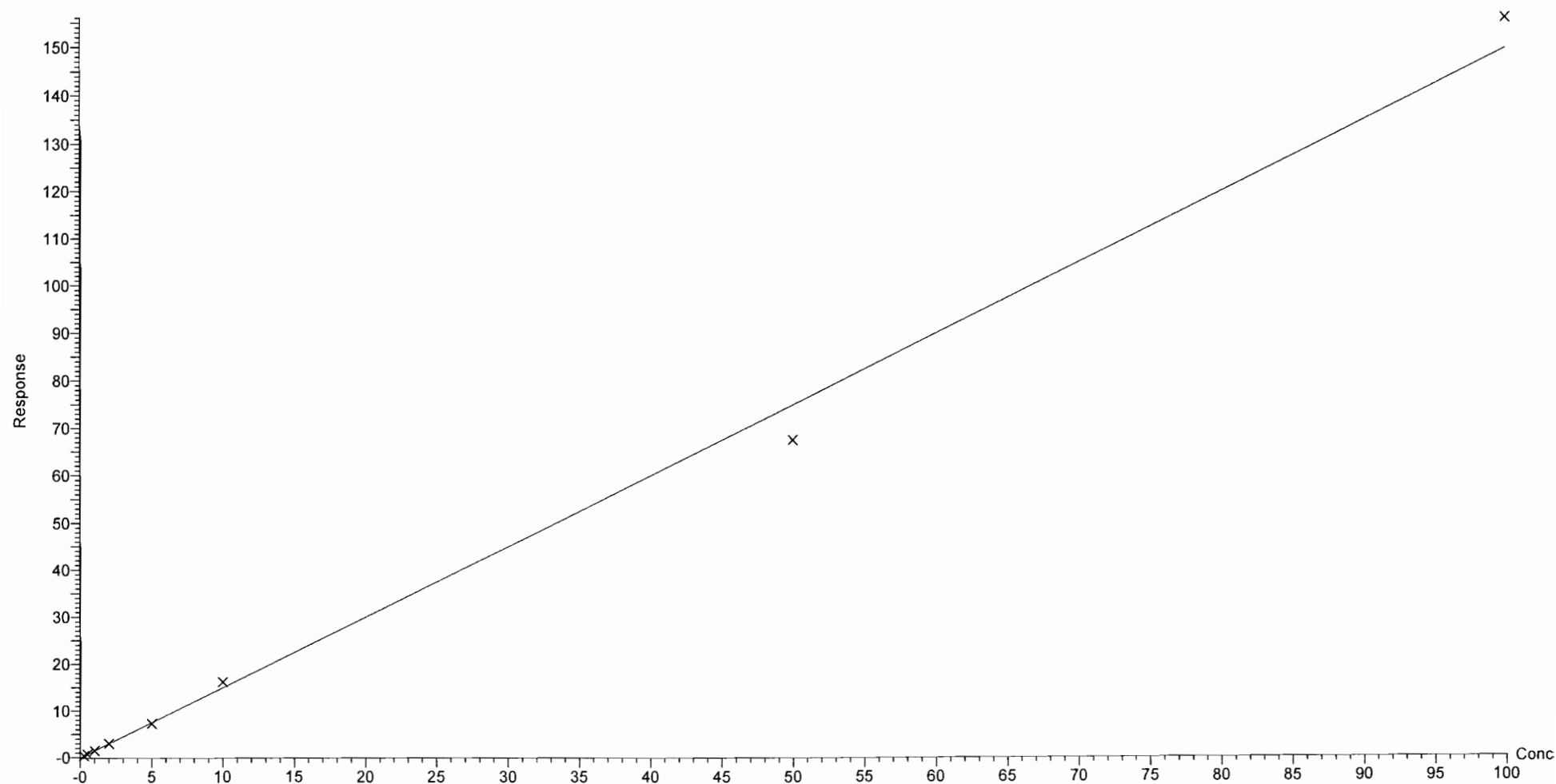
Compound name: PFHpA

Correlation coefficient: $r = 0.997692$, $r^2 = 0.995389$

Calibration curve: $1.49645 * x + -0.0592287$

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\180115M2\180115M2-CRV.qld

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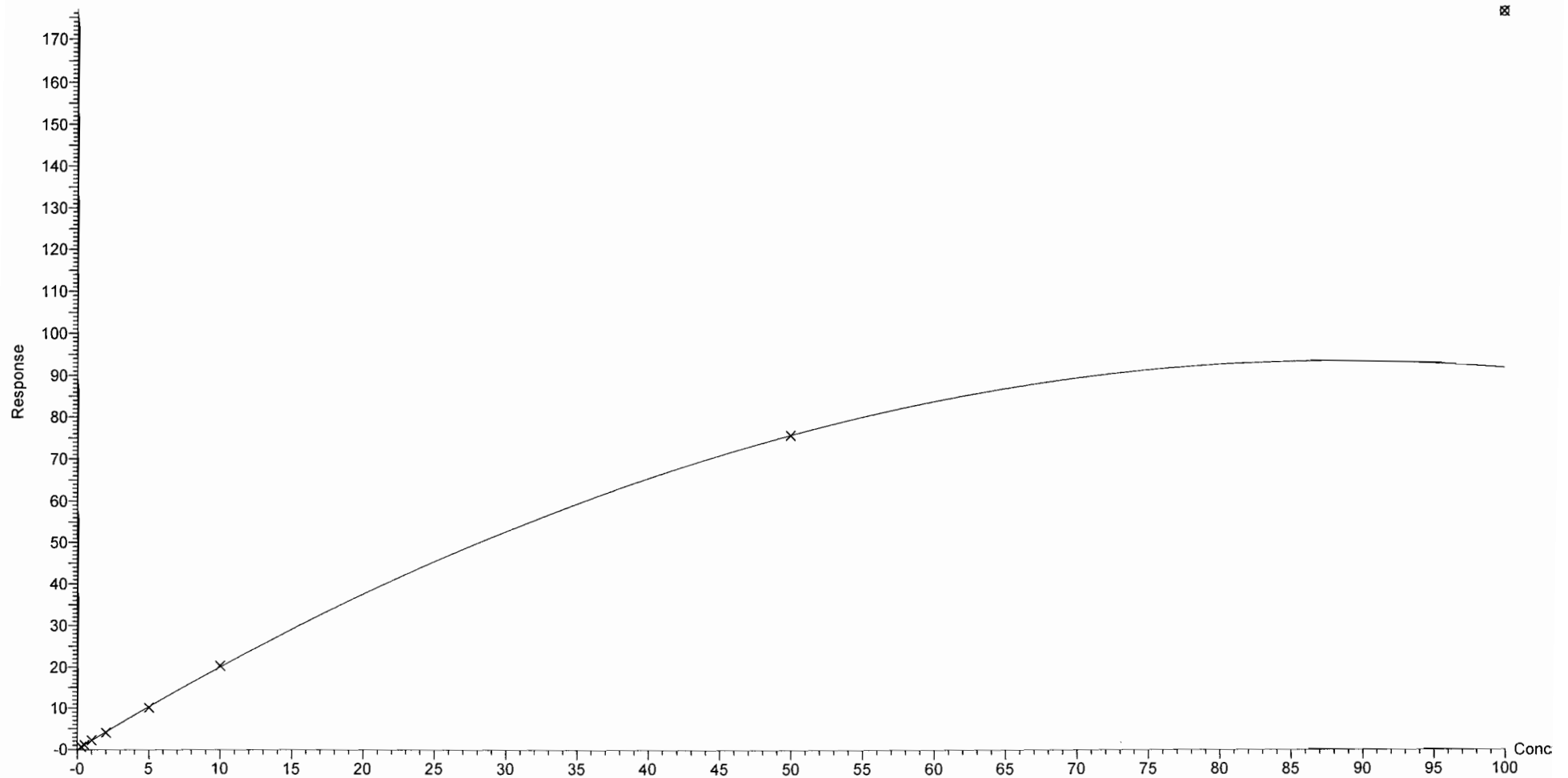
Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.999726$

Calibration curve: $-0.0119577 * x^2 + 2.1128 * x + 0.0383417$

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

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



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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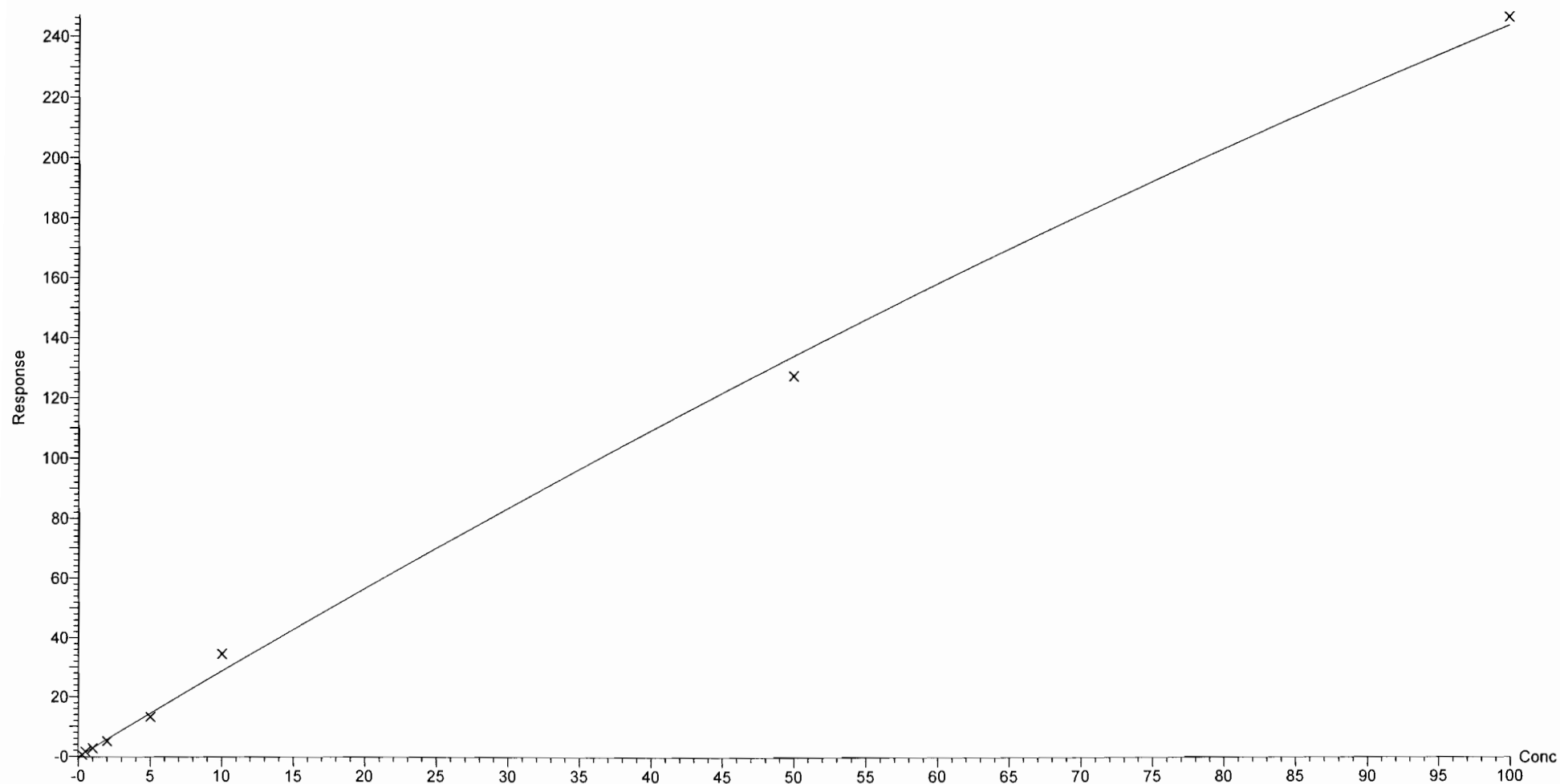
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.995384$

Calibration curve: $-0.00485621 * x^2 + 2.92773 * x + -0.123035$

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

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



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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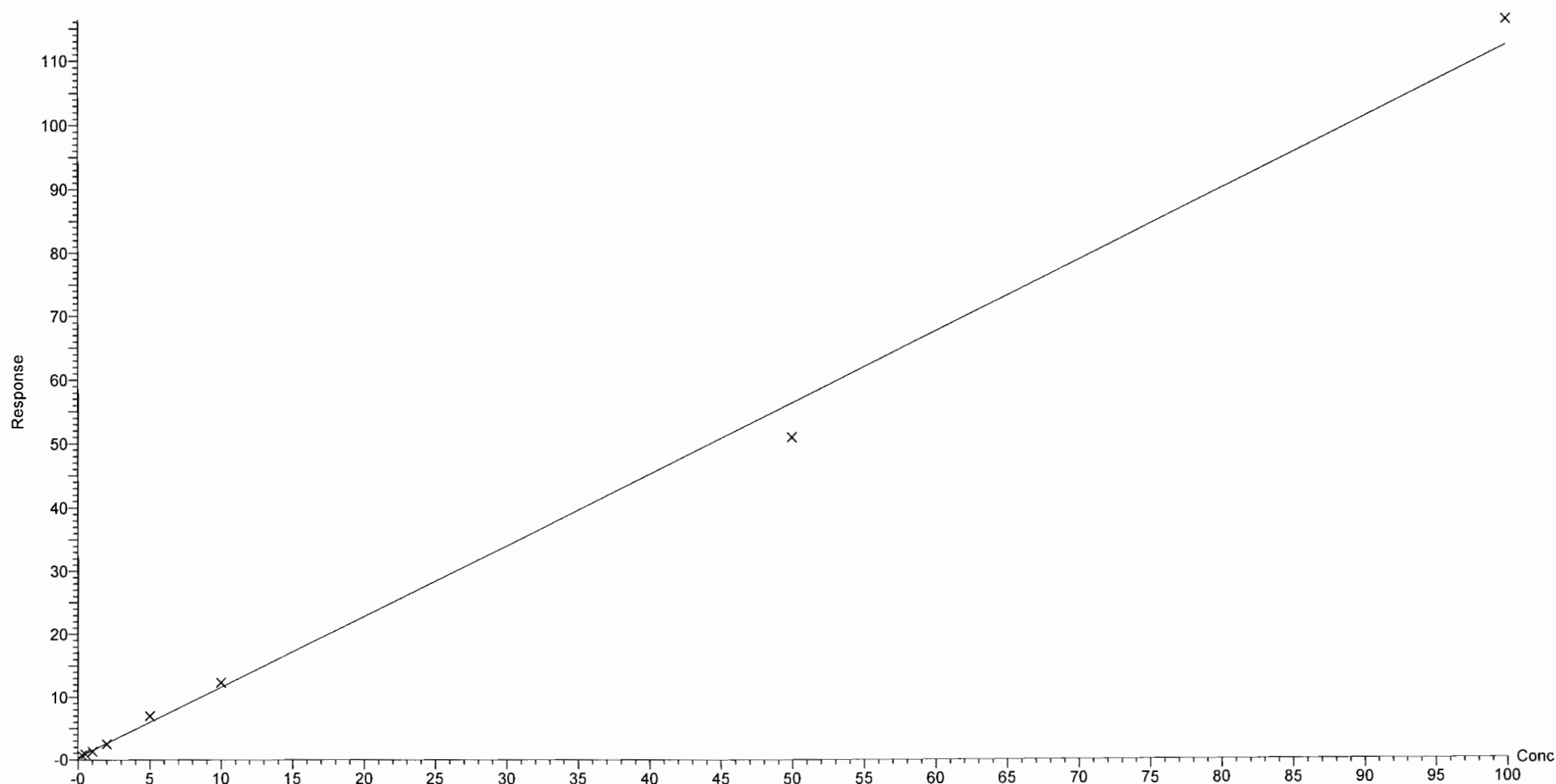
Compound name: L-PFOA

Correlation coefficient: $r = 0.997397$, $r^2 = 0.994801$

Calibration curve: $1.11967 * x + 0.355683$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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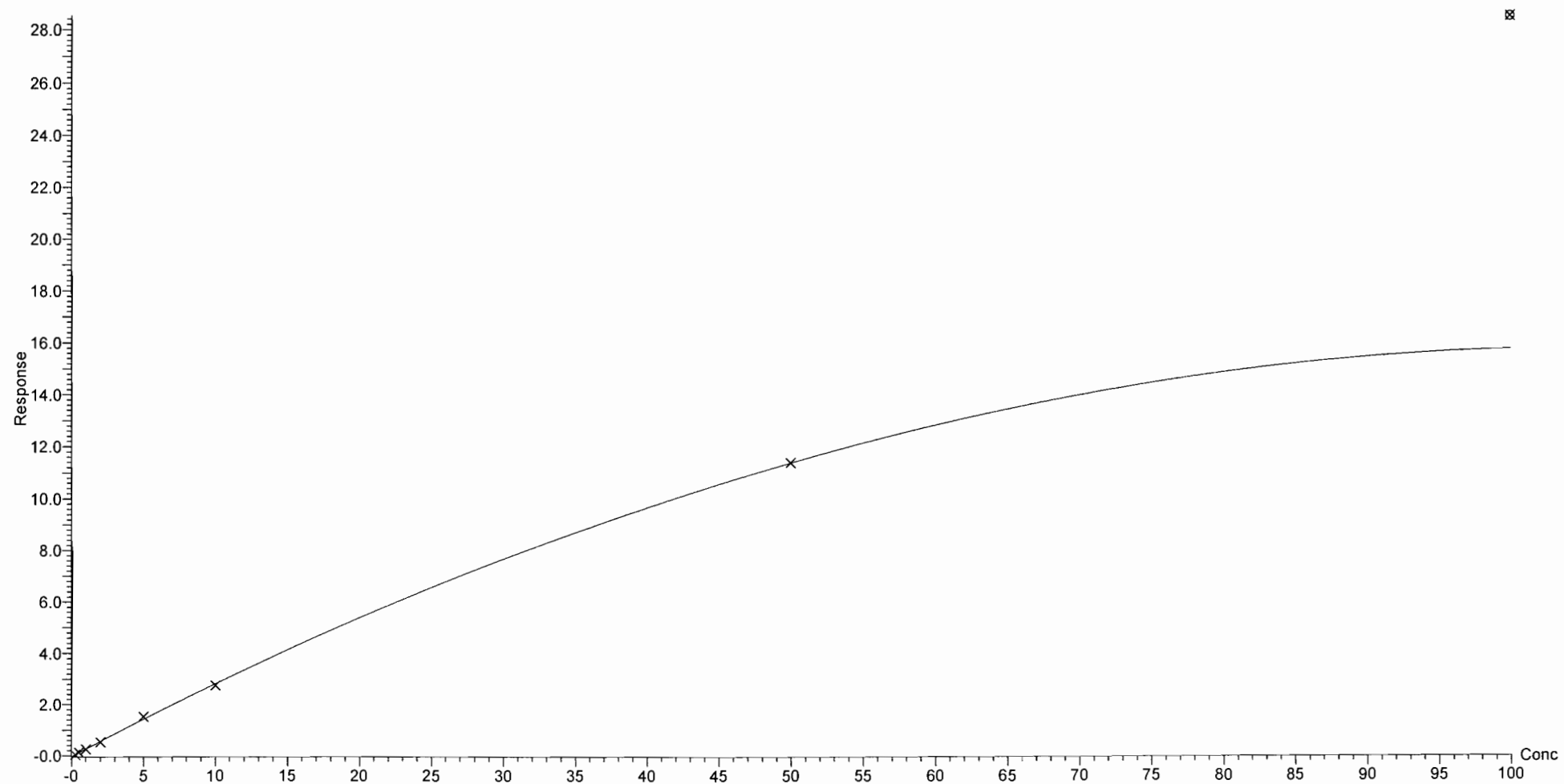
Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.998980$

Calibration curve: $-0.00141138 * x^2 + 0.29869 * x + -0.030036$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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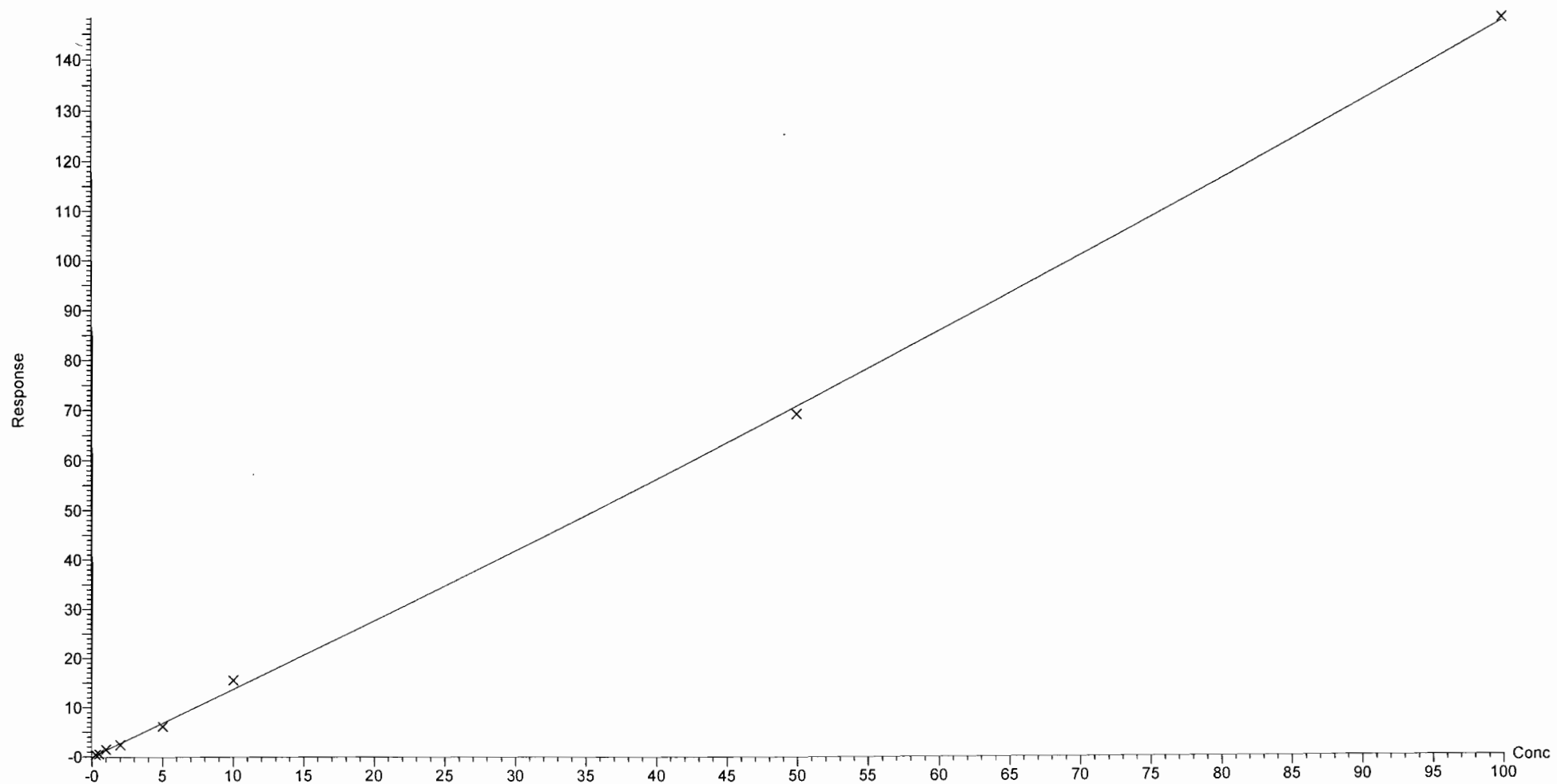
Compound name: PFNA

Coefficient of Determination: $R^2 = 0.998251$

Calibration curve: $0.00123227 * x^2 + 1.35269 * x - 0.0256811$

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

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



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Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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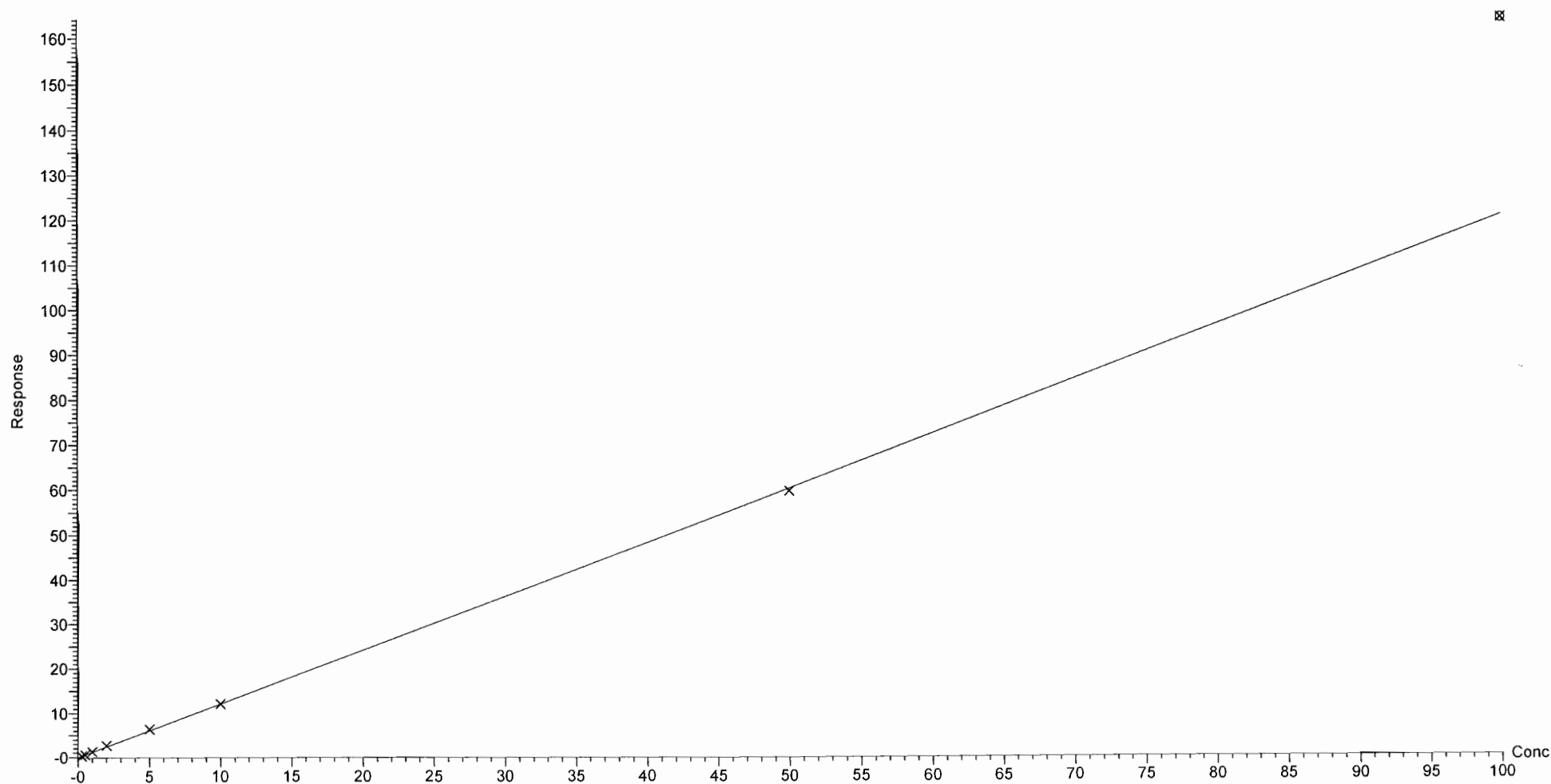
Compound name: PFOSA

Correlation coefficient: $r = 0.999519$, $r^2 = 0.999039$

Calibration curve: $1.2051 * x + -0.0242098$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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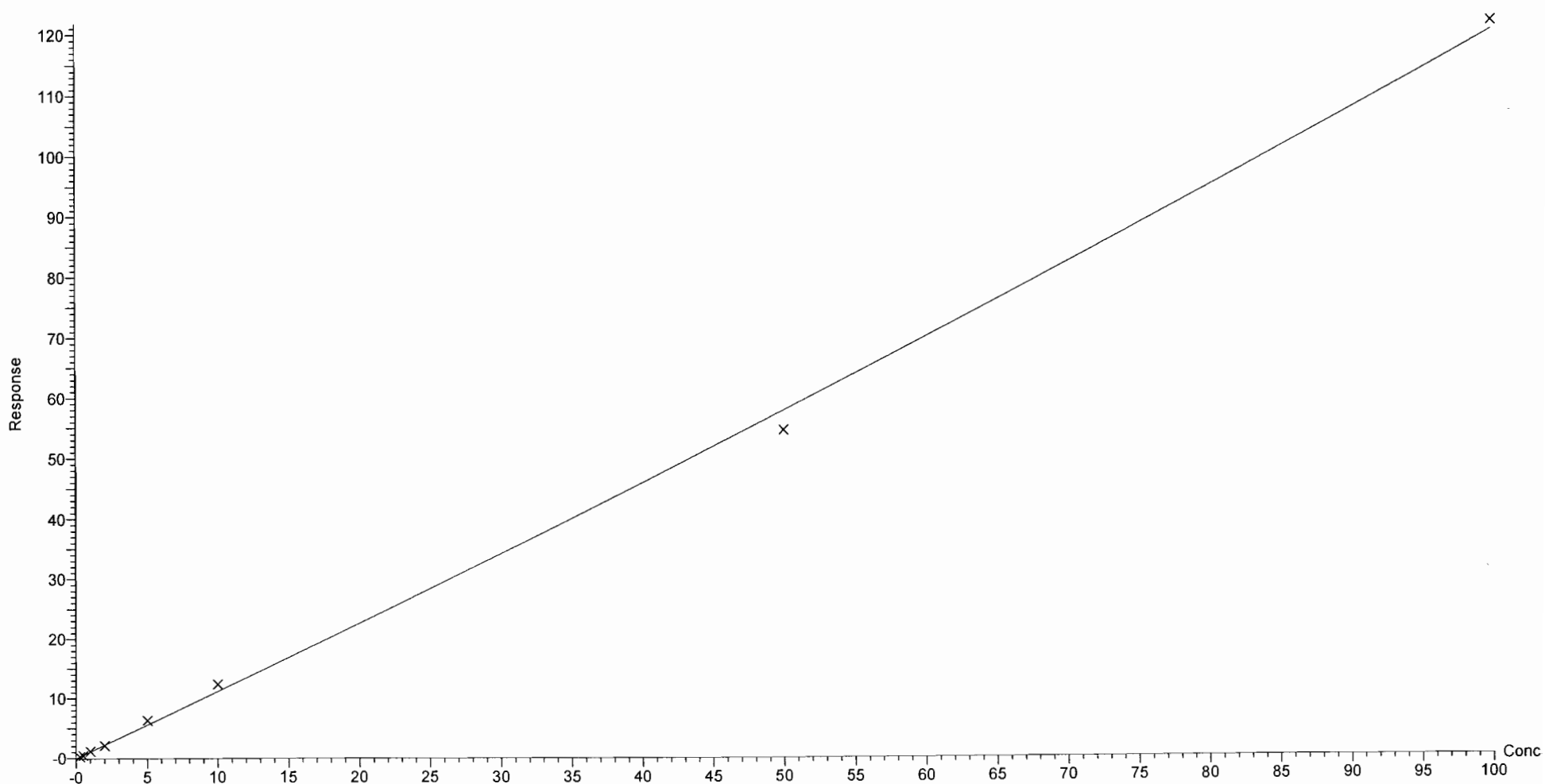
Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.997719$

Calibration curve: $0.000945797 * x^2 + 1.10838 * x - 0.0443788$

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

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



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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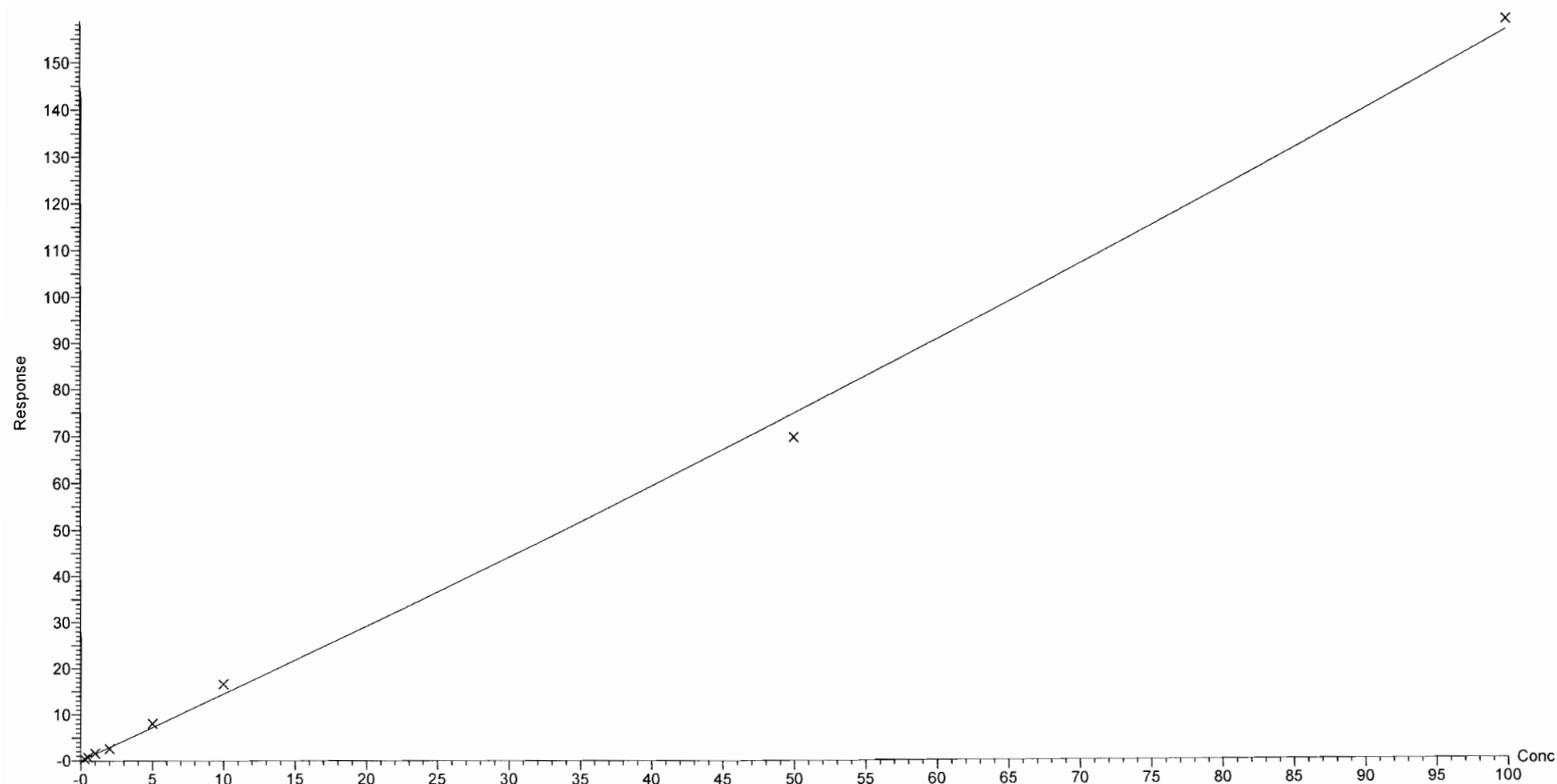
Compound name: PFDA

Coefficient of Determination: $R^2 = 0.996672$

Calibration curve: $0.0014094 * x^2 + 1.42444 * x + 0.0195565$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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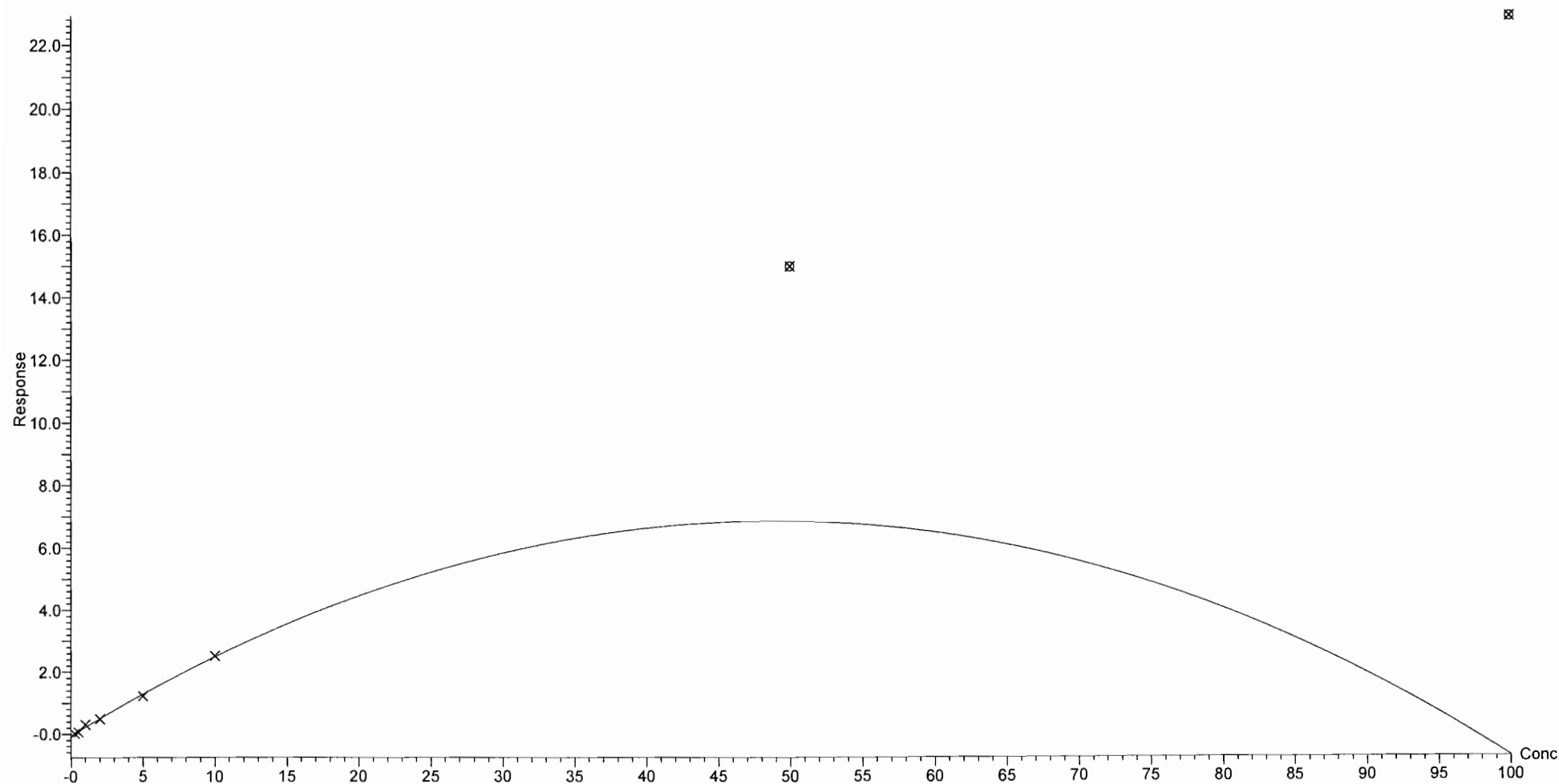
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.990883$

Calibration curve: $-0.00290289 * x^2 + 0.283311 * x - 0.0505687$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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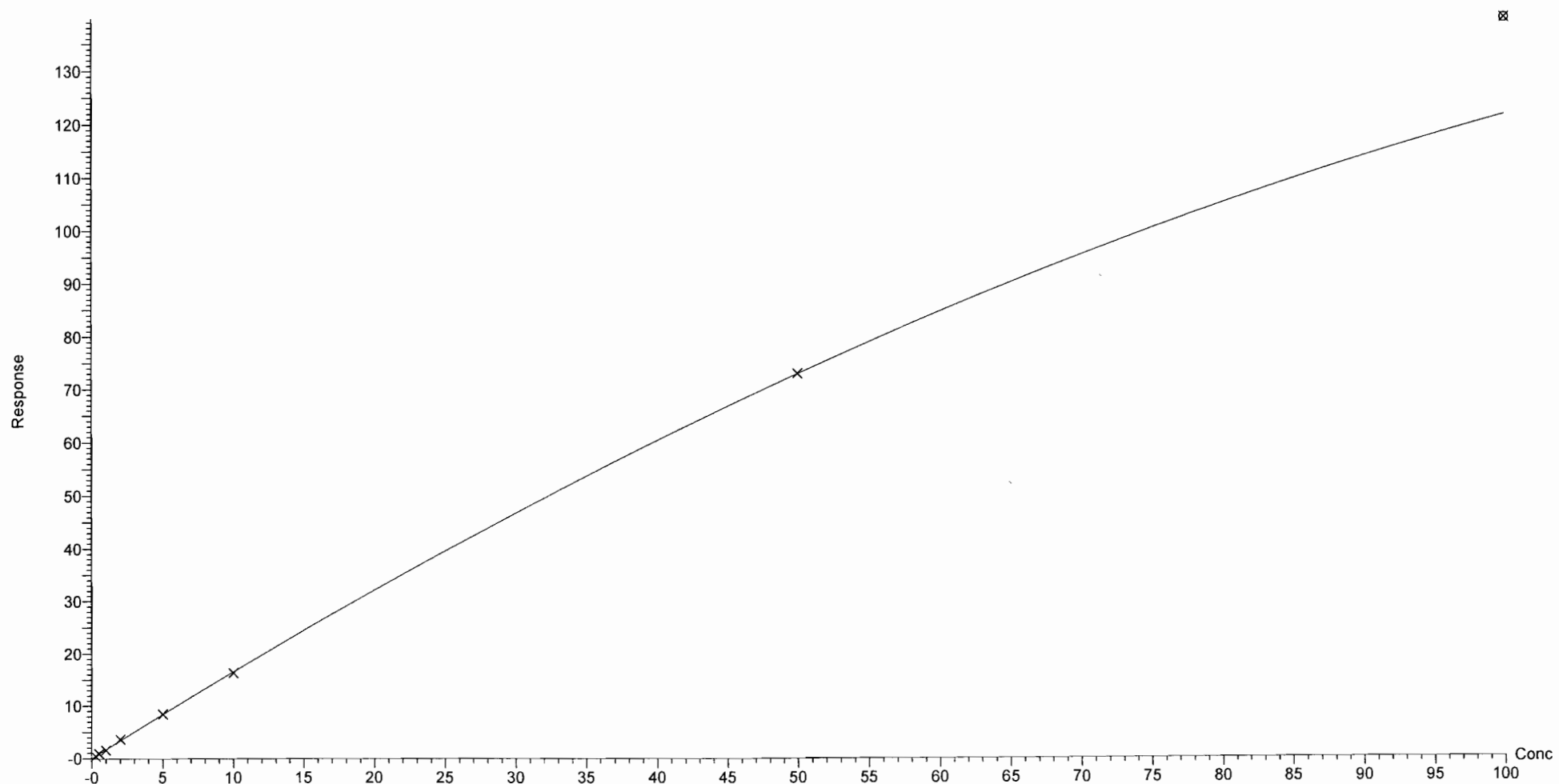
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999579$

Calibration curve: $-0.00488709 * x^2 + 1.70404 * x + -0.0213461$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

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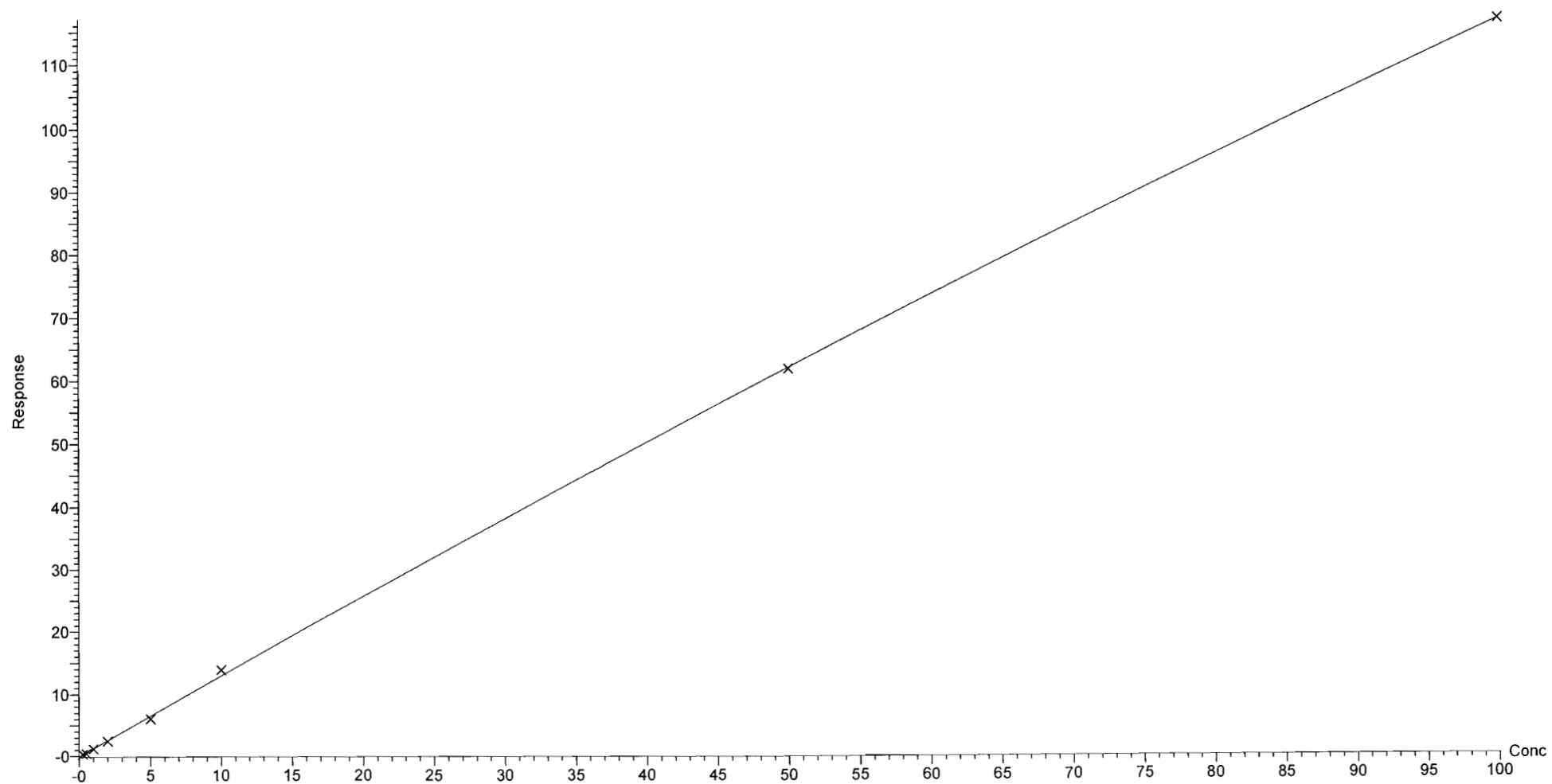
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999053$

Calibration curve: $-0.0014328 * x^2 + 1.31318 * x + -0.0721789$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

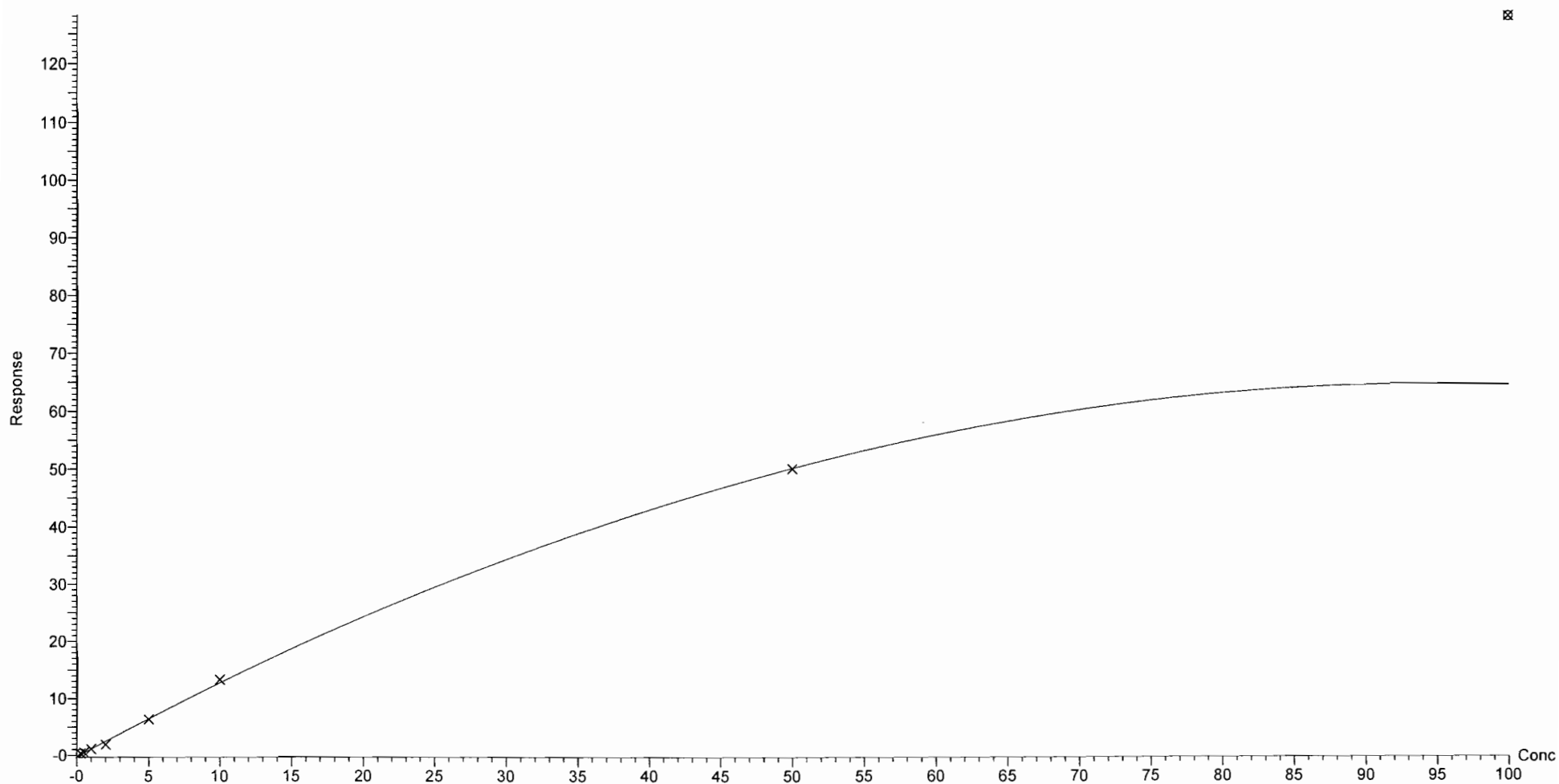
Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.996917$

Calibration curve: $-0.00723799 * x^2 + 1.36957 * x + -0.252476$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

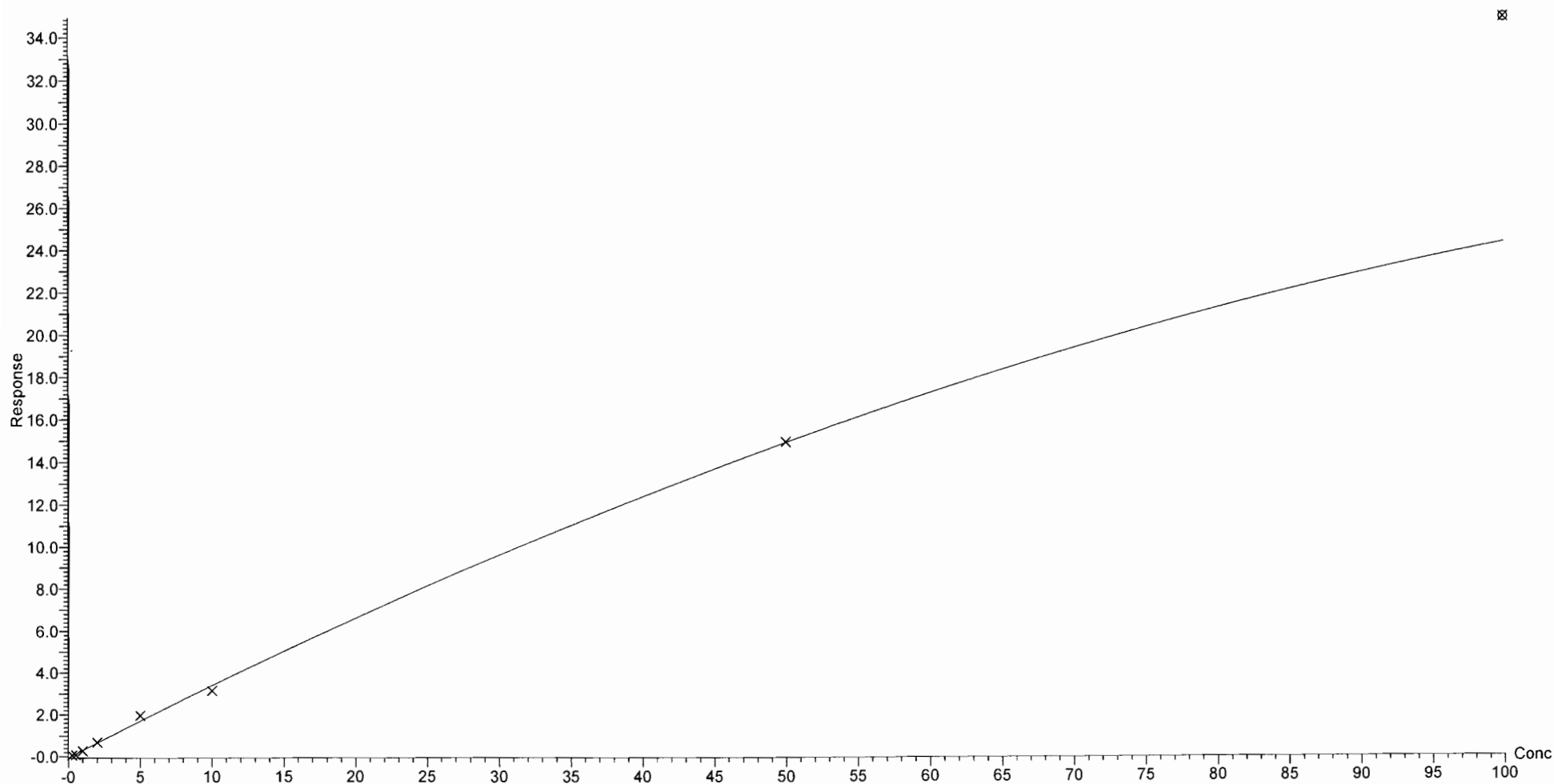
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.995370$

Calibration curve: $-0.00111201 * x^2 + 0.354642 * x + -0.0526574$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

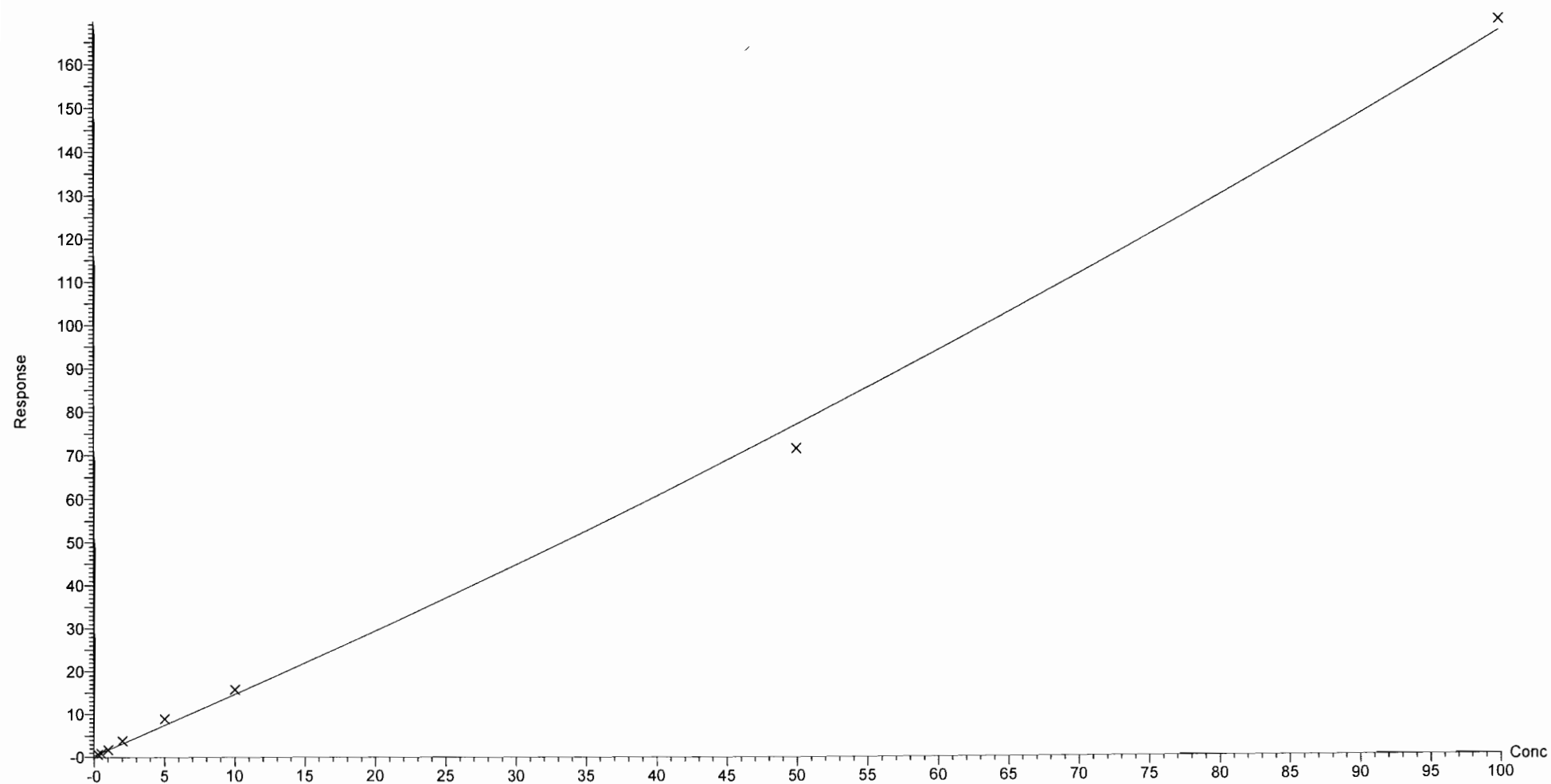
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.996448$

Calibration curve: $0.00269229 * x^2 + 1.39884 * x + 0.292328$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

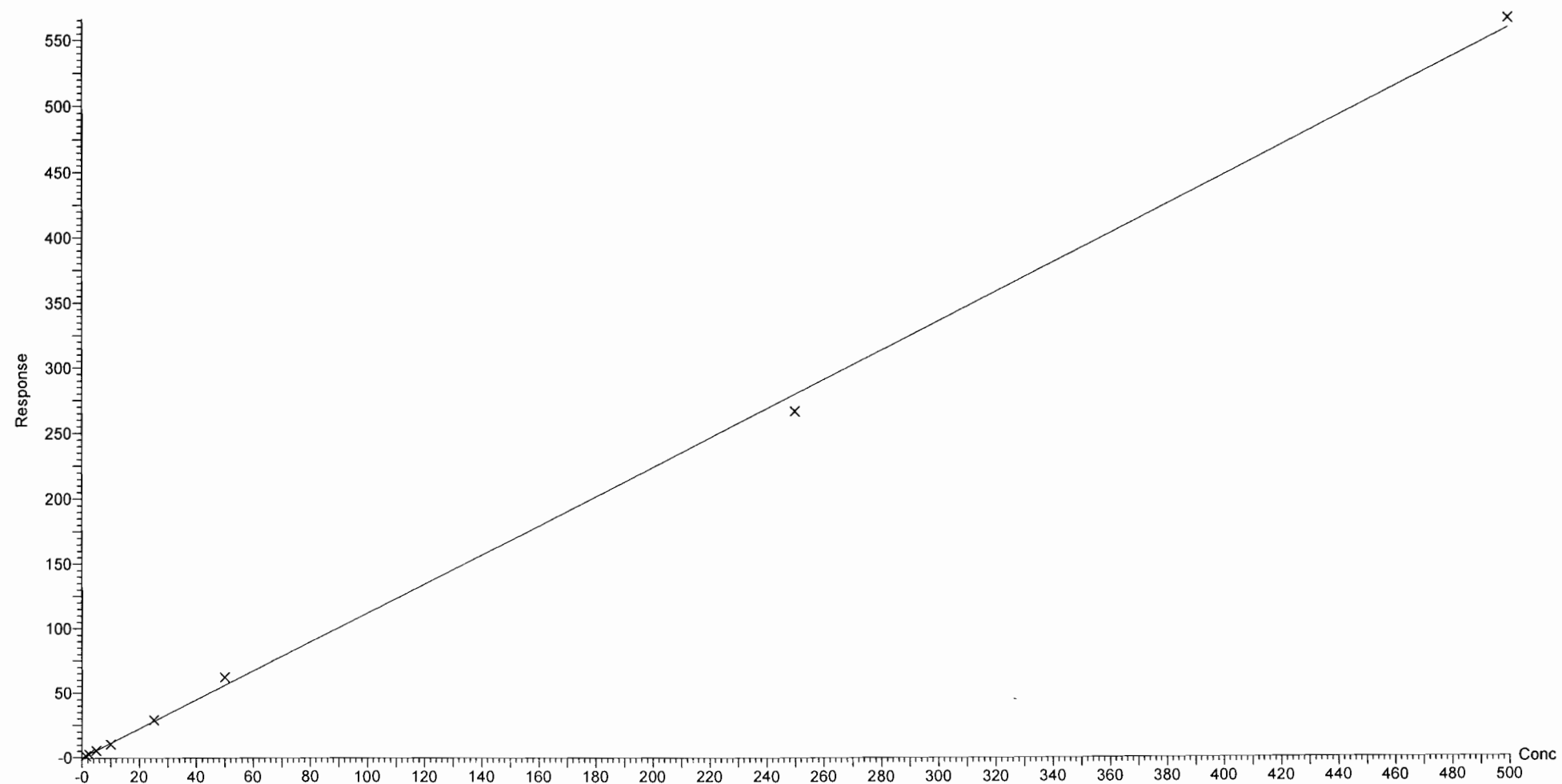
Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999161$, $r^2 = 0.998323$

Calibration curve: $1.1181 * x + -0.100317$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

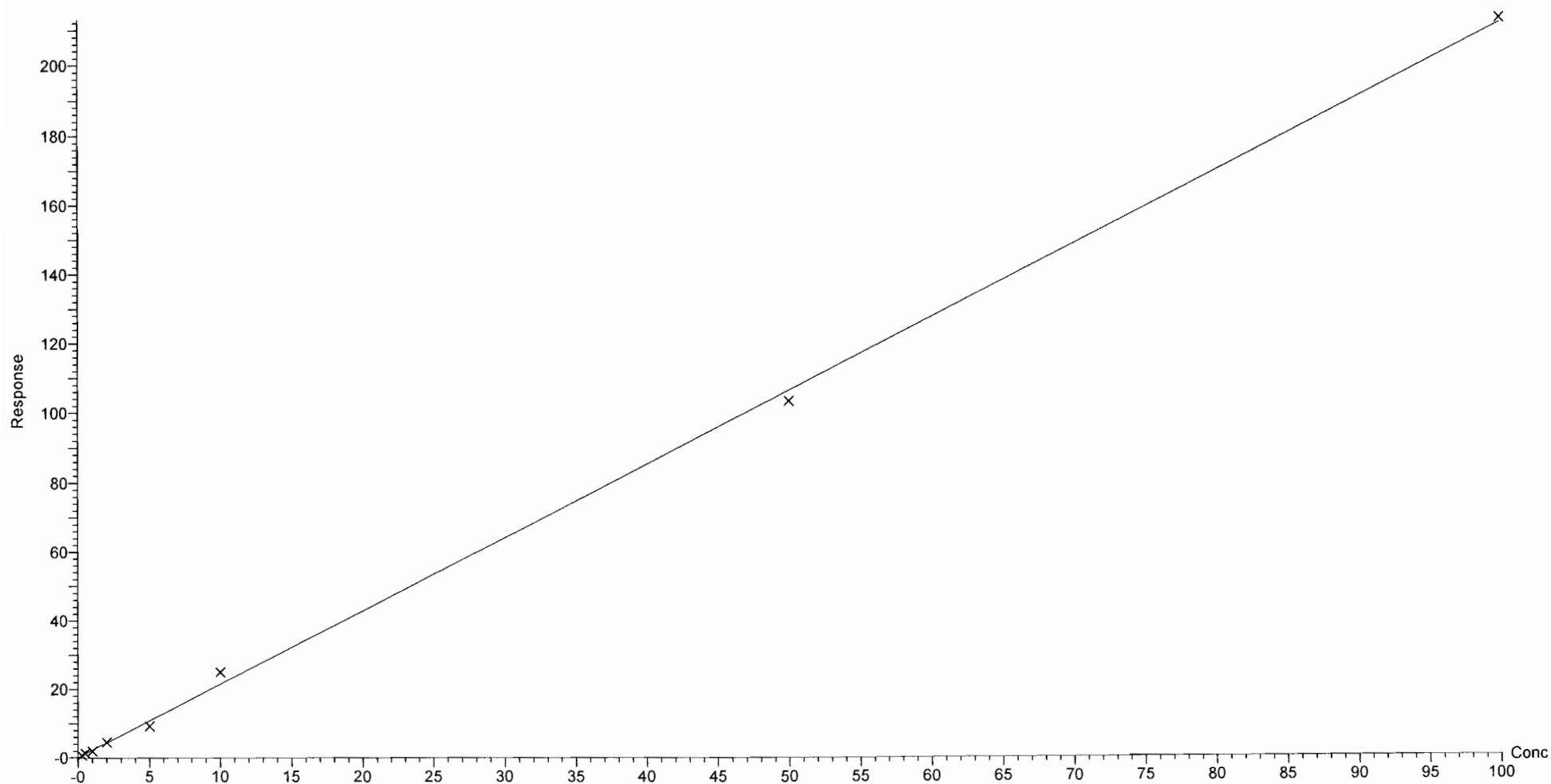
Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.997156$

Calibration curve: $-0.000208194 * x^2 + 2.13661 * x + 0.0644742$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

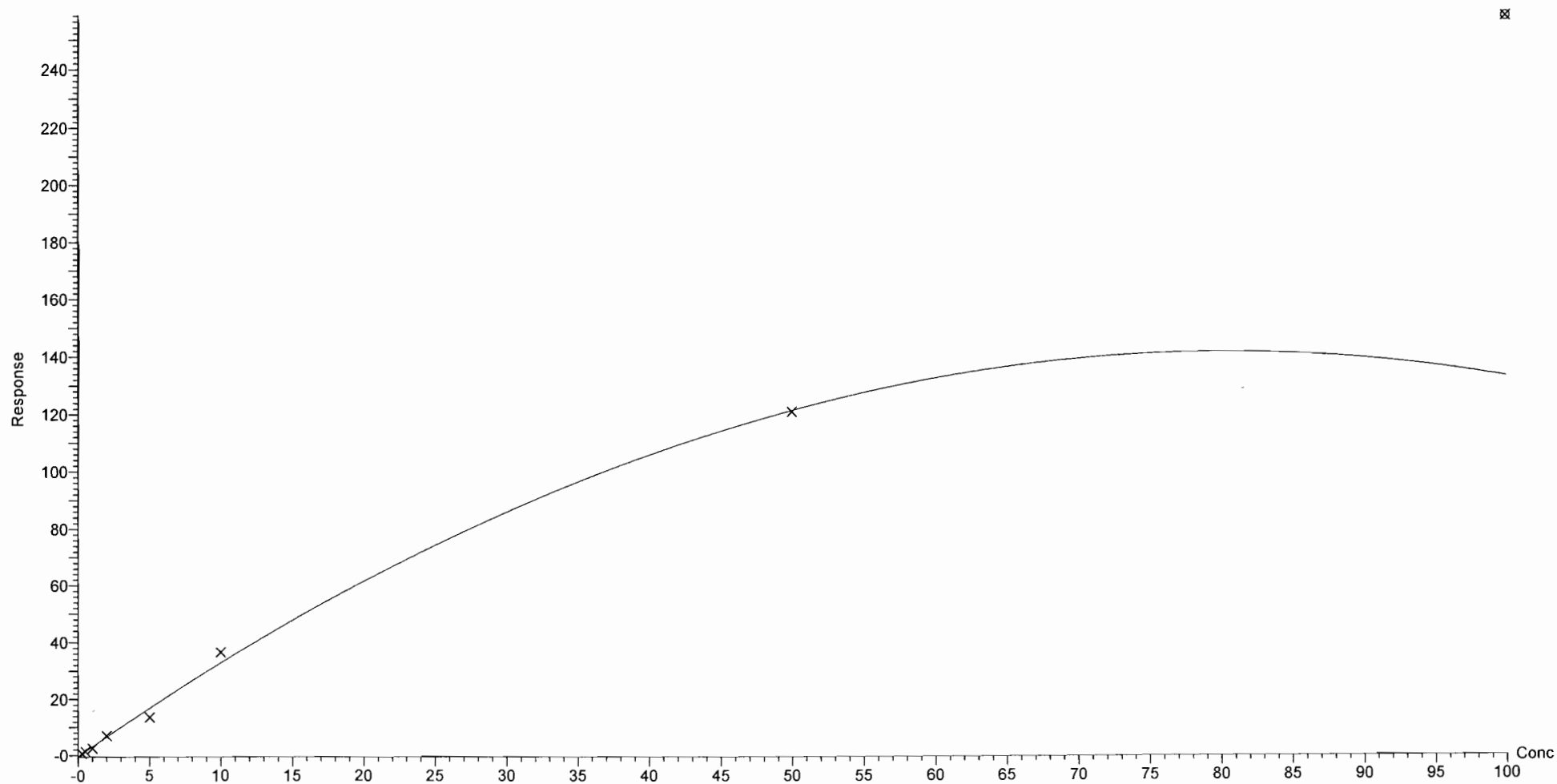
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.990929$

Calibration curve: $-0.0220572 * x^2 + 3.53283 * x + -0.322211$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

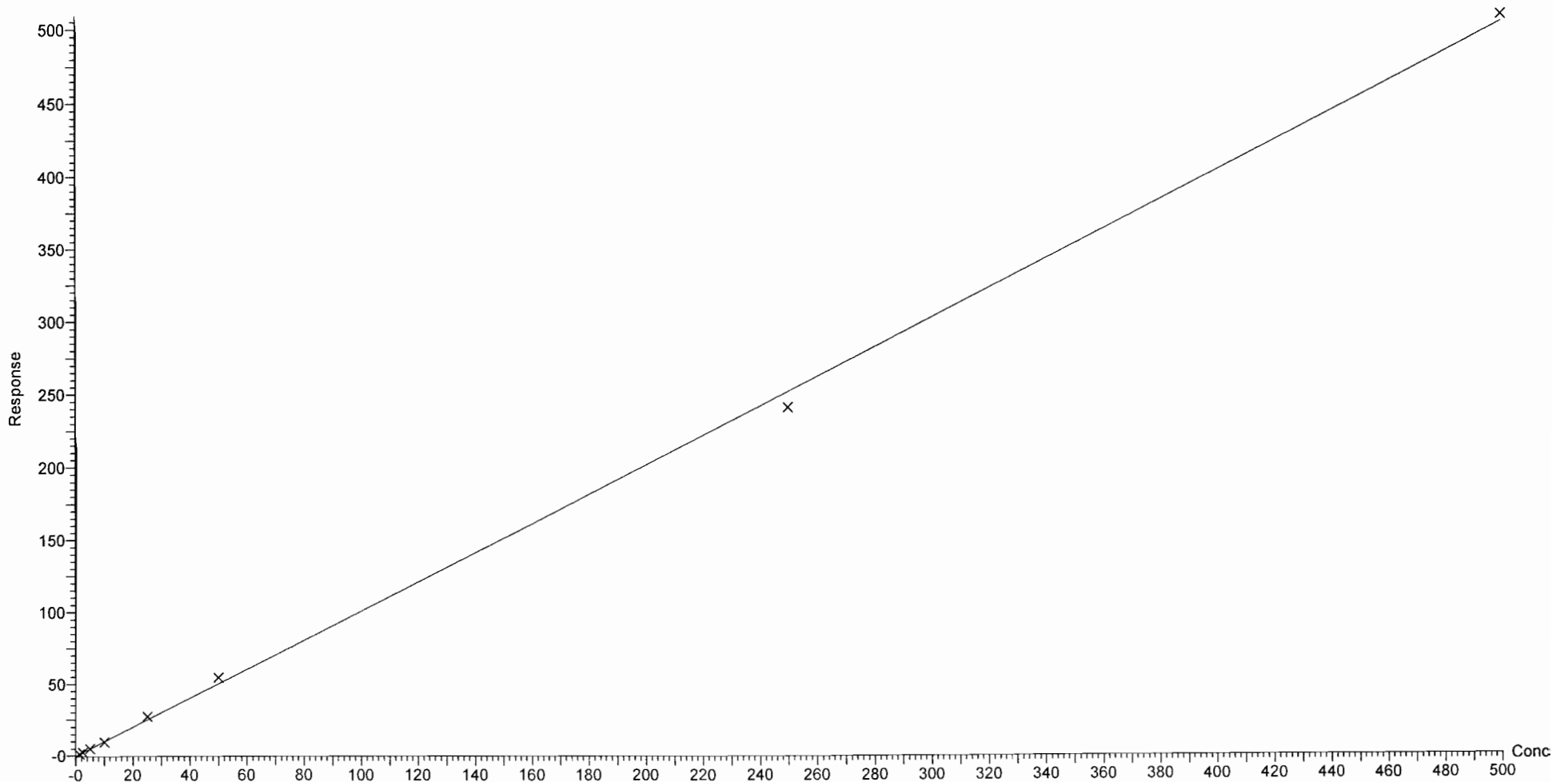
Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.998672$

Calibration curve: $7.78779e-006 * x^2 + 1.00573 * x + -0.161262$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

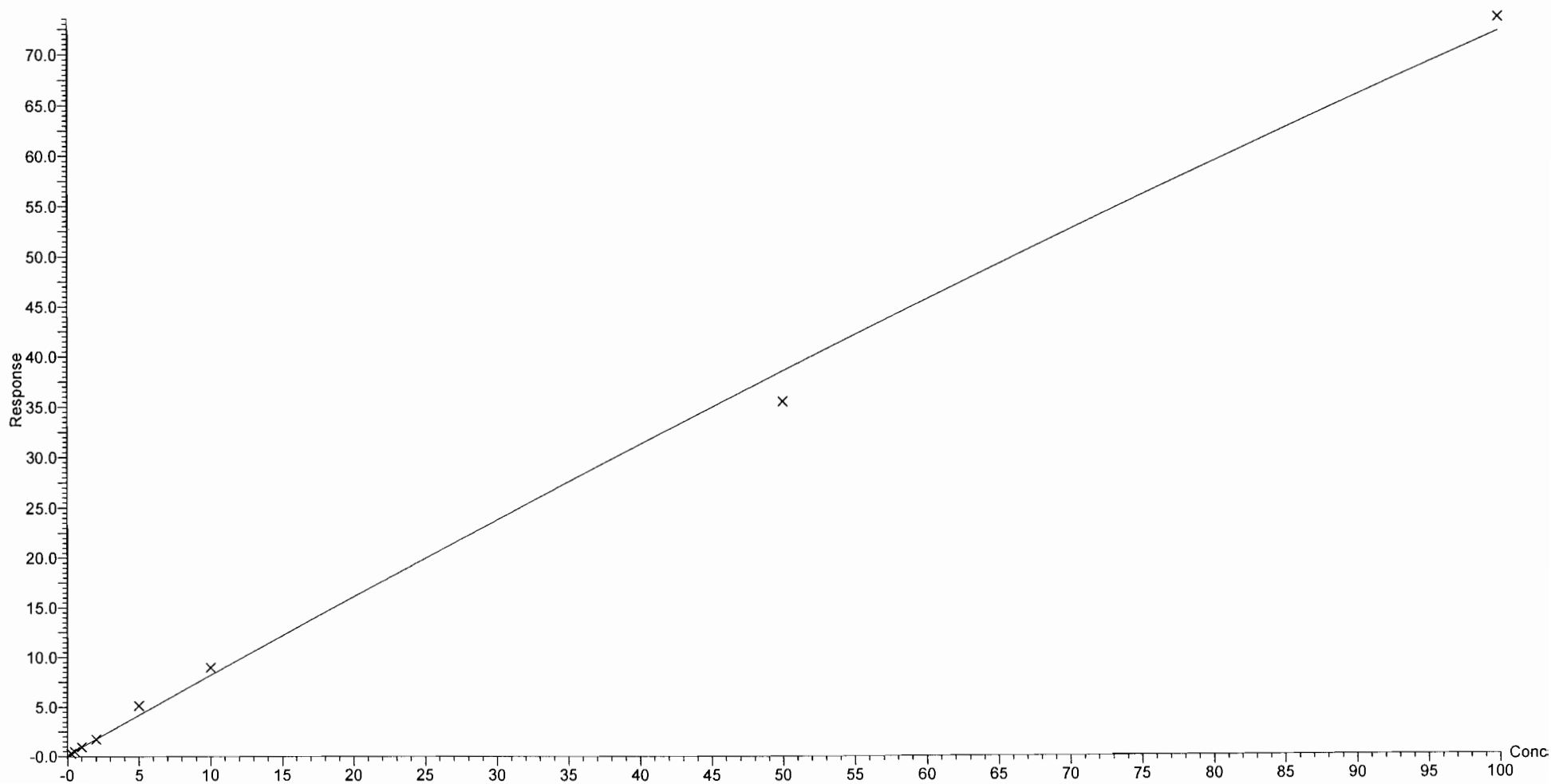
Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.994875$

Calibration curve: $-0.000963947 * x^2 + 0.816406 * x + 0.115618$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

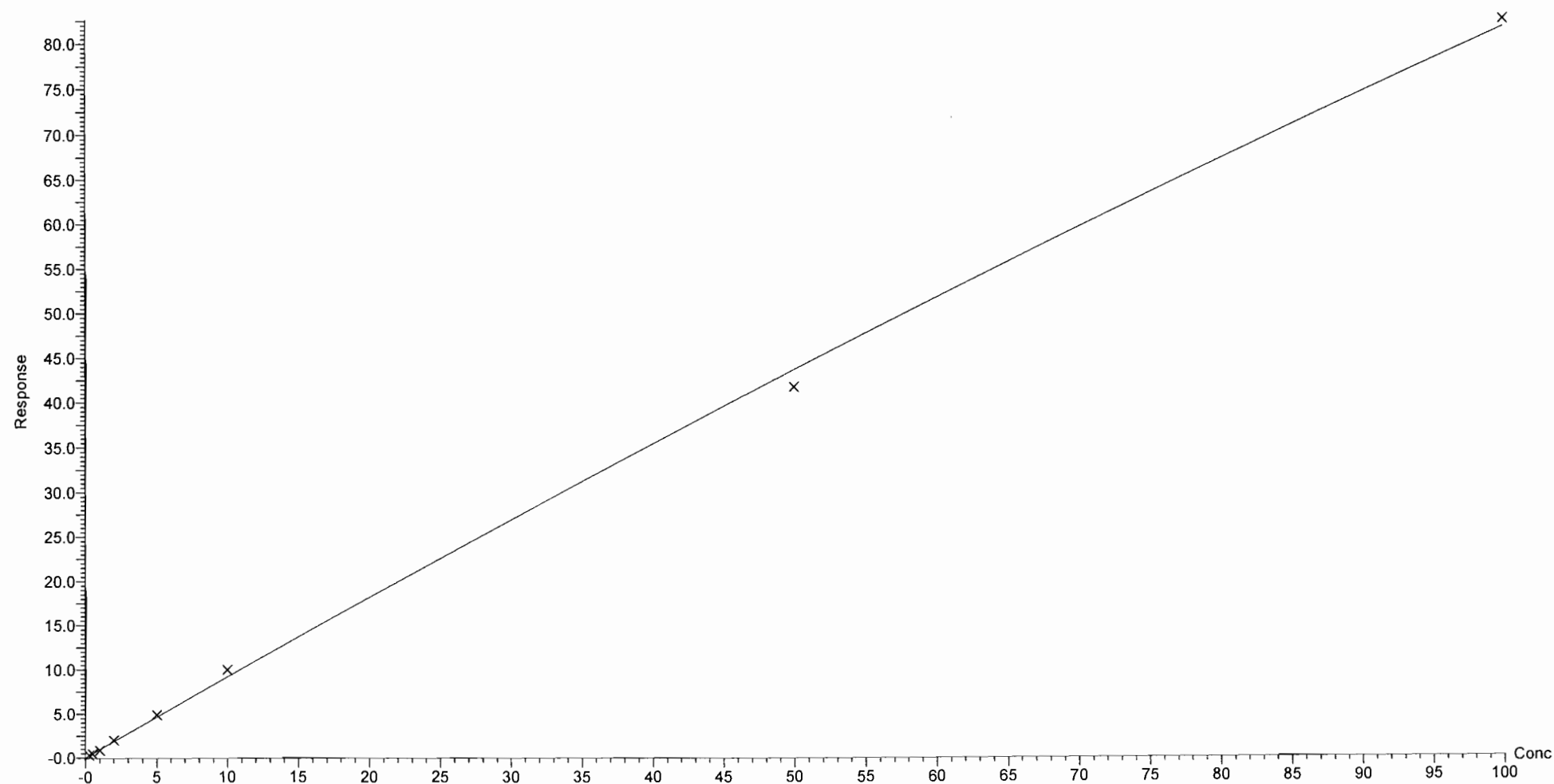
Compound name: PFODA

Coefficient of Determination: $R^2 = 0.998411$

Calibration curve: $-0.00110371 \cdot x^2 + 0.927917 \cdot x + 0.0174073$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

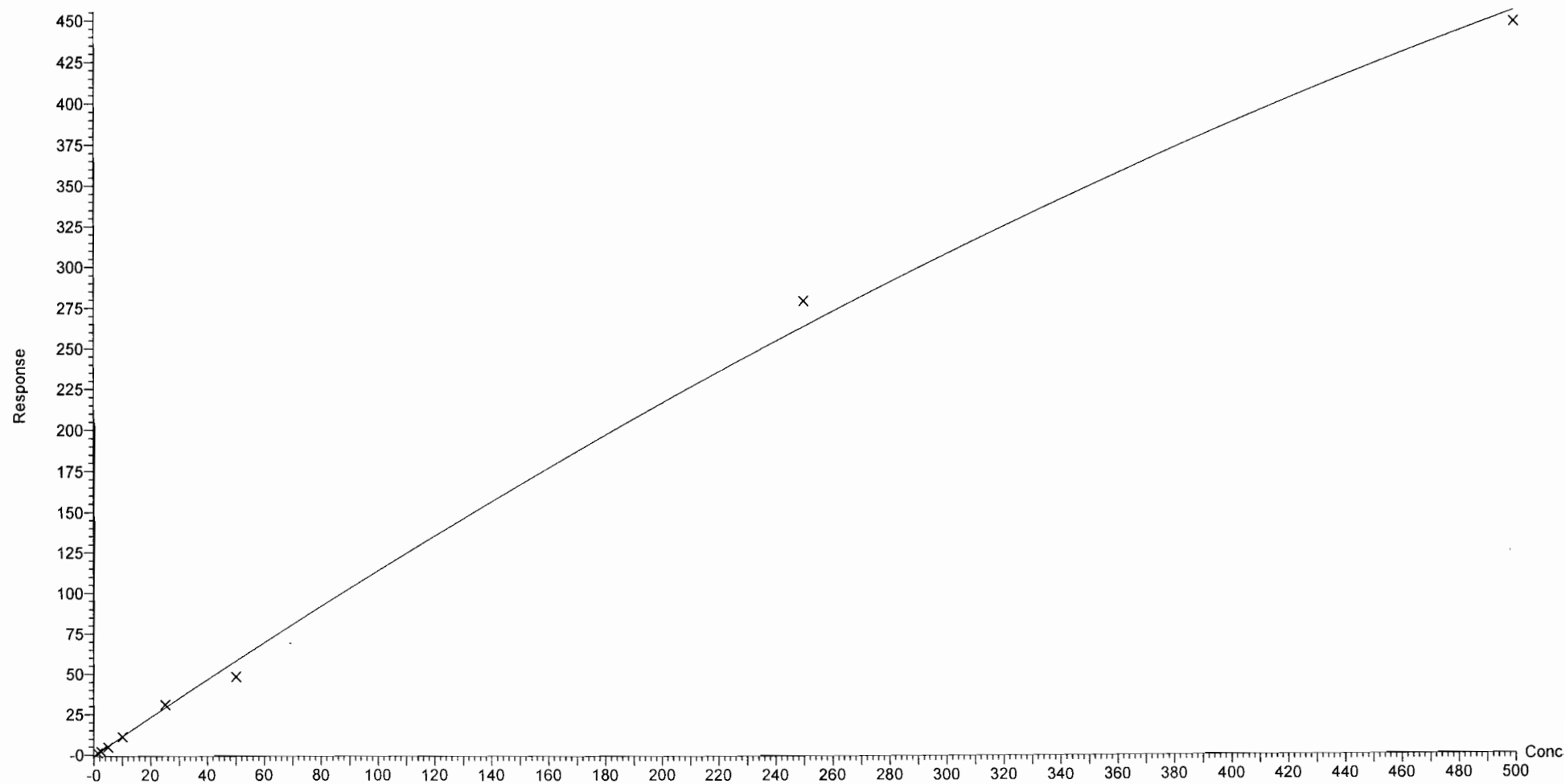
Compound name: N-MeFOSE

Coefficient of Determination: $R^2 = 0.995669$

Calibration curve: $-0.000576302 * x^2 + 1.20032 * x + -0.665296$

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\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:24:35 Pacific Standard Time

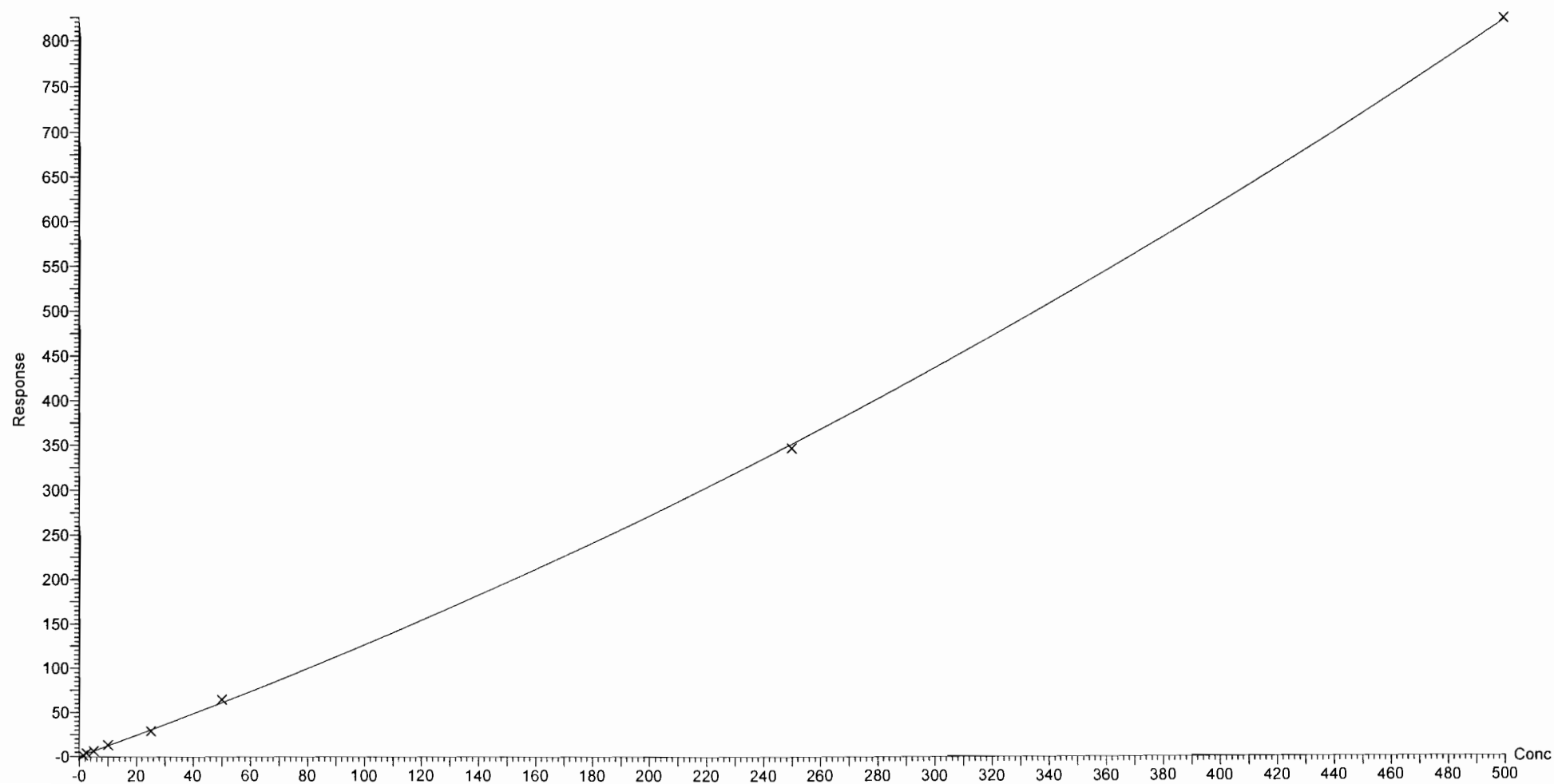
Compound name: N-EtFOSE

Coefficient of Determination: $R^2 = 0.999660$

Calibration curve: $0.00097229 * x^2 + 1.15972 * x + 0.350902$

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

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



Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 10:06:30 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:09:05 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 09:37:18

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180115M2_1	ST180115M2-1 PFC CS-2 17L2606	16-Jan-18	00:14:07
2	180115M2_2	ST180115M2-2 PFC CS-1 17L2607	16-Jan-18	00:25:32
3	180115M2_3	ST180115M2-3 PFC CS0 17L2608	16-Jan-18	00:37:02
4	180115M2_4	ST180115M2-4 PFC CS1 17L2609	16-Jan-18	00:48:46
5	180115M2_5	ST180115M2-5 PFC CS2 17L2610	16-Jan-18	01:00:17
6	180115M2_6	ST180115M2-6 PFC CS3 17L2611	16-Jan-18	01:11:44
7	180115M2_7	ST180115M2-7 PFC CS4 17L1208	16-Jan-18	01:23:11
8	180115M2_8	ST180115M2-8 PFC CS5 17L2613	16-Jan-18	01:34:38
9	180115M2_9	IPA	16-Jan-18	01:46:05
10	180115M2_10	ICV180115M2-1 PFC ICV 17L1201	16-Jan-18	01:57:31
11	180115M2_11	IPA	16-Jan-18	02:08:58

Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

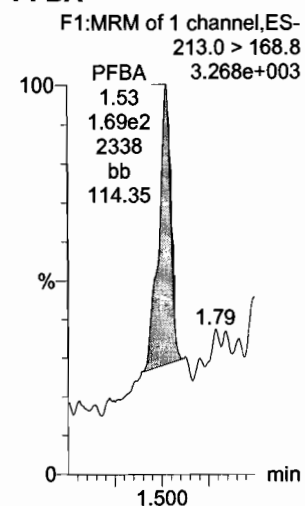
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

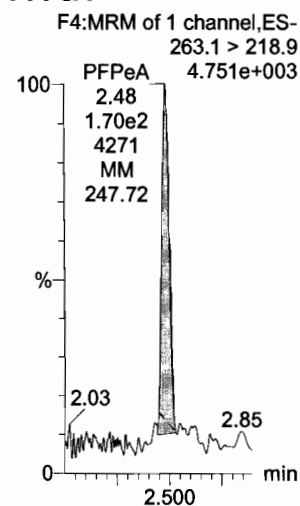
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 09:37:18

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

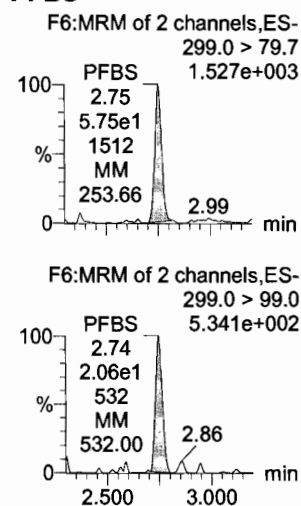
PFBA



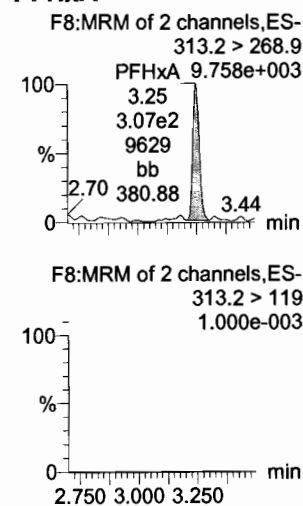
PFPeA



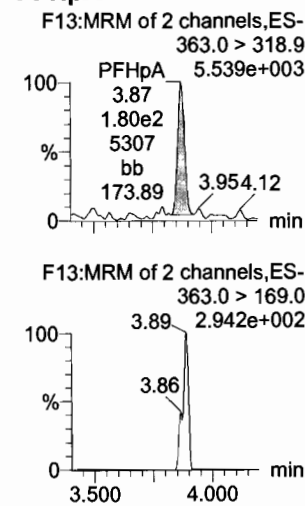
PFBS



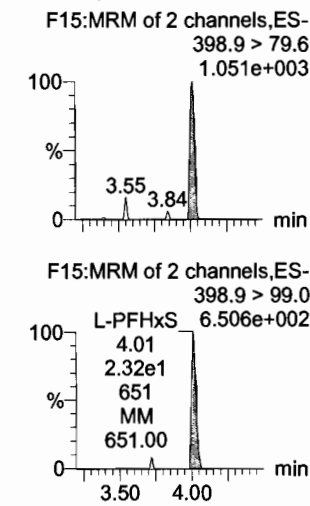
PFHxA



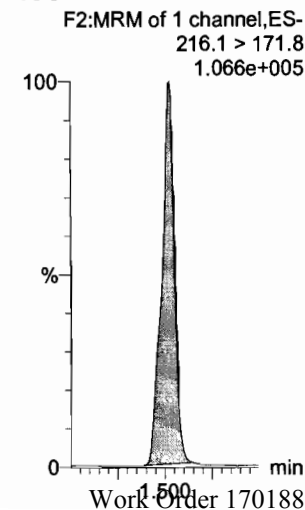
PFHpA



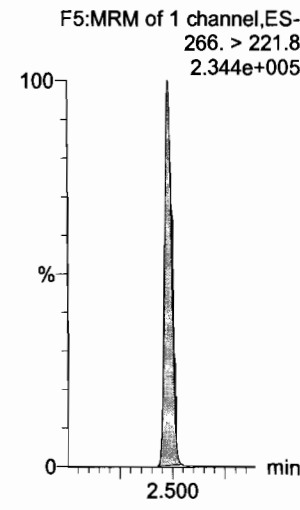
L-PFHxS



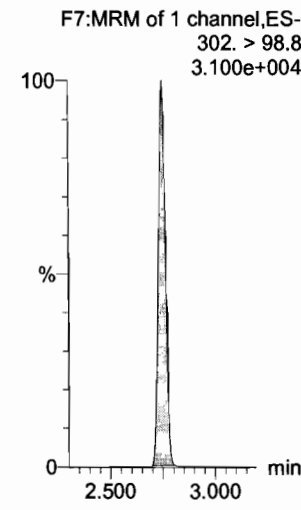
13C3-PFBA



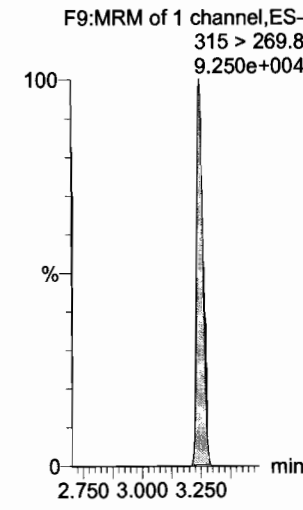
13C3-PFPeA



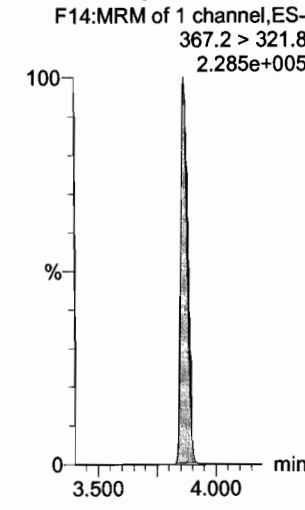
13C3-PFBS



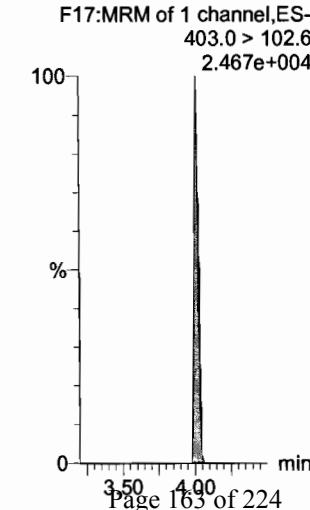
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

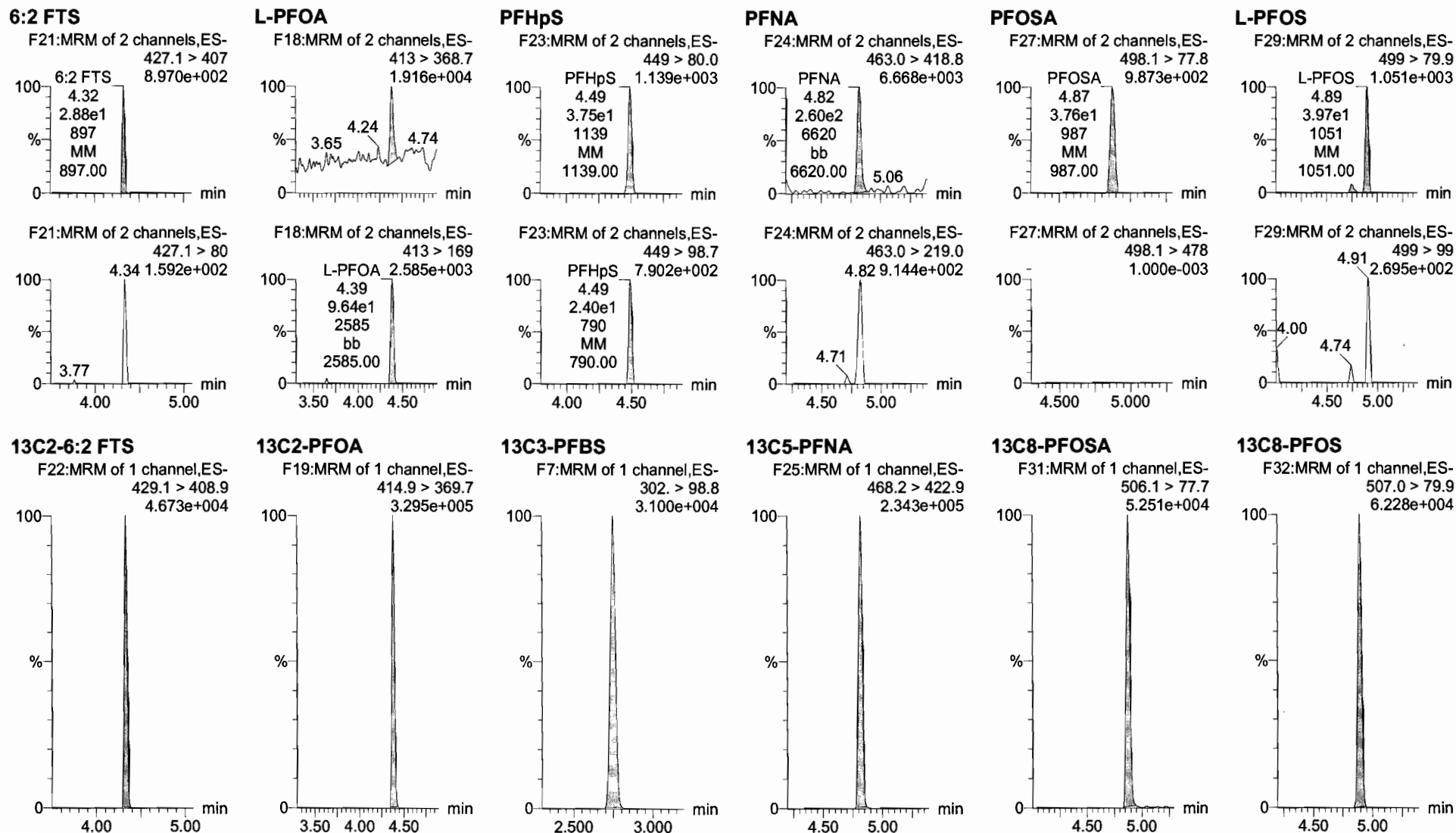


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606



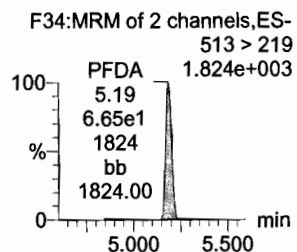
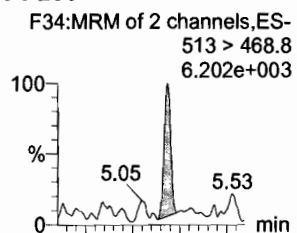
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

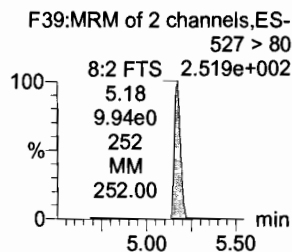
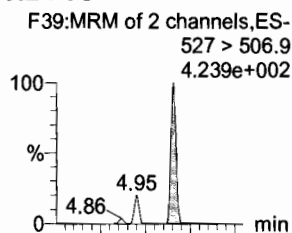
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

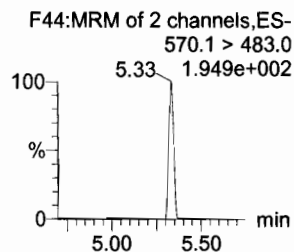
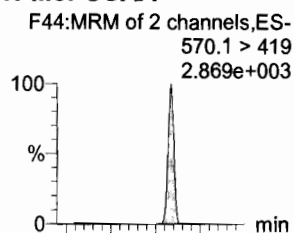
PFDA



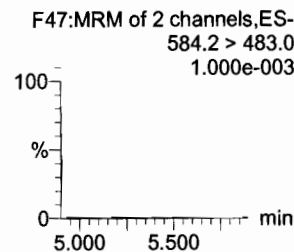
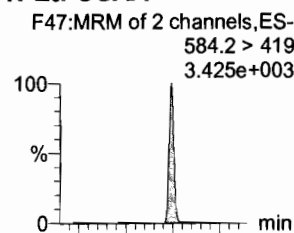
8:2 FTS



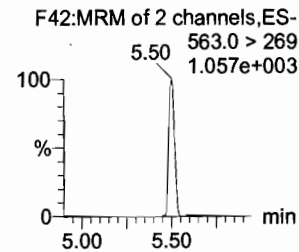
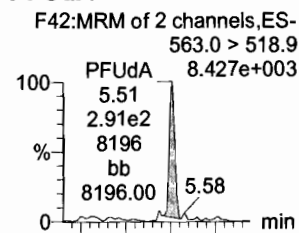
N-MeFOSAA



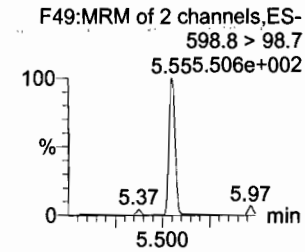
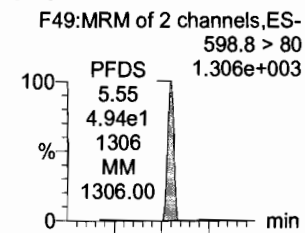
N-EtFOSAA



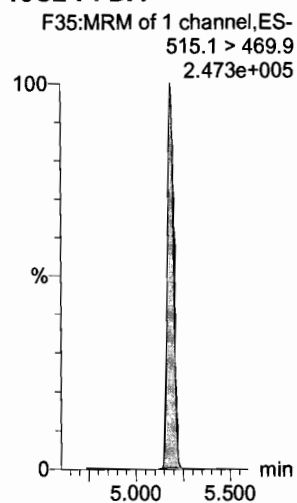
PFUdA



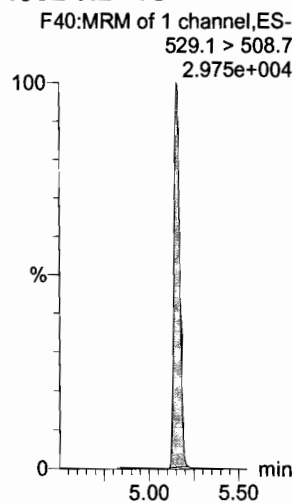
PFDS



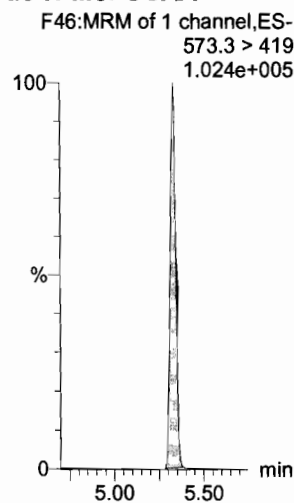
13C2-PFDA



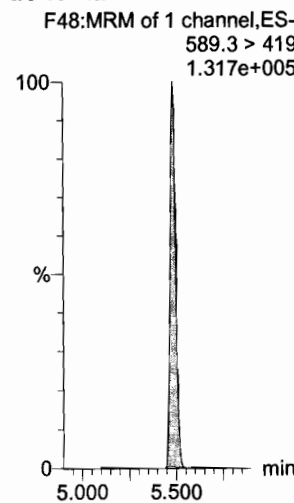
13C2-8:2 FTS



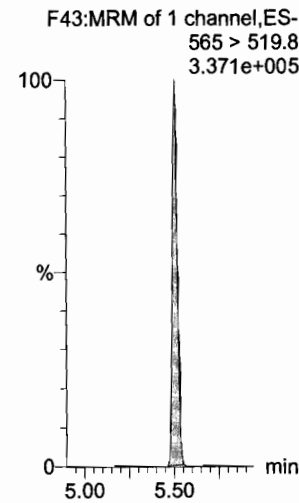
d3-N-MeFOSAA



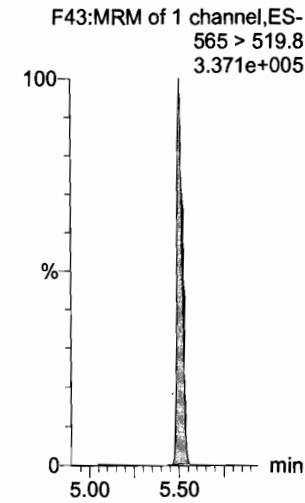
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



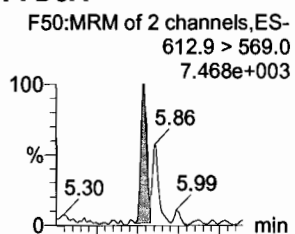
Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

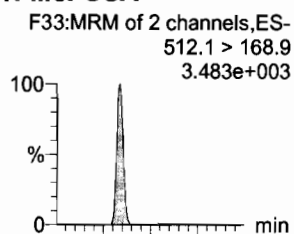
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

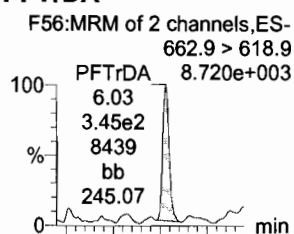
PFDaA



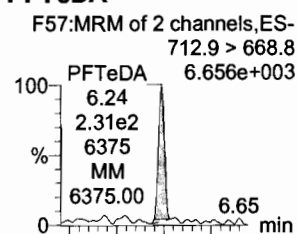
N-MeFOSA



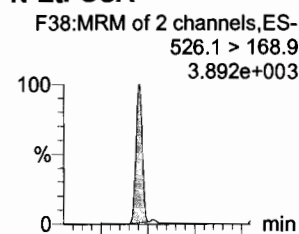
PFTTrDA



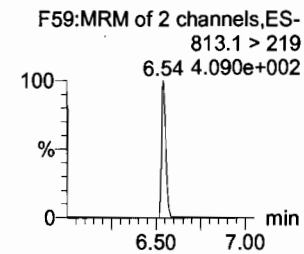
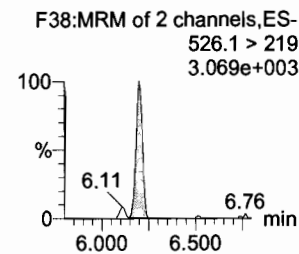
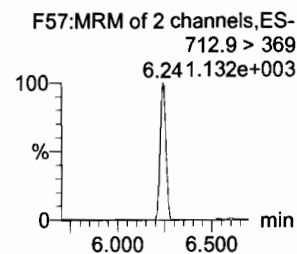
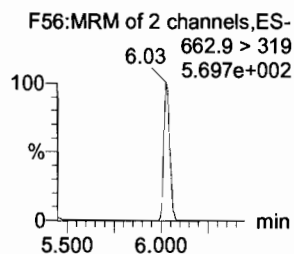
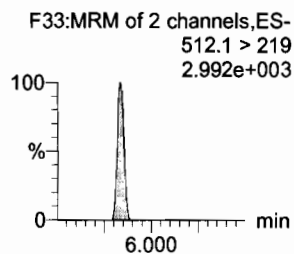
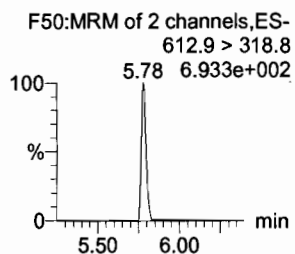
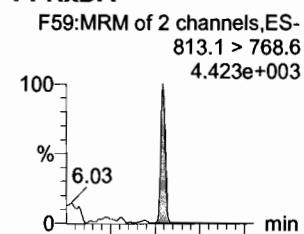
PFTeDA



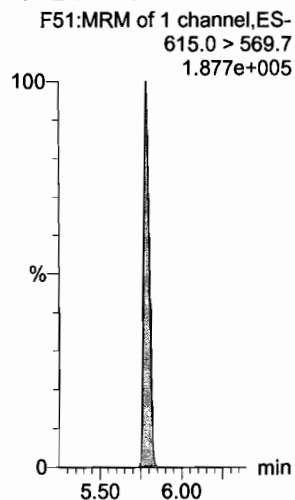
N-EtFOSA



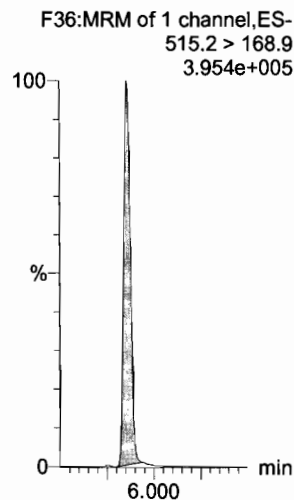
PFHxDA



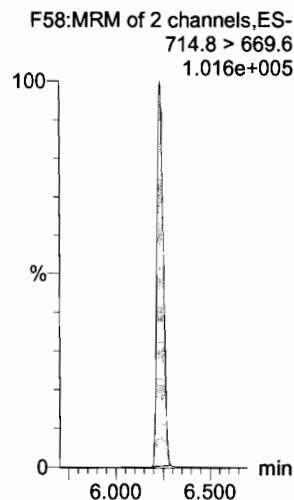
13C2-PFDaA



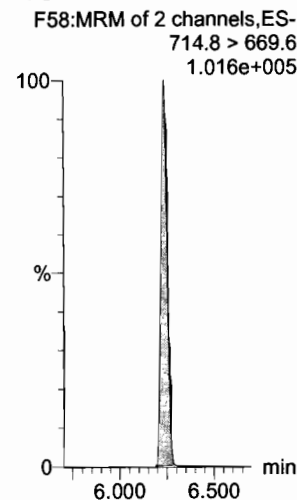
d3-N-MeFOSA



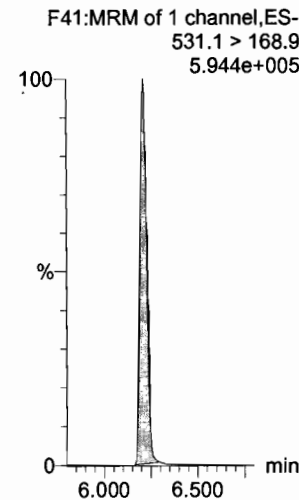
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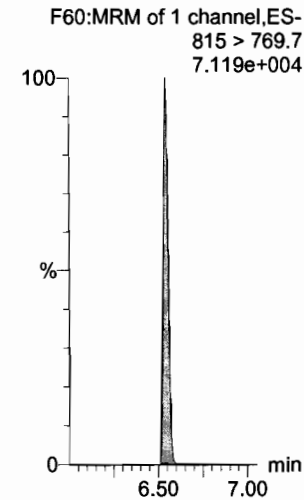
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

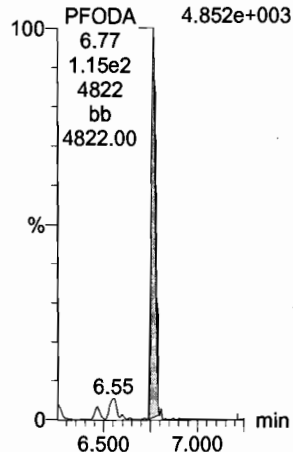
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

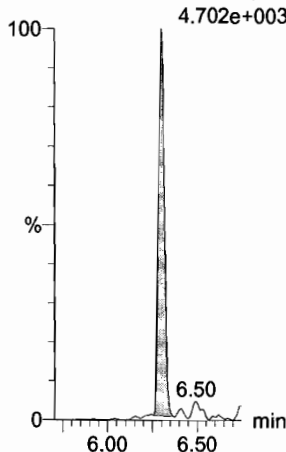
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
4.852e+003



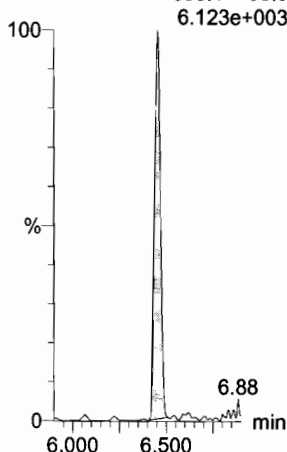
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
4.702e+003



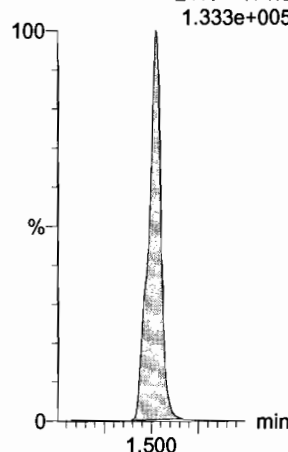
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
6.123e+003



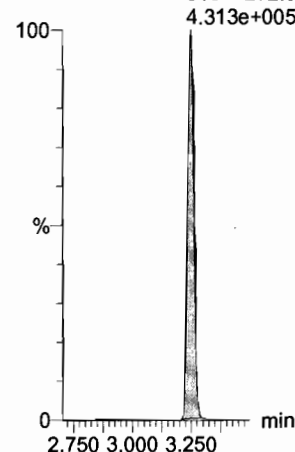
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.333e+005



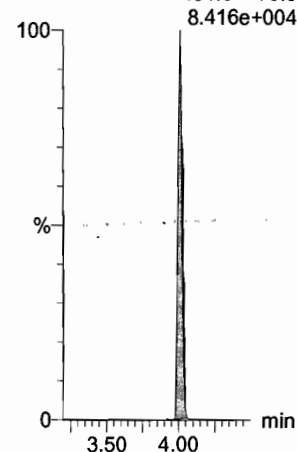
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.313e+005



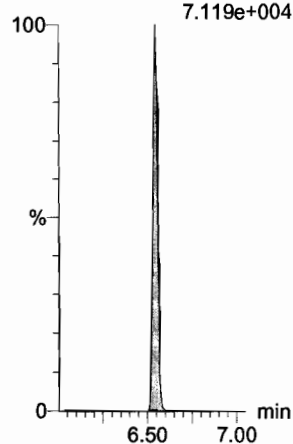
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
8.416e+004



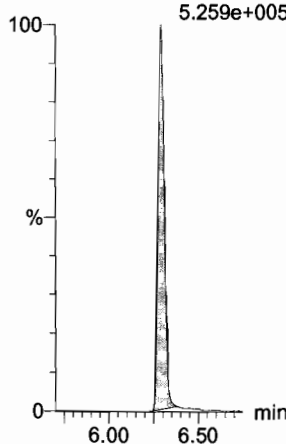
13C2-PFHxDa

F60:MRM of 1 channel,ES-
815 > 769.7
7.119e+004



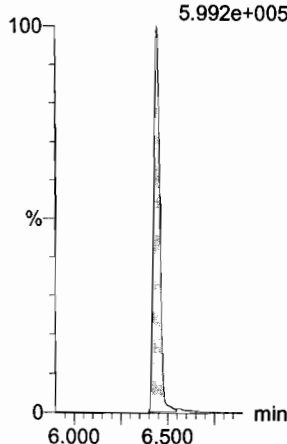
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
5.259e+005



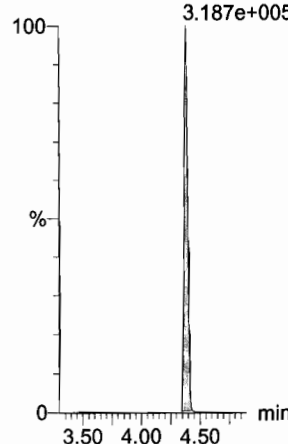
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
5.992e+005



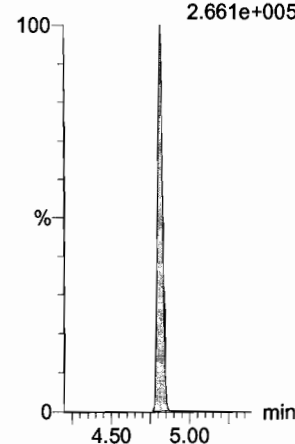
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.187e+005



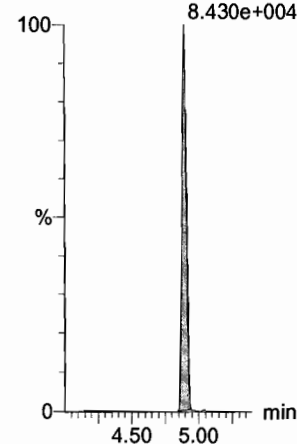
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.661e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
8.430e+004



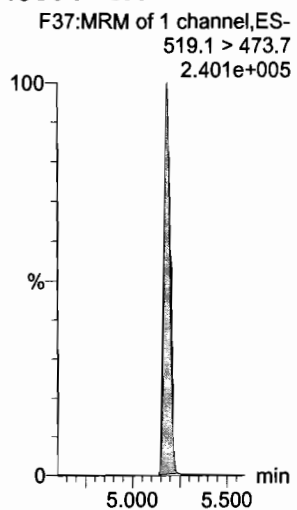
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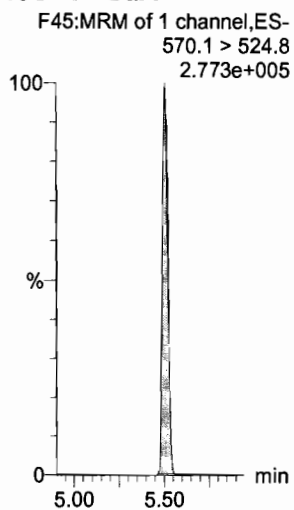
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

13C6-PFDA



13C7-PFUdA



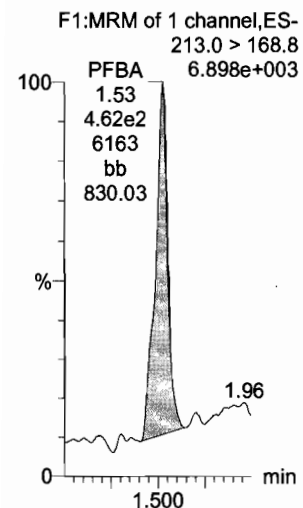
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

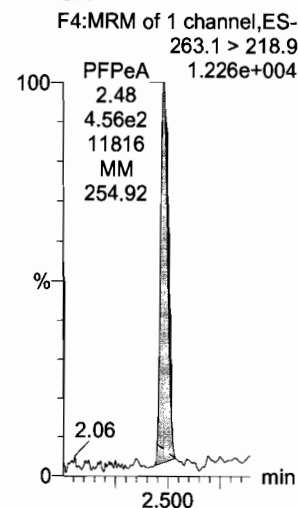
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

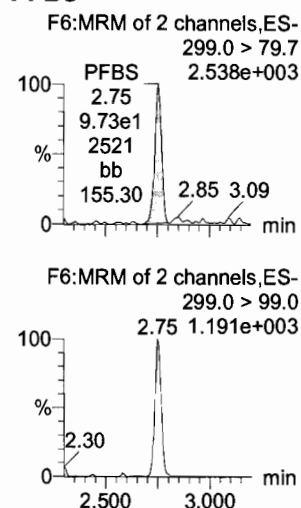
PFBA



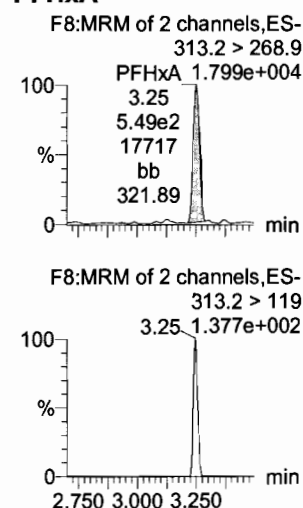
PFPeA



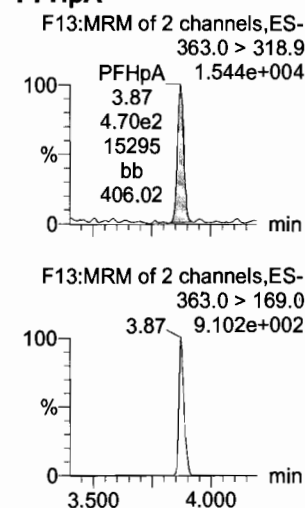
PFBS



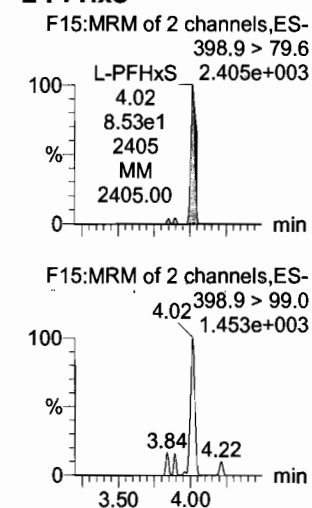
PFHxA



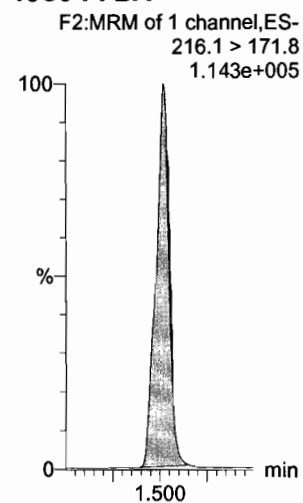
PFHpA



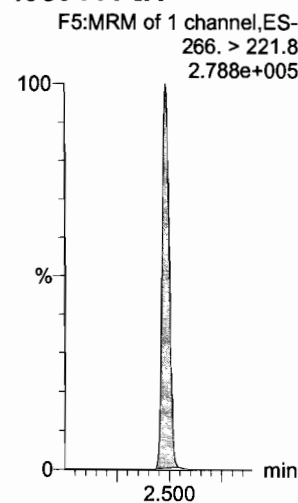
L-PFHxS



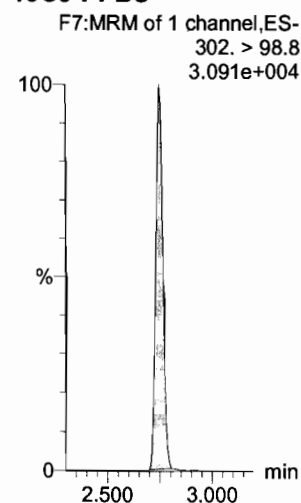
13C3-PFBA



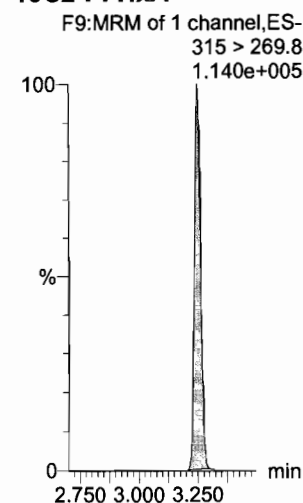
13C3-PFPeA



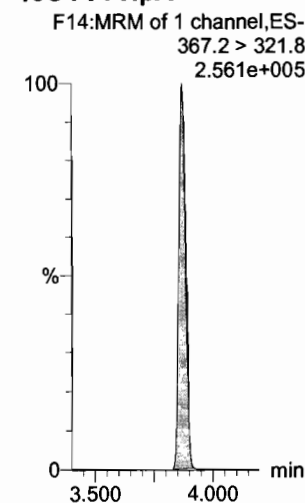
13C3-PFBS



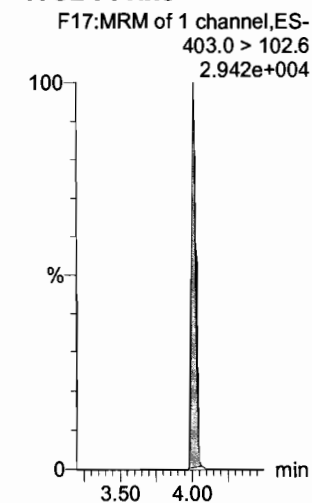
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

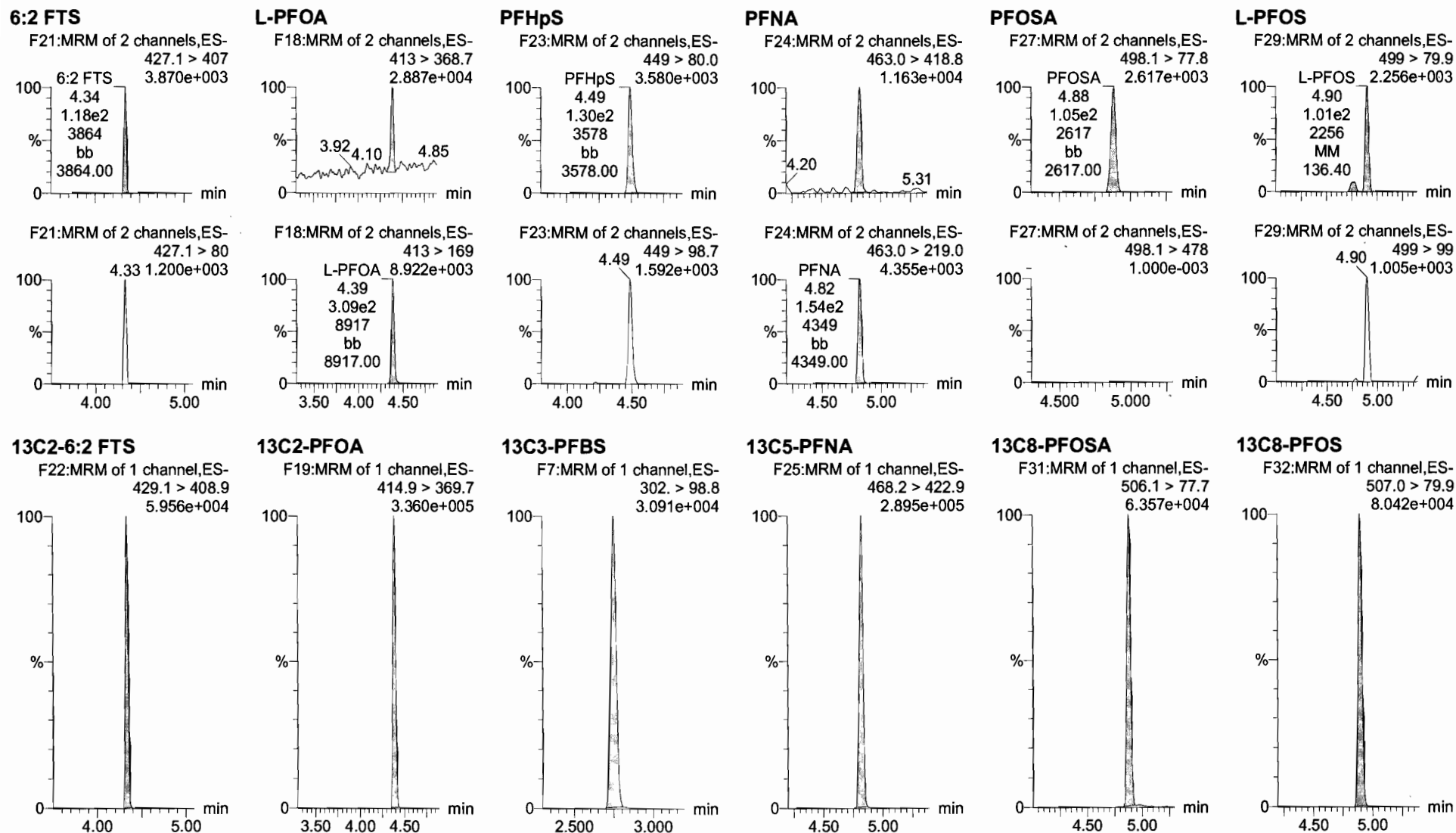


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607



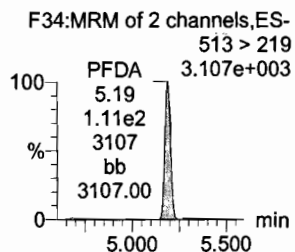
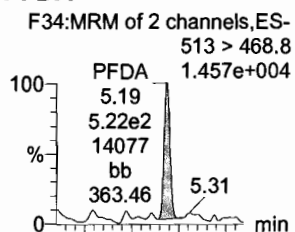
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

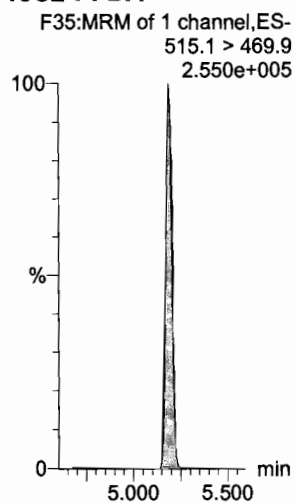
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

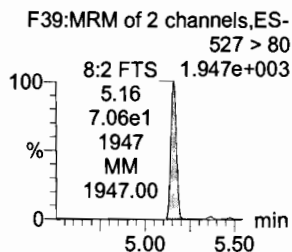
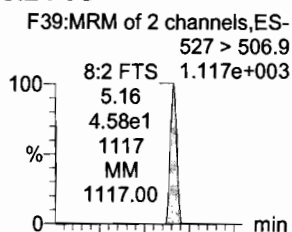
PFDA



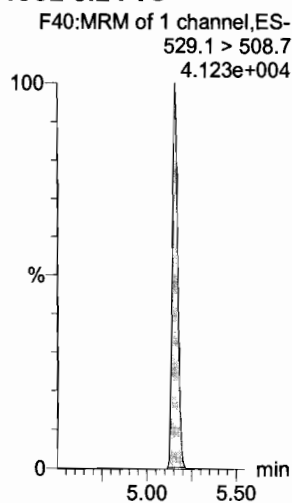
13C2-PFDA



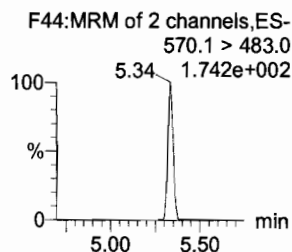
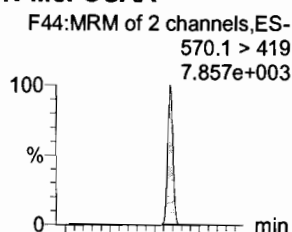
8:2 FTS



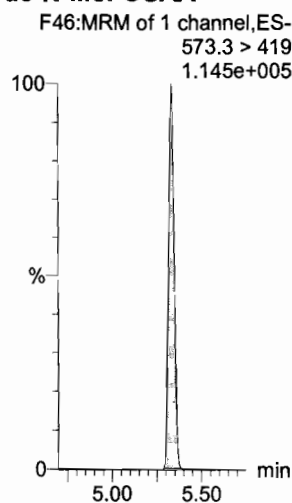
13C2-8:2 FTS



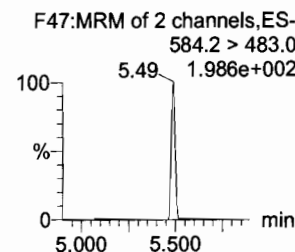
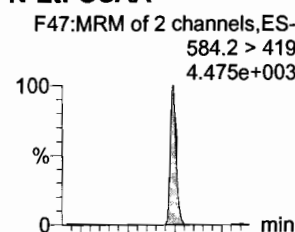
N-MeFOSAA



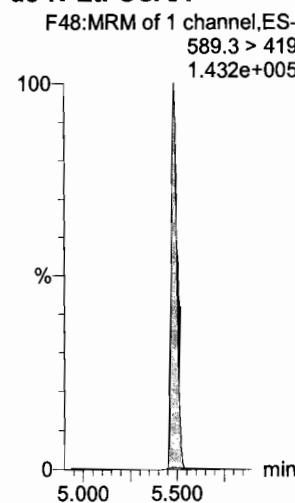
d3-N-MeFOSAA



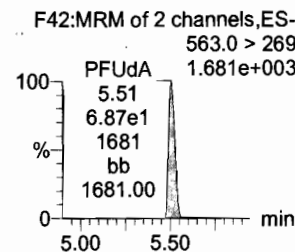
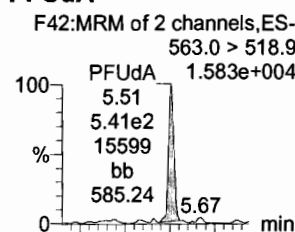
N-EtFOSAA



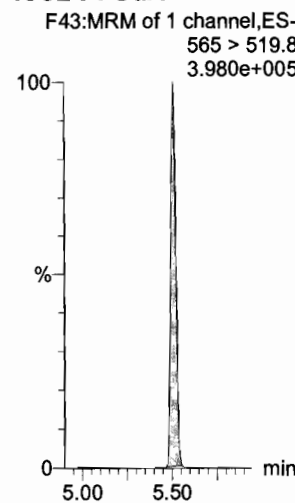
d5-N-EtFOSAA



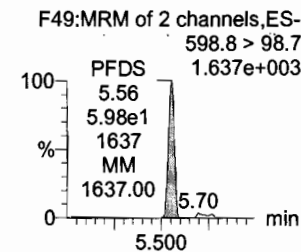
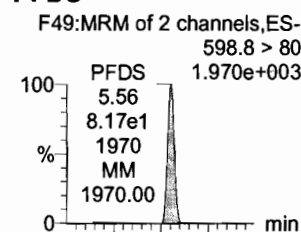
PFUdA



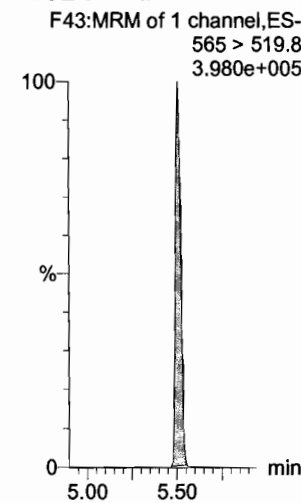
13C2-PFUdA



PFDS



13C2-PFUdA



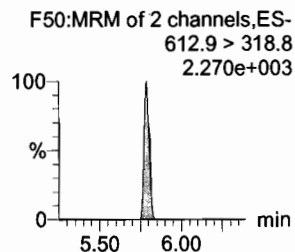
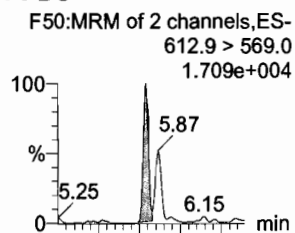
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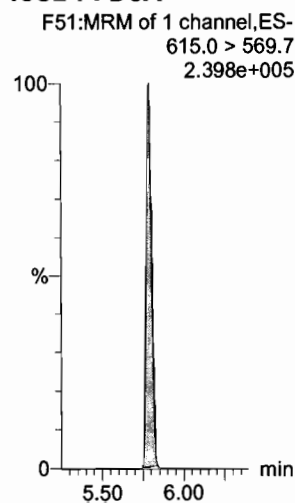
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Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

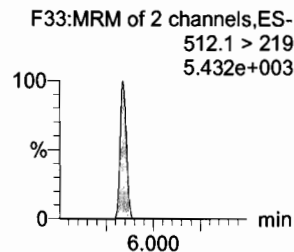
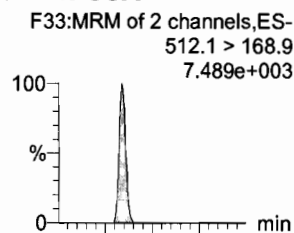
PFDaA



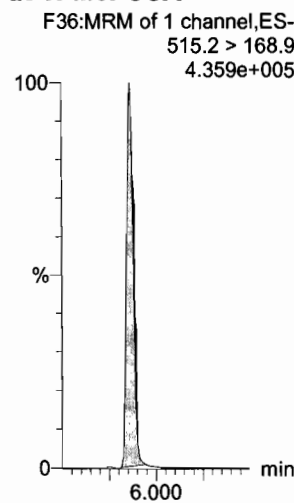
13C2-PFDaA



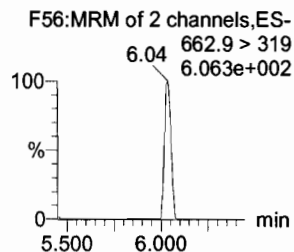
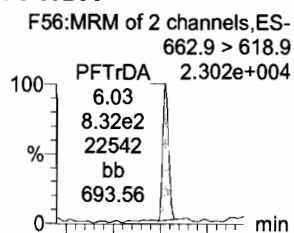
N-MeFOSA



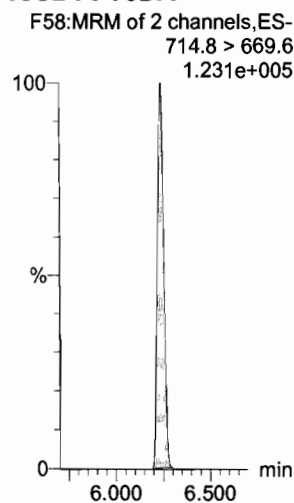
d3-N-MeFOSA



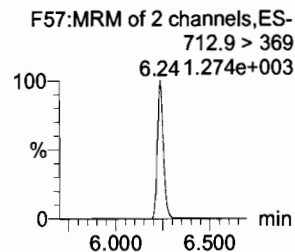
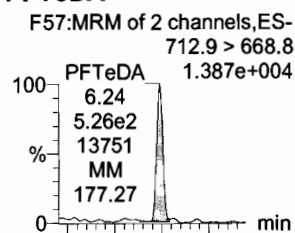
PFTrDA



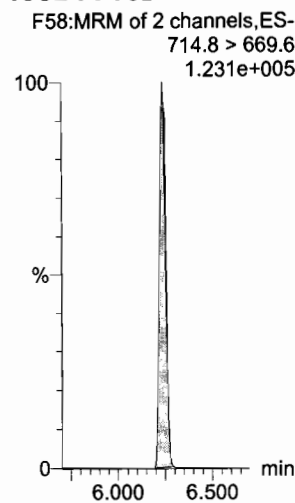
13C2-PFTeDA



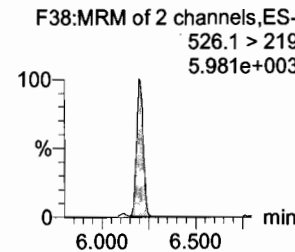
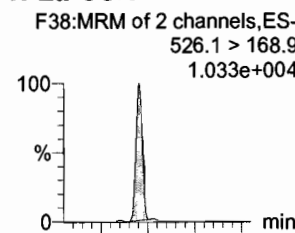
PFTeDA



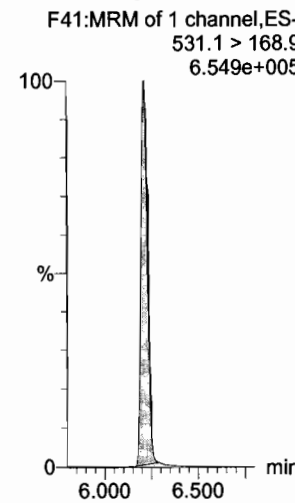
13C2-PFTeDA



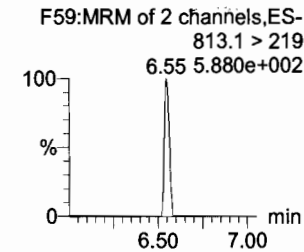
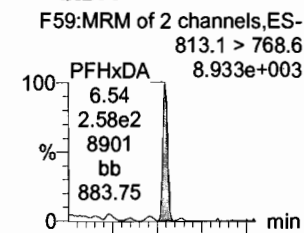
N-EtFOSA



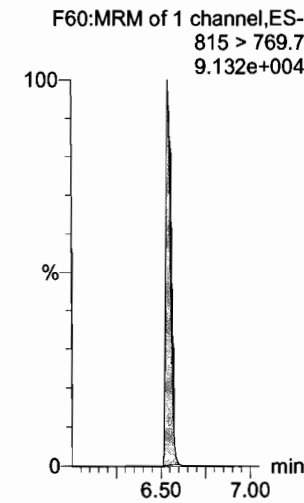
d5-N-ETFOSA



PFHxDA



13C2-PFHxDA



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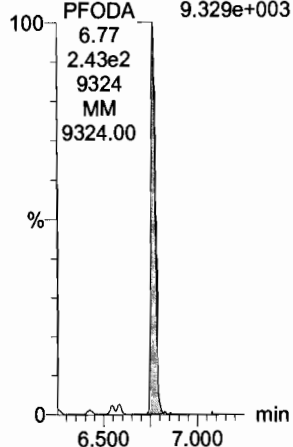
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Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

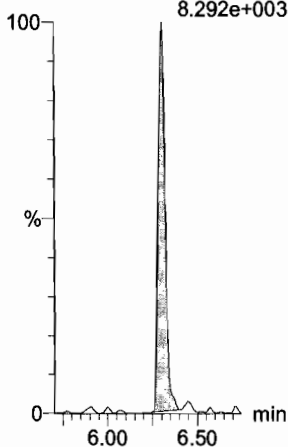
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
9.329e+003



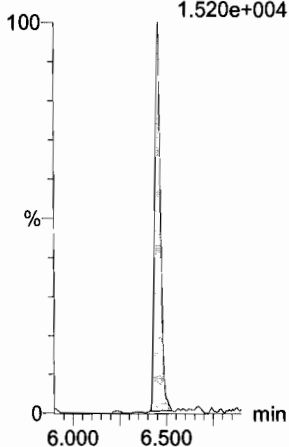
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
8.292e+003



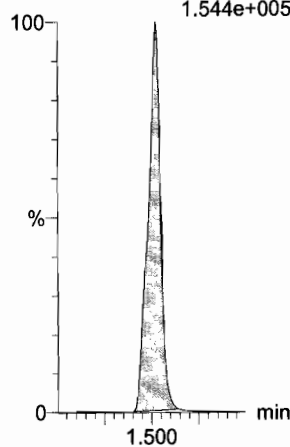
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
1.520e+004



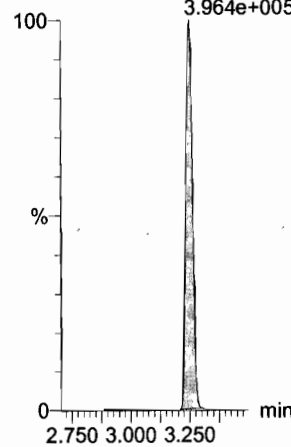
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.544e+005



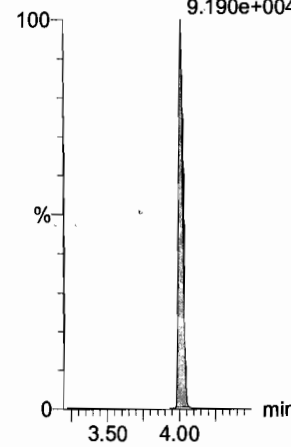
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.964e+005



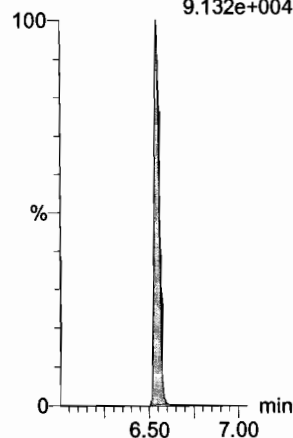
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
9.190e+004



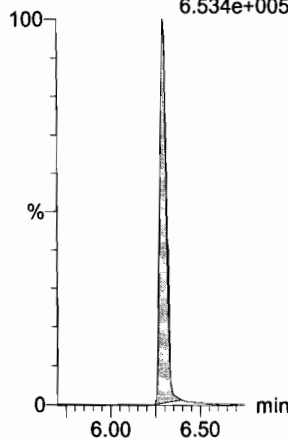
13C2-PFHxD

F60:MRM of 1 channel,ES-
815 > 769.7
9.132e+004



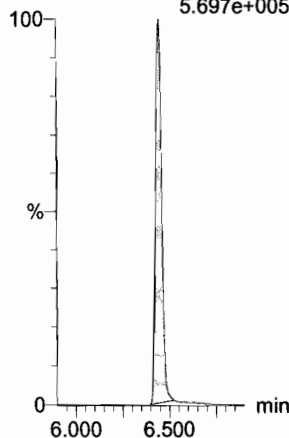
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
6.534e+005



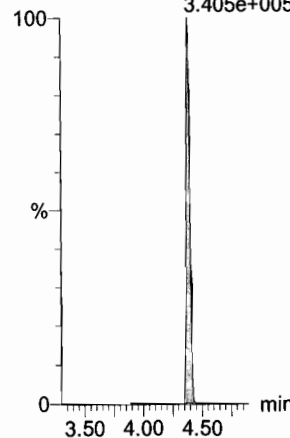
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
5.697e+005



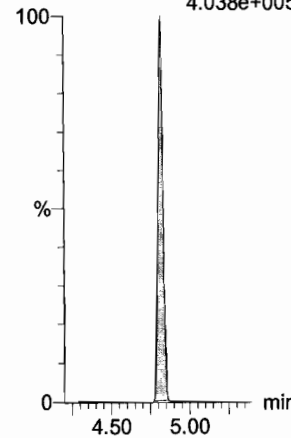
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.405e+005



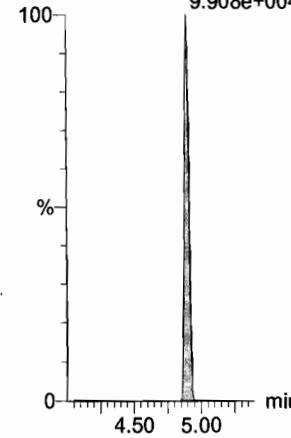
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.038e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
9.908e+004



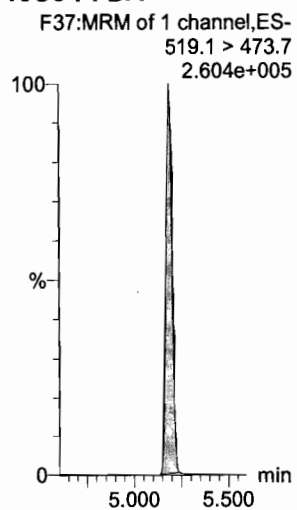
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

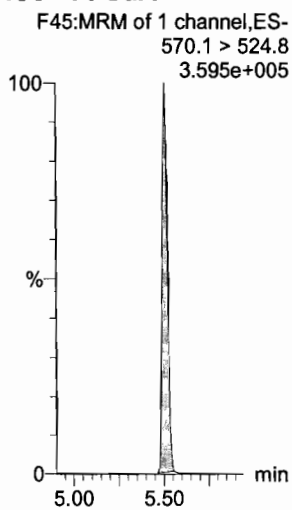
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Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

13C6-PFDA



13C7-PFUdA



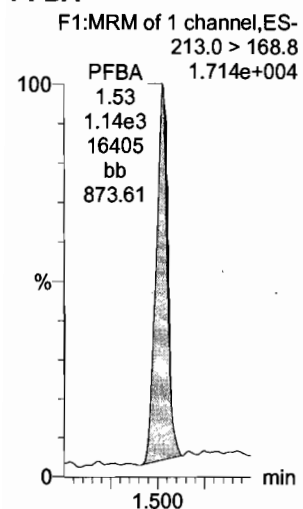
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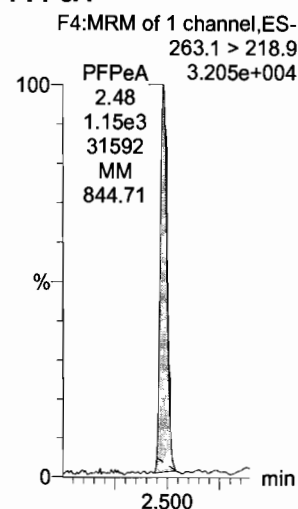
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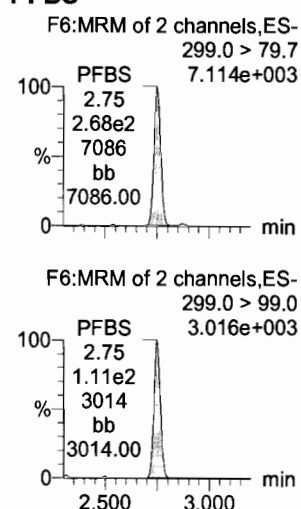
PFBA



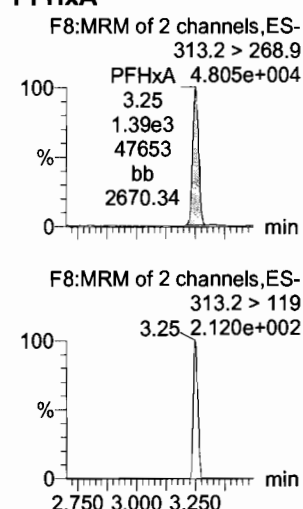
PFPeA



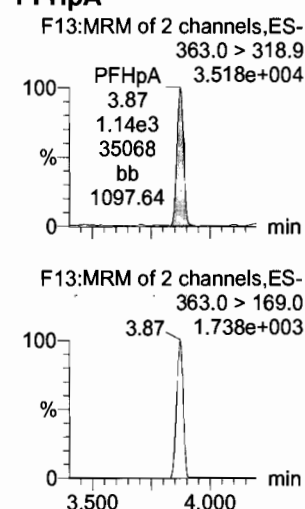
PFBS



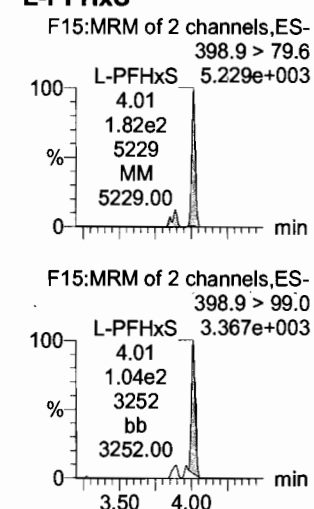
PFHxA



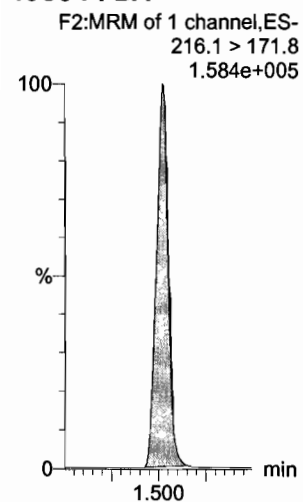
PFHpA



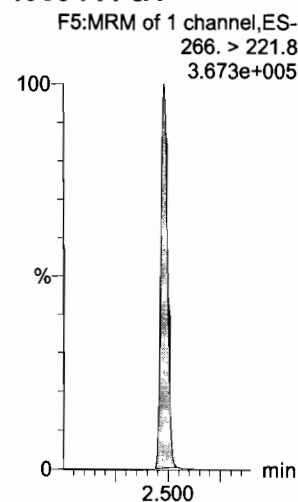
L-PFHxS



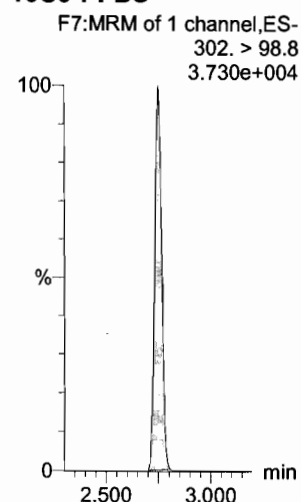
13C3-PFBA



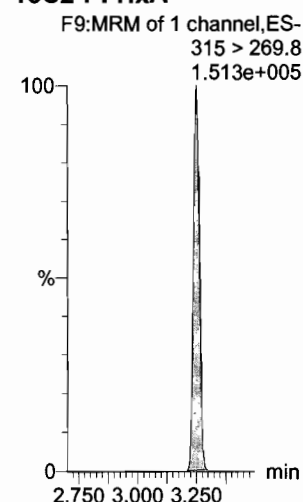
13C3-PFPeA



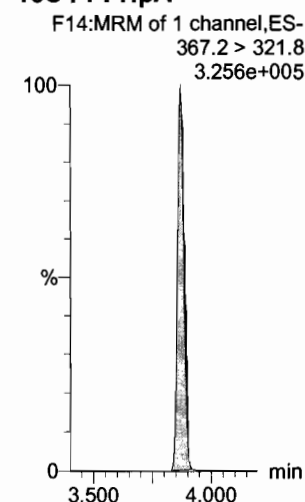
13C3-PFBS



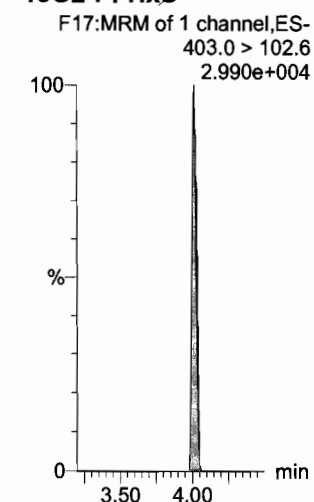
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



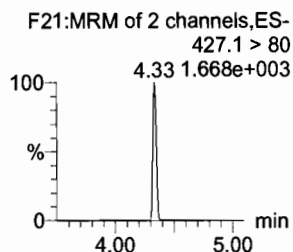
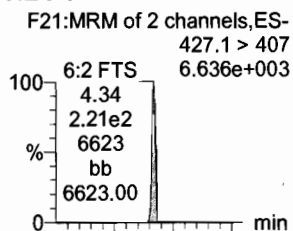
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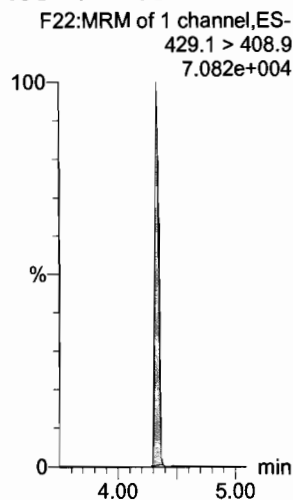
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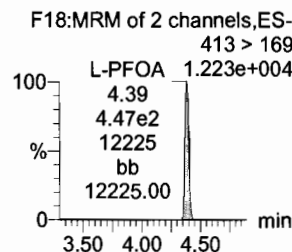
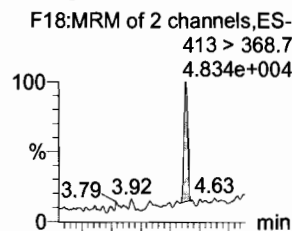
6:2 FTS



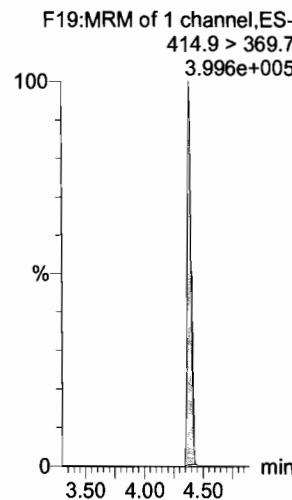
13C2-6:2 FTS



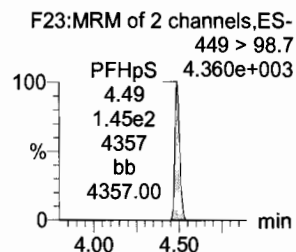
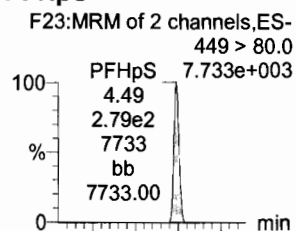
L-PFOA



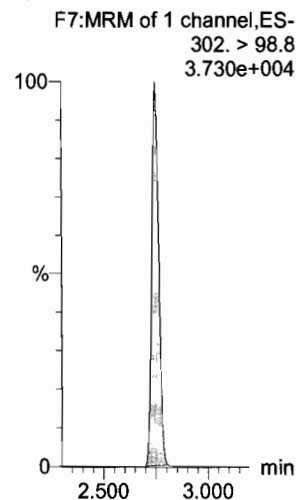
13C2-PFOA



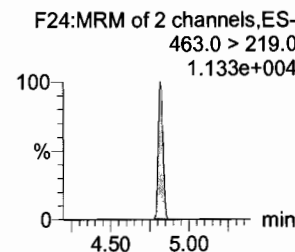
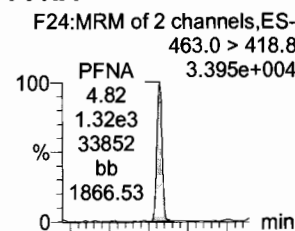
PFHpS



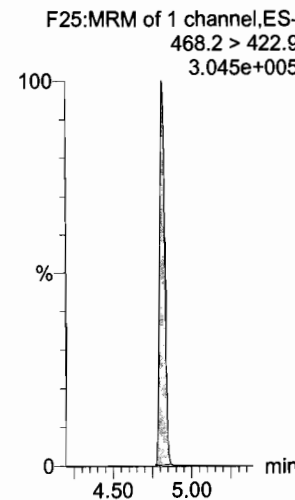
13C3-PFBS



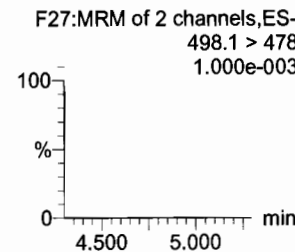
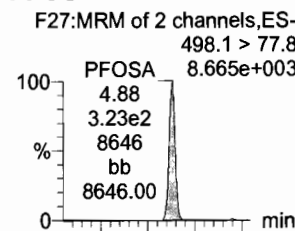
PFNA



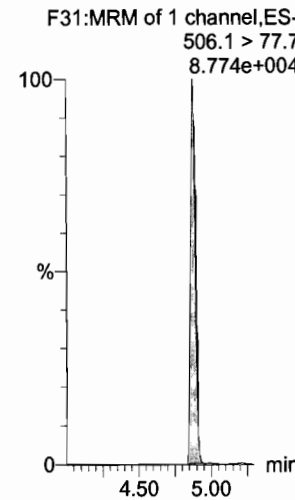
13C5-PFNA



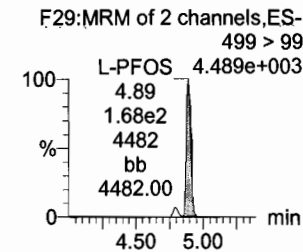
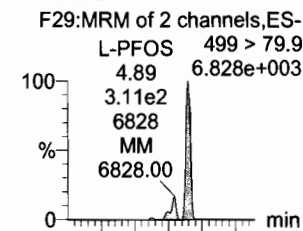
PFOSA



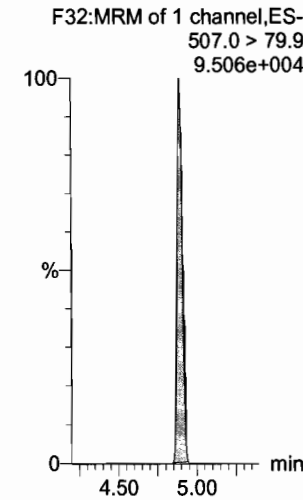
13C8-PFOSA



L-PFOS



13C8-PFOS



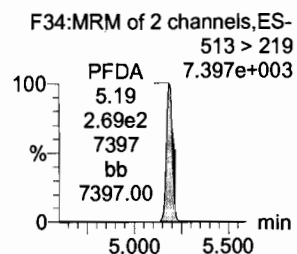
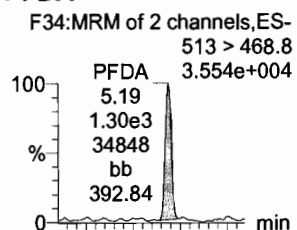
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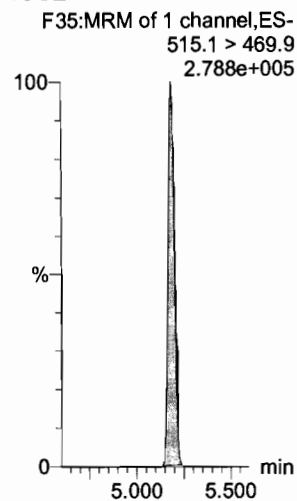
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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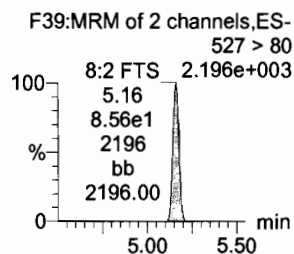
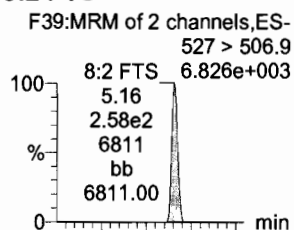
PFDA



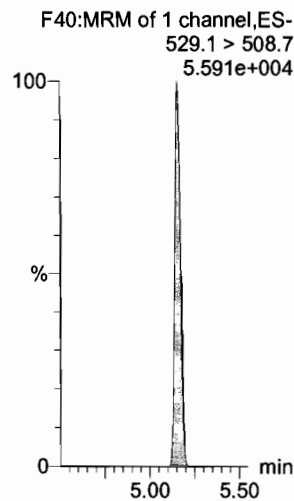
13C2-PFDA



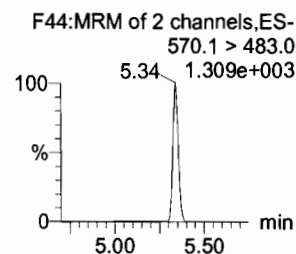
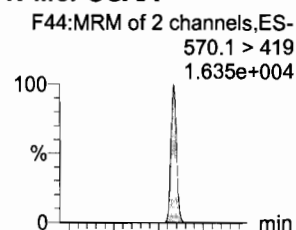
8:2 FTS



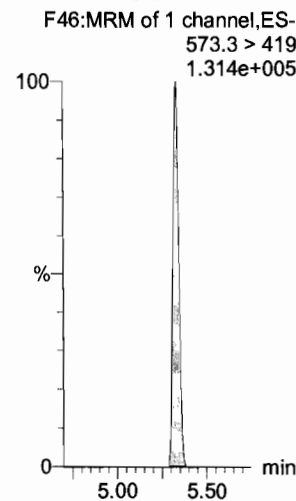
13C2-8:2 FTS



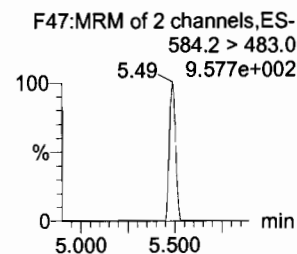
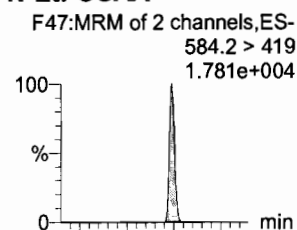
N-MeFOSAA



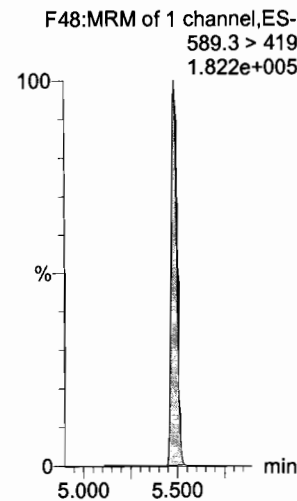
d3-N-MeFOSAA



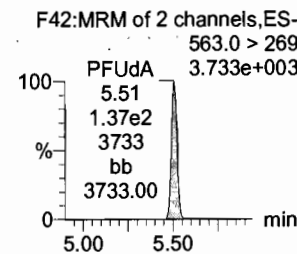
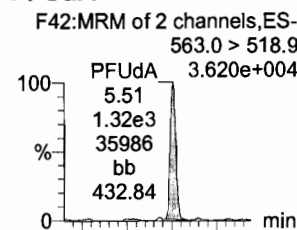
N-EtFOSAA



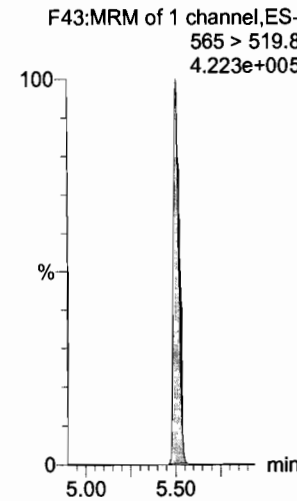
d5-N-EtFOSAA



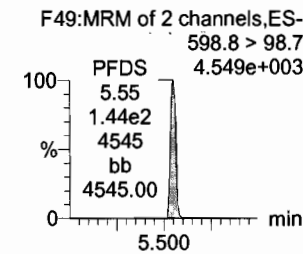
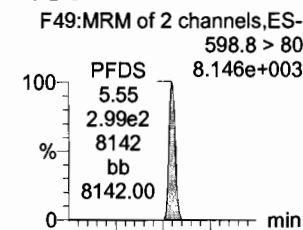
PFUdA



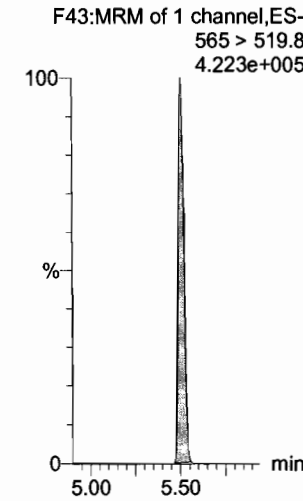
13C2-PFUdA



PFDS



13C2-PFUdA

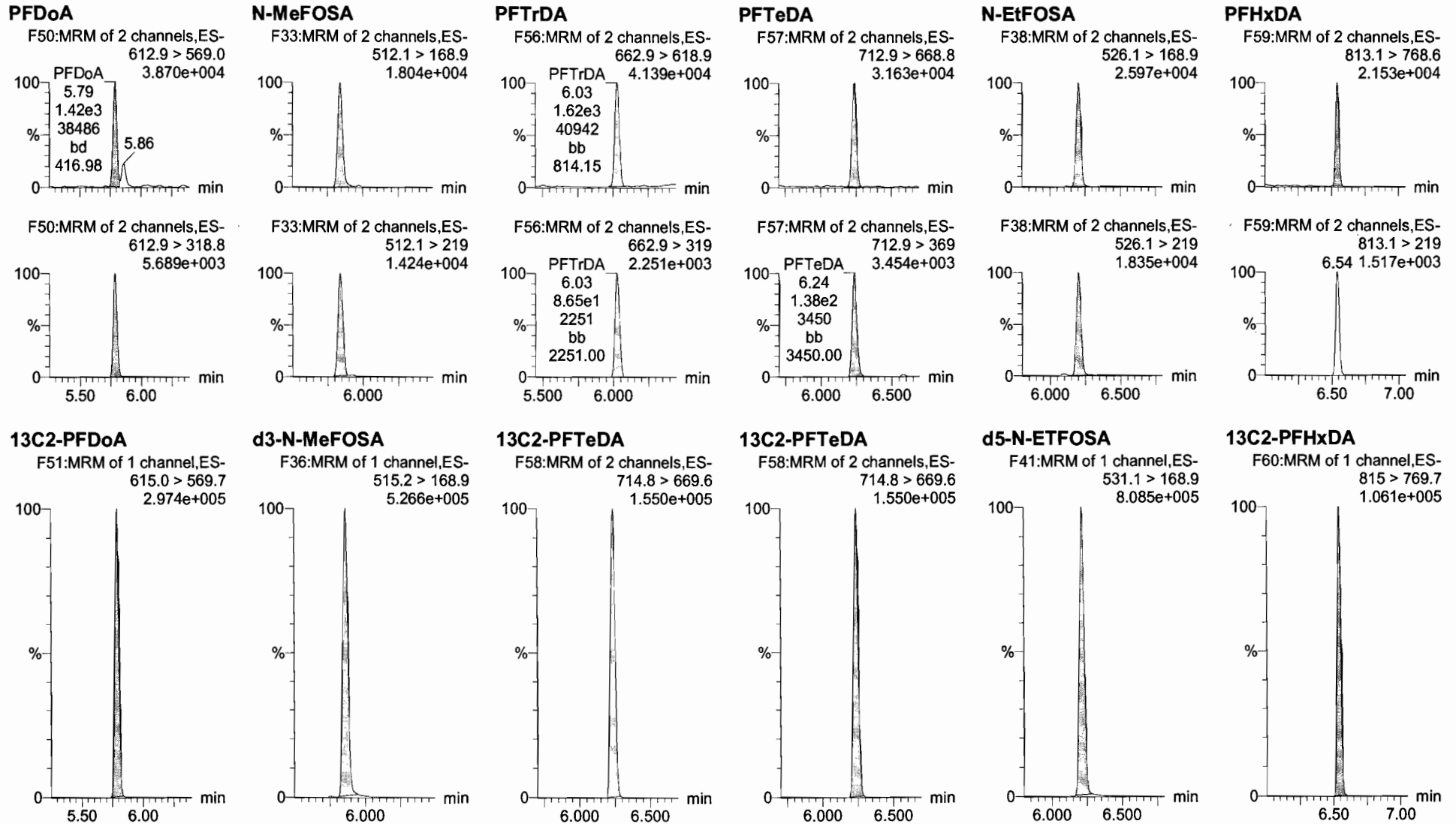


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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_3, Date: 16-Jan-2018, Time: 00:37:02, ID: ST180115M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

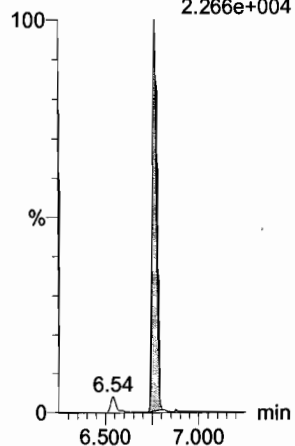
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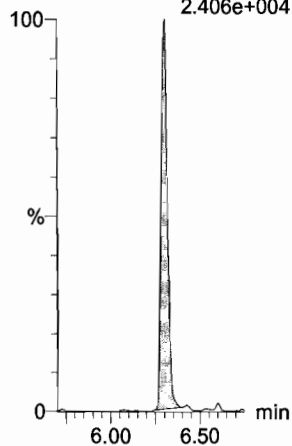
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.266e+004



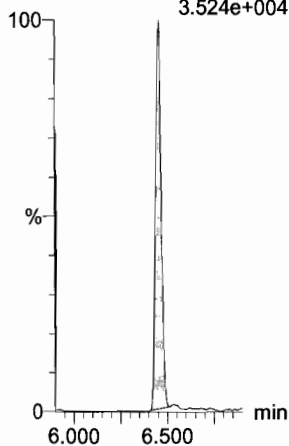
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
2.406e+004



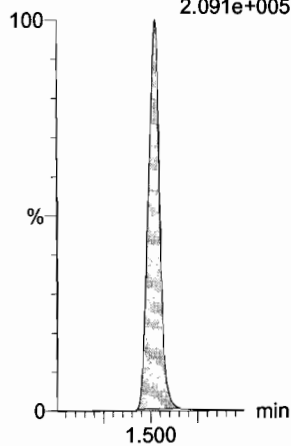
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
3.524e+004



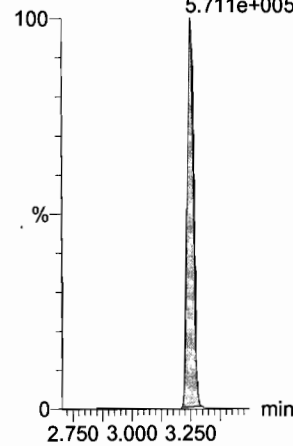
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
2.091e+005



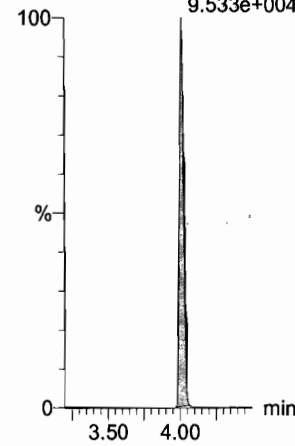
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
5.711e+005



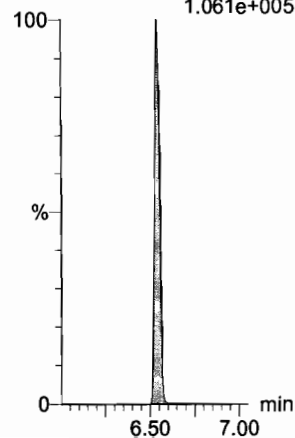
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
9.533e+004



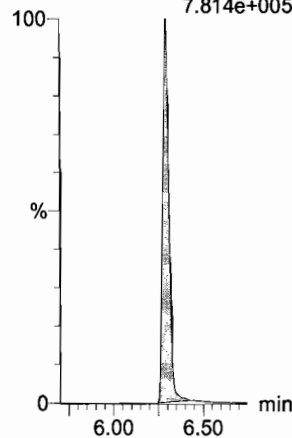
13C2-PFHxDa

F60:MRM of 1 channel,ES-
815 > 769.7
1.061e+005



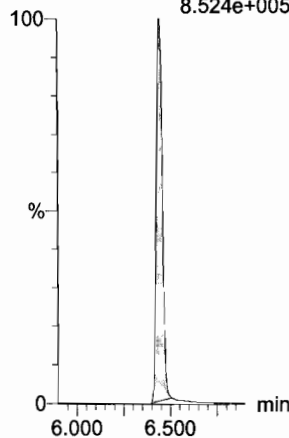
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
7.814e+005



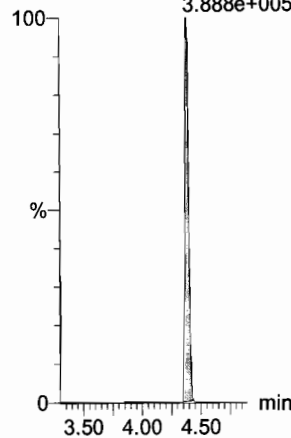
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
8.524e+005



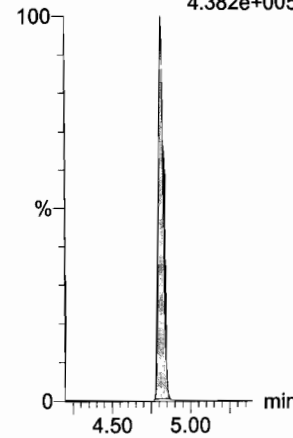
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.888e+005



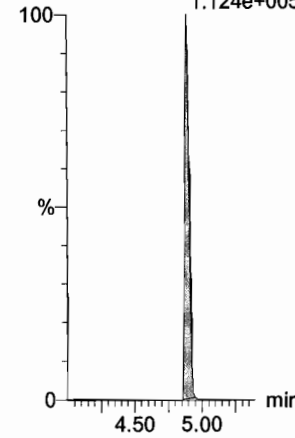
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.382e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
1.124e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

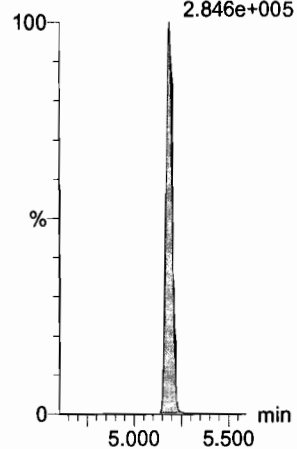
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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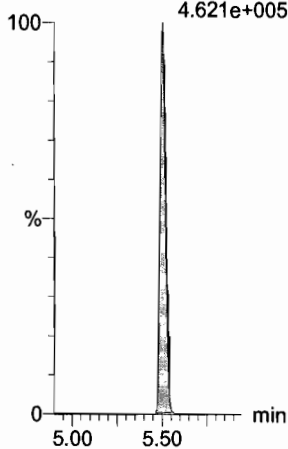
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.846e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.621e+005

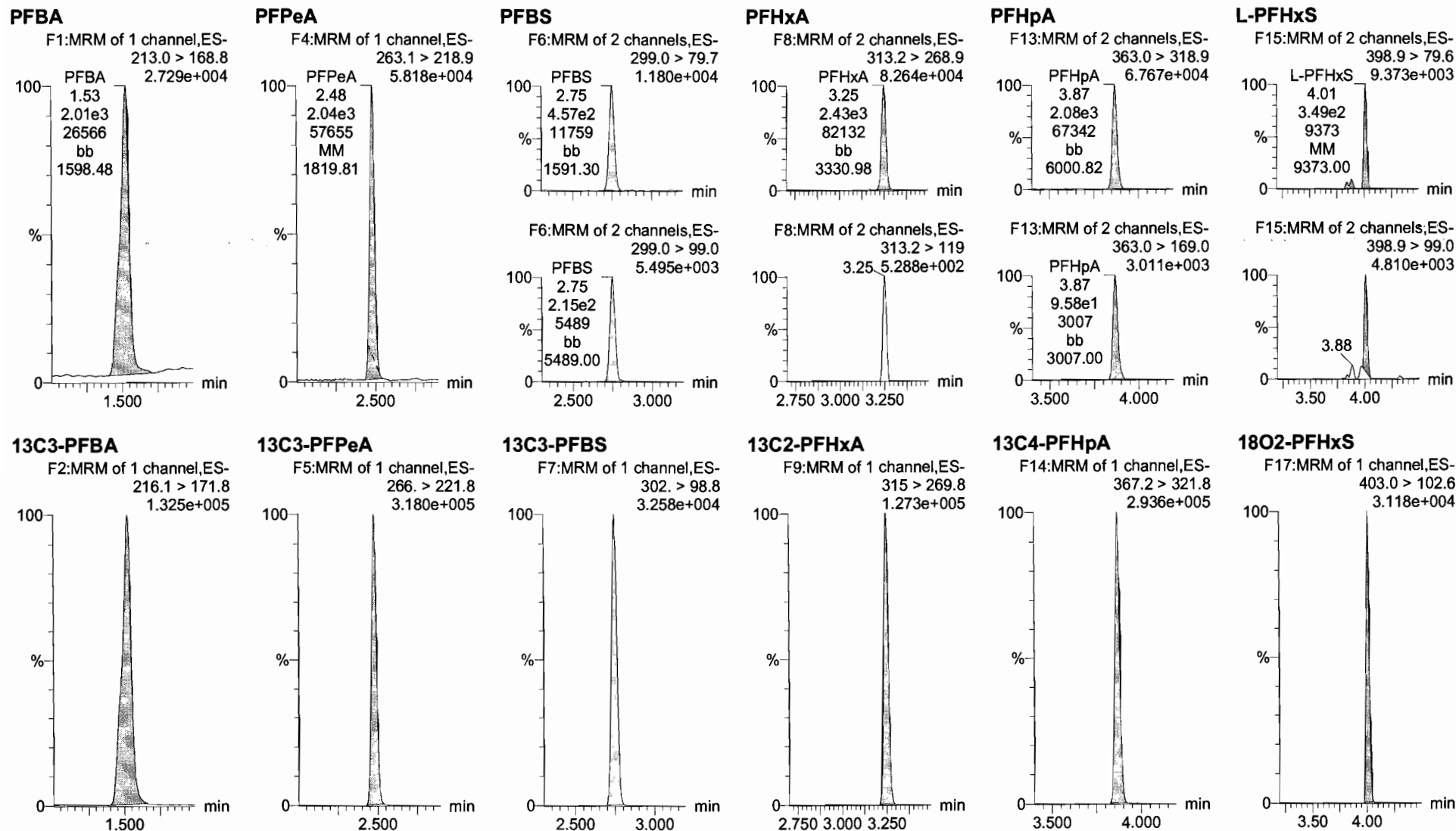


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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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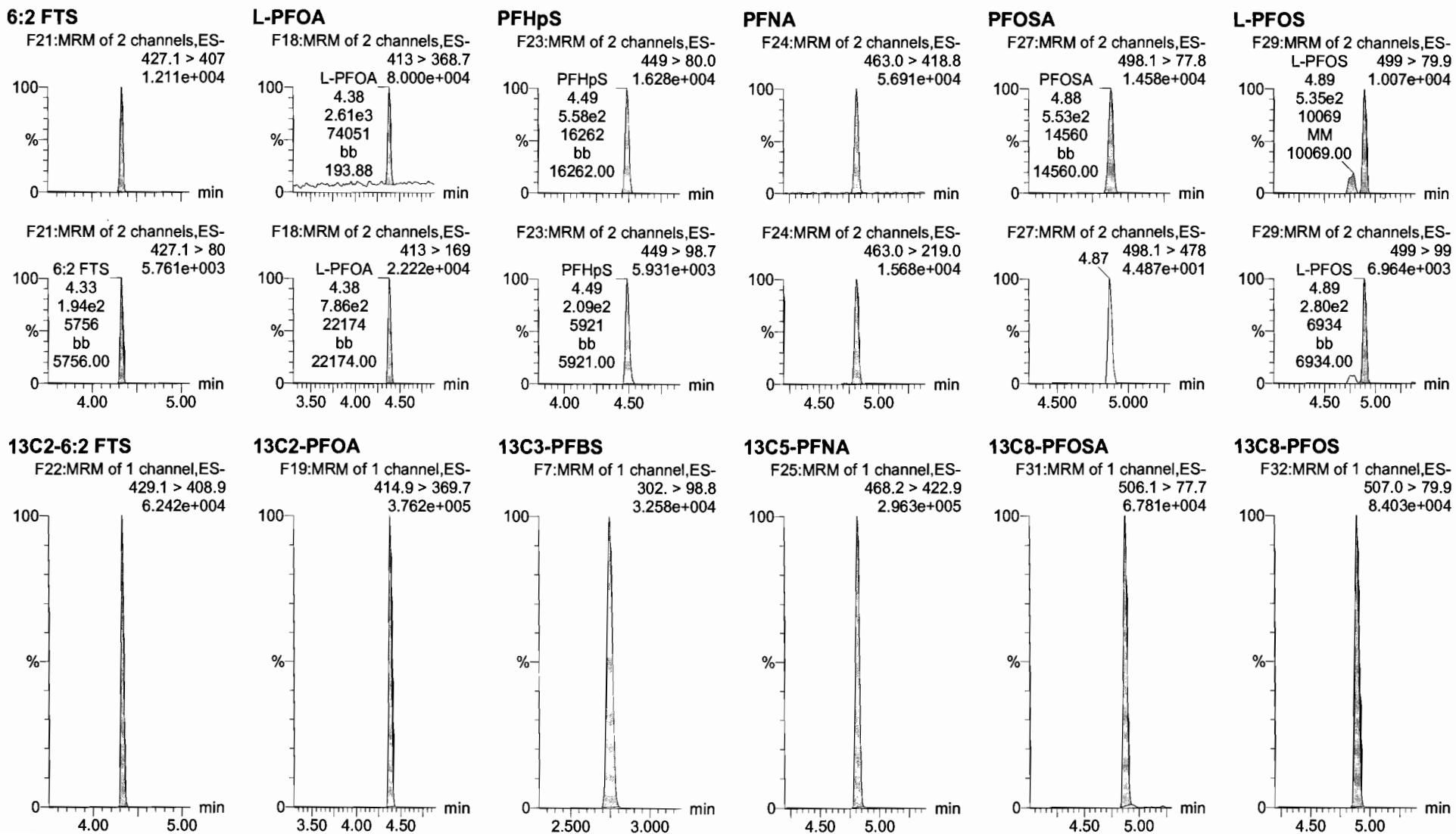


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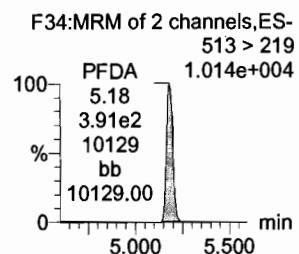
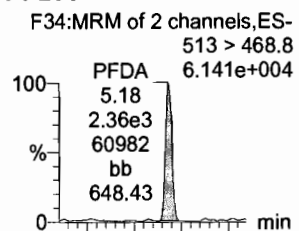
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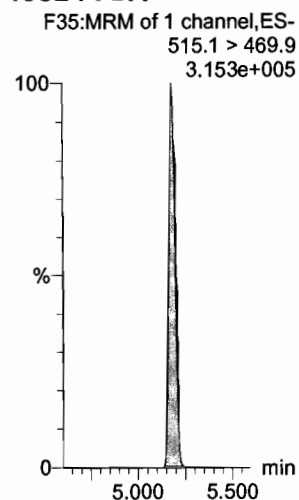
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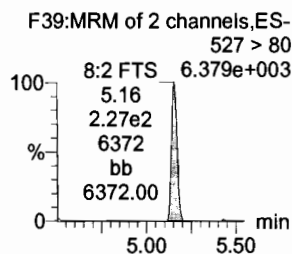
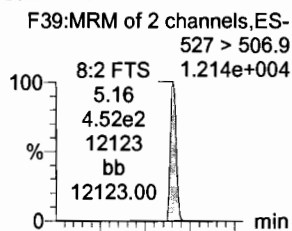
PFDA



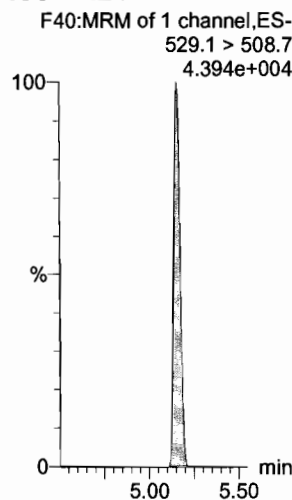
13C2-PFDA



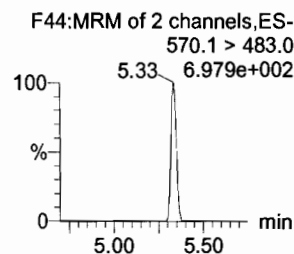
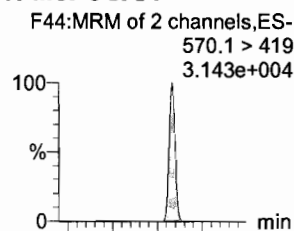
8:2 FTS



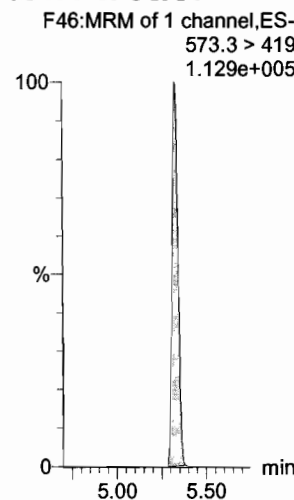
13C2-8:2 FTS



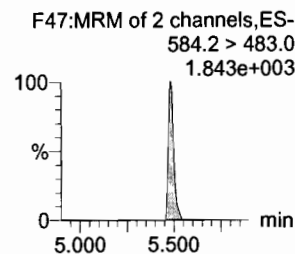
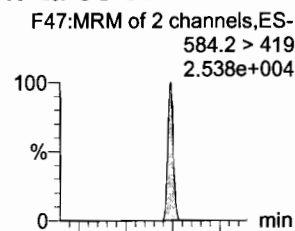
N-MeFOSAA



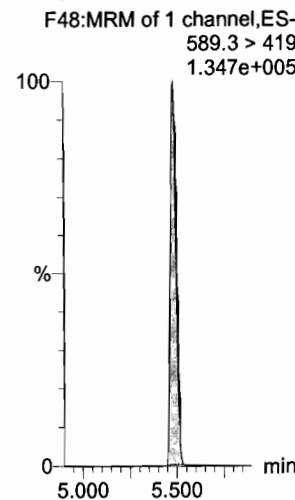
d3-N-MeFOSAA



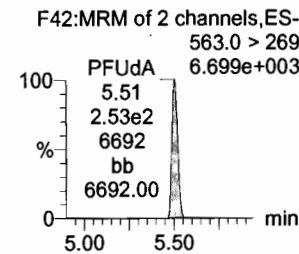
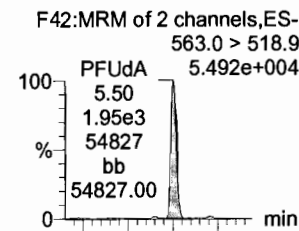
N-EtFOSAA



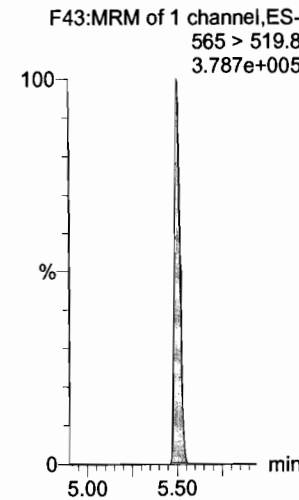
d5-N-EtFOSAA



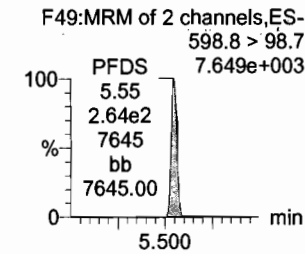
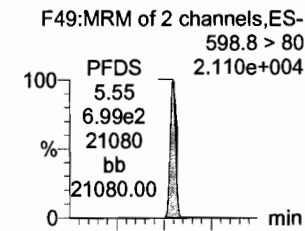
PFUdA



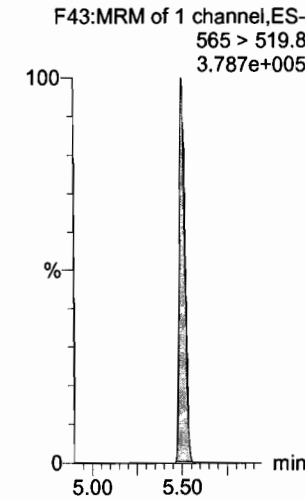
13C2-PFUdA



PFDS



13C2-PFUDa



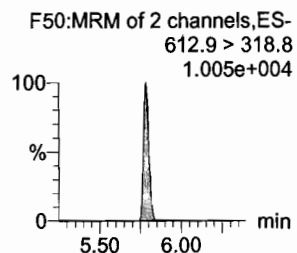
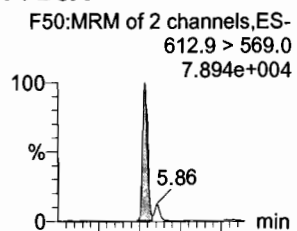
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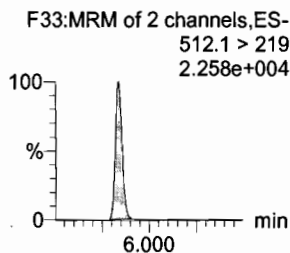
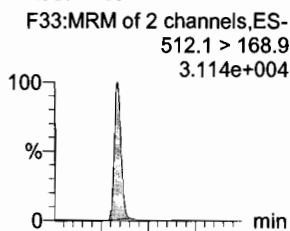
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Name: 180115M2_4, Date: 16-Jan-2018, Time: 00:48:46, ID: ST180115M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

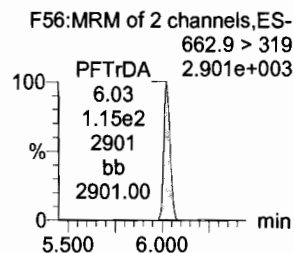
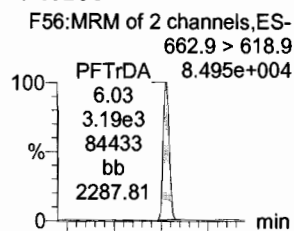
PFDaA



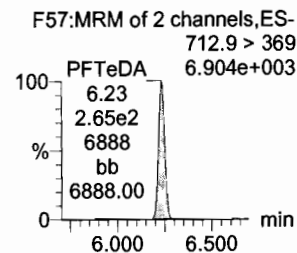
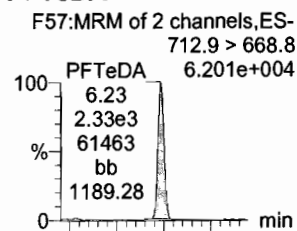
N-MeFOSA



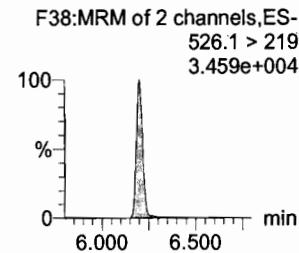
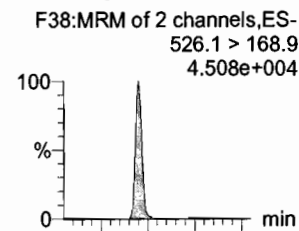
PFTTrDA



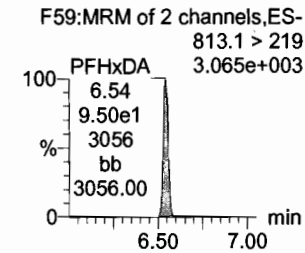
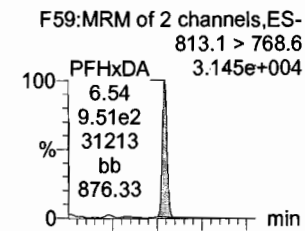
PFTeDA



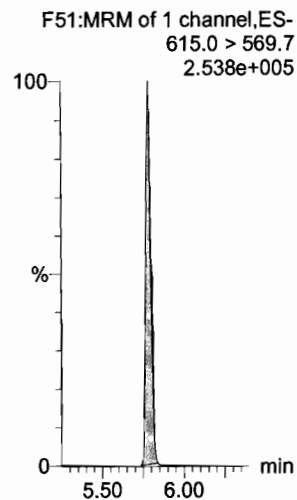
N-EtFOSA



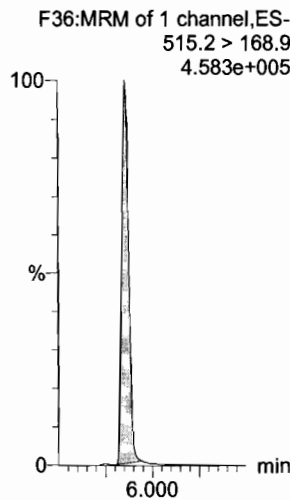
PFHxDA



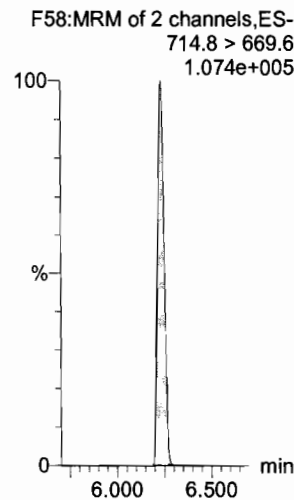
13C2-PFDaA



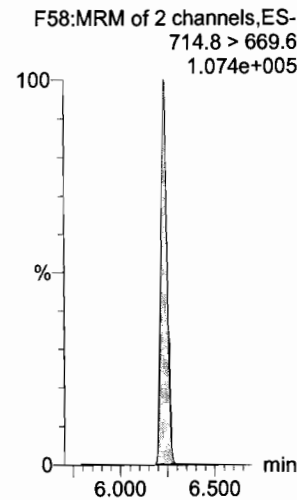
d3-N-MeFOSA



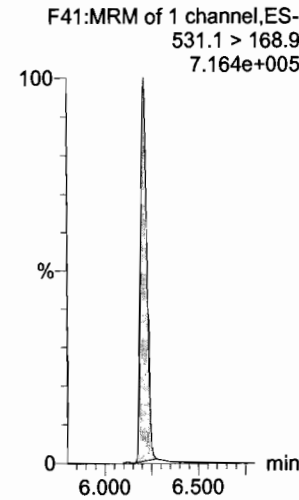
13C2-PFTeDA



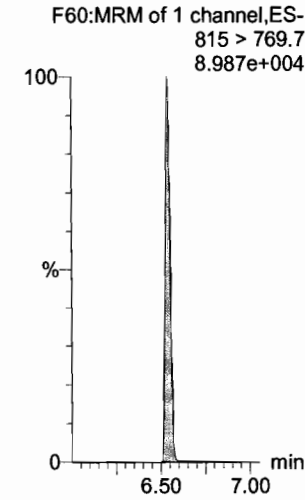
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



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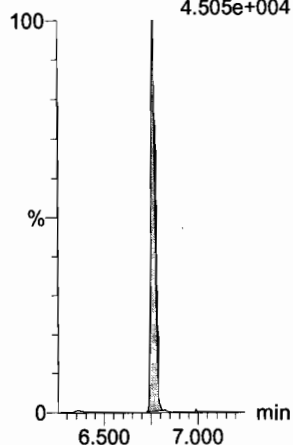
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Name: 180115M2_4, Date: 16-Jan-2018, Time: 00:48:46, ID: ST180115M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

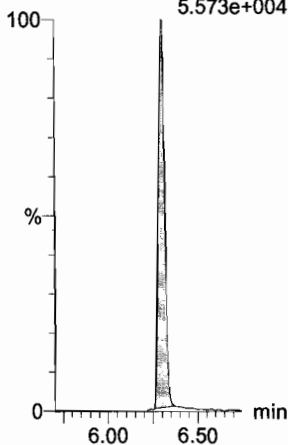
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
4.505e+004



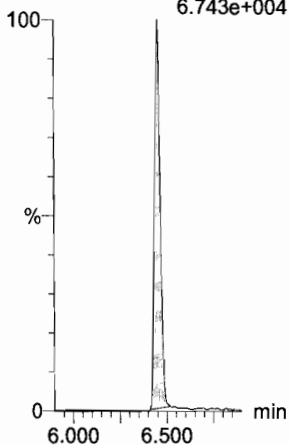
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
5.573e+004



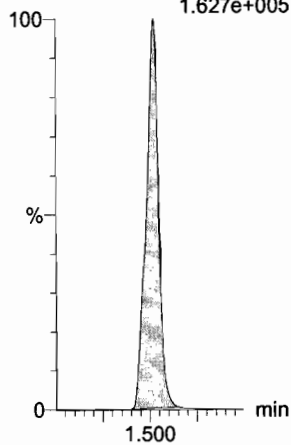
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
6.743e+004



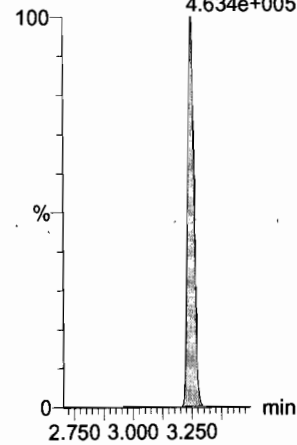
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.627e+005



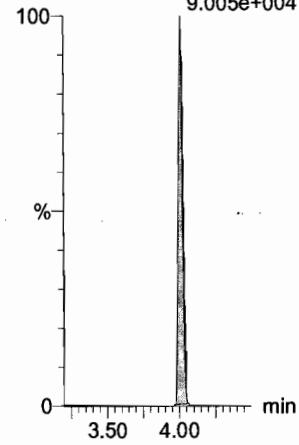
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.634e+005



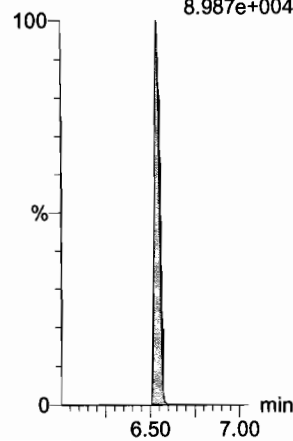
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
9.005e+004



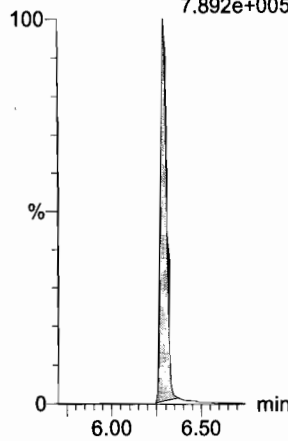
13C2-PFHxDa

F60:MRM of 1 channel,ES-
815 > 769.7
8.987e+004



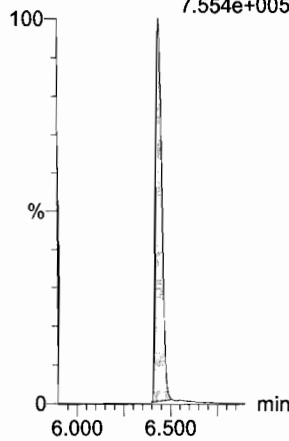
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
7.892e+005



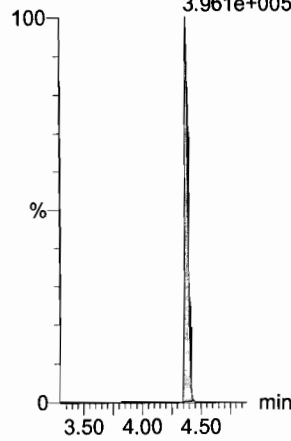
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
7.554e+005



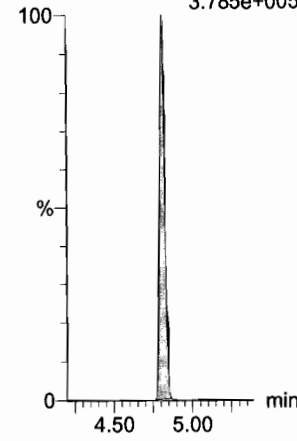
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.961e+005



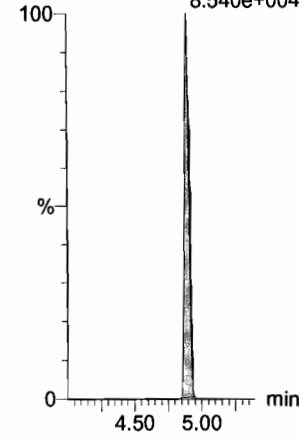
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.785e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
8.540e+004



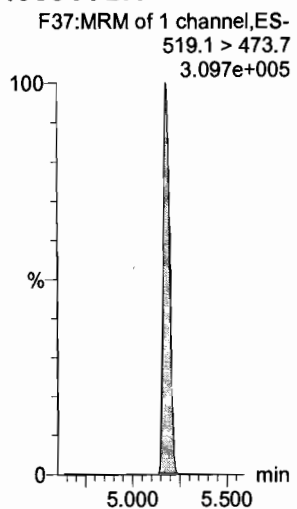
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

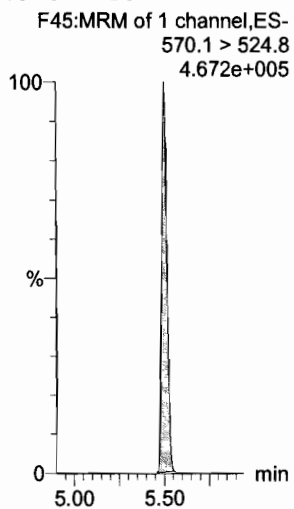
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Name: 180115M2_4, Date: 16-Jan-2018, Time: 00:48:46, ID: ST180115M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609

13C6-PFDA



13C7-PFUdA



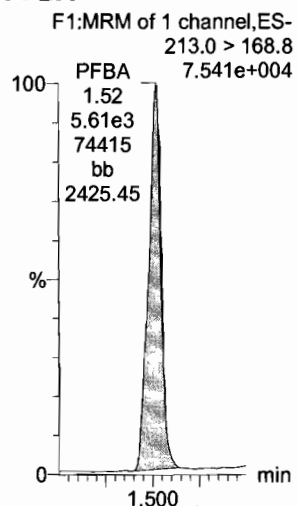
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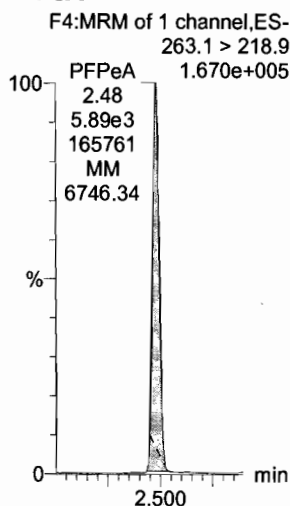
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Name: 180115M2_5, Date: 16-Jan-2018, Time: 01:00:17, ID: ST180115M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

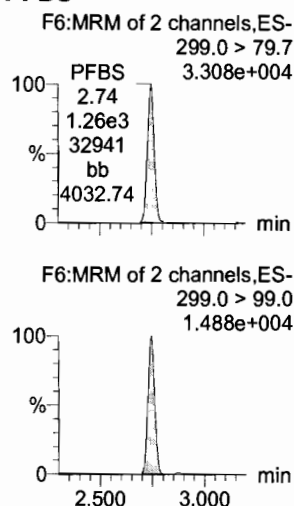
PFBA



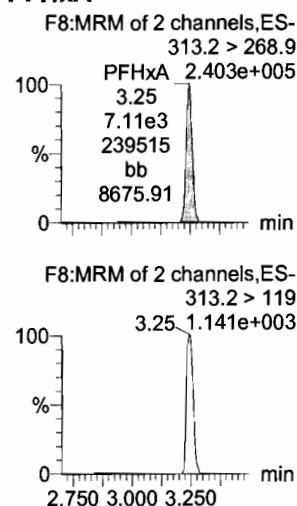
PFPeA



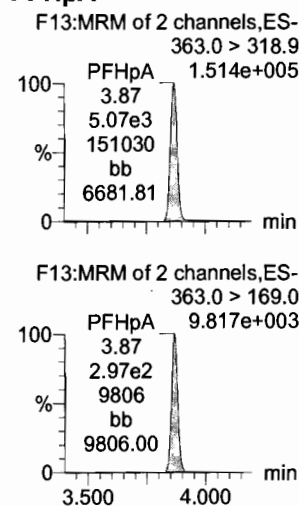
PFBS



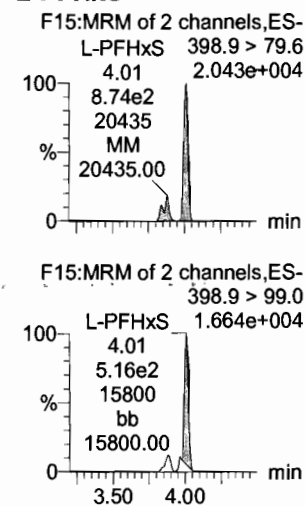
PFHxA



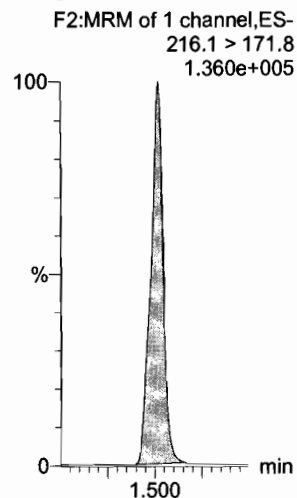
PFHpA



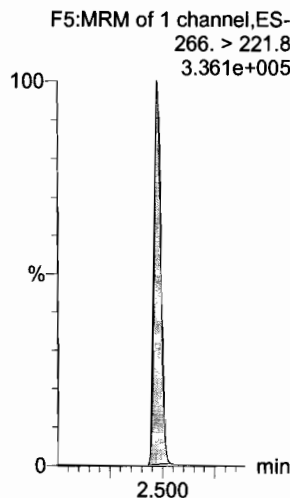
L-PFHxS



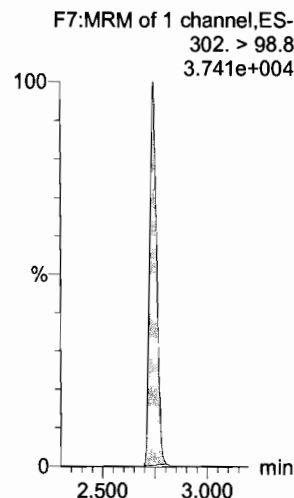
13C3-PFBA



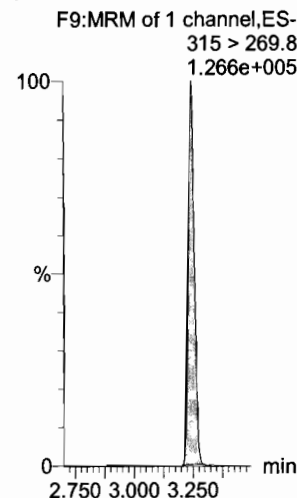
13C3-PFPeA



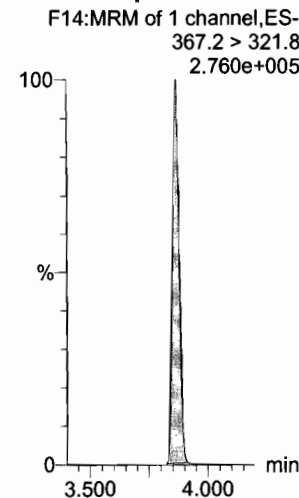
13C3-PFBS



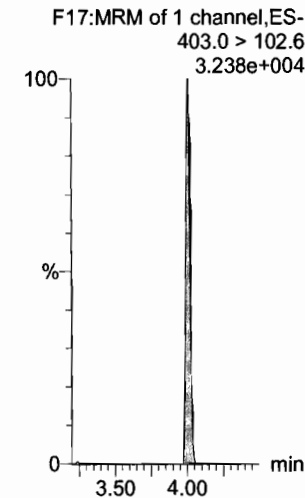
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



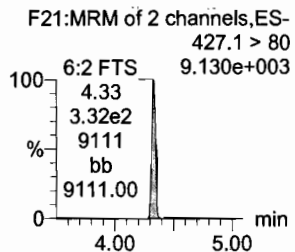
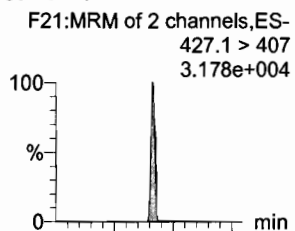
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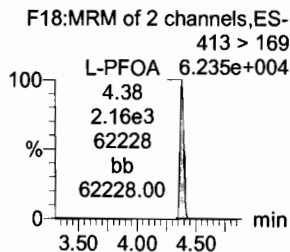
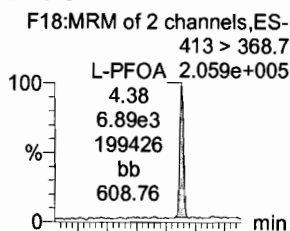
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Name: 180115M2_5, Date: 16-Jan-2018, Time: 01:00:17, ID: ST180115M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

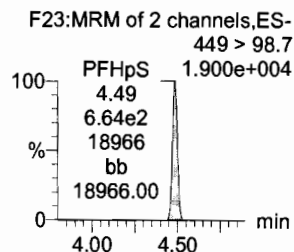
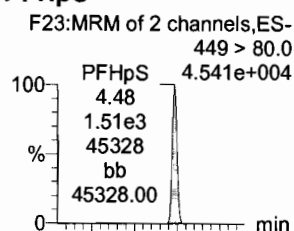
6:2 FTS



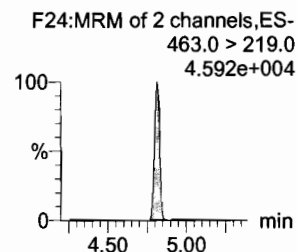
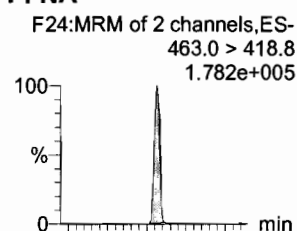
L-PFOA



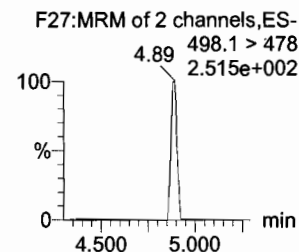
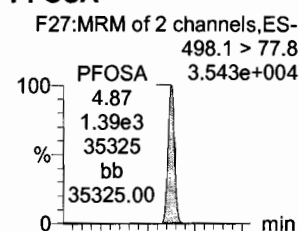
PFHpS



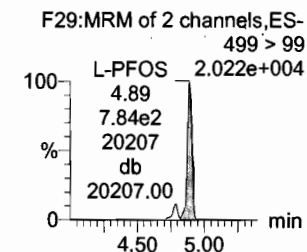
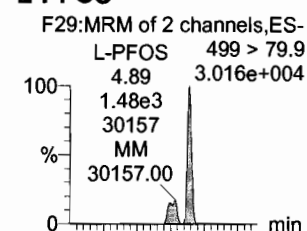
PFNA



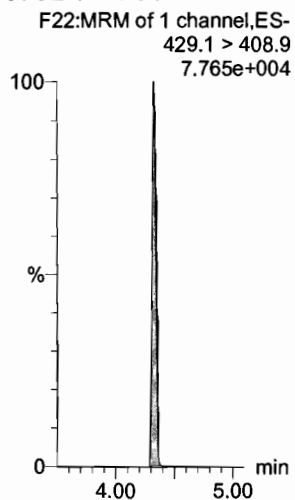
PFOSA



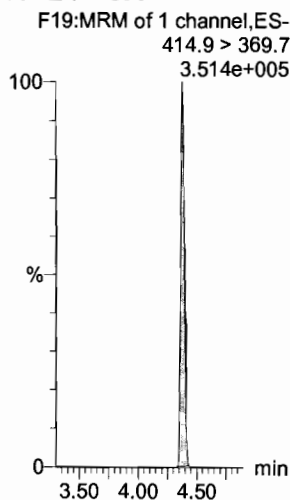
L-PFOS



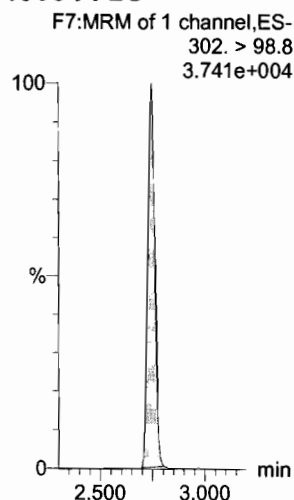
13C2-6:2 FTS



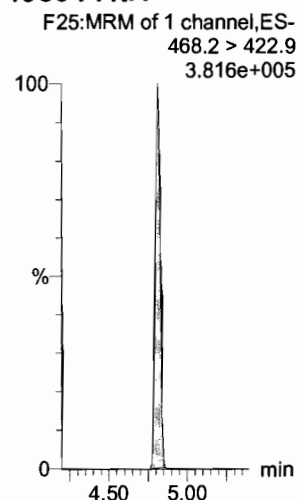
13C2-PFOA



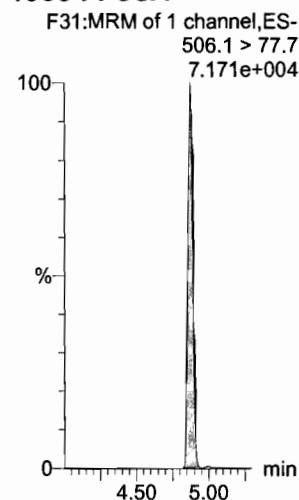
13C3-PFBs



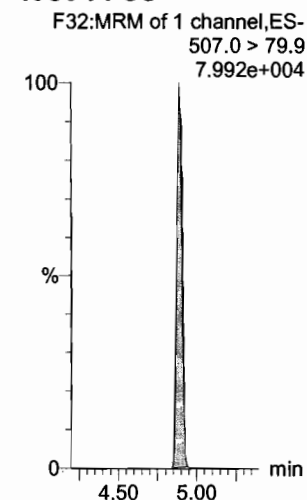
13C5-PFNA



13C8-PFOSA



13C8-PFOS



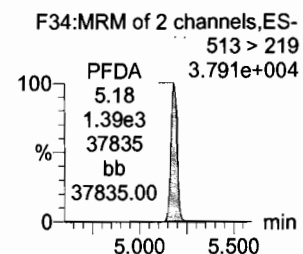
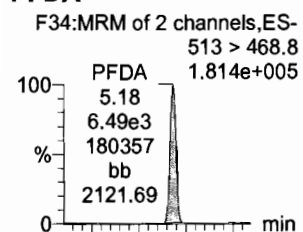
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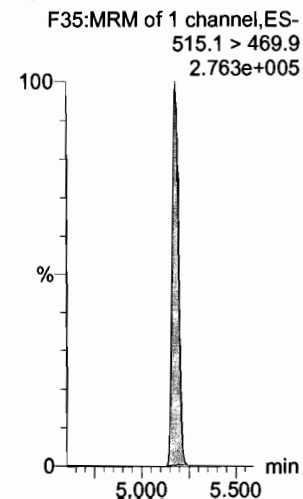
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Name: 180115M2_5, Date: 16-Jan-2018, Time: 01:00:17, ID: ST180115M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

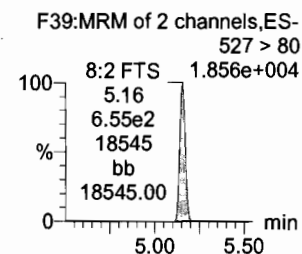
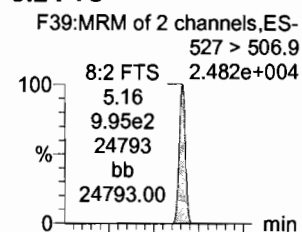
PFDA



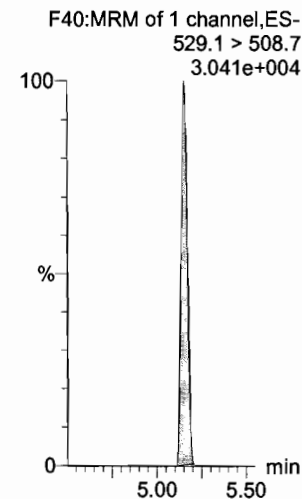
13C2-PFDA



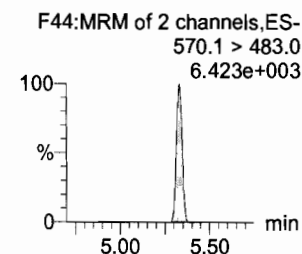
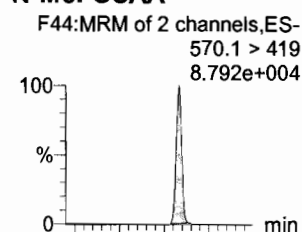
8:2 FTS



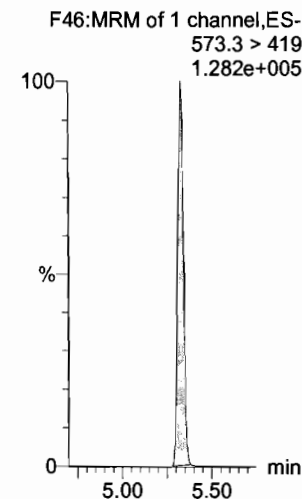
13C2-8:2 FTS



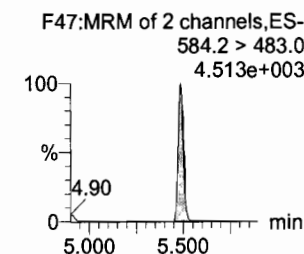
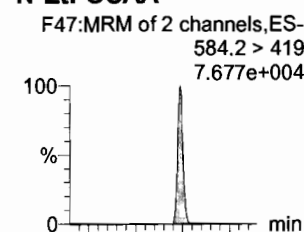
N-MeFOSAA



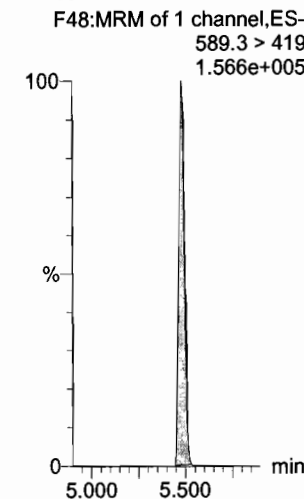
d3-N-MeFOSAA



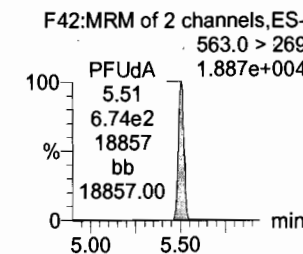
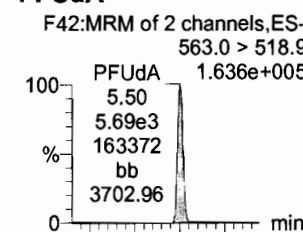
N-EtFOSAA



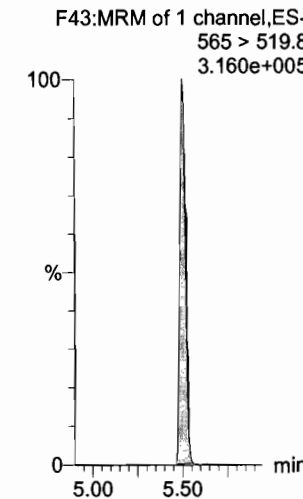
d5-N-EtFOSAA



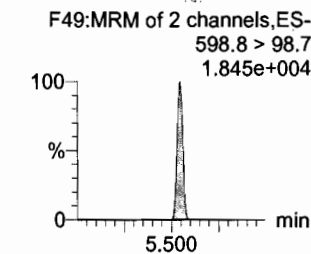
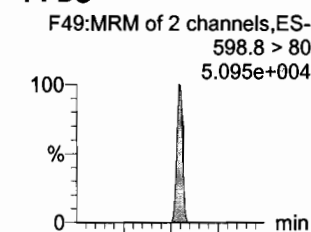
PFUdA



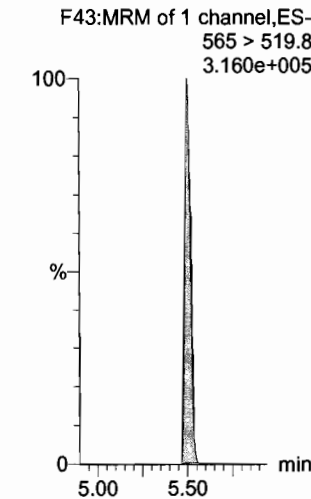
13C2-PFUdA



PFDS



13C2-PFUdA



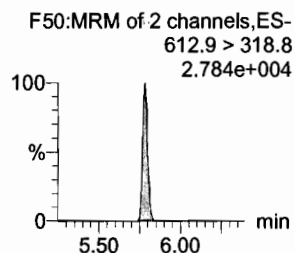
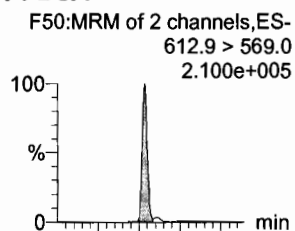
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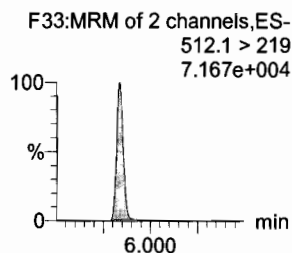
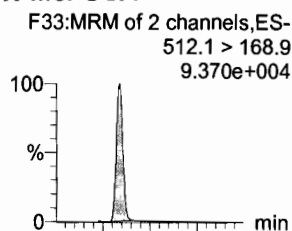
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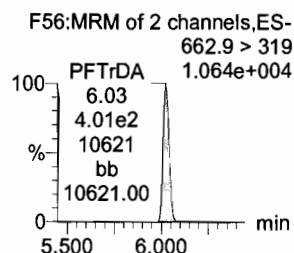
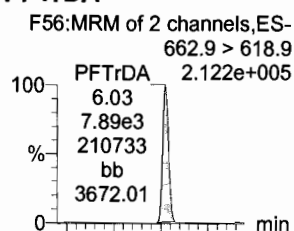
PFDaA



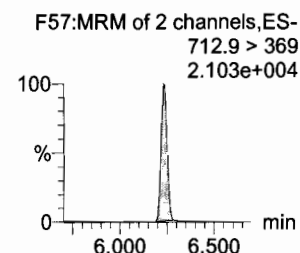
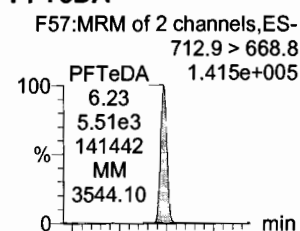
N-MeFOSA



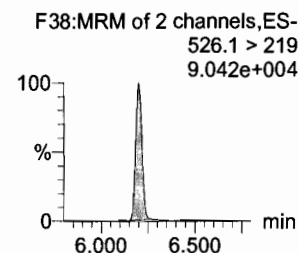
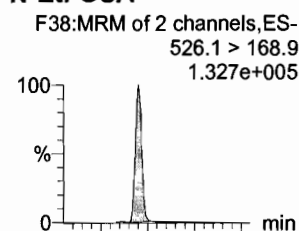
PFTTrDA



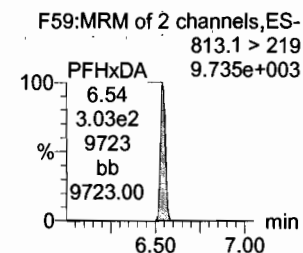
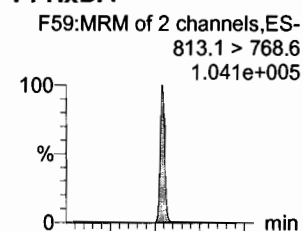
PFTeDA



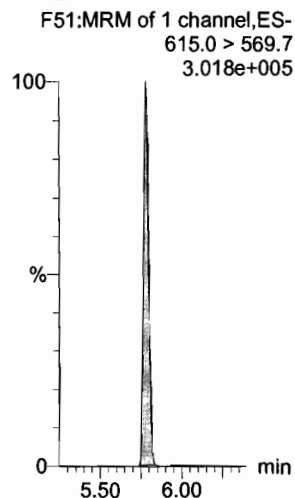
N-EtFOSA



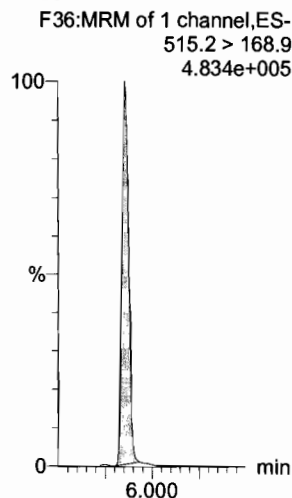
PFHxDA



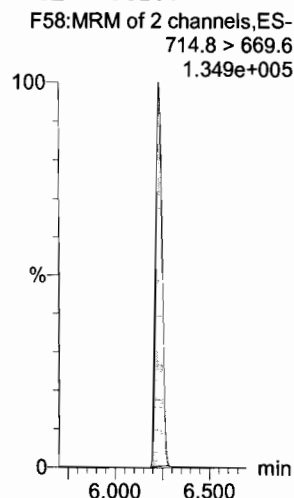
13C2-PFDaA



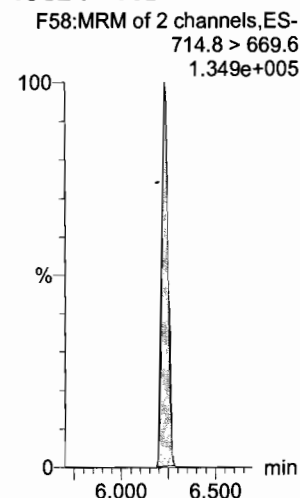
d3-N-MeFOSA



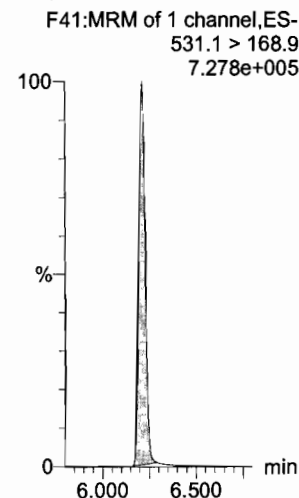
13C2-PFTeDA



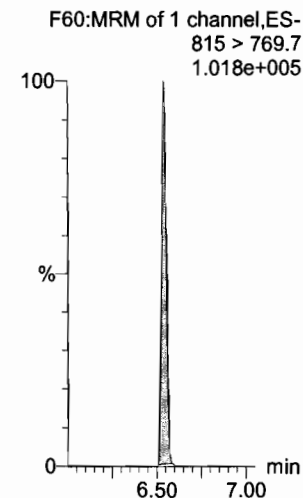
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

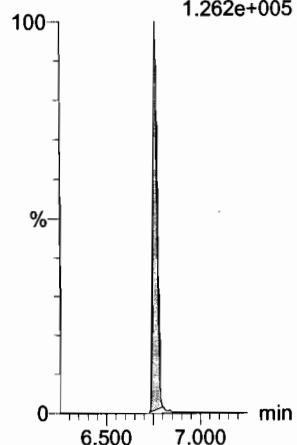
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Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_5, Date: 16-Jan-2018, Time: 01:00:17, ID: ST180115M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

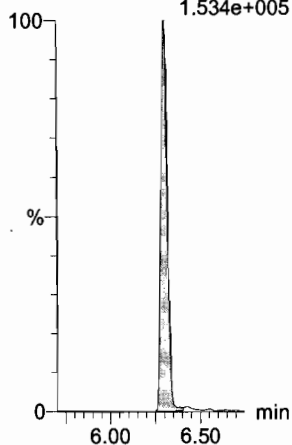
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
1.262e+005



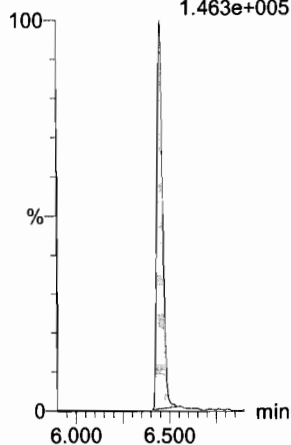
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
1.534e+005



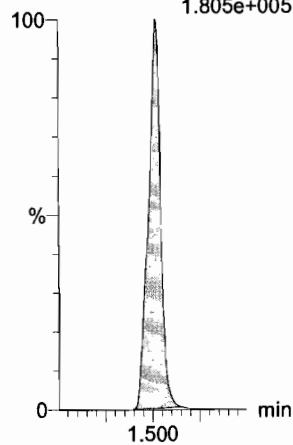
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
1.463e+005



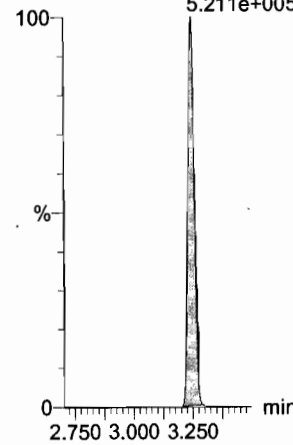
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.805e+005



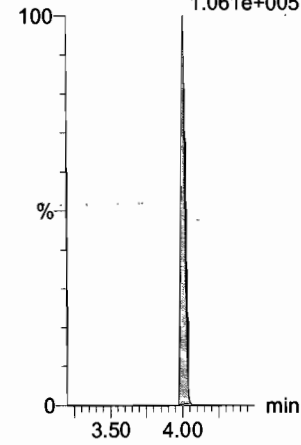
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
5.211e+005



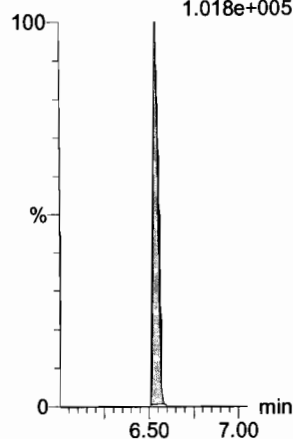
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
1.061e+005



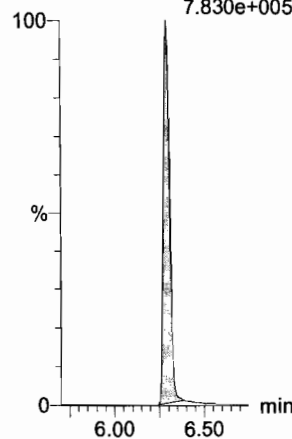
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.018e+005



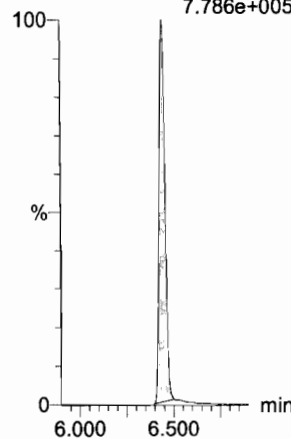
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
7.830e+005



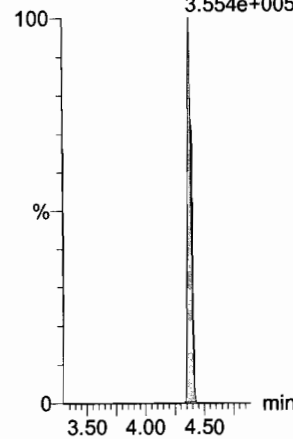
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
7.786e+005



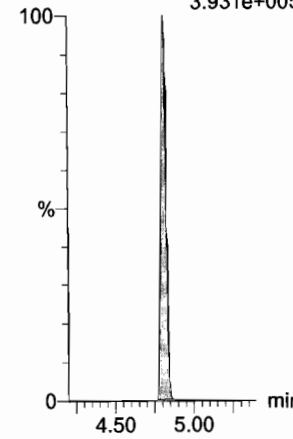
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.554e+005



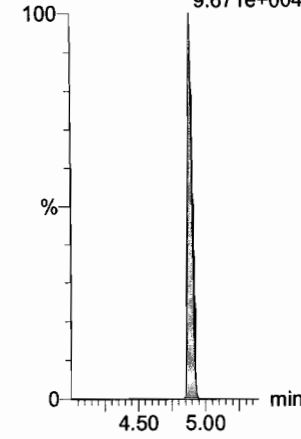
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.931e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
9.671e+004



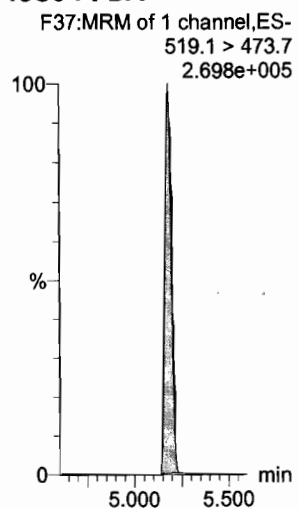
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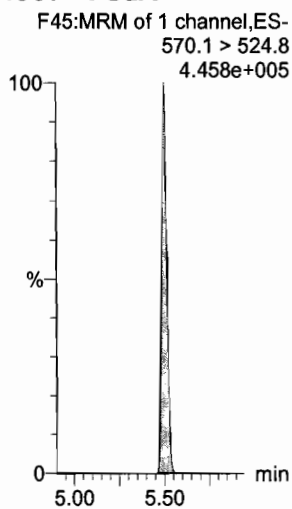
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Name: 180115M2_5, Date: 16-Jan-2018, Time: 01:00:17, ID: ST180115M2-5 PFC CS2 17L2610, Description: PFC CS2 17L2610

13C6-PFDA



13C7-PFUDa



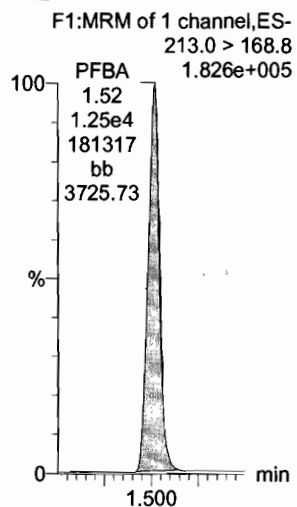
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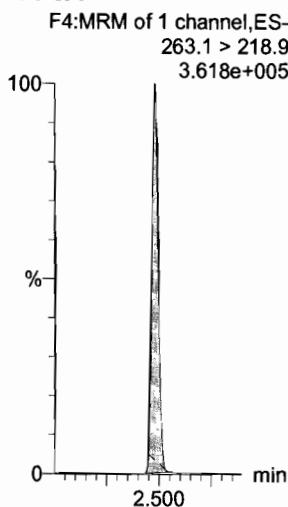
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Name: 180115M2_6, Date: 16-Jan-2018, Time: 01:11:44, ID: ST180115M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

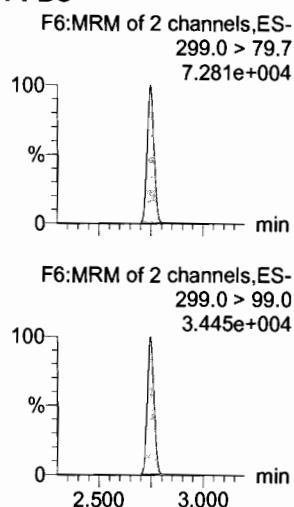
PFBA



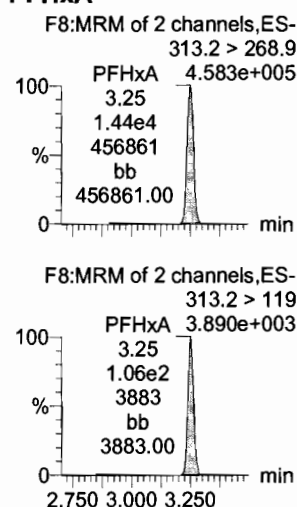
PFPeA



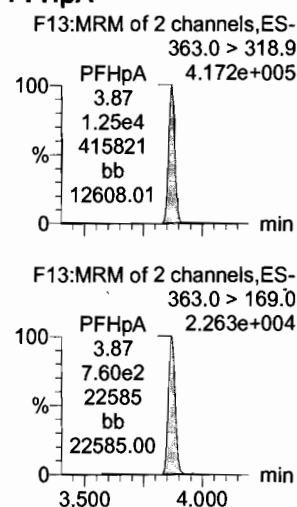
PFBS



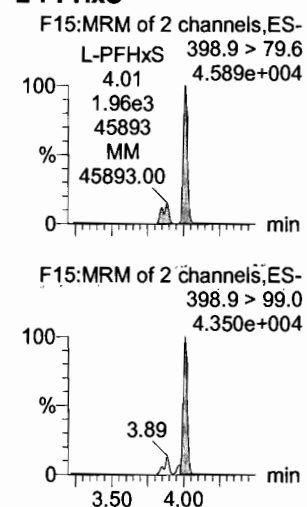
PFHxA



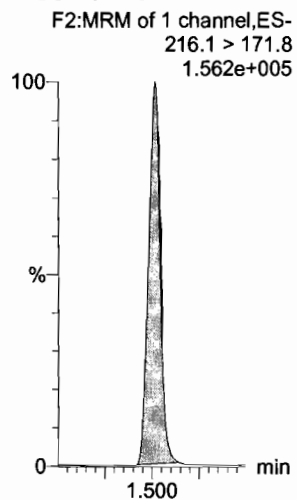
PFHpA



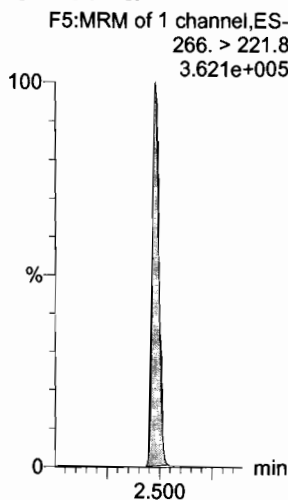
L-PFHxS



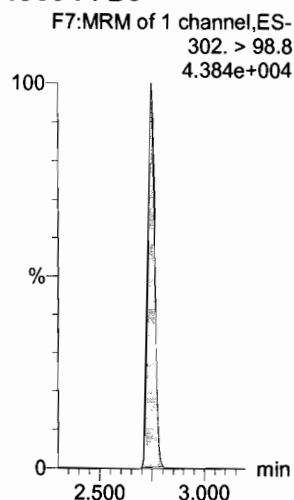
13C3-PFBA



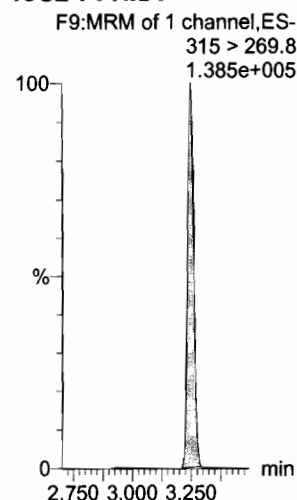
13C3-PFPeA



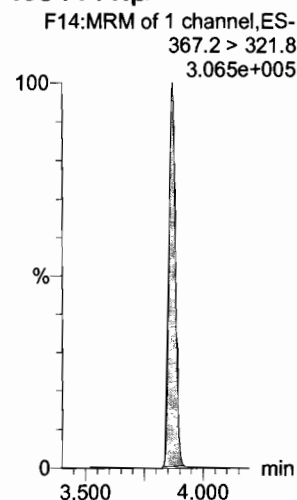
13C3-PFBS



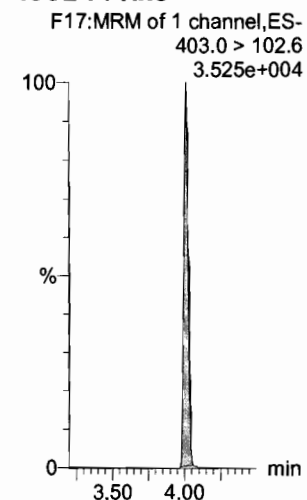
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

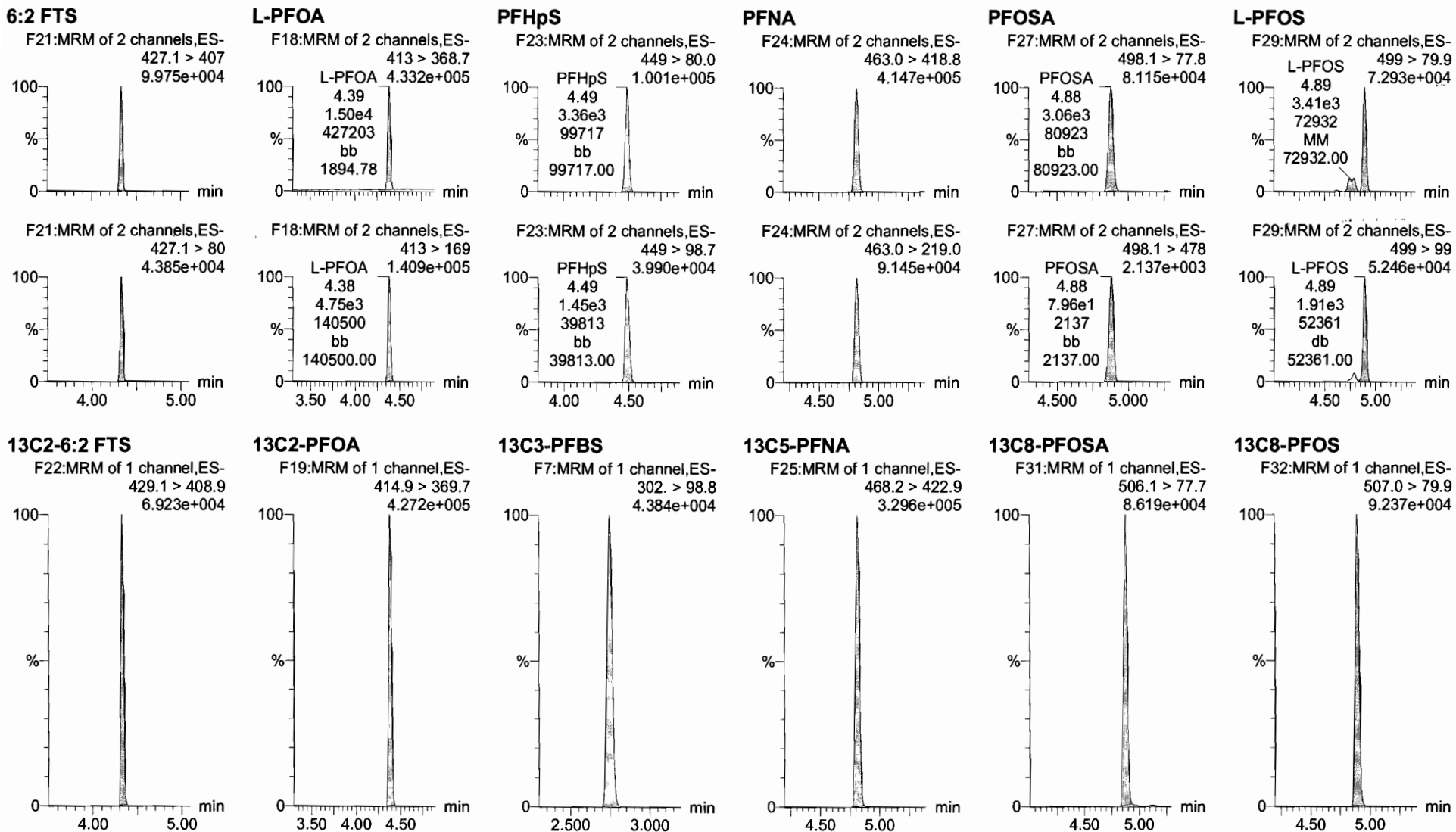


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Name: 180115M2_6, Date: 16-Jan-2018, Time: 01:11:44, ID: ST180115M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611



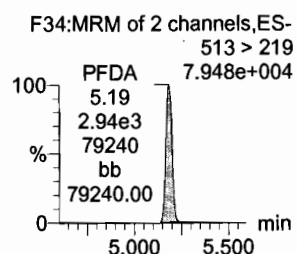
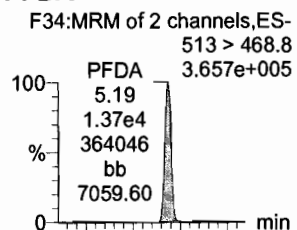
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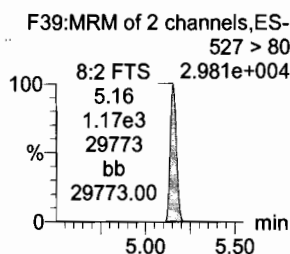
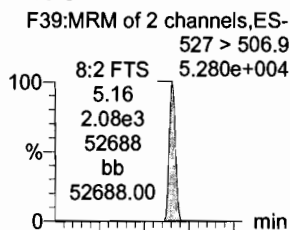
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Name: 180115M2_6, Date: 16-Jan-2018, Time: 01:11:44, ID: ST180115M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

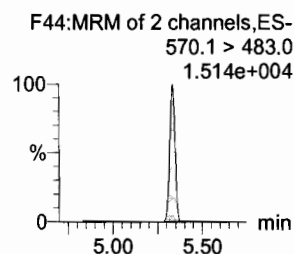
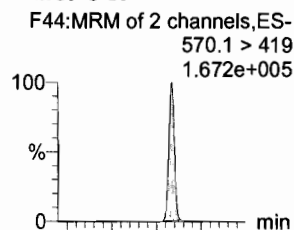
PFDA



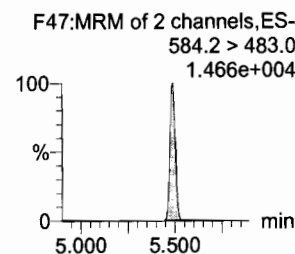
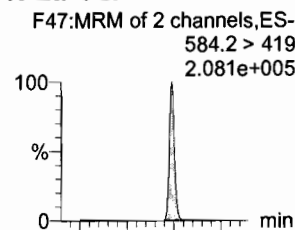
8:2 FTS



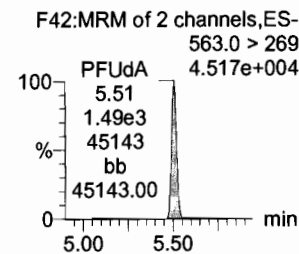
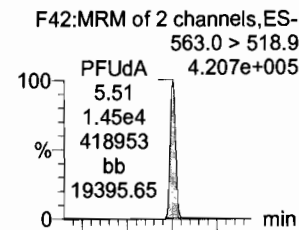
N-MeFOSAA



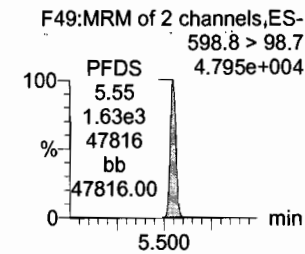
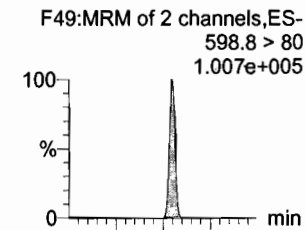
N-EtFOSAA



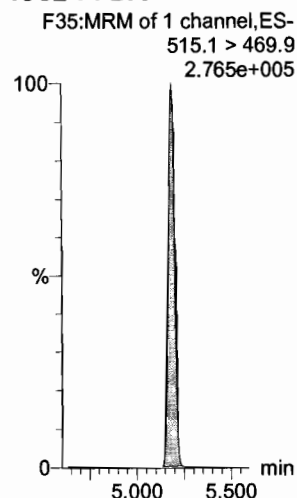
PFUdA



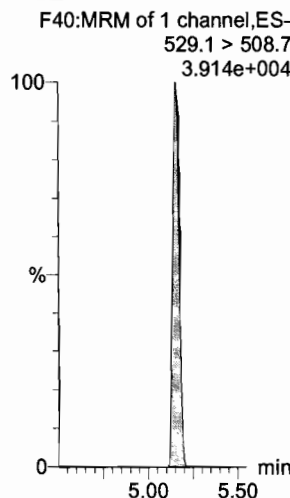
PFDS



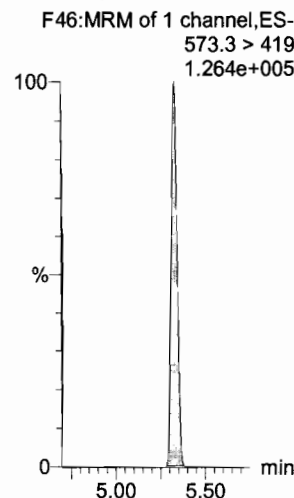
13C2-PFDA



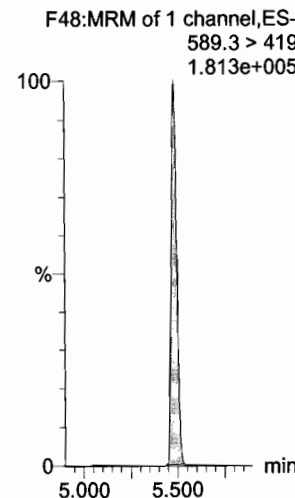
13C2-8:2 FTS



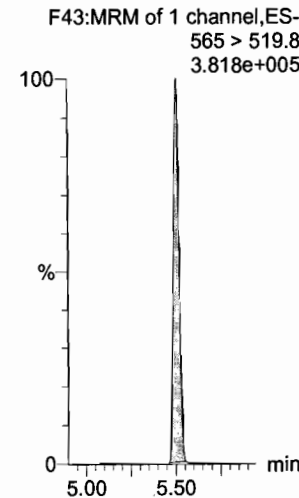
d3-N-MeFOSAA



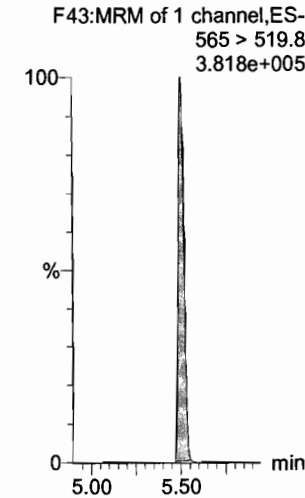
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



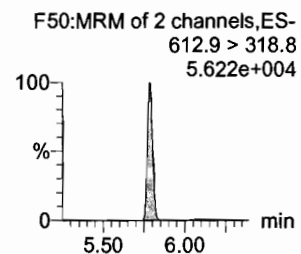
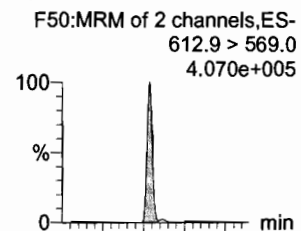
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

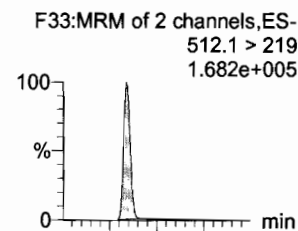
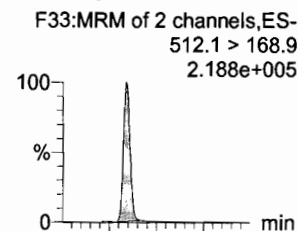
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Name: 180115M2_6, Date: 16-Jan-2018, Time: 01:11:44, ID: ST180115M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

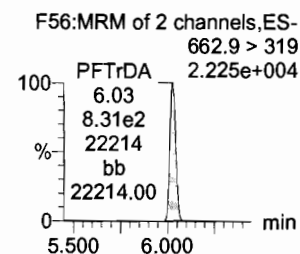
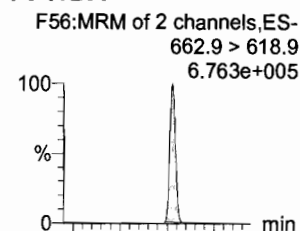
PFDaA



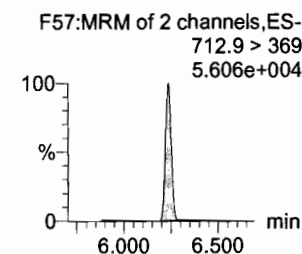
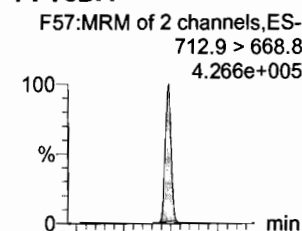
N-MeFOSA



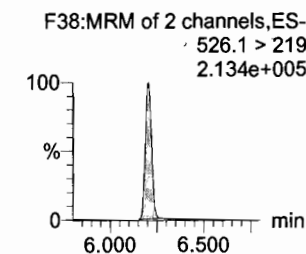
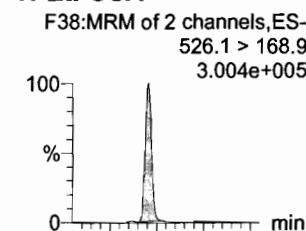
PFTTrDA



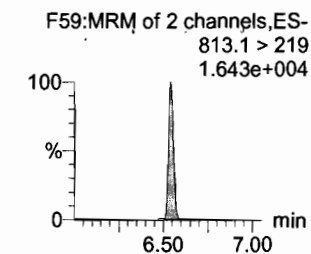
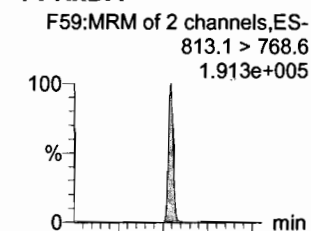
PFTeDA



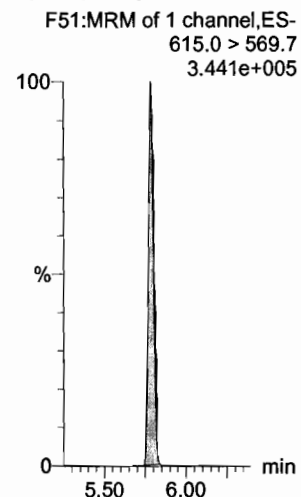
N-EtFOSA



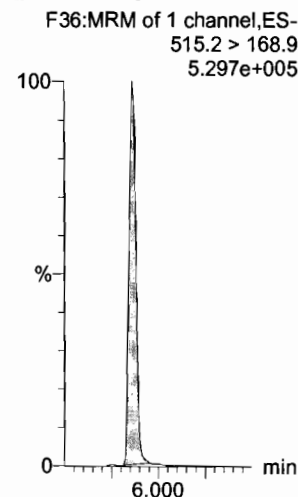
PFHxDA



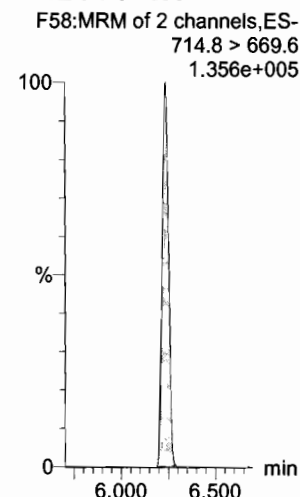
13C2-PFDaA



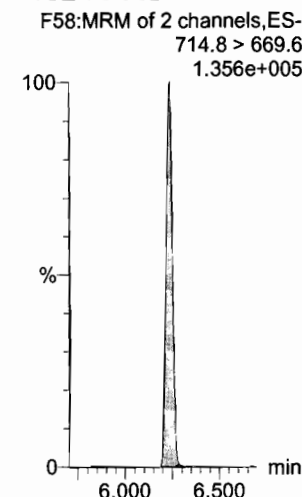
d3-N-MeFOSA



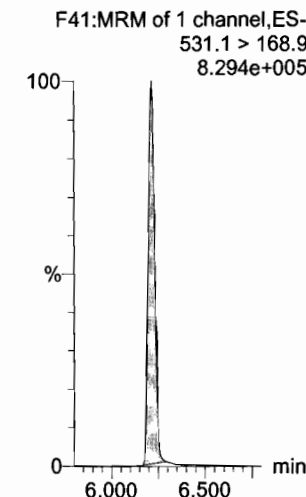
13C2-PFTeDA



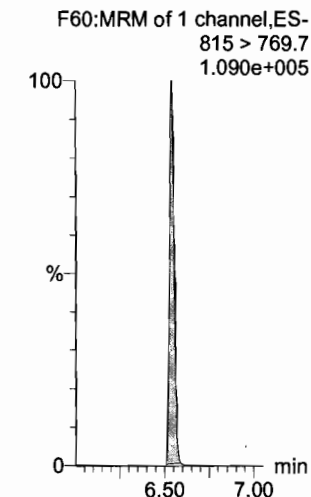
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

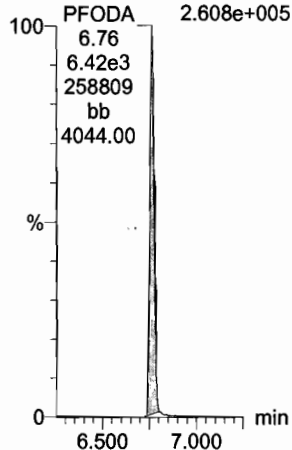
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_6, Date: 16-Jan-2018, Time: 01:11:44, ID: ST180115M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

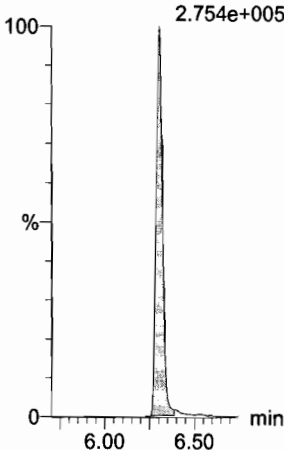
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.608e+005



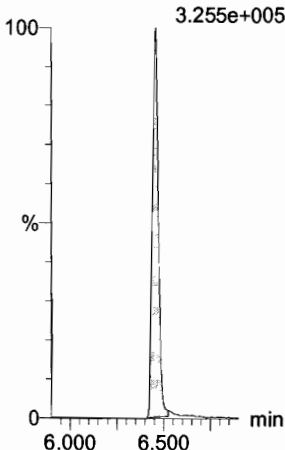
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
2.754e+005



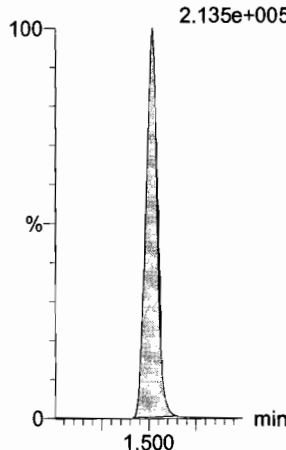
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
3.255e+005



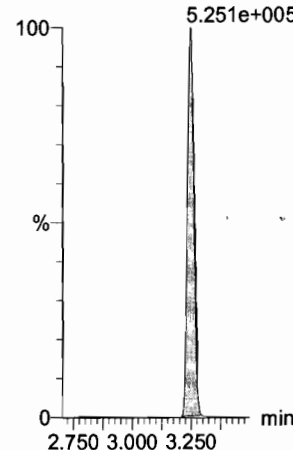
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
2.135e+005



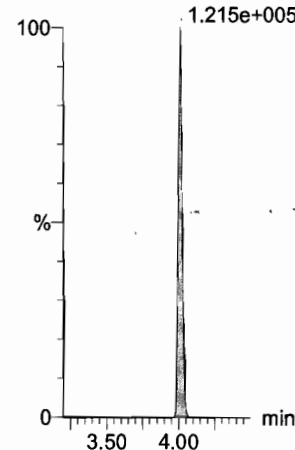
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
5.251e+005



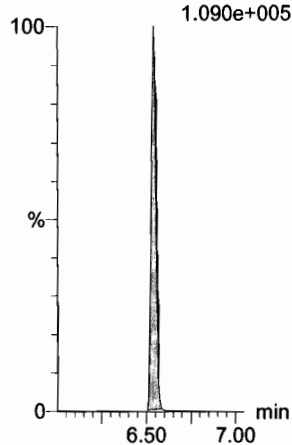
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
1.215e+005



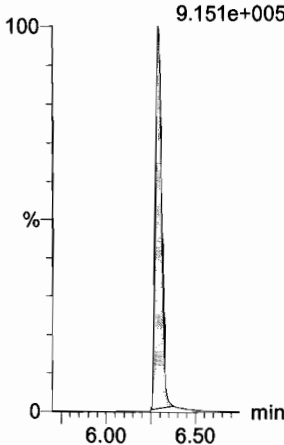
13C2-PFHxD

F60:MRM of 1 channel,ES-
815 > 769.7
1.090e+005



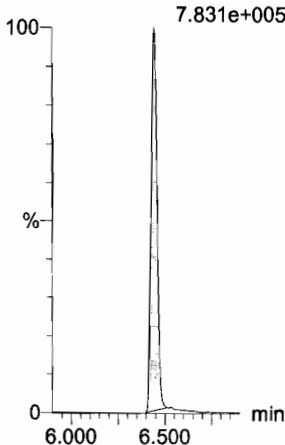
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
9.151e+005



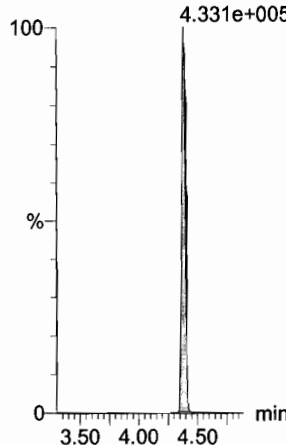
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
7.831e+005



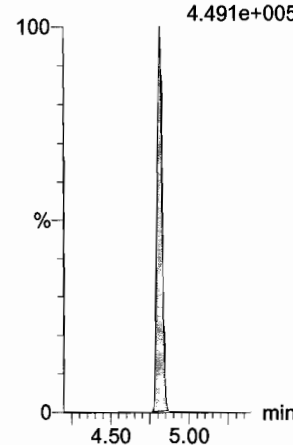
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
4.331e+005



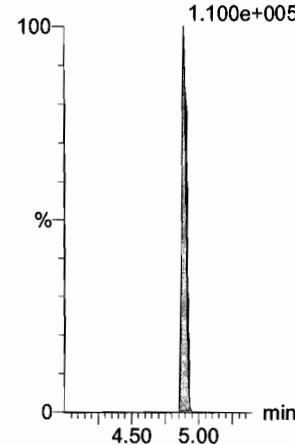
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.491e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
1.100e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

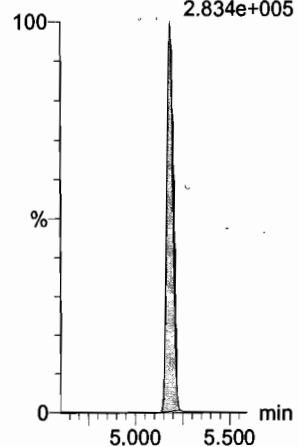
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_6, Date: 16-Jan-2018, Time: 01:11:44, ID: ST180115M2-6 PFC CS3 17L2611, Description: PFC CS3 17L2611

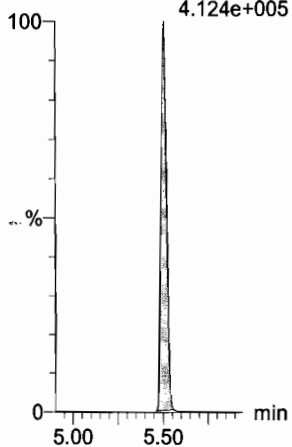
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.834e+005



13C7-PFUDa

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.124e+005



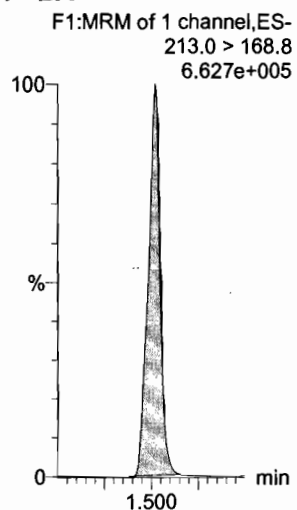
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

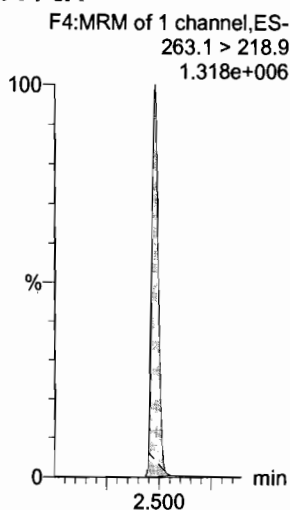
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

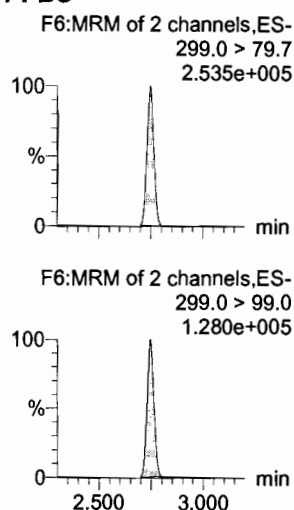
PFBA



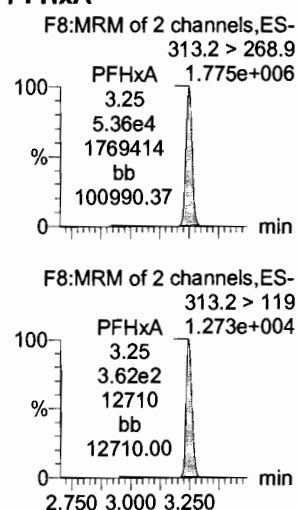
PFPeA



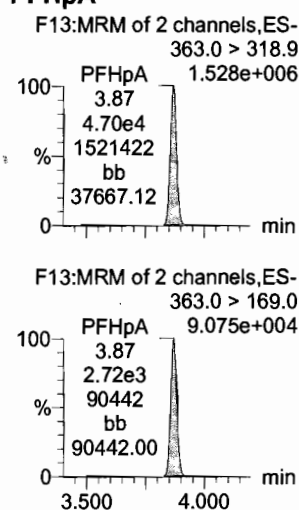
PFBS



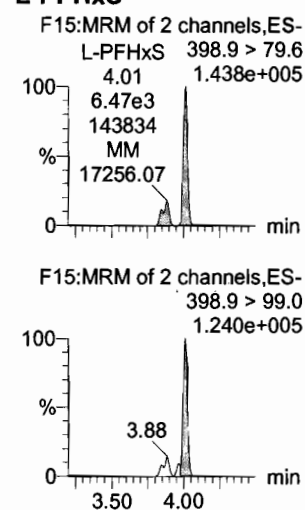
PFHxA



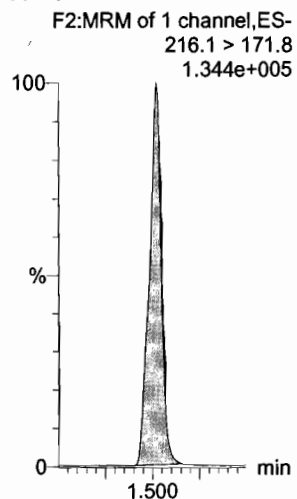
PFHpA



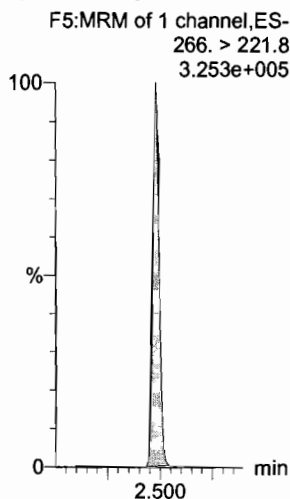
L-PFHxS



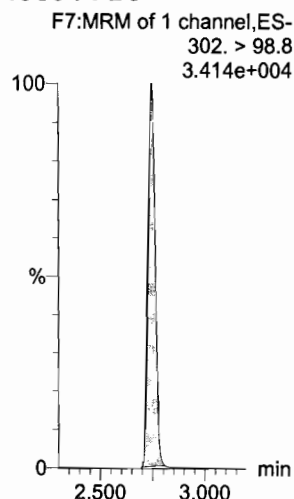
13C3-PFBA



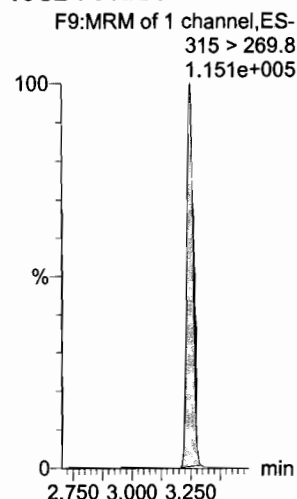
13C3-PFPeA



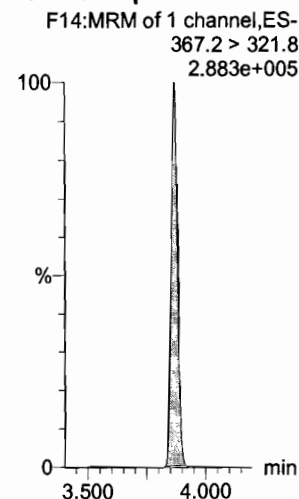
13C3-PFBS



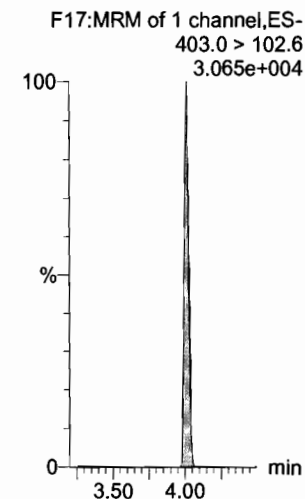
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



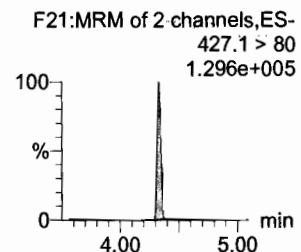
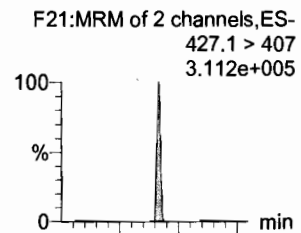
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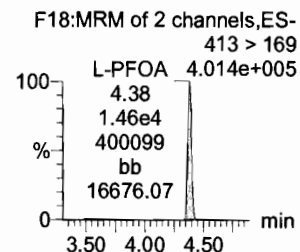
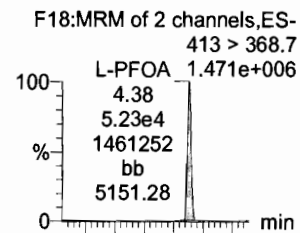
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Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

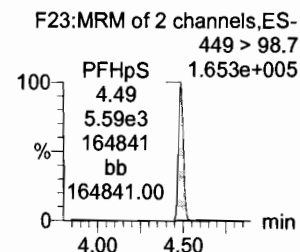
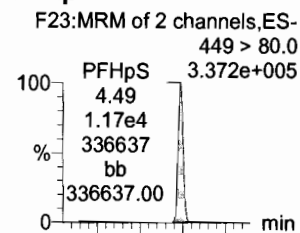
6:2 FTS



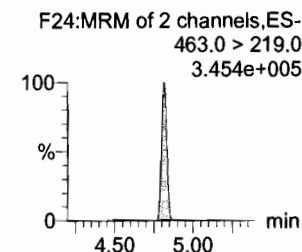
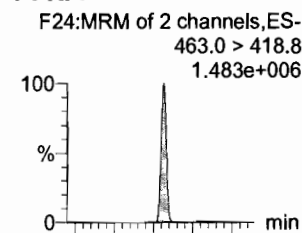
L-PFOA



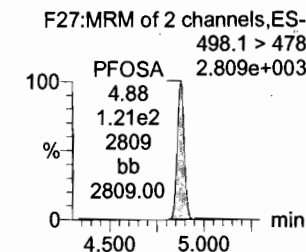
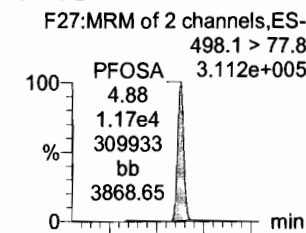
PFHpS



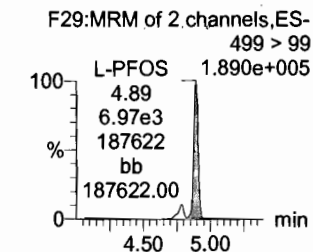
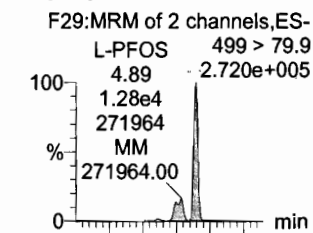
PFNA



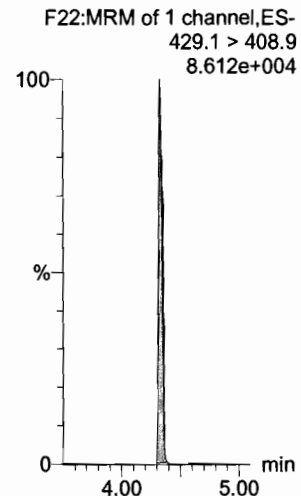
PFOSA



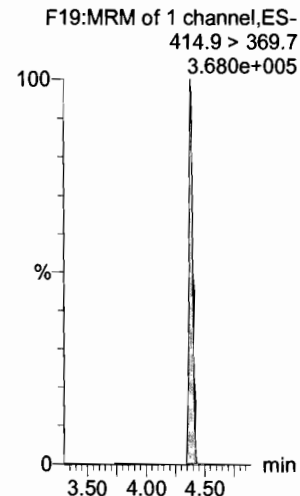
L-PFOS



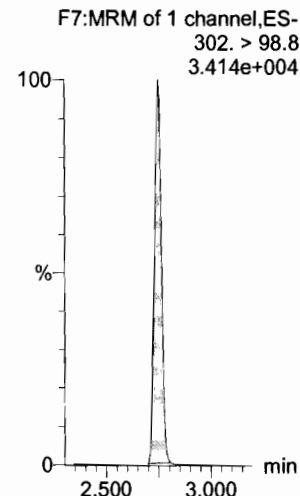
13C2-6:2 FTS



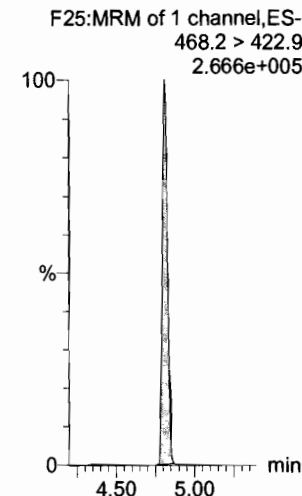
13C2-PFOA



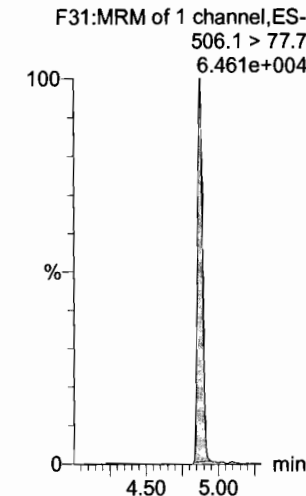
13C3-PFBS



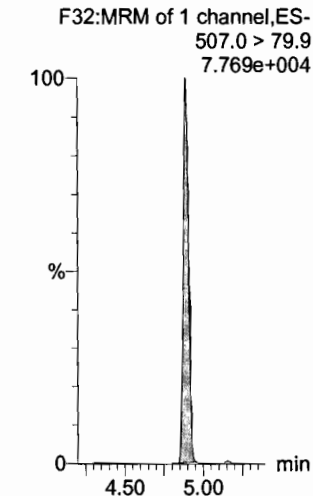
13C5-PFNA



13C8-PFOSA



13C8-PFOS



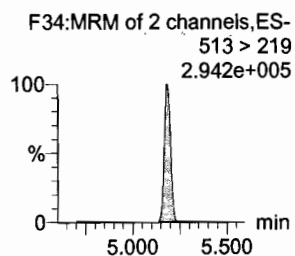
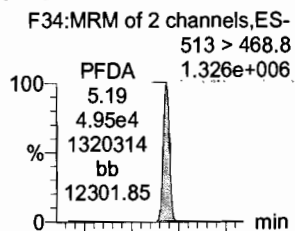
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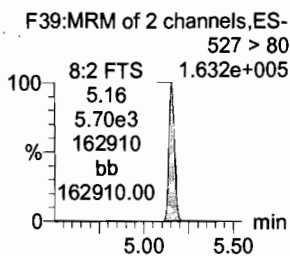
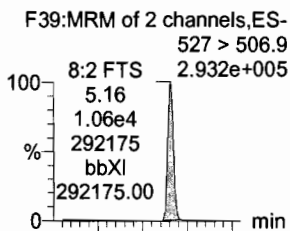
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Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

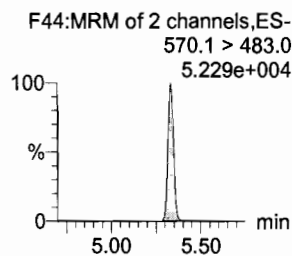
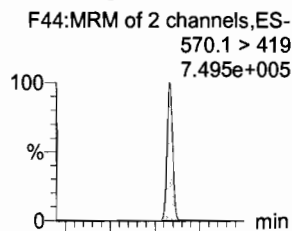
PFDA



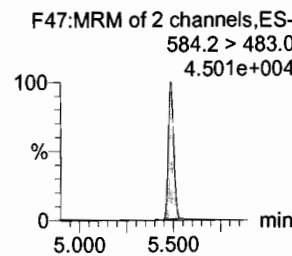
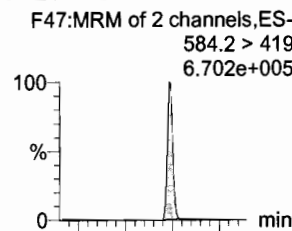
8:2 FTS



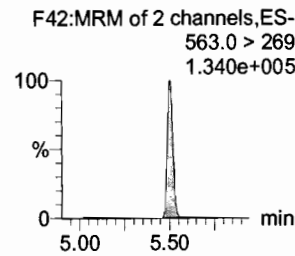
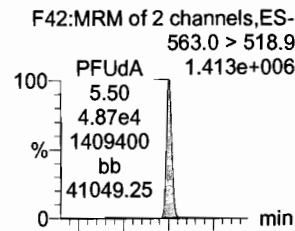
N-MeFOSAA



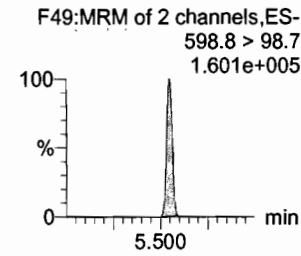
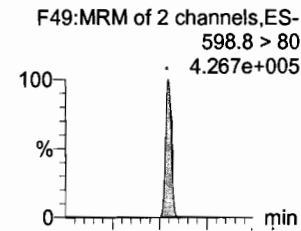
N-EtFOSAA



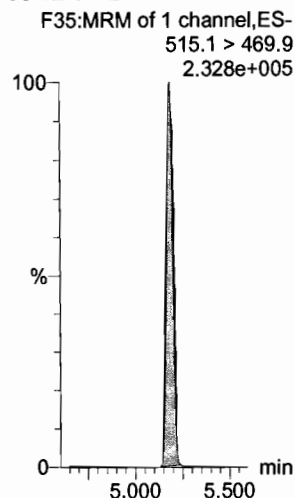
PFUdA



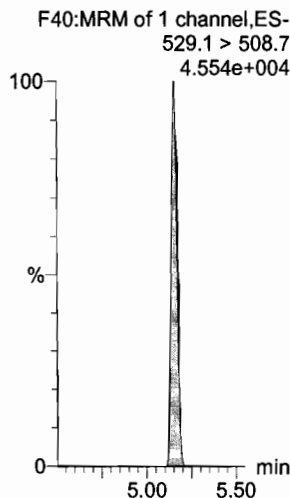
PFDS



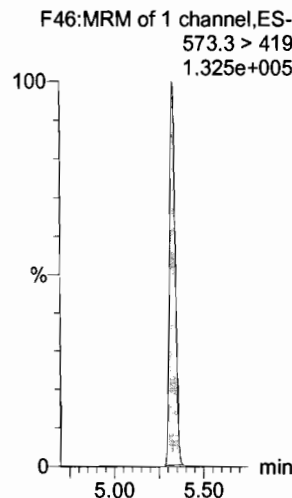
13C2-PFDA



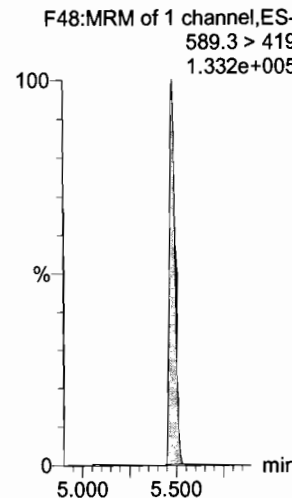
13C2-8:2 FTS



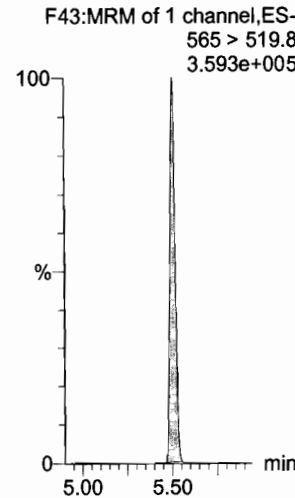
d3-N-MeFOSAA



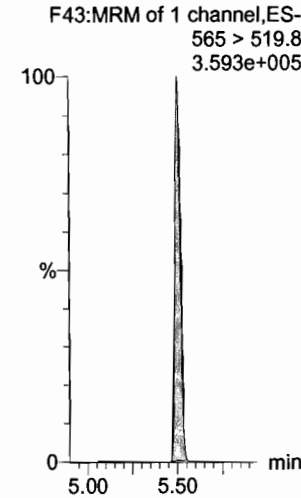
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



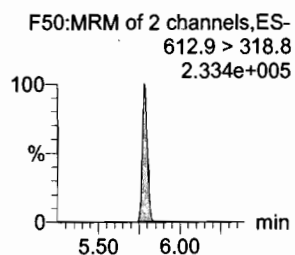
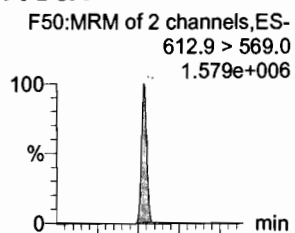
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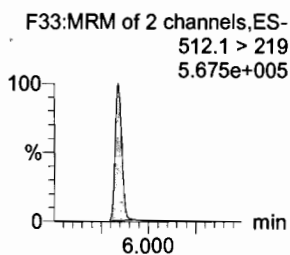
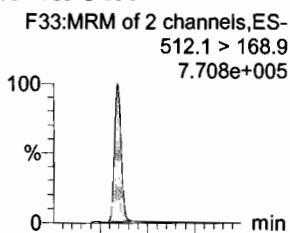
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Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

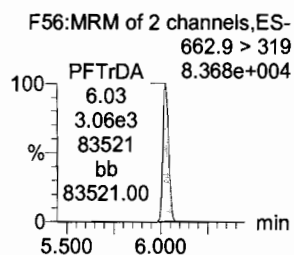
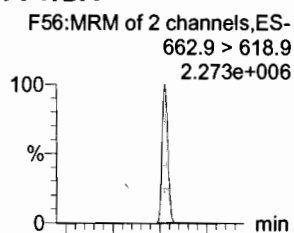
PFDaA



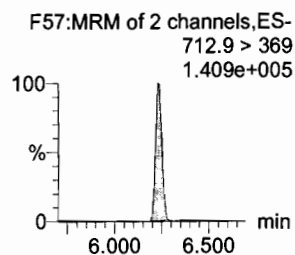
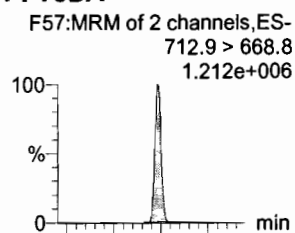
N-MeFOSA



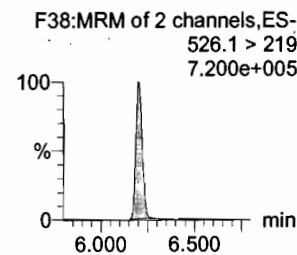
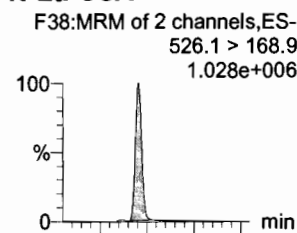
PFTTrDA



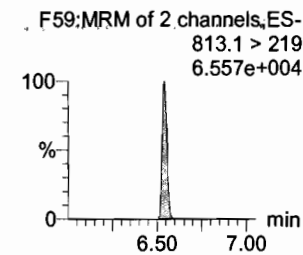
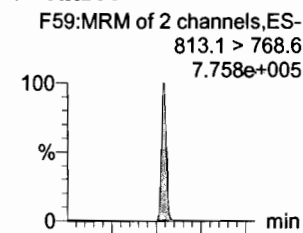
PFTeDA



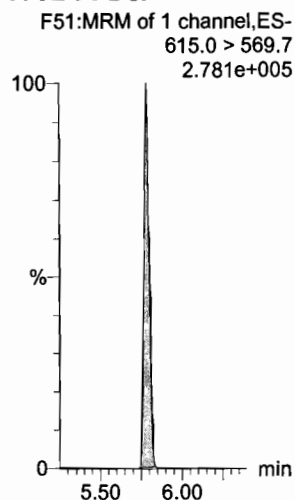
N-EtFOSA



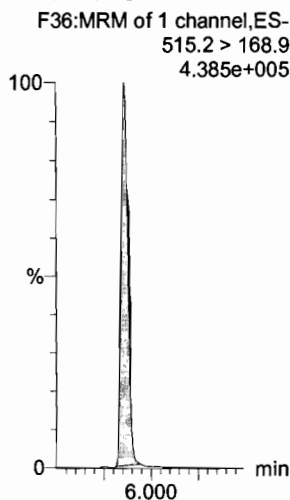
PFHxDA



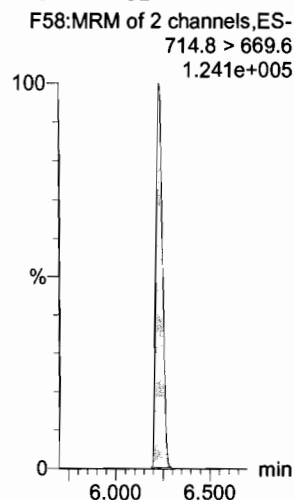
13C2-PFDaA



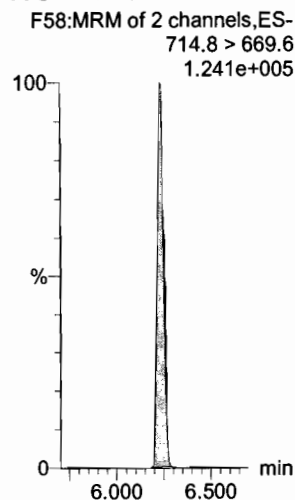
d3-N-MeFOSA



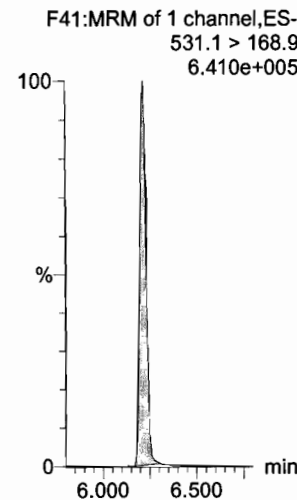
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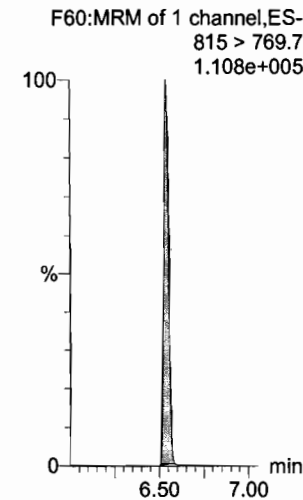
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



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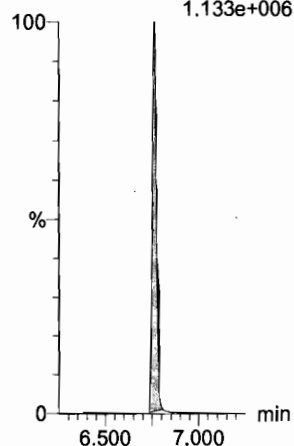
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Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

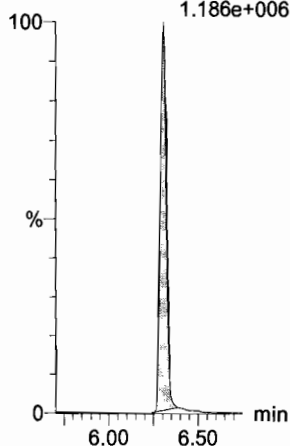
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
1.133e+006



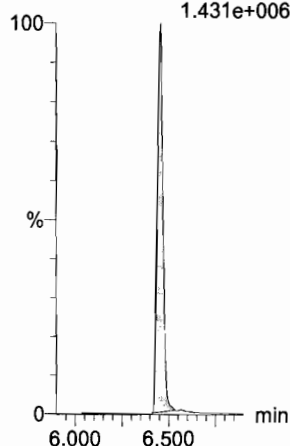
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
1.186e+006



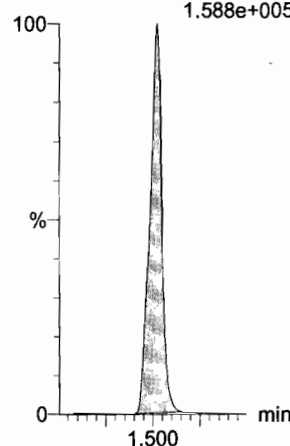
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
1.431e+006



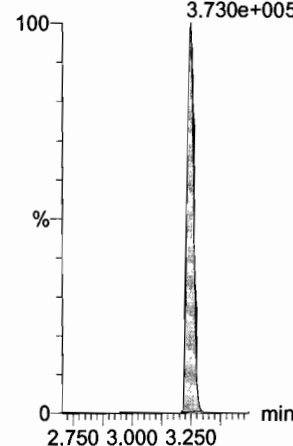
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.588e+005



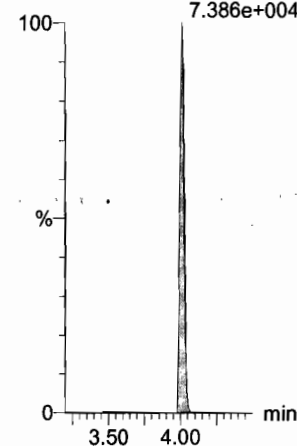
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.730e+005



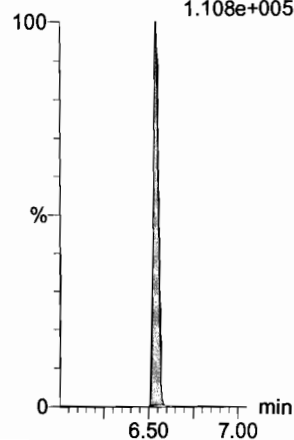
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.386e+004



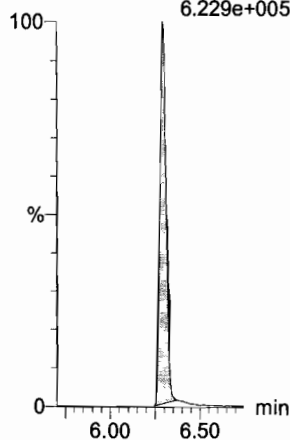
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.108e+005



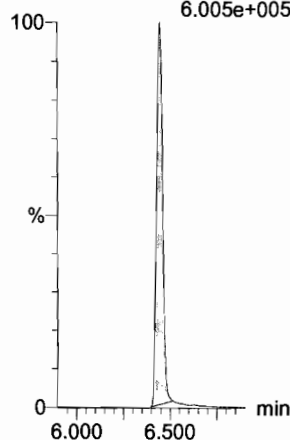
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
6.229e+005



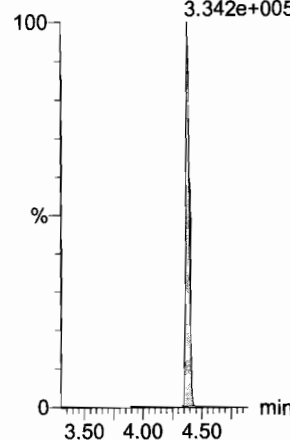
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
6.005e+005



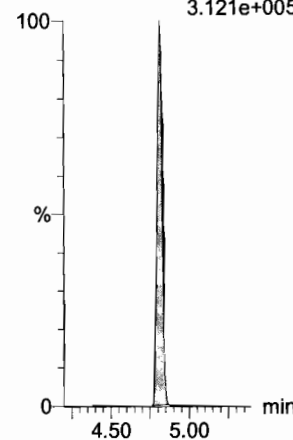
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.342e+005



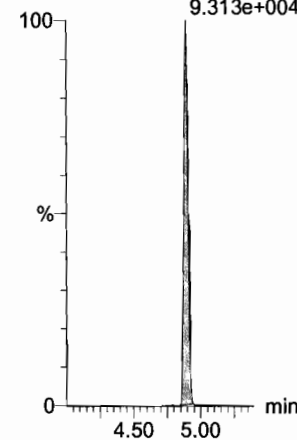
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.121e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
9.313e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

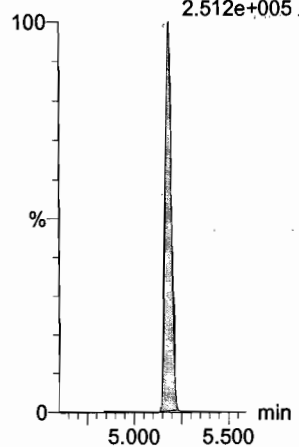
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Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208

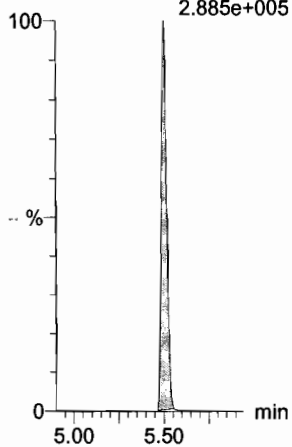
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.512e+005



13C7-PFUDa

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.885e+005



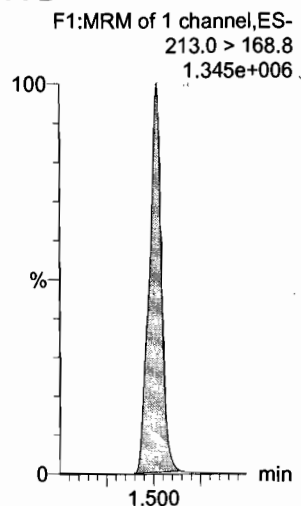
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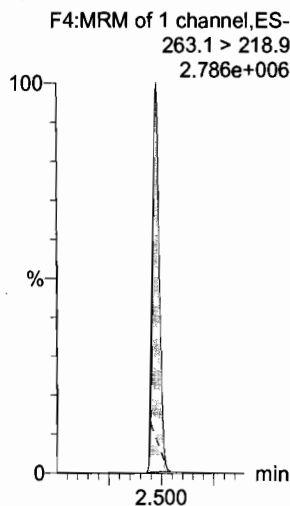
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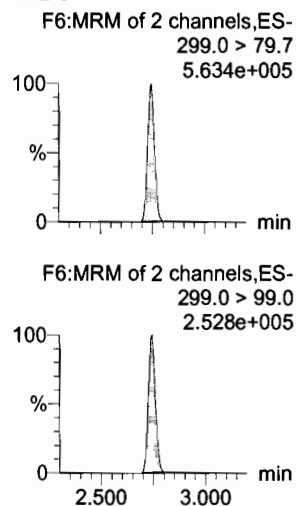
PFBA



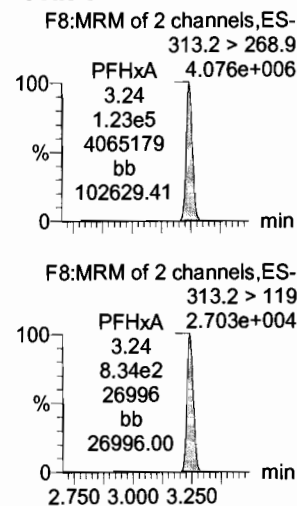
PFPeA



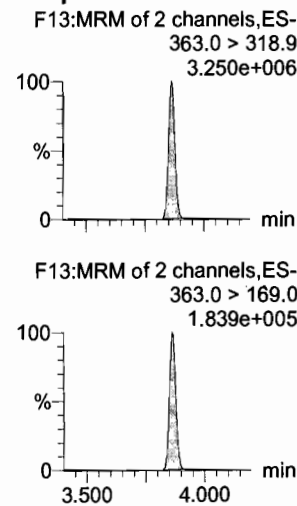
PFBS



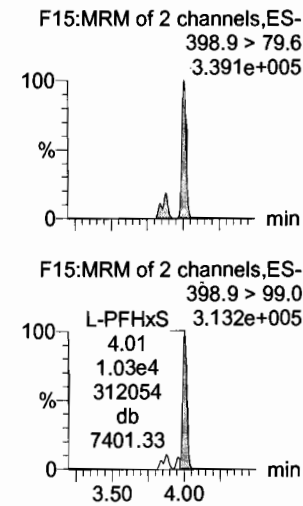
PFHxA



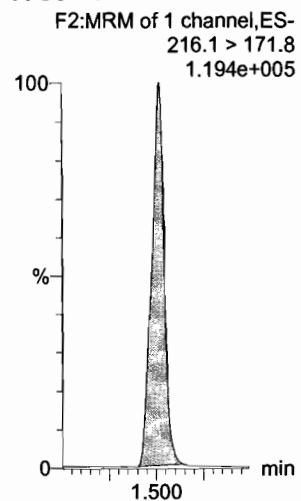
PFHpA



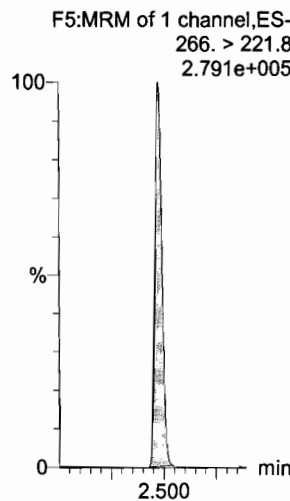
L-PFHxS



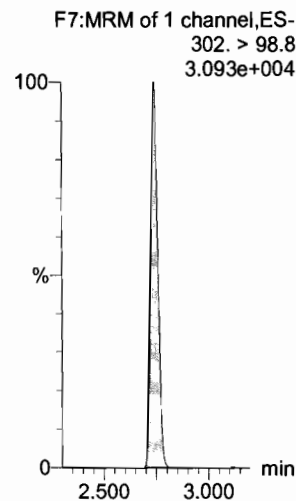
13C3-PFBA



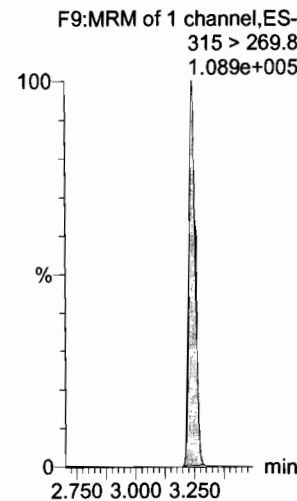
13C3-PFPeA



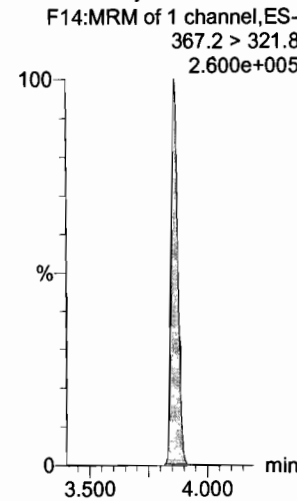
13C3-PFBS



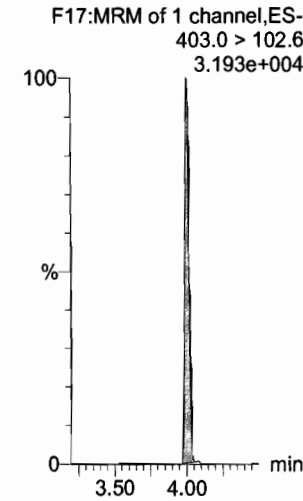
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



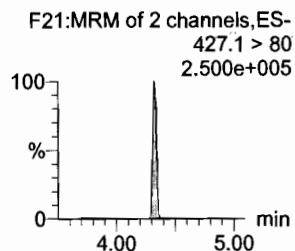
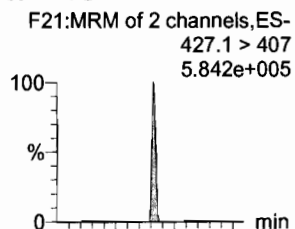
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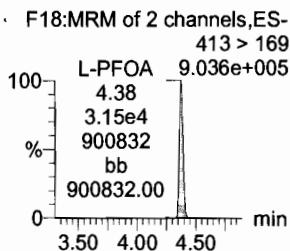
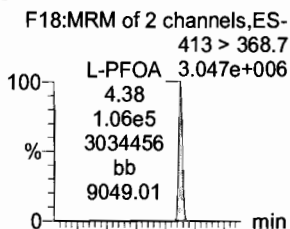
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Name: 180115M2_8, Date: 16-Jan-2018, Time: 01:34:38, ID: ST180115M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

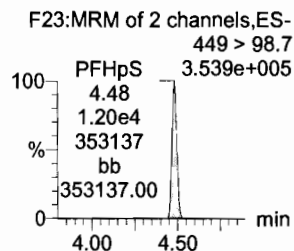
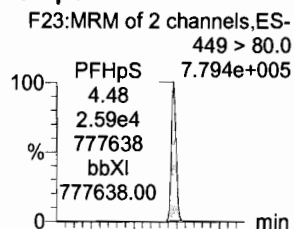
6:2 FTS



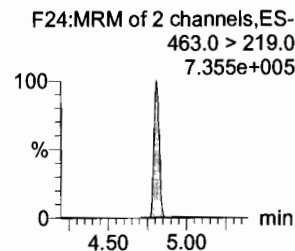
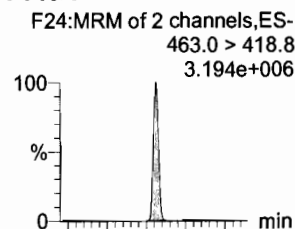
L-PFOA



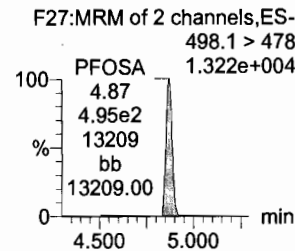
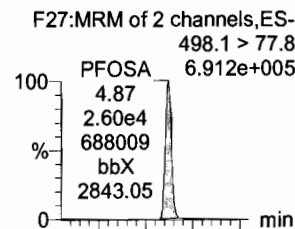
PFHpS



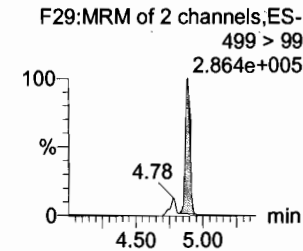
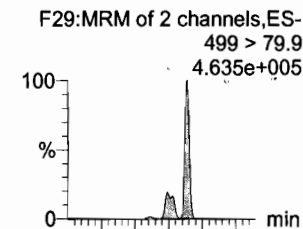
PFNA



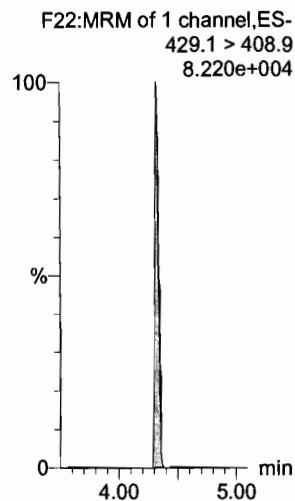
PFOSA



L-PFOS



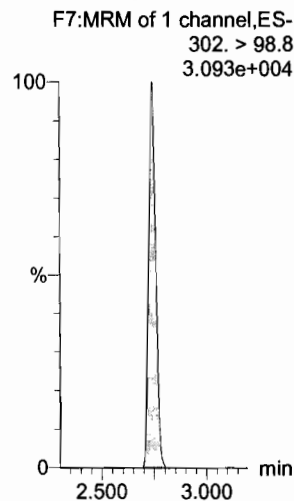
13C2-6:2 FTS



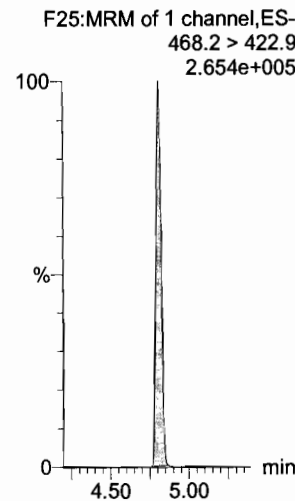
13C2-PFOA



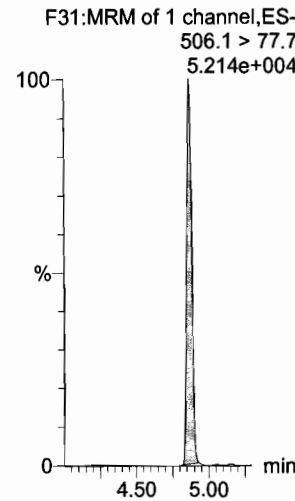
13C3-PFBS



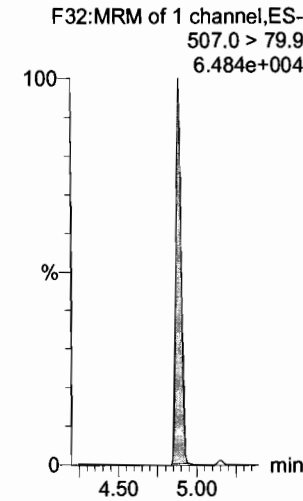
13C5-PFNA



13C8-PFOSA



13C8-PFOS



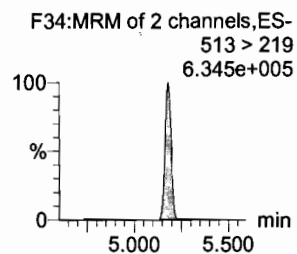
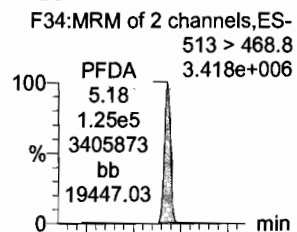
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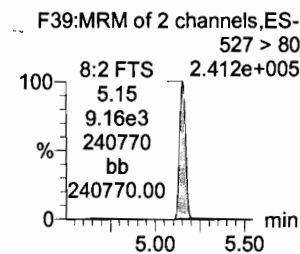
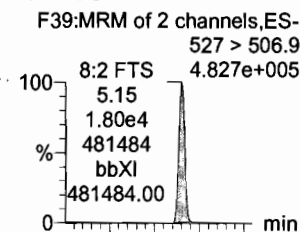
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Name: 180115M2_8, Date: 16-Jan-2018, Time: 01:34:38, ID: ST180115M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

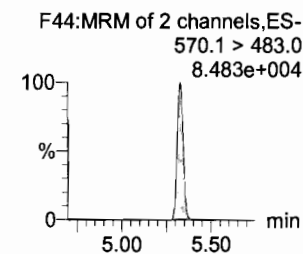
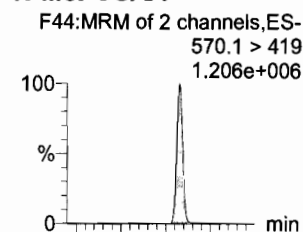
PFDA



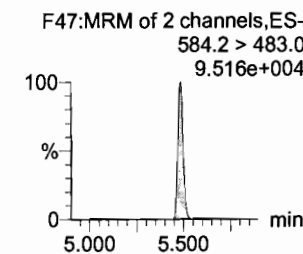
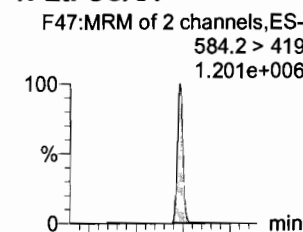
8:2 FTS



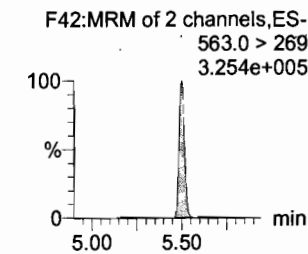
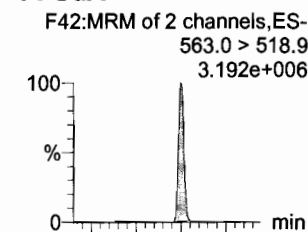
N-MeFOSAA



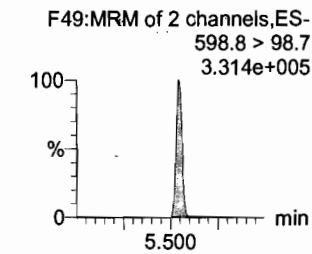
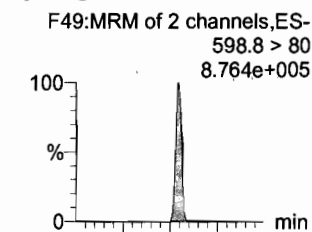
N-EtFOSAA



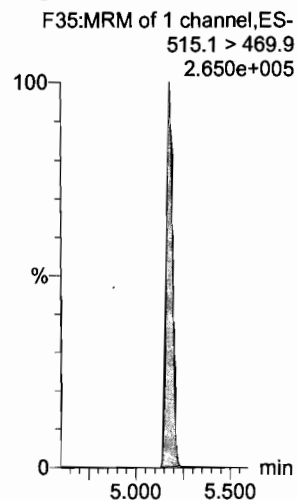
PFUdA



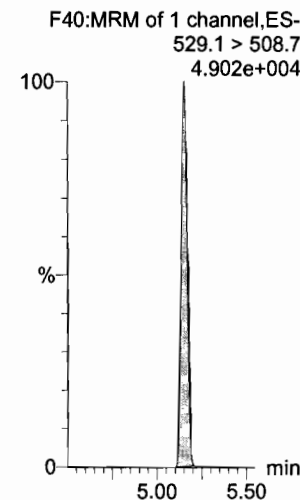
PFDS



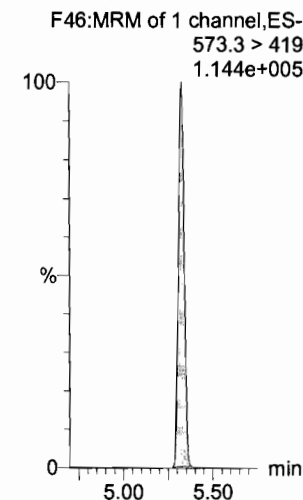
13C2-PFDA



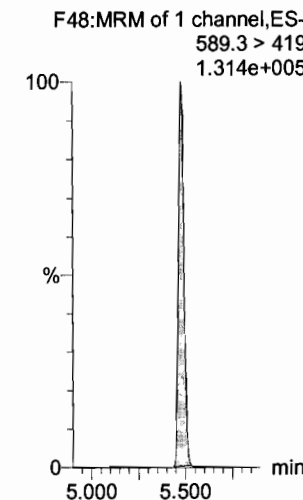
13C2-8:2 FTS



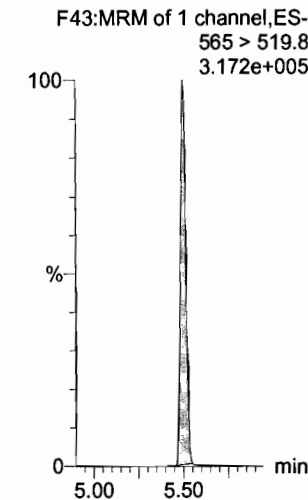
d3-N-MeFOSAA



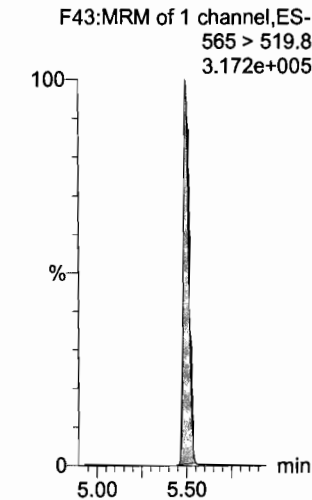
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



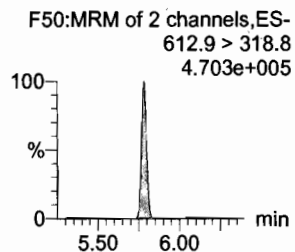
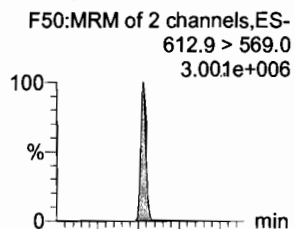
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

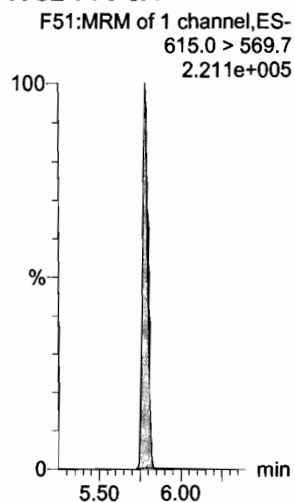
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_8, Date: 16-Jan-2018, Time: 01:34:38, ID: ST180115M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

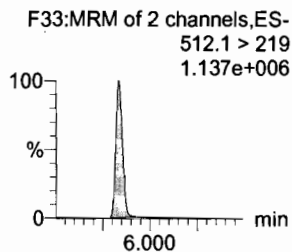
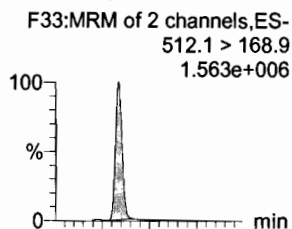
PFDaA



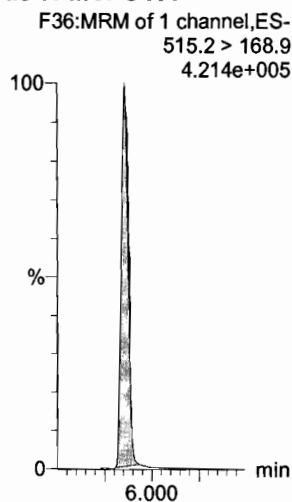
13C2-PFDaA



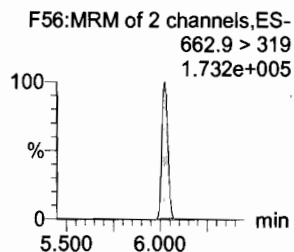
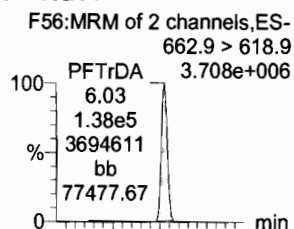
N-MeFOSA



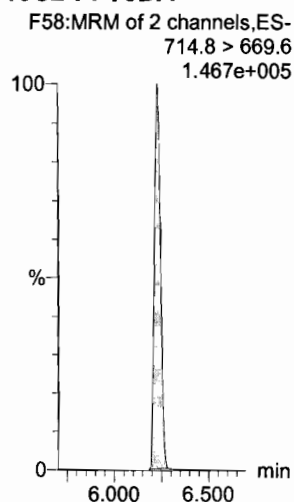
d3-N-MeFOSA



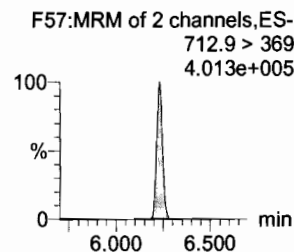
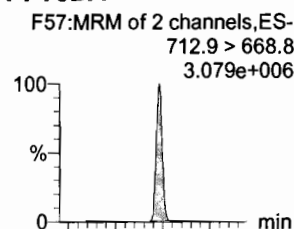
PFTrDA



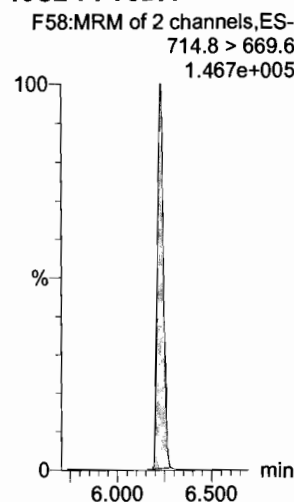
13C2-PFTeDA



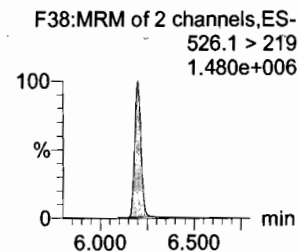
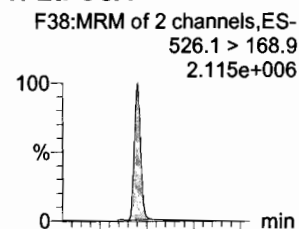
PFTeDA



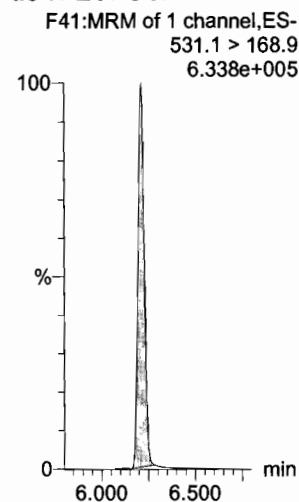
13C2-PFTeDA



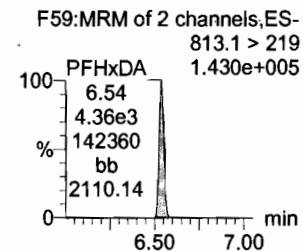
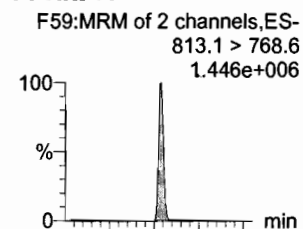
N-EtFOSA



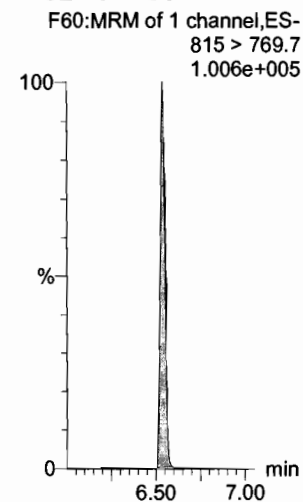
d5-N-ETFOSA



PFHxDA



13C2-PFHxDA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

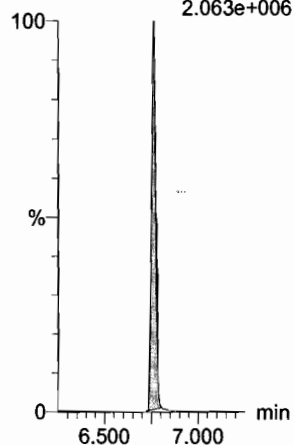
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_8, Date: 16-Jan-2018, Time: 01:34:38, ID: ST180115M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

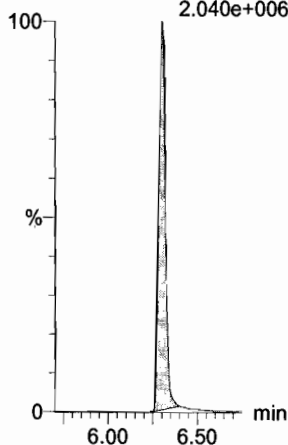
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.063e+006



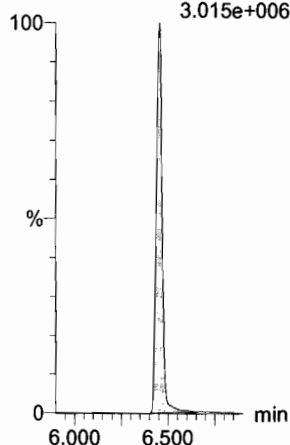
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
2.040e+006



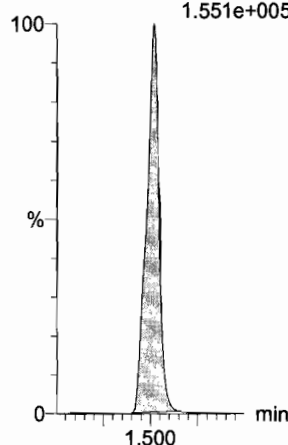
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
3.015e+006



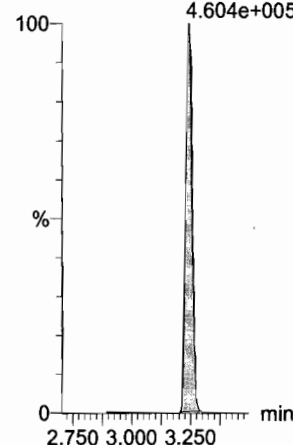
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.551e+005



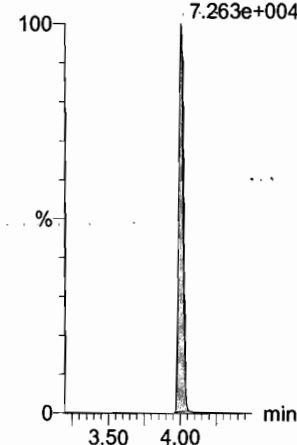
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.604e+005



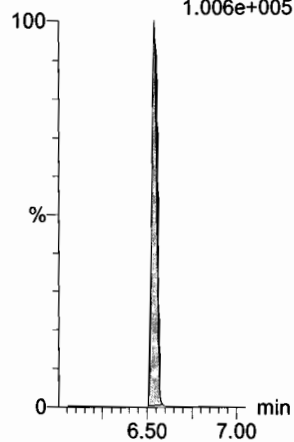
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.263e+004



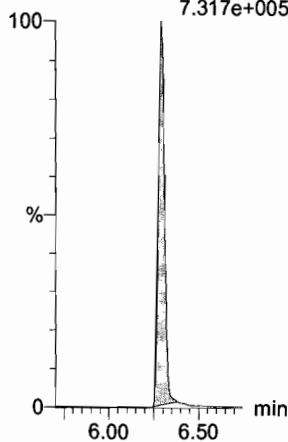
13C2-PFHxDa

F60:MRM of 1 channel,ES-
815 > 769.7
1.006e+005



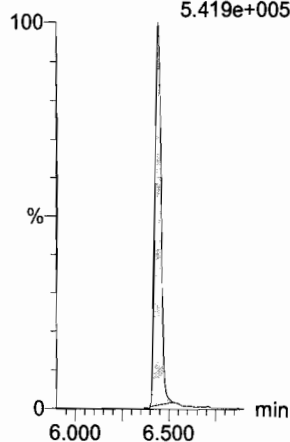
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
7.317e+005



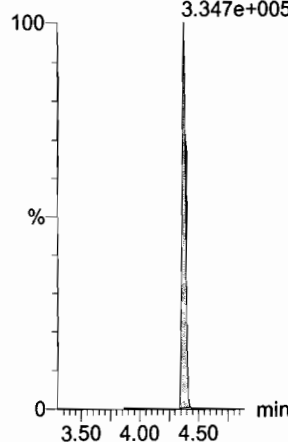
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
5.419e+005



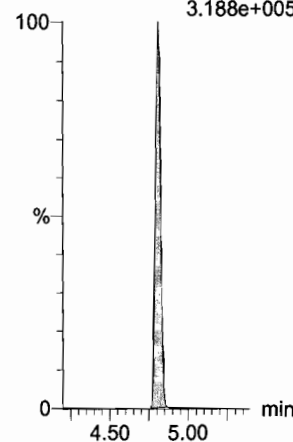
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.347e+005



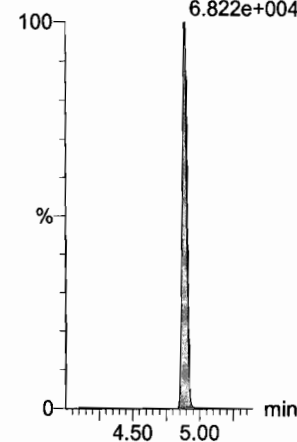
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.188e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.822e+004



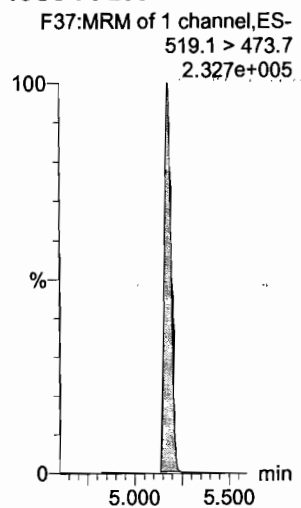
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

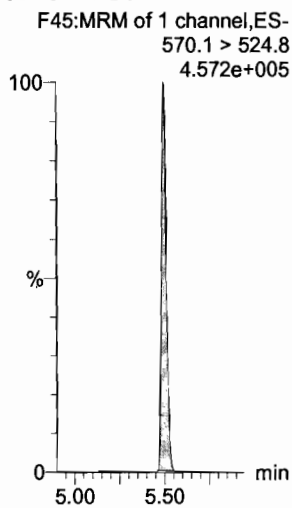
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

Name: 180115M2_8, Date: 16-Jan-2018, Time: 01:34:38, ID: ST180115M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

13C6-PFDA



13C7-PFUDa



Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

Ⓐ PFDS < 70%
Ⓑ No SS available.

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

AC
1/16/18
JH.
01/16/2018

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	4.22e4	4.31e4	1.0000		1.64	1.53	12.2	9.143	91.4
2	2 PFPeA	263.1 > 218.9	3.87e4	4.74e4	1.0000		2.60	2.48	10.2	8.865	88.7
3	3 PFBS	299.0 > 79.7	7.49e3	5.83e3	1.0000		2.87	2.74	16.1	8.388	83.9
4	4 PFHxA	313.2 > 268.9	5.03e4	1.55e4	1.0000		3.36	3.25	16.2	9.233	92.3
5	5 PFHpA	363.0 > 318.9	3.86e4	3.81e4	1.0000		4.00	3.86	12.7	8.516	85.2
6	6 L-PFHxS	398.9 > 79.6	5.32e3	4.45e3	1.0000		4.14	4.01	15.0	7.365	73.7
7	8 6:2 FTS	427.1 > 407	7.45e3	4.45e3	1.0000		4.46	4.32	20.9	7.277	72.8
8	9 L-PFOA	413 > 368.7	4.17e4	5.84e4	1.0000		4.50	4.38	8.91	7.641	76.4
9	11 PFHpS	449 > 80.0	1.07e4	5.84e4	1.0000		4.60	4.48	2.29	8.064	80.6
10	12 PFNA	463.0 > 418.8	4.68e4	4.69e4	1.0000		4.94	4.81	12.5	9.162	91.6
11	13 PFOSA	498.1 > 77.8	3.83e3	3.99e3	1.0000		5.00	4.87	12.0	9.978	99.8
12	14 L-PFOS	499 > 79.9	9.56e3	1.09e4	1.0000		5.02	4.89	11.0	9.839	98.4
13	16 PFDA	513 > 468.8	3.70e4	4.01e4	1.0000		5.31	5.18	11.5	8.007	80.1
14	17 8:2 FTS	527 > 506.9	6.16e3	4.01e4	1.0000		5.28	5.15	1.92	7.523	75.2
15	18 N-MeFOSAA	570.1 > 419	1.06e4	9.21e3	1.0000		5.45	5.33	14.4	8.677	86.8
16	19 N-EtFOSAA	584.2 > 419	8.54e3	1.06e4	1.0000		5.60	5.48	10.0	7.762	77.6
17	20 PFUdA	563.0 > 518.9	1.34e4	1.66e4	1.0000		5.62	5.50	10.1	7.882	78.8
18	21 PFDS	598.8 > 80	1.97e3	1.66e4	1.0000		5.67	5.55	1.48	4.394	43.9
19	22 PFDoA	612.9 > 569.0	7.26e3	5.53e3	1.0000		5.91	5.78	16.4	11.272	112.7
20	23 N-MeFOSA	512.1 > 168.9		2.76e3	1.0000		5.87				
21	24 PFTTrDA	662.9 > 618.9	6.78e3	5.53e3	1.0000		6.15	6.03	15.3	7.147	71.5
22	25 PFTeDA	712.9 > 668.8	3.76e3	1.87e3	1.0000		6.35	6.23	25.2	7.572	75.7
23	26 N-EtFOSA	526.1 > 168.9		2.97e3	1.0000		6.25				
24	27 PFHxDA	813.1 > 768.6		1.01e3	1.0000		6.64				
25	28 PFODA	913.1 > 868.8		1.01e3	1.0000		6.85				
26	29 N-MeFOSE	616.1 > 58.9		1.02e4	1.0000		6.31				
27	30 N-EtFOSE	630.1 > 58.9		9.18e3	1.0000		6.45				
28	31 13C3-PFBA	216.1 > 171.8	4.31e4	4.78e4	1.0000	0.779	1.64	1.53	11.3	14.466	115.7
29	32 13C3-PFPeA	266. > 221.8	4.74e4	5.13e4	1.0000	0.797	2.60	2.48	11.5	14.472	115.8
30	33 13C3-PFBS	302. > 98.8	5.83e3	5.13e4	1.0000	0.095	2.87	2.75	1.42	14.929	119.4
31	34 13C3-PFHxA	315 > 268.8	1.55e4	5.13e4	1.0000	0.636	3.36	3.25	3.78	5.937	118.7

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 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	3.81e4	5.13e4	1.0000	0.621	4.00	3.86	9.27	14.929	119.4
33	36 18O2-PFHxS	403.0 > 102.6	4.45e3	1.25e4	1.0000	0.336	4.14	4.01	4.44	13.221	105.8
34	37 13C2-6.2 FTS	429.1 > 408.9	9.75e3	4.79e4	1.0000	0.192	4.46	4.33	2.55	13.229	105.8
35	38 13C2-PFOA	414.9 > 369.7	5.84e4	4.79e4	1.0000	1.001	4.50	4.38	15.3	15.234	121.9
36	39 13C5-PFNA	468.2 > 422.9	4.69e4	4.38e4	1.0000	0.811	4.94	4.81	13.4	16.506	132.0
37	40 13C8-PFOSA	506.1 > 77.7	3.99e3	1.79e4	1.0000	0.196	5.00	4.87	2.78	14.134	113.1
38	41 13C8-PFOS	507.0 > 79.9	1.09e4	1.14e4	1.0000	0.862	5.02	4.89	11.9	13.836	110.7
39	42 13C2-PFDA	515.1 > 469.9	4.01e4	3.72e4	1.0000	0.996	5.31	5.18	13.5	13.560	108.5
40	43 13C2-8.2 FTS	529.1 > 508.7	4.91e3	5.13e4	1.0000	0.103	5.28	5.15	1.19	11.599	92.8
41	44 d3-N-MeFOSAA	573.3 > 419	9.21e3	1.79e4	1.0000	0.340	5.45	5.32	6.42	18.871	151.0
42	45 d5-N-EtFOSAA	589.3 > 419	1.06e4	1.79e4	1.0000	0.377	5.60	5.48	7.41	19.663	157.3
43	46 13C2-PFUdA	565 > 519.8	1.66e4	1.79e4	1.0000	0.944	5.62	5.50	11.5	12.235	97.9
44	47 13C2-PFDoA	615.0 > 569.7	5.53e3	1.79e4	1.0000	0.726	5.91	5.78	3.85	5.307	42.5
45	48 d3-N-MeFOSA	515.2 > 168.9	2.76e3	1.79e4	1.0000	0.119	5.87	5.86	1.92	16.158	10.8
46	49 13C2-PFTeDA	714.8 > 669.6	1.87e3	1.79e4	1.0000	0.371	6.35	6.23	1.30	3.503	28.0
47	50 d5-N-ETFOSA	531.1 > 168.9	2.97e3	1.79e4	1.0000	0.174	6.25	6.21	2.07	11.921	7.9
48	51 13C2-PFHxDA	815 > 769.7	1.01e3	1.79e4	1.0000	0.559	6.64	6.54	0.702	1.256	25.1
49	52 d7-N-MeFOSE	623.1 > 58.9	1.02e4	1.79e4	1.0000	0.179	6.31	6.29	7.09	39.533	26.4
50	53 d9-N-EtFOSE	639.2 > 58.8	9.18e3	1.79e4	1.0000	0.160	6.45	6.44	6.40	40.069	26.7
51	54 13C4-PFBA	217. > 171.8	4.78e4	4.78e4	1.0000	1.000	1.64	1.52	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	5.13e4	5.13e4	1.0000	1.000	3.36	3.25	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	1.25e4	1.25e4	1.0000	1.000	4.14	4.01	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	4.79e4	4.79e4	1.0000	1.000	4.50	4.38	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	4.38e4	4.38e4	1.0000	1.000	4.94	4.81	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	1.14e4	1.14e4	1.0000	1.000	5.02	4.89	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	3.72e4	3.72e4	1.0000	1.000	5.31	5.18	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.79e4	1.79e4	1.0000	1.000	5.62	5.50	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

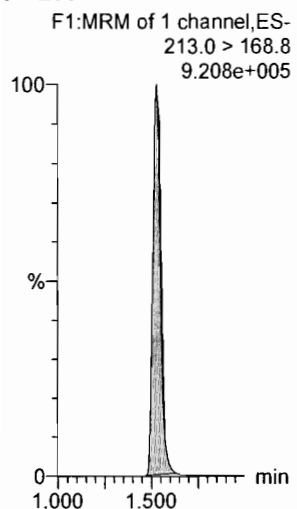
Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30

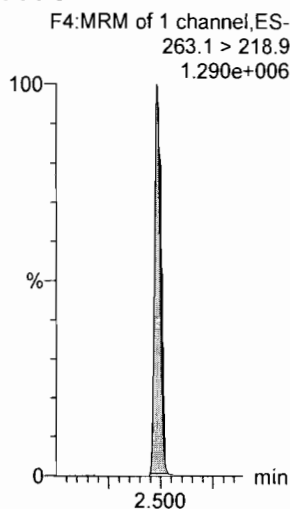
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

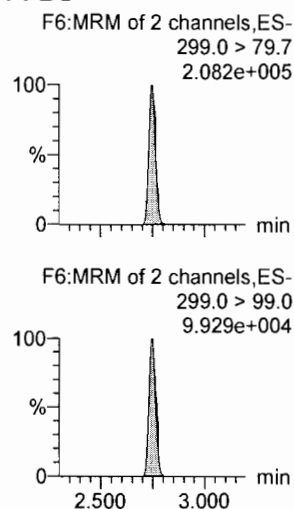
PFBA



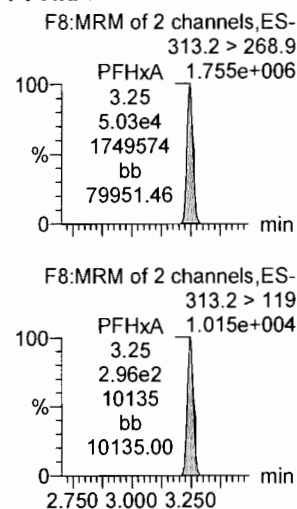
PFPeA



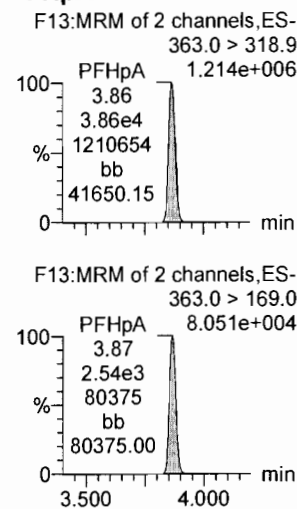
PFBS



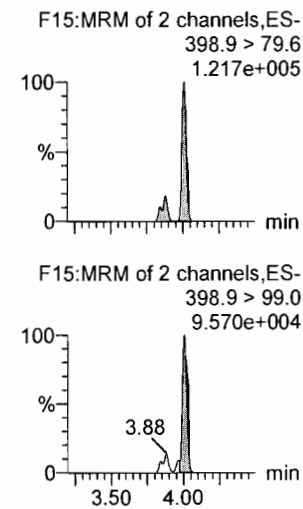
PFHxA



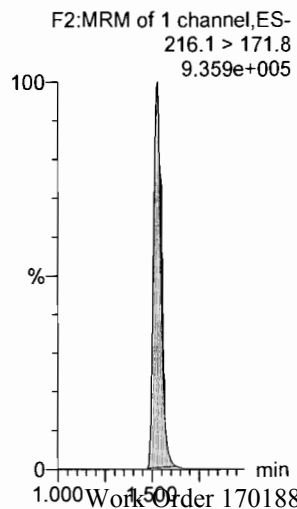
PFHpA



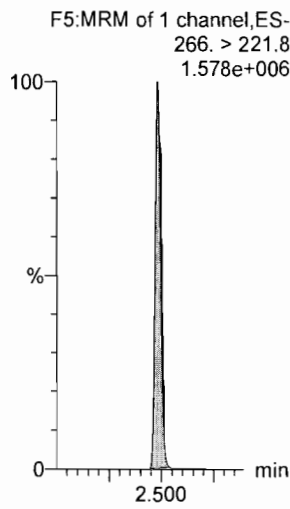
L-PFHxS



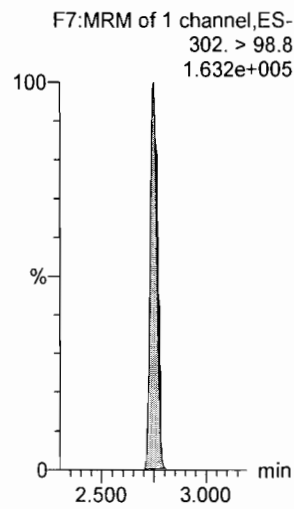
13C3-PFBA



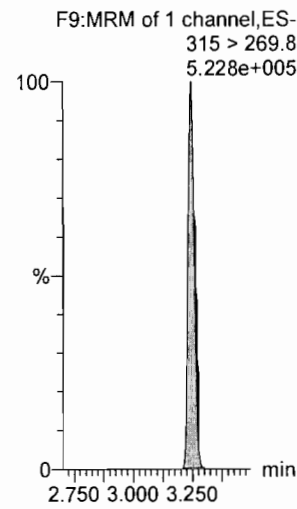
13C3-PFPeA



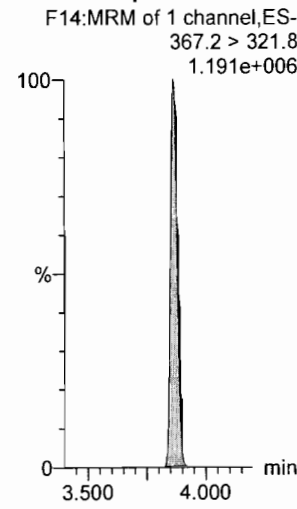
13C3-PFBS



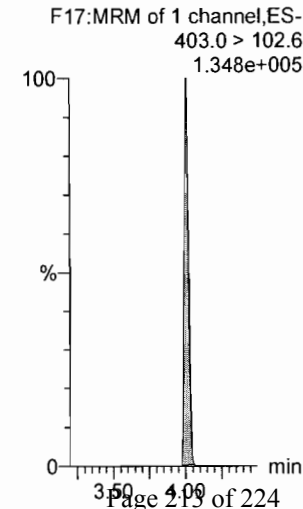
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

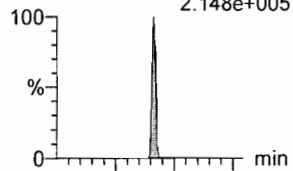
Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

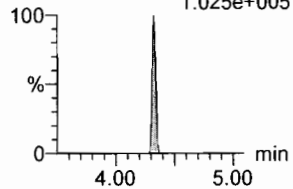
Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

6:2 FTS

F21:MRM of 2 channels,ES-
427.1 > 407
2.148e+005

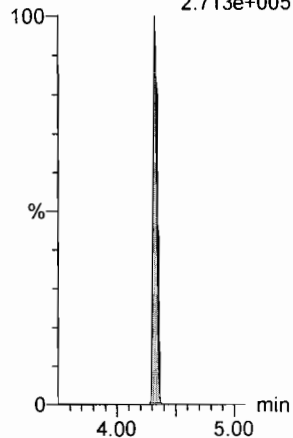


F21:MRM of 2 channels,ES-
427.1 > 80
1.025e+005



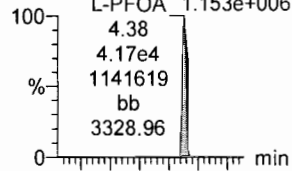
13C2-6:2 FTS

F22:MRM of 1 channel,ES-
429.1 > 408.9
2.713e+005

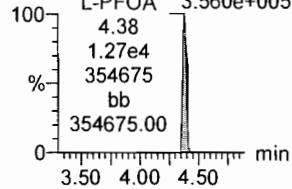


L-PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
1.153e+006

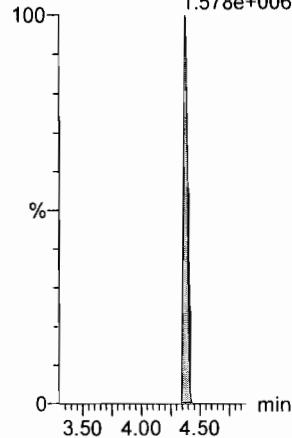


F18:MRM of 2 channels,ES-
413 > 169
3.560e+005



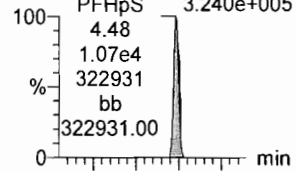
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
1.578e+006

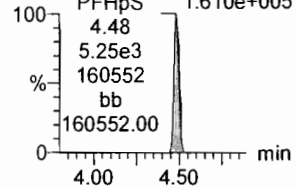


PFHpS

F23:MRM of 2 channels,ES-
449 > 80.0
3.240e+005

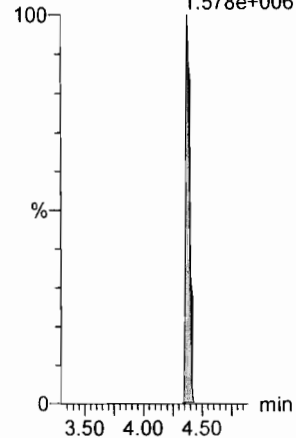


F23:MRM of 2 channels,ES-
449 > 98.7
1.610e+005



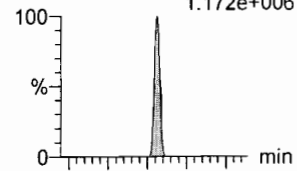
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
1.578e+006

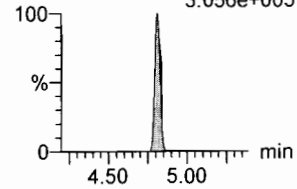


PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
1.172e+006

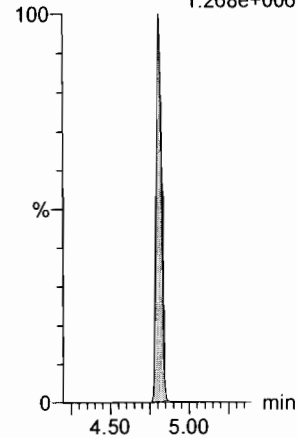


F24:MRM of 2 channels,ES-
463.0 > 219.0
3.056e+005



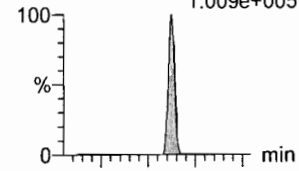
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
1.268e+006

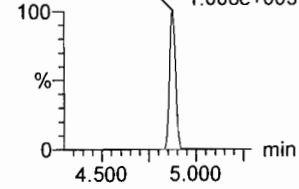


PFOSA

F27:MRM of 2 channels,ES-
498.1 > 77.8
1.009e+005

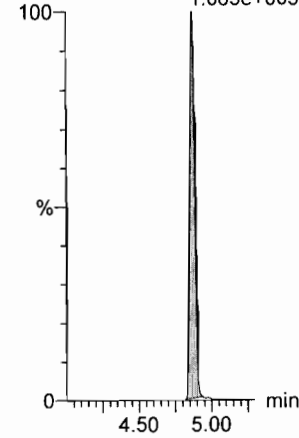


F27:MRM of 2 channels,ES-
498.1 > 478
1.008e+003



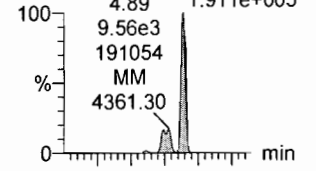
13C8-PFOSA

F31:MRM of 1 channel,ES-
506.1 > 77.7
1.065e+005

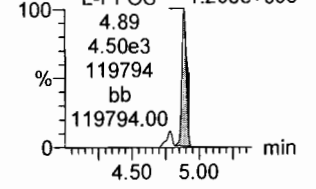


L-PFOS

F29:MRM of 2 channels,ES-
L-PFOS 499 > 79.9
1.911e+005

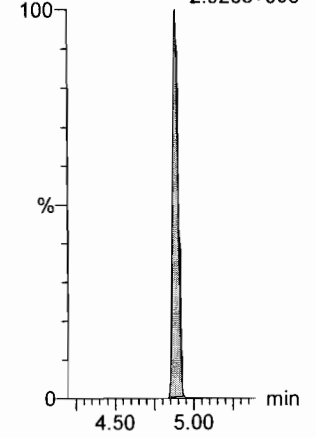


F29:MRM of 2 channels,ES-
499 > 99
1.208e+005



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
2.928e+005

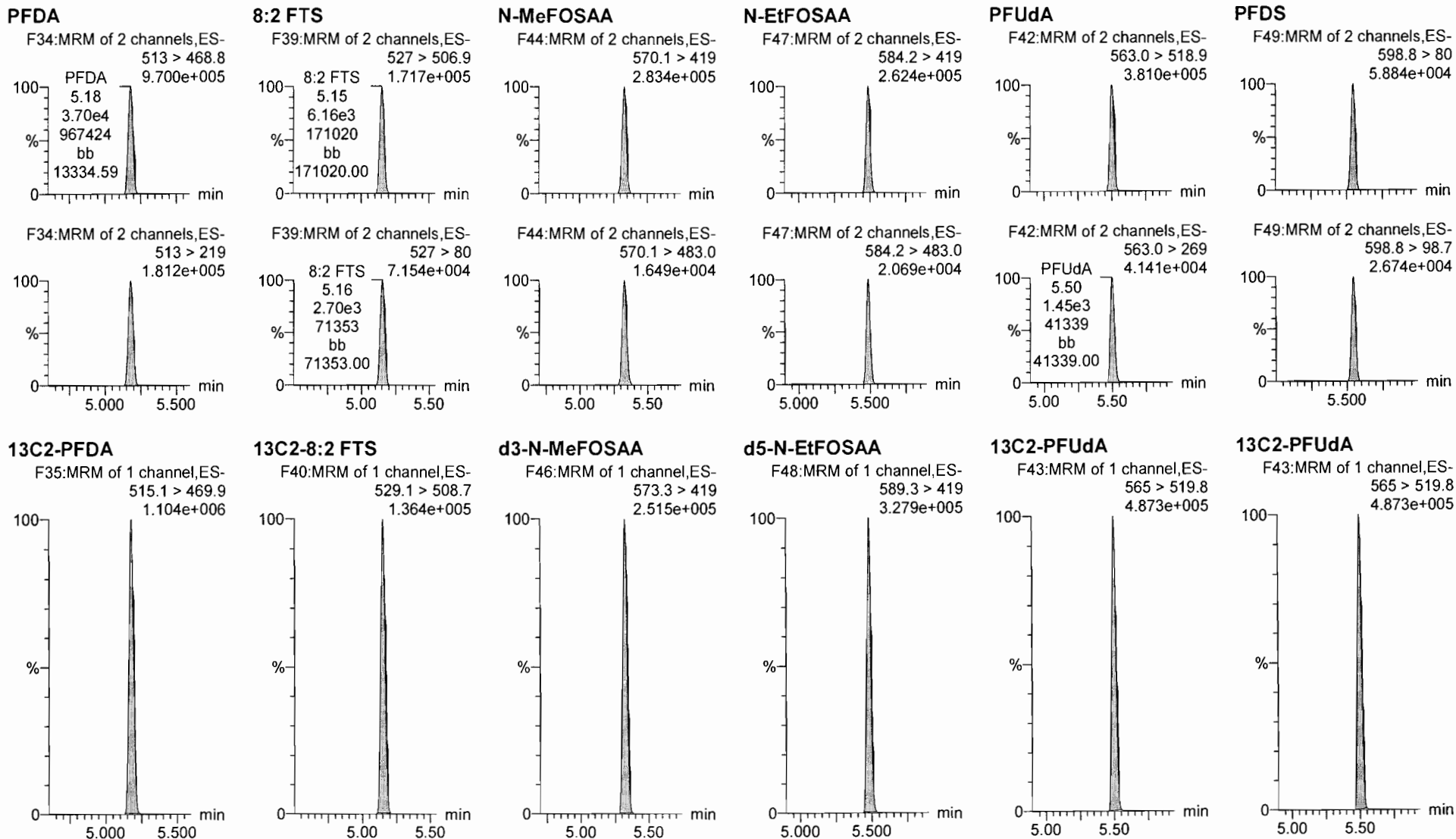


Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201



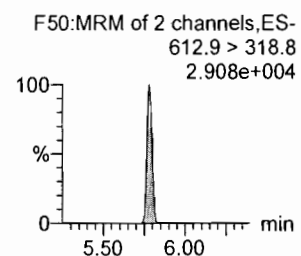
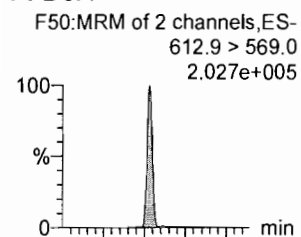
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Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

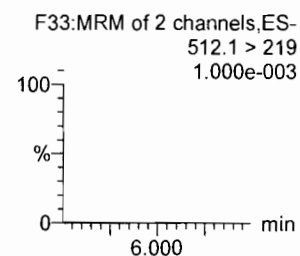
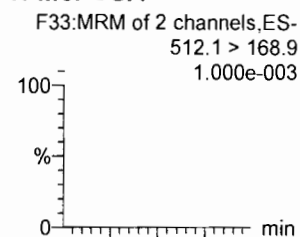
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Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

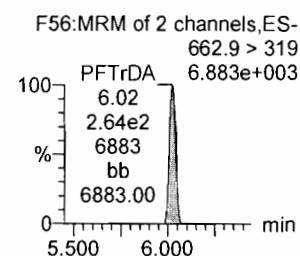
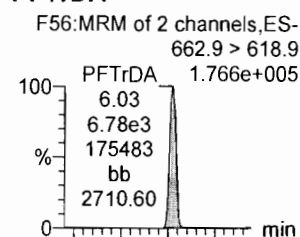
PFDaA



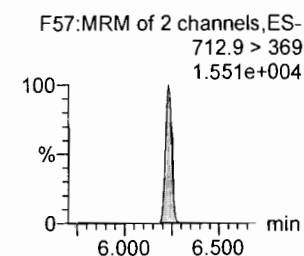
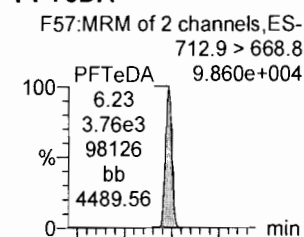
N-MeFOSA



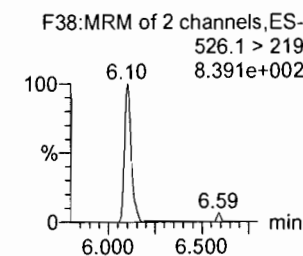
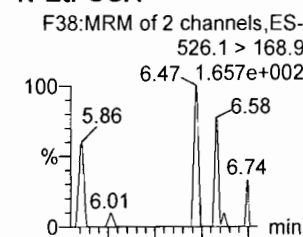
PFTTrDA



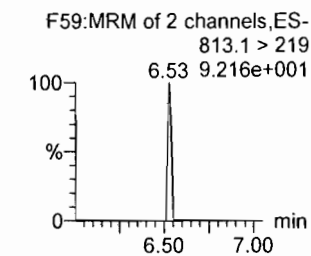
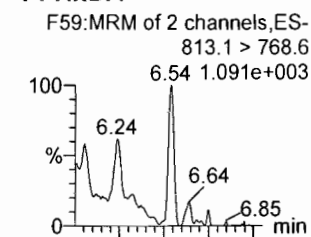
PFTeDA



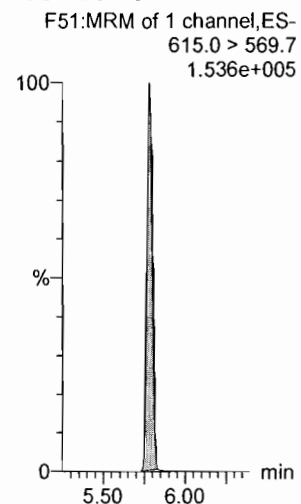
N-EtFOSA



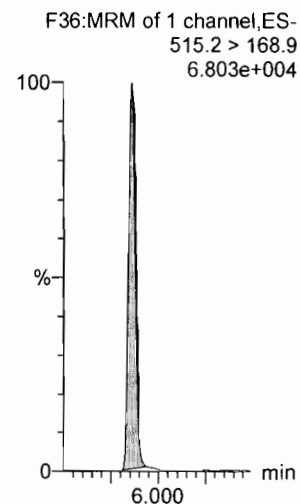
PFHxDA



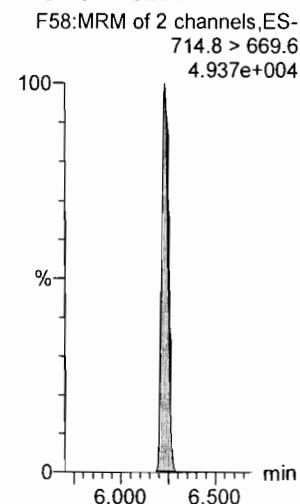
13C2-PFDaA



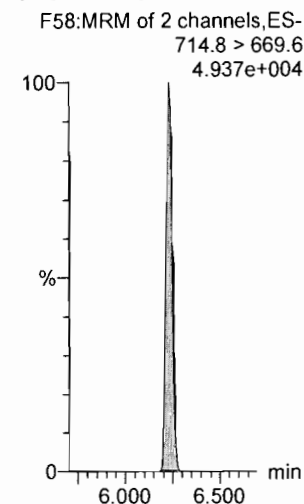
d3-N-MeFOSA



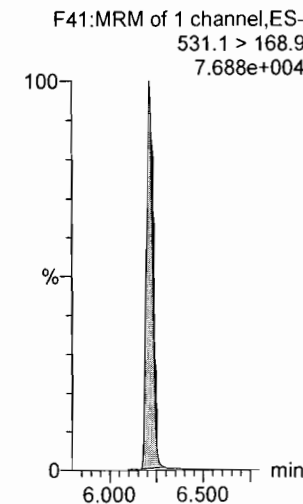
13C2-PFTeDA



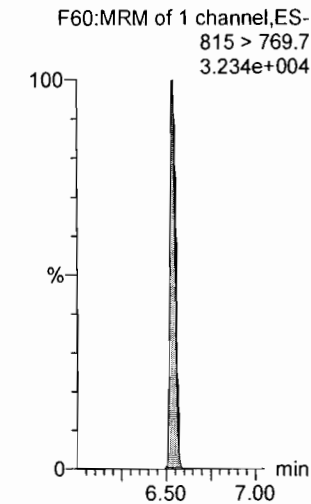
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



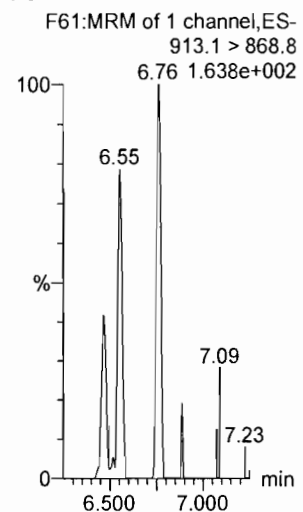
Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

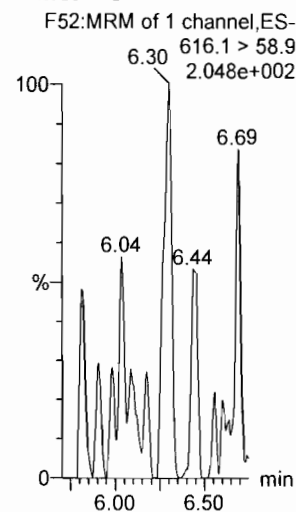
Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

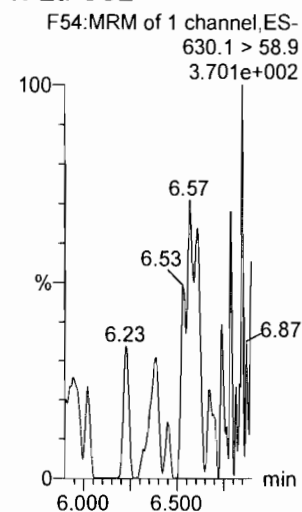
PFODA



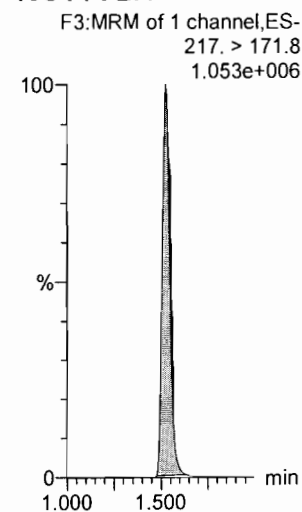
N-MeFOSE



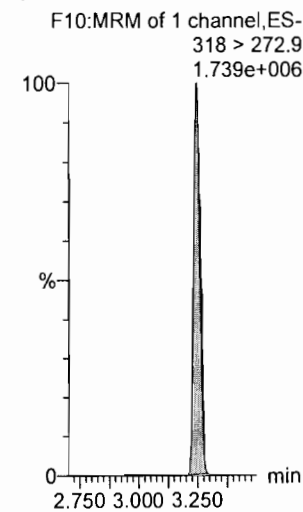
N-EtFOSE



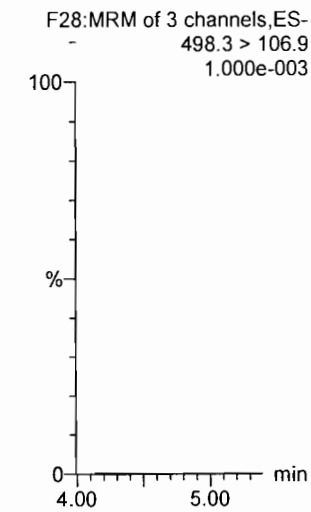
13C4-PFBA



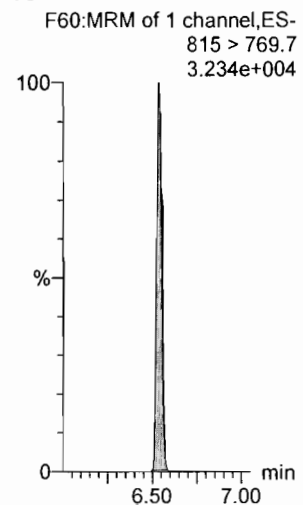
13C5-PFHxA



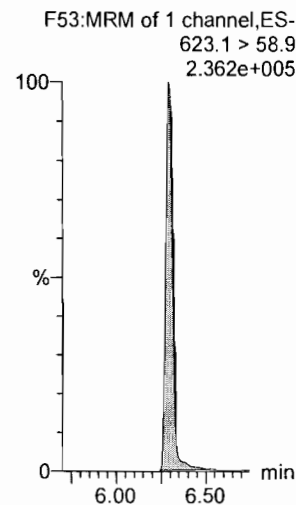
TCDA



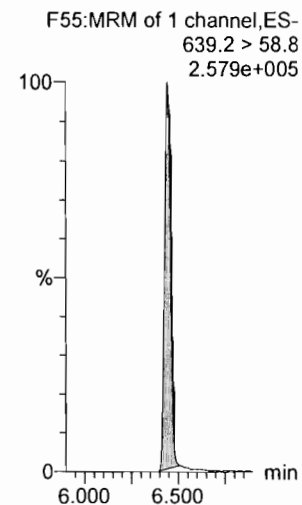
13C2-PFHxDa



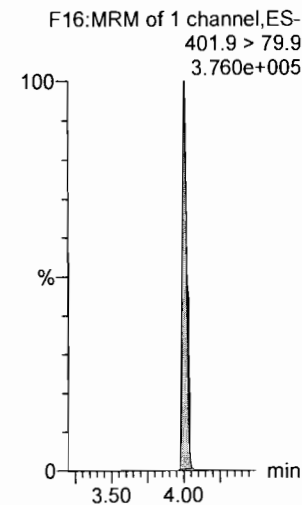
d7-N-MeFOSE



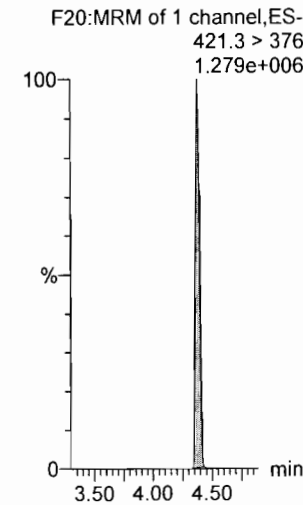
d9-N-EtFOSE



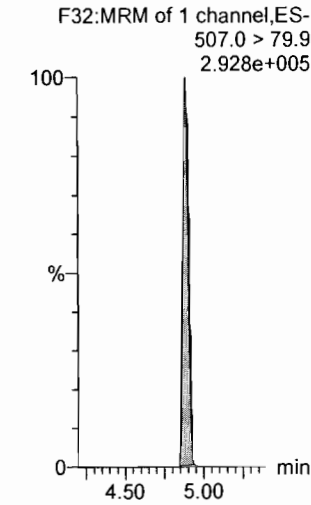
13C3-PFHxS



13C8-PFOA



13C8-PFOS



Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

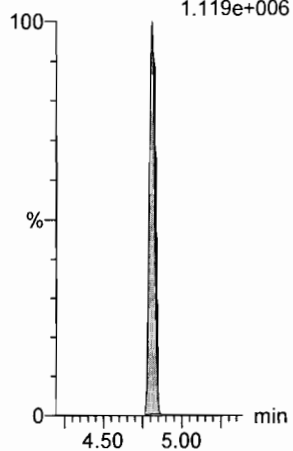
Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

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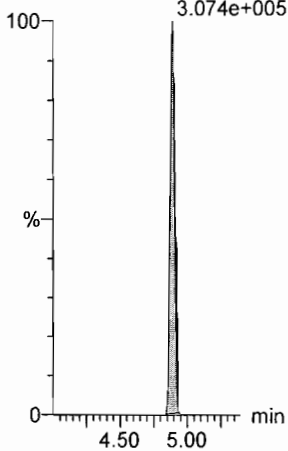
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
1.119e+006



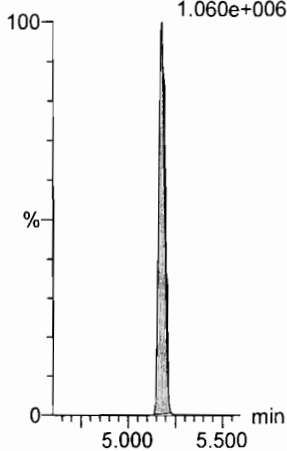
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
3.074e+005



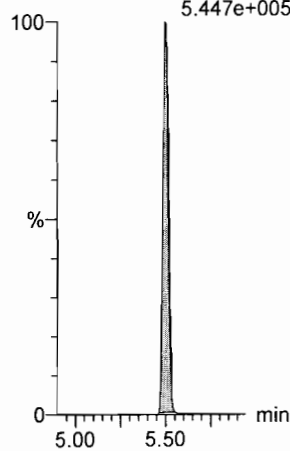
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.060e+006



13C7-PFUDa

F45:MRM of 1 channel,ES-
570.1 > 524.8
5.447e+005



Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

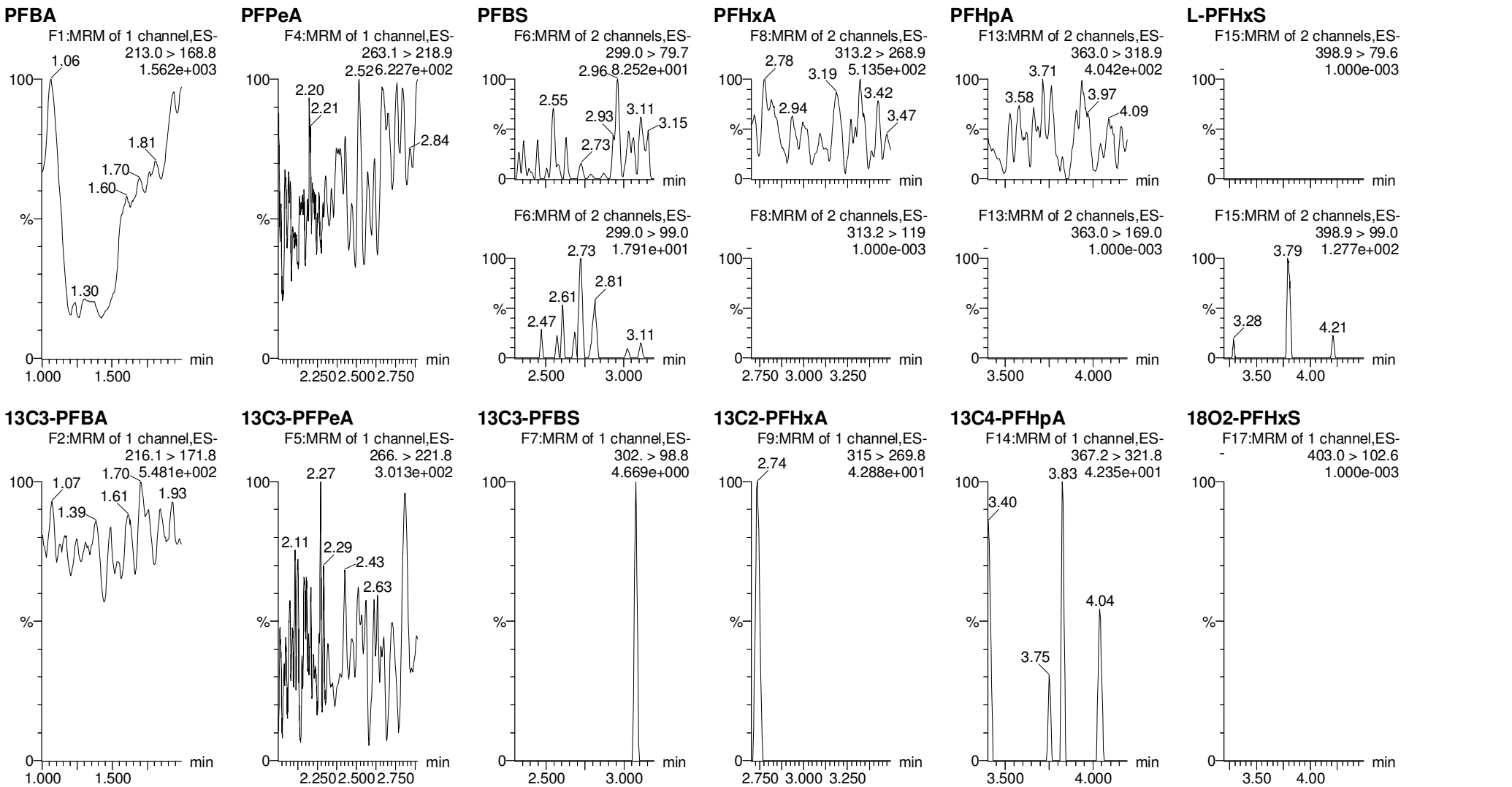
Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 13:43:12

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

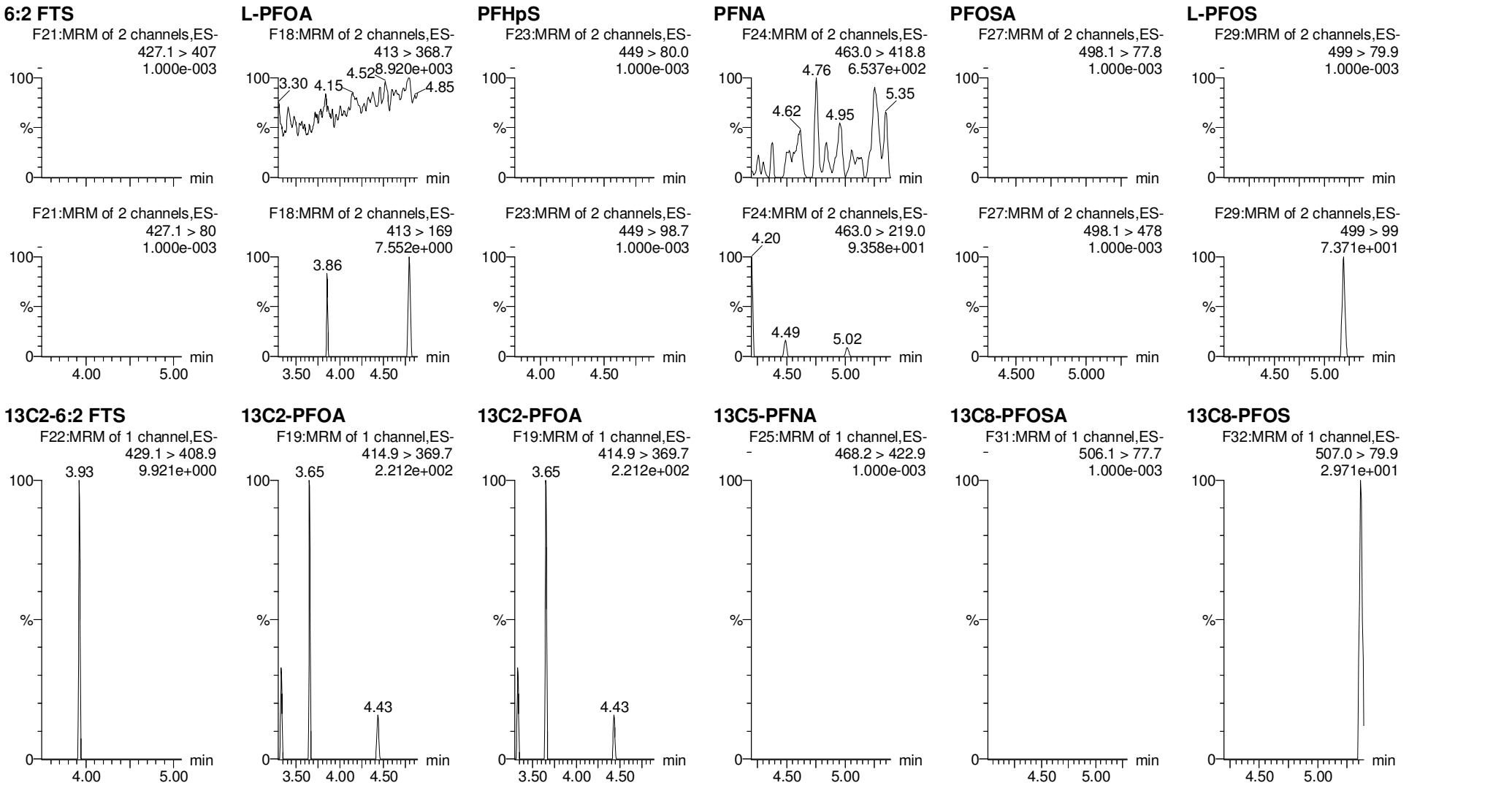


Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

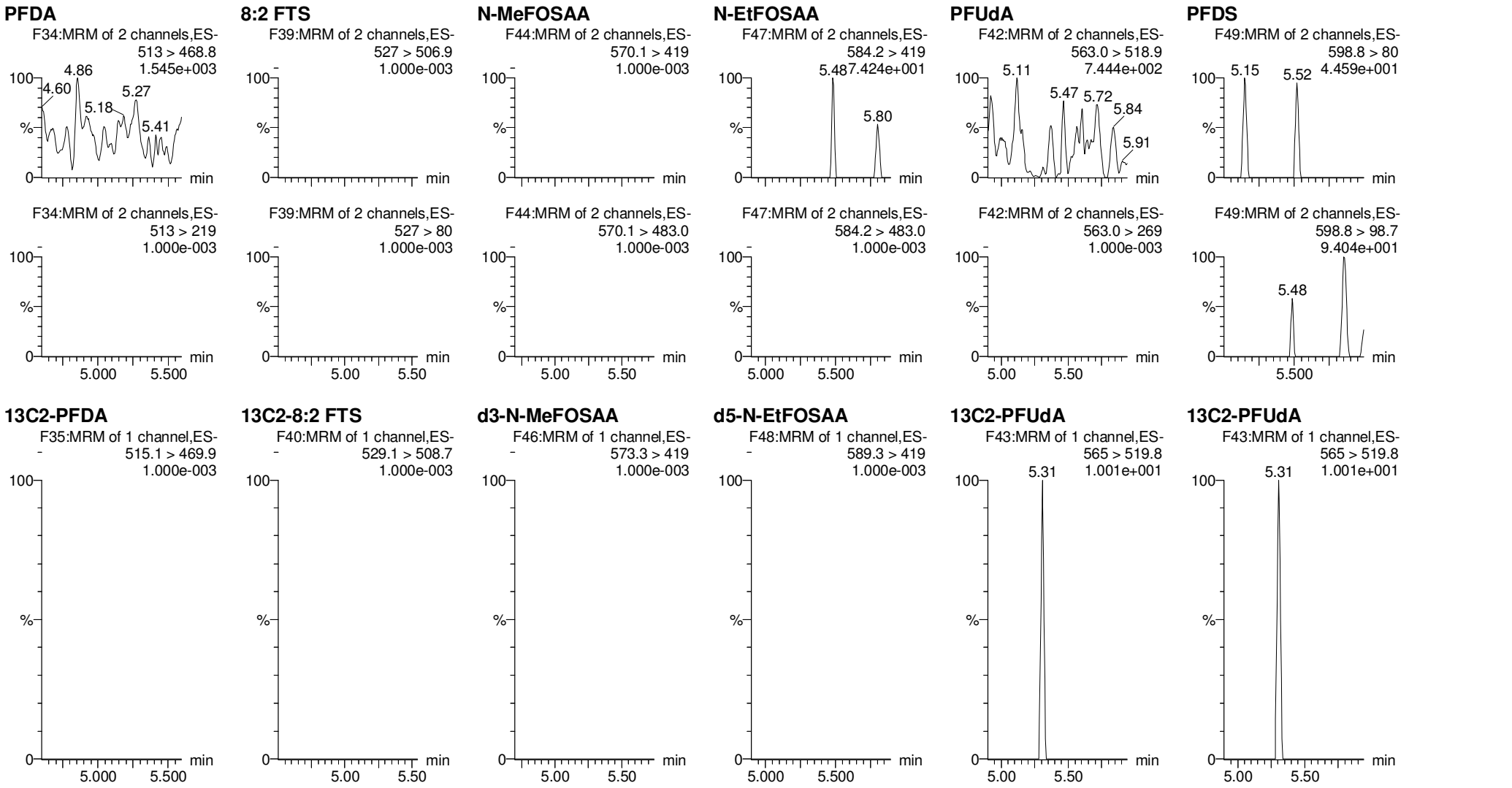


Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

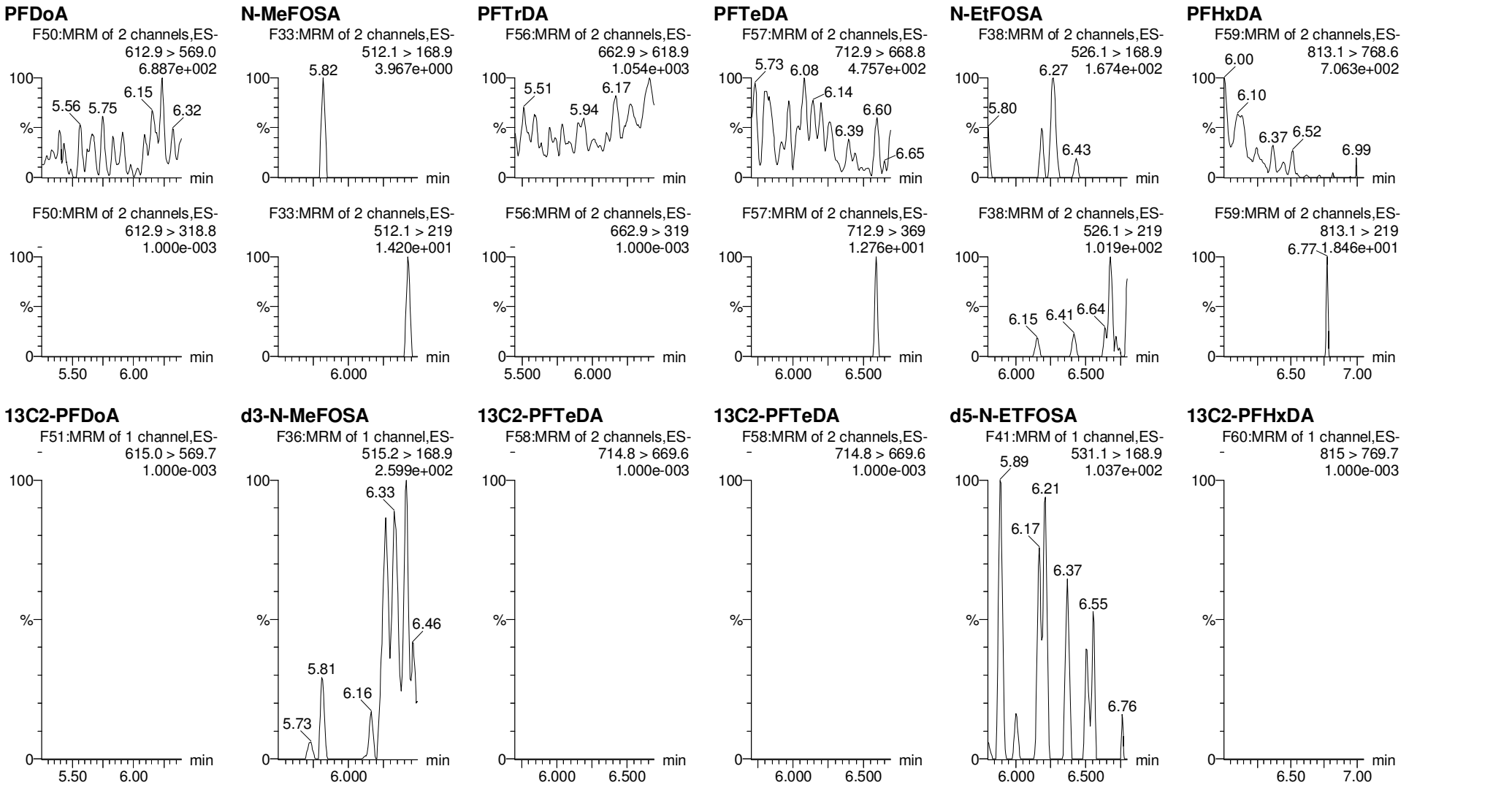


Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time
Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

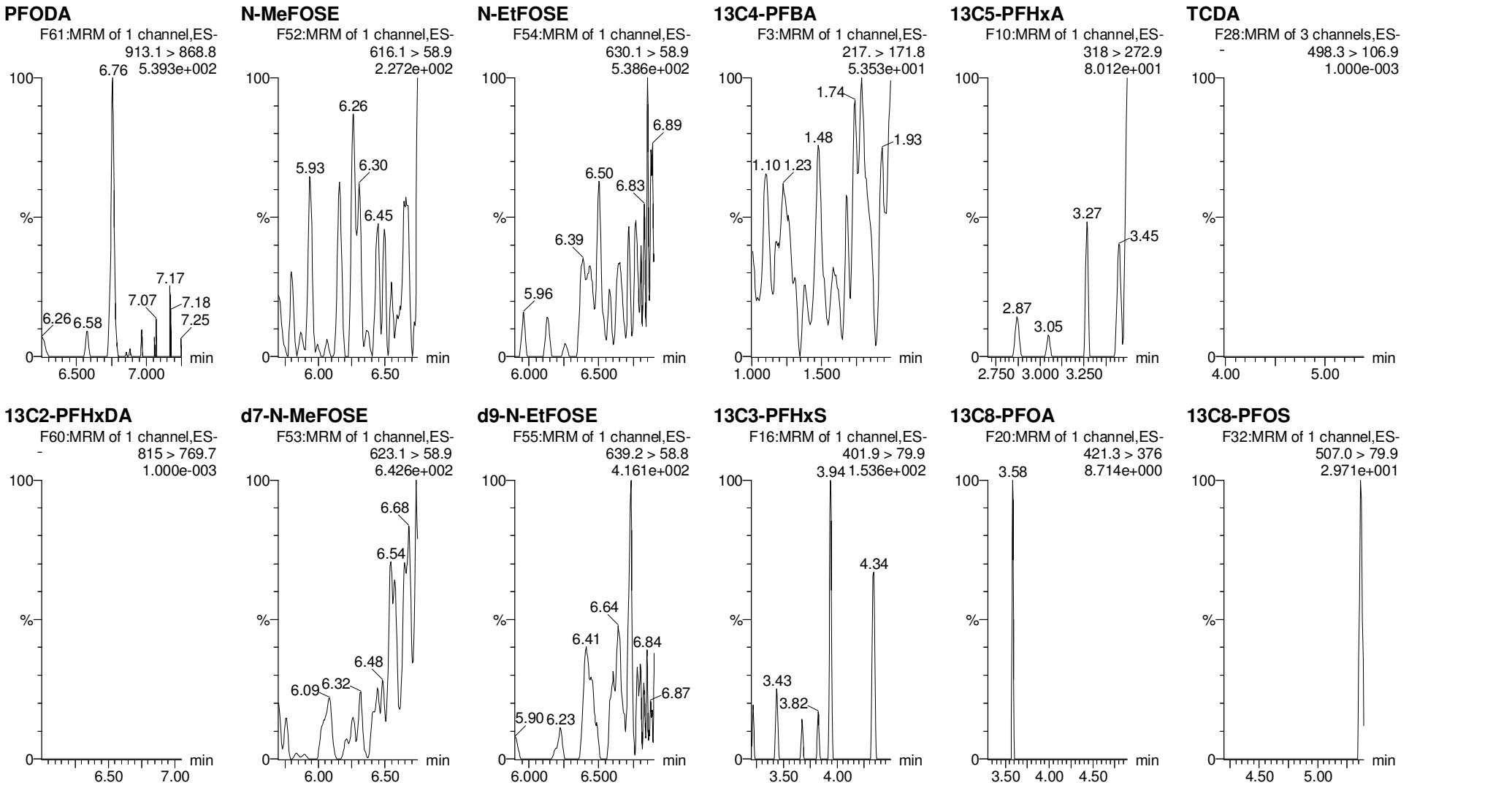


Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time
Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

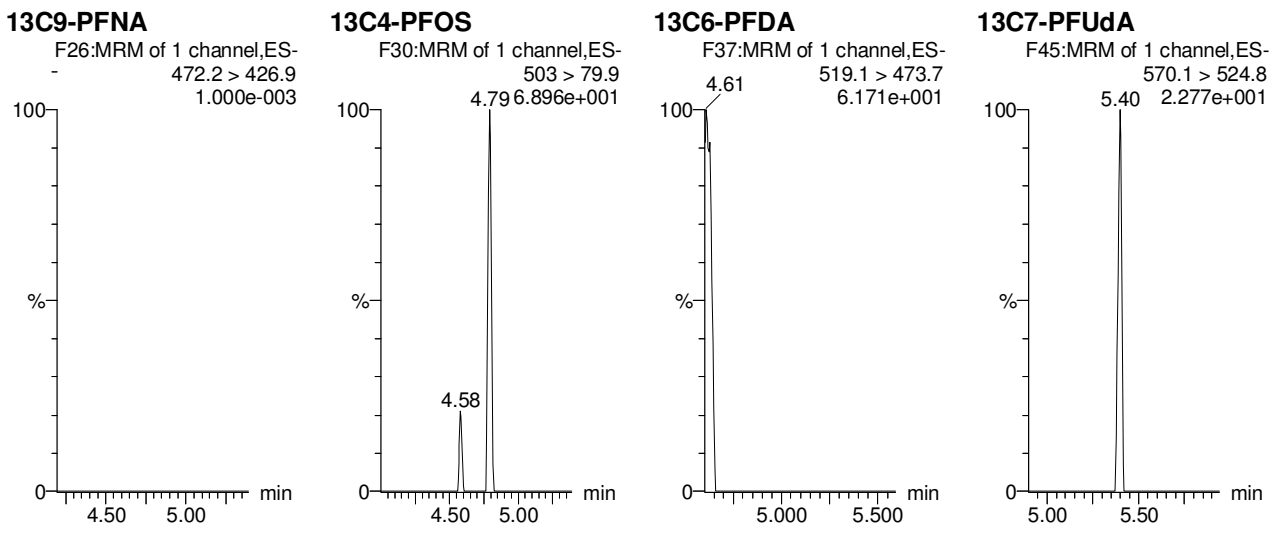


Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA



**DATA VALIDATION SUMMARY REPORT
NWS YORKTOWN, VIRGINIA**

Client: CH2M HILL, Inc., Virginia Beach, Virginia
SDG: 1701886
Laboratory: Vista Analytical Laboratory, El Dorado Hills, California
Site: Naval Weapons Station (NWS) Yorktown, Site 22, CTO-WE72
Date: March 5, 2018

PFCs			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	YS22-EB01-120417	1701886-01	Water
2	YS22-AQ-120517	1701886-02	Water
3	YS22-GW18-1217	1701886-03	Water

A full data validation was performed on the analytical data for two water samples and one aqueous equipment blank sample collected on December 4, 2017 by CH2M HILL at the NWS Yorktown site in 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, the Final Sampling and Analysis Plan Site 22 Supplemental Pre-Design Investigation, Naval Weapons Station Yorktown, August 2017, 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 recoveries (%R) and RRF criteria were met except for the following.

CCAL Date	Compound	%R/RRF	Qualifier	Affected Samples
01/16/18 (0500)	PFD _o A	136.2%	None	Associated Cmpd ND
01/16/18 (0815)	PFD _o A	146.6%	None	Associated Cmpds ND
	PFT _r DA	150.2%	None	

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
YS22-EB01-120417	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:



Nancy Weaver
Senior Chemist

Dated: 3/6/18

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Sample ID: YS22-EB01-120417				Modified EPA Method 537						
Client Data		Laboratory Data								
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701886-01	Column:	BEH C18			
Project:	NWS Yorktown/ 680536	Date Collected:	04-Dec-17 16:00	Date Received:	07-Dec-17 09:23					
Location:	Site 22									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.90	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHxA	ND	2.32	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHpA	ND	0.629	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFHxS	ND	1.01	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFOA	ND	0.693	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFOS	ND	0.859	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFNA	ND	0.862	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFDA	ND	1.59	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
MeFOSAA	ND	1.76	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFUnA	ND	1.12	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
EtFOSAA	ND	1.46	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFDoA	ND	0.843	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFTTrDA	ND	0.526	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
PFTeDA	ND	0.803	5.34	8.51		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	110	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C2-PFHxA	IS	104	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C4-PFHpA	IS	118	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
18O2-PFHxS	IS	105	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C2-PFOA	IS	102	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C8-PFOS	IS	105	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C5-PFNA	IS	89.0	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C2-PFDA	IS	79.6	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
d3-MeFOSAA	IS	95.0	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C2-PFUnA	IS	87.5	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
d5-EtFOSAA	IS	103	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C2-PFDoA	IS	81.4	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	
13C2-PFTeDA	IS	98.3	50 - 150		B7L0120	18-Dec-17	0.117 L	16-Jan-18 07:29	1	

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

LCL-UCCL - Lower control limit - upper control limit
Results reported to the DL

LOD - Limit of Detection
LOQ - Limit of quantitation

DL - Detection Limit

rw 3/5/18

Sample ID: YS22-AQ-120517

Modified EPA Method 537

Client Data			Laboratory Data							
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701886-02	Column:	BEH C18			
Project:	NWS Yorktown/ 680536	Date Collected:	05-Dec-17 08:45	Date Received:	07-Dec-17 09:23					
Location:	Site 22									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.05	1.90	5.30	8.47	J	B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHxA	3.55	2.31	5.30	8.47	J	B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHpA	ND	0.626	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFHxS	15.5	1.00	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFOA	ND	0.690	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFOS	11.1	0.855	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFNA	ND	0.858	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFDA	ND	1.58	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
MeFOSAA	ND	1.75	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFUnA	ND	1.11	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
EtFOSAA	ND	1.45	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFDoA	ND	0.839	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFTTrDA	ND	0.523	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
PFTeDA	ND	0.800	5.30	8.47		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	121	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C2-PFHxA	IS	121	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C4-PFHpA	IS	119	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
18O2-PFHxS	IS	94.1	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C2-PFOA	IS	112	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C8-PFOS	IS	109	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C5-PFNA	IS	119	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C2-PFDA	IS	98.1	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
d3-MeFOSAA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C2-PFUnA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
d5-EtFOSAA	IS	122	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C2-PFDoA	IS	109	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	
13C2-PFTeDA	IS	110	50 - 150		B7L0120	18-Dec-17	0.118 L	16-Jan-18 07:41	1	

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

LCL-ULCL- Lower control limit - upper control limit
Results reported to the DL

LOD - Limit of Detection
LOQ - Limit of quantitation

DL - Detection Limit

3/5/18

Sample ID: YS22-GW18-1217

Modified EPA Method 537

Client Data			Laboratory Data							
Name:	CH2M Hill	Matrix:	Aqueous	Lab Sample:	1701886-03	Column:	BEH C18			
Project:	NWS Yorktown/ 680536	Date Collected:	04-Dec-17 17:20	Date Received:	07-Dec-17 09:23					
Location:	Site 22									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	1.88	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFHxA	ND	2.28	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFHpA	ND	0.619	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFHxS	ND	0.992	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFOA	ND	0.682	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFOS	ND	0.846	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFNA	ND	0.849	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFDA	ND	1.56	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
MeFOSAA	ND	1.73	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFUnA	ND	1.10	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
EtFOSAA	ND	1.44	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFDoA	ND	0.830	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFTrDA	ND	0.518	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
PFTeDA	ND	0.791	5.25	8.38		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	120	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFHxA	IS	110	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C4-PFHpA	IS	130	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
18O2-PFHxS	IS	119	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFOA	IS	99.3	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C8-PFOS	IS	98.3	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C5-PFNA	IS	92.9	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFDA	IS	106	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
d3-MeFOSAA	IS	96.1	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFUnA	IS	88.9	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
d5-EtFOSAA	IS	92.2	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFDoA	IS	90.2	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	
13C2-PFTeDA	IS	100	50 - 150		B7L0120	18-Dec-17	0.119 L	16-Jan-18 07:52	1	

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

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

LOD - Limit of Detection
LOQ - Limit of quantitation

DL - Detection Limit

NW 3/5/18

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
		YORKTOWN_NWS			1701886			Perfluoroalkyl Compounds	YS22-EB01-	WQ	Water for QC samples	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17
YS22-GW18	SITE 00022	YORKTOWN_NWS	WLM	Monitoring well	1701886	12043852.3	3621605.62	Perfluoroalkyl Compounds	YS22-GW18-	WG	Ground water	04-Dec-17