



**Groundwater Sample Results,
Level 4 Laboratory Report, Electronic Data
Deliverable, Data Validation Report, Sample Location
Report, SDG 1700871**

MCAS
El Toro, CA
April 2021



August 04, 2017

Vista Work Order No. 1700871

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

Dear Ms. Nikmanesh,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on July 14, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'MCAS El Toro, BRAC PFAS'.

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. 1700871

Case Narrative

Sample Condition on Receipt:

Two Blank Water and nine groundwater 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.

Analytical Notes:

Modified EPA Method 537

The samples were extracted and analyzed for a selected list of 14 PFAS using Modified EPA Method 537.

Samples "18-GW-18BGM03E-20170712", "24-GW-24IN03-20170712", "DUP02-20170712", "24-GW-24EX13A-20170712", "24-GW-24MW15D-20170712", "16-GW-16_MW19-20170712", and "16-GW-16_MW04-20170713" contained particulate and were centrifuged prior to extraction.

The results for PFTrDA and PFTeDA were taken from re-injections of the sample extracts; these analytes were outside the method criteria in the original CCV.

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1700871-04	24-GW-24IN03-20170712	Modified EPA Method 537	13C2-PFTeDA	H	3.50
1700871-05	DUP02-20170712	Modified EPA Method 537	13C2-PFTeDA	H	19.3
1700871-10	EB04-20170713	Modified EPA Method 537	13C2-PFTeDA	H	29.2
1700871-11	16-GW-16_MW04-20170713	Modified EPA Method 537	13C4-PFHpA	H	162
1700871-11	16-GW-16_MW04-20170713	Modified EPA Method 537	13C2-PFTeDA	H	33.6

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1700871-01	EB03-20170712	12-Jul-17 14:00	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-02	5-GW-05_DGMW41B-20170712	12-Jul-17 08:10	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-03	18-GW-18BGM03E-20170712	12-Jul-17 09:30	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-04	24-GW-24IN03-20170712	12-Jul-17 10:45	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-05	DUP02-20170712	12-Jul-17 10:50	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-06	24-GW-24EX13A-20170712	12-Jul-17 11:40	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-07	24-GW-24MW15D-20170712	12-Jul-17 12:40	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-08	16-GW-16_MW28-20170712	12-Jul-17 14:20	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-09	16-GW-16_MW19-20170712	12-Jul-17 16:00	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-10	EB04-20170713	13-Jul-17 09:00	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
1700871-11	16-GW-16_MW04-20170713	13-Jul-17 08:00	14-Jul-17 09:33	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank						Modified EPA Method 537				
Matrix: Aqueous Sample Size: 0.250 L		QC Batch: B7G0067 Date Extracted: 20-Jul-2017 7:41				Lab Sample: B7G0067-BLK1 Date Analyzed: 27-Jul-17 21:08 Column: BEH C18 31-Jul-17 12:52 Column: BEH C18				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	ND	0.895	2.50	4.00		IS	13C3-PFBS	116	50 - 150	
PFHxA	ND	1.09	2.50	4.00		IS	13C2-PFHxA	107	50 - 150	
PFHpA	ND	0.296	2.50	4.00		IS	13C4-PFHpA	109	50 - 150	
PFHxS	ND	0.474	2.50	4.00		IS	18O2-PFHxS	105	50 - 150	
PFOA	ND	0.326	2.50	4.00		IS	13C2-PFOA	105	50 - 150	
PFOS	ND	0.404	2.50	4.00		IS	13C8-PFOS	113	50 - 150	
PFNA	ND	0.405	2.50	4.00		IS	13C5-PFNA	105	50 - 150	
PFDA	ND	0.745	2.50	4.00		IS	13C2-PFDA	95.9	50 - 150	
MeFOSAA	ND	0.825	2.50	4.00		IS	d3-MeFOSAA	95.2	50 - 150	
PFUnA	ND	0.525	2.50	4.00		IS	13C2-PFUnA	95.3	50 - 150	
EtFOSAA	ND	0.685	2.50	4.00		IS	d5-EtFOSAA	85.0	50 - 150	
PFDaA	ND	0.396	2.50	4.00		IS	13C2-PFDaA	113	50 - 150	
PFTTrDA	ND	0.247	2.50	4.00		IS	13C2-PFTeDA	57.9	50 - 150	
PFTeDA	ND	0.378	2.50	4.00						

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: OPR

Modified EPA Method 537

Matrix: Aqueous Sample Size: 0.250 L		QC Batch: B7G0067 Date Extracted: 20-Jul-2017 7:41		Lab Sample: B7G0067-BS1 Date Analyzed: 27-Jul-17 21:29 Column: BEH C18 31-Jul-17 12:31 Column: BEH C18			
Analyte	Amt Found (ng/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PFBS	37.1	40.0	92.8	70 - 130	IS 13C3-PFBS	118	50 - 150
PFHxA	37.3	40.0	93.3	70 - 130	IS 13C2-PFHxA	119	50 - 150
PFHpA	38.3	40.0	95.8	70 - 130	IS 13C4-PFHpA	112	50 - 150
PFHxS	39.0	40.0	97.5	70 - 130	IS 18O2-PFHxS	116	50 - 150
PFOA	41.6	40.0	104	70 - 130	IS 13C2-PFOA	112	50 - 150
PFOS	37.6	40.0	93.9	70 - 130	IS 13C8-PFOS	127	50 - 150
PFNA	38.7	40.0	96.7	70 - 130	IS 13C5-PFNA	105	50 - 150
PFDA	40.7	40.0	102	70 - 130	IS 13C2-PFDA	87.8	50 - 150
MeFOSAA	40.2	40.0	100	70 - 130	IS d3-MeFOSAA	81.4	50 - 150
PFUnA	41.8	40.0	105	70 - 130	IS 13C2-PFUnA	83.5	50 - 150
EtFOSAA	38.9	40.0	97.2	70 - 130	IS d5-EtFOSAA	82.5	50 - 150
PFDoA	35.7	40.0	89.4	70 - 130	IS 13C2-PFDoA	99.6	50 - 150
PFTTrDA	36.9	40.0	92.1	60 - 130	IS 13C2-PFTeDA	60.2	50 - 150
PFTeDA	41.3	40.0	103	70 - 130			

LCL-UCL - Lower control limit - upper control limit

Sample ID: EB03-20170712 **Modified EPA Method 537**

Client Data			Sample Data			Laboratory Data					
Name:	KMEA		Matrix:	Blank Water		Lab Sample:	1700871-01		Date Received:	14-Jul-2017 9:33	
Project:	MCAS El Toro, BRAC PFAS		Sample Size:	0.121 L		QC Batch:	B7G0067		Date Extracted:	20-Jul-2017 7:41	
Date Collected:	12-Jul-2017 14:00					Date Analyzed:	28-Jul-17 00:11		Column:	BEH C18	
Location:							31-Jul-17 16:04		Column:	BEH C18	
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	ND	1.84	5.17	8.23		IS	13C3-PFBS	119	50 - 150		
PFHxA	ND	2.24	5.17	8.23		IS	13C2-PFHxA	118	50 - 150		
PFHpA	ND	0.608	5.17	8.23		IS	13C4-PFHpA	111	50 - 150		
PFHxS	ND	0.975	5.17	8.23		IS	18O2-PFHxS	110	50 - 150		
PFOA	ND	0.670	5.17	8.23		IS	13C2-PFOA	122	50 - 150		
PFOS	ND	0.831	5.17	8.23		IS	13C8-PFOS	118	50 - 150		
PFNA	ND	0.834	5.17	8.23		IS	13C5-PFNA	95.8	50 - 150		
PFDA	ND	1.53	5.17	8.23		IS	13C2-PFDA	101	50 - 150		
MeFOSAA	ND	1.70	5.17	8.23		IS	d3-MeFOSAA	95.8	50 - 150		
PFUnA	ND	1.08	5.17	8.23		IS	13C2-PFUnA	90.1	50 - 150		
EtFOSAA	ND	1.41	5.17	8.23		IS	d5-EtFOSAA	98.4	50 - 150		
PFDaA	ND	0.815	5.17	8.23		IS	13C2-PFDaA	99.7	50 - 150		
PFTTrDA	ND	0.508	5.17	8.23		IS	13C2-PFTeDA	71.0	50 - 150		
PFTeDA	ND	0.777	5.17	8.23							

DL - Detection limit
RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit
Results reported to DL.
When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: 5-GW-05_DGMW41B-20170712 **Modified EPA Method 537**

Client Data			Sample Data			Laboratory Data				
Name:	KMEA		Matrix:	Groundwater		Lab Sample:	1700871-02	Date Received:	14-Jul-2017 9:33	
Project:	MCAS El Toro, BRAC PFAS		Sample Size:	0.115 L		QC Batch:	B7G0067	Date Extracted:	20-Jul-2017 7:41	
Date Collected:	12-Jul-2017 8:10					Date Analyzed:	28-Jul-17 00:22	Column:	BEH C18	
Location:						31-Jul-17 16:15 Column: BEH C18				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	4.19	1.94	5.43	8.66	J	IS	13C3-PFBS	116	50 - 150	
PFHxA	8.79	2.36	5.43	8.66		IS	13C2-PFHxA	112	50 - 150	
PFHpA	3.60	0.640	5.43	8.66	J	IS	13C4-PFHpA	110	50 - 150	
PFHxS	11.2	1.03	5.43	8.66		IS	18O2-PFHxS	104	50 - 150	
PFOA	27.8	0.705	5.43	8.66		IS	13C2-PFOA	107	50 - 150	
PFOS	4.13	0.874	5.43	8.66	J	IS	13C8-PFOS	109	50 - 150	
PFNA	ND	0.877	5.43	8.66		IS	13C5-PFNA	95.6	50 - 150	
PFDA	ND	1.61	5.43	8.66		IS	13C2-PFDA	95.1	50 - 150	
MeFOSAA	ND	1.79	5.43	8.66		IS	d3-MeFOSAA	97.8	50 - 150	
PFUnA	ND	1.14	5.43	8.66		IS	13C2-PFUnA	96.8	50 - 150	
EtFOSAA	ND	1.48	5.43	8.66		IS	d5-EtFOSAA	104	50 - 150	
PFDaA	ND	0.857	5.43	8.66		IS	13C2-PFDaA	103	50 - 150	
PFTTrDA	ND	0.535	5.43	8.66		IS	13C2-PFTeDA	55.3	50 - 150	
PFTeDA	ND	0.817	5.43	8.66						

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: 18-GW-18BGM03E-20170712 **Modified EPA Method 537**

Client Data			Sample Data			Laboratory Data					
Name:	KMEA		Matrix:	Groundwater		Lab Sample:	1700871-03		Date Received:	14-Jul-2017 9:33	
Project:	MCAS El Toro, BRAC PFAS		Sample Size:	0.118 L		QC Batch:	B7G0067		Date Extracted:	20-Jul-2017 7:41	
Date Collected:	12-Jul-2017 9:30					Date Analyzed:	28-Jul-17 00:33		Column:	BEH C18	
Location:							31-Jul-17 16:25		Column:	BEH C18	
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers	
PFBS	ND	1.90	5.30	8.50		IS	13C3-PFBS	111	50 - 150		
PFHxA	7.61	2.32	5.30	8.50	J	IS	13C2-PFHxA	107	50 - 150		
PFHpA	ND	0.628	5.30	8.50		IS	13C4-PFHpA	111	50 - 150		
PFHxS	2.38	1.01	5.30	8.50	J	IS	18O2-PFHxS	112	50 - 150		
PFOA	3.53	0.692	5.30	8.50	J	IS	13C2-PFOA	108	50 - 150		
PFOS	ND	0.857	5.30	8.50		IS	13C8-PFOS	116	50 - 150		
PFNA	ND	0.861	5.30	8.50		IS	13C5-PFNA	104	50 - 150		
PFDA	ND	1.58	5.30	8.50		IS	13C2-PFDA	95.5	50 - 150		
MeFOSAA	ND	1.75	5.30	8.50		IS	d3-MeFOSAA	85.0	50 - 150		
PFUnA	ND	1.12	5.30	8.50		IS	13C2-PFUnA	89.4	50 - 150		
EtFOSAA	ND	1.46	5.30	8.50		IS	d5-EtFOSAA	90.4	50 - 150		
PFDaA	ND	0.841	5.30	8.50		IS	13C2-PFDaA	95.2	50 - 150		
PFTTrDA	ND	0.525	5.30	8.50		IS	13C2-PFTeDA	56.3	50 - 150		
PFTeDA	ND	0.802	5.30	8.50							

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: 24-GW-24IN03-20170712 **Modified EPA Method 537**

Client Data		Sample Data		Laboratory Data	
Name:	KMEA	Matrix:	Groundwater	Lab Sample:	1700871-04
Project:	MCAS El Toro, BRAC PFAS	Sample Size:	0.117 L	QC Batch:	B7G0067
Date Collected:	12-Jul-2017 10:45			Date Analyzed:	28-Jul-17 00:44 Column: BEH C18
Location:					31-Jul-17 16:36 Column: BEH C18
Date Received:					14-Jul-2017 9:33
Date Extracted:					20-Jul-2017 7:41

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	8.97	1.91	5.34	8.52		IS 13C3-PFBS	121	50 - 150	
PFHxA	41.2	2.32	5.34	8.52		IS 13C2-PFHxA	115	50 - 150	
PFHpA	5.95	0.629	5.34	8.52	J	IS 13C4-PFHpA	112	50 - 150	
PFHxS	18.9	1.01	5.34	8.52		IS 18O2-PFHxS	119	50 - 150	
PFOA	40.3	0.693	5.34	8.52		IS 13C2-PFOA	108	50 - 150	
PFOS	ND	0.859	5.34	8.52		IS 13C8-PFOS	107	50 - 150	
PFNA	ND	0.862	5.34	8.52		IS 13C5-PFNA	110	50 - 150	
PFDA	ND	1.59	5.34	8.52		IS 13C2-PFDA	94.0	50 - 150	
MeFOSAA	ND	1.76	5.34	8.52		IS d3-MeFOSAA	111	50 - 150	
PFUnA	ND	1.12	5.34	8.52		IS 13C2-PFUnA	101	50 - 150	
EtFOSAA	ND	1.46	5.34	8.52		IS d5-EtFOSAA	86.2	50 - 150	
PFDaA	ND	0.843	5.34	8.52		IS 13C2-PFDaA	98.9	50 - 150	
PFTTrDA	ND	0.526	5.34	8.52		IS 13C2-PFTeDA	3.50	50 - 150	H
PFTeDA	ND	0.804	5.34	8.52					

DL - Detection limit
RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit
Results reported to DL.
When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: DUP02-20170712

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	KMEA	Matrix:	Groundwater	Lab Sample:	1700871-05	Date Received:	14-Jul-2017	9:33	
Project:	MCAS El Toro, BRAC PFAS	Sample Size:	0.118 L	QC Batch:	B7G0067	Date Extracted:	20-Jul-2017	7:41	
Date Collected:	12-Jul-2017 10:50			Date Analyzed:	28-Jul-17 00:54	Column:	BEH C18		
Location:					31-Jul-17 16:48	Column:	BEH C18		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	9.66	1.90	5.30	8.47		IS 13C3-PFBS	112	50 - 150	
PFHxA	44.7	2.31	5.30	8.47		IS 13C2-PFHxA	110	50 - 150	
PFHpA	6.96	0.626	5.30	8.47	J	IS 13C4-PFHpA	103	50 - 150	
PFHxS	17.6	1.00	5.30	8.47		IS 18O2-PFHxS	116	50 - 150	
PFOA	42.7	0.689	5.30	8.47		IS 13C2-PFOA	100	50 - 150	
PFOS	ND	0.854	5.30	8.47		IS 13C8-PFOS	109	50 - 150	
PFNA	ND	0.858	5.30	8.47		IS 13C5-PFNA	99.1	50 - 150	
PFDA	ND	1.58	5.30	8.47		IS 13C2-PFDA	81.4	50 - 150	
MeFOSAA	ND	1.75	5.30	8.47		IS d3-MeFOSAA	92.4	50 - 150	
PFUnA	ND	1.11	5.30	8.47		IS 13C2-PFUnA	86.4	50 - 150	
EtFOSAA	ND	1.45	5.30	8.47		IS d5-EtFOSAA	85.0	50 - 150	
PFDaA	ND	0.838	5.30	8.47		IS 13C2-PFDaA	104	50 - 150	
PFTTrDA	ND	0.523	5.30	8.47		IS 13C2-PFTeDA	19.3	50 - 150	H
PFTeDA	ND	0.799	5.30	8.47					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: 24-GW-24EX13A-20170712

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	KMEA	Matrix:	Groundwater	Lab Sample:	1700871-06	Date Received:	14-Jul-2017	9:33	
Project:	MCAS El Toro, BRAC PFAS	Sample Size:	0.119 L	QC Batch:	B7G0067	Date Extracted:	20-Jul-2017	7:41	
Date Collected:	12-Jul-2017 11:40			Date Analyzed:	28-Jul-17 01:05	Column:	BEH C18		
Location:					31-Jul-17 16:58	Column:	BEH C18		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	200	1.89	5.25	8.44		IS 13C3-PFBS	122	50 - 150	
PFHxA	439	2.30	5.25	8.44		IS 13C2-PFHxA	109	50 - 150	
PFHpA	64.0	0.623	5.25	8.44		IS 13C4-PFHpA	109	50 - 150	
PFHxS	235	0.999	5.25	8.44		IS 18O2-PFHxS	113	50 - 150	
PFOA	77.6	0.687	5.25	8.44		IS 13C2-PFOA	102	50 - 150	
PFOS	1.88	0.851	5.25	8.44	J	IS 13C8-PFOS	114	50 - 150	
PFNA	ND	0.854	5.25	8.44		IS 13C5-PFNA	99.9	50 - 150	
PFDA	ND	1.57	5.25	8.44		IS 13C2-PFDA	88.4	50 - 150	
MeFOSAA	ND	1.74	5.25	8.44		IS d3-MeFOSAA	112	50 - 150	
PFUnA	ND	1.11	5.25	8.44		IS 13C2-PFUnA	90.1	50 - 150	
EtFOSAA	ND	1.45	5.25	8.44		IS d5-EtFOSAA	108	50 - 150	
PFDaA	ND	0.835	5.25	8.44		IS 13C2-PFDaA	100	50 - 150	
PFTTrDA	ND	0.521	5.25	8.44		IS 13C2-PFTeDA	58.4	50 - 150	
PFTeDA	ND	0.796	5.25	8.44					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: 24-GW-24MW15D-20170712

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	KMEA	Matrix:	Groundwater	Lab Sample:	1700871-07	Date Received:	14-Jul-2017	9:33	
Project:	MCAS El Toro, BRAC PFAS	Sample Size:	0.119 L	QC Batch:	B7G0067	Date Extracted:	20-Jul-2017	7:41	
Date Collected:	12-Jul-2017 12:40			Date Analyzed:	28-Jul-17 01:16	Column:	BEH C18		
Location:					31-Jul-17 17:09	Column:	BEH C18		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	37.4	1.88	5.25	8.38		IS 13C3-PFBS	118	50 - 150	
PFHxA	140	2.28	5.25	8.38		IS 13C2-PFHxA	107	50 - 150	
PFHpA	20.4	0.619	5.25	8.38		IS 13C4-PFHpA	105	50 - 150	
PFHxS	70.8	0.992	5.25	8.38		IS 18O2-PFHxS	97.8	50 - 150	
PFOA	141	0.682	5.25	8.38		IS 13C2-PFOA	105	50 - 150	
PFOS	ND	0.846	5.25	8.38		IS 13C8-PFOS	107	50 - 150	
PFNA	ND	0.849	5.25	8.38		IS 13C5-PFNA	114	50 - 150	
PFDA	ND	1.56	5.25	8.38		IS 13C2-PFDA	86.7	50 - 150	
MeFOSAA	ND	1.73	5.25	8.38		IS d3-MeFOSAA	105	50 - 150	
PFUnA	ND	1.10	5.25	8.38		IS 13C2-PFUnA	92.9	50 - 150	
EtFOSAA	ND	1.44	5.25	8.38		IS d5-EtFOSAA	102	50 - 150	
PFDaA	ND	0.830	5.25	8.38		IS 13C2-PFDaA	121	50 - 150	
PFTTrDA	ND	0.518	5.25	8.38		IS 13C2-PFTeDA	59.6	50 - 150	
PFTeDA	ND	0.791	5.25	8.38					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: 16-GW-16_MW28-20170712

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	KMEA	Matrix:	Groundwater	Lab Sample:	1700871-08	Date Received:	14-Jul-2017	9:33	
Project:	MCAS El Toro, BRAC PFAS	Sample Size:	0.119 L	QC Batch:	B7G0067	Date Extracted:	20-Jul-2017	7:41	
Date Collected:	12-Jul-2017 14:20			Date Analyzed:	28-Jul-17 01:58	Column:	BEH C18		
Location:					31-Jul-17 17:20	Column:	BEH C18		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	149	1.88	5.25	8.40		IS 13C3-PFBS	116	50 - 150	
PFHxA	404	2.29	5.25	8.40		IS 13C2-PFHxA	109	50 - 150	
PFHpA	0.887	0.621	5.25	8.40	J	IS 13C4-PFHpA	113	50 - 150	
PFHxS	ND	0.995	5.25	8.40		IS 18O2-PFHxS	112	50 - 150	
PFOA	ND	0.684	5.25	8.40		IS 13C2-PFOA	101	50 - 150	
PFOS	ND	0.848	5.25	8.40		IS 13C8-PFOS	109	50 - 150	
PFNA	ND	0.851	5.25	8.40		IS 13C5-PFNA	97.4	50 - 150	
PFDA	ND	1.57	5.25	8.40		IS 13C2-PFDA	88.2	50 - 150	
MeFOSAA	ND	1.73	5.25	8.40		IS d3-MeFOSAA	98.9	50 - 150	
PFUnA	ND	1.10	5.25	8.40		IS 13C2-PFUnA	90.1	50 - 150	
EtFOSAA	ND	1.44	5.25	8.40		IS d5-EtFOSAA	101	50 - 150	
PFDaA	ND	0.832	5.25	8.40		IS 13C2-PFDaA	100	50 - 150	
PFTTrDA	ND	0.519	5.25	8.40		IS 13C2-PFTeDA	87.2	50 - 150	
PFTeDA	ND	0.793	5.25	8.40					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: 16-GW-16_MW19-20170712

Modified EPA Method 537

Client Data		Sample Data		Laboratory Data					
Name:	KMEA	Matrix:	Groundwater	Lab Sample:	1700871-09	Date Received:	14-Jul-2017	9:33	
Project:	MCAS El Toro, BRAC PFAS	Sample Size:	0.119 L	QC Batch:	B7G0067	Date Extracted:	20-Jul-2017	7:41	
Date Collected:	12-Jul-2017 16:00			Date Analyzed:	28-Jul-17 02:09	Column:	BEH C18		
Location:					31-Jul-17 17:30	Column:	BEH C18		
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
PFBS	163	1.88	5.25	8.39		IS 13C3-PFBS	120	50 - 150	
PFHxA	50.2	2.29	5.25	8.39		IS 13C2-PFHxA	111	50 - 150	
PFHpA	5.33	0.620	5.25	8.39	J	IS 13C4-PFHpA	114	50 - 150	
PFHxS	21.6	0.994	5.25	8.39		IS 18O2-PFHxS	112	50 - 150	
PFOA	ND	0.683	5.25	8.39		IS 13C2-PFOA	107	50 - 150	
PFOS	2.21	0.847	5.25	8.39	J	IS 13C8-PFOS	109	50 - 150	
PFNA	ND	0.850	5.25	8.39		IS 13C5-PFNA	106	50 - 150	
PFDA	ND	1.56	5.25	8.39		IS 13C2-PFDA	100	50 - 150	
MeFOSAA	ND	1.73	5.25	8.39		IS d3-MeFOSAA	108	50 - 150	
PFUnA	ND	1.10	5.25	8.39		IS 13C2-PFUnA	87.3	50 - 150	
EtFOSAA	ND	1.44	5.25	8.39		IS d5-EtFOSAA	114	50 - 150	
PFDaA	ND	0.831	5.25	8.39		IS 13C2-PFDaA	117	50 - 150	
PFTTrDA	ND	0.518	5.25	8.39		IS 13C2-PFTeDA	70.8	50 - 150	
PFTeDA	ND	0.792	5.25	8.39					

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.

Only the linear isomer is reported for all other analytes.

Sample ID: EB04-20170713						Modified EPA Method 537				
Client Data Name: KMEA Project: MCAS El Toro, BRAC PFAS Date Collected: 13-Jul-2017 9:00 Location:			Sample Data Matrix: Blank Water Sample Size: 0.116 L		Laboratory Data Lab Sample: 1700871-10 Date Received: 14-Jul-2017 9:33 QC Batch: B7G0067 Date Extracted: 20-Jul-2017 7:41 Date Analyzed: 28-Jul-17 02:20 Column: BEH C18 31-Jul-17 17:41 Column: BEH C18					
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	ND	1.92	5.39	8.59		IS	13C3-PFBS	114	50 - 150	
PFHxA	ND	2.34	5.39	8.59		IS	13C2-PFHxA	107	50 - 150	
PFHpA	ND	0.634	5.39	8.59		IS	13C4-PFHpA	102	50 - 150	
PFHxS	ND	1.02	5.39	8.59		IS	18O2-PFHxS	106	50 - 150	
PFOA	ND	0.699	5.39	8.59		IS	13C2-PFOA	96.3	50 - 150	
PFOS	ND	0.866	5.39	8.59		IS	13C8-PFOS	108	50 - 150	
PFNA	ND	0.869	5.39	8.59		IS	13C5-PFNA	97.4	50 - 150	
PFDA	ND	1.60	5.39	8.59		IS	13C2-PFDA	90.8	50 - 150	
MeFOSAA	ND	1.77	5.39	8.59		IS	d3-MeFOSAA	94.0	50 - 150	
PFUnA	ND	1.13	5.39	8.59		IS	13C2-PFUnA	87.8	50 - 150	
EtFOSAA	ND	1.47	5.39	8.59		IS	d5-EtFOSAA	90.1	50 - 150	
PFDaA	ND	0.850	5.39	8.59		IS	13C2-PFDaA	62.2	50 - 150	
PFTTrDA	ND	0.530	5.39	8.59		IS	13C2-PFTeDA	29.2	50 - 150	H
PFTeDA	ND	0.810	5.39	8.59						

DL - Detection limit
RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit
Results reported to DL.
When reported, PFBS, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: 16-GW-16_MW04-20170713

Modified EPA Method 537

Client Data			Sample Data			Laboratory Data				
Name:	KMEA		Matrix:	Groundwater		Lab Sample:	1700871-11		Date Received:	14-Jul-2017 9:33
Project:	MCAS El Toro, BRAC PFAS		Sample Size:	0.120 L		QC Batch:	B7G0067		Date Extracted:	20-Jul-2017 7:41
Date Collected:	13-Jul-2017 8:00					Date Analyzed:	03-Aug-17 17:49		Column:	BEH C18
Location:							31-Jul-17 17:52		Column:	BEH C18
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Labeled Standard		%R	LCL-UCL	Qualifiers
PFBS	3280	9.29	26.0	41.5	D	IS	13C3-PFBS	79.3	50 - 150	D
PFHxA	2550	11.3	26.0	41.5	D	IS	13C2-PFHxA	88.7	50 - 150	D
PFHpA	ND	0.613	5.21	8.30		IS	13C4-PFHpA	162	50 - 150	H
PFHxS	ND	0.983	5.21	8.30		IS	18O2-PFHxS	110	50 - 150	
PFOA	ND	0.676	5.21	8.30		IS	13C2-PFOA	101	50 - 150	
PFOS	ND	0.838	5.21	8.30		IS	13C8-PFOS	111	50 - 150	
PFNA	ND	0.841	5.21	8.30		IS	13C5-PFNA	108	50 - 150	
PFDA	ND	1.55	5.21	8.30		IS	13C2-PFDA	95.0	50 - 150	
MeFOSAA	ND	1.71	5.21	8.30		IS	d3-MeFOSAA	135	50 - 150	
PFUnA	ND	1.09	5.21	8.30		IS	13C2-PFUnA	95.2	50 - 150	
EtFOSAA	ND	1.42	5.21	8.30		IS	d5-EtFOSAA	130	50 - 150	
PFDaA	ND	0.822	5.21	8.30		IS	13C2-PFDaA	58.7	50 - 150	
PFTTrDA	ND	0.513	5.21	8.30		IS	13C2-PFTeDA	33.6	50 - 150	H
PFTeDA	ND	0.784	5.21	8.30						

DL - Detection limit

RL - Reporting limit

LCL-UCL - Lower control limit - upper control limit

Results reported to DL.

When reported, PFBS, 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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Arkansas Department of Environmental Quality	17-015-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-18
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2016026
Minnesota Department of Health	1175673
Nevada Division of Environmental Protection	CA004132017-1
New Hampshire Environmental Accreditation Program	207716
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-008
Pennsylvania Department of Environmental Protection	013
Texas Commission on Environmental Quality	T104704189-17-8
Virginia Department of General Services	8621
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

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

NELAP Accredited Test Methods

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

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

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

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

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

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

Vista Analytical

1104 Windfield Way
 El Dorado Hills, CA 95762
 TEL: 916-673-1520

Vista PM: Karen Volpendesta

CHAIN OF CUSTODY RECORD

DATE: 7/12/2017

PAGE: 1 OF 1

LABORATORY CLIENT: AMEC Foster Wheeler E & I, Inc.						CLIENT PROJECT NAME / NUMBER: MCAS EI Toro, BRAC PFAS						P.O. NO.: TO 008					
ADDRESS: 9210 Sky Park Court						PROJECT CONTACT: Medora Hackler/Marie Bevier						CONTRACT NO.: N62473-16-D-2405					
CITY: San Diego, CA 92123						SAMPLER(S): (SIGNATURE) <i>Wey Ruck</i>						LAB USE ONLY ☐ ☐ - ☐ ☐ ☐ ☐					
TEL: 503.639.3400						E-Mail <i>medora.hackler@amecfw.com</i>						E-MAIL <i>marie.bevier@amecfw.com</i>					
TURNAROUND TIME ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS																	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____ / ____ / ____																	
SPECIAL INSTRUCTIONS ~~* 16-GW-16-MW19-20170712~~ ~~please verify low pH field reading using~~ ~~pH meter. please email correct reading.~~																	
LAB USE ONLY	SAMPLE ID	SAMPLING		Matrix	#Cont	QC Level	PFOA, PFOS, and PFBS (U.S. EPA 537 Mod.)										
		DATE	TIME														
	EB03	7/12/17	14:00	BW	2		X										
	5-GW-05-DGMW413-20170712		8:10	GW	2		X										
	18-GW-18-BGM03E-20170712		9:30		2	IV	X										
	24-GW-24-IN03-20170712		10:45		2		X										
	DUP02-20170712		10:50		2		X										
	24-GW-24-EX13A-20170712		11:40		2		X										
	24-GW-24-MW15D-20170712		12:40		2		X										
	16-GW-16-MW28-20170712		14:20		2	V	X										
	16-GW-16-MW19-20170712*	V	16:00	V	2		X										
Relinquished by: (Signature) <i>Wey Ruck</i>						Received by: (Signature) / Carrier Tracking Number FedEx						Date: 7/13/17		Time: 10:00			
Relinquished by: (Signature) <i>FedEx</i>						Received by: (Signature) <i>Beth Elmore</i>						Date: 07/14/17		Time: 0956			
Relinquished by: (Signature)						Received by: (Signature)						Date:		Time:			

[illegible]

Sample Log-in Checklist

Vista Work Order #: 1700871 TAT Std

Samples Arrival:	Date/Time 07/14/17 0933	Initials: BEB	Location: WR-2 Shelf/Rack: NA
Logged In:	Date/Time 07/14/17 1328	Initials: BEB	Location: WR-2 Shelf/Rack: A5
Delivered By:	☒ FedEx	☐ UPS	☐ On Trac
	☐ GSO	☐ DHL	☐ Hand Delivered
Other			
Preservation:	☒ Ice	☐ Blue Ice	☐ Dry Ice
None			
Temp °C: 0.4 (uncorrected)	Time: 1001	Thermometer ID: DT-3	
Temp °C: -0.3 (corrected)	Probe used: Yes ☒ No ☐		

		YES	NO	NA
Adequate Sample Volume Received? A, B		☒		
Holding Time Acceptable?		☒		
Shipping Container(s) Intact?		☒		
Shipping Custody Seals Intact?		☒		
Shipping Documentation Present?		☒		
Airbill	Trk # 808190794695	☒		
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: Sample label: "18-GW-18BGM03E"
COC ID for this sample "18-GW-18BGM03E-2070712"

EXTRACTION INFORMATION

Process Sheet
Workorder: 1700871

Prep Expiration: 2017-Jul-26
Client: KMEA

Workorder Due: 04-Aug-17 00:00

TAT: 21

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

Prep Batch: B760067

Prep Data Entered: HB 7/21/17
Date and Initials

Version: 537 (14 Analyte)

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700871-01	A ☒	~~EB03-20170712~~ EB03 14-Jul-17	14-Jul-17 09:33	WR-2 A-5	
1700871-02	A ☒	5-GW-05_DGMW41B-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-03	A ☒	18-GW-18BGM03E-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-04	A ☒	24-GW-24IN03-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-05	A ☒	DUP02-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-06	A ☒	24-GW-24EX13A-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-07	A ☒	24-GW-24MW15D-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-08	A ☒	16-GW-16_MW28-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-09	A ☒	16-GW-16_MW19-20170712	14-Jul-17 09:33	WR-2 A-5	
1700871-10	A ☒	EB04-20170713	14-Jul-17 09:33	WR-2 A-5	
1700871-11	A ☒	16-GW-16_MW04-20170713	14-Jul-17 09:33	WR-2 A-5	

Vista PM: Martha Maier

Vial Box ID: Save Us

Sample Reconciled By: HB 7/17/17

Batch: B7G0067

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1700855-01	0.27357 ✓	NA	NA	1000	20-Jul-17 07:41	BAP			QC Water	537M PFAS DOD (LOQ as
1700855-02	0.27423 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700855-03	0.27164 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700855-04	0.26865 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700855-05	0.2726 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700855-06	0.27278 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700855-07	0.26881 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700855-08	0.2612 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700855-09	0.25188 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-01	0.12146 ✓			1000	20-Jul-17 07:41	BAP			Blank Water	537M PFAS DOD (LOQ as
1700871-02	0.11547 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-03	0.11765 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-04	0.11741 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-05	0.11807 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-06	0.11851 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-07	0.1193 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-08	0.11899 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-09	0.11913 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
1700871-10	0.11646 ✓			1000	20-Jul-17 07:41	BAP			Blank Water	537M PFAS DOD (LOQ as
1700871-11	0.12043 ✓			1000	20-Jul-17 07:41	BAP			Groundwater	537M PFAS DOD (LOQ as
B7G0067-BLK1	0.125 ✓			1000	20-Jul-17 07:41	BAP				QC
B7G0067-BS1	0.125 ✓			1000	20-Jul-17 07:41	BAP				QC
B7G0067-MS1	0.27298 ✓			1000	20-Jul-17 07:41	BAP	17D2705 ✓	10 ✓		QC
B7G0067-MSD1	0.2776 ✓			1000	20-Jul-17 07:41	BAP	17D2705 ✓	10 ✓		QC

NB 7/21/17

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOO as mRL)

B7G0067

Chemist: BP
Prep Date/Time: 20 ~~17~~ Jul-17 07:41
BP 7-20-17

Prepared using: LCMS - SPE Extraction-LCMS

C	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
☐	B7G0067-BLK1	5	2	0	2	NA	NA	(0.150)	BP 7-20-17	BP 7-20-17	BP 7-20-17
☐	B7G0067-BS1	5	2	0	2	↓	↓	↓			
☐	B7G0067-MS1 (B) 1700855-03	5	2	0	5	299.71	26.73	0.27298			
☐	B7G0067-MSD1 (A) 1700855-03	5	2	0	5	304.01	26.41	0.27760			
☐	1700855-01	5	2	0	5	300.05	26.48	0.27357			
☐	1700855-02 (A)	5	2	0	5	300.88	26.65	0.27423			
☐	1700855-03 (A)	5.6	2	0	5	298.16	26.46	0.27164			
☐	1700855-04	6	2	0	5	295.36	26.71	0.26865			
☐	1700855-05 (A)	6	2	0	5	299.13	26.53	0.27260			
☐	1700855-06 (A)	6	2	0	5	299.29	26.51	0.27278			
☐	1700855-07 (A)	6	2	0	5	315.29	26.08	0.26881			
☐	1700855-08	5	2	0	5	287.86	26.66	0.26120			
☐	1700855-09 (A)	12	2	0	12	278.19	26.31	0.25188			
☐	1700871-01	5	2	0	3	148.47	26.73	0.12146			
☐	1700871-02	6	2	0	3	142.40	26.90	0.11547			
☐	1700871-03 (A)	5	2	0	3	144.62	26.97	0.11765			

IS Name <u>1761307, 10-1</u> (V6)	NS Name <u>1702705, 10-1</u> (V6)	RS Name <u>17F3038, 10-1</u> (2)	SPE Chem: <u>Strata X-AW 33µm 200µm</u> Ele SOLV: <u>0.5% NH4OH in MeOH/H2O</u> Final Volume(s) <u>1 mL</u>	Check Out: <u>HB 7/17/17</u> Chemist/Date: <u>HB 7/17/17</u> Check In: <u>HB 7/17/17</u> Chemist/Date: <u>HB 7/17/17</u> Balance ID: <u>HB HRMS-8</u> pH Adjusted: <u>HB 7/17/17</u> Chemist/Date: <u>HB 7/17/17</u>

Comments: Assume 1 g = 1 mL (A) sample was centrifuged to remove particulate 7/17/17

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOO as mRL)

B7G0067

Chemist: BP

Prep Date/Time: 22 Jul-17 07:41

Prepared using: LCMS - SPE Extraction-LCMS

C	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
☐	1700871-04 (A)	5	2	0	3	144.43	27.02	0.11741	BP 7/7/17	BP 7/20/17	BP 7/20/17
☐	1700871-05 (A)	5	2	0	3	145.19	27.12	0.11807	↓	↓	↓
☐	1700871-06 (A)	6	2	0	3	146.22	27.04	0.11851	↓	↓	↓
☐	1700871-07 (A)	6	2	0	3	146.22	26.92	0.11930	↓	↓	↓
☐	1700871-08	6	2	0	3	146.01	27.02	0.11899	↓	↓	↓
☐	1700871-09 (A)	5	2	0	3	146.13	27.00	0.11913	↓	↓	↓
☐	1700871-10	5	2	0	3	143.48	27.02	0.11646	↓	↓	↓
☐	1700871-11 (A)	6	2	0	3	147.41	26.98	0.12043	↓	↓	↓

IS Name <u>1761307, 104</u> (u6)	NS Name <u>1772705, 104</u> (u)	RS Name <u>17F3038, 104</u> (u2)	SPE Chem: <u>Start & AW 33µm 200µg</u> Ele SOLV: <u>0.5% NH₄OH in MeOH/H₂O</u> Final Volume(s) <u>1 uL</u>	Check Out: <u>HB 7/17/17</u> Chemist/Date: Check In: <u>HB 7/17/17</u> Chemist/Date: Balance ID: <u>HRM 1-8</u> pH Adjusted: Chemist/Date: <u>HB 7/17/17</u>

Comments: Assume 1 g = 1 mL (A) sample was centrifuged to remove particulate. HB 7/17/17

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\Q4.PRO\results\170727M1\170727M1-54.qld

Last Altered: Wednesday, August 02, 2017 15:08:19 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:53:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_54, Date: 27-Jul-2017, Time: 21:08:21, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299 > 79.7		2.53e3	0.2500		2.96				
2	4	PFHxA	313.2 > 268.9		8.40e3	0.2500		3.19				
3	5	PFHpA	363 > 318.9		2.02e4	0.2500		3.45				
4	6	PFHxS	398.9 > 79.6	3.44e0	1.83e3	0.2500		3.56	3.48	0.0235		
5	7	PFOA	413 > 368.7		2.67e4	0.2500		3.65				
6	9	PFNA	462.9 > 418.8		2.24e4	0.2500		3.83				
7	11	PFOS	499 > 79.9		4.46e3	0.2500		3.89				
8	12	PFDA	513 > 468.8		2.21e4	0.2500		4.01				
9	13	N-MeFOSAA	570.1 > 419		4.19e3	0.2500		4.03				
10	14	N-EtFOSAA	584.2 > 419		3.68e3	0.2500		4.10				
11	15	PFUnA	562.9 > 518.9		2.31e4	0.2500		4.11				
12	17	PFDoA	612.9 > 318.8		2.10e3	0.2500		4.34				
13	22	13C3-PFBS	302 > 98.8	2.53e3	2.85e4	0.2500	0.031	2.96	2.89	0.444	57.8	115.6
14	23	13C2-PFHxA	315 > 269.8	8.40e3	2.85e4	0.2500	0.275	3.19	3.14	1.47	21.4	107.1
15	24	13C4-PFHpA	367.2 > 321.8	2.02e4	2.85e4	0.2500	0.260	3.45	3.41	3.55	54.6	109.2
16	25	18O2-PFHxS	403 > 102.6	1.83e3	4.35e3	0.2500	0.402	3.56	3.47	5.26	52.4	104.7
17	26	13C2-PFOA	414.9 > 369.7	2.67e4	2.45e4	0.2500	1.042	3.65	3.61	13.7	52.4	104.8
18	27	13C5-PFNA	468.2 > 422.9	2.24e4	2.70e4	0.2500	0.792	3.83	3.79	10.4	52.3	104.6
19	29	13C8-PFOS	507 > 79.9	4.46e3	4.15e3	0.2500	0.951	3.89	3.84	13.5	56.6	113.2

Dataset: U:\Q4.PRO\results\170727M1\170727M1-54.qld

Last Altered: Wednesday, August 02, 2017 15:08:19 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:53:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_54, Date: 27-Jul-2017, Time: 21:08:21, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	30 13C2-PFDA	515.1 > 469.9	2.21e4	2.65e4	0.2500	0.869	4.01	3.95	10.4	48.0	95.9
2	31 d3-N-MeFOSAA	573.3 > 419	4.19e3	2.62e4	0.2500	0.013	4.03	3.98	2.00	619	95.2
3	32 d5-N-EtFOSAA	589.3 > 419	3.68e3	2.62e4	0.2500	0.013	4.12	4.05	1.76	553	85.0
4	33 13C2-PFUnA	565 > 519.8	2.31e4	2.62e4	0.2500	0.928	4.17	4.12	11.1	47.6	95.3
5	34 13C2-PFDoA	615 > 569.7	2.10e3	2.62e4	0.2500	0.071	4.34	4.28	1.00	56.5	112.9
6	37 13C5-PFHxA	318 > 272.9	2.85e4	2.85e4	0.2500	1.000	3.19	3.14	5.00	20.0	100.0
7	38 13C3-PFHxS	401.9 > 79.9	4.35e3	4.35e3	0.2500	1.000	3.56	3.48	12.5	50.0	100.0
8	39 13C8-PFOA	421.3 > 376	2.45e4	2.45e4	0.2500	1.000	3.65	3.60	12.5	50.0	100.0
9	40 13C9-PFNA	472.2 > 426.9	2.70e4	2.70e4	0.2500	1.000	3.83	3.79	12.5	50.0	100.0
10	41 13C4-PFOS	503 > 79.9	4.15e3	4.15e3	0.2500	1.000	3.89	3.84	12.5	50.0	100.0
11	42 13C6-PFDA	519.1 > 473.7	2.65e4	2.65e4	0.2500	1.000	4.01	3.95	12.5	50.0	100.0
12	43 13C7-PFUnA	570.1 > 524.8	2.62e4	2.62e4	0.2500	1.000	4.17	4.12	12.5	50.0	100.0
13	44 Total PFBS	299 > 79.7	0.00e0	2.53e3	0.2500		2.96		0.000		
14	45 Total PFHxS	398.9 > 79.6	3.44e0	1.83e3	0.2500		3.52		0.000		
15	46 Total PFOA	413 > 368.7	0.00e0	2.67e4	0.2500		3.65		0.000		
16	47 Total PFOS	499 > 79.9	0.00e0	4.46e3	0.2500		3.89		0.000		
17	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	4.19e3	0.2500		4.03		0.000		
18	49 Total N-EtFOSAA	584.2 > 419	0.00e0	3.68e3	0.2500		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-54.qld

Last Altered: Wednesday, August 02, 2017 15:08:19 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:53:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_54, Date: 27-Jul-2017, Time: 21:08:21, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.48	3.440	1833.019	0.023	MMI	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7			26725.291		MM-I	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9			4463.667		MM-I	

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			3676.699		MM-I	

Dataset: U:\Q4.PRO\results\170727M1\170727M1-54.qld

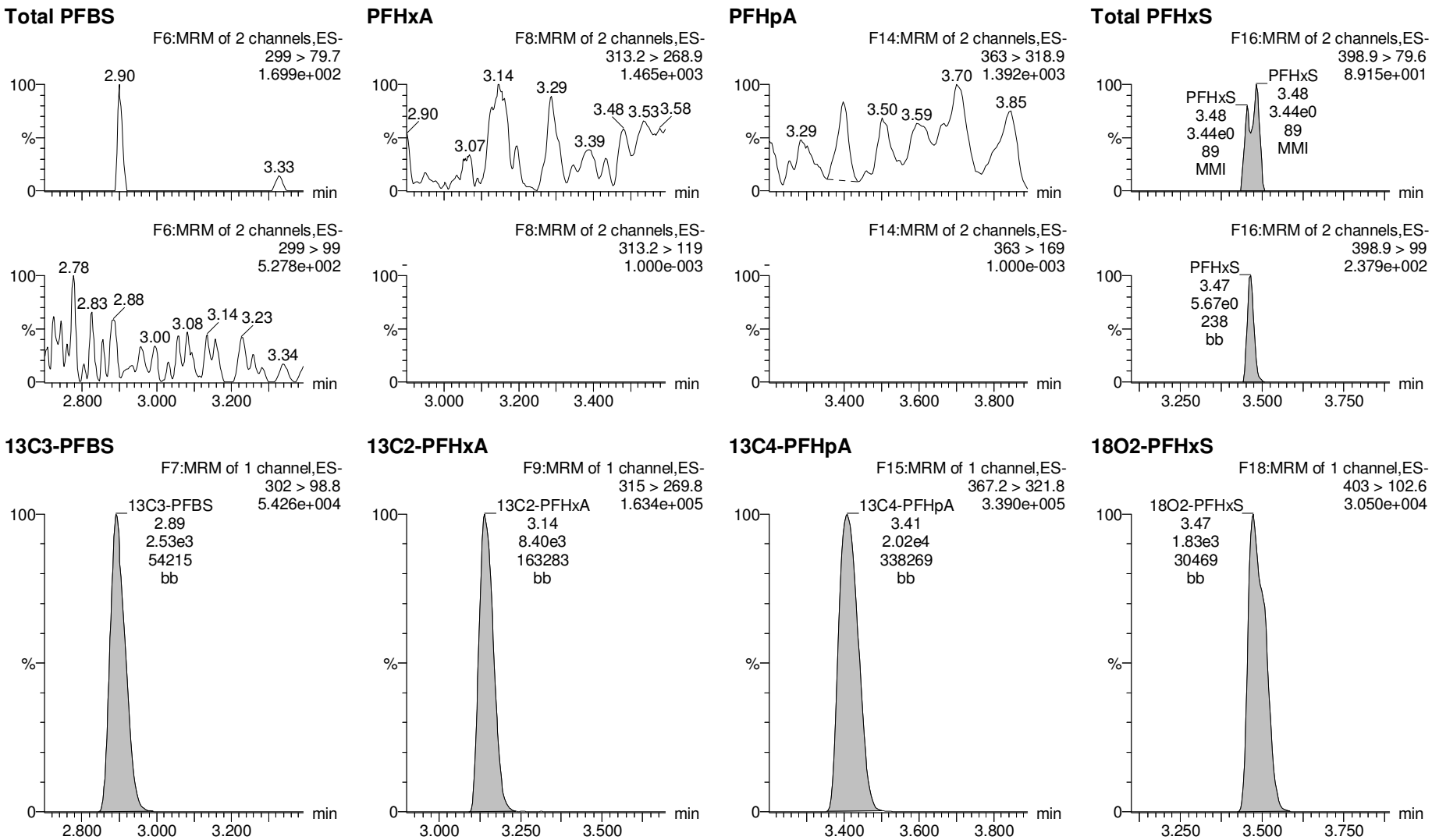
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Printed: Wednesday, August 02, 2017 16:53:29 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_54, Date: 27-Jul-2017, Time: 21:08:21, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank

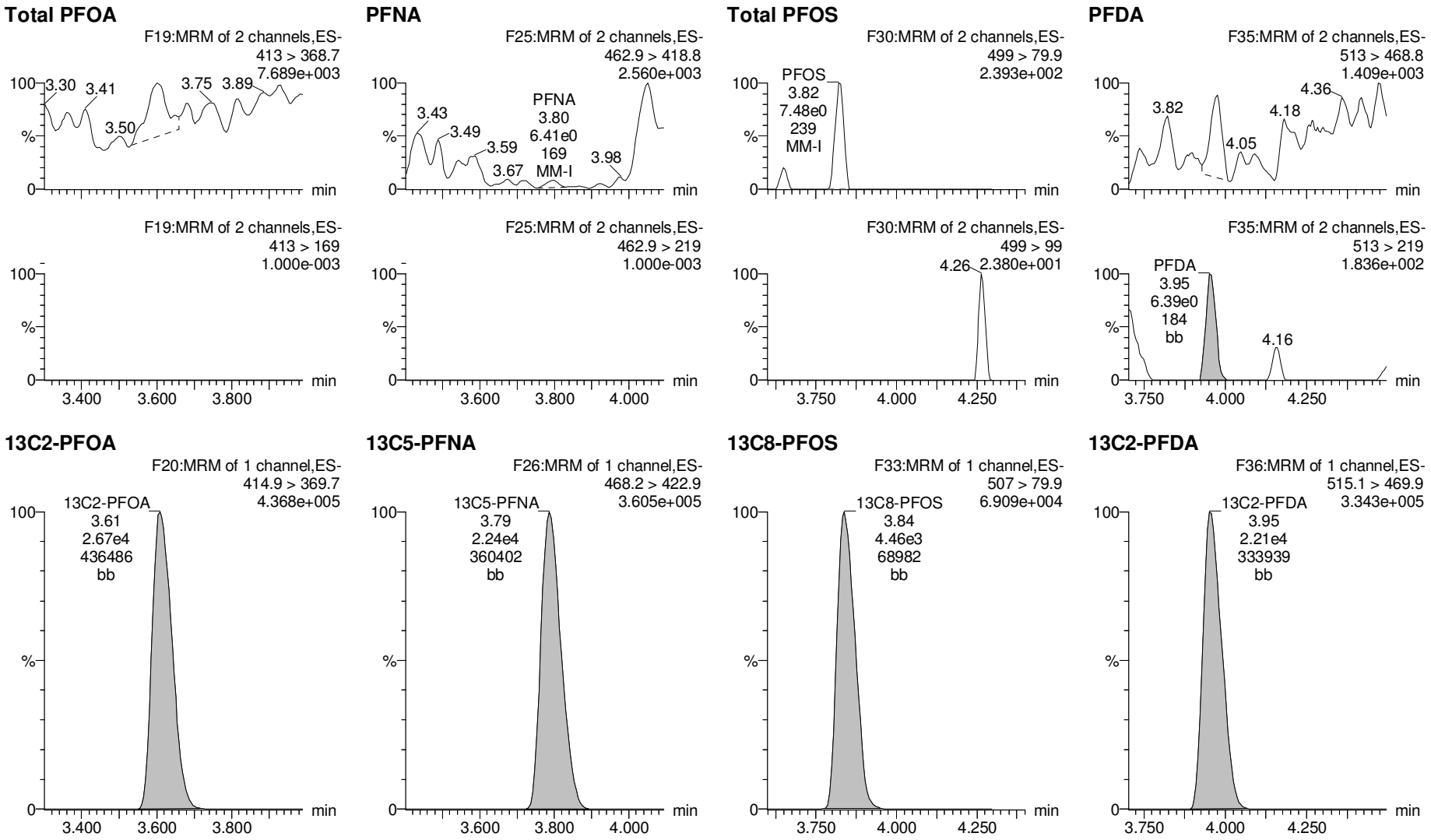


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Name: 170727M1_54, Date: 27-Jul-2017, Time: 21:08:21, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank

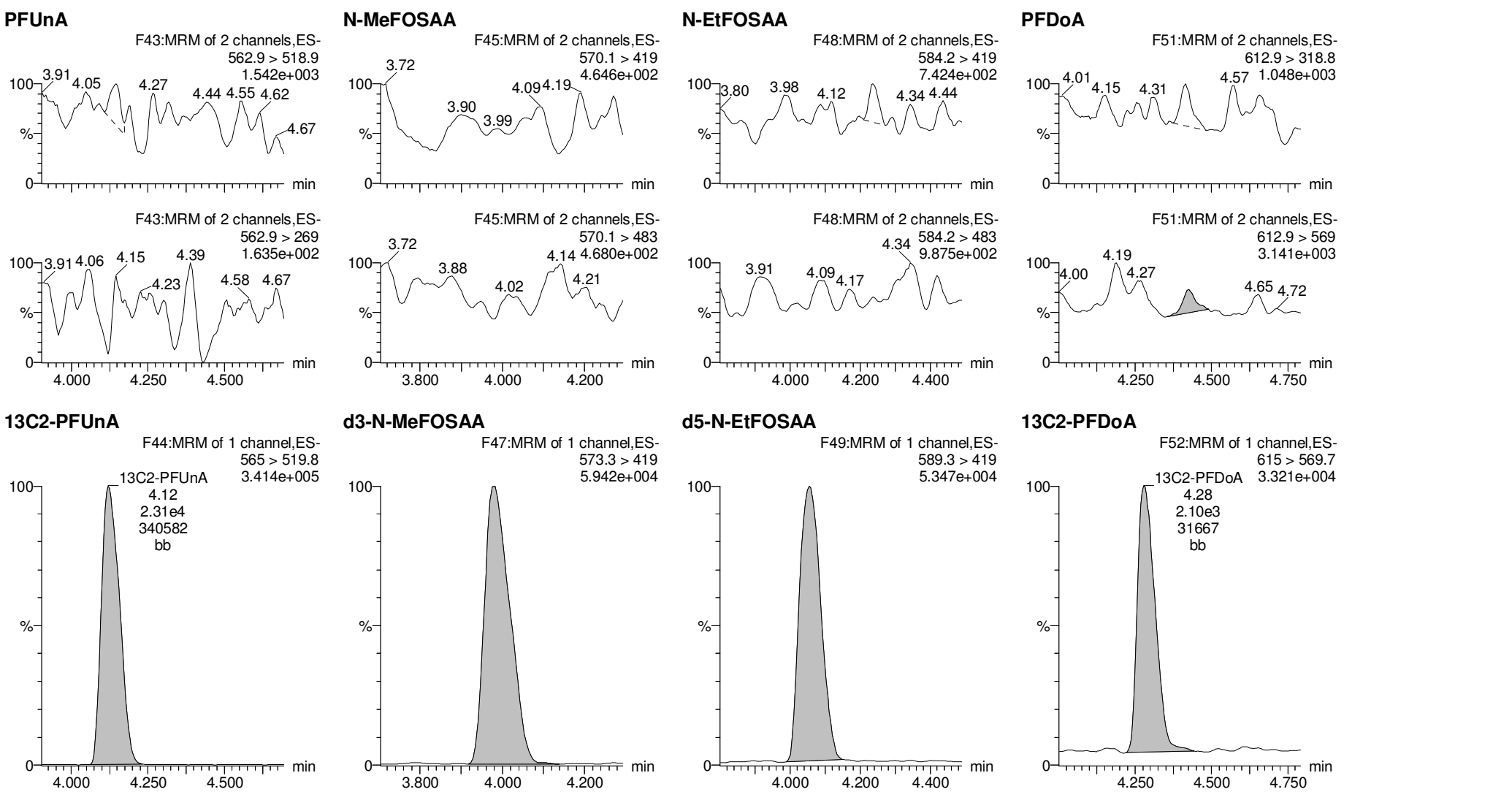


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Printed: Wednesday, August 02, 2017 16:53:29 Pacific Daylight Time

Name: 170727M1_54, Date: 27-Jul-2017, Time: 21:08:21, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank



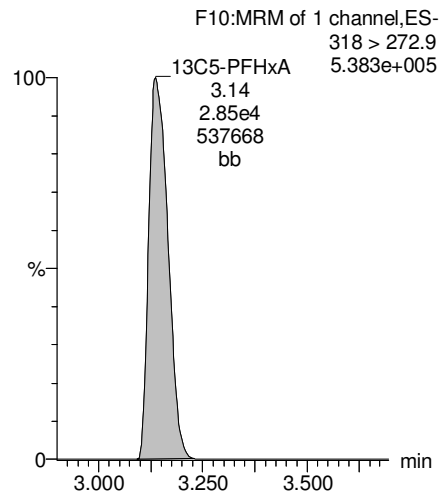
Dataset: U:\Q4.PRO\results\170727M1\170727M1-54.qld

Last Altered: Wednesday, August 02, 2017 15:08:19 Pacific Daylight Time

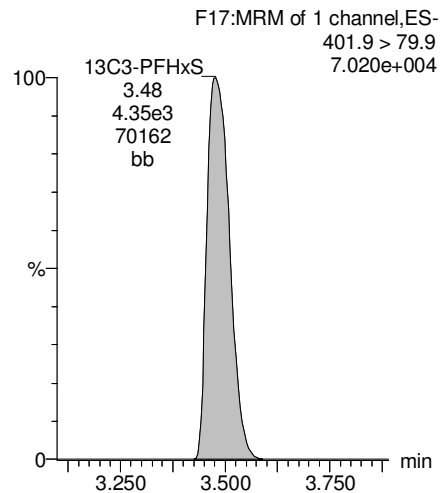
Printed: Wednesday, August 02, 2017 16:53:29 Pacific Daylight Time

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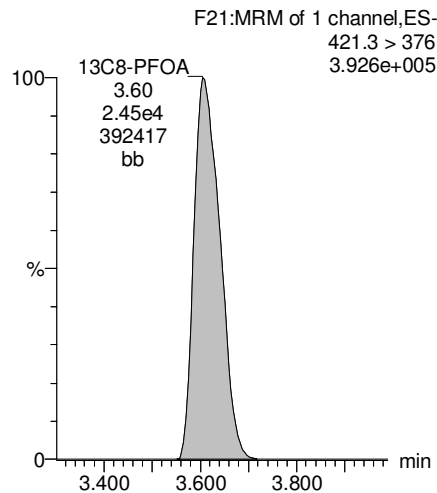
13C5-PFHxA



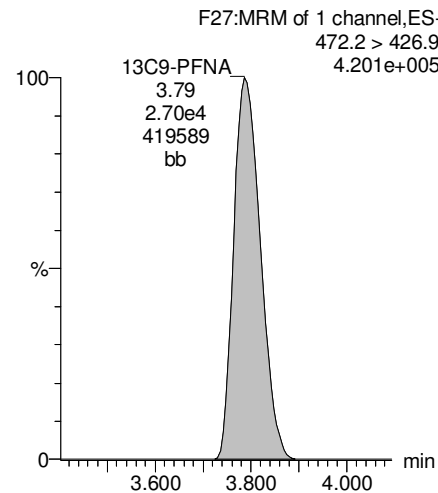
13C3-PFHxS



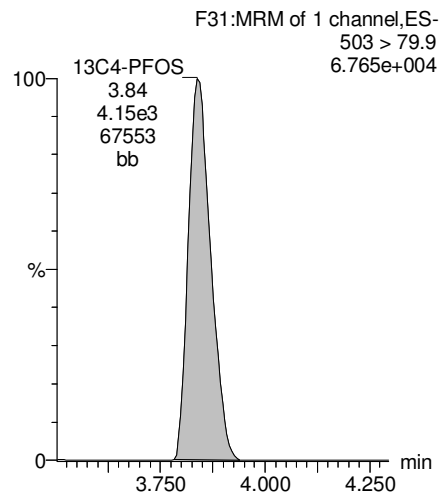
13C8-PFOA



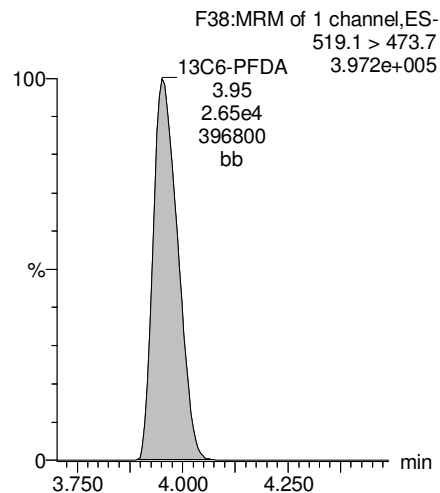
13C9-PFNA



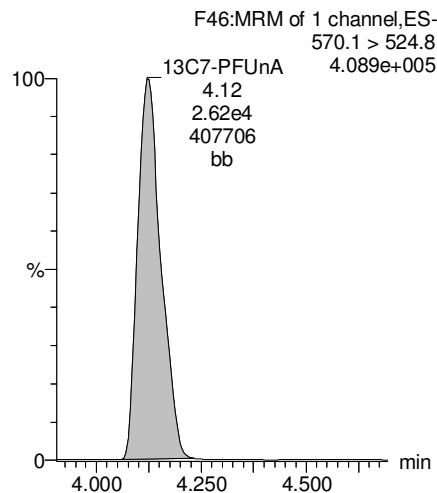
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-6.qld

Last Altered: Wednesday, August 02, 2017 08:41:59 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 08:42:19 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_6, **Date:** 31-Jul-2017, **Time:** 12:52:41, **ID:** B7G0067-BLK1 **Method** Blank 0.125, **Description:** Method Blank

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.71e3	0.2500		4.50				
2	19 PFTeDA	712.9 > 668.8		1.01e4	0.2500		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	1.01e4	2.29e4	0.2500	0.762	4.68	4.64	5.52	29.0	57.9
4	43 13C7-PFUnA	570.1 > 524.8	2.29e4	2.29e4	0.2500	1.000	4.17	4.13	12.5	50.0	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-6.qld

Last Altered: Wednesday, August 02, 2017 08:41:59 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 08:42:19 Pacific Daylight Time

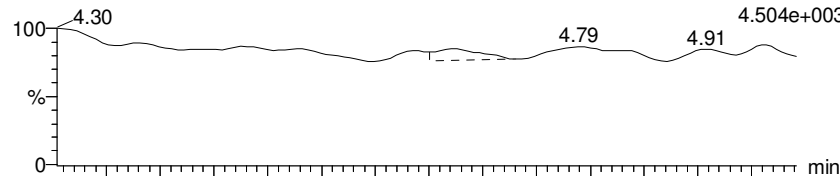
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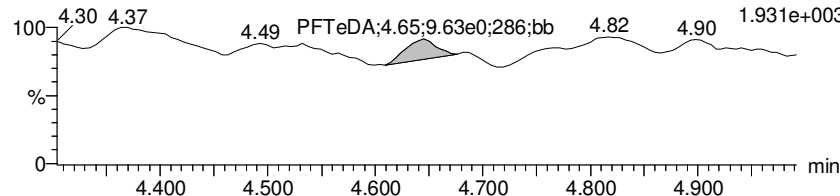
Name: 170731M1_6, Date: 31-Jul-2017, Time: 12:52:41, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank

PFTeDA

170731M1_6 Smooth(Mn,1x2) F58:MRM of 4 channels,ES-
Method Blank B7G0067-BLK1 Method Blank 0.125 712.9 > 668.8
4.504e+003

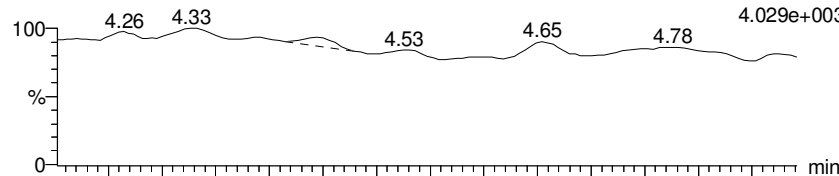


170731M1_6 Smooth(Mn,1x2) F58:MRM of 4 channels,ES-
Method Blank B7G0067-BLK1 Method Blank 0.125 712.9 > 369
1.931e+003

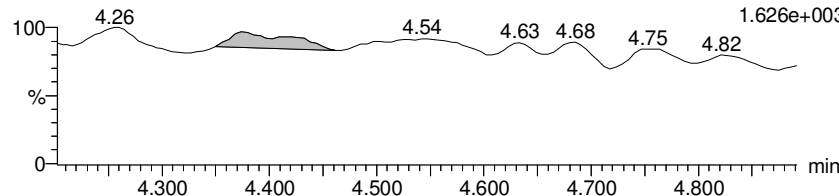


PFTrDA

170731M1_6 Smooth(Mn,1x2) F57:MRM of 2 channels,ES-
Method Blank B7G0067-BLK1 Method Blank 0.125 662.9 > 618.9
4.029e+003

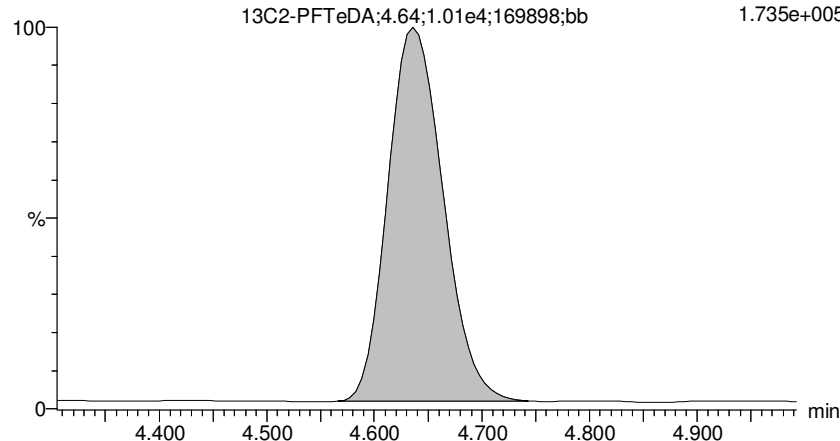


170731M1_6 Smooth(Mn,1x2) F57:MRM of 2 channels,ES-
Method Blank B7G0067-BLK1 Method Blank 0.125 662.9 > 319
1.626e+003



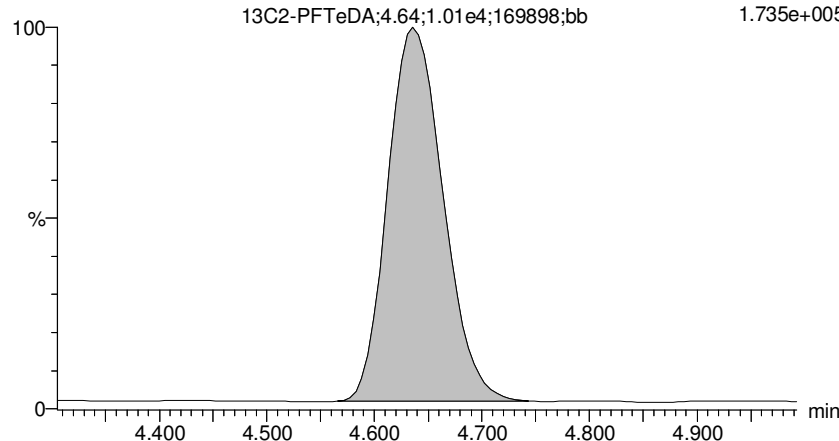
13C2-PFTeDA

170731M1_6 Smooth(Mn,1x2) F59:MRM of 2 channels,ES-
Method Blank B7G0067-BLK1 Method Blank 0.125 714.8 > 669.6
1.735e+005



13C2-PFTeDA

170731M1_6 Smooth(Mn,1x2) F59:MRM of 2 channels,ES-
Method Blank B7G0067-BLK1 Method Blank 0.125 714.8 > 669.6
1.735e+005



Dataset: U:\Q4.PRO\results\170731M1\170731M1-6.qld

Last Altered: Wednesday, August 02, 2017 08:41:59 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 08:42:19 Pacific Daylight Time

Name: 170731M1_6, Date: 31-Jul-2017, Time: 12:52:41, ID: B7G0067-BLK1 Method Blank 0.125, Description: Method Blank

13C7-PFUnA

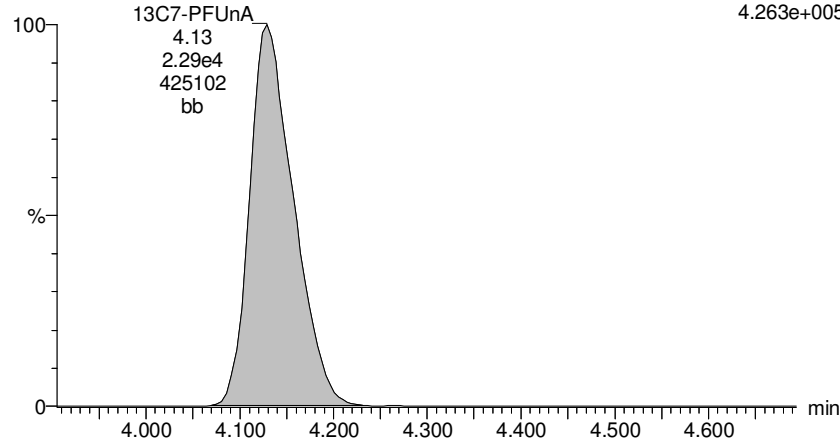
170731M1_6 Smooth(Mn,1x2)

Method Blank B7G0067-BLK1 Method Blank 0.125

F46:MRM of 1 channel,ES-

570.1 > 524.8

4.263e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-56.qld

Last Altered: Wednesday, August 02, 2017 15:10:40 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:11:43 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_56, Date: 27-Jul-2017, Time: 21:29:46, ID: B7G0067-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	3.68e3	2.62e3	0.2500		2.96	2.90	17.6	37.1	92.8
2	4 PFHxA	313.2 > 268.9	2.60e4	9.49e3	0.2500		3.19	3.15	13.7	37.3	93.3
3	5 PFHpA	363 > 318.9	2.00e4	2.10e4	0.2500		3.45	3.41	11.9	38.3	95.8
4	6 PFHxS	398.9 > 79.6	2.55e3	1.96e3	0.2500		3.56	3.48	16.3	39.0	97.5
5	7 PFOA	413 > 368.7	2.24e4	2.71e4	0.2500		3.65	3.61	10.4	41.6	104.0
6	9 PFNA	462.9 > 418.8	1.98e4	2.37e4	0.2500		3.83	3.79	10.4	38.7	96.7
7	11 PFOS	499 > 79.9	3.73e3	4.62e3	0.2500		3.89	3.83	10.1	37.6	93.9
8	12 PFDA	513 > 468.8	2.25e4	2.21e4	0.2500		4.01	3.96	12.7	40.7	101.8
9	13 N-MeFOSAA	570.1 > 419	4.72e3	3.83e3	0.2500		4.03	3.98	201	40.2	100.5
10	14 N-EtFOSAA	584.2 > 419	3.50e3	3.81e3	0.2500		4.10	4.05	150	38.9	97.2
11	15 PFUnA	562.9 > 518.9	1.17e4	2.17e4	0.2500		4.11	4.12	6.78	41.8	104.5
12	17 PFDoA	612.9 > 318.8	1.32e3	1.98e3	0.2500		4.34	4.28	8.36	35.7	89.4
13	22 13C3-PFBS	302 > 98.8	2.62e3	2.89e4	0.2500	0.031	2.96	2.89	0.453	59.0	118.0
14	23 13C2-PFHxA	315 > 269.8	9.49e3	2.89e4	0.2500	0.275	3.19	3.14	1.64	23.9	119.3
15	24 13C4-PFHpA	367.2 > 321.8	2.10e4	2.89e4	0.2500	0.260	3.45	3.41	3.62	55.7	111.5
16	25 18O2-PFHxS	403 > 102.6	1.96e3	4.21e3	0.2500	0.402	3.56	3.48	5.83	58.0	116.1
17	26 13C2-PFOA	414.9 > 369.7	2.71e4	2.33e4	0.2500	1.042	3.65	3.61	14.5	55.9	111.7
18	27 13C5-PFNA	468.2 > 422.9	2.37e4	2.85e4	0.2500	0.792	3.83	3.79	10.4	52.5	105.1
19	29 13C8-PFOS	507 > 79.9	4.62e3	3.82e3	0.2500	0.951	3.89	3.84	15.1	63.6	127.3

Dataset: U:\Q4.PRO\results\170727M1\170727M1-56.qld

Last Altered: Wednesday, August 02, 2017 15:10:40 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:11:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_56, Date: 27-Jul-2017, Time: 21:29:46, ID: B7G0067-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	30 13C2-PFDA	515.1 > 469.9	2.21e4	2.90e4	0.2500	0.869	4.01	3.96	9.54	43.9	87.8
2	31 d3-N-MeFOSAA	573.3 > 419	3.83e3	2.79e4	0.2500	0.013	4.03	3.98	1.71	529	81.4
3	32 d5-N-EtFOSAA	589.3 > 419	3.81e3	2.79e4	0.2500	0.013	4.12	4.05	1.70	536	82.5
4	33 13C2-PFUnA	565 > 519.8	2.17e4	2.79e4	0.2500	0.928	4.17	4.12	9.69	41.8	83.5
5	34 13C2-PFDoA	615 > 569.7	1.98e3	2.79e4	0.2500	0.071	4.34	4.28	0.885	49.8	99.6
6	37 13C5-PFHxA	318 > 272.9	2.89e4	2.89e4	0.2500	1.000	3.19	3.14	5.00	20.0	100.0
7	38 13C3-PFHxS	401.9 > 79.9	4.21e3	4.21e3	0.2500	1.000	3.56	3.48	12.5	50.0	100.0
8	39 13C8-PFOA	421.3 > 376	2.33e4	2.33e4	0.2500	1.000	3.65	3.61	12.5	50.0	100.0
9	40 13C9-PFNA	472.2 > 426.9	2.85e4	2.85e4	0.2500	1.000	3.83	3.79	12.5	50.0	100.0
10	41 13C4-PFOS	503 > 79.9	3.82e3	3.82e3	0.2500	1.000	3.89	3.84	12.5	50.0	100.0
11	42 13C6-PFDA	519.1 > 473.7	2.90e4	2.90e4	0.2500	1.000	4.01	3.96	12.5	50.0	100.0
12	43 13C7-PFUnA	570.1 > 524.8	2.79e4	2.79e4	0.2500	1.000	4.17	4.12	12.5	50.0	100.0
13	44 Total PFBS	299 > 79.7	3.68e3	2.62e3	0.2500		2.96		17.6	37.1	
14	45 Total PFHxS	398.9 > 79.6	2.55e3	1.96e3	0.2500		3.52		16.3	39.0	
15	46 Total PFOA	413 > 368.7	2.24e4	2.71e4	0.2500		3.65		10.4	41.6	
16	47 Total PFOS	499 > 79.9	3.73e3	4.62e3	0.2500		3.89		10.1	37.6	
17	48 Total N-Me-FOSAA	570.1 > 419	4.72e3	3.83e3	0.2500		4.03		201	40.2	
18	49 Total N-EtFOSAA	584.2 > 419	3.50e3	3.81e3	0.2500		4.17		150	38.9	

Dataset: U:\Q4.PRO\results\170727M1\170727M1-56.qld

Last Altered: Wednesday, August 02, 2017 15:10:40 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:11:43 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_56, Date: 27-Jul-2017, Time: 21:29:46, ID: B7G0067-BS1 OPR 0.125, Description: OPR

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	3681.017	2620.366	17.560	bb	37.1

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.48	2553.789	1963.147	16.261	bb	39.0

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.61	22427.049	27079.486	10.352	bb	41.6

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.83	3727.117	4617.682	10.089	bb	37.6

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419	3.98	4724.901	3828.989	200.522	bb	40.2

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419	4.05	3504.236	3806.759	149.586	bb	38.9

Dataset: U:\Q4.PRO\results\170727M1\170727M1-56.qld

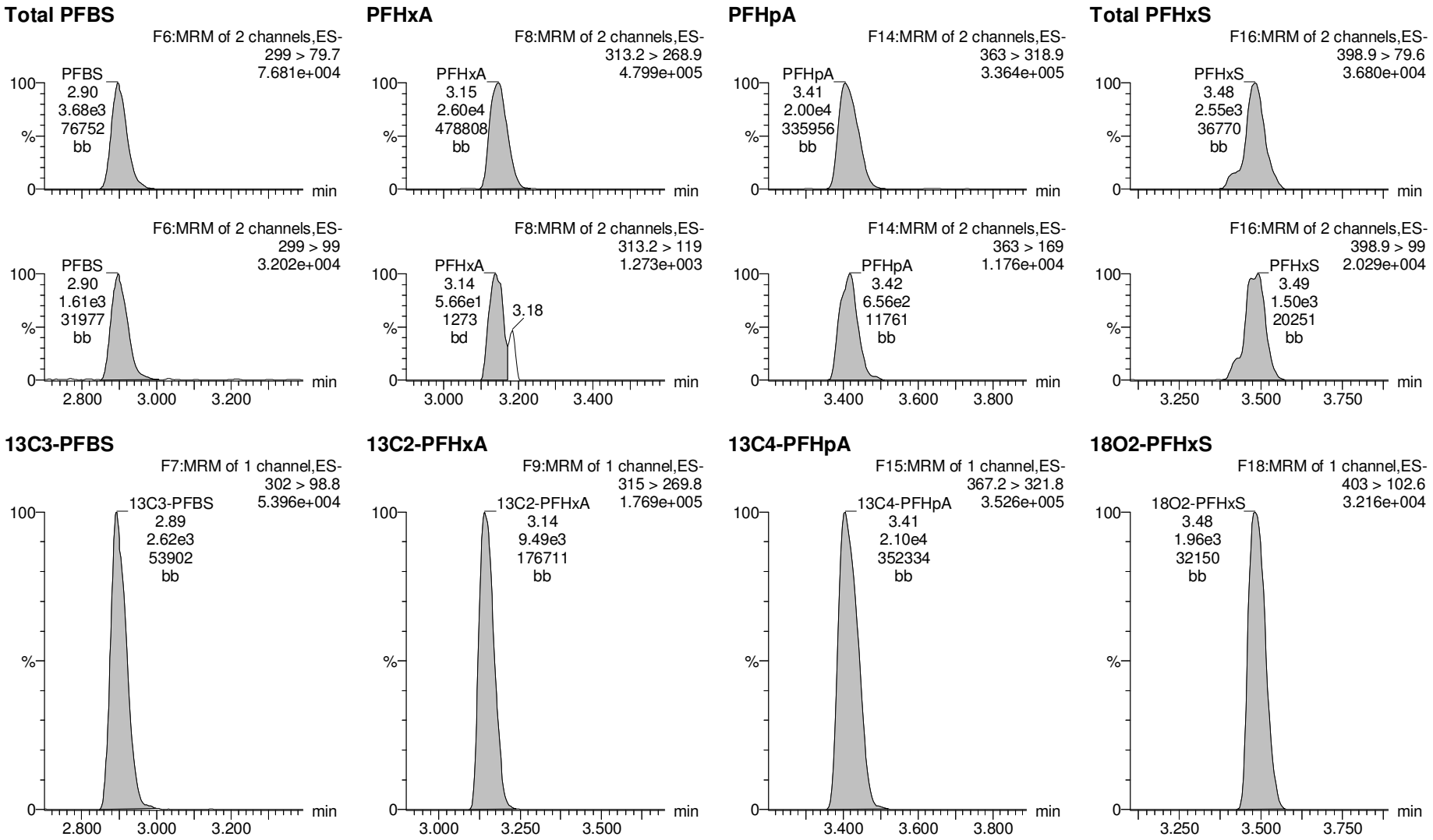
Last Altered: Wednesday, August 02, 2017 15:10:40 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:11:43 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_56, Date: 27-Jul-2017, Time: 21:29:46, ID: B7G0067-BS1 OPR 0.125, Description: OPR

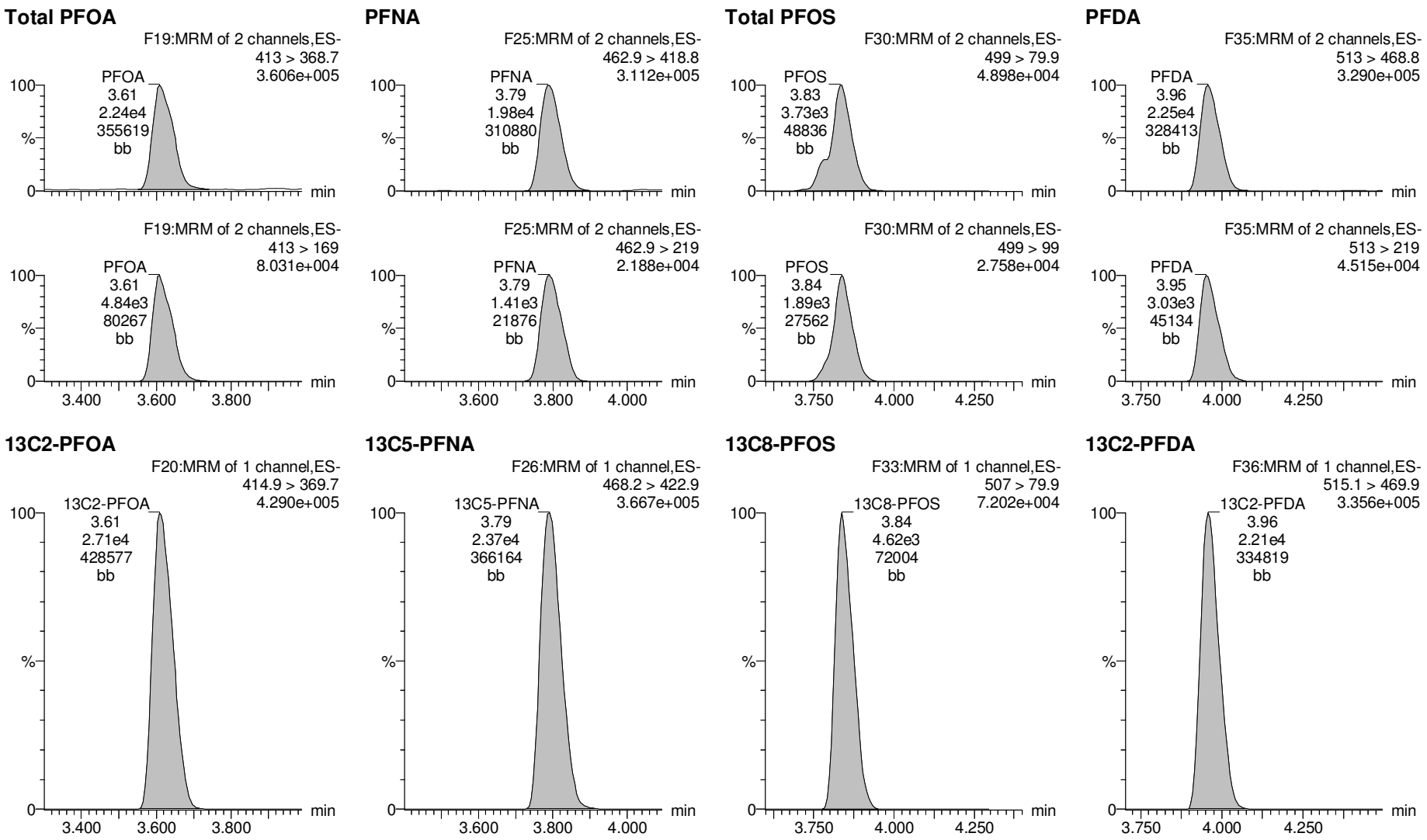


Dataset: U:\Q4.PRO\results\170727M1\170727M1-56.qld

Last Altered: Wednesday, August 02, 2017 15:10:40 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:11:43 Pacific Daylight Time

Name: 170727M1_56, Date: 27-Jul-2017, Time: 21:29:46, ID: B7G0067-BS1 OPR 0.125, Description: OPR

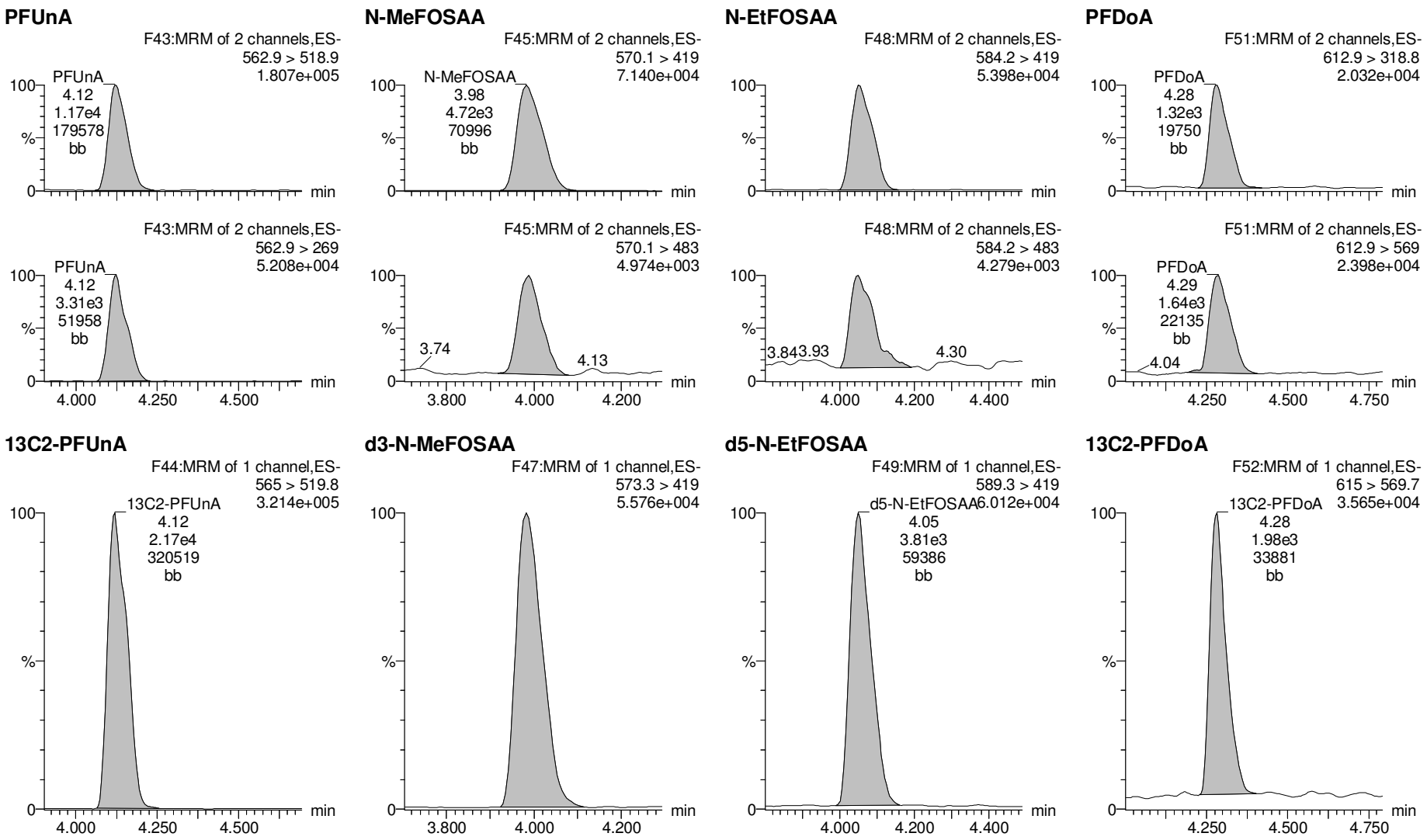


Dataset: U:\Q4.PRO\results\170727M1\170727M1-56.qld

Last Altered: Wednesday, August 02, 2017 15:10:40 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:11:43 Pacific Daylight Time

Name: 170727M1_56, Date: 27-Jul-2017, Time: 21:29:46, ID: B7G0067-BS1 OPR 0.125, Description: OPR



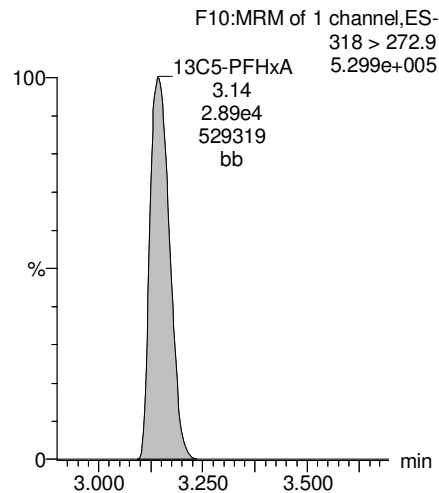
Dataset: U:\Q4.PRO\results\170727M1\170727M1-56.qld

Last Altered: Wednesday, August 02, 2017 15:10:40 Pacific Daylight Time

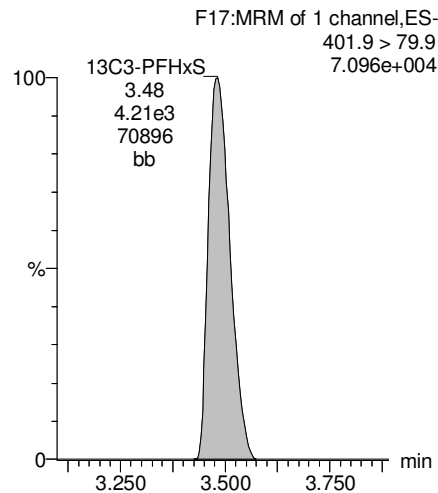
Printed: Wednesday, August 02, 2017 15:11:43 Pacific Daylight Time

Name: 170727M1_56, Date: 27-Jul-2017, Time: 21:29:46, ID: B7G0067-BS1 OPR 0.125, Description: OPR

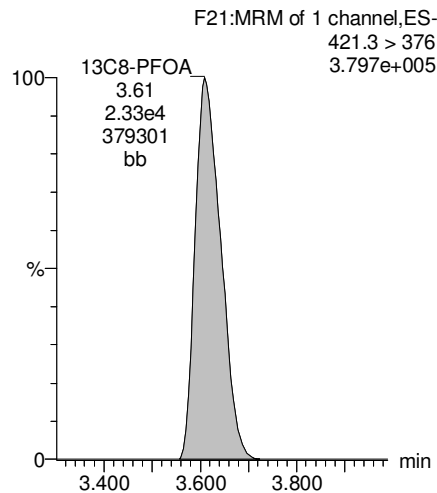
13C5-PFHxA



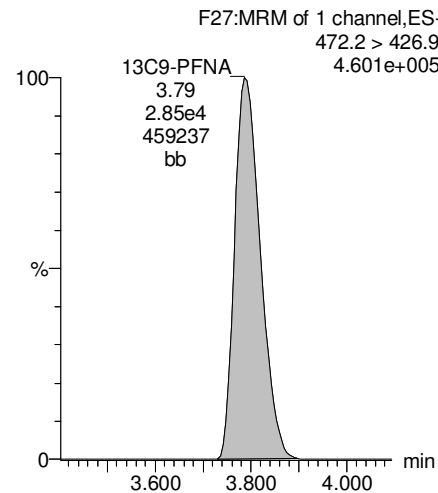
13C3-PFHxS



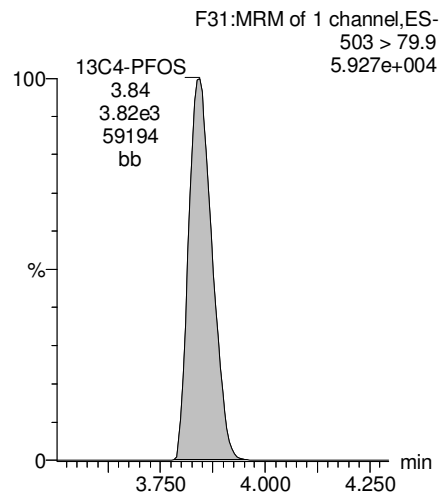
13C8-PFOA



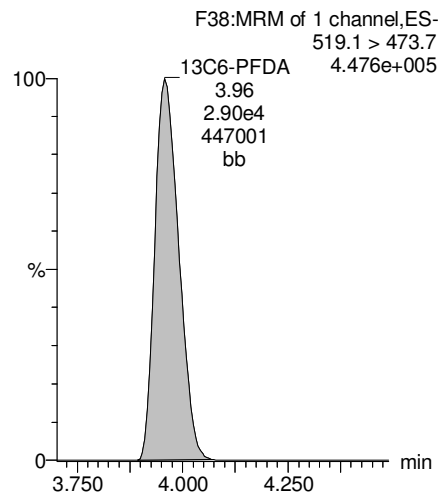
13C9-PFNA



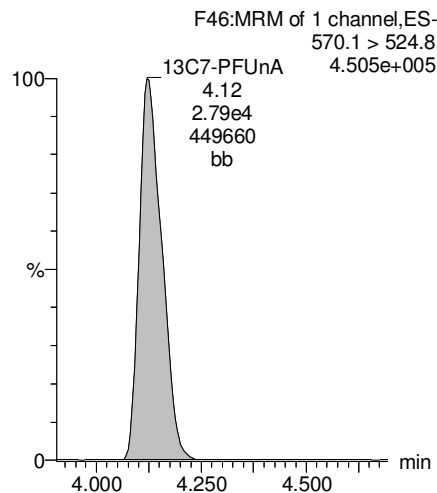
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-4.qld

Last Altered: Wednesday, August 02, 2017 08:35:37 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 08:37:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_4, Date: 31-Jul-2017, Time: 12:31:16, ID: B7G0067-BS1 OPR 0.125, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9	1.39e4	1.91e3	0.2500		4.50	4.46	91.0	36.9	92.1
2	19 PFTeDA	712.9 > 668.8	9.25e3	1.07e4	0.2500		4.68	4.64	10.8	41.3	103.1
3	35 13C2-PFTeDA	714.8 > 669.6	1.07e4	2.33e4	0.2500	0.762	4.68	4.64	5.73	30.1	60.2
4	43 13C7-PFUnA	570.1 > 524.8	2.33e4	2.33e4	0.2500	1.000	4.17	4.13	12.5	50.0	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-4.qld

Last Altered: Wednesday, August 02, 2017 08:35:37 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 08:37:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

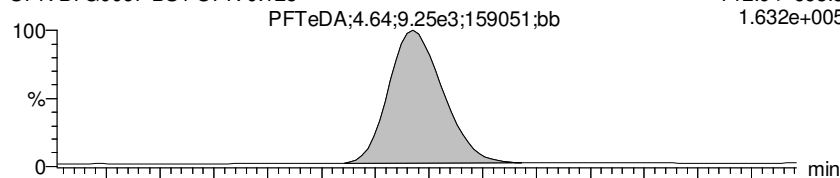
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_4, Date: 31-Jul-2017, Time: 12:31:16, ID: B7G0067-BS1 OPR 0.125, Description: OPR

PFTeDA

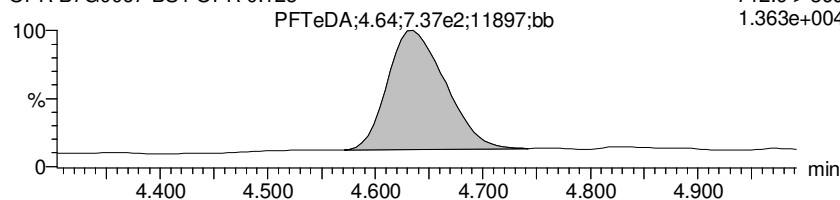
170731M1_4 Smooth(Mn,1x2)
OPR B7G0067-BS1 OPR 0.125

F58:MRM of 4 channels,ES-
712.9 > 668.8
1.632e+005



170731M1_4 Smooth(Mn,1x2)
OPR B7G0067-BS1 OPR 0.125

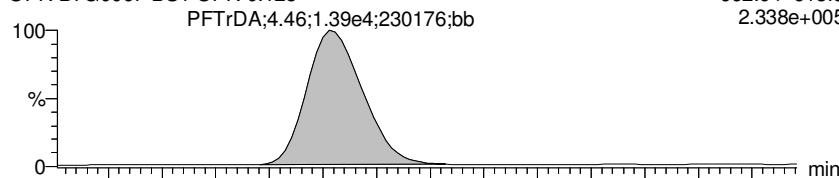
F58:MRM of 4 channels,ES-
712.9 > 369
1.363e+004



PFTrDA

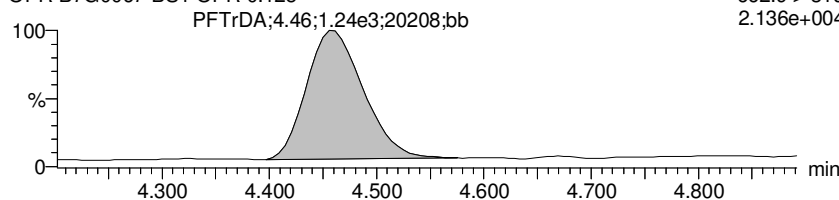
170731M1_4 Smooth(Mn,1x2)
OPR B7G0067-BS1 OPR 0.125

F57:MRM of 2 channels,ES-
662.9 > 618.9
2.338e+005



170731M1_4 Smooth(Mn,1x2)
OPR B7G0067-BS1 OPR 0.125

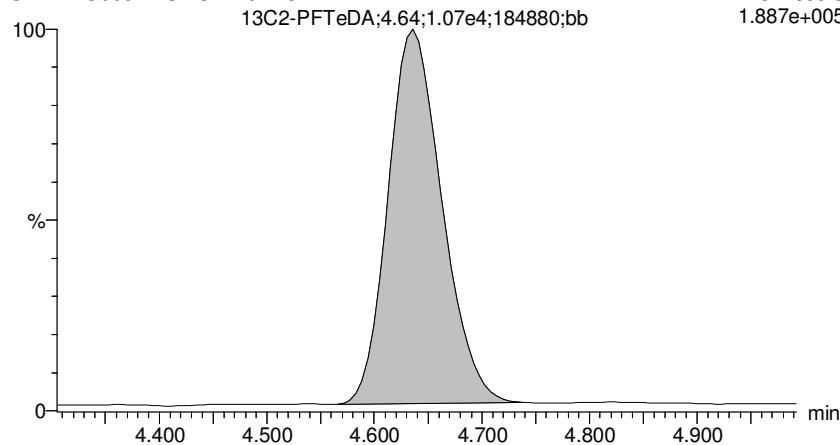
F57:MRM of 2 channels,ES-
662.9 > 319
2.136e+004



13C2-PFTeDA

170731M1_4 Smooth(Mn,1x2)
OPR B7G0067-BS1 OPR 0.125

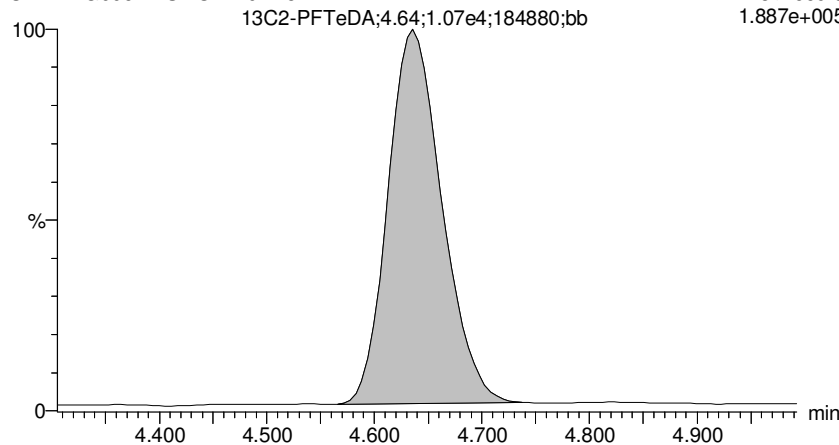
F59:MRM of 2 channels,ES-
714.8 > 669.6
1.887e+005



13C2-PFTeDA

170731M1_4 Smooth(Mn,1x2)
OPR B7G0067-BS1 OPR 0.125

F59:MRM of 2 channels,ES-
714.8 > 669.6
1.887e+005



Dataset: U:\Q4.PRO\results\170731M1\170731M1-4.qld

Last Altered: Wednesday, August 02, 2017 08:35:37 Pacific Daylight Time

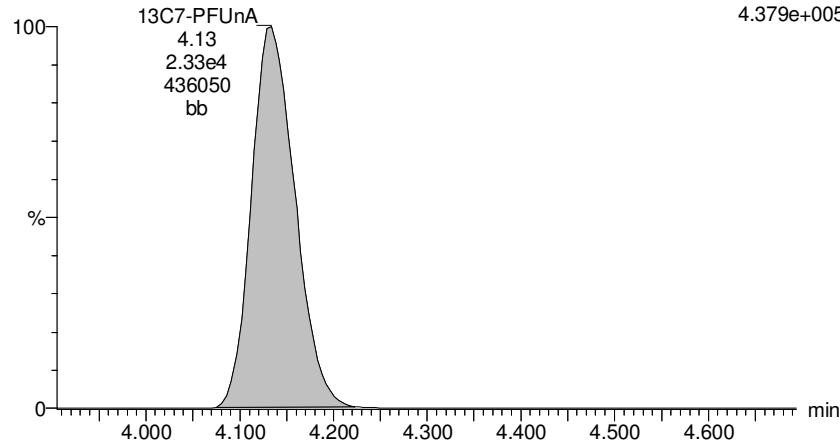
Printed: Wednesday, August 02, 2017 08:37:59 Pacific Daylight Time

Name: 170731M1_4, Date: 31-Jul-2017, Time: 12:31:16, ID: B7G0067-BS1 OPR 0.125, Description: OPR

13C7-PFUnA

170731M1_4 Smooth(Mn,1x2)
OPR B7G0067-BS1 OPR 0.125

F46:MRM of 1 channel,ES-
570.1 > 524.8
4.379e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-71.qld

Last Altered: Wednesday, August 02, 2017 15:03:24 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:03:41 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_71, Date: 28-Jul-2017, Time: 00:11:55, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7		2.99e3	0.1215		2.96				
2	4 PFHxA	313.2 > 268.9		1.06e4	0.1215		3.19				
3	5 PFHpA	363 > 318.9		2.36e4	0.1215		3.45				
4	6 PFHxS	398.9 > 79.6	6.31e-1	2.10e3	0.1215		3.56	3.49	0.00375		
5	7 PFOA	413 > 368.7		3.10e4	0.1215		3.65				
6	9 PFNA	462.9 > 418.8		2.32e4	0.1215		3.83				
7	11 PFOS	499 > 79.9		5.39e3	0.1215		3.89				
8	12 PFDA	513 > 468.8		2.57e4	0.1215		4.01				
9	13 N-MeFOSAA	570.1 > 419		4.81e3	0.1215		4.03				
10	14 N-EtFOSAA	584.2 > 419		4.85e3	0.1215		4.10				
11	15 PFUnA	562.9 > 518.9		2.49e4	0.1215		4.11				
12	17 PFDoA	612.9 > 318.8		2.12e3	0.1215		4.34				
13	22 13C3-PFBS	302 > 98.8	2.99e3	3.27e4	0.1215	0.031	2.96	2.90	0.457	123	119.2
14	23 13C2-PFHxA	315 > 269.8	1.06e4	3.27e4	0.1215	0.275	3.19	3.14	1.62	48.5	117.7
15	24 13C4-PFHpA	367.2 > 321.8	2.36e4	3.27e4	0.1215	0.260	3.45	3.42	3.62	115	111.3
16	25 18O2-PFHxS	403 > 102.6	2.10e3	4.74e3	0.1215	0.402	3.56	3.48	5.55	114	110.3
17	26 13C2-PFOA	414.9 > 369.7	3.10e4	2.45e4	0.1215	1.042	3.65	3.61	15.8	125	121.5
18	27 13C5-PFNA	468.2 > 422.9	2.32e4	3.06e4	0.1215	0.792	3.83	3.79	9.49	98.6	95.8
19	29 13C8-PFOS	507 > 79.9	5.39e3	4.81e3	0.1215	0.951	3.89	3.84	14.0	121	117.9

Dataset: U:\Q4.PRO\results\170727M1\170727M1-71.qld

Last Altered: Wednesday, August 02, 2017 15:03:24 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:03:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_71, Date: 28-Jul-2017, Time: 00:11:55, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	30 13C2-PFDA	515.1 > 469.9	2.57e4	2.92e4	0.1215	0.869	4.01	3.96	11.0	104	101.1
2	31 d3-N-MeFOSAA	573.3 > 419	4.81e3	2.98e4	0.1215	0.013	4.03	3.98	2.02	1280	95.8
3	32 d5-N-EtFOSAA	589.3 > 419	4.85e3	2.98e4	0.1215	0.013	4.12	4.05	2.03	1320	98.4
4	33 13C2-PFUnA	565 > 519.8	2.49e4	2.98e4	0.1215	0.928	4.17	4.12	10.4	92.7	90.1
5	34 13C2-PFDoA	615 > 569.7	2.12e3	2.98e4	0.1215	0.071	4.34	4.28	0.886	103	99.7
6	37 13C5-PFHxA	318 > 272.9	3.27e4	3.27e4	0.1215	1.000	3.19	3.14	5.00	41.2	100.0
7	38 13C3-PFHxS	401.9 > 79.9	4.74e3	4.74e3	0.1215	1.000	3.56	3.49	12.5	103	100.0
8	39 13C8-PFOA	421.3 > 376	2.45e4	2.45e4	0.1215	1.000	3.65	3.61	12.5	103	100.0
9	40 13C9-PFNA	472.2 > 426.9	3.06e4	3.06e4	0.1215	1.000	3.83	3.79	12.5	103	100.0
10	41 13C4-PFOS	503 > 79.9	4.81e3	4.81e3	0.1215	1.000	3.89	3.84	12.5	103	100.0
11	42 13C6-PFDA	519.1 > 473.7	2.92e4	2.92e4	0.1215	1.000	4.01	3.96	12.5	103	100.0
12	43 13C7-PFUnA	570.1 > 524.8	2.98e4	2.98e4	0.1215	1.000	4.17	4.12	12.5	103	100.0
13	44 Total PFBS	299 > 79.7	0.00e0	2.99e3	0.1215		2.96		0.000		
14	45 Total PFHxS	398.9 > 79.6	6.31e-1	2.10e3	0.1215		3.52		0.000		
15	46 Total PFOA	413 > 368.7	0.00e0	3.10e4	0.1215		3.65		0.000		
16	47 Total PFOS	499 > 79.9	0.00e0	5.39e3	0.1215		3.89		0.000		
17	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	4.81e3	0.1215		4.03		0.000		
18	49 Total N-EtFOSAA	584.2 > 419	0.00e0	4.85e3	0.1215		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-71.qld

Last Altered: Wednesday, August 02, 2017 15:03:24 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:03:41 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_71, Date: 28-Jul-2017, Time: 00:11:55, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.49	0.631	2101.359	0.004	MMI	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7			31037.689		MM-I	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419			4809.757		MM-I	

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			4851.850		MM-I	

Dataset: U:\Q4.PRO\results\170727M1\170727M1-71.qld

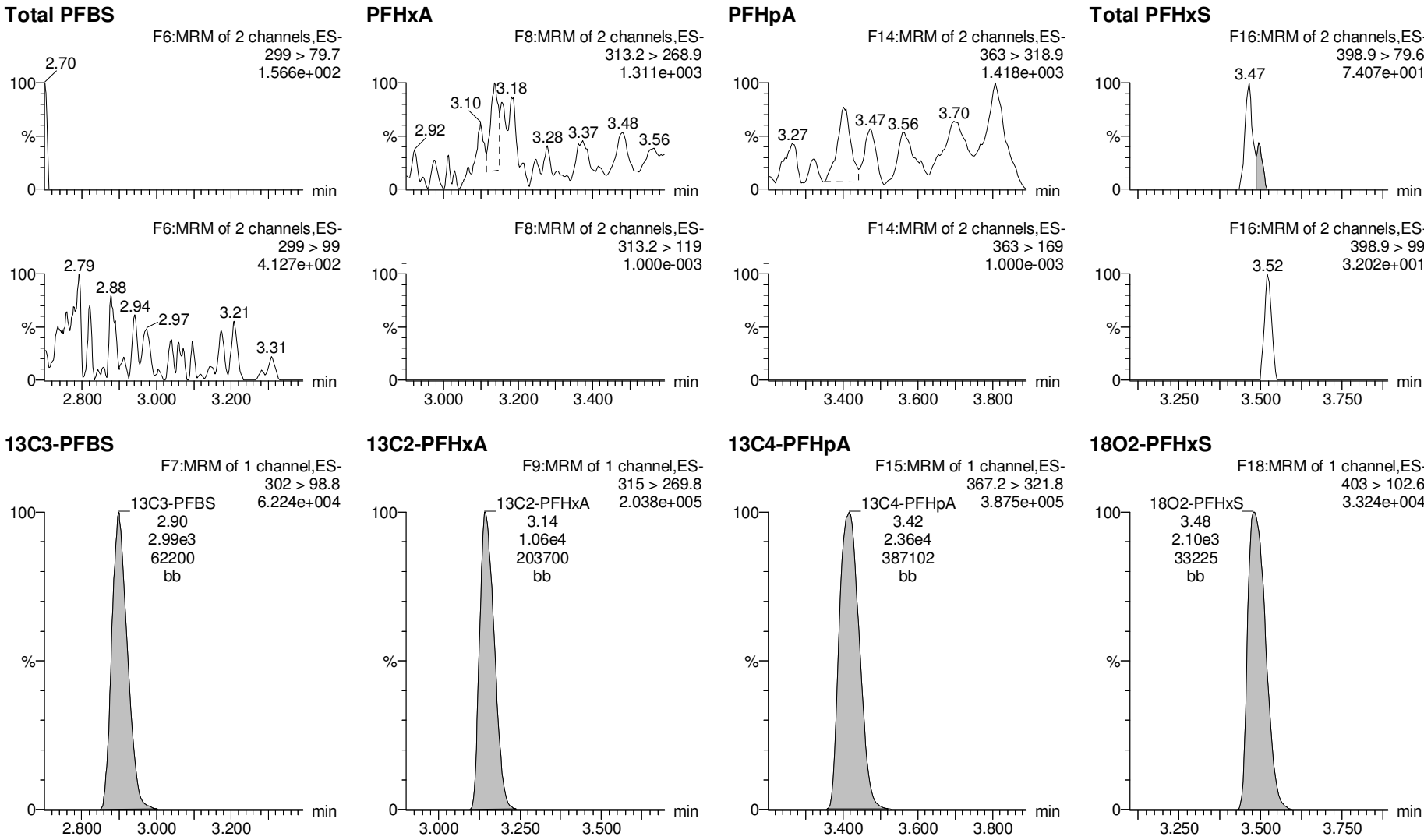
Last Altered: Wednesday, August 02, 2017 15:03:24 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:03:41 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_71, Date: 28-Jul-2017, Time: 00:11:55, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712



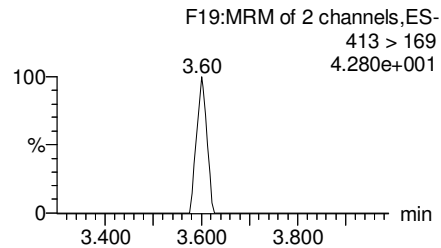
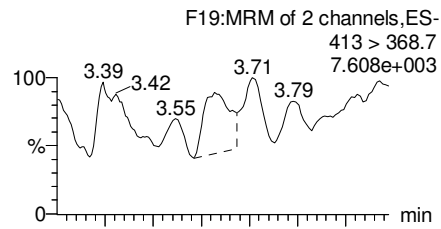
Dataset: U:\Q4.PRO\results\170727M1\170727M1-71.qld

Last Altered: Wednesday, August 02, 2017 15:03:24 Pacific Daylight Time

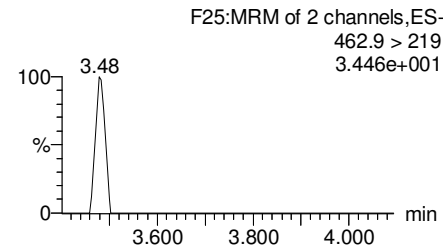
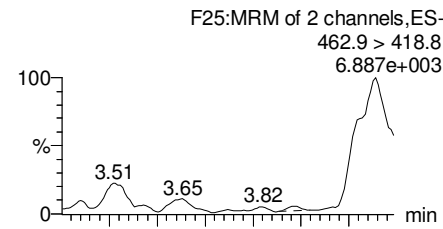
Printed: Wednesday, August 02, 2017 15:03:41 Pacific Daylight Time

Name: 170727M1_71, Date: 28-Jul-2017, Time: 00:11:55, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712

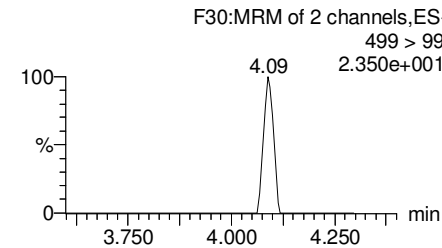
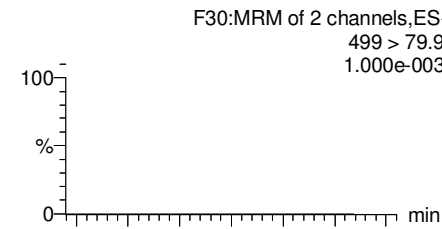
Total PFOA



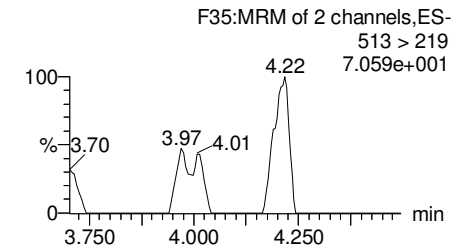
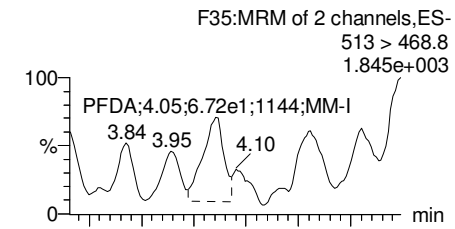
PFNA



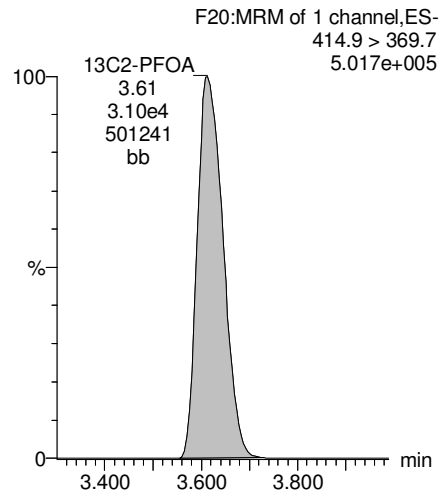
Total PFOS



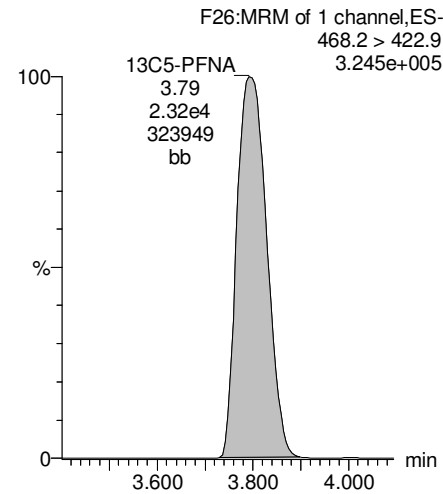
PFDA



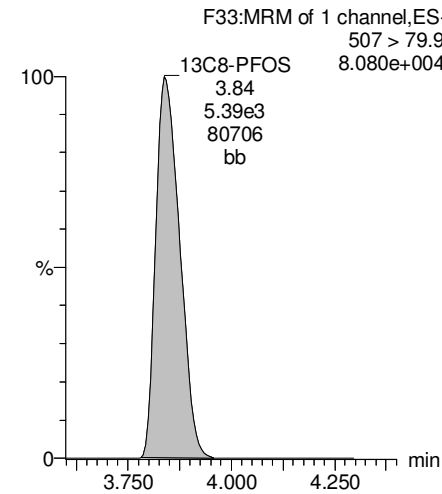
13C2-PFOA



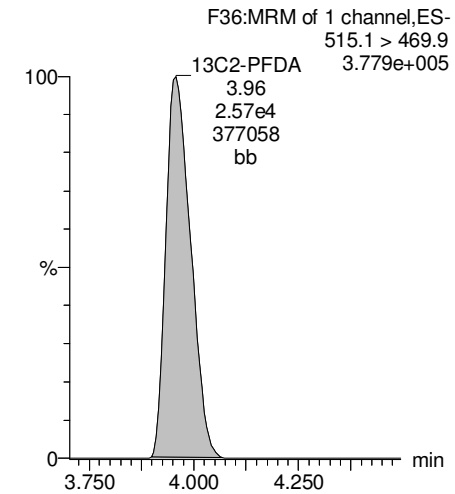
13C5-PFNA



13C8-PFOS



13C2-PFDA

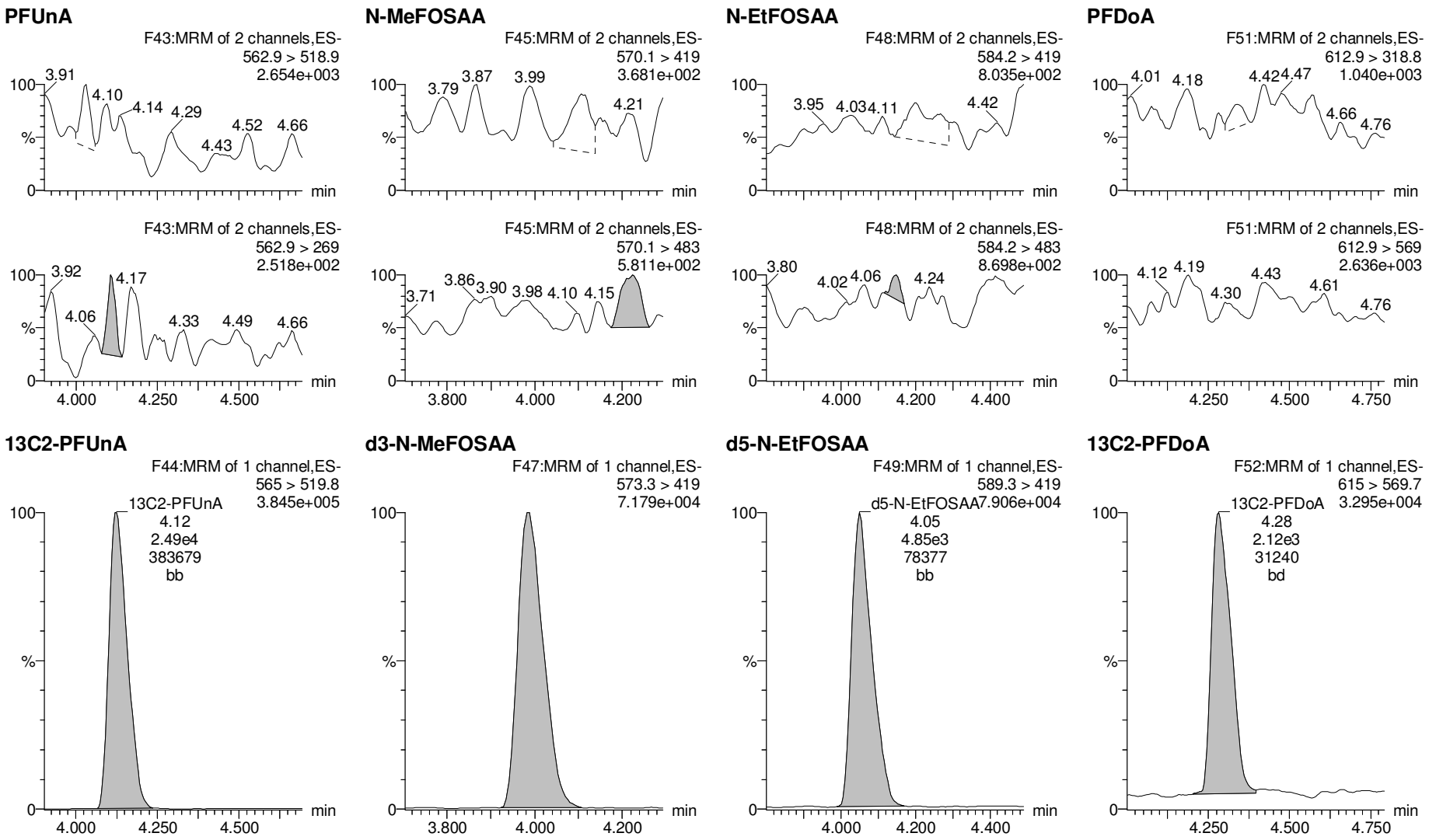


Dataset: U:\Q4.PRO\results\170727M1\170727M1-71.qld

Last Altered: Wednesday, August 02, 2017 15:03:24 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:03:41 Pacific Daylight Time

Name: 170727M1_71, Date: 28-Jul-2017, Time: 00:11:55, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712



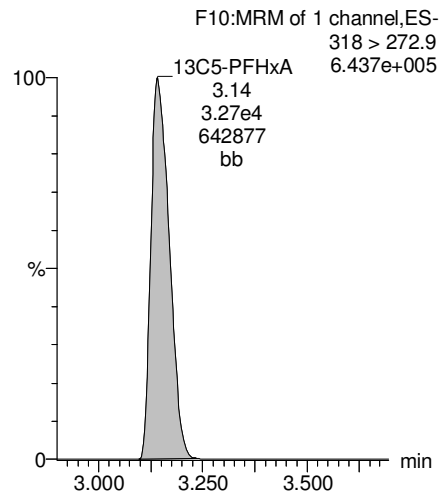
Dataset: U:\Q4.PRO\results\170727M1\170727M1-71.qld

Last Altered: Wednesday, August 02, 2017 15:03:24 Pacific Daylight Time

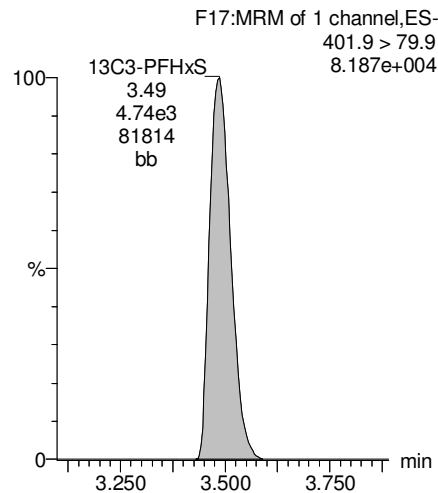
Printed: Wednesday, August 02, 2017 15:03:41 Pacific Daylight Time

Name: 170727M1_71, Date: 28-Jul-2017, Time: 00:11:55, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712

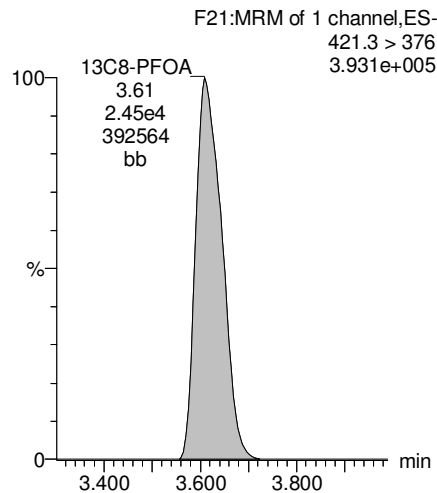
13C5-PFHxA



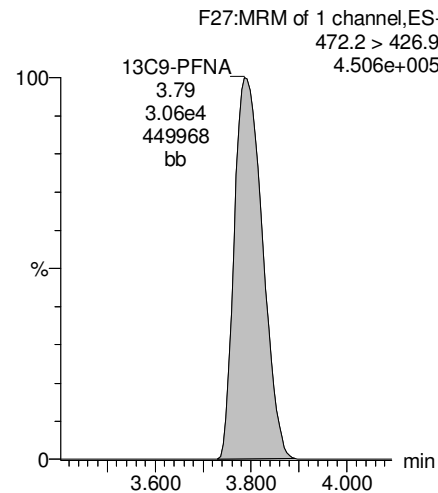
13C3-PFHxS



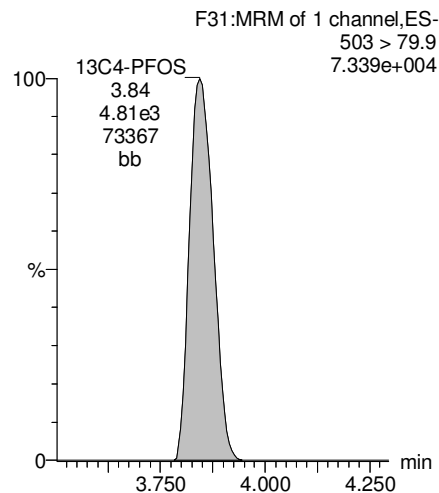
13C8-PFOA



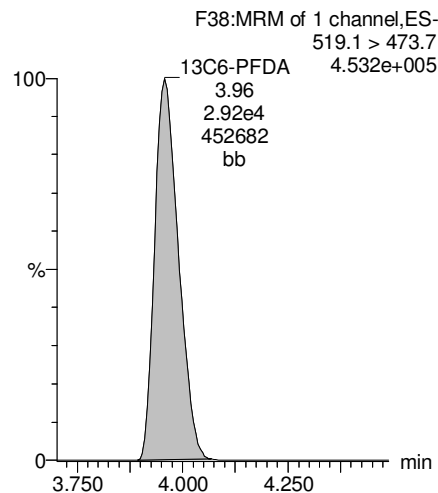
13C9-PFNA



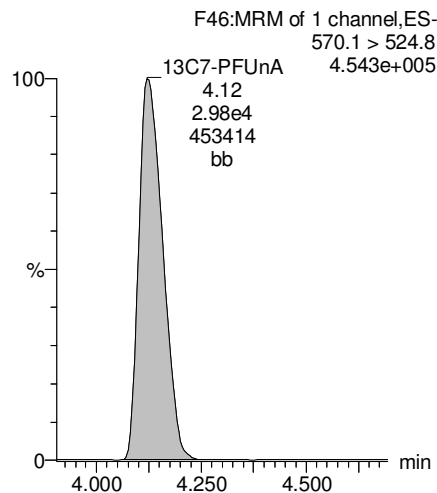
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-22.qld

Last Altered: Wednesday, August 02, 2017 16:05:52 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:08:54 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_22, **Date:** 31-Jul-2017, **Time:** 16:04:30, **ID:** 1700871-01 EB03-20170712 0.12146, **Description:** EB03-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.65e3	0.1215		4.50				
2	19 PFTeDA	712.9 > 668.8		1.25e4	0.1215		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	1.25e4	2.30e4	0.1215	0.762	4.68	4.65	6.77	73.1	71.0
4	43 13C7-PFUnA	570.1 > 524.8	2.30e4	2.30e4	0.1215	1.000	4.17	4.14	12.5	103	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-22.qld

Last Altered: Wednesday, August 02, 2017 16:05:52 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:08:54 Pacific Daylight Time

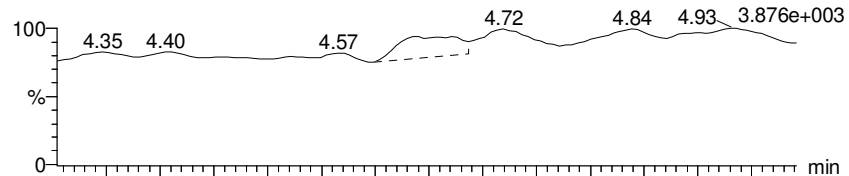
Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

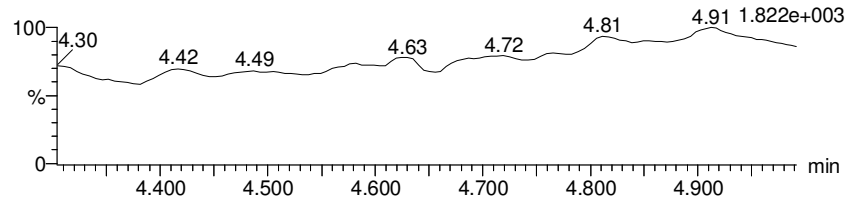
Name: 170731M1_22, Date: 31-Jul-2017, Time: 16:04:30, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712

PFTeDA

170731M1_22 Smooth(Mn,1x2) F58:MRM of 4 channels,ES-
EB03-20170712 1700871-01 EB03-20170712 0.12146 712.9 > 668.8

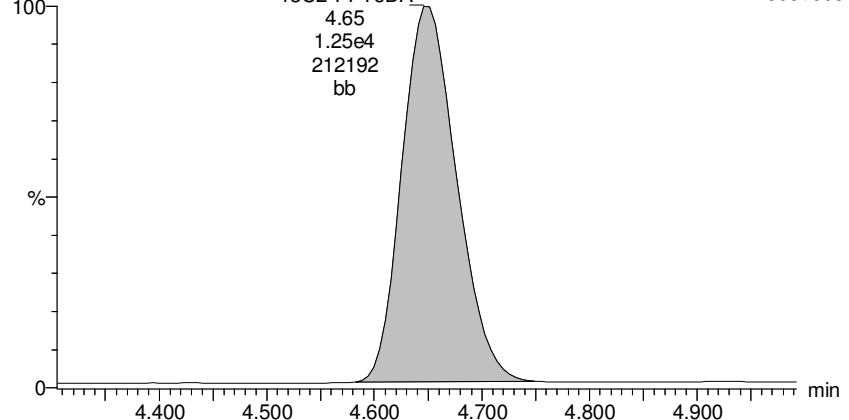


170731M1_22 Smooth(Mn,1x2) F58:MRM of 4 channels,ES-
EB03-20170712 1700871-01 EB03-20170712 0.12146 712.9 > 369



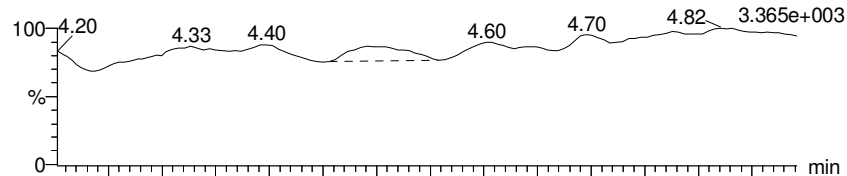
13C2-PFTeDA

170731M1_22 Smooth(Mn,1x2) F59:MRM of 2 channels,ES-
EB03-20170712 1700871-01 EB03-20170712 0.12146 714.8 > 669.6
13C2-PFTeDA 2.159e+005

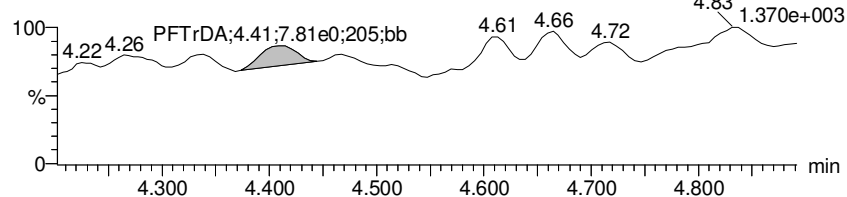


PFTrDA

170731M1_22 Smooth(Mn,1x2) F57:MRM of 2 channels,ES-
EB03-20170712 1700871-01 EB03-20170712 0.12146 662.9 > 618.9

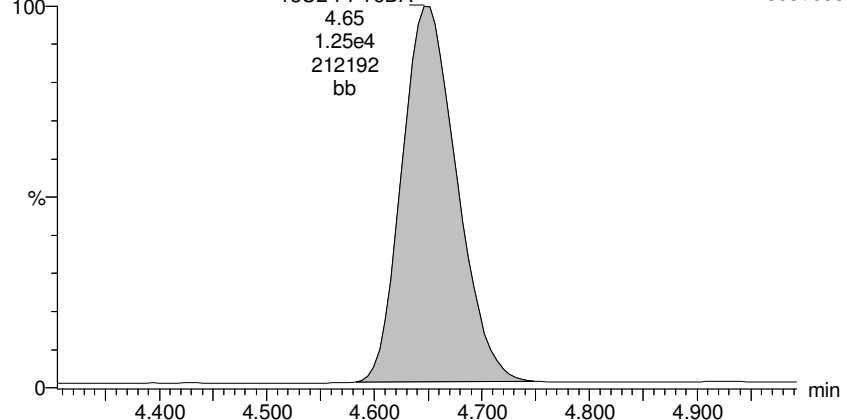


170731M1_22 Smooth(Mn,1x2) F57:MRM of 2 channels,ES-
EB03-20170712 1700871-01 EB03-20170712 0.12146 662.9 > 319



13C2-PFTeDA

170731M1_22 Smooth(Mn,1x2) F59:MRM of 2 channels,ES-
EB03-20170712 1700871-01 EB03-20170712 0.12146 714.8 > 669.6
13C2-PFTeDA 2.159e+005



Reviewed: WJL 8/4/2017

GM 8/2/17

Work Order 1700871

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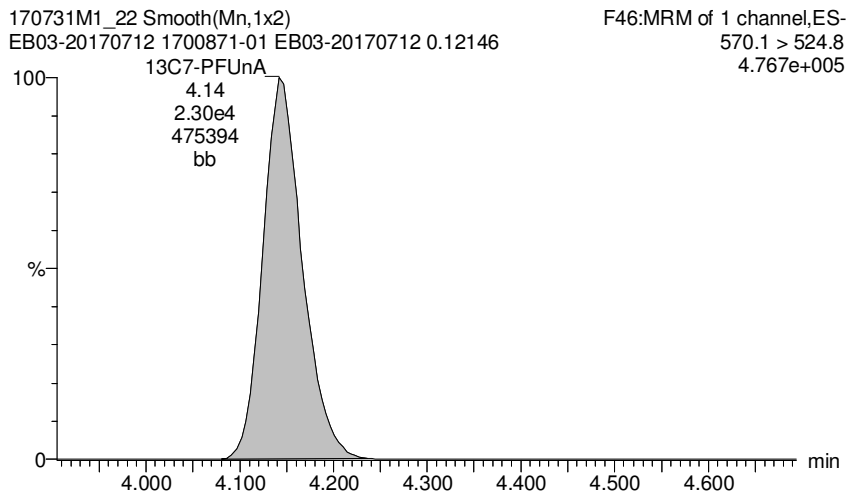
Dataset: U:\Q4.PRO\results\170731M1\170731M1-22.qld

Last Altered: Wednesday, August 02, 2017 16:05:52 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:08:54 Pacific Daylight Time

Name: 170731M1_22, Date: 31-Jul-2017, Time: 16:04:30, ID: 1700871-01 EB03-20170712 0.12146, Description: EB03-20170712

13C7-PFUnA



Dataset: U:\Q4.PRO\results\170727M1\170727M1-72.qld

Last Altered: Thursday, August 03, 2017 13:49:30 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:54:28 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_72, Date: 28-Jul-2017, Time: 00:22:44, ID: 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, Description: 5-GW-05_DGMW41B-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	2.30e2	2.78e3	0.115		2.96	2.90	1.03	4.19	
2	4 PFHxA	313.2 > 268.9	3.14e3	9.63e3	0.115		3.19	3.15	1.63	8.79	
3	5 PFHpA	363 > 318.9	1.12e3	2.25e4	0.115		3.45	3.41	0.625	3.60	
4	6 PFHxS	398.9 > 79.6	3.83e2	1.99e3	0.115		3.56	3.48	2.41	11.2	
5	7 PFOA	413 > 368.7	7.49e3	2.87e4	0.115		3.65	3.61	3.26	27.3	
6	9 PFNA	462.9 > 418.8		2.23e4	0.115		3.83				
7	11 PFOS	499 > 79.9	2.05e2	4.43e3	0.115		3.89	3.77	0.579	4.13	
8	12 PFDA	513 > 468.8		2.26e4	0.115		4.01				
9	13 N-MeFOSAA	570.1 > 419		4.18e3	0.115		4.03				
10	14 N-EtFOSAA	584.2 > 419		4.36e3	0.115		4.10				
11	15 PFUnA	562.9 > 518.9		2.28e4	0.115		4.11				
12	17 PFDoA	612.9 > 318.8		1.86e3	0.115		4.34				
13	22 13C3-PFBS	302 > 98.8	2.78e3	3.14e4	0.115	0.031	2.96	2.89	0.444	125	115.7
14	23 13C2-PFHxA	315 > 269.8	9.63e3	3.14e4	0.115	0.275	3.19	3.14	1.54	48.3	111.7
15	24 13C4-PFHpA	367.2 > 321.8	2.25e4	3.14e4	0.115	0.260	3.45	3.41	3.58	119	110.3
16	25 18O2-PFHxS	403 > 102.6	1.99e3	4.78e3	0.115	0.402	3.56	3.48	5.21	112	103.6
17	26 13C2-PFOA	414.9 > 369.7	2.87e4	2.58e4	0.115	1.042	3.65	3.61	13.9	116	106.7
18	27 13C5-PFNA	468.2 > 422.9	2.23e4	2.95e4	0.115	0.792	3.83	3.79	9.46	103	95.6

Dataset: U:\Q4.PRO\results\170727M1\170727M1-72.qld

Last Altered: Thursday, August 03, 2017 13:49:30 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:54:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_72, Date: 28-Jul-2017, Time: 00:22:44, ID: 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, Description: 5-GW-05_DGMW41B-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	4.43e3	4.27e3	0.115	0.951	3.89	3.84	13.0	118	109.2
2	30 13C2-PFDA	515.1 > 469.9	2.26e4	2.74e4	0.115	0.869	4.01	3.95	10.3	103	95.1
3	31 d3-N-MeFOSAA	573.3 > 419	4.18e3	2.54e4	0.115	0.013	4.03	3.99	2.06	1380	97.8
4	32 d5-N-EtFOSAA	589.3 > 419	4.36e3	2.54e4	0.115	0.013	4.12	4.05	2.15	1460	103.9
5	33 13C2-PFUnA	565 > 519.8	2.28e4	2.54e4	0.115	0.928	4.17	4.12	11.2	105	96.8
6	34 13C2-PFDoA	615 > 569.7	1.86e3	2.54e4	0.115	0.071	4.34	4.28	0.915	111	103.0
7	37 13C5-PFHxA	318 > 272.9	3.14e4	3.14e4	0.115	1.000	3.19	3.14	5.00	43.3	100.0
8	38 13C3-PFHxS	401.9 > 79.9	4.78e3	4.78e3	0.115	1.000	3.56	3.48	12.5	108	100.0
9	39 13C8-PFOA	421.3 > 376	2.58e4	2.58e4	0.115	1.000	3.65	3.61	12.5	108	100.0
10	40 13C9-PFNA	472.2 > 426.9	2.95e4	2.95e4	0.115	1.000	3.83	3.79	12.5	108	100.0
11	41 13C4-PFOS	503 > 79.9	4.27e3	4.27e3	0.115	1.000	3.89	3.84	12.5	108	100.0
12	42 13C6-PFDA	519.1 > 473.7	2.74e4	2.74e4	0.115	1.000	4.01	3.96	12.5	108	100.0
13	43 13C7-PFUnA	570.1 > 524.8	2.54e4	2.54e4	0.115	1.000	4.17	4.12	12.5	108	100.0
14	44 Total PFBS	299 > 79.7	2.30e2	2.78e3	0.115		2.96		1.03	4.19	
15	45 Total PFHxS	398.9 > 79.6	3.83e2	1.99e3	0.115		3.52		2.41	11.2	
16	46 Total PFOA	413 > 368.7	8.00e3	2.87e4	0.115		3.65		3.48	27.8	
17	47 Total PFOS	499 > 79.9	2.05e2	4.43e3	0.115		3.89		0.579	4.13	
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	4.18e3	0.115		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	4.36e3	0.115		4.17		0.000		

Dataset:

U:\Q4.PRO\results\170727M1\170727M1-72.qld

Last Altered:

Thursday, August 03, 2017 13:49:30 Pacific Daylight Time

Printed:

Thursday, August 03, 2017 13:54:28 Pacific Daylight Time

Method:

U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration:

U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name:

170727M1_72, Date: 28-Jul-2017, Time: 00:22:44, ID: 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, Description: 5-GW-05_DGMW41B-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	230.376	2784.345	1.034	MM	4.2

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.48	382.846	1988.701	2.406	bb	11.2

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.61	7489.734	28716.662	3.260	MM	27.3
2	46 Total PFOA	413 > 368.7	3.57	506.851	28716.662	0.221	MM	0.4

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.77	205.160	4432.725	0.579	bb	4.1

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419			4177.033		MM-I	

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			4357.655		MM-I	

Dataset: U:\Q4.PRO\results\170727M1\170727M1-72.qld

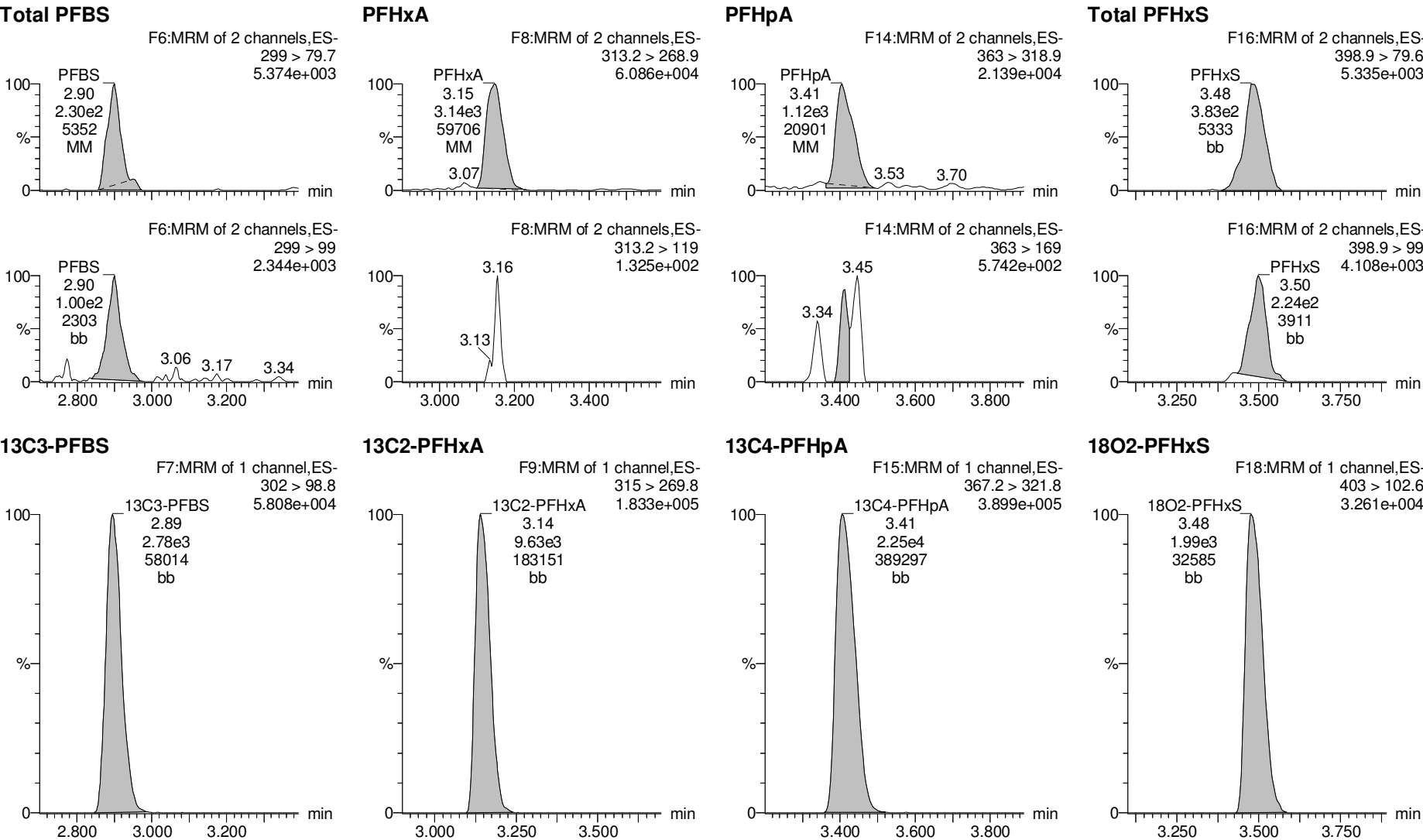
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Printed: Thursday, August 03, 2017 13:54:28 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_72, Date: 28-Jul-2017, Time: 00:22:44, ID: 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, Description: 5-GW-05_DGMW41B-20170712

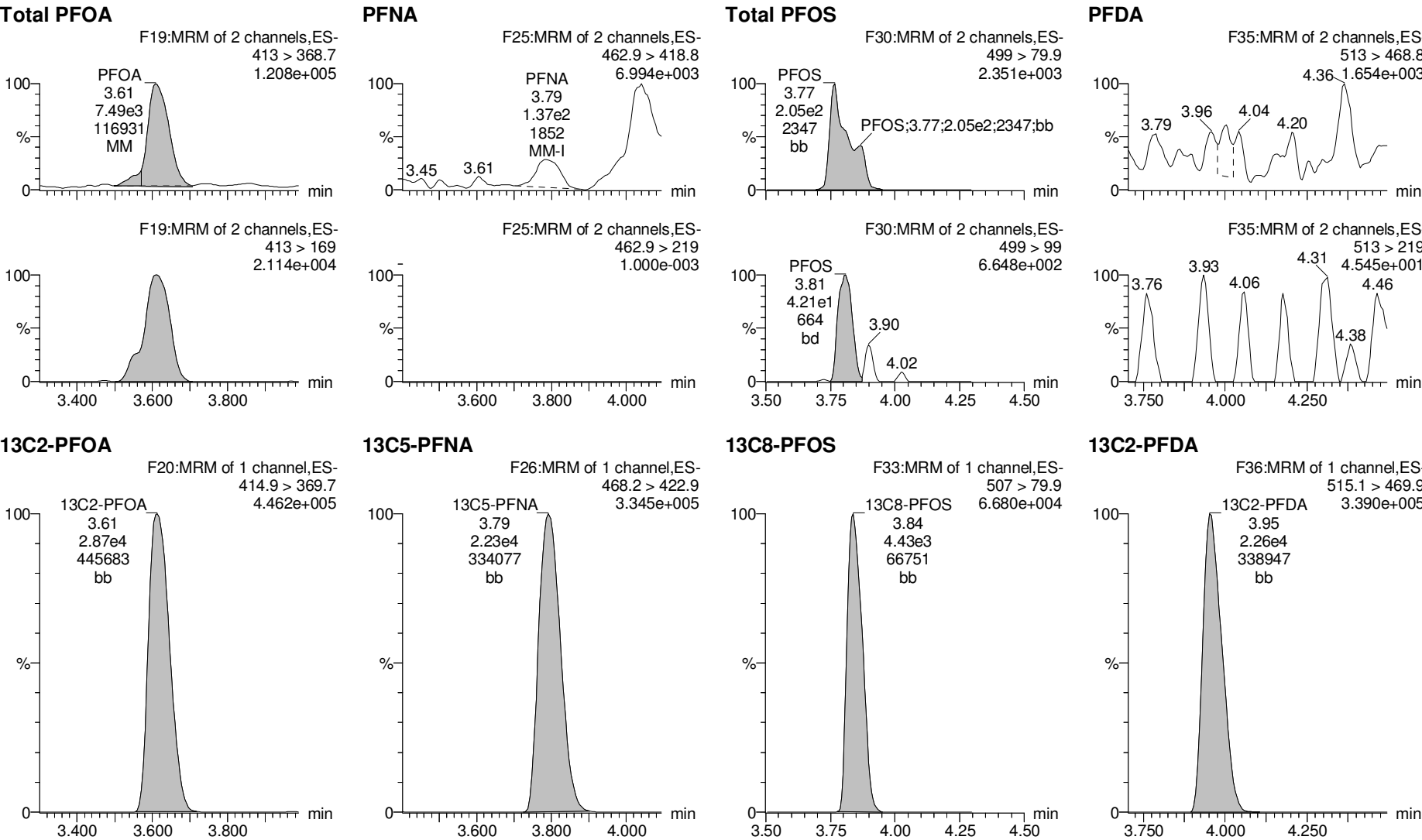


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Printed: Thursday, August 03, 2017 13:54:28 Pacific Daylight Time

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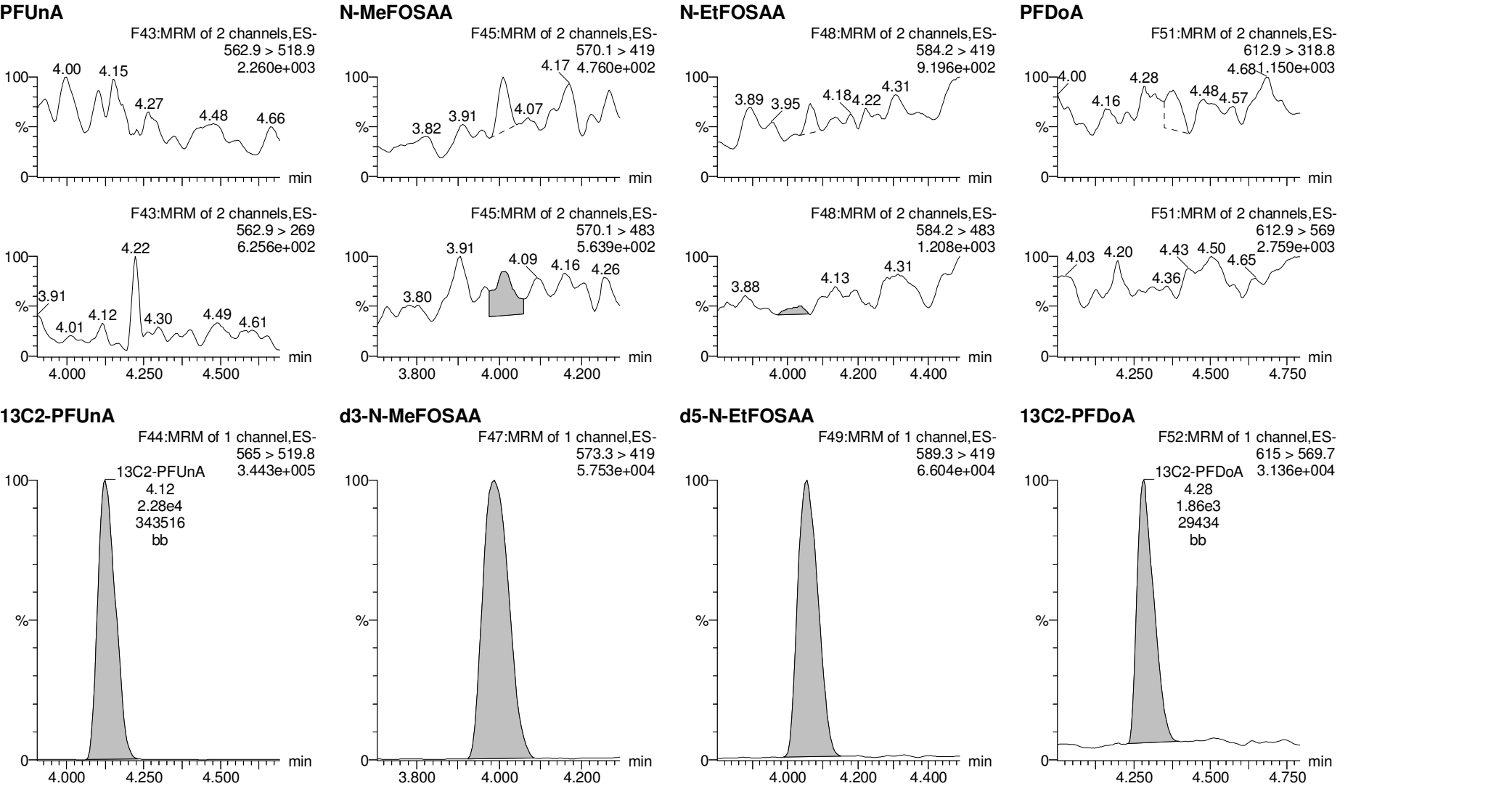


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Printed: Thursday, August 03, 2017 13:54:28 Pacific Daylight Time

Name: 170727M1_72, Date: 28-Jul-2017, Time: 00:22:44, ID: 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, Description: 5-GW-05_DGMW41B-20170712

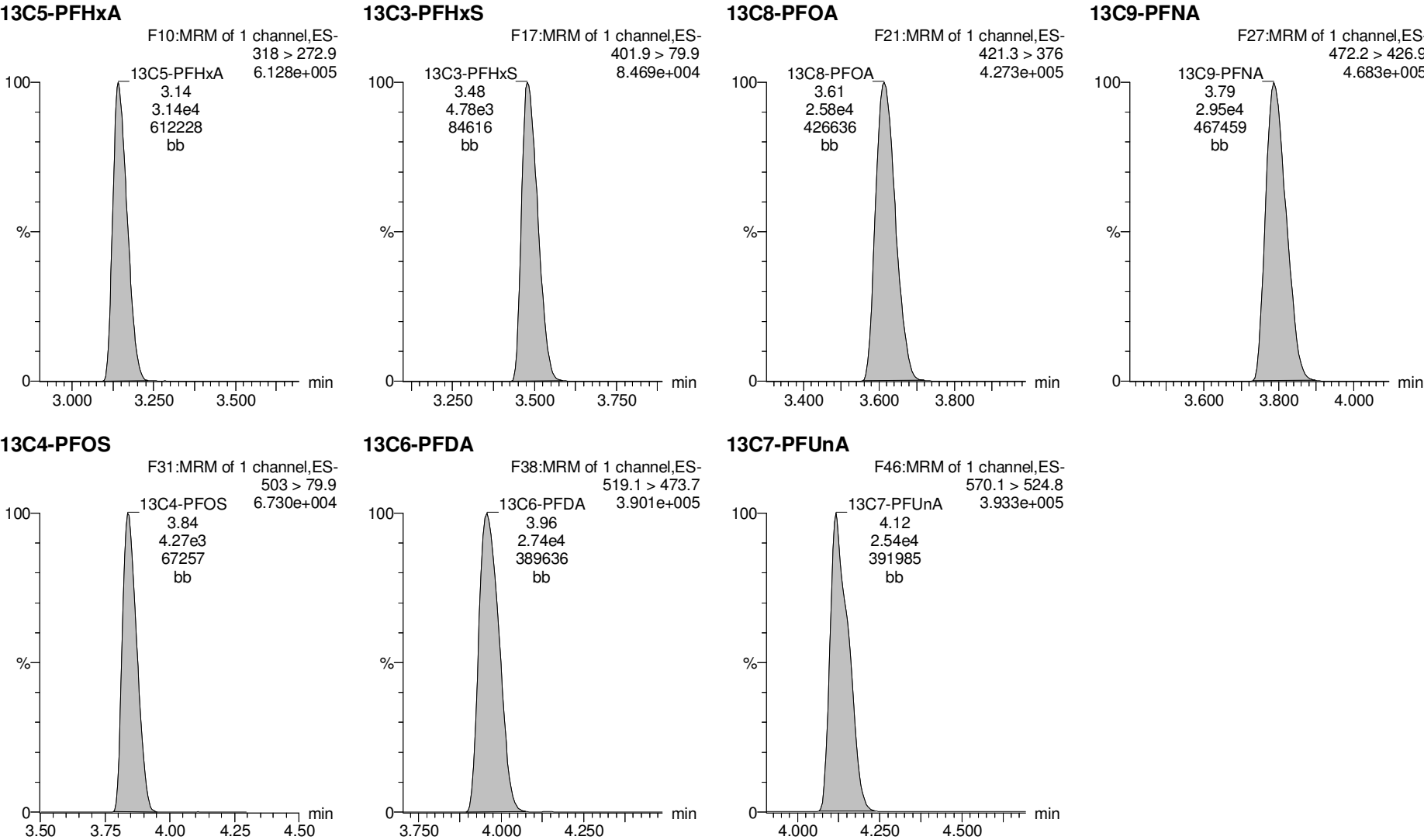


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Printed: Thursday, August 03, 2017 13:54:28 Pacific Daylight Time

Name: 170727M1_72, Date: 28-Jul-2017, Time: 00:22:44, ID: 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, Description: 5-GW-05_DGMW41B-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-23.qld

Last Altered: Wednesday, August 02, 2017 16:09:52 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:10:22 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_23, **Date:** 31-Jul-2017, **Time:** 16:15:16, **ID:** 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, **Description:** 5-GW-05_DGMW41B-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.53e3	0.1155		4.50				
2	19 PFTeDA	712.9 > 668.8		9.25e3	0.1155		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	9.25e3	2.20e4	0.1155	0.762	4.68	4.65	5.27	59.8	55.3
4	43 13C7-PFUnA	570.1 > 524.8	2.20e4	2.20e4	0.1155	1.000	4.17	4.14	12.5	108	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-23.qld

Last Altered: Wednesday, August 02, 2017 16:09:52 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:10:22 Pacific Daylight Time

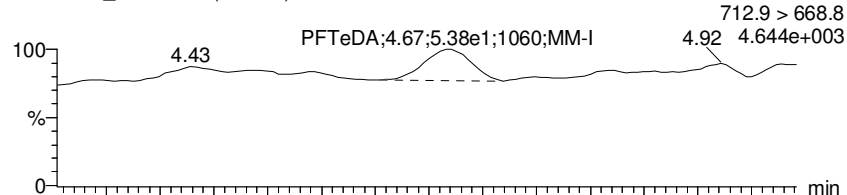
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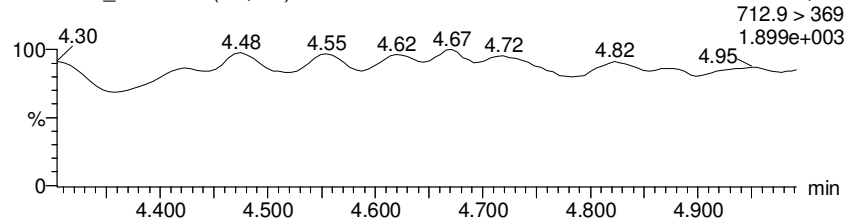
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PFTeDA

170731M1_23 Smooth(Mn,1x2)

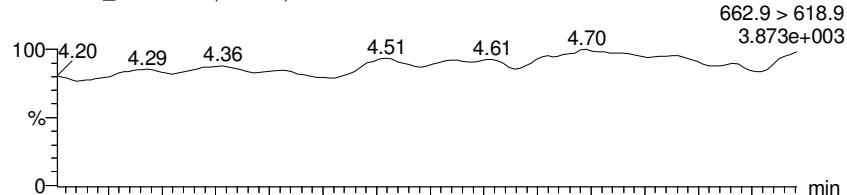


170731M1_23 Smooth(Mn,1x2)

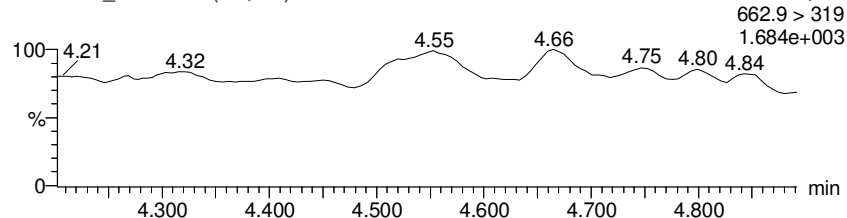


PFTrDA

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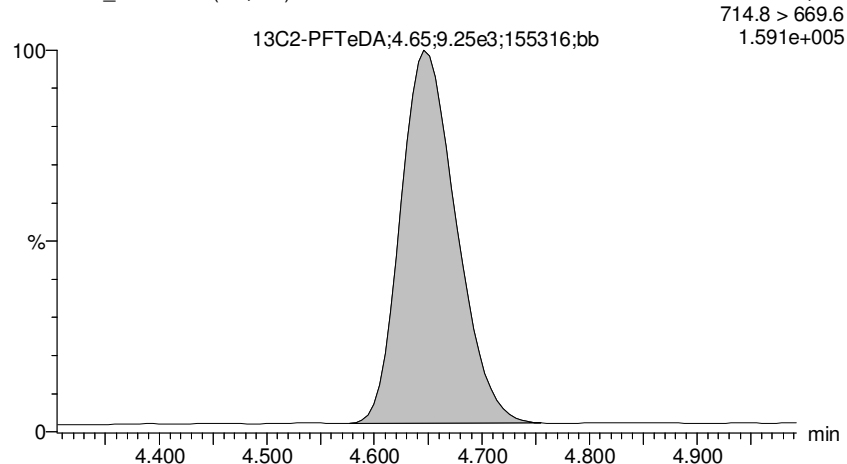


170731M1_23 Smooth(Mn,1x2)



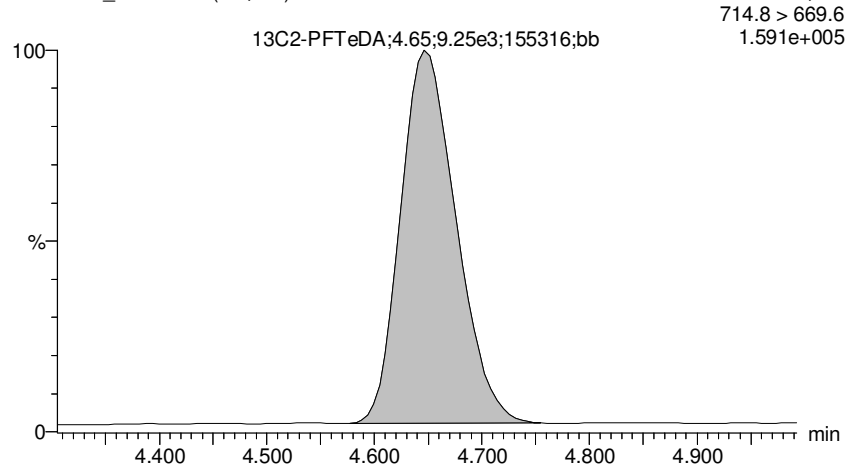
13C2-PFTeDA

170731M1_23 Smooth(Mn,1x2)



13C2-PFTeDA

170731M1_23 Smooth(Mn,1x2)



Dataset: U:\Q4.PRO\results\170731M1\170731M1-23.qld

Last Altered: Wednesday, August 02, 2017 16:09:52 Pacific Daylight Time

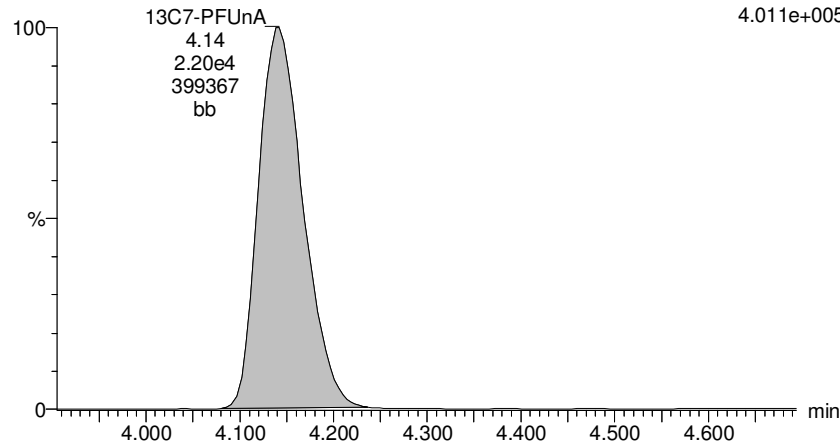
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Name: 170731M1_23, Date: 31-Jul-2017, Time: 16:15:16, ID: 1700871-02 5-GW-05_DGMW41B-20170712 0.11547, Description: 5-GW-05_DGMW41B-20170712

13C7-PFUnA

170731M1_23 Smooth(Mn,1x2)

F46:MRM of 1 channel,ES-
570.1 > 524.8
4.011e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-73.qld

Last Altered: Thursday, August 03, 2017 13:56:10 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:56:30 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_73, Date: 28-Jul-2017, Time: 00:33:31, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7		2.78e3	0.118		2.96				
2	4 PFHxA	313.2 > 268.9	2.80e3	9.65e3	0.118		3.19	3.15	1.45	7.61	
3	5 PFHpA	363 > 318.9	3.65e2	2.36e4	0.118		3.45	3.41	0.193	0.559	
4	6 PFHxS	398.9 > 79.6	1.21e2	2.05e3	0.118		3.56	3.48	0.735	2.38	
5	7 PFOA	413 > 368.7	1.36e3	2.94e4	0.118		3.65	3.61	0.577	3.53	
6	9 PFNA	462.9 > 418.8		2.36e4	0.118		3.83				
7	11 PFOS	499 > 79.9		4.75e3	0.118		3.89				
8	12 PFDA	513 > 468.8		2.40e4	0.118		4.01				
9	13 N-MeFOSAA	570.1 > 419		4.38e3	0.118		4.03				
10	14 N-EtFOSAA	584.2 > 419		4.57e3	0.118		4.10				
11	15 PFUnA	562.9 > 518.9		2.54e4	0.118		4.11				
12	17 PFDoA	612.9 > 318.8		2.07e3	0.118		4.34				
13	22 13C3-PFBS	302 > 98.8	2.78e3	3.28e4	0.118	0.031	2.96	2.90	0.424	117	110.5
14	23 13C2-PFHxA	315 > 269.8	9.65e3	3.28e4	0.118	0.275	3.19	3.15	1.47	45.5	107.0
15	24 13C4-PFHpA	367.2 > 321.8	2.36e4	3.28e4	0.118	0.260	3.45	3.41	3.60	118	110.7
16	25 18O2-PFHxS	403 > 102.6	2.05e3	4.55e3	0.118	0.402	3.56	3.49	5.64	119	112.1
17	26 13C2-PFOA	414.9 > 369.7	2.94e4	2.62e4	0.118	1.042	3.65	3.61	14.0	114	107.5
18	27 13C5-PFNA	468.2 > 422.9	2.36e4	2.86e4	0.118	0.792	3.83	3.79	10.3	111	104.3

Dataset: U:\Q4.PRO\results\170727M1\170727M1-73.qld

Last Altered: Thursday, August 03, 2017 13:56:10 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:56:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_73, Date: 28-Jul-2017, Time: 00:33:31, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	4.75e3	4.32e3	0.118	0.951	3.89	3.84	13.7	123	115.5
2	30 13C2-PFDA	515.1 > 469.9	2.40e4	2.90e4	0.118	0.869	4.01	3.96	10.4	102	95.5
3	31 d3-N-MeFOSAA	573.3 > 419	4.38e3	3.06e4	0.118	0.013	4.03	3.98	1.79	1170	85.0
4	32 d5-N-EtFOSAA	589.3 > 419	4.57e3	3.06e4	0.118	0.013	4.12	4.05	1.87	1250	90.4
5	33 13C2-PFUnA	565 > 519.8	2.54e4	3.06e4	0.118	0.928	4.17	4.12	10.4	95.0	89.4
6	34 13C2-PFDoA	615 > 569.7	2.07e3	3.06e4	0.118	0.071	4.34	4.28	0.846	101	95.2
7	37 13C5-PFHxA	318 > 272.9	3.28e4	3.28e4	0.118	1.000	3.19	3.14	5.00	42.5	100.0
8	38 13C3-PFHxS	401.9 > 79.9	4.55e3	4.55e3	0.118	1.000	3.56	3.48	12.5	106	100.0
9	39 13C8-PFOA	421.3 > 376	2.62e4	2.62e4	0.118	1.000	3.65	3.61	12.5	106	100.0
10	40 13C9-PFNA	472.2 > 426.9	2.86e4	2.86e4	0.118	1.000	3.83	3.79	12.5	106	100.0
11	41 13C4-PFOS	503 > 79.9	4.32e3	4.32e3	0.118	1.000	3.89	3.84	12.5	106	100.0
12	42 13C6-PFDA	519.1 > 473.7	2.90e4	2.90e4	0.118	1.000	4.01	3.96	12.5	106	100.0
13	43 13C7-PFUnA	570.1 > 524.8	3.06e4	3.06e4	0.118	1.000	4.17	4.12	12.5	106	100.0
14	44 Total PFBS	299 > 79.7	0.00e0	2.78e3	0.118		2.96		0.000		
15	45 Total PFHxS	398.9 > 79.6	1.21e2	2.05e3	0.118		3.52		0.735	2.38	
16	46 Total PFOA	413 > 368.7	1.36e3	2.94e4	0.118		3.65		0.577	3.53	
17	47 Total PFOS	499 > 79.9	0.00e0	4.75e3	0.118		3.89		0.000		
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	4.38e3	0.118		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	4.57e3	0.118		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-73.qld

Last Altered: Thursday, August 03, 2017 13:56:10 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:56:30 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_73, Date: 28-Jul-2017, Time: 00:33:31, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7			2778.234		MM-I	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.48	120.816	2053.514	0.735	MM	2.4

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.61	1356.579	29408.689	0.577	bb	3.5

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170727M1\170727M1-73.qld

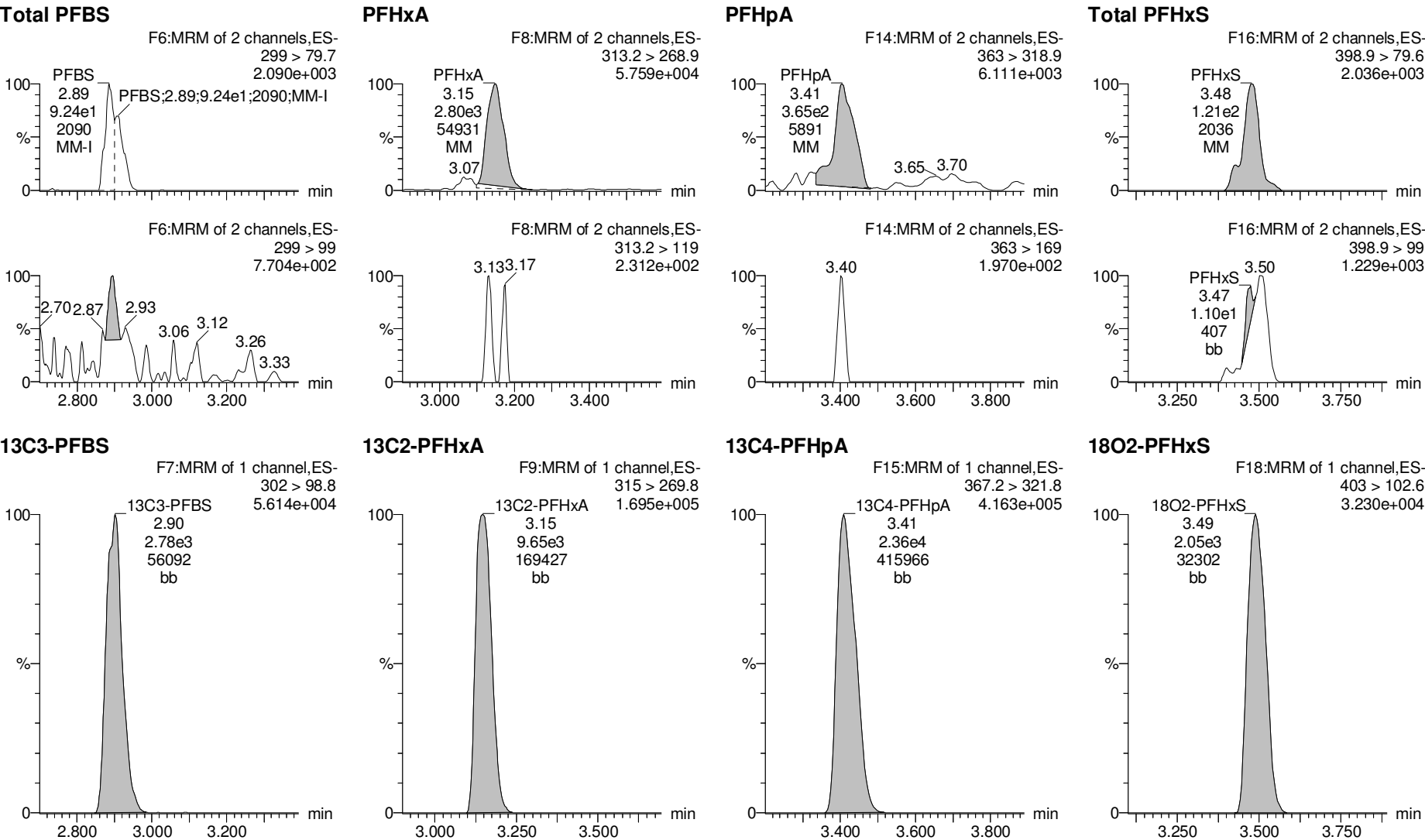
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Printed: Thursday, August 03, 2017 13:56:30 Pacific Daylight Time

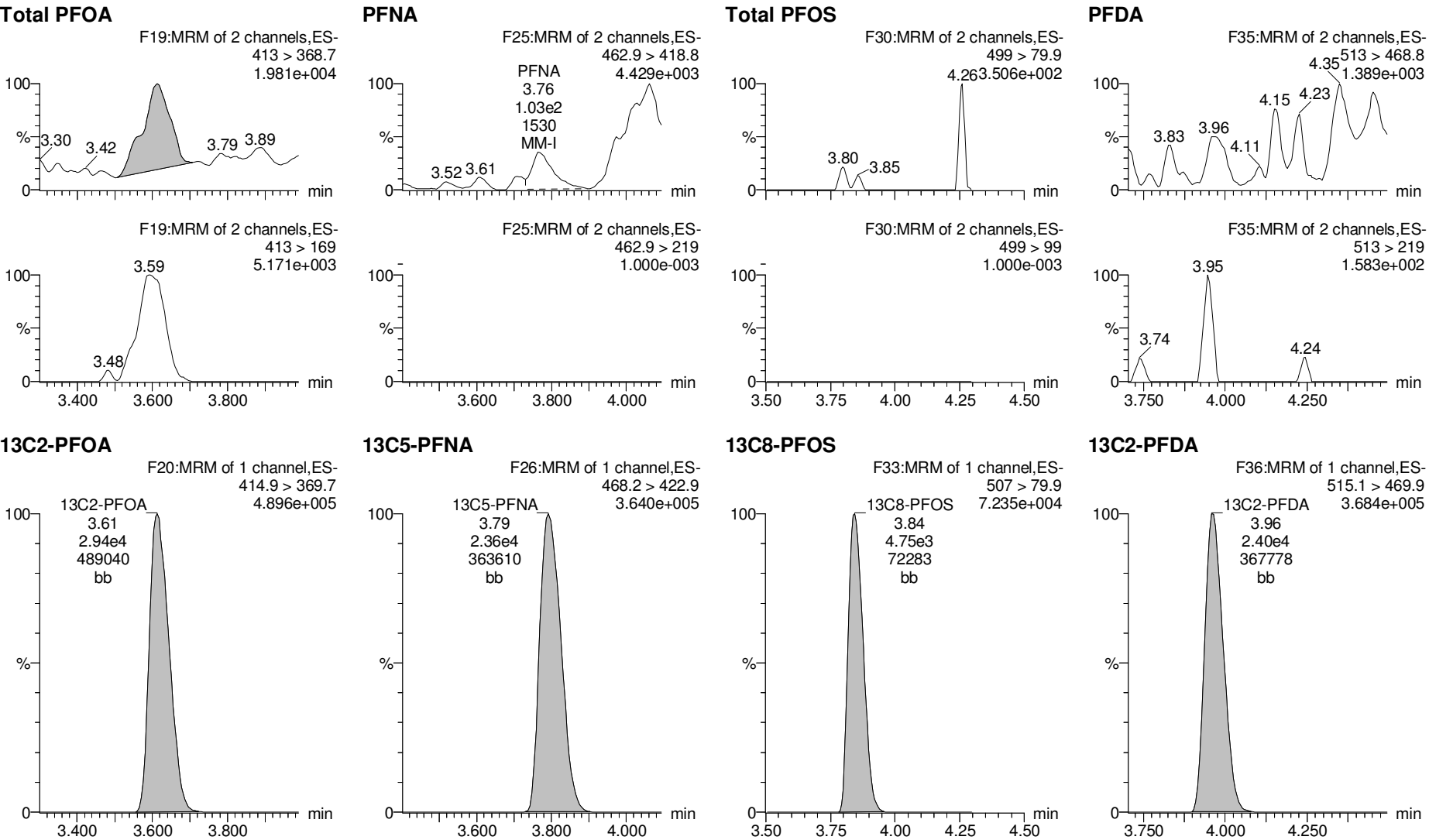
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Name: 170727M1_73, Date: 28-Jul-2017, Time: 00:33:31, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712



Name: 170727M1_73, **Date:** 28-Jul-2017, **Time:** 00:33:31, **ID:** 1700871-03 18-GW-18BGM03E-20170712 0.11765, **Description:** 18-GW-18BGM03E-20170712

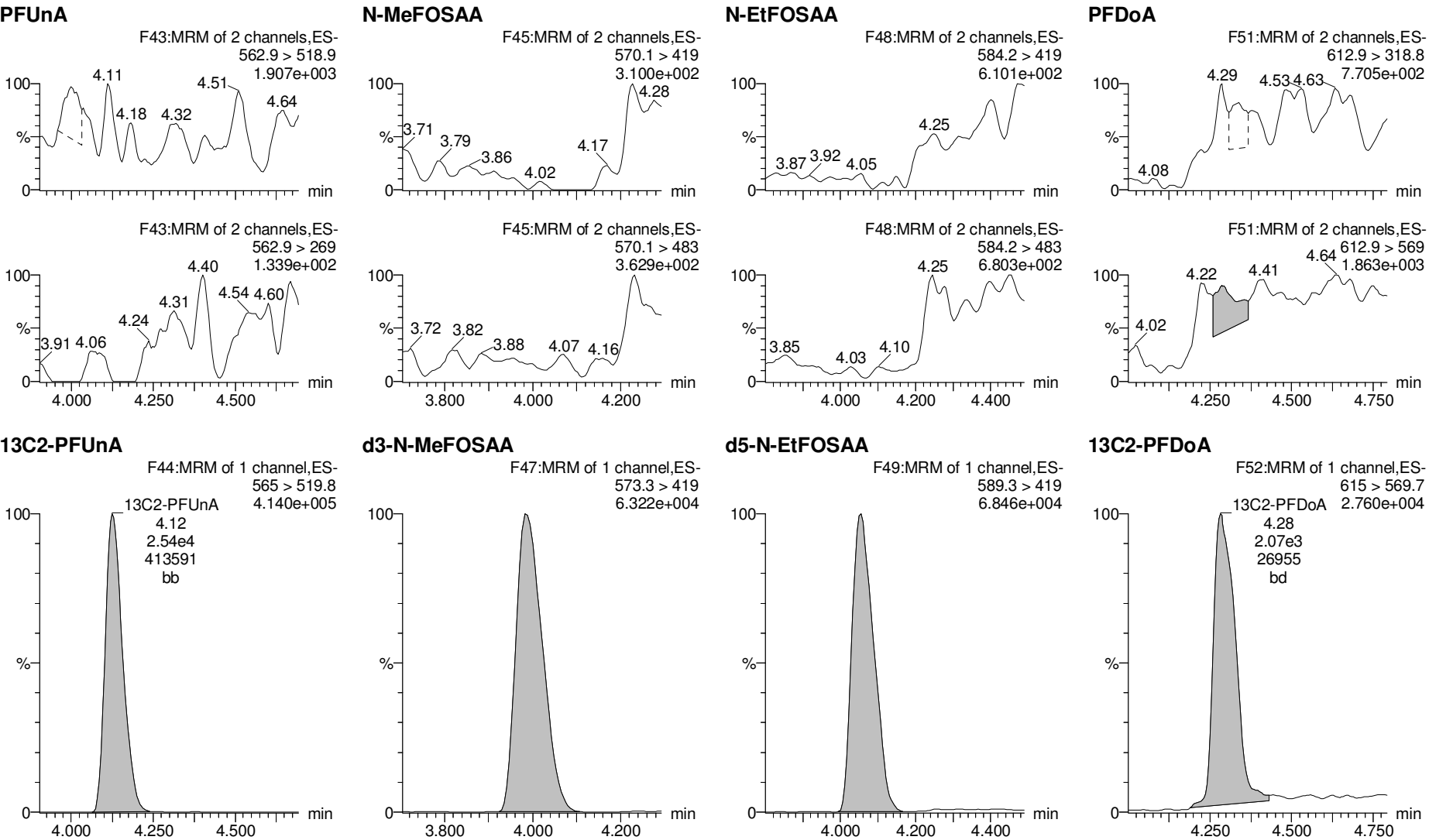


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Name: 170727M1_73, Date: 28-Jul-2017, Time: 00:33:31, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712

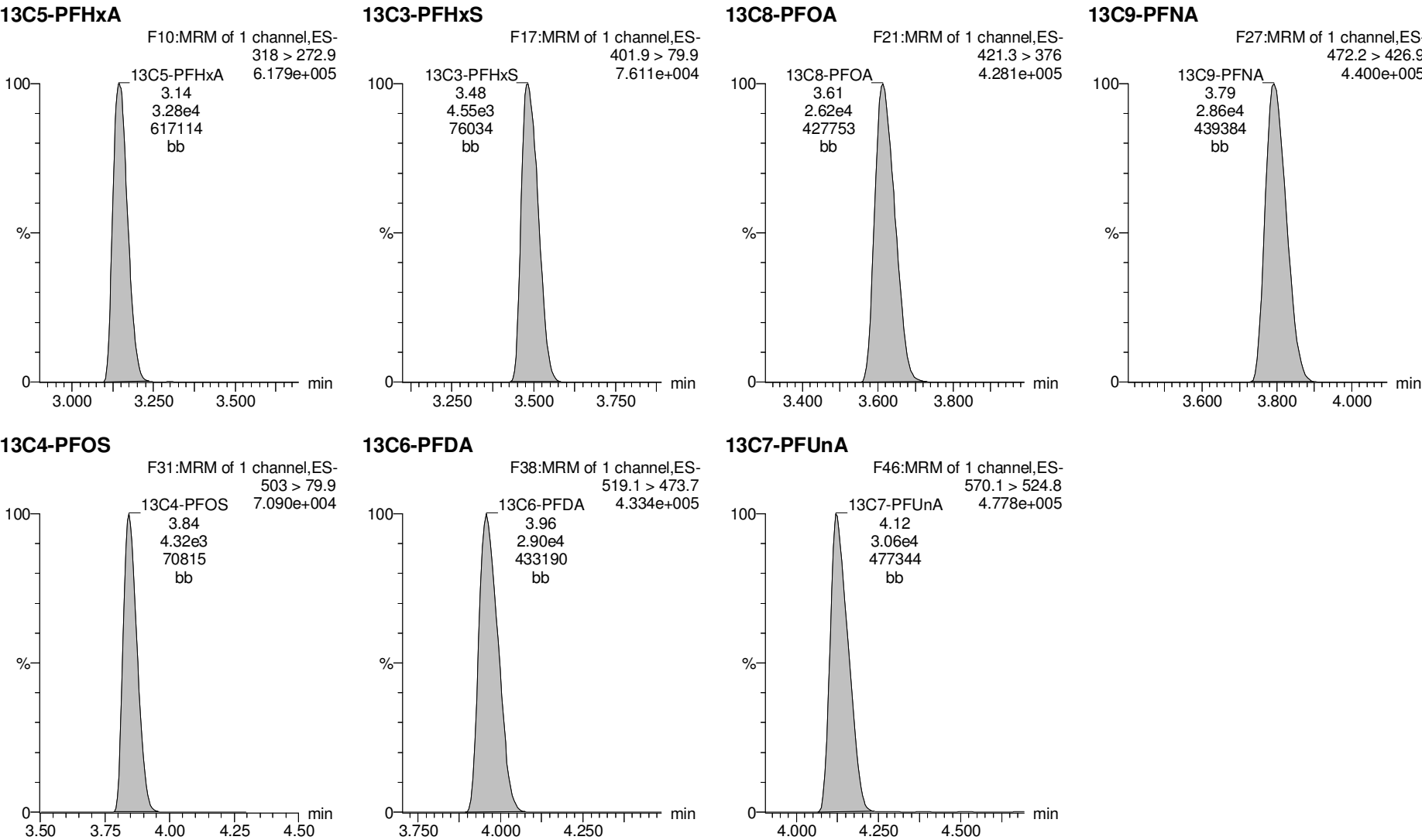


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Name: 170727M1_73, Date: 28-Jul-2017, Time: 00:33:31, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-24.qld

Last Altered: Wednesday, August 02, 2017 16:11:16 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:11:27 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_24, Date: 31-Jul-2017, Time: 16:25:55, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.31e3	0.1177		4.50				
2	19 PFTeDA	712.9 > 668.8		8.96e3	0.1177		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	8.96e3	2.09e4	0.1177	0.762	4.68	4.65	5.36	59.8	56.3
4	43 13C7-PFUnA	570.1 > 524.8	2.09e4	2.09e4	0.1177	1.000	4.17	4.14	12.5	106	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-24.qld

Last Altered: Wednesday, August 02, 2017 16:11:16 Pacific Daylight Time

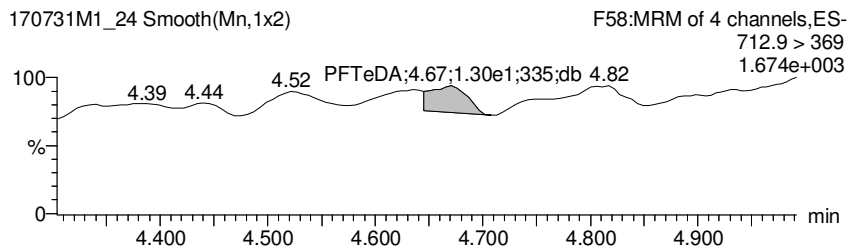
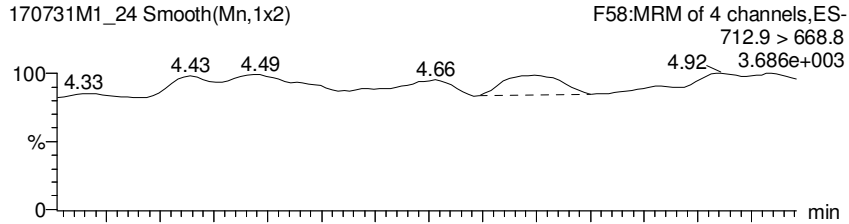
Printed: Wednesday, August 02, 2017 16:11:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

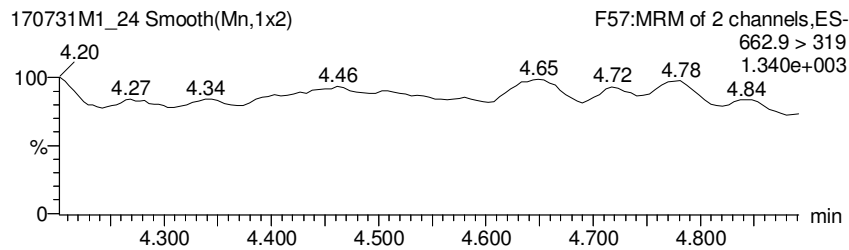
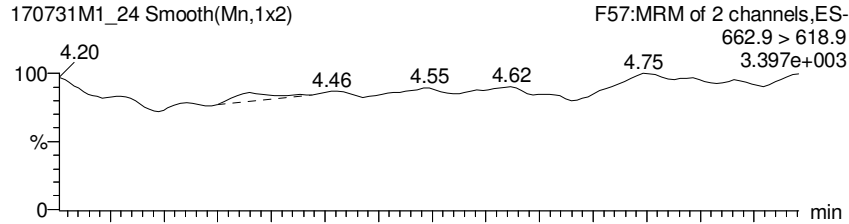
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Name: 170731M1_24, Date: 31-Jul-2017, Time: 16:25:55, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712

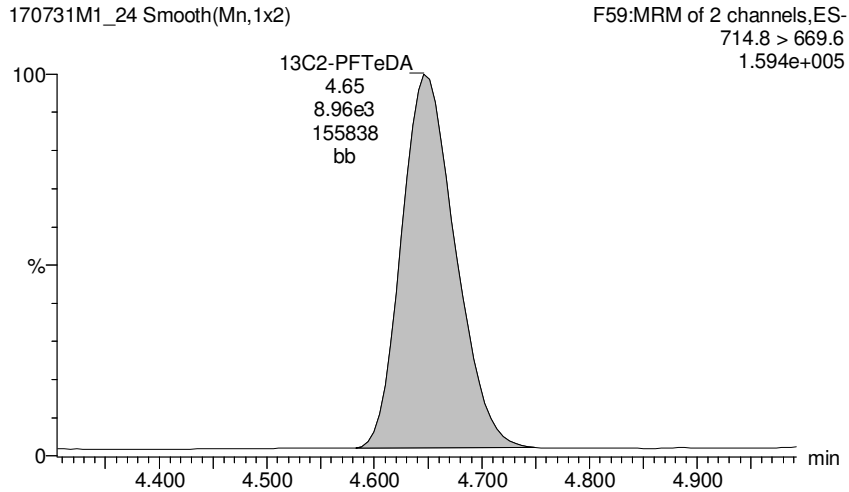
PFTeDA



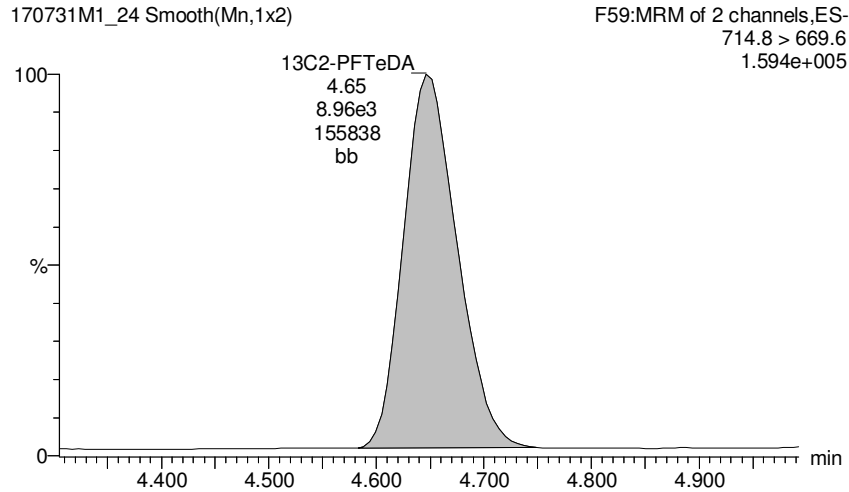
PFTrDA



13C2-PFTeDA



13C2-PFTeDA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-24.qld

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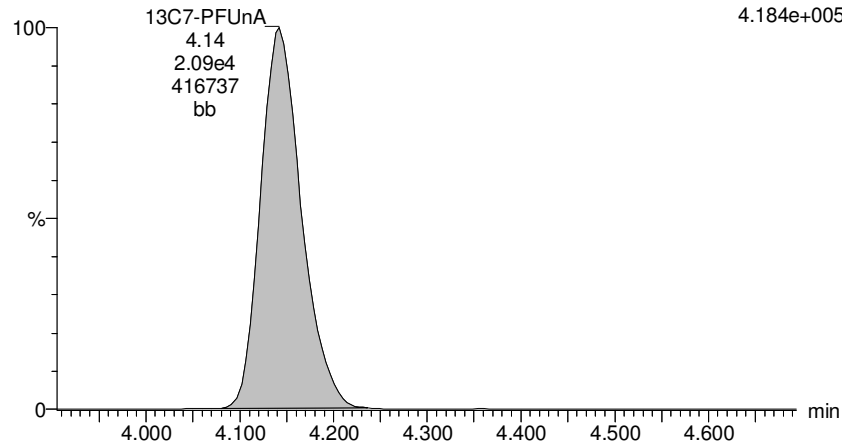
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Name: 170731M1_24, Date: 31-Jul-2017, Time: 16:25:55, ID: 1700871-03 18-GW-18BGM03E-20170712 0.11765, Description: 18-GW-18BGM03E-20170712

13C7-PFUnA

170731M1_24 Smooth(Mn,1x2)

F46:MRM of 1 channel,ES-
570.1 > 524.8
4.184e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-74.qld

Last Altered: Thursday, August 03, 2017 13:59:05 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:59:16 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_74, Date: 28-Jul-2017, Time: 00:44:15, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	6.47e2	3.85e3	0.117		2.96	2.90	2.10	8.97	
2	4 PFHxA	313.2 > 268.9	1.89e4	1.31e4	0.117		3.19	3.14	7.18	41.2	
3	5 PFHpA	363 > 318.9	2.36e3	3.03e4	0.117		3.45	3.41	0.973	5.95	
4	6 PFHxS	398.9 > 79.6	9.13e2	2.91e3	0.117		3.56	3.49	3.92	18.9	
5	7 PFOA	413 > 368.7	1.36e4	3.54e4	0.117		3.65	3.61	4.80	40.3	
6	9 PFNA	462.9 > 418.8		3.11e4	0.117		3.83				
7	11 PFOS	499 > 79.9		5.62e3	0.117		3.89				
8	12 PFDA	513 > 468.8		2.68e4	0.117		4.01				
9	13 N-MeFOSAA	570.1 > 419		5.36e3	0.117		4.03				
10	14 N-EtFOSAA	584.2 > 419		4.09e3	0.117		4.10				
11	15 PFUnA	562.9 > 518.9		2.70e4	0.117		4.11				
12	17 PFDoA	612.9 > 318.8		2.02e3	0.117		4.34				
13	22 13C3-PFBS	302 > 98.8	3.85e3	4.16e4	0.117	0.031	2.96	2.89	0.463	128	120.7
14	23 13C2-PFHxA	315 > 269.8	1.31e4	4.16e4	0.117	0.275	3.19	3.14	1.58	48.9	114.8
15	24 13C4-PFHpA	367.2 > 321.8	3.03e4	4.16e4	0.117	0.260	3.45	3.41	3.64	119	112.0
16	25 18O2-PFHxS	403 > 102.6	2.91e3	6.10e3	0.117	0.402	3.56	3.48	5.97	126	118.8
17	26 13C2-PFOA	414.9 > 369.7	3.54e4	3.15e4	0.117	1.042	3.65	3.61	14.0	115	107.8
18	27 13C5-PFNA	468.2 > 422.9	3.11e4	3.56e4	0.117	0.792	3.83	3.79	10.9	117	110.3

Dataset: U:\Q4.PRO\results\170727M1\170727M1-74.qld

Last Altered: Thursday, August 03, 2017 13:59:05 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:59:28 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_74, Date: 28-Jul-2017, Time: 00:44:15, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	5.62e3	5.51e3	0.117	0.951	3.89	3.84	12.7	114	107.3
2	30 13C2-PFDA	515.1 > 469.9	2.68e4	3.29e4	0.117	0.869	4.01	3.96	10.2	100	94.0
3	31 d3-N-MeFOSAA	573.3 > 419	5.36e3	2.87e4	0.117	0.013	4.03	3.99	2.34	1540	111.1
4	32 d5-N-EtFOSAA	589.3 > 419	4.09e3	2.87e4	0.117	0.013	4.12	4.05	1.78	1190	86.2
5	33 13C2-PFUnA	565 > 519.8	2.70e4	2.87e4	0.117	0.928	4.17	4.12	11.8	108	101.3
6	34 13C2-PFDoA	615 > 569.7	2.02e3	2.87e4	0.117	0.071	4.34	4.29	0.879	105	98.9
7	37 13C5-PFHxA	318 > 272.9	4.16e4	4.16e4	0.117	1.000	3.19	3.14	5.00	42.6	100.0
8	38 13C3-PFHxS	401.9 > 79.9	6.10e3	6.10e3	0.117	1.000	3.56	3.49	12.5	106	100.0
9	39 13C8-PFOA	421.3 > 376	3.15e4	3.15e4	0.117	1.000	3.65	3.61	12.5	106	100.0
10	40 13C9-PFNA	472.2 > 426.9	3.56e4	3.56e4	0.117	1.000	3.83	3.79	12.5	106	100.0
11	41 13C4-PFOS	503 > 79.9	5.51e3	5.51e3	0.117	1.000	3.89	3.84	12.5	106	100.0
12	42 13C6-PFDA	519.1 > 473.7	3.29e4	3.29e4	0.117	1.000	4.01	3.96	12.5	106	100.0
13	43 13C7-PFUnA	570.1 > 524.8	2.87e4	2.87e4	0.117	1.000	4.17	4.12	12.5	106	100.0
14	44 Total PFBS	299 > 79.7	6.47e2	3.85e3	0.117		2.96		2.10	8.97	
15	45 Total PFHxS	398.9 > 79.6	9.13e2	2.91e3	0.117		3.52		3.92	18.9	
16	46 Total PFOA	413 > 368.7	1.36e4	3.54e4	0.117		3.65		4.80	40.3	
17	47 Total PFOS	499 > 79.9	0.00e0	5.62e3	0.117		3.89		0.000		
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	5.36e3	0.117		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	4.09e3	0.117		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-74.qld

Last Altered: Thursday, August 03, 2017 13:59:05 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:59:16 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_74, Date: 28-Jul-2017, Time: 00:44:15, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	647.146	3847.521	2.102	bb	9.0

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.49	913.281	2911.750	3.921	MM	18.9

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.61	13586.303	35369.656	4.802	bb	40.3

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419			5361.983		MM-I	

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			4086.482		MM-I	

Dataset: U:\Q4.PRO\results\170727M1\170727M1-74.qld

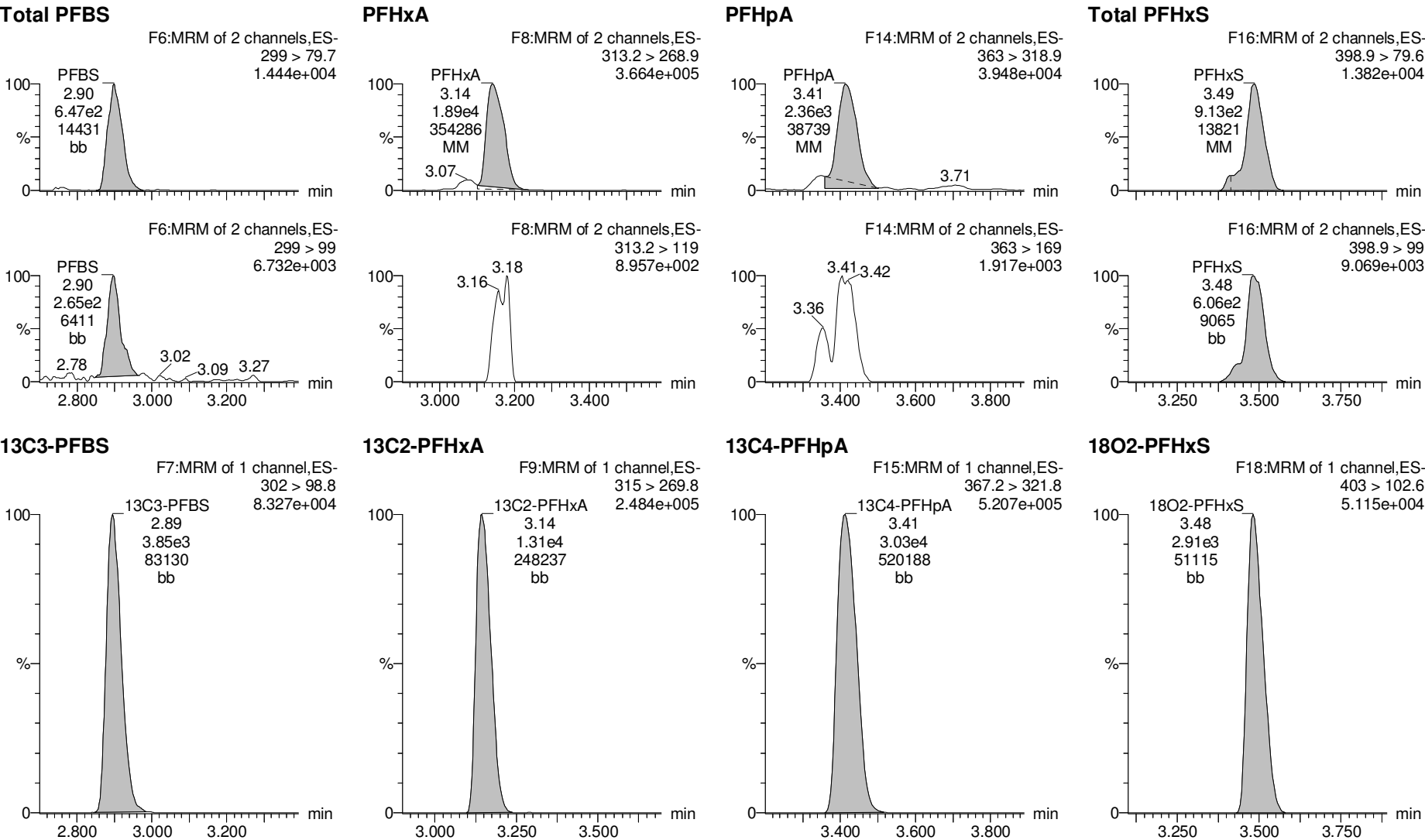
Last Altered: Thursday, August 03, 2017 13:59:05 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:59:16 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_74, Date: 28-Jul-2017, Time: 00:44:15, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

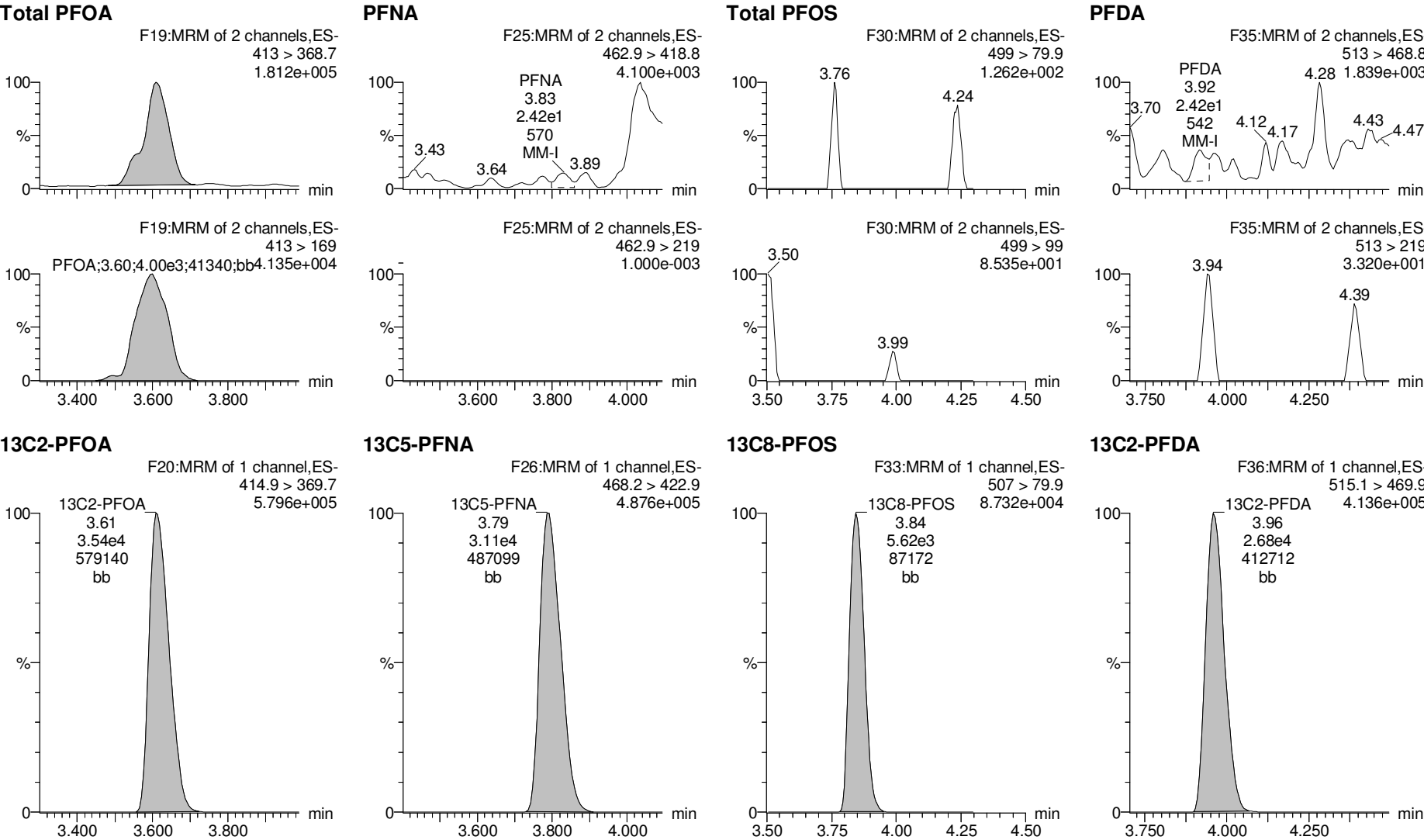


Dataset: U:\Q4.PRO\results\170727M1\170727M1-74.qld

Last Altered: Thursday, August 03, 2017 13:59:05 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:59:16 Pacific Daylight Time

Name: 170727M1_74, Date: 28-Jul-2017, Time: 00:44:15, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

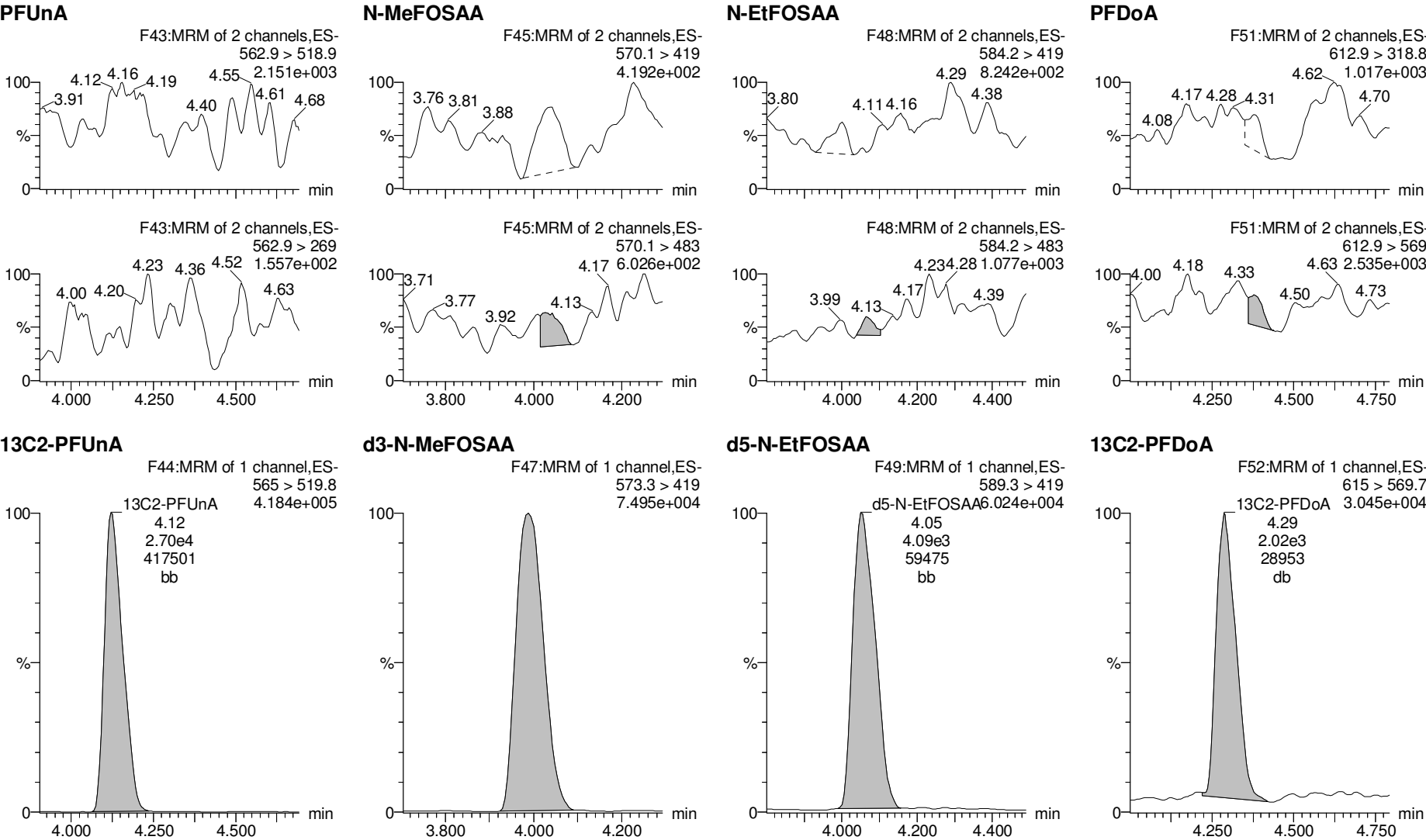


Dataset: U:\Q4.PRO\results\170727M1\170727M1-74.qld

Last Altered: Thursday, August 03, 2017 13:59:05 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:59:16 Pacific Daylight Time

Name: 170727M1_74, Date: 28-Jul-2017, Time: 00:44:15, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

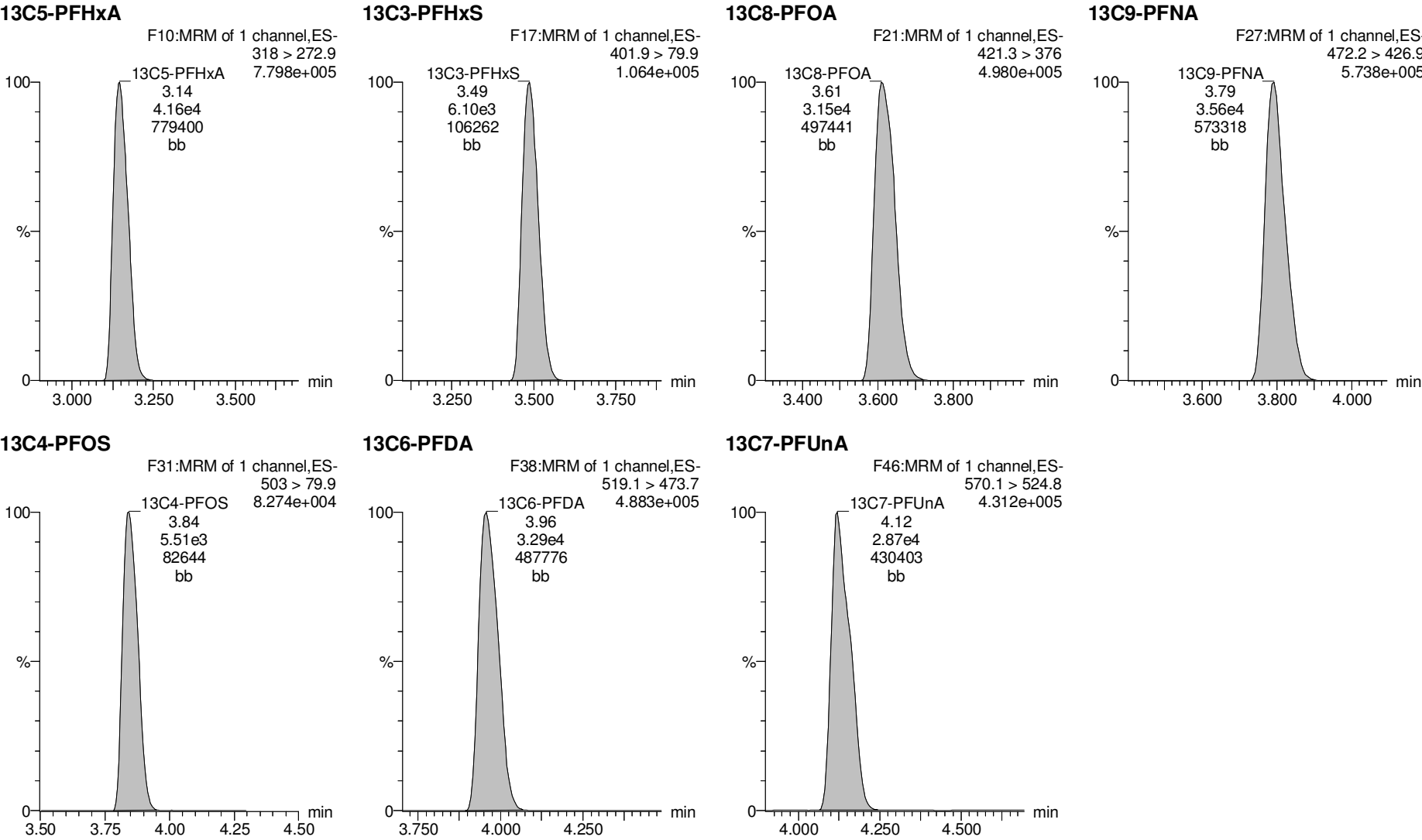


Dataset: U:\Q4.PRO\results\170727M1\170727M1-74.qld

Last Altered: Thursday, August 03, 2017 13:59:05 Pacific Daylight Time

Printed: Thursday, August 03, 2017 13:59:16 Pacific Daylight Time

Name: 170727M1_74, Date: 28-Jul-2017, Time: 00:44:15, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-25.qld

Last Altered: Wednesday, August 02, 2017 16:12:19 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:12:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_25, Date: 31-Jul-2017, Time: 16:36:59, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		8.78e2	0.1174		4.50				
2	19 PFTeDA	712.9 > 668.8		4.78e2	0.1174		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	4.78e2	1.77e4	0.1174	0.762	4.68	4.65	0.338	3.77	3.5
4	43 13C7-PFUnA	570.1 > 524.8	1.77e4	1.77e4	0.1174	1.000	4.17	4.15	12.5	106	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-25.qld

Last Altered: Wednesday, August 02, 2017 16:12:19 Pacific Daylight Time

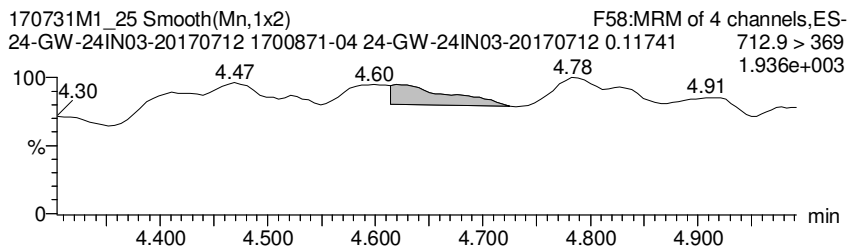
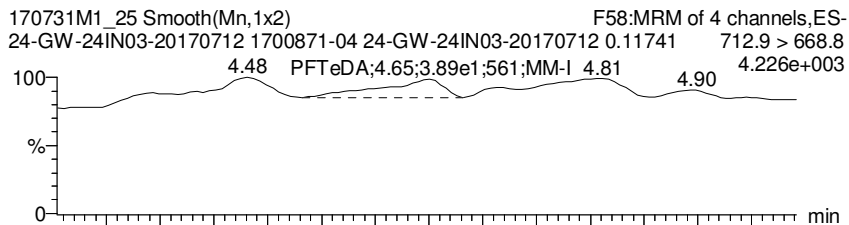
Printed: Wednesday, August 02, 2017 16:12:37 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

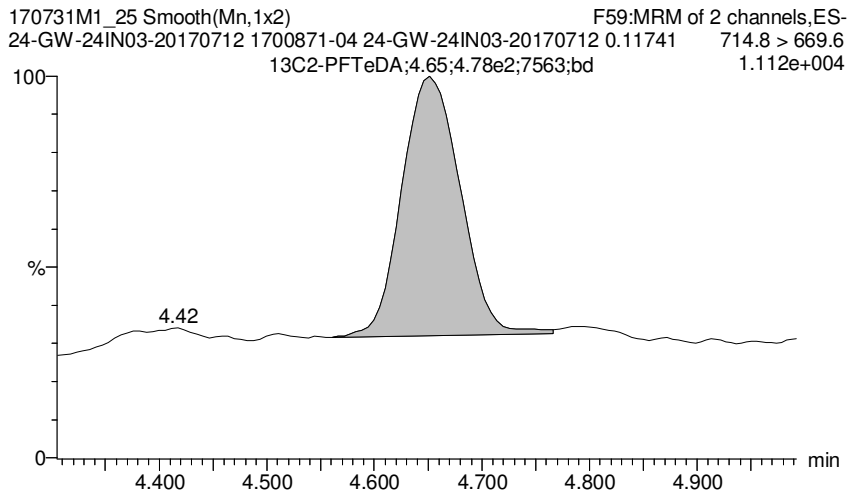
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_25, Date: 31-Jul-2017, Time: 16:36:59, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

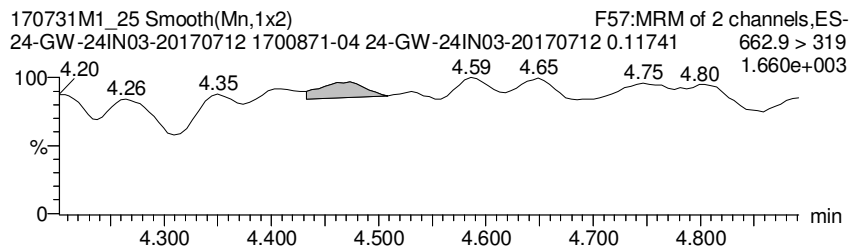
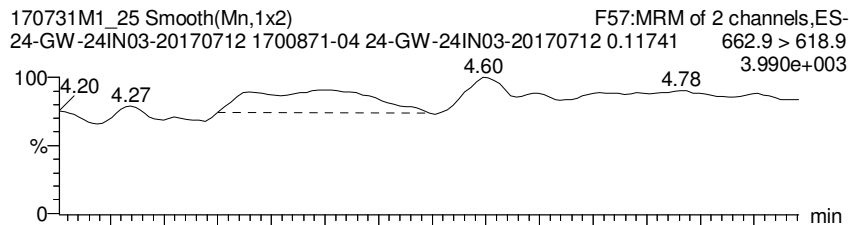
PFTeDA



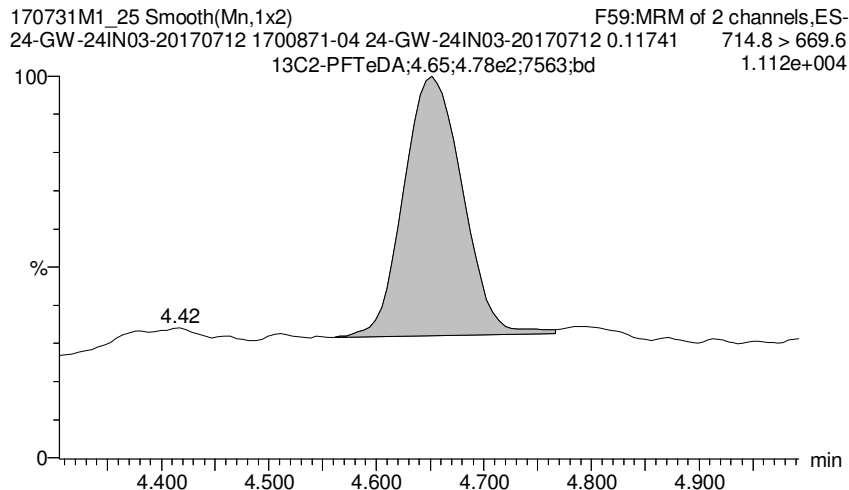
13C2-PFTeDA



PFTrDA



13C2-PFTeDA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-25.qld

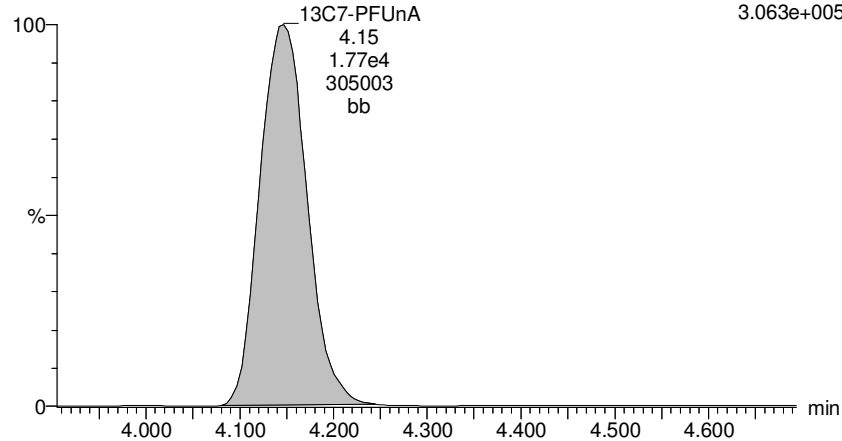
Last Altered: Wednesday, August 02, 2017 16:12:19 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:12:37 Pacific Daylight Time

Name: 170731M1_25, Date: 31-Jul-2017, Time: 16:36:59, ID: 1700871-04 24-GW-24IN03-20170712 0.11741, Description: 24-GW-24IN03-20170712

13C7-PFUnA

170731M1_25 Smooth(Mn,1x2) F46:MRM of 1 channel,ES-
24-GW-24IN03-20170712 1700871-04 24-GW-24IN03-20170712 0.11741 570.1 > 524.8
3.063e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-75.qld

Last Altered: Thursday, August 03, 2017 14:00:38 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:00:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_75, Date: 28-Jul-2017, Time: 00:54:53, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	6.39e2	3.53e3	0.118		2.96	2.90	2.27	9.66	
2	4 PFHxA	313.2 > 268.9	1.94e4	1.24e4	0.118		3.19	3.15	7.83	44.7	
3	5 PFHpA	363 > 318.9	2.48e3	2.75e4	0.118		3.45	3.41	1.13	6.96	
4	6 PFHxS	398.9 > 79.6	7.85e2	2.67e3	0.118		3.56	3.49	3.68	17.6	
5	7 PFOA	413 > 368.7	1.39e4	3.40e4	0.118		3.65	3.61	5.11	42.7	
6	9 PFNA	462.9 > 418.8		2.75e4	0.118		3.83				
7	11 PFOS	499 > 79.9		5.24e3	0.118		3.89				
8	12 PFDA	513 > 468.8		2.33e4	0.118		4.01				
9	13 N-MeFOSAA	570.1 > 419		4.69e3	0.118		4.03				
10	14 N-EtFOSAA	584.2 > 419		4.24e3	0.118		4.10				
11	15 PFUnA	562.9 > 518.9		2.42e4	0.118		4.11				
12	17 PFDoA	612.9 > 318.8		2.22e3	0.118		4.34				
13	22 13C3-PFBS	302 > 98.8	3.53e3	4.09e4	0.118	0.031	2.96	2.89	0.431	119	112.3
14	23 13C2-PFHxA	315 > 269.8	1.24e4	4.09e4	0.118	0.275	3.19	3.15	1.51	46.6	110.1
15	24 13C4-PFHpA	367.2 > 321.8	2.75e4	4.09e4	0.118	0.260	3.45	3.41	3.36	110	103.4
16	25 18O2-PFHxS	403 > 102.6	2.67e3	5.71e3	0.118	0.402	3.56	3.48	5.84	123	116.2
17	26 13C2-PFOA	414.9 > 369.7	3.40e4	3.26e4	0.118	1.042	3.65	3.61	13.1	106	100.3
18	27 13C5-PFNA	468.2 > 422.9	2.75e4	3.50e4	0.118	0.792	3.83	3.79	9.81	105	99.1

Dataset: U:\Q4.PRO\results\170727M1\170727M1-75.qld

Last Altered: Thursday, August 03, 2017 14:00:38 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:01:03 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_75, Date: 28-Jul-2017, Time: 00:54:53, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	5.24e3	5.05e3	0.118	0.951	3.89	3.85	13.0	115	109.1
2	30 13C2-PFDA	515.1 > 469.9	2.33e4	3.29e4	0.118	0.869	4.01	3.96	8.85	86.2	81.4
3	31 d3-N-MeFOSAA	573.3 > 419	4.69e3	3.01e4	0.118	0.013	4.03	3.99	1.94	1270	92.4
4	32 d5-N-EtFOSAA	589.3 > 419	4.24e3	3.01e4	0.118	0.013	4.12	4.05	1.76	1170	85.0
5	33 13C2-PFUnA	565 > 519.8	2.42e4	3.01e4	0.118	0.928	4.17	4.13	10.0	91.5	86.4
6	34 13C2-PFDoA	615 > 569.7	2.22e3	3.01e4	0.118	0.071	4.34	4.29	0.920	110	103.5
7	37 13C5-PFHxA	318 > 272.9	4.09e4	4.09e4	0.118	1.000	3.19	3.15	5.00	42.3	100.0
8	38 13C3-PFHxS	401.9 > 79.9	5.71e3	5.71e3	0.118	1.000	3.56	3.48	12.5	106	100.0
9	39 13C8-PFOA	421.3 > 376	3.26e4	3.26e4	0.118	1.000	3.65	3.61	12.5	106	100.0
10	40 13C9-PFNA	472.2 > 426.9	3.50e4	3.50e4	0.118	1.000	3.83	3.79	12.5	106	100.0
11	41 13C4-PFOS	503 > 79.9	5.05e3	5.05e3	0.118	1.000	3.89	3.84	12.5	106	100.0
12	42 13C6-PFDA	519.1 > 473.7	3.29e4	3.29e4	0.118	1.000	4.01	3.96	12.5	106	100.0
13	43 13C7-PFUnA	570.1 > 524.8	3.01e4	3.01e4	0.118	1.000	4.17	4.13	12.5	106	100.0
14	44 Total PFBS	299 > 79.7	6.39e2	3.53e3	0.118		2.96		2.27	9.66	
15	45 Total PFHxS	398.9 > 79.6	7.85e2	2.67e3	0.118		3.52		3.68	17.6	
16	46 Total PFOA	413 > 368.7	1.39e4	3.40e4	0.118		3.65		5.11	42.7	
17	47 Total PFOS	499 > 79.9	0.00e0	5.24e3	0.118		3.89		0.000		
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	4.69e3	0.118		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	4.24e3	0.118		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-75.qld

Last Altered: Thursday, August 03, 2017 14:00:38 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:00:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_75, Date: 28-Jul-2017, Time: 00:54:53, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	639.355	3526.189	2.266	bb	9.7

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.49	784.972	2667.032	3.679	bb	17.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.61	13913.796	34022.535	5.112	bb	42.7

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9			5236.208		MM-I	

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170727M1\170727M1-75.qld

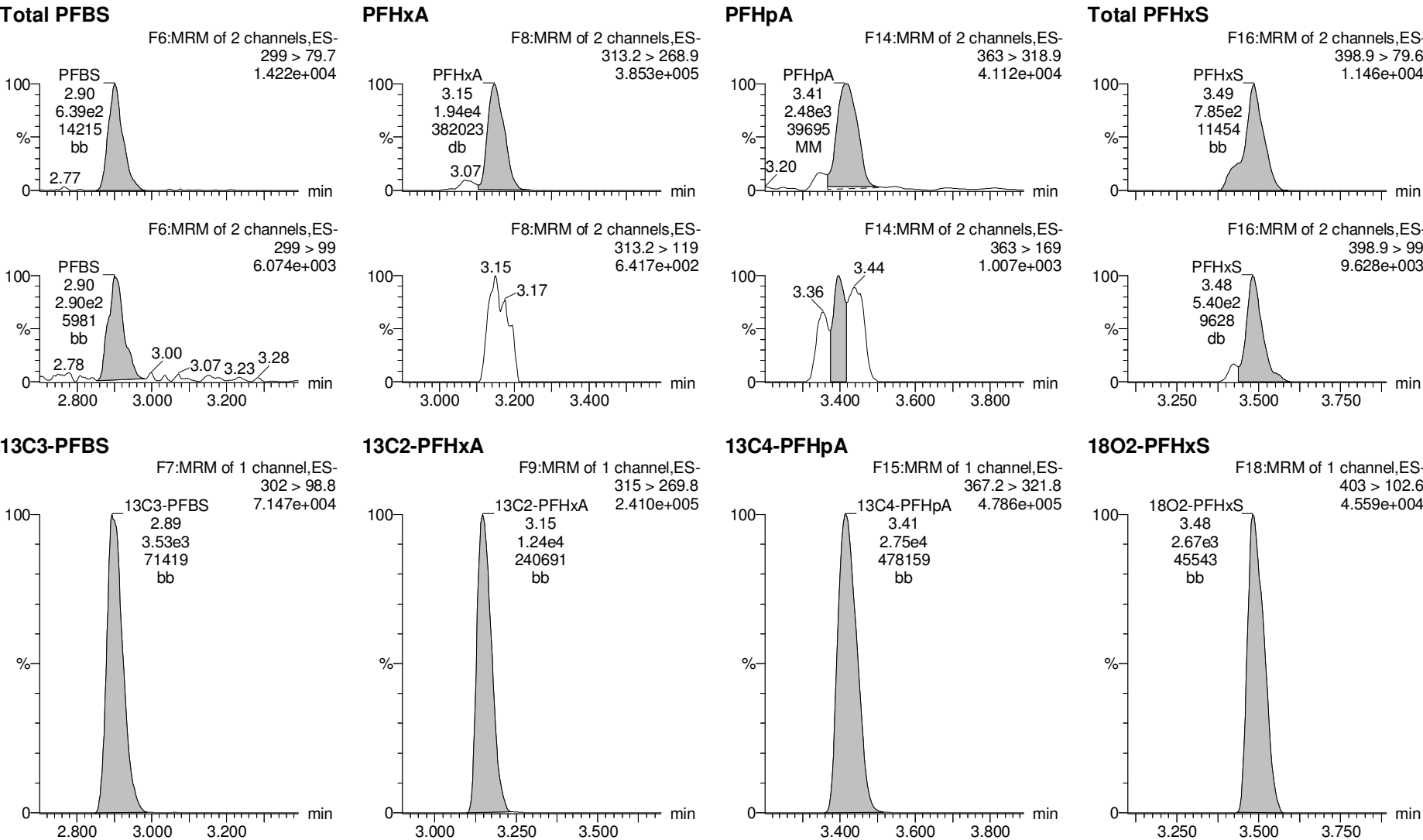
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Printed: Thursday, August 03, 2017 14:00:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_75, Date: 28-Jul-2017, Time: 00:54:53, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712



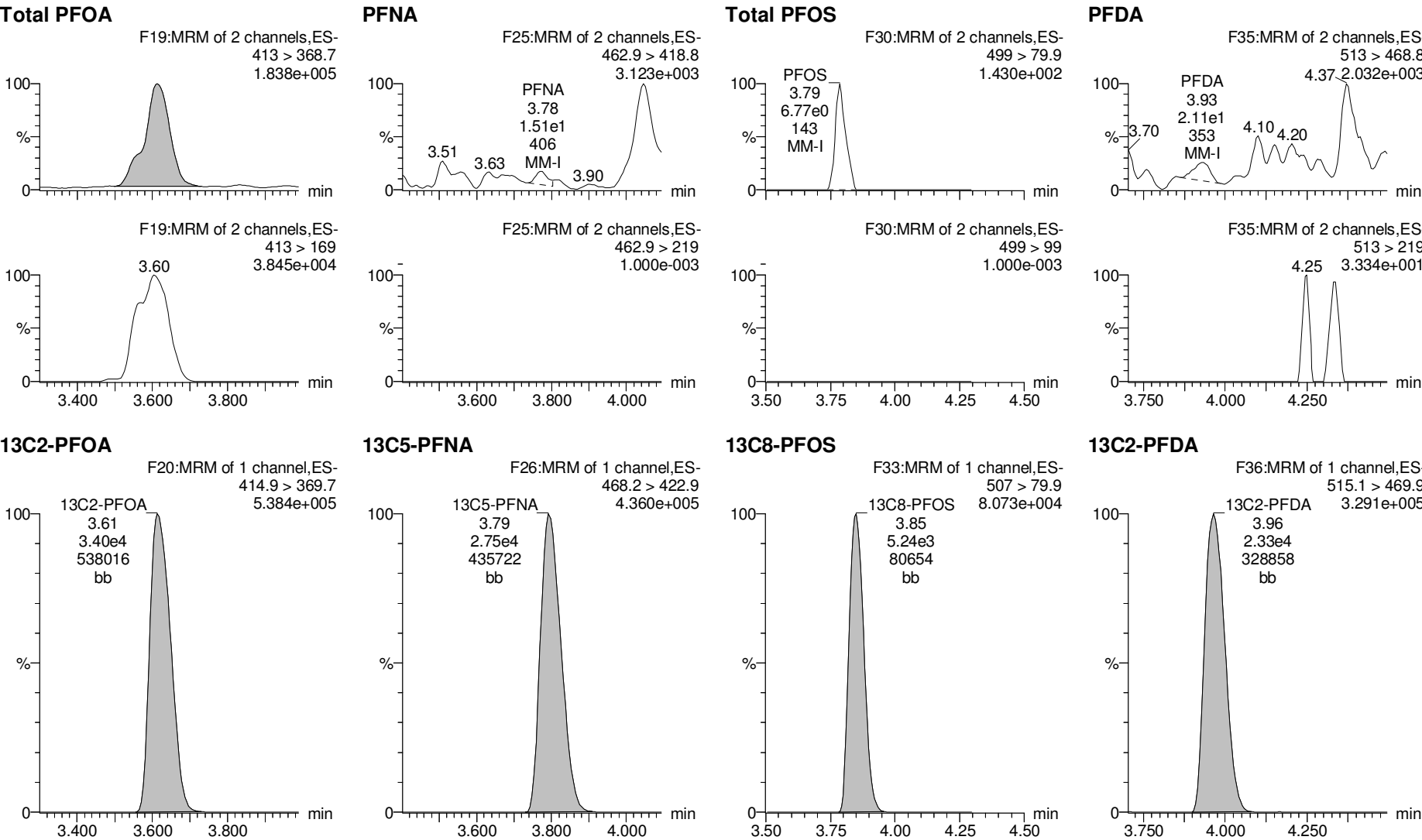
Reviewed: WJL 8/4/2017

Dataset: U:\Q4.PRO\results\170727M1\170727M1-75.qld

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Printed: Thursday, August 03, 2017 14:00:53 Pacific Daylight Time

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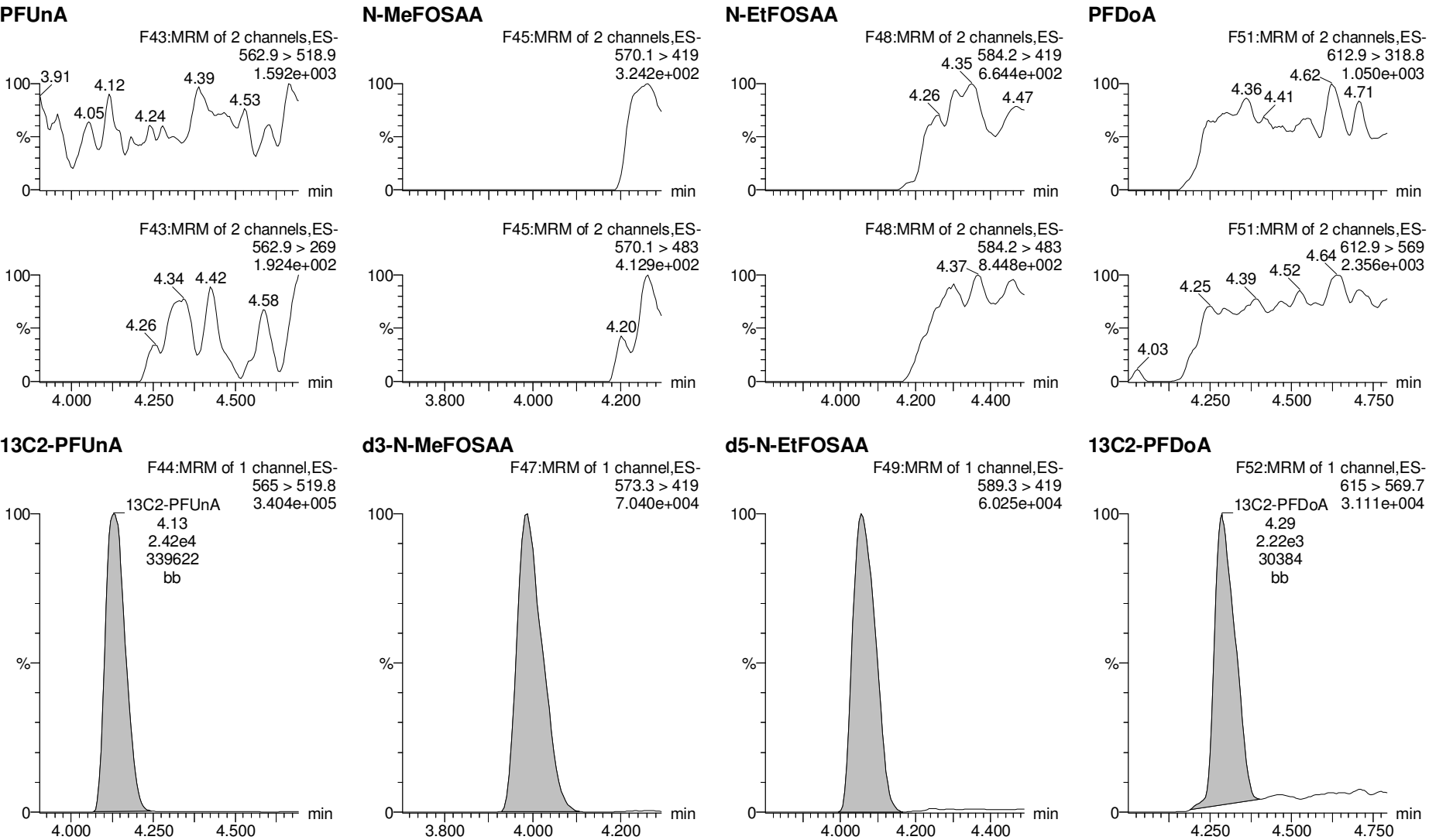


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Printed: Thursday, August 03, 2017 14:00:53 Pacific Daylight Time

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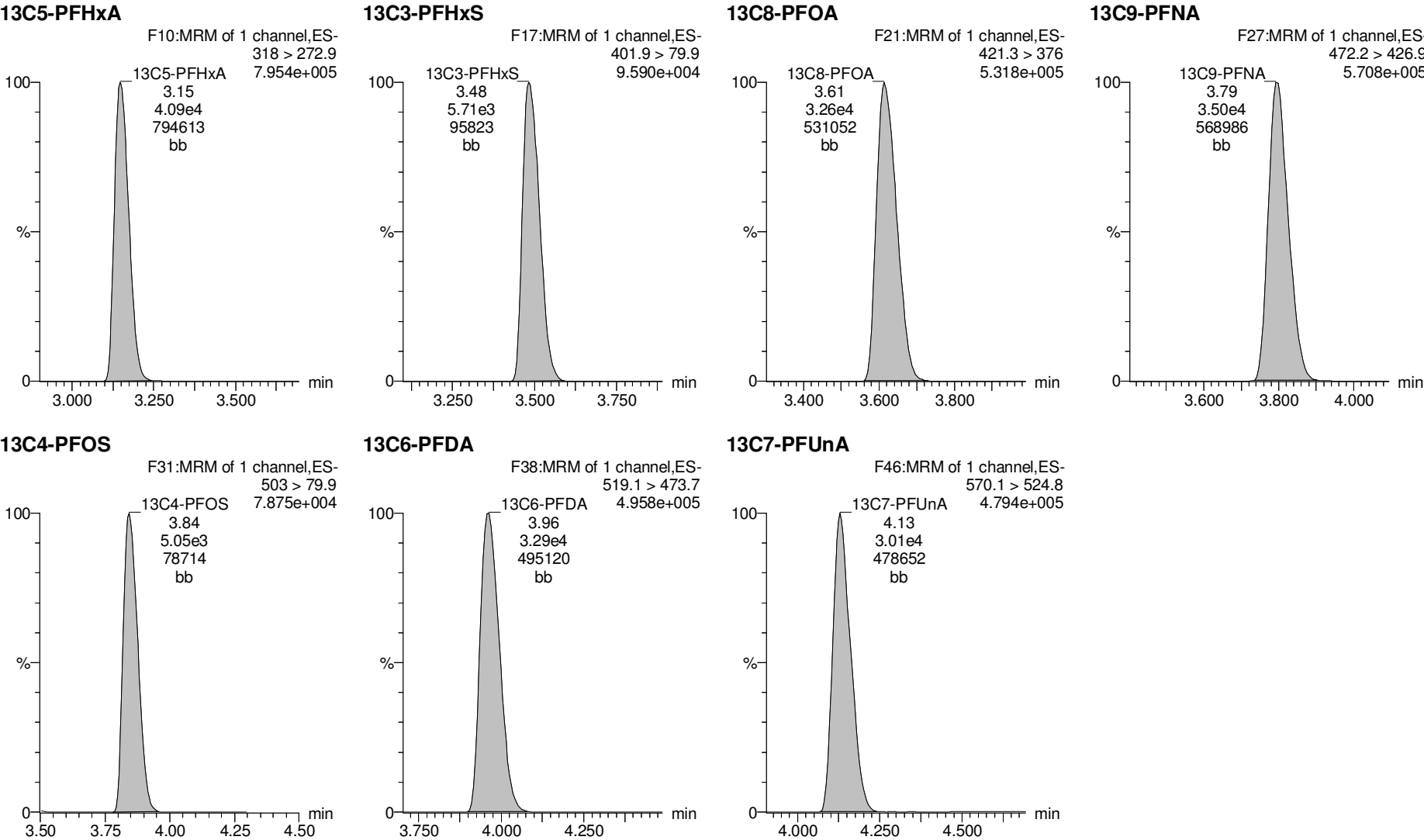
Vista Analytical Laboratory

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Last Altered: Thursday, August 03, 2017 14:00:38 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:00:53 Pacific Daylight Time

Name: 170727M1_75, Date: 28-Jul-2017, Time: 00:54:53, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-26.qld

Last Altered: Wednesday, August 02, 2017 16:13:29 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:13:51 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_26, Date: 31-Jul-2017, Time: 16:48:01, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.29e3	0.1181		4.50				
2	19 PFTeDA	712.9 > 668.8		2.61e3	0.1181		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	2.61e3	1.77e4	0.1181	0.762	4.68	4.65	1.84	20.5	19.3
4	43 13C7-PFUnA	570.1 > 524.8	1.77e4	1.77e4	0.1181	1.000	4.17	4.14	12.5	106	100.0

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Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170731M1\170731M1-26.qld

Last Altered: Wednesday, August 02, 2017 16:13:29 Pacific Daylight Time

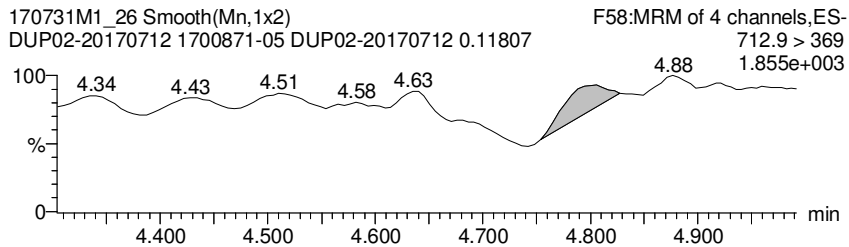
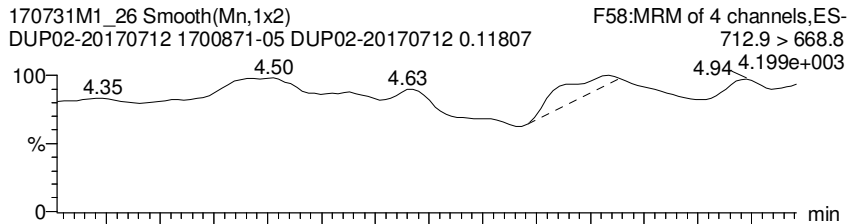
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Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

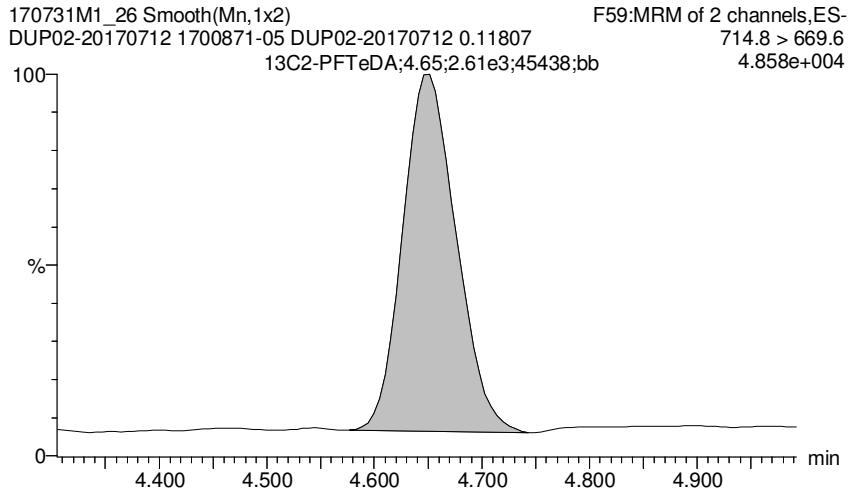
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_26, Date: 31-Jul-2017, Time: 16:48:01, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712

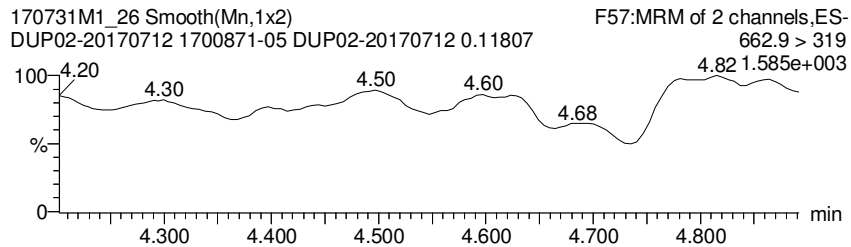
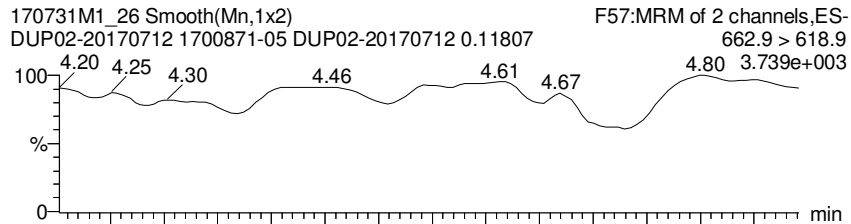
PFTeDA



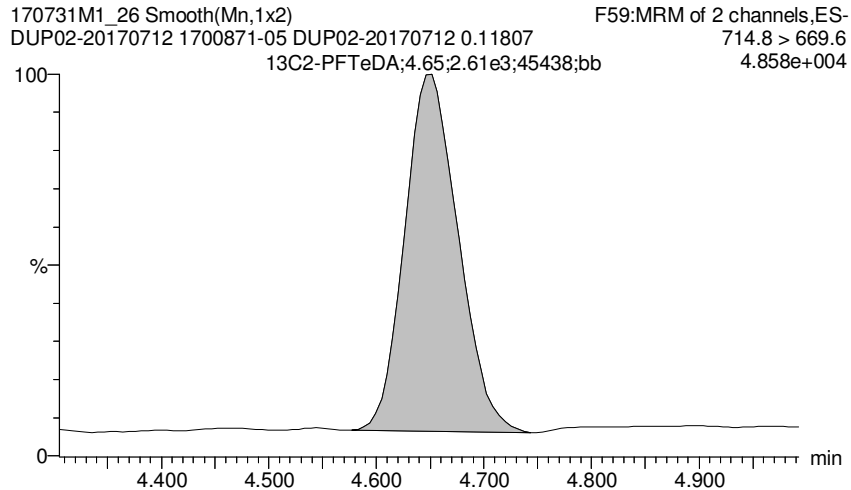
13C2-PFTeDA



PFTrDA



13C2-PFTeDA



Reviewed: WJL 8/4/2017

GM 8/2/17

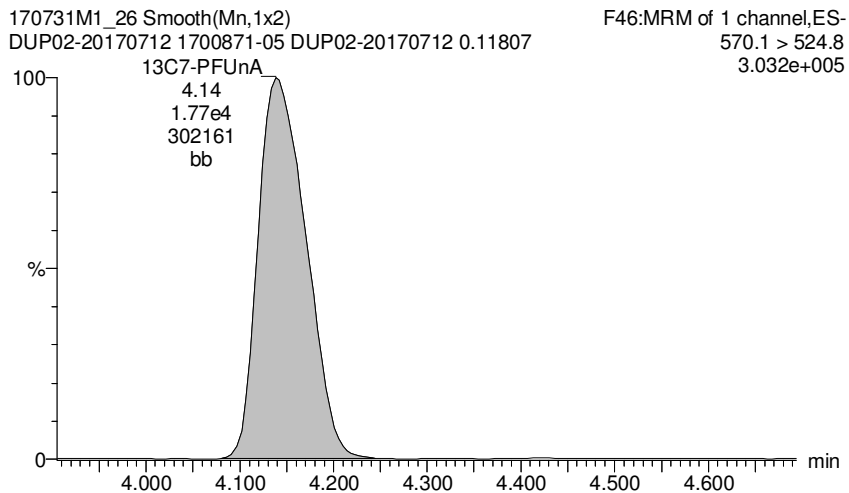
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Last Altered: Wednesday, August 02, 2017 16:13:29 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:13:51 Pacific Daylight Time

Name: 170731M1_26, Date: 31-Jul-2017, Time: 16:48:01, ID: 1700871-05 DUP02-20170712 0.11807, Description: DUP02-20170712

13C7-PFUnA



Dataset: U:\Q4.PRO\results\170727M1\170727M1-76.qld

Last Altered: Thursday, August 03, 2017 14:02:28 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:02:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_76, Date: 28-Jul-2017, Time: 01:05:31, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	1.22e4	3.41e3	0.119		2.96	2.89	44.6	200	
2	4 PFHxA	313.2 > 268.9	1.65e5	1.09e4	0.119		3.19	3.14	75.8	439	
3	5 PFHpA	363 > 318.9	1.94e4	2.57e4	0.119		3.45	3.41	9.45	64.0	
4	6 PFHxS	398.9 > 79.6	9.09e3	2.47e3	0.119		3.56	3.48	45.9	235	
5	7 PFOA	413 > 368.7	2.36e4	3.22e4	0.119		3.65	3.61	9.18	77.6	
6	9 PFNA	462.9 > 418.8		2.64e4	0.119		3.83				
7	11 PFOS	499 > 79.9	1.40e2	5.72e3	0.119		3.89	3.79	0.306	1.88	
8	12 PFDA	513 > 468.8		2.33e4	0.119		4.01				
9	13 N-MeFOSAA	570.1 > 419		5.45e3	0.119		4.03				
10	14 N-EtFOSAA	584.2 > 419		5.19e3	0.119		4.10				
11	15 PFUnA	562.9 > 518.9		2.43e4	0.119		4.11				
12	17 PFDoA	612.9 > 318.8		2.07e3	0.119		4.34				
13	22 13C3-PFBS	302 > 98.8	3.41e3	3.64e4	0.119	0.031	2.96	2.89	0.468	129	122.0
14	23 13C2-PFHxA	315 > 269.8	1.09e4	3.64e4	0.119	0.275	3.19	3.14	1.50	45.9	108.8
15	24 13C4-PFHpA	367.2 > 321.8	2.57e4	3.64e4	0.119	0.260	3.45	3.41	3.53	114	108.5
16	25 18O2-PFHxS	403 > 102.6	2.47e3	5.43e3	0.119	0.402	3.56	3.48	5.70	120	113.4
17	26 13C2-PFOA	414.9 > 369.7	3.22e4	3.03e4	0.119	1.042	3.65	3.61	13.3	108	102.0
18	27 13C5-PFNA	468.2 > 422.9	2.64e4	3.34e4	0.119	0.792	3.83	3.79	9.89	105	99.9

Dataset: U:\Q4.PRO\results\170727M1\170727M1-76.qld

Last Altered: Thursday, August 03, 2017 14:02:28 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:02:53 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_76, Date: 28-Jul-2017, Time: 01:05:31, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	5.72e3	5.29e3	0.119	0.951	3.89	3.84	13.5	120	113.9
2	30 13C2-PFDA	515.1 > 469.9	2.33e4	3.03e4	0.119	0.869	4.01	3.96	9.61	93.3	88.4
3	31 d3-N-MeFOSAA	573.3 > 419	5.45e3	2.91e4	0.119	0.013	4.03	3.98	2.34	1530	111.5
4	32 d5-N-EtFOSAA	589.3 > 419	5.19e3	2.91e4	0.119	0.013	4.12	4.05	2.23	1480	108.1
5	33 13C2-PFUnA	565 > 519.8	2.43e4	2.91e4	0.119	0.928	4.17	4.12	10.5	95.0	90.1
6	34 13C2-PFDoA	615 > 569.7	2.07e3	2.91e4	0.119	0.071	4.34	4.28	0.892	106	100.4
7	37 13C5-PFHxA	318 > 272.9	3.64e4	3.64e4	0.119	1.000	3.19	3.14	5.00	42.2	100.0
8	38 13C3-PFHxS	401.9 > 79.9	5.43e3	5.43e3	0.119	1.000	3.56	3.48	12.5	105	100.0
9	39 13C8-PFOA	421.3 > 376	3.03e4	3.03e4	0.119	1.000	3.65	3.61	12.5	105	100.0
10	40 13C9-PFNA	472.2 > 426.9	3.34e4	3.34e4	0.119	1.000	3.83	3.79	12.5	105	100.0
11	41 13C4-PFOS	503 > 79.9	5.29e3	5.29e3	0.119	1.000	3.89	3.84	12.5	105	100.0
12	42 13C6-PFDA	519.1 > 473.7	3.03e4	3.03e4	0.119	1.000	4.01	3.95	12.5	105	100.0
13	43 13C7-PFUnA	570.1 > 524.8	2.91e4	2.91e4	0.119	1.000	4.17	4.12	12.5	105	100.0
14	44 Total PFBS	299 > 79.7	1.22e4	3.41e3	0.119		2.96		44.6	200	
15	45 Total PFHxS	398.9 > 79.6	9.09e3	2.47e3	0.119		3.52		45.9	235	
16	46 Total PFOA	413 > 368.7	2.36e4	3.22e4	0.119		3.65		9.18	77.6	
17	47 Total PFOS	499 > 79.9	1.40e2	5.72e3	0.119		3.89		0.306	1.88	
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	5.45e3	0.119		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	5.19e3	0.119		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-76.qld

Last Altered: Thursday, August 03, 2017 14:02:28 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:02:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_76, Date: 28-Jul-2017, Time: 01:05:31, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.89	12158.621	3405.706	44.626	bb	199.8

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.48	9085.771	2473.284	45.920	MM	234.9

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.61	23618.820	32156.020	9.181	bb	77.6

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.79	140.086	5724.322	0.306	bb	1.9

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			5191.702		MM-I	

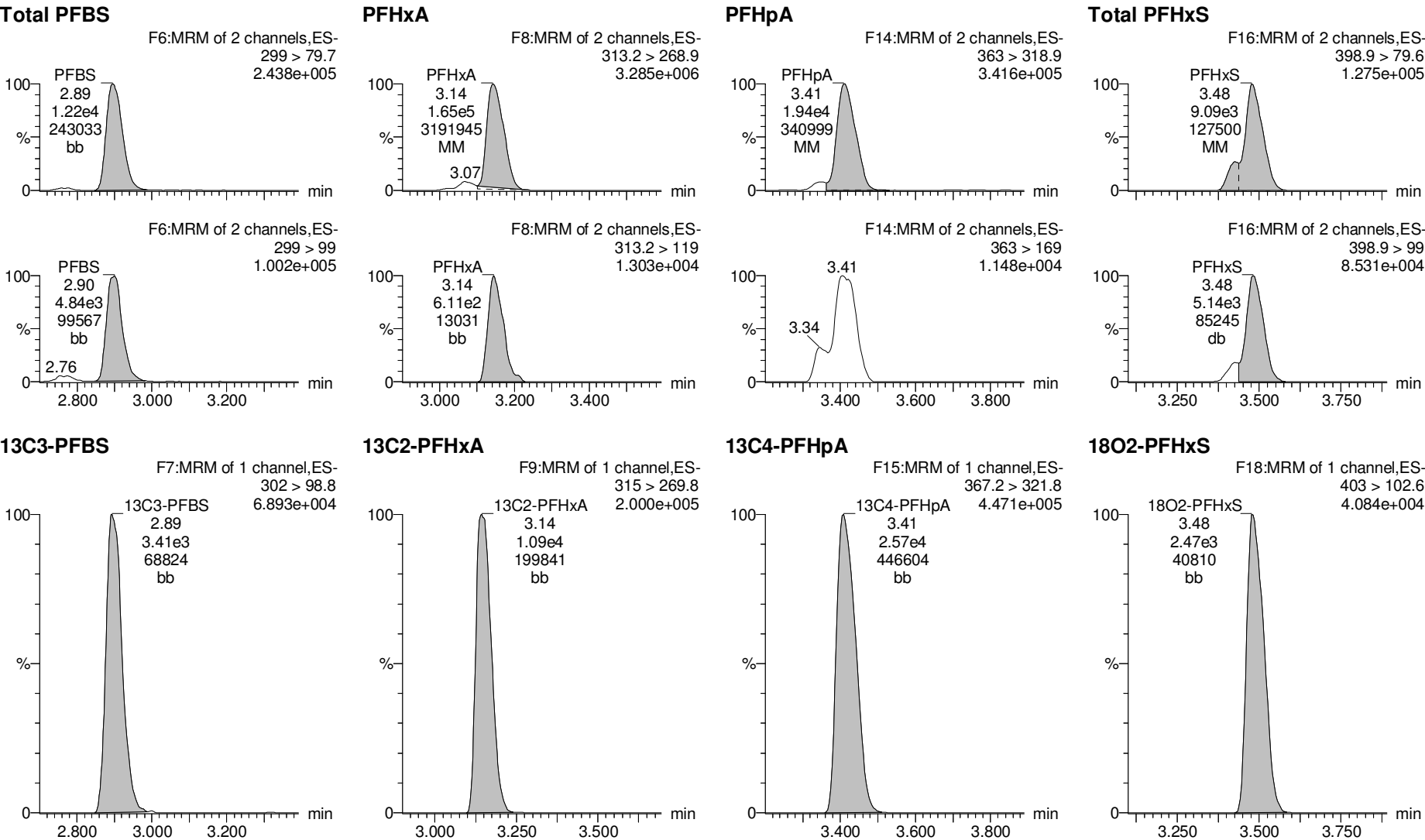
Vista Analytical Laboratory

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Printed: Thursday, August 03, 2017 14:02:42 Pacific Daylight Time

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Name: 170727M1_76, Date: 28-Jul-2017, Time: 01:05:31, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712



13C3-PFBS

F7:MRM of 1 channel,ES-
302 > 98.8
6.893e+004

13C3-PFBS
2.89
3.41e3
68824
bb

13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
2.000e+005

13C2-PFHxA
3.14
1.09e4
199841
bb

13C4-PFHpA

F15:MRM of 1 channel,ES-
367.2 > 321.8
4.471e+005

13C4-PFHpA
3.41
2.57e4
446604
bb

18O2-PFHxS

F18:MRM of 1 channel,ES-
403 > 102.6
4.084e+004

18O2-PFHxS
3.48
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40810
bb

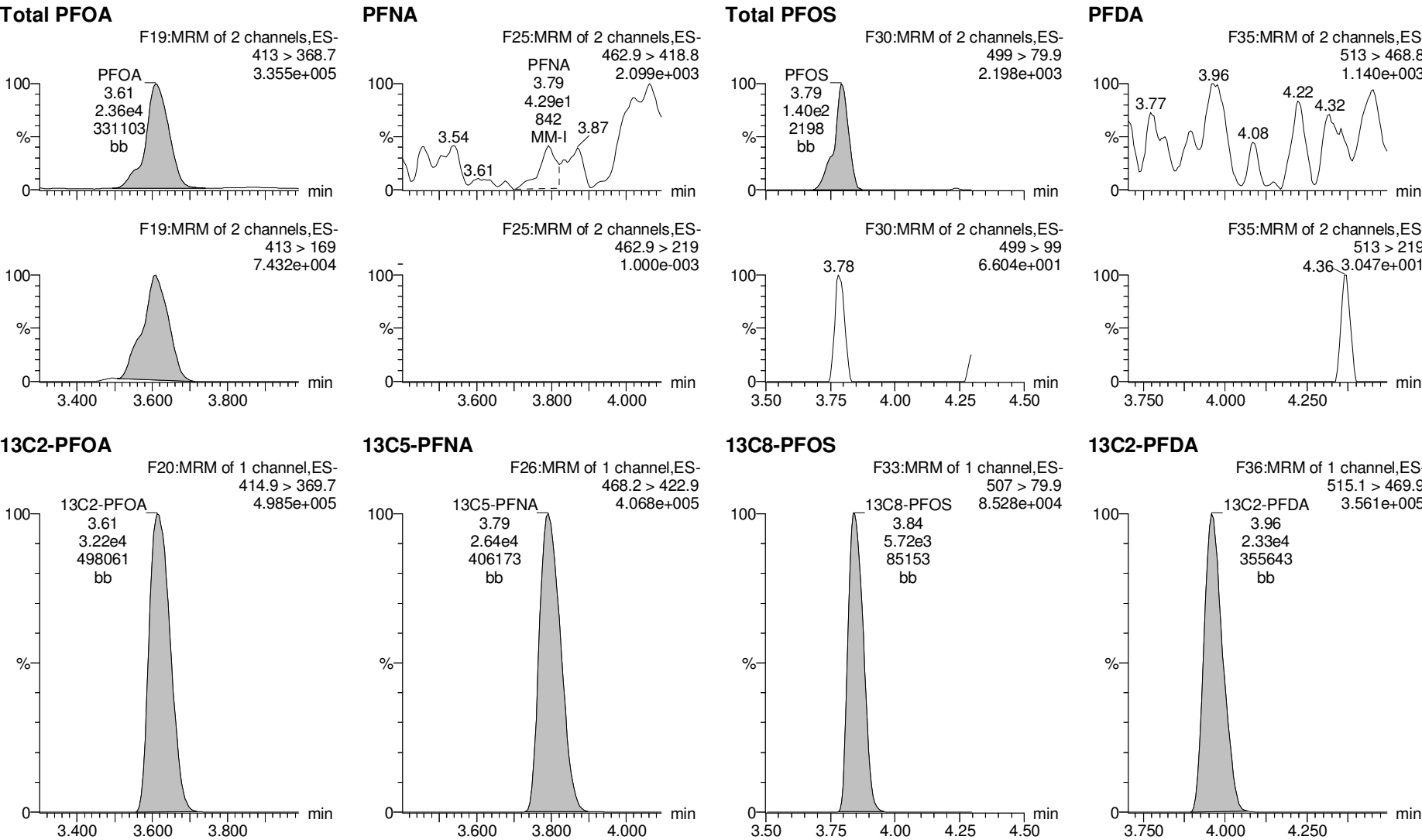
Reviewed: WJL 8/4/2017

Vista Analytical Laboratory

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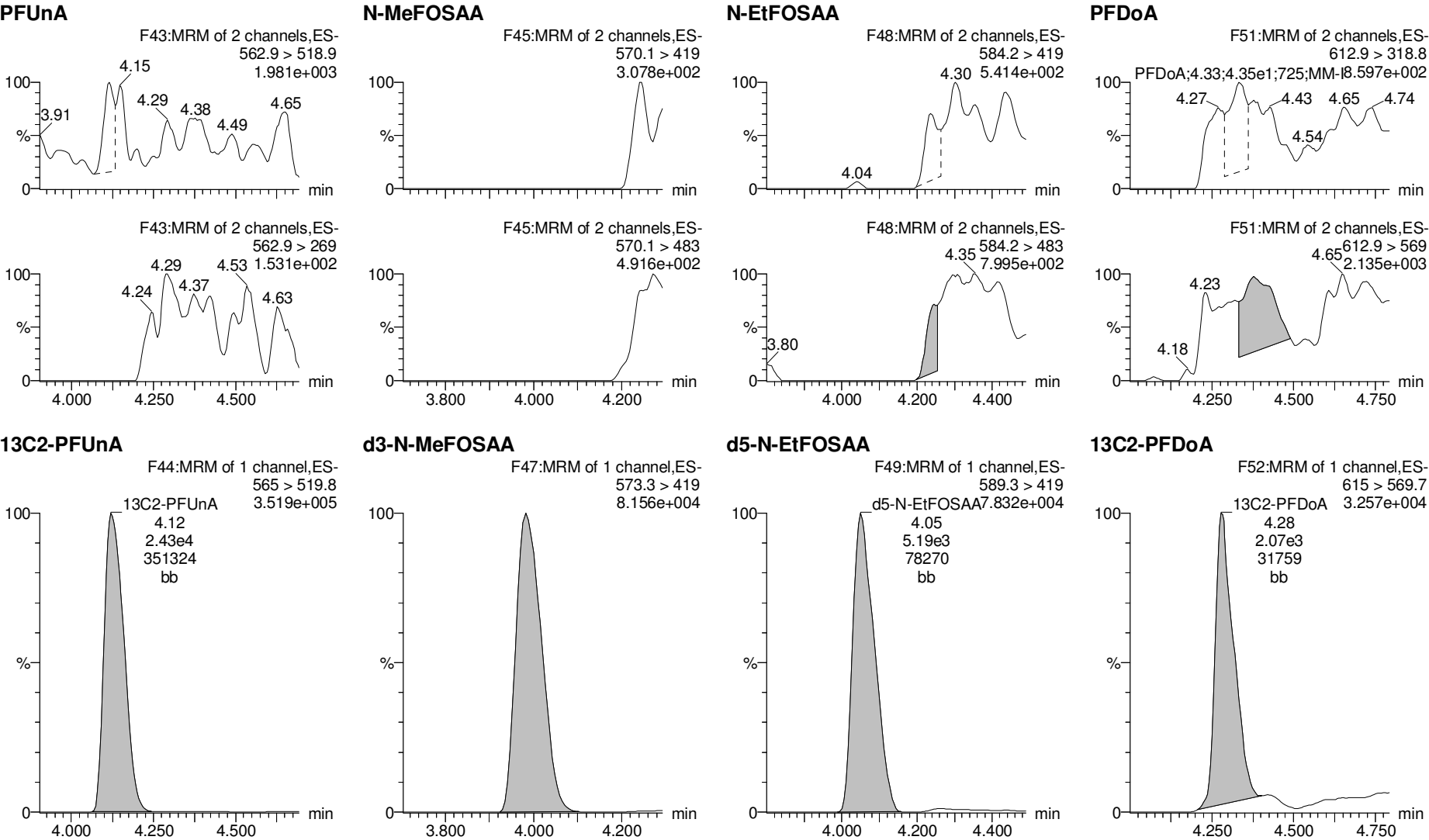


Vista Analytical Laboratory

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Name: 170727M1_76, Date: 28-Jul-2017, Time: 01:05:31, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712

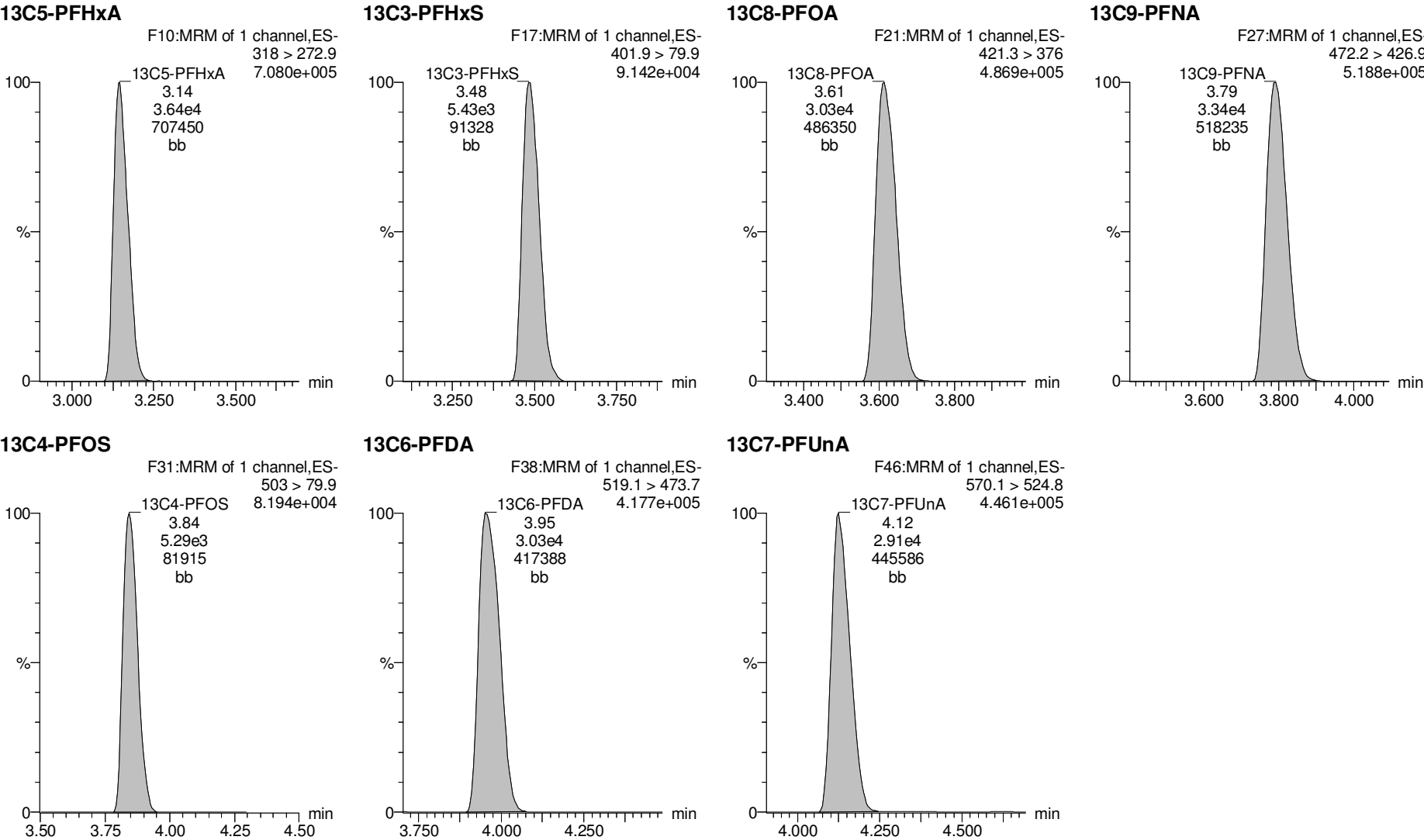


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Printed: Thursday, August 03, 2017 14:02:42 Pacific Daylight Time

Name: 170727M1_76, Date: 28-Jul-2017, Time: 01:05:31, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-27.qld

Last Altered: Wednesday, August 02, 2017 16:14:47 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:15:01 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_27, Date: 31-Jul-2017, Time: 16:58:39, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.91e3	0.1185		4.50				
2	19 PFTeDA	712.9 > 668.8		1.05e4	0.1185		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	1.05e4	2.36e4	0.1185	0.762	4.68	4.65	5.57	61.6	58.4
4	43 13C7-PFUnA	570.1 > 524.8	2.36e4	2.36e4	0.1185	1.000	4.17	4.14	12.5	105	100.0

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170731M1\170731M1-27.qld

Last Altered: Wednesday, August 02, 2017 16:14:47 Pacific Daylight Time

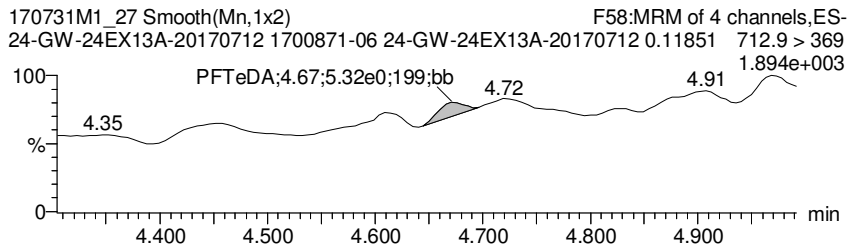
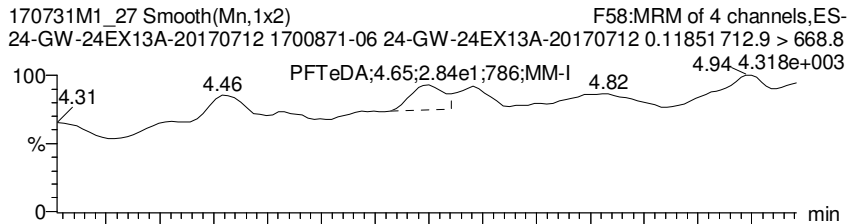
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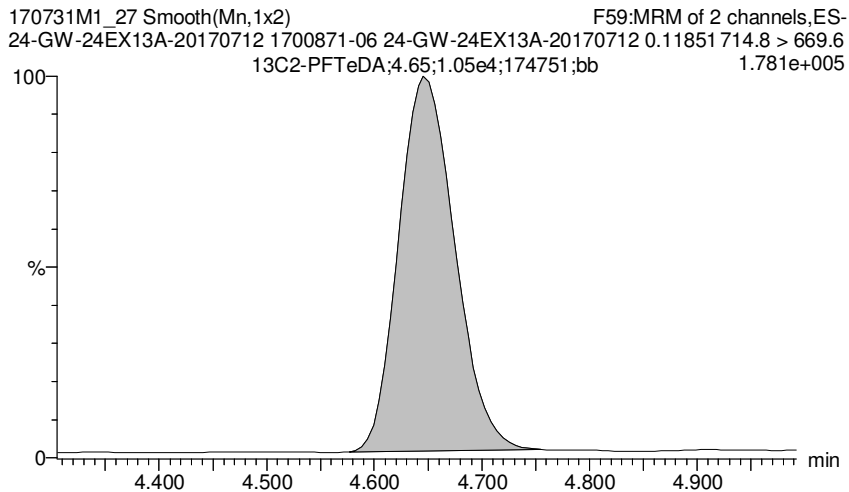
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_27, Date: 31-Jul-2017, Time: 16:58:39, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712

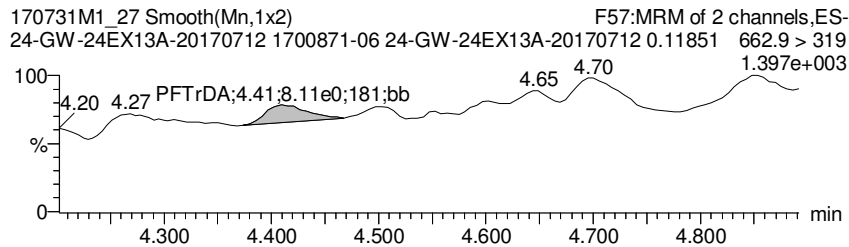
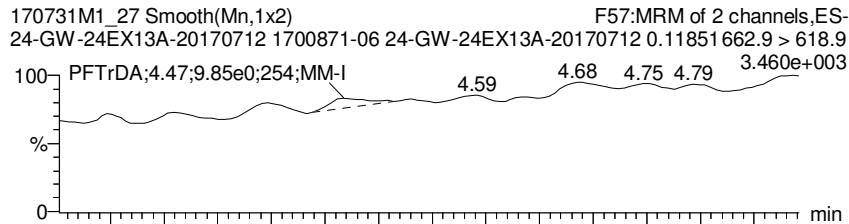
PFTeDA



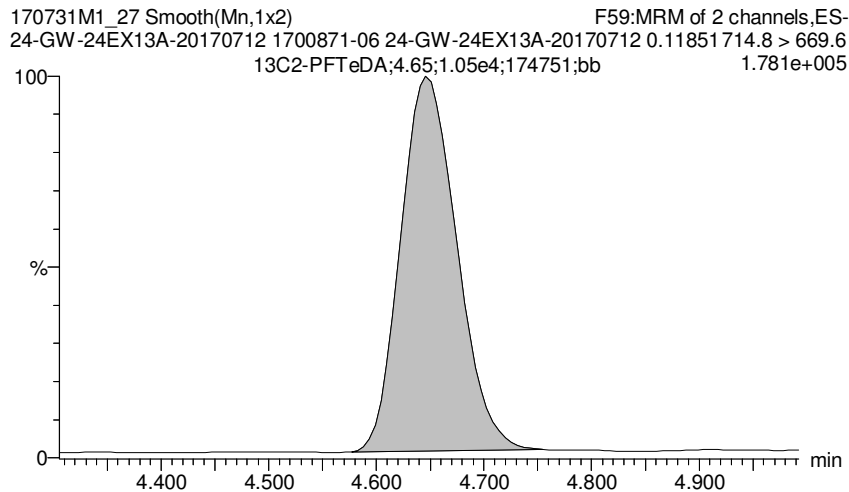
13C2-PFTeDA



PFTrDA



13C2-PFTeDA

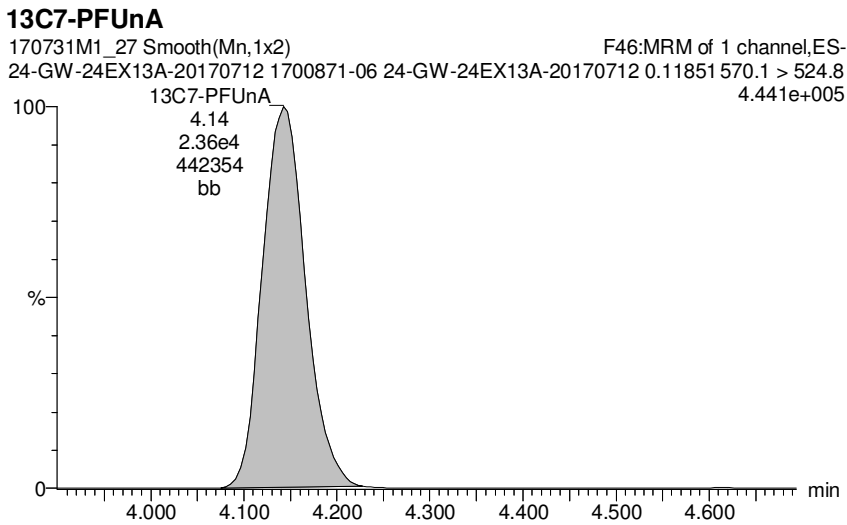


Dataset: U:\Q4.PRO\results\170731M1\170731M1-27.qld

Last Altered: Wednesday, August 02, 2017 16:14:47 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:15:01 Pacific Daylight Time

Name: 170731M1_27, Date: 31-Jul-2017, Time: 16:58:39, ID: 1700871-06 24-GW-24EX13A-20170712 0.11851, Description: 24-GW-24EX13A-20170712



Dataset: U:\Q4.PRO\results\170727M1\170727M1-77.qld

Last Altered: Thursday, August 03, 2017 14:04:11 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:04:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_77, Date: 28-Jul-2017, Time: 01:16:10, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	1.99e3	2.93e3	0.119		2.96	2.90	8.50	37.4	
2	4 PFHxA	313.2 > 268.9	4.62e4	9.48e3	0.119		3.19	3.14	24.4	140	
3	5 PFHpA	363 > 318.9	5.48e3	2.21e4	0.119		3.45	3.41	3.11	20.4	
4	6 PFHxS	398.9 > 79.6	2.24e3	1.98e3	0.119		3.56	3.47	14.1	70.8	
5	7 PFOA	413 > 368.7	3.88e4	2.92e4	0.119		3.65	3.61	16.6	141	
6	9 PFNA	462.9 > 418.8		2.45e4	0.119		3.83				
7	11 PFOS	499 > 79.9	3.53e1	4.82e3	0.119		3.89	3.77	0.0917	0.195	
8	12 PFDA	513 > 468.8		2.29e4	0.119		4.01				
9	13 N-MeFOSAA	570.1 > 419		4.78e3	0.119		4.03				
10	14 N-EtFOSAA	584.2 > 419		4.60e3	0.119		4.10				
11	15 PFUnA	562.9 > 518.9		2.34e4	0.119		4.11				
12	17 PFDoA	612.9 > 318.8		2.34e3	0.119		4.34				
13	22 13C3-PFBS	302 > 98.8	2.93e3	3.23e4	0.119	0.031	2.96	2.89	0.454	124	118.3
14	23 13C2-PFHxA	315 > 269.8	9.48e3	3.23e4	0.119	0.275	3.19	3.15	1.47	44.7	106.7
15	24 13C4-PFHpA	367.2 > 321.8	2.21e4	3.23e4	0.119	0.260	3.45	3.41	3.42	110	105.2
16	25 18O2-PFHxS	403 > 102.6	1.98e3	5.04e3	0.119	0.402	3.56	3.48	4.92	102	97.8
17	26 13C2-PFOA	414.9 > 369.7	2.92e4	2.67e4	0.119	1.042	3.65	3.61	13.6	110	104.8
18	27 13C5-PFNA	468.2 > 422.9	2.45e4	2.72e4	0.119	0.792	3.83	3.79	11.3	119	114.0

Dataset: U:\Q4.PRO\results\170727M1\170727M1-77.qld

Last Altered: Thursday, August 03, 2017 14:04:11 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:04:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_77, Date: 28-Jul-2017, Time: 01:16:10, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	4.82e3	4.73e3	0.119	0.951	3.89	3.84	12.7	112	107.2
2	30 13C2-PFDA	515.1 > 469.9	2.29e4	3.04e4	0.119	0.869	4.01	3.96	9.42	90.8	86.7
3	31 d3-N-MeFOSAA	573.3 > 419	4.78e3	2.72e4	0.119	0.013	4.03	3.98	2.20	1430	104.7
4	32 d5-N-EtFOSAA	589.3 > 419	4.60e3	2.72e4	0.119	0.013	4.12	4.05	2.12	1400	102.4
5	33 13C2-PFUnA	565 > 519.8	2.34e4	2.72e4	0.119	0.928	4.17	4.12	10.8	97.3	92.9
6	34 13C2-PFDoA	615 > 569.7	2.34e3	2.72e4	0.119	0.071	4.34	4.28	1.08	127	121.3
7	37 13C5-PFHxA	318 > 272.9	3.23e4	3.23e4	0.119	1.000	3.19	3.14	5.00	41.9	100.0
8	38 13C3-PFHxS	401.9 > 79.9	5.04e3	5.04e3	0.119	1.000	3.56	3.48	12.5	105	100.0
9	39 13C8-PFOA	421.3 > 376	2.67e4	2.67e4	0.119	1.000	3.65	3.61	12.5	105	100.0
10	40 13C9-PFNA	472.2 > 426.9	2.72e4	2.72e4	0.119	1.000	3.83	3.79	12.5	105	100.0
11	41 13C4-PFOS	503 > 79.9	4.73e3	4.73e3	0.119	1.000	3.89	3.84	12.5	105	100.0
12	42 13C6-PFDA	519.1 > 473.7	3.04e4	3.04e4	0.119	1.000	4.01	3.96	12.5	105	100.0
13	43 13C7-PFUnA	570.1 > 524.8	2.72e4	2.72e4	0.119	1.000	4.17	4.12	12.5	105	100.0
14	44 Total PFBS	299 > 79.7	1.99e3	2.93e3	0.119		2.96		8.50	37.4	
15	45 Total PFHxS	398.9 > 79.6	2.24e3	1.98e3	0.119		3.52		14.1	70.8	
16	46 Total PFOA	413 > 368.7	3.88e4	2.92e4	0.119		3.65		16.6	141	
17	47 Total PFOS	499 > 79.9	3.53e1	4.82e3	0.119		3.89		0.0917	0.195	
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	4.78e3	0.119		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	4.60e3	0.119		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-77.qld

Last Altered: Thursday, August 03, 2017 14:04:11 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:04:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_77, Date: 28-Jul-2017, Time: 01:16:10, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	1994.070	2931.092	8.504	bb	37.4

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.47	2241.158	1983.215	14.126	MM	70.8

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.61	38815.676	29180.264	16.628	bb	140.9

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.77	35.336	4816.934	0.092	MM	0.2

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419			4784.382		MM-I	

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

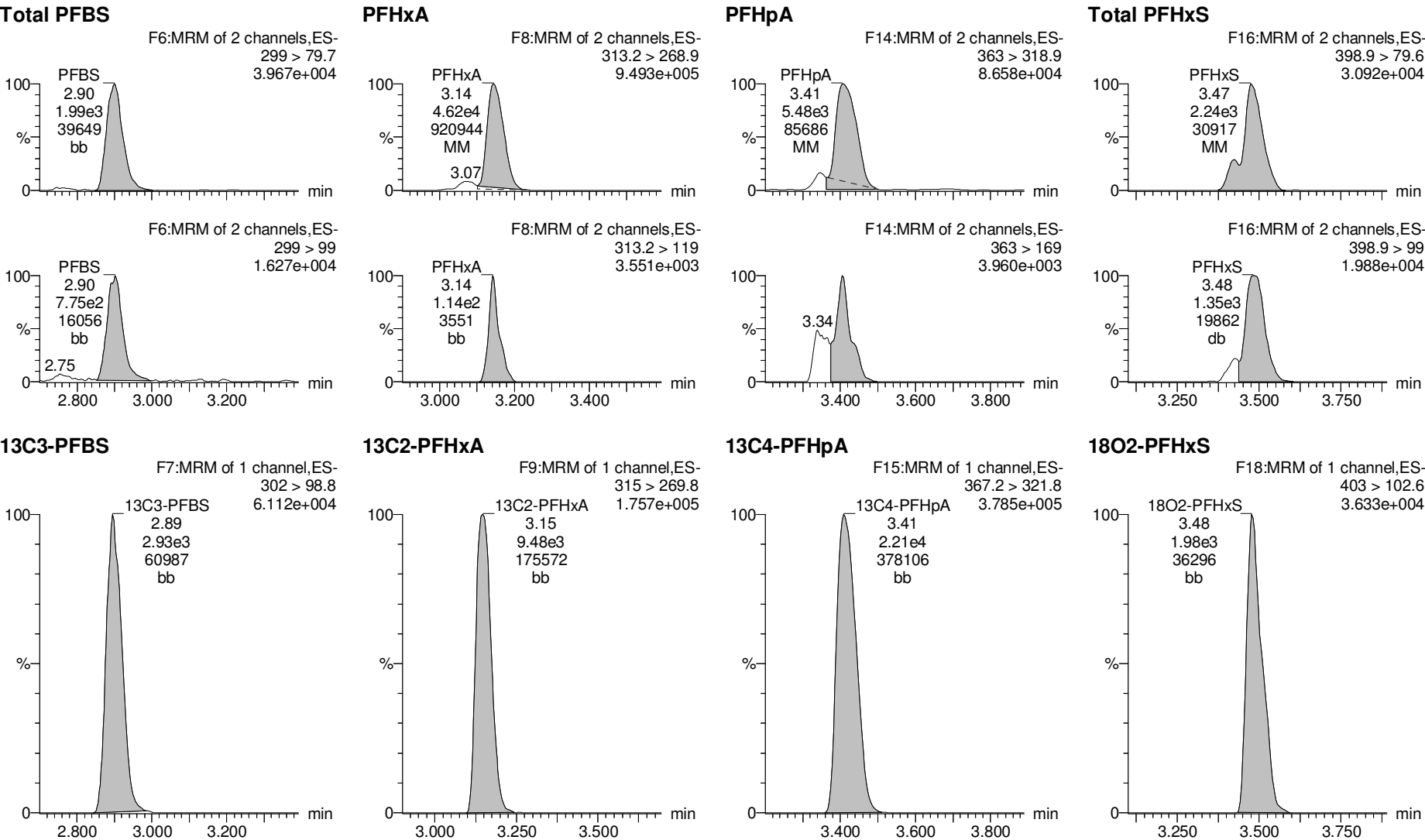
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170727M1\170727M1-77.qld

Last Altered: Thursday, August 03, 2017 14:04:11 Pacific Daylight Time
Printed: Thursday, August 03, 2017 14:04:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_77, Date: 28-Jul-2017, Time: 01:16:10, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712



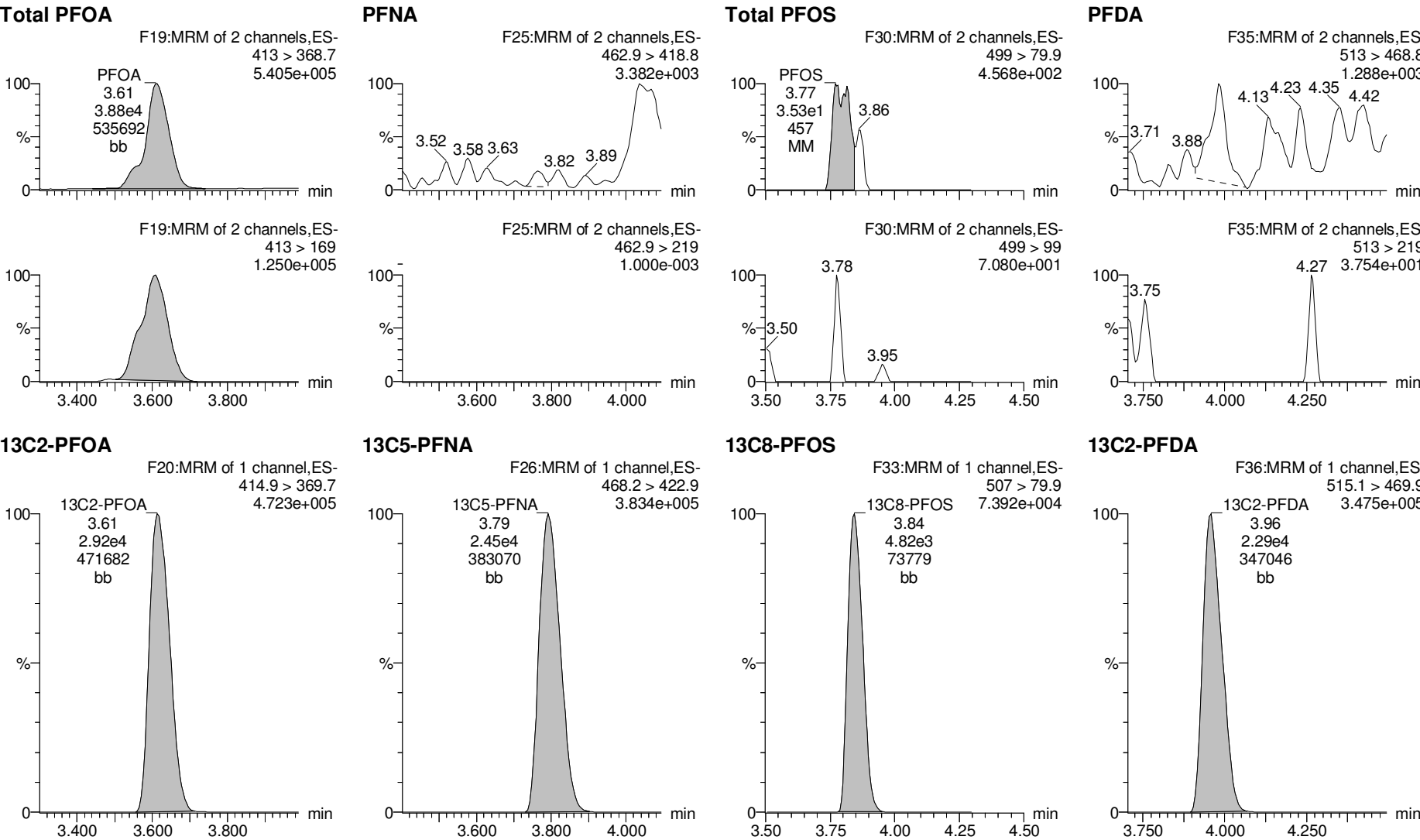
Reviewed: WJL 8/4/2017

Dataset: U:\Q4.PRO\results\170727M1\170727M1-77.qld

Last Altered: Thursday, August 03, 2017 14:04:11 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:04:26 Pacific Daylight Time

Name: 170727M1_77, Date: 28-Jul-2017, Time: 01:16:10, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712

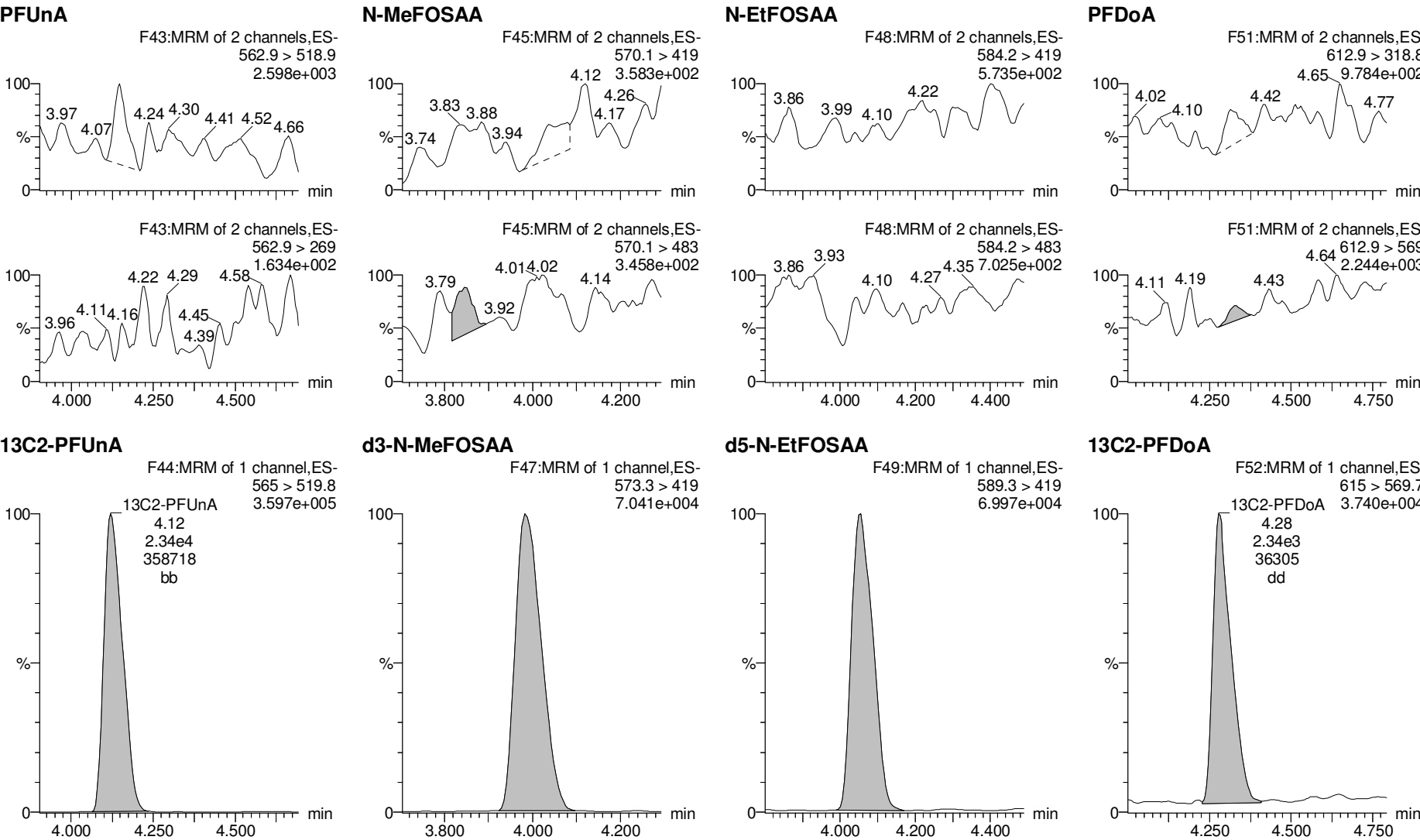


Dataset: U:\Q4.PRO\results\170727M1\170727M1-77.qld

Last Altered: Thursday, August 03, 2017 14:04:11 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:04:26 Pacific Daylight Time

Name: 170727M1_77, Date: 28-Jul-2017, Time: 01:16:10, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712



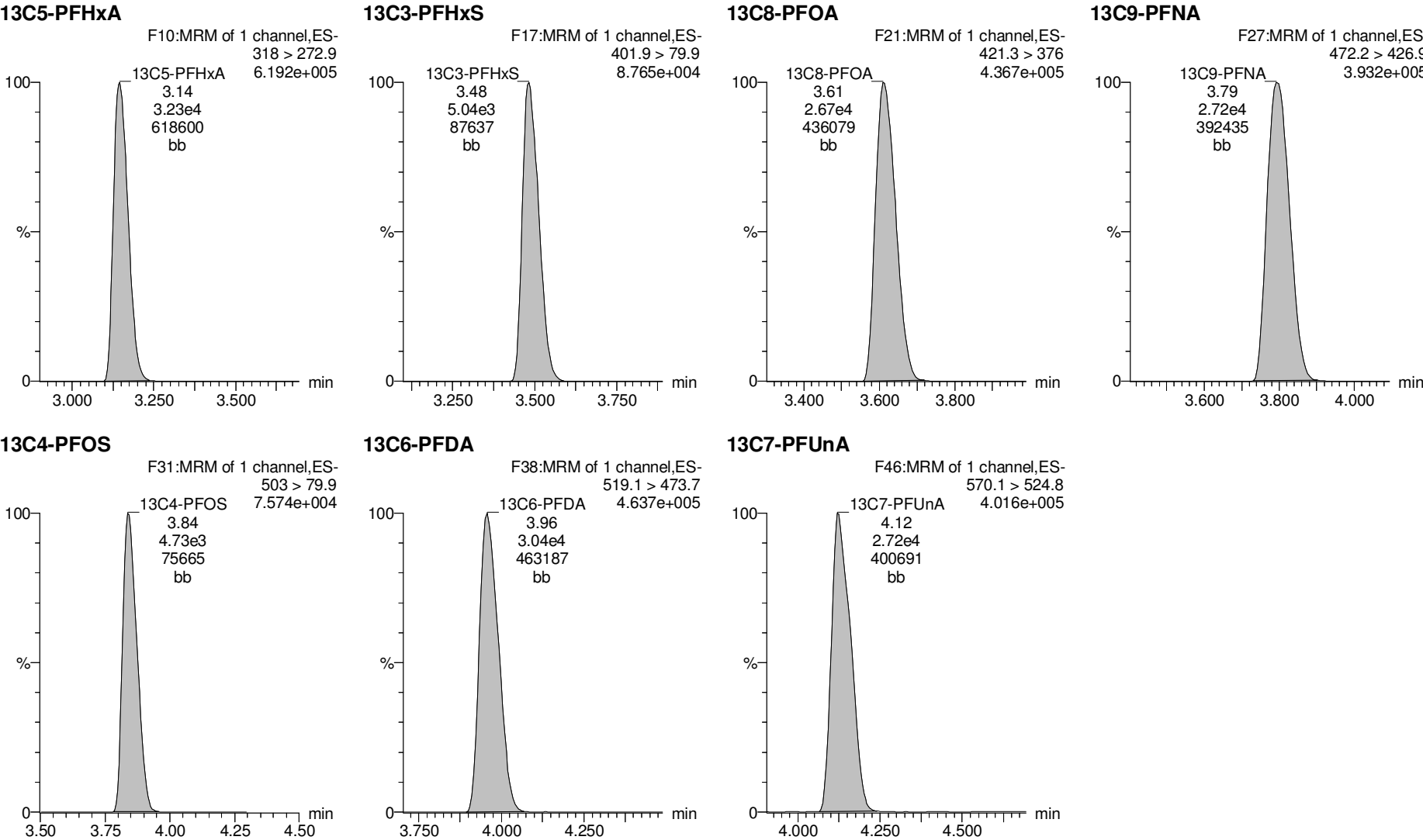
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170727M1\170727M1-77.qld

Last Altered: Thursday, August 03, 2017 14:04:11 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:04:26 Pacific Daylight Time

Name: 170727M1_77, Date: 28-Jul-2017, Time: 01:16:10, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-28.qld

Last Altered: Wednesday, August 02, 2017 16:16:15 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:16:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_28, Date: 31-Jul-2017, Time: 17:09:26, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.57e3	0.1193		4.50				
2	19 PFTeDA	712.9 > 668.8		9.98e3	0.1193		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	9.98e3	2.20e4	0.1193	0.762	4.68	4.65	5.67	62.4	59.6
4	43 13C7-PFUnA	570.1 > 524.8	2.20e4	2.20e4	0.1193	1.000	4.17	4.14	12.5	105	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-28.qld

Last Altered: Wednesday, August 02, 2017 16:16:15 Pacific Daylight Time

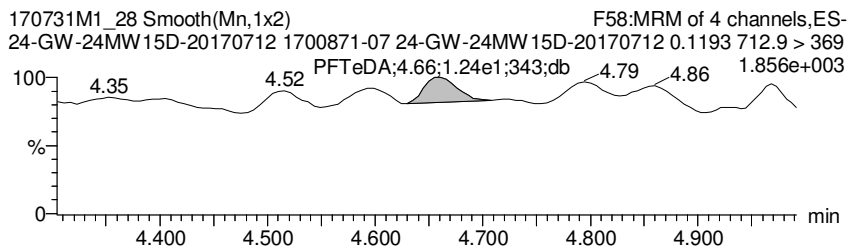
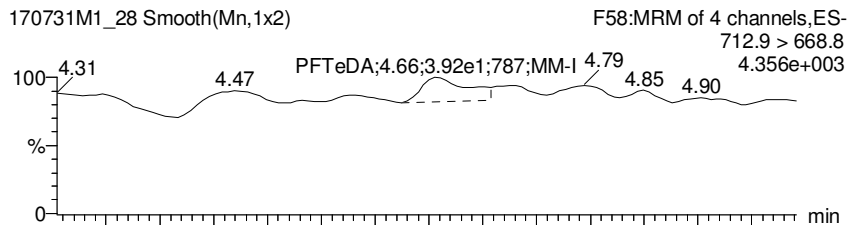
Printed: Wednesday, August 02, 2017 16:16:50 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

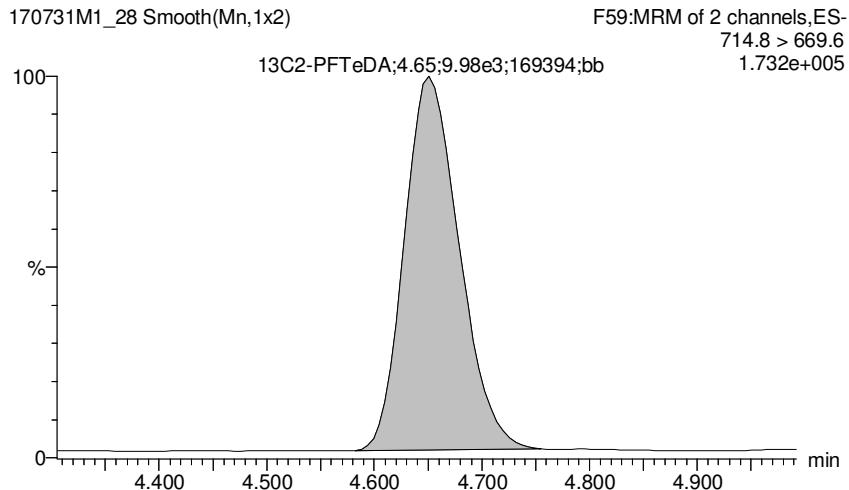
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_28, Date: 31-Jul-2017, Time: 17:09:26, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712

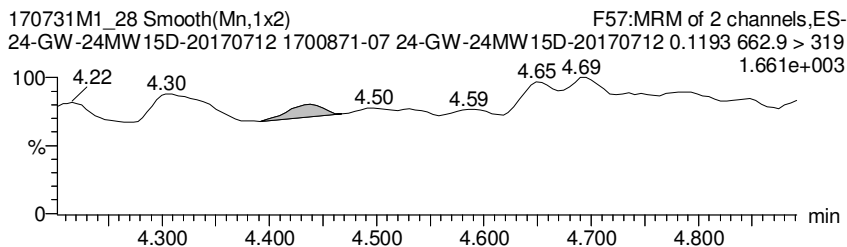
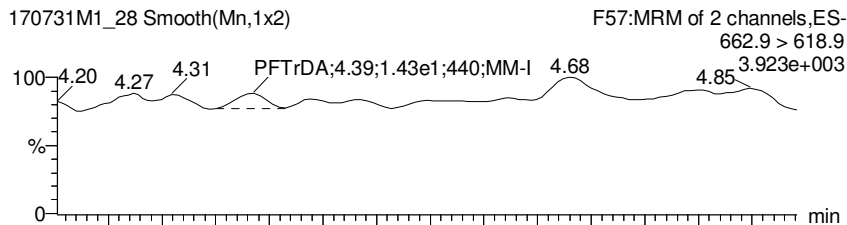
PFTeDA



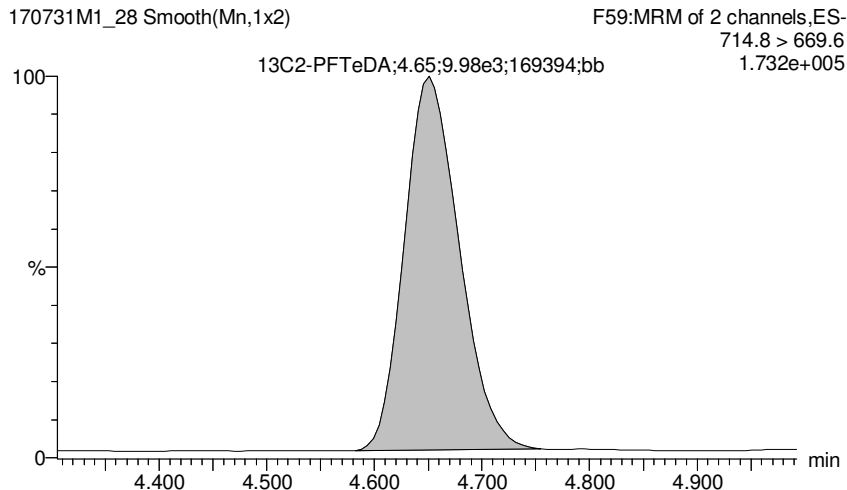
13C2-PFTeDA



PFTrDA



13C2-PFTeDA



Reviewed: WJL 8/4/2017

GM 8/2/17

Dataset: U:\Q4.PRO\results\170731M1\170731M1-28.qld

Last Altered: Wednesday, August 02, 2017 16:16:15 Pacific Daylight Time

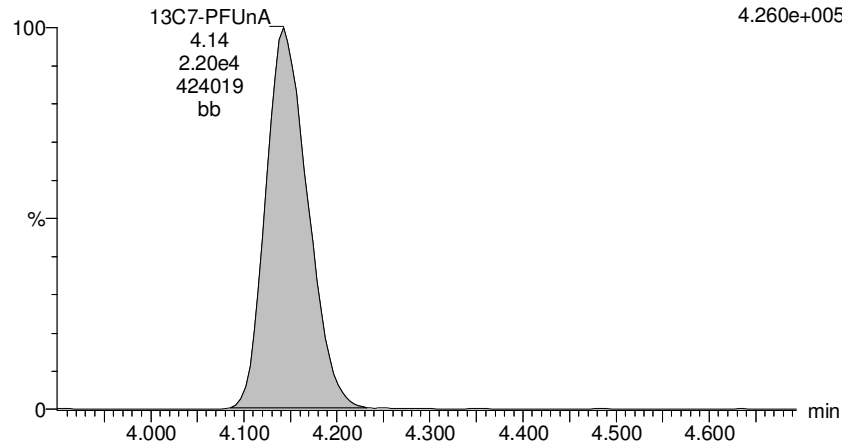
Printed: Wednesday, August 02, 2017 16:16:50 Pacific Daylight Time

Name: 170731M1_28, Date: 31-Jul-2017, Time: 17:09:26, ID: 1700871-07 24-GW-24MW15D-20170712 0.1193, Description: 24-GW-24MW15D-20170712

13C7-PFUnA

170731M1_28 Smooth(Mn,1x2)

F46:MRM of 1 channel,ES-
570.1 > 524.8
4.260e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-81.qld

Last Altered: Thursday, August 03, 2017 14:05:57 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:06:19 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_81, Date: 28-Jul-2017, Time: 01:58:51, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	3.11e4	1.16e4	0.119		2.96	2.90	33.4	149	
2	4 PFHxA	313.2 > 268.9	5.51e5	3.94e4	0.119		3.19	3.15	70.0	404	
3	5 PFHpA	363 > 318.9	1.87e3	9.63e4	0.119		3.45	3.41	0.243	0.887	
4	6 PFHxS	398.9 > 79.6	2.11e2	9.25e3	0.119		3.56	3.50	0.285	0.0391	
5	7 PFOA	413 > 368.7		1.22e5	0.119		3.65				
6	9 PFNA	462.9 > 418.8		1.00e5	0.119		3.83				
7	11 PFOS	499 > 79.9	4.39e1	2.09e4	0.119		3.89	3.85	0.0262		
8	12 PFDA	513 > 468.8		1.00e5	0.119		4.01				
9	13 N-MeFOSAA	570.1 > 419		2.16e4	0.119		4.03				
10	14 N-EtFOSAA	584.2 > 419		2.17e4	0.119		4.10				
11	15 PFUnA	562.9 > 518.9		1.09e5	0.119		4.11				
12	17 PFDoA	612.9 > 318.8		9.27e3	0.119		4.34				
13	22 13C3-PFBS	302 > 98.8	1.16e4	1.31e5	0.119	0.031	2.96	2.90	0.444	121	115.7
14	23 13C2-PFHxA	315 > 269.8	3.94e4	1.31e5	0.119	0.275	3.19	3.15	1.50	45.8	109.1
15	24 13C4-PFHpA	367.2 > 321.8	9.63e4	1.31e5	0.119	0.260	3.45	3.41	3.67	119	112.9
16	25 18O2-PFHxS	403 > 102.6	9.25e3	2.05e4	0.119	0.402	3.56	3.49	5.64	118	112.1
17	26 13C2-PFOA	414.9 > 369.7	1.22e5	1.16e5	0.119	1.042	3.65	3.61	13.1	106	100.8
18	27 13C5-PFNA	468.2 > 422.9	1.00e5	1.30e5	0.119	0.792	3.83	3.79	9.65	102	97.4

Dataset: U:\Q4.PRO\results\170727M1\170727M1-81.qld

Last Altered: Thursday, August 03, 2017 14:05:57 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:06:32 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_81, Date: 28-Jul-2017, Time: 01:58:51, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	2.09e4	2.02e4	0.119	0.951	3.89	3.85	13.0	115	109.2
2	30 13C2-PFDA	515.1 > 469.9	1.00e5	1.31e5	0.119	0.869	4.01	3.96	9.58	92.7	88.2
3	31 d3-N-MeFOSAA	573.3 > 419	2.16e4	1.30e5	0.119	0.013	4.03	3.98	2.08	1350	98.9
4	32 d5-N-EtFOSAA	589.3 > 419	2.17e4	1.30e5	0.119	0.013	4.12	4.05	2.09	1380	101.1
5	33 13C2-PFUnA	565 > 519.8	1.09e5	1.30e5	0.119	0.928	4.17	4.12	10.5	94.6	90.1
6	34 13C2-PFDoA	615 > 569.7	9.27e3	1.30e5	0.119	0.071	4.34	4.28	0.892	105	100.3
7	37 13C5-PFHxA	318 > 272.9	1.31e5	1.31e5	0.119	1.000	3.19	3.15	5.00	42.0	100.0
8	38 13C3-PFHxS	401.9 > 79.9	2.05e4	2.05e4	0.119	1.000	3.56	3.49	12.5	105	100.0
9	39 13C8-PFOA	421.3 > 376	1.16e5	1.16e5	0.119	1.000	3.65	3.61	12.5	105	100.0
10	40 13C9-PFNA	472.2 > 426.9	1.30e5	1.30e5	0.119	1.000	3.83	3.79	12.5	105	100.0
11	41 13C4-PFOS	503 > 79.9	2.02e4	2.02e4	0.119	1.000	3.89	3.84	12.5	105	100.0
12	42 13C6-PFDA	519.1 > 473.7	1.31e5	1.31e5	0.119	1.000	4.01	3.96	12.5	105	100.0
13	43 13C7-PFUnA	570.1 > 524.8	1.30e5	1.30e5	0.119	1.000	4.17	4.13	12.5	105	100.0
14	44 Total PFBS	299 > 79.7	3.11e4	1.16e4	0.119		2.96		33.4	149	
15	45 Total PFHxS	398.9 > 79.6	2.11e2	9.25e3	0.119		3.52		0.285	0.0391	
16	46 Total PFOA	413 > 368.7	0.00e0	1.22e5	0.119		3.65		0.000		
17	47 Total PFOS	499 > 79.9	4.39e1	2.09e4	0.119		3.89		0.000		
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	2.16e4	0.119		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	2.17e4	0.119		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-81.qld

Last Altered: Thursday, August 03, 2017 14:05:57 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:06:19 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_81, Date: 28-Jul-2017, Time: 01:58:51, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	31117.045	11644.652	33.403	bb	148.8

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.50	210.530	9247.029	0.285	MM	0.0

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7			121921.695		MM-I	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.85	43.872	20944.162	0.026	MMI	

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			21706.566		MM-I	

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170727M1\170727M1-81.qld

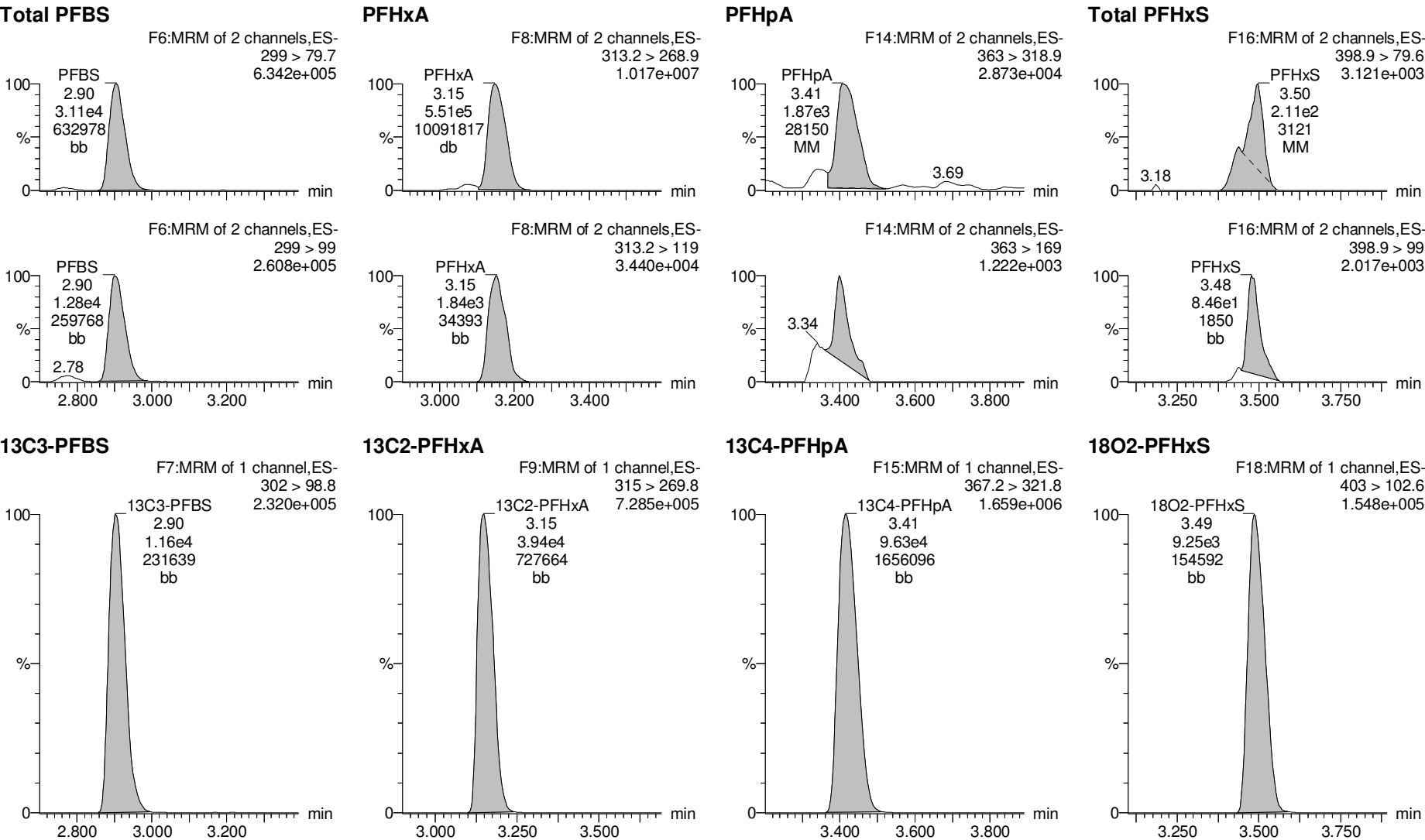
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Printed: Thursday, August 03, 2017 14:06:19 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_81, Date: 28-Jul-2017, Time: 01:58:51, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

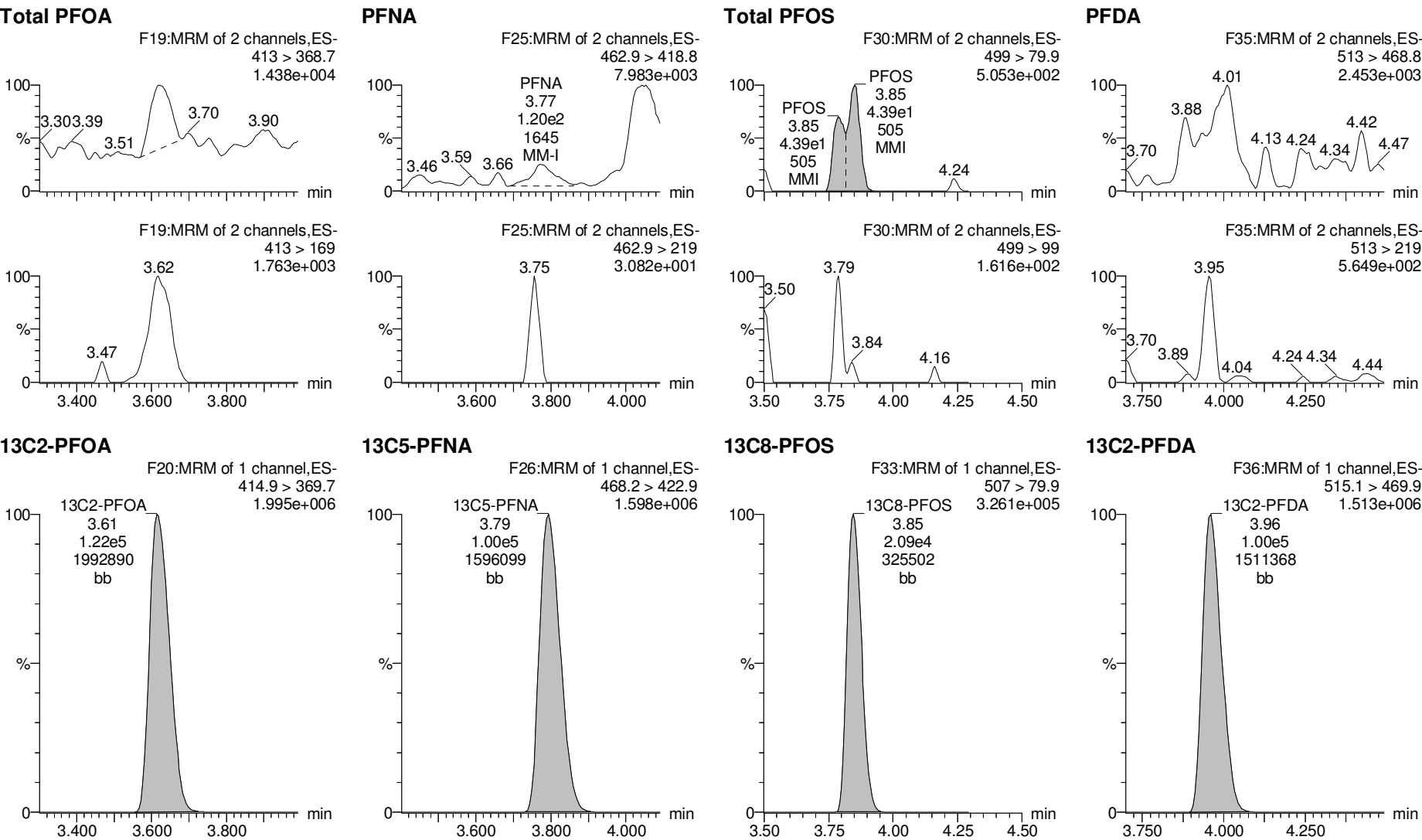


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Printed: Thursday, August 03, 2017 14:06:19 Pacific Daylight Time

Name: 170727M1_81, Date: 28-Jul-2017, Time: 01:58:51, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

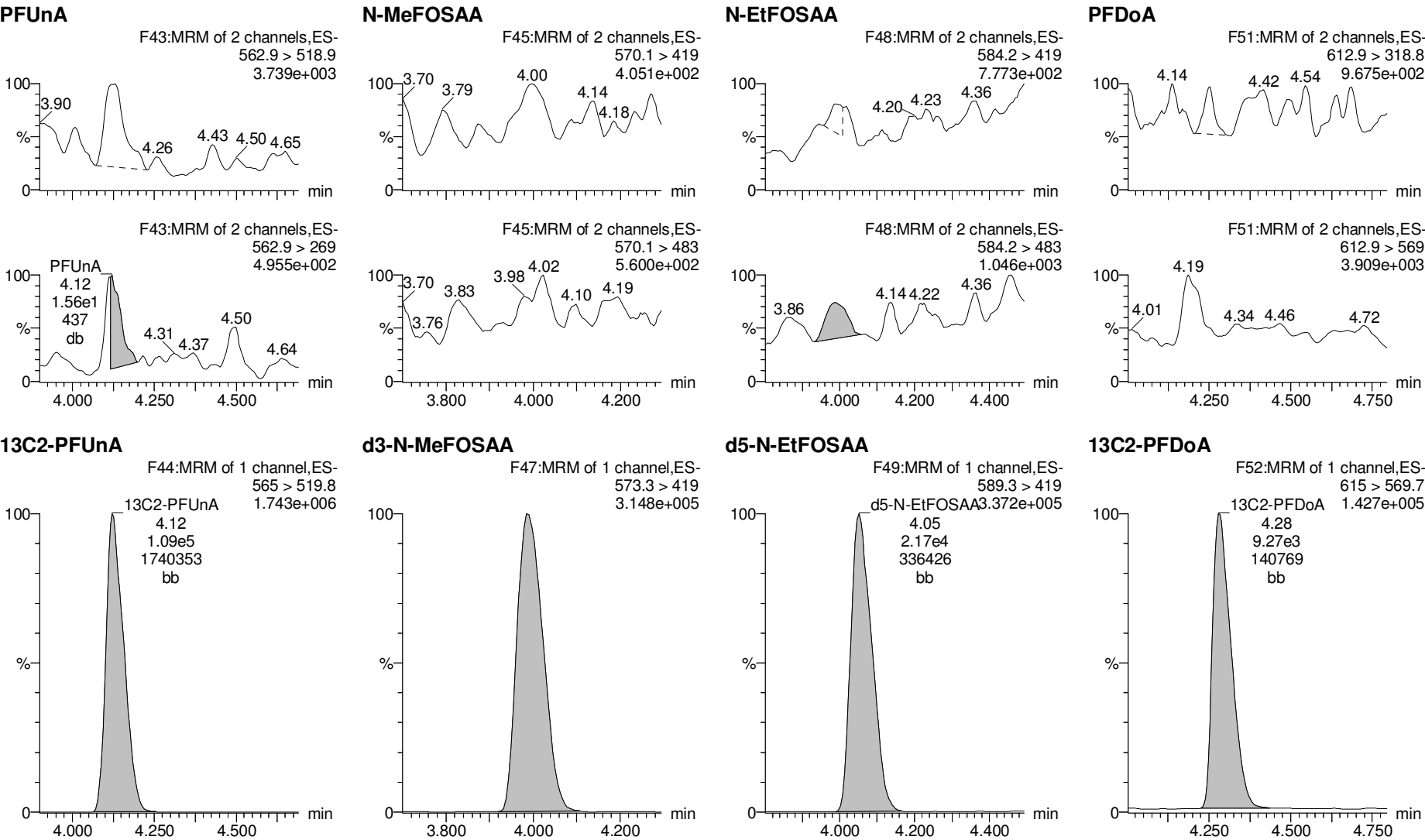


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Last Altered: Thursday, August 03, 2017 14:05:57 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:06:19 Pacific Daylight Time

Name: 170727M1_81, Date: 28-Jul-2017, Time: 01:58:51, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

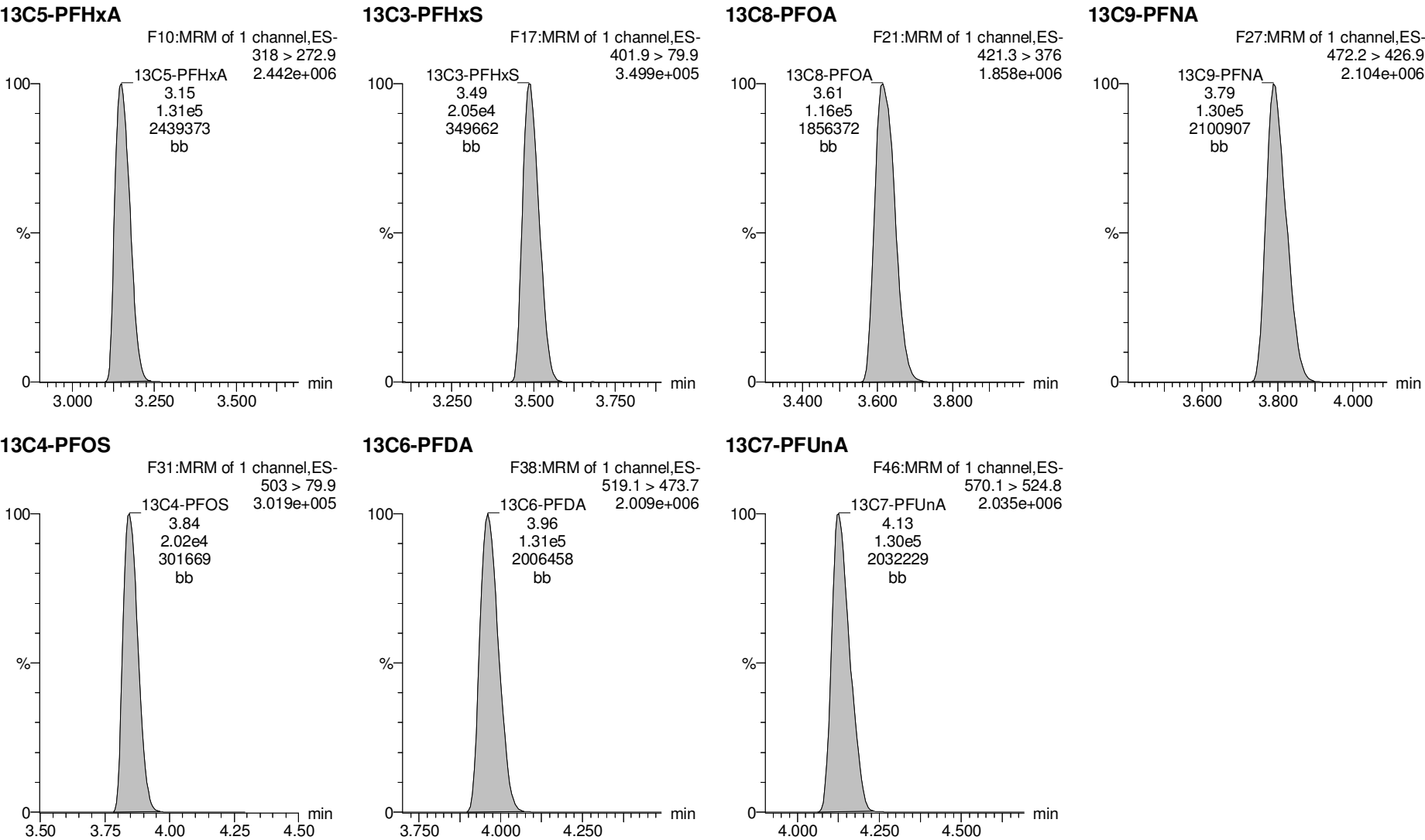


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Printed: Thursday, August 03, 2017 14:06:19 Pacific Daylight Time

Name: 170727M1_81, Date: 28-Jul-2017, Time: 01:58:51, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-29.qld

Last Altered: Wednesday, August 02, 2017 16:17:55 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:18:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_29, Date: 31-Jul-2017, Time: 17:20:04, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.82e3	0.1190		4.50				
2	19 PFTeDA	712.9 > 668.8		1.33e4	0.1190		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	1.33e4	2.00e4	0.1190	0.762	4.68	4.65	8.31	91.6	87.2
4	43 13C7-PFUnA	570.1 > 524.8	2.00e4	2.00e4	0.1190	1.000	4.17	4.14	12.5	105	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-29.qld

Last Altered: Wednesday, August 02, 2017 16:17:55 Pacific Daylight Time

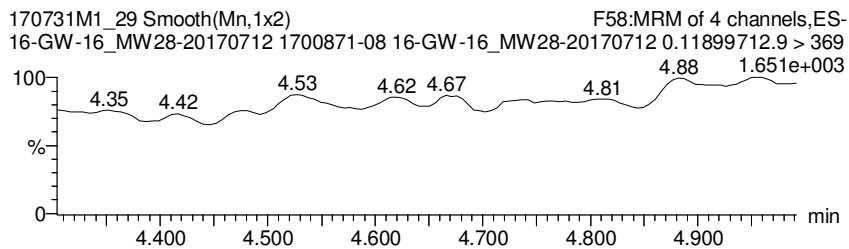
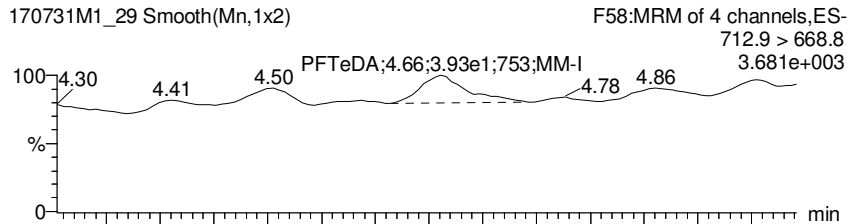
Printed: Wednesday, August 02, 2017 16:18:26 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

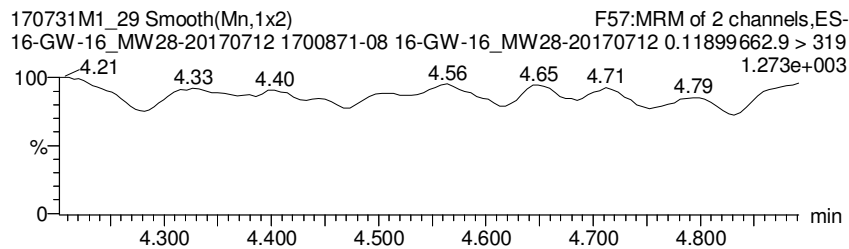
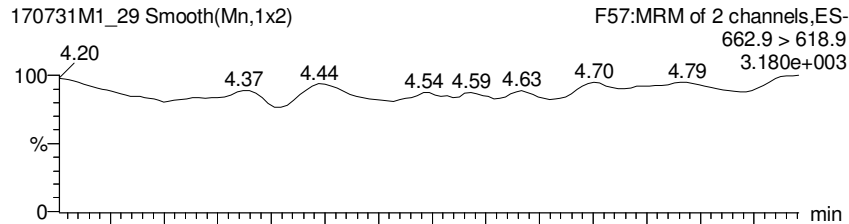
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Name: 170731M1_29, Date: 31-Jul-2017, Time: 17:20:04, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

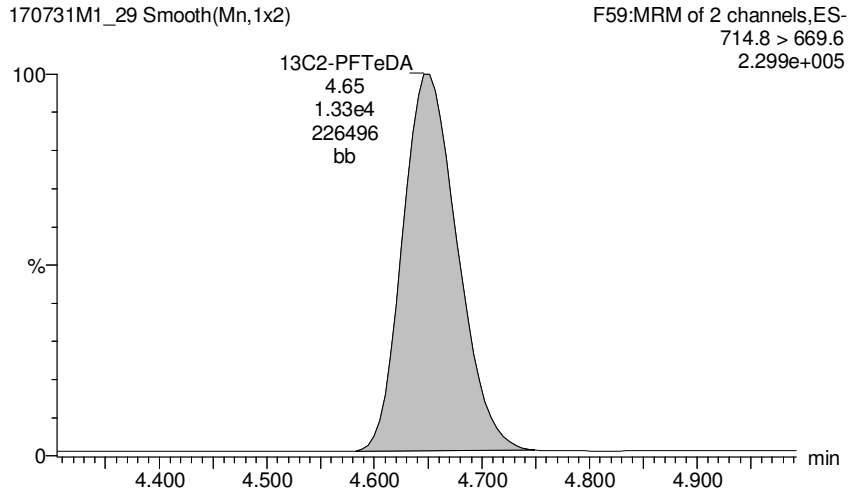
PFTeDA



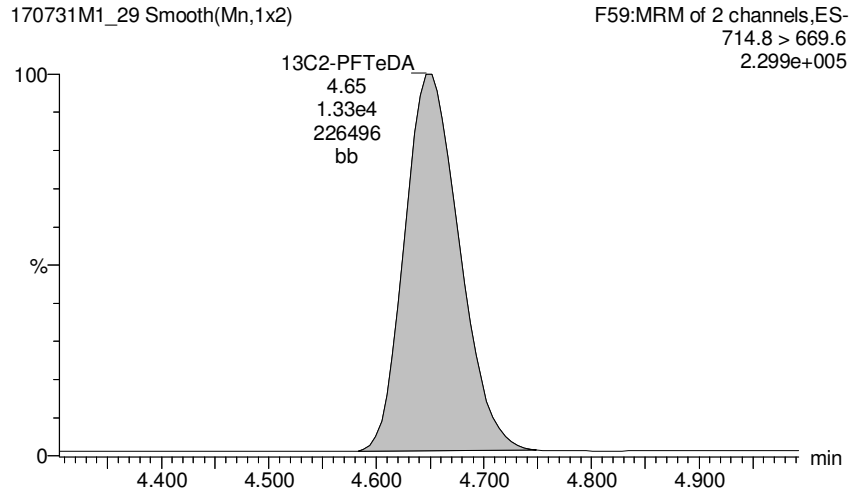
PFTrDA



13C2-PFTeDA



13C2-PFTeDA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-29.qld

Last Altered: Wednesday, August 02, 2017 16:17:55 Pacific Daylight Time

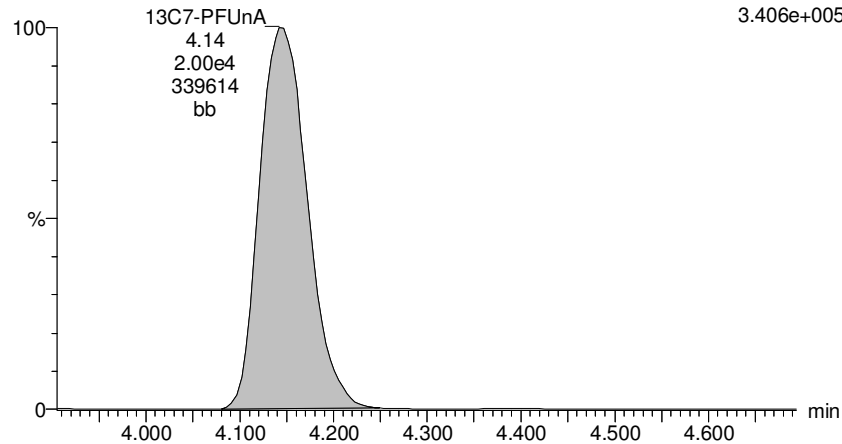
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Name: 170731M1_29, Date: 31-Jul-2017, Time: 17:20:04, ID: 1700871-08 16-GW-16_MW28-20170712 0.11899, Description: 16-GW-16_MW28-20170712

13C7-PFUnA

170731M1_29 Smooth(Mn,1x2)

F46:MRM of 1 channel,ES-
570.1 > 524.8
3.406e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-82.qld

Last Altered: Thursday, August 03, 2017 14:08:20 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:08:35 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_82, Date: 28-Jul-2017, Time: 02:09:38, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	4.03e4	1.38e4	0.119		2.96	2.90	36.6	163	
2	4 PFHxA	313.2 > 268.9	8.07e4	4.57e4	0.119		3.19	3.15	8.84	50.2	
3	5 PFHpA	363 > 318.9	7.93e3	1.11e5	0.119		3.45	3.41	0.895	5.33	
4	6 PFHxS	398.9 > 79.6	4.06e3	1.13e4	0.119		3.56	3.48	4.51	21.6	
5	7 PFOA	413 > 368.7	1.93e3	1.50e5	0.119		3.65	3.62	0.161		
6	9 PFNA	462.9 > 418.8	1.97e2	1.17e5	0.119		3.83	3.79	0.0209		
7	11 PFOS	499 > 79.9	7.17e2	2.57e4	0.119		3.89	3.84	0.349	2.21	
8	12 PFDA	513 > 468.8	1.83e2	1.19e5	0.119		4.01	3.99	0.0192		
9	13 N-MeFOSAA	570.1 > 419		2.57e4	0.119		4.03				
10	14 N-EtFOSAA	584.2 > 419		2.67e4	0.119		4.10				
11	15 PFUnA	562.9 > 518.9	2.94e2	1.15e5	0.119		4.11	4.12	0.0319		
12	17 PFDaA	612.9 > 318.8		1.18e4	0.119		4.34				
13	22 13C3-PFBS	302 > 98.8	1.38e4	1.50e5	0.119	0.031	2.96	2.90	0.460	126	119.8
14	23 13C2-PFHxA	315 > 269.8	4.57e4	1.50e5	0.119	0.275	3.19	3.15	1.52	46.5	110.7
15	24 13C4-PFHpA	367.2 > 321.8	1.11e5	1.50e5	0.119	0.260	3.45	3.41	3.69	119	113.7
16	25 18O2-PFHxS	403 > 102.6	1.13e4	2.50e4	0.119	0.402	3.56	3.48	5.62	117	111.8
17	26 13C2-PFOA	414.9 > 369.7	1.50e5	1.34e5	0.119	1.042	3.65	3.62	14.0	112	107.1
18	27 13C5-PFNA	468.2 > 422.9	1.17e5	1.40e5	0.119	0.792	3.83	3.79	10.5	111	105.8

Dataset: U:\Q4.PRO\results\170727M1\170727M1-82.qld

Last Altered: Thursday, August 03, 2017 14:08:20 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:08:47 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_82, Date: 28-Jul-2017, Time: 02:09:38, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	2.57e4	2.47e4	0.119	0.951	3.89	3.84	13.0	115	109.4
2	30 13C2-PFDA	515.1 > 469.9	1.19e5	1.37e5	0.119	0.869	4.01	3.96	10.9	105	100.3
3	31 d3-N-MeFOSAA	573.3 > 419	2.57e4	1.42e5	0.119	0.013	4.03	3.99	2.26	1470	107.6
4	32 d5-N-EtFOSAA	589.3 > 419	2.67e4	1.42e5	0.119	0.013	4.12	4.05	2.35	1550	113.7
5	33 13C2-PFUnA	565 > 519.8	1.15e5	1.42e5	0.119	0.928	4.17	4.12	10.1	91.6	87.3
6	34 13C2-PFDoA	615 > 569.7	1.18e4	1.42e5	0.119	0.071	4.34	4.28	1.04	123	117.2
7	37 13C5-PFHxA	318 > 272.9	1.50e5	1.50e5	0.119	1.000	3.19	3.15	5.00	42.0	100.0
8	38 13C3-PFHxS	401.9 > 79.9	2.50e4	2.50e4	0.119	1.000	3.56	3.48	12.5	105	100.0
9	39 13C8-PFOA	421.3 > 376	1.34e5	1.34e5	0.119	1.000	3.65	3.61	12.5	105	100.0
10	40 13C9-PFNA	472.2 > 426.9	1.40e5	1.40e5	0.119	1.000	3.83	3.79	12.5	105	100.0
11	41 13C4-PFOS	503 > 79.9	2.47e4	2.47e4	0.119	1.000	3.89	3.84	12.5	105	100.0
12	42 13C6-PFDA	519.1 > 473.7	1.37e5	1.37e5	0.119	1.000	4.01	3.96	12.5	105	100.0
13	43 13C7-PFUnA	570.1 > 524.8	1.42e5	1.42e5	0.119	1.000	4.17	4.12	12.5	105	100.0
14	44 Total PFBS	299 > 79.7	4.03e4	1.38e4	0.119		2.96		36.6	163	
15	45 Total PFHxS	398.9 > 79.6	4.06e3	1.13e4	0.119		3.52		4.51	21.6	
16	46 Total PFOA	413 > 368.7	1.93e3	1.50e5	0.119		3.65		0.000		
17	47 Total PFOS	499 > 79.9	7.17e2	2.57e4	0.119		3.89		0.349	2.21	
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	2.57e4	0.119		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	2.67e4	0.119		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-82.qld

Last Altered: Thursday, August 03, 2017 14:08:20 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:08:35 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_82, Date: 28-Jul-2017, Time: 02:09:38, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	40343.504	13786.057	36.580	bb	162.9

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.48	4058.937	11261.486	4.505	bb	21.6

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.62	1929.892	149696.406	0.161	MMI	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.84	717.069	25692.436	0.349	MM	2.2

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			26705.422		MM-I	

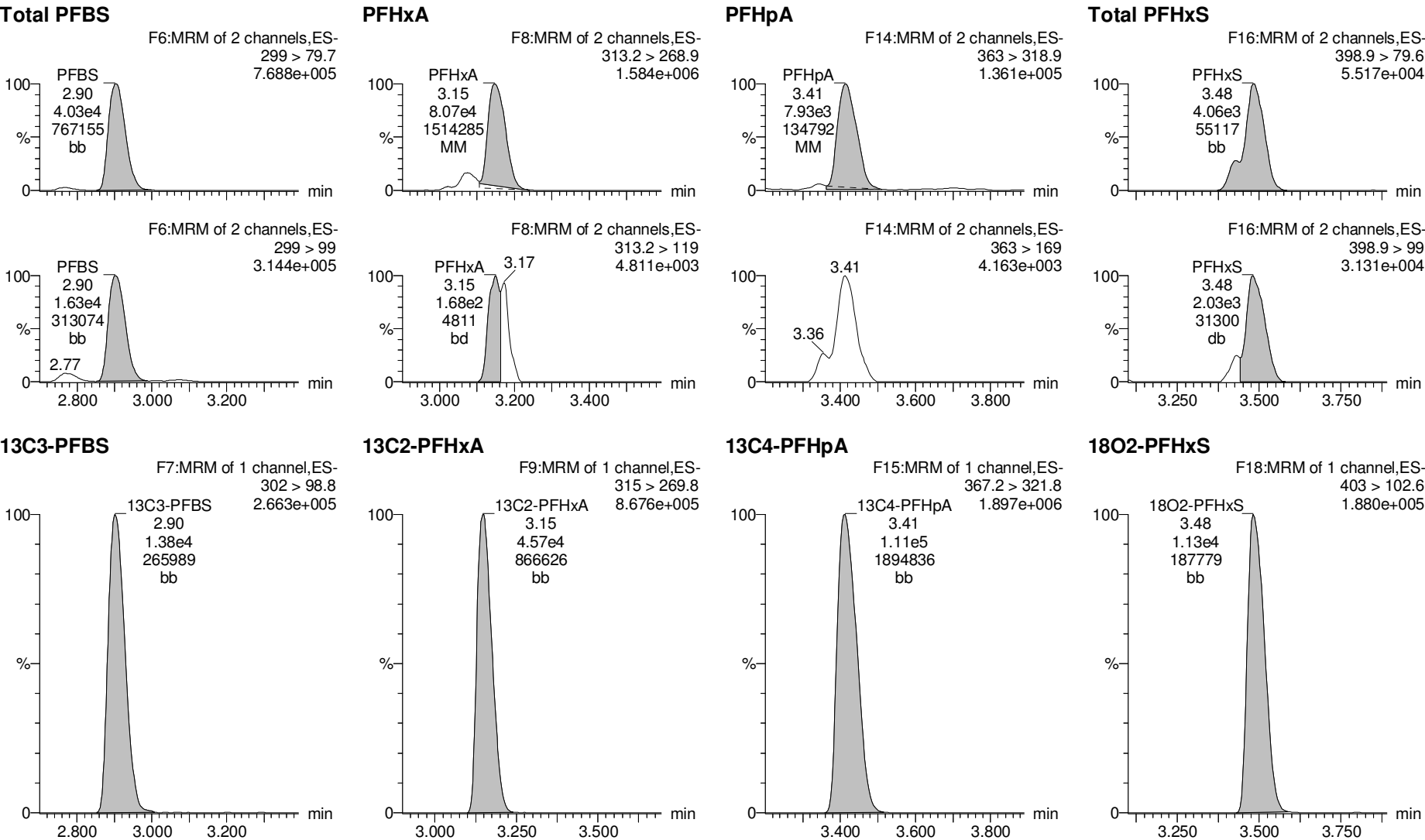
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170727M1\170727M1-82.qld

Last Altered: Thursday, August 03, 2017 14:08:20 Pacific Daylight Time
Printed: Thursday, August 03, 2017 14:08:35 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_82, Date: 28-Jul-2017, Time: 02:09:38, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712



Reviewed: WJL 8/4/2017

Work Order 1700871

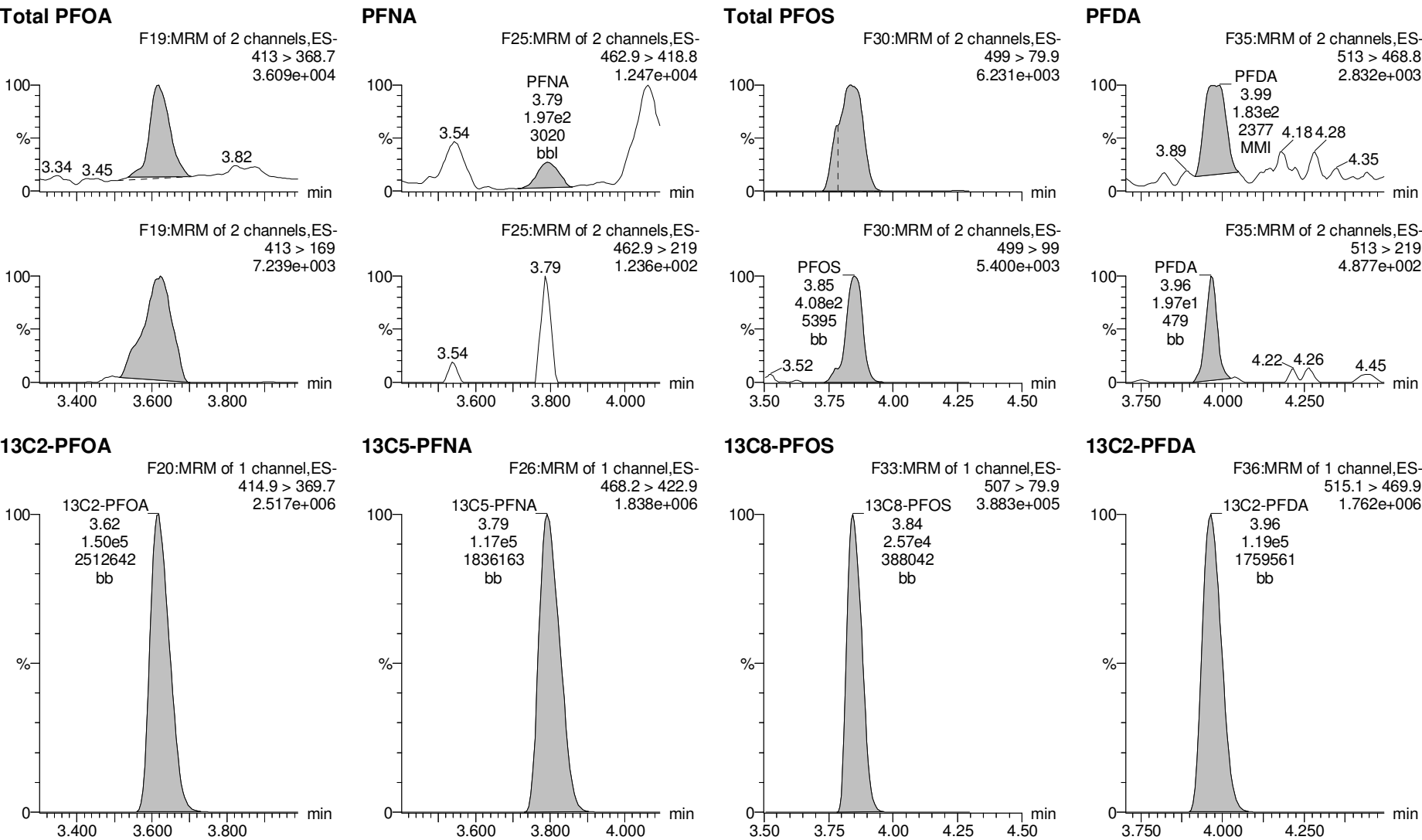
GM 8/3/17

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Printed: Thursday, August 03, 2017 14:08:35 Pacific Daylight Time

Name: 170727M1_82, Date: 28-Jul-2017, Time: 02:09:38, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

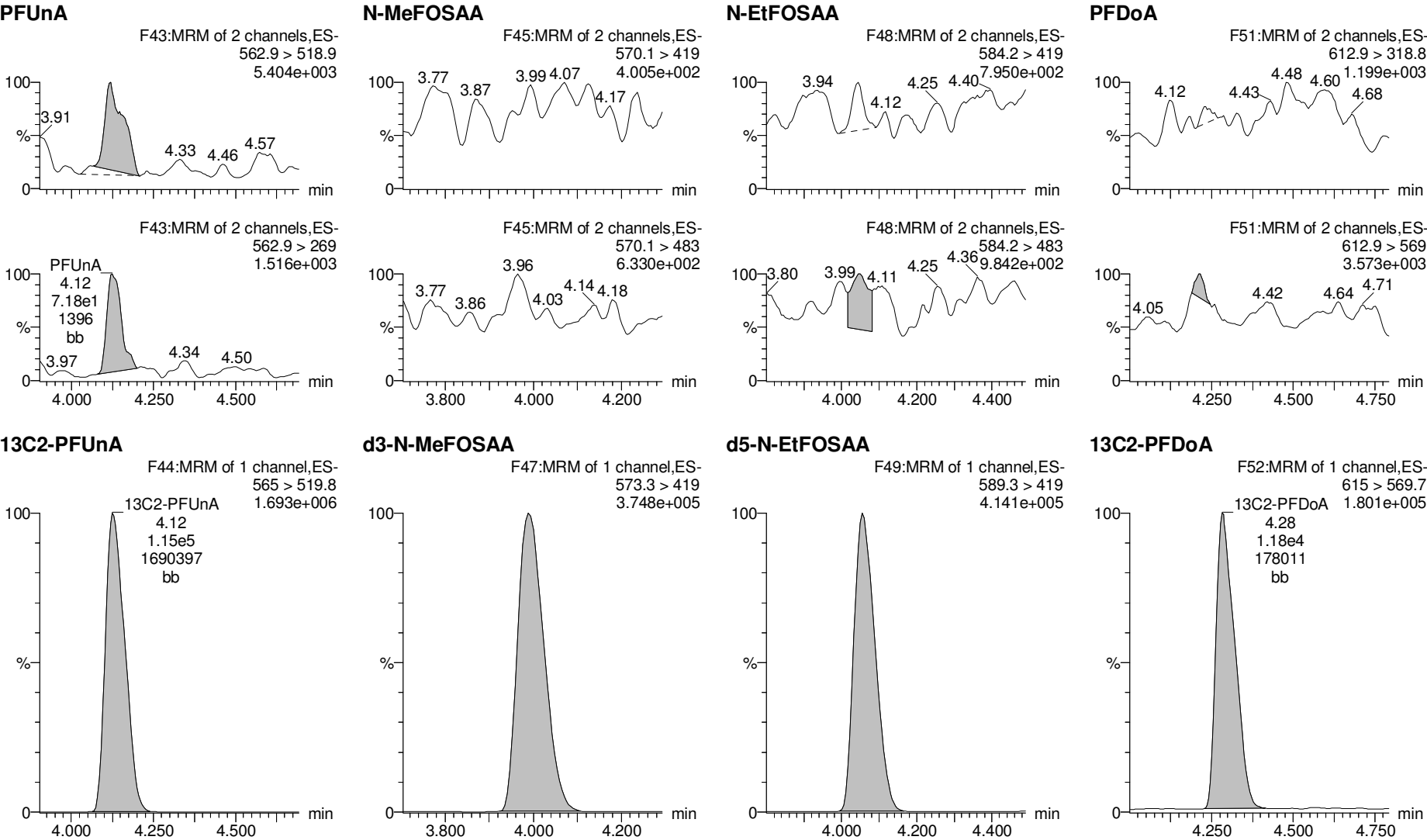


Vista Analytical Laboratory

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Printed: Thursday, August 03, 2017 14:08:35 Pacific Daylight Time

Name: 170727M1_82, Date: 28-Jul-2017, Time: 02:09:38, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

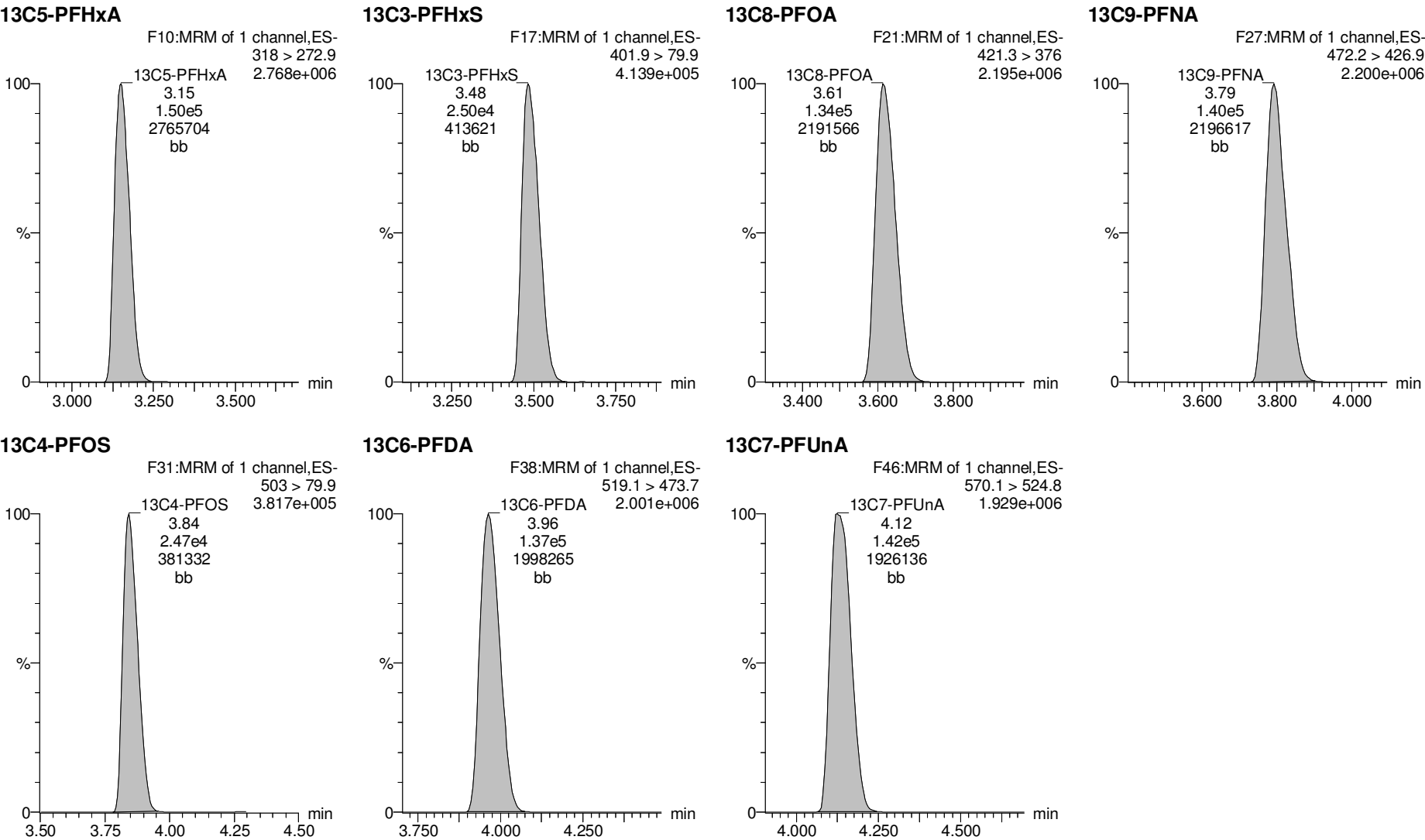


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Last Altered: Thursday, August 03, 2017 14:08:20 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:08:35 Pacific Daylight Time

Name: 170727M1_82, Date: 28-Jul-2017, Time: 02:09:38, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712



Dataset: U:\Q4.PRO\results\170731M1\170731M1-30.qld

Last Altered: Wednesday, August 02, 2017 16:19:38 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:20:51 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_30, Date: 31-Jul-2017, Time: 17:30:50, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.72e3	0.1191		4.50				
2	19 PFTeDA	712.9 > 668.8		1.23e4	0.1191		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	1.23e4	2.27e4	0.1191	0.762	4.68	4.65	6.75	74.3	70.8
4	43 13C7-PFUnA	570.1 > 524.8	2.27e4	2.27e4	0.1191	1.000	4.17	4.15	12.5	105	100.0

Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170731M1\170731M1-30.qld

Last Altered: Wednesday, August 02, 2017 16:19:38 Pacific Daylight Time

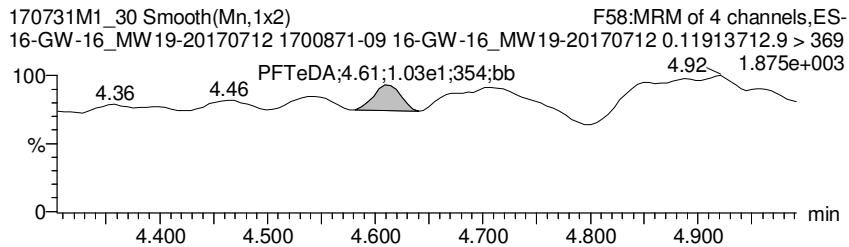
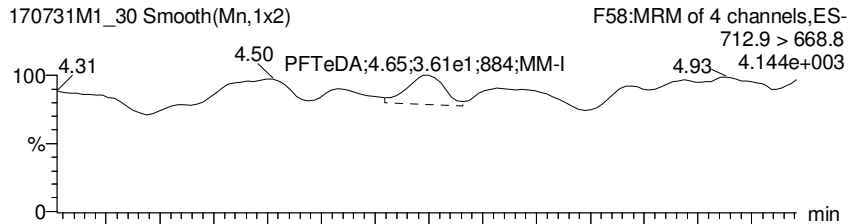
Printed: Wednesday, August 02, 2017 16:20:51 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

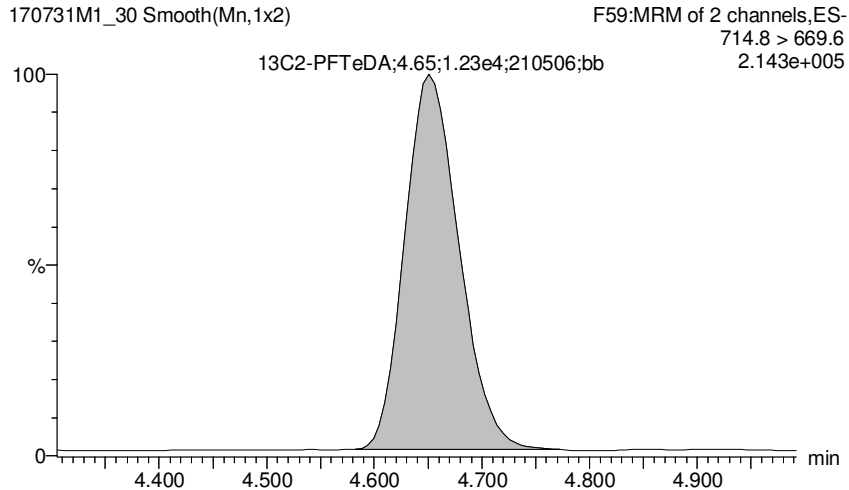
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Name: 170731M1_30, Date: 31-Jul-2017, Time: 17:30:50, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

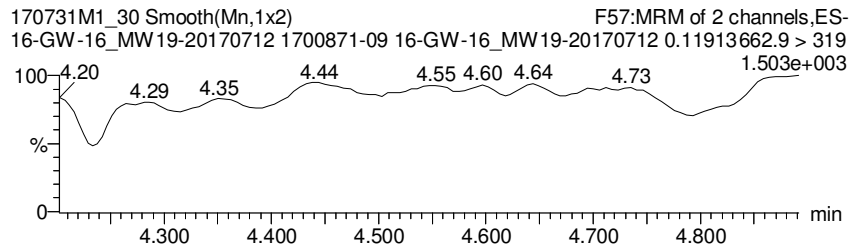
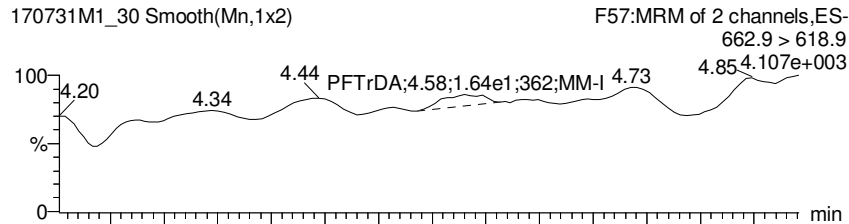
PFTeDA



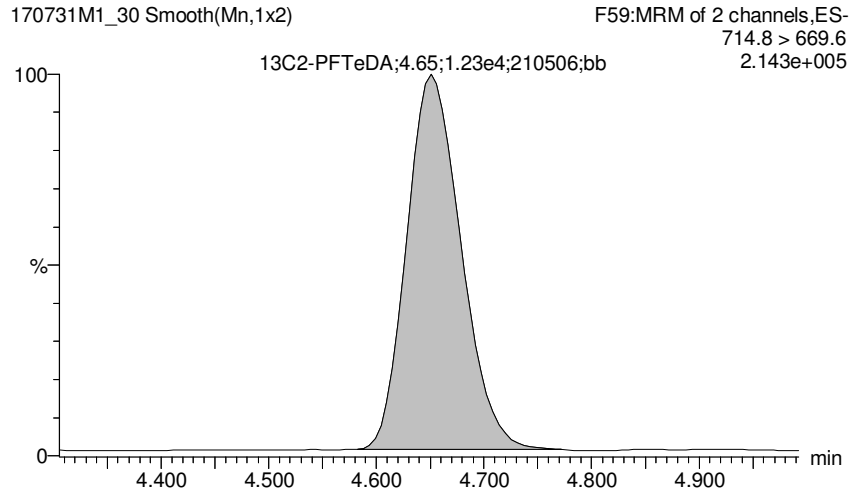
13C2-PFTeDA



PFTrDA



13C2-PFTeDA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-30.qld

Last Altered: Wednesday, August 02, 2017 16:19:38 Pacific Daylight Time

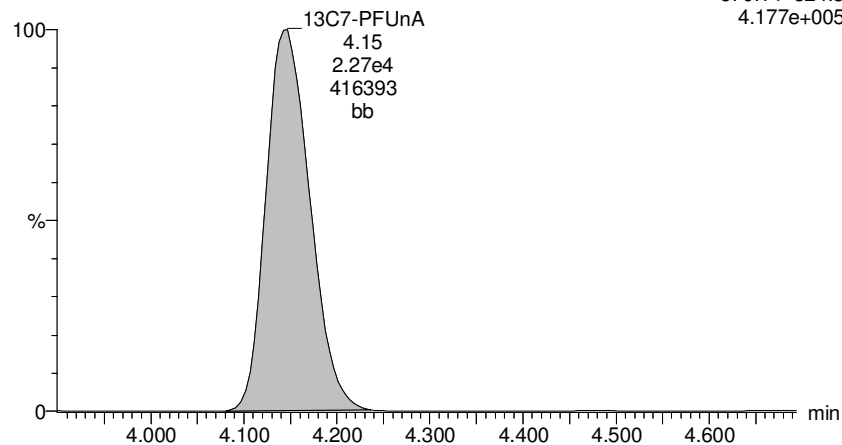
Printed: Wednesday, August 02, 2017 16:20:51 Pacific Daylight Time

Name: 170731M1_30, Date: 31-Jul-2017, Time: 17:30:50, ID: 1700871-09 16-GW-16_MW19-20170712 0.11913, Description: 16-GW-16_MW19-20170712

13C7-PFUnA

170731M1_30 Smooth(Mn,1x2)

F46:MRM of 1 channel,ES-
570.1 > 524.8
4.177e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-83.qld

Last Altered: Wednesday, August 02, 2017 15:49:13 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:49:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_83, Date: 28-Jul-2017, Time: 02:20:24, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	1.51e1	2.17e4	0.1165		2.96	2.90	0.00870		
2	4 PFHxA	313.2 > 268.9		7.30e4	0.1165		3.19				
3	5 PFHpA	363 > 318.9		1.64e5	0.1165		3.45				
4	6 PFHxS	398.9 > 79.6	4.86e1	1.50e4	0.1165		3.56	3.49	0.0406		
5	7 PFOA	413 > 368.7	6.94e2	1.90e5	0.1165		3.65	3.64	0.0456		
6	9 PFNA	462.9 > 418.8		1.44e5	0.1165		3.83				
7	11 PFOS	499 > 79.9	4.21e1	2.87e4	0.1165		3.89	3.79	0.0184		
8	12 PFDA	513 > 468.8	1.12e2	1.27e5	0.1165		4.01	3.98	0.0110		
9	13 N-MeFOSAA	570.1 > 419		2.05e4	0.1165		4.03				
10	14 N-EtFOSAA	584.2 > 419		1.92e4	0.1165		4.10				
11	15 PFUnA	562.9 > 518.9	1.74e2	1.05e5	0.1165		4.11	4.16	0.0207		
12	17 PFDoA	612.9 > 318.8		5.72e3	0.1165		4.34				
13	22 13C3-PFBS	302 > 98.8	2.17e4	2.47e5	0.1165	0.031	2.96	2.91	0.439	123	114.4
14	23 13C2-PFHxA	315 > 269.8	7.30e4	2.47e5	0.1165	0.275	3.19	3.16	1.48	46.1	107.3
15	24 13C4-PFHpA	367.2 > 321.8	1.64e5	2.47e5	0.1165	0.260	3.45	3.41	3.32	110	102.1
16	25 18O2-PFHxS	403 > 102.6	1.50e4	3.49e4	0.1165	0.402	3.56	3.48	5.35	114	106.4
17	26 13C2-PFOA	414.9 > 369.7	1.90e5	1.90e5	0.1165	1.042	3.65	3.62	12.5	103	96.3
18	27 13C5-PFNA	468.2 > 422.9	1.44e5	1.86e5	0.1165	0.792	3.83	3.79	9.64	105	97.4
19	29 13C8-PFOS	507 > 79.9	2.87e4	2.79e4	0.1165	0.951	3.89	3.84	12.9	116	108.3

Dataset: U:\Q4.PRO\results\170727M1\170727M1-83.qld

Last Altered: Wednesday, August 02, 2017 15:49:13 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:49:40 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_83, Date: 28-Jul-2017, Time: 02:20:24, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	30 13C2-PFDA	515.1 > 469.9	1.27e5	1.61e5	0.1165	0.869	4.01	3.96	9.87	97.5	90.8
2	31 d3-N-MeFOSAA	573.3 > 419	2.05e4	1.29e5	0.1165	0.013	4.03	3.99	1.98	1310	94.0
3	32 d5-N-EtFOSAA	589.3 > 419	1.92e4	1.29e5	0.1165	0.013	4.12	4.05	1.86	1260	90.1
4	33 13C2-PFUnA	565 > 519.8	1.05e5	1.29e5	0.1165	0.928	4.17	4.12	10.2	94.2	87.8
5	34 13C2-PFDoA	615 > 569.7	5.72e3	1.29e5	0.1165	0.071	4.34	4.28	0.553	66.7	62.2
6	37 13C5-PFHxA	318 > 272.9	2.47e5	2.47e5	0.1165	1.000	3.19	3.16	5.00	42.9	100.0
7	38 13C3-PFHxS	401.9 > 79.9	3.49e4	3.49e4	0.1165	1.000	3.56	3.48	12.5	107	100.0
8	39 13C8-PFOA	421.3 > 376	1.90e5	1.90e5	0.1165	1.000	3.65	3.61	12.5	107	100.0
9	40 13C9-PFNA	472.2 > 426.9	1.86e5	1.86e5	0.1165	1.000	3.83	3.79	12.5	107	100.0
10	41 13C4-PFOS	503 > 79.9	2.79e4	2.79e4	0.1165	1.000	3.89	3.84	12.5	107	100.0
11	42 13C6-PFDA	519.1 > 473.7	1.61e5	1.61e5	0.1165	1.000	4.01	3.96	12.5	107	100.0
12	43 13C7-PFUnA	570.1 > 524.8	1.29e5	1.29e5	0.1165	1.000	4.17	4.13	12.5	107	100.0
13	44 Total PFBS	299 > 79.7	1.51e1	2.17e4	0.1165		2.96		0.000		
14	45 Total PFHxS	398.9 > 79.6	4.86e1	1.50e4	0.1165		3.52		0.000		
15	46 Total PFOA	413 > 368.7	6.94e2	1.90e5	0.1165		3.65		0.000		
16	47 Total PFOS	499 > 79.9	4.21e1	2.87e4	0.1165		3.89		0.000		
17	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	2.05e4	0.1165		4.03		0.000		
18	49 Total N-EtFOSAA	584.2 > 419	0.00e0	1.92e4	0.1165		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-83.qld

Last Altered: Wednesday, August 02, 2017 15:49:13 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:49:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_83, Date: 28-Jul-2017, Time: 02:20:24, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	15.095	21697.008	0.009	bbl	

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.49	48.586	14953.801	0.041	bbl	

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.64	693.681	190209.328	0.046	bbl	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.79	42.105	28665.943	0.018	MMI	

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419			20455.717		MM-I	

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1								

Dataset: U:\Q4.PRO\results\170727M1\170727M1-83.qld

Last Altered: Wednesday, August 02, 2017 15:49:13 Pacific Daylight Time

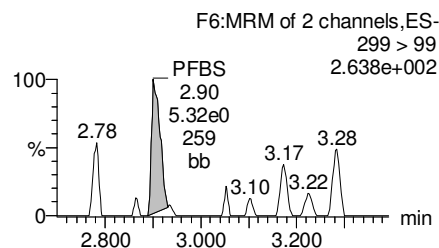
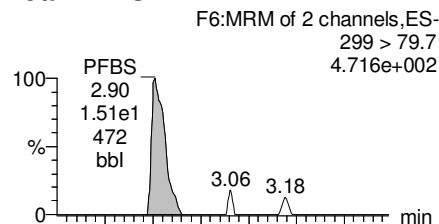
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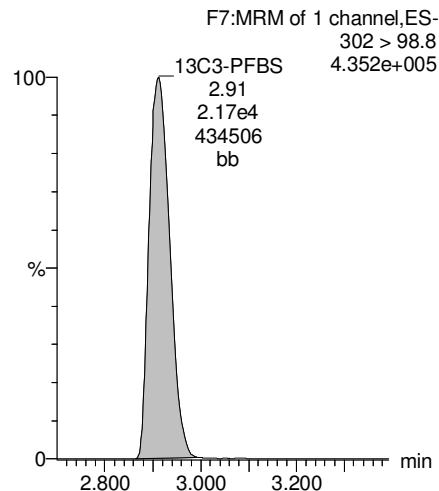
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Name: 170727M1_83, Date: 28-Jul-2017, Time: 02:20:24, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

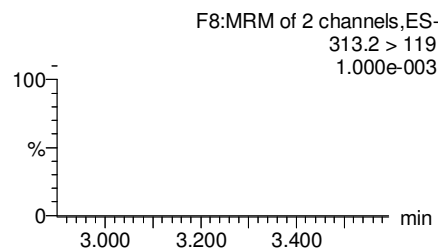
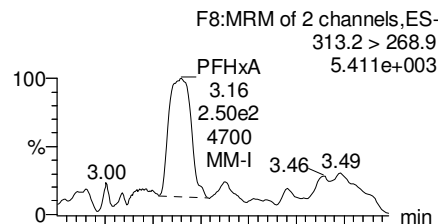
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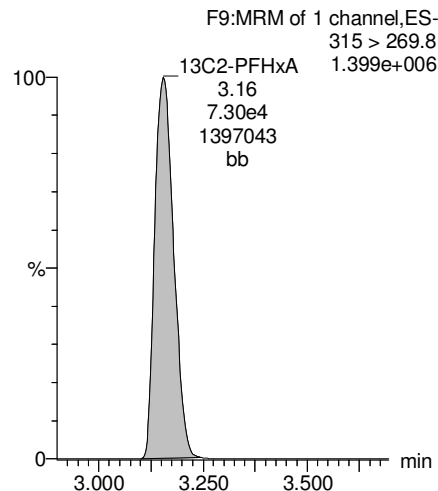
13C3-PFBS



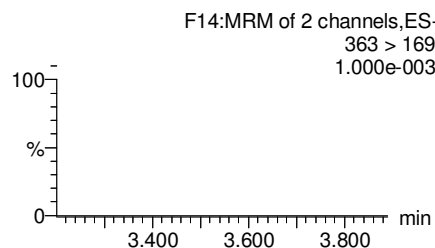
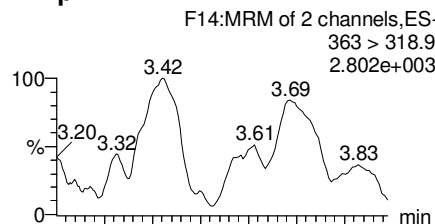
PFHxA



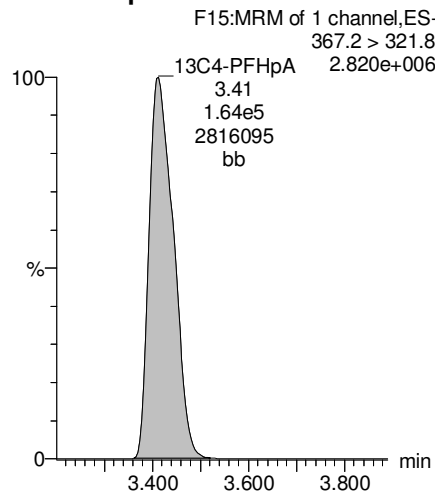
13C2-PFHxA



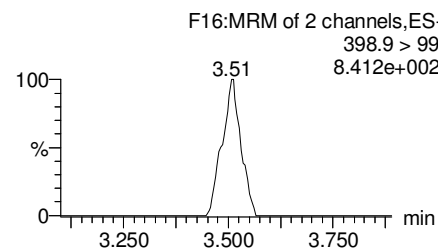
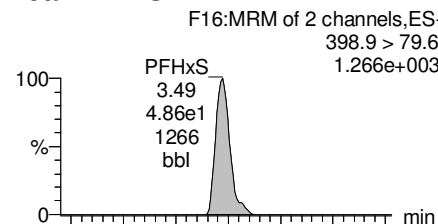
PFHpA



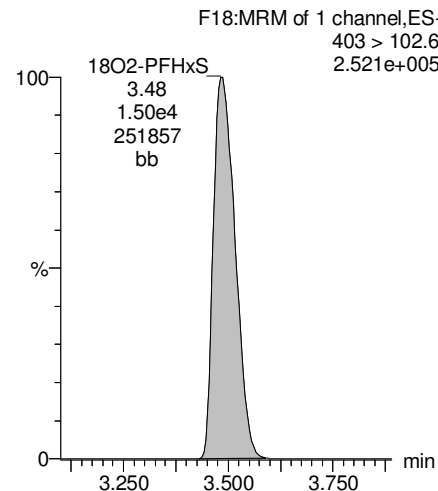
13C4-PFHpA



Total PFHxS



18O2-PFHxS



Reviewed: WJL 8/4/2017

GM 8/2/17

Vista Analytical Laboratory

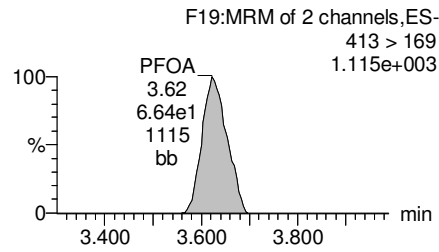
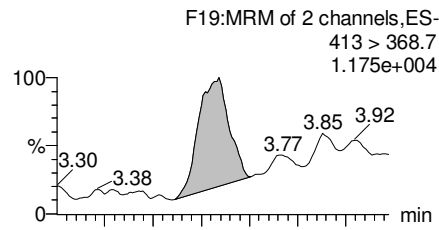
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Last Altered: Wednesday, August 02, 2017 15:49:13 Pacific Daylight Time

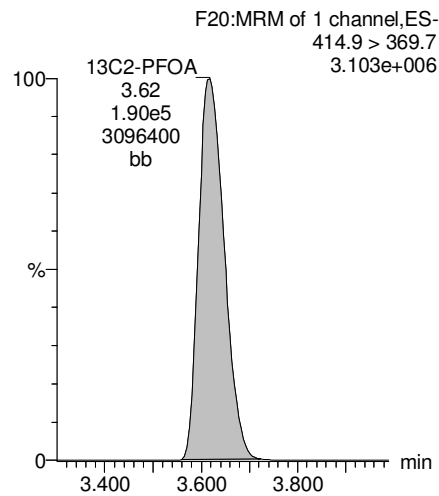
Printed: Wednesday, August 02, 2017 15:49:29 Pacific Daylight Time

Name: 170727M1_83, Date: 28-Jul-2017, Time: 02:20:24, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

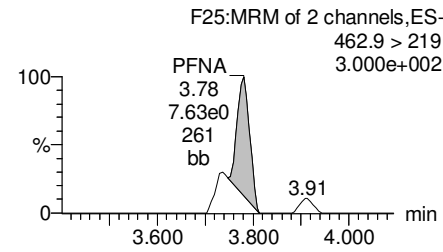
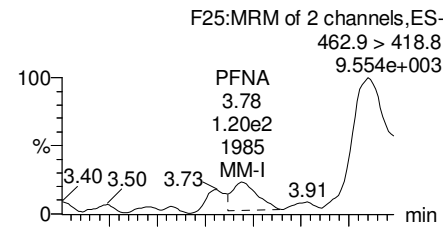
Total PFOA



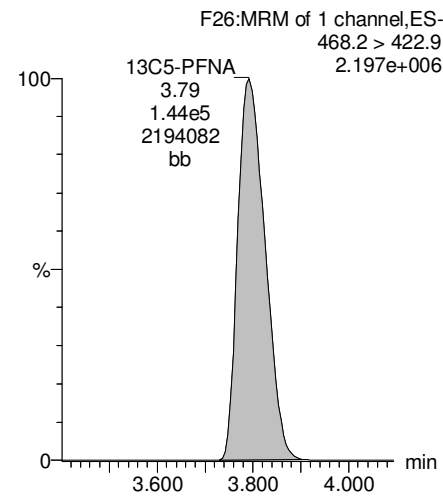
13C2-PFOA



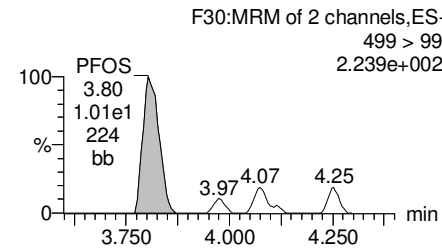
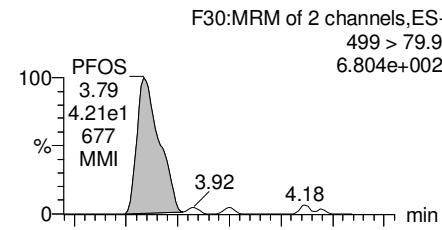
PFNA



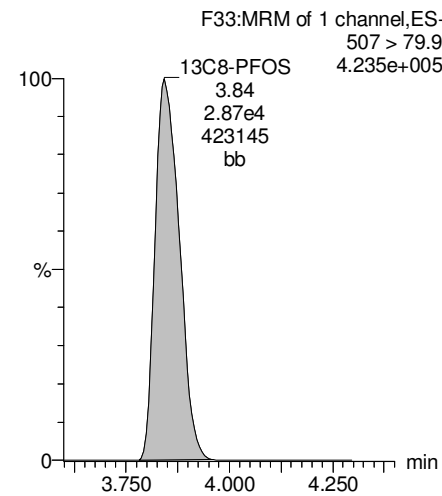
13C5-PFNA



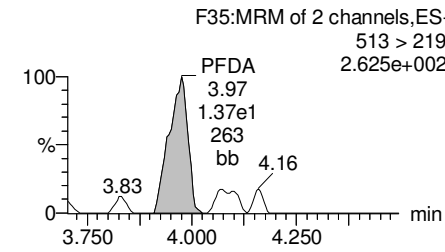
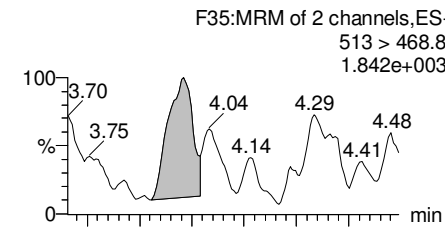
Total PFOS



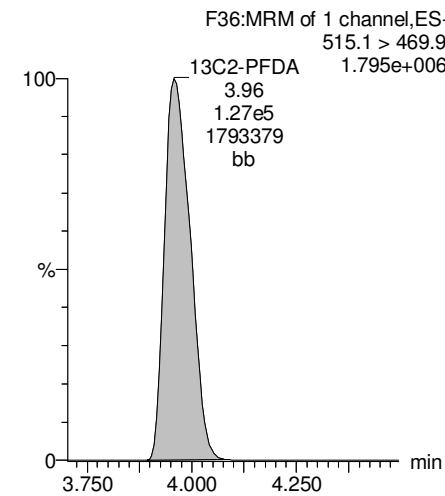
13C8-PFOS



PFDA



13C2-PFDA

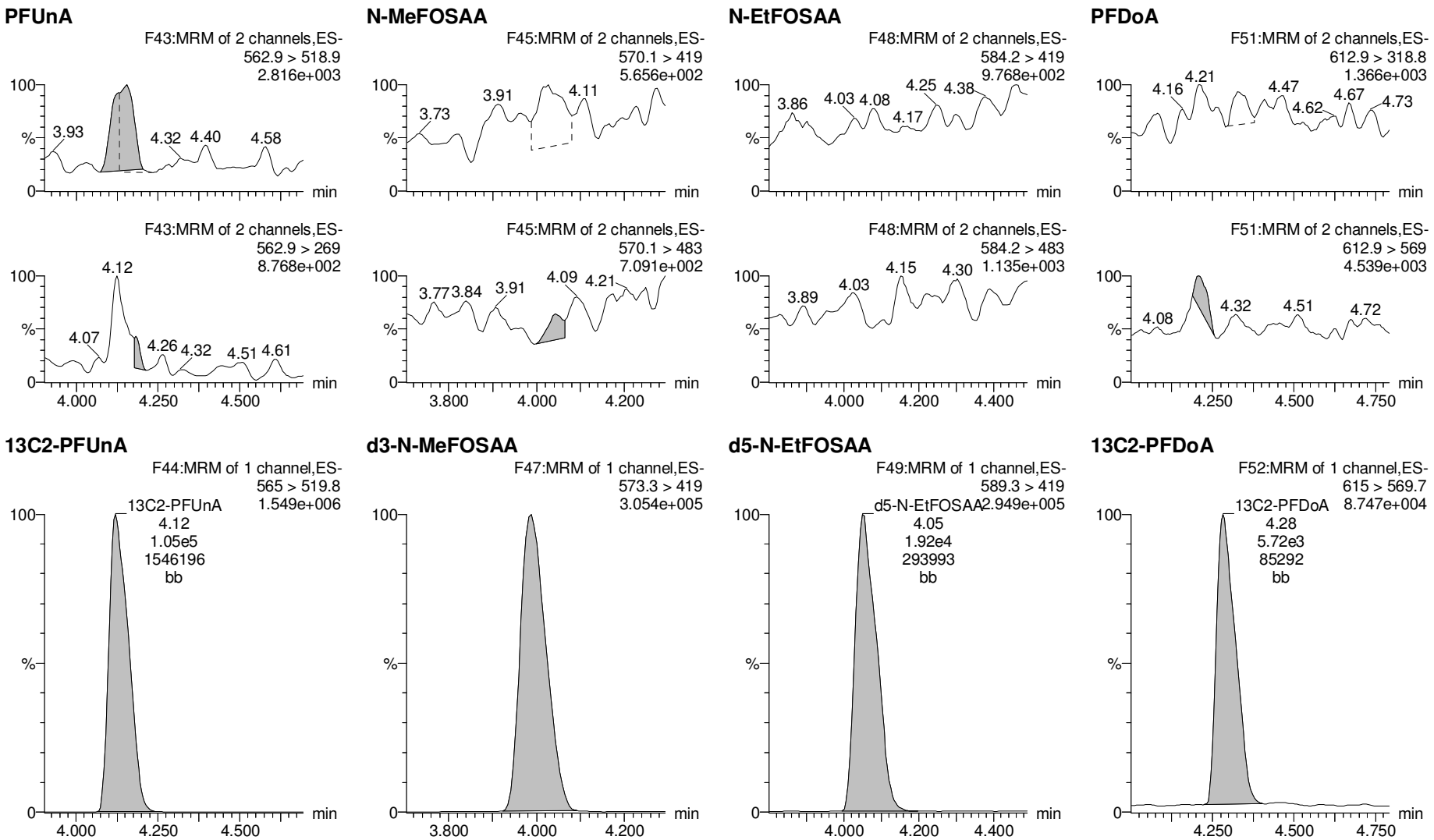


Dataset: U:\Q4.PRO\results\170727M1\170727M1-83.qld

Last Altered: Wednesday, August 02, 2017 15:49:13 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 15:49:29 Pacific Daylight Time

Name: 170727M1_83, Date: 28-Jul-2017, Time: 02:20:24, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713



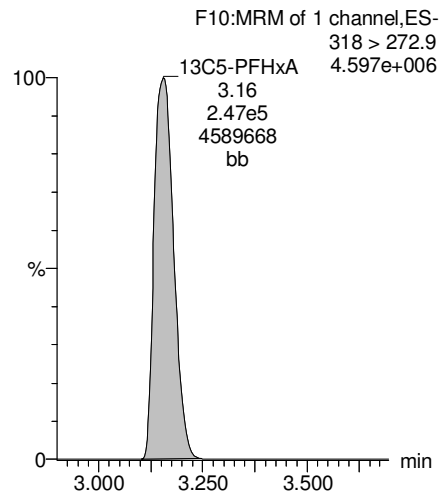
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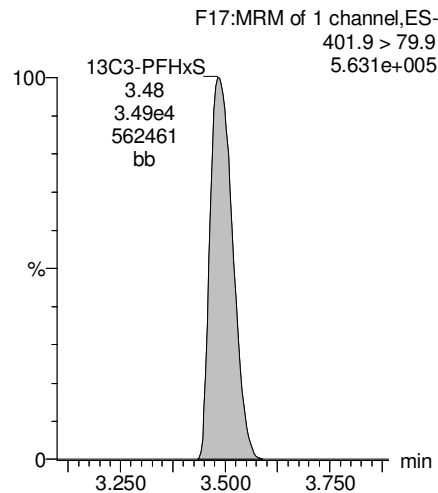
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Name: 170727M1_83, Date: 28-Jul-2017, Time: 02:20:24, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

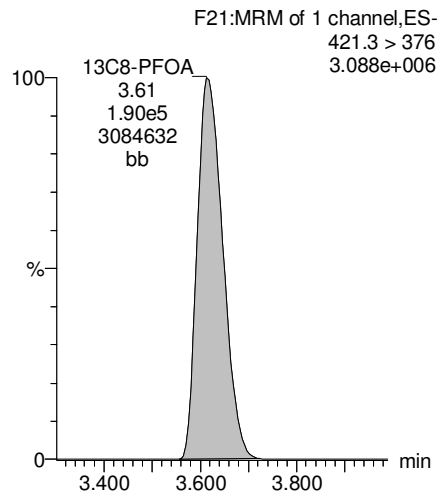
13C5-PFHxA



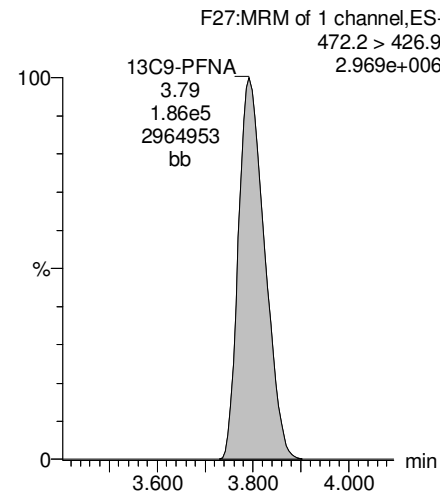
13C3-PFHxS



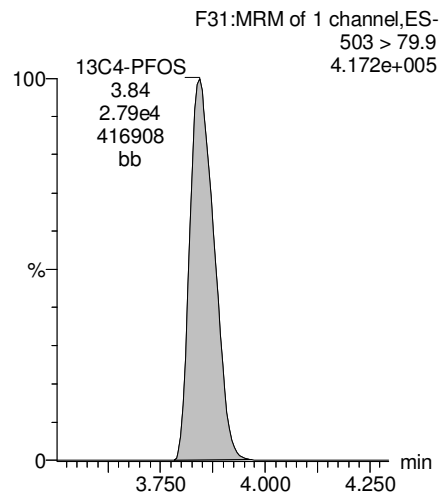
13C8-PFOA



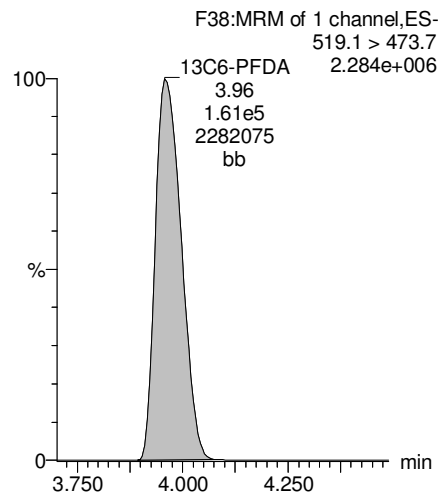
13C9-PFNA



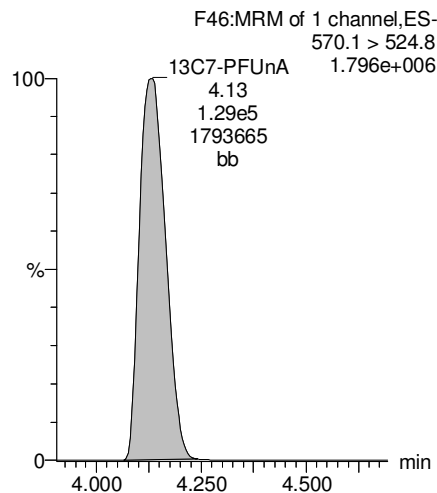
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-31.qld

Last Altered: Wednesday, August 02, 2017 16:21:55 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:22:31 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_31, Date: 31-Jul-2017, Time: 17:41:29, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.51e3	0.1165		4.50				
2	19 PFTeDA	712.9 > 668.8		5.30e3	0.1165		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	5.30e3	2.38e4	0.1165	0.762	4.68	4.65	2.78	31.3	29.2
4	43 13C7-PFUnA	570.1 > 524.8	2.38e4	2.38e4	0.1165	1.000	4.17	4.14	12.5	107	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-31.qld

Last Altered: Wednesday, August 02, 2017 16:21:55 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:22:31 Pacific Daylight Time

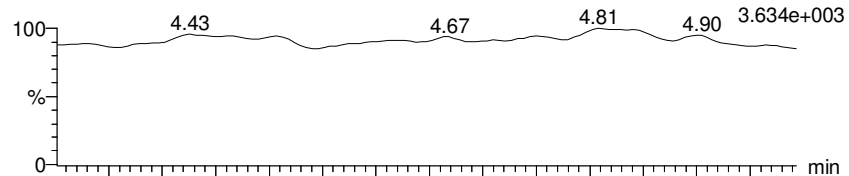
Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

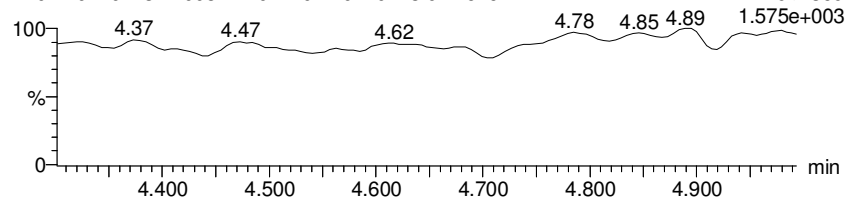
Name: 170731M1_31, Date: 31-Jul-2017, Time: 17:41:29, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

PFTeDA

170731M1_31 Smooth(Mn,1x2) F58:MRM of 4 channels,ES-
EB04-20170713 1700871-10 EB04-20170713 0.11646 712.9 > 668.8

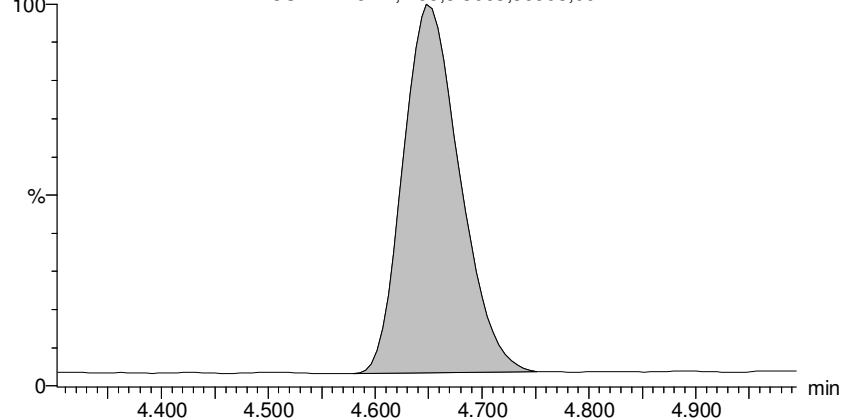


170731M1_31 Smooth(Mn,1x2) F58:MRM of 4 channels,ES-
EB04-20170713 1700871-10 EB04-20170713 0.11646 712.9 > 369



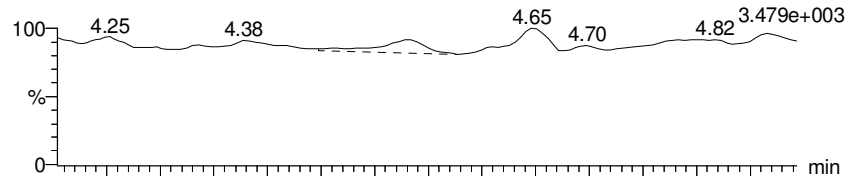
13C2-PFTeDA

170731M1_31 Smooth(Mn,1x2) F59:MRM of 2 channels,ES-
EB04-20170713 1700871-10 EB04-20170713 0.11646 714.8 > 669.6
13C2-PFTeDA;4.65;5.30e3;86503;bb 8.963e+004

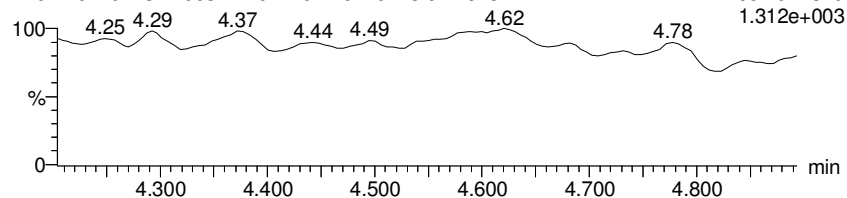


PFTrDA

170731M1_31 Smooth(Mn,1x2) F57:MRM of 2 channels,ES-
EB04-20170713 1700871-10 EB04-20170713 0.11646 662.9 > 618.9

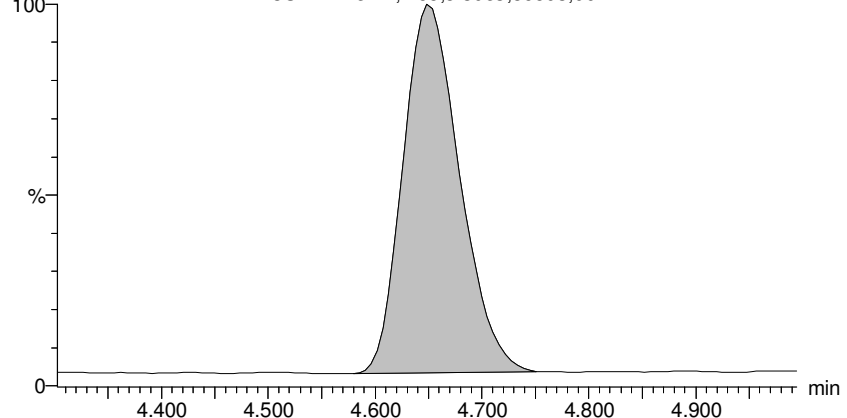


170731M1_31 Smooth(Mn,1x2) F57:MRM of 2 channels,ES-
EB04-20170713 1700871-10 EB04-20170713 0.11646 662.9 > 319



13C2-PFTeDA

170731M1_31 Smooth(Mn,1x2) F59:MRM of 2 channels,ES-
EB04-20170713 1700871-10 EB04-20170713 0.11646 714.8 > 669.6
13C2-PFTeDA;4.65;5.30e3;86503;bb 8.963e+004



Dataset: U:\Q4.PRO\results\170731M1\170731M1-31.qld

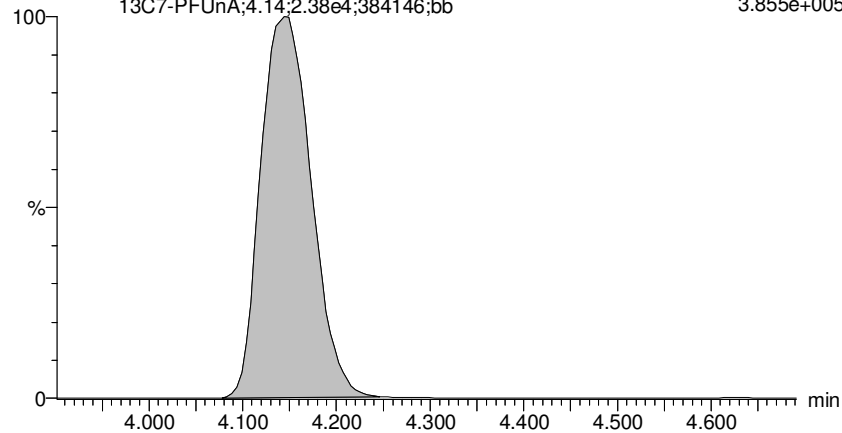
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Printed: Wednesday, August 02, 2017 16:22:31 Pacific Daylight Time

Name: 170731M1_31, Date: 31-Jul-2017, Time: 17:41:29, ID: 1700871-10 EB04-20170713 0.11646, Description: EB04-20170713

13C7-PFUnA

170731M1_31 Smooth(Mn,1x2) F46:MRM of 1 channel,ES-
EB04-20170713 1700871-10 EB04-20170713 0.11646 570.1 > 524.8
13C7-PFUnA;4.14;2.38e4;384146;bb 3.855e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-84.qld

Last Altered: Thursday, August 03, 2017 14:10:02 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:10:14 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_84, Date: 28-Jul-2017, Time: 02:31:03, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	4.68e5	8.52e3	0.120		2.96	2.91	687	3040 E *	
2	4 PFHxA	313.2 > 268.9	2.77e6	3.68e4	0.120		3.19	3.15	376	2150 E *	
3	5 PFHpA	363 > 318.9	1.66e3	1.25e5	0.120		3.45	3.41	0.166	0.360	
4	6 PFHxS	398.9 > 79.6	3.46e2	1.23e4	0.120		3.56	3.49	0.351	0.375	
5	7 PFOA	413 > 368.7	1.97e3	1.53e5	0.120		3.65	3.63	0.161		
6	9 PFNA	462.9 > 418.8		1.24e5	0.120		3.83				
7	11 PFOS	499 > 79.9	1.99e2	2.41e4	0.120		3.89	3.84	0.104	0.285	
8	12 PFDA	513 > 468.8	1.96e2	1.09e5	0.120		4.01	3.95	0.0226		
9	13 N-MeFOSAA	570.1 > 419		2.12e4	0.120		4.03				
10	14 N-EtFOSAA	584.2 > 419		1.99e4	0.120		4.10				
11	15 PFUnA	562.9 > 518.9		8.23e4	0.120		4.11				
12	17 PFDoA	612.9 > 318.8		3.89e3	0.120		4.34				
13	22 13C3-PFBS	302 > 98.8	8.52e3	1.19e5	0.120	0.031	2.96	2.91	0.358	96.9	93.3
14	23 13C2-PFHxA	315 > 269.8	3.68e4	1.19e5	0.120	0.275	3.19	3.15	1.55	46.7	112.5
15	24 13C4-PFHpA	367.2 > 321.8	1.25e5	1.19e5	0.120	0.260	3.45	3.41	5.25	168	161.6
16	25 18O2-PFHxS	403 > 102.6	1.23e4	2.78e4	0.120	0.402	3.56	3.49	5.54	114	110.2
17	26 13C2-PFOA	414.9 > 369.7	1.53e5	1.45e5	0.120	1.042	3.65	3.62	13.2	105	101.2
18	27 13C5-PFNA	468.2 > 422.9	1.24e5	1.46e5	0.120	0.792	3.83	3.79	10.7	112	107.6

*See dilution.

Dataset: U:\Q4.PRO\results\170727M1\170727M1-84.qld

Last Altered: Thursday, August 03, 2017 14:10:02 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:10:27 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_84, Date: 28-Jul-2017, Time: 02:31:03, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	29 13C8-PFOS	507 > 79.9	2.41e4	2.27e4	0.120	0.951	3.89	3.84	13.2	116	111.4
2	30 13C2-PFDA	515.1 > 469.9	1.09e5	1.31e5	0.120	0.869	4.01	3.96	10.3	98.7	95.0
3	31 d3-N-MeFOSAA	573.3 > 419	2.12e4	9.32e4	0.120	0.013	4.03	3.99	2.84	1820	135.2
4	32 d5-N-EtFOSAA	589.3 > 419	1.99e4	9.32e4	0.120	0.013	4.12	4.05	2.67	1750	129.5
5	33 13C2-PFUnA	565 > 519.8	8.23e4	9.32e4	0.120	0.928	4.17	4.12	11.0	98.8	95.2
6	34 13C2-PFDoA	615 > 569.7	3.89e3	9.32e4	0.120	0.071	4.34	4.28	0.522	61.0	58.7
7	37 13C5-PFHxA	318 > 272.9	1.19e5	1.19e5	0.120	1.000	3.19	3.15	5.00	41.5	100.0
8	38 13C3-PFHxS	401.9 > 79.9	2.78e4	2.78e4	0.120	1.000	3.56	3.49	12.5	104	100.0
9	39 13C8-PFOA	421.3 > 376	1.45e5	1.45e5	0.120	1.000	3.65	3.62	12.5	104	100.0
10	40 13C9-PFNA	472.2 > 426.9	1.46e5	1.46e5	0.120	1.000	3.83	3.79	12.5	104	100.0
11	41 13C4-PFOS	503 > 79.9	2.27e4	2.27e4	0.120	1.000	3.89	3.85	12.5	104	100.0
12	42 13C6-PFDA	519.1 > 473.7	1.31e5	1.31e5	0.120	1.000	4.01	3.96	12.5	104	100.0
13	43 13C7-PFUnA	570.1 > 524.8	9.32e4	9.32e4	0.120	1.000	4.17	4.12	12.5	104	100.0
14	44 Total PFBS	299 > 79.7	4.68e5	8.52e3	0.120		2.96		687	3040	
15	45 Total PFHxS	398.9 > 79.6	3.46e2	1.23e4	0.120		3.52		0.351	0.375	
16	46 Total PFOA	413 > 368.7	1.97e3	1.53e5	0.120		3.65		0.000		
17	47 Total PFOS	499 > 79.9	1.99e2	2.41e4	0.120		3.89		0.104	0.285	
18	48 Total N-Me-FOSAA	570.1 > 419	0.00e0	2.12e4	0.120		4.03		0.000		
19	49 Total N-EtFOSAA	584.2 > 419	0.00e0	1.99e4	0.120		4.17		0.000		

Dataset: U:\Q4.PRO\results\170727M1\170727M1-84.qld

Last Altered: Thursday, August 03, 2017 14:10:02 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:10:14 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_84, Date: 28-Jul-2017, Time: 02:31:03, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.91	468269.938	8515.811	687.354	bb	3036.8

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.49	346.089	12321.963	0.351	MM	0.4

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	7 PFOA	413 > 368.7	3.63	1974.853	152978.219	0.161	bbl	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.84	199.481	24069.828	0.104	MM	0.3

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419			21194.148		MM-I	

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419			19922.891		MM-I	

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Dataset: U:\Q4.PRO\results\170727M1\170727M1-84.qld

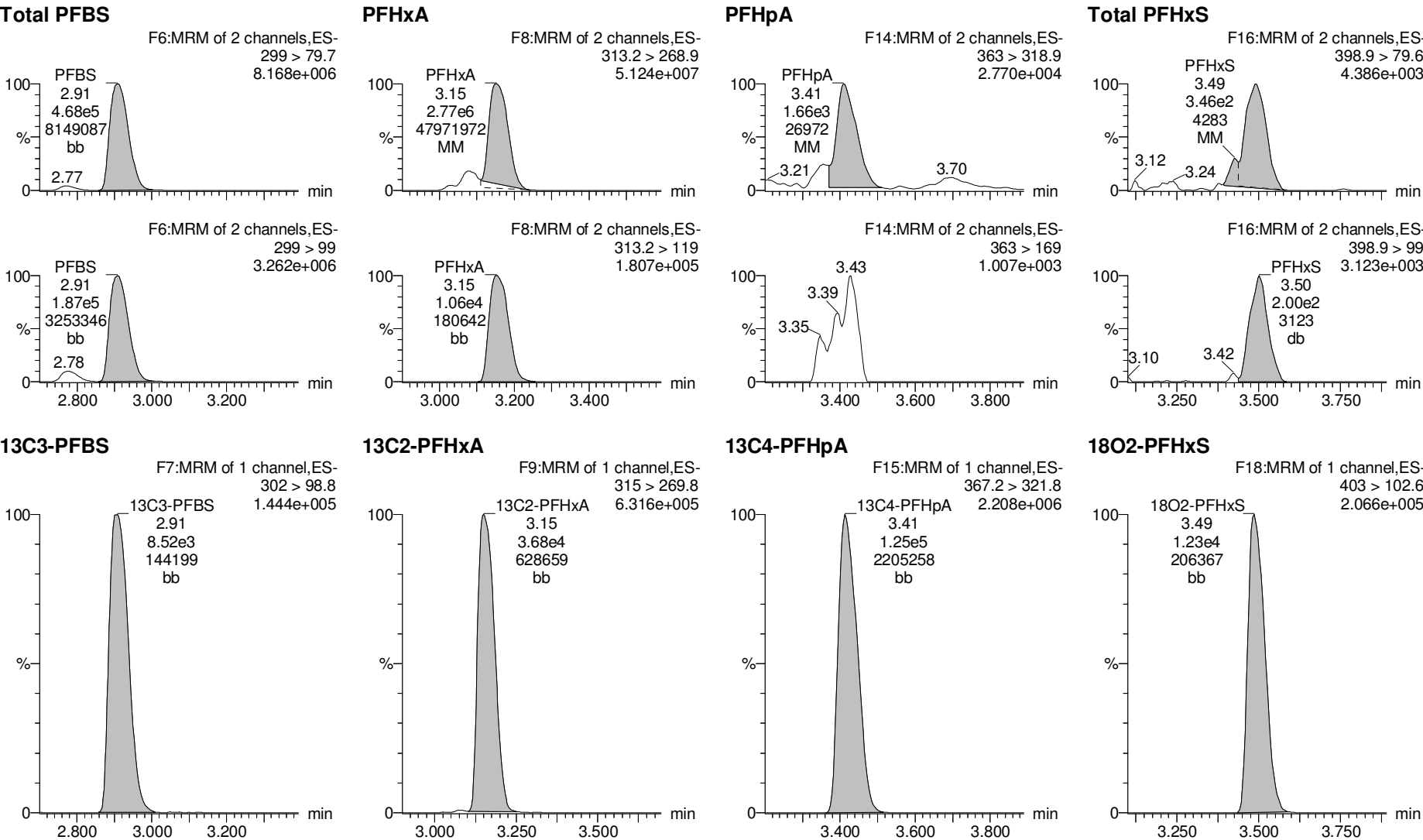
Last Altered: Thursday, August 03, 2017 14:10:02 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:10:14 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_84, Date: 28-Jul-2017, Time: 02:31:03, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

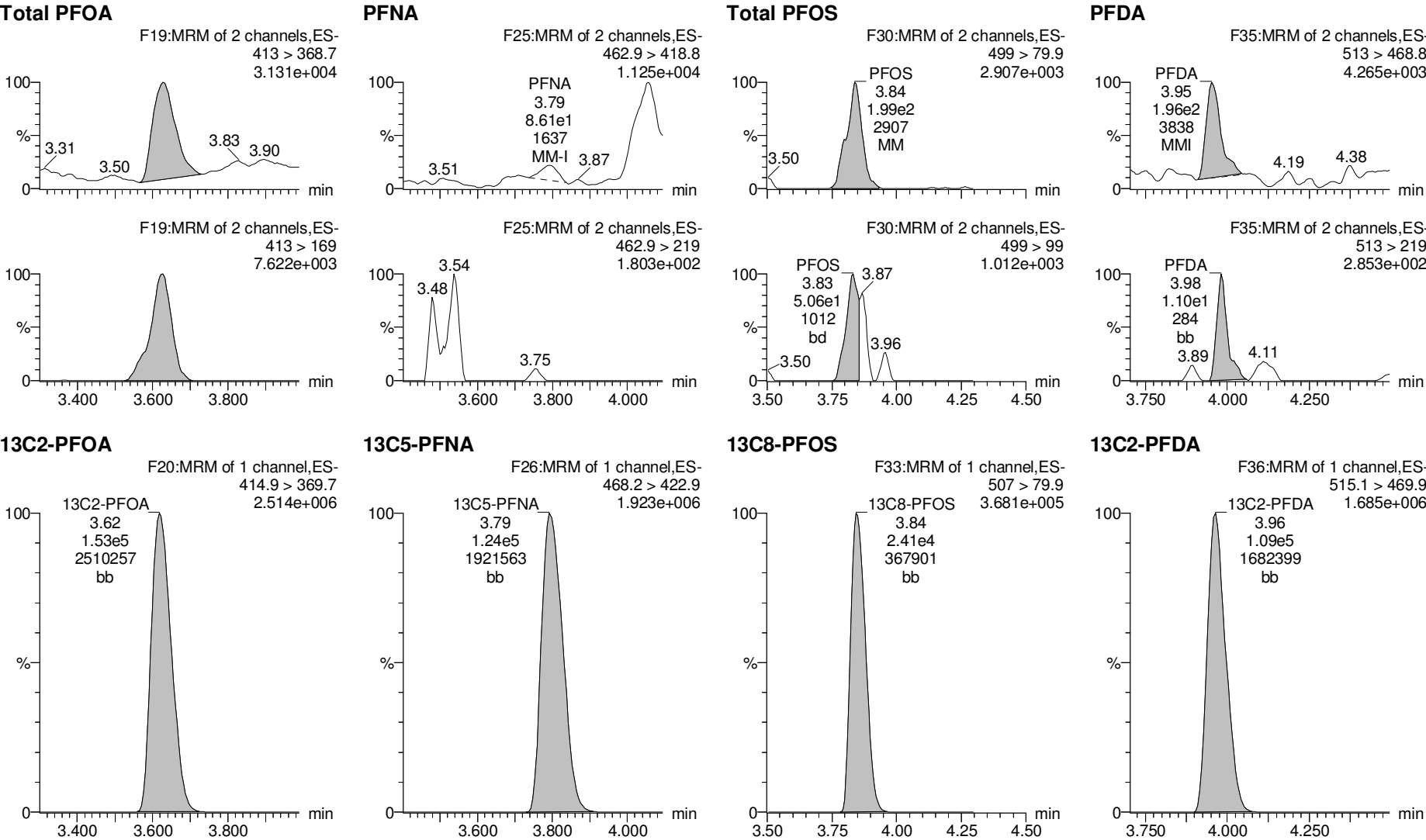


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Last Altered: Thursday, August 03, 2017 14:10:02 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:10:14 Pacific Daylight Time

Name: 170727M1_84, Date: 28-Jul-2017, Time: 02:31:03, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

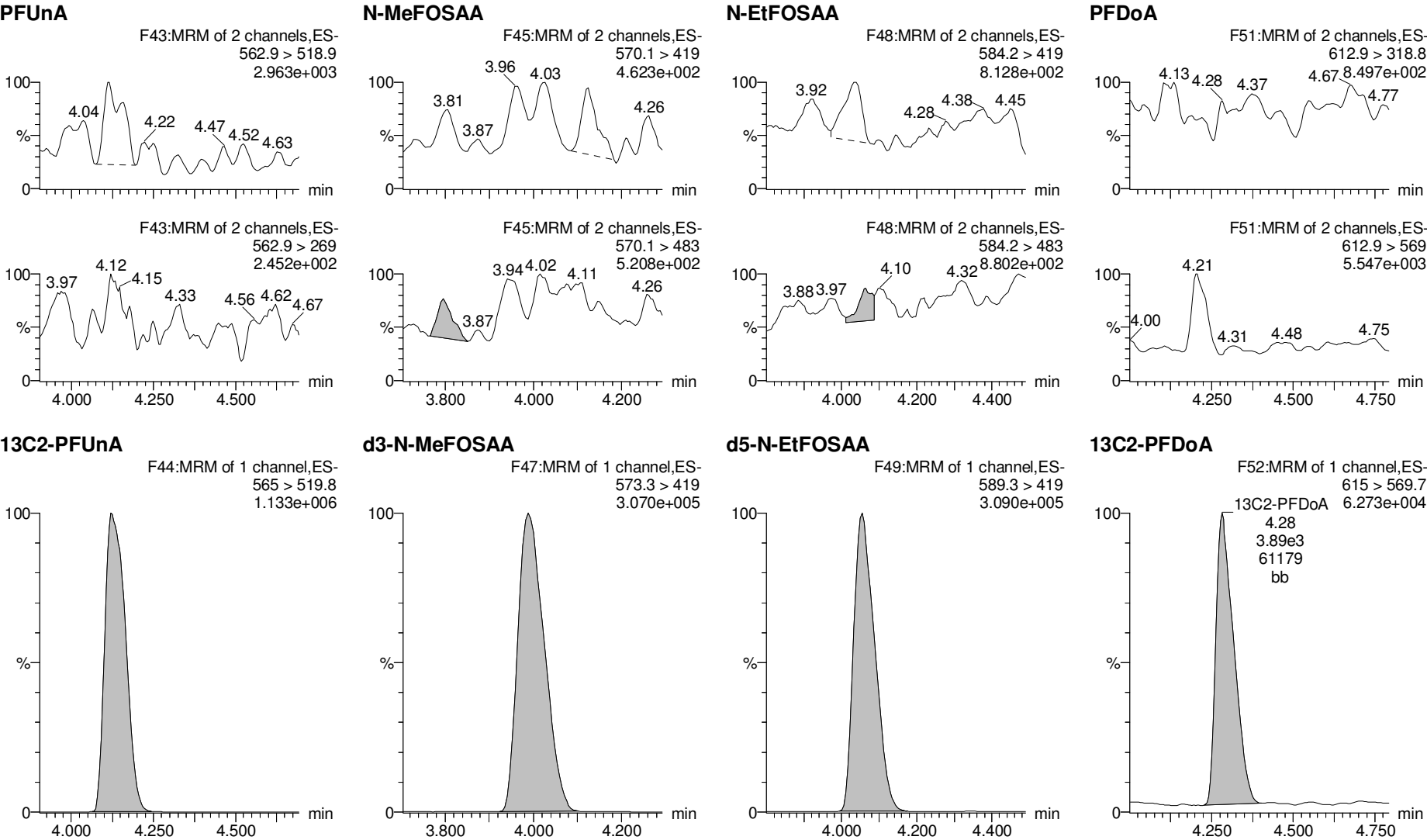


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Last Altered: Thursday, August 03, 2017 14:10:02 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:10:14 Pacific Daylight Time

Name: 170727M1_84, Date: 28-Jul-2017, Time: 02:31:03, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

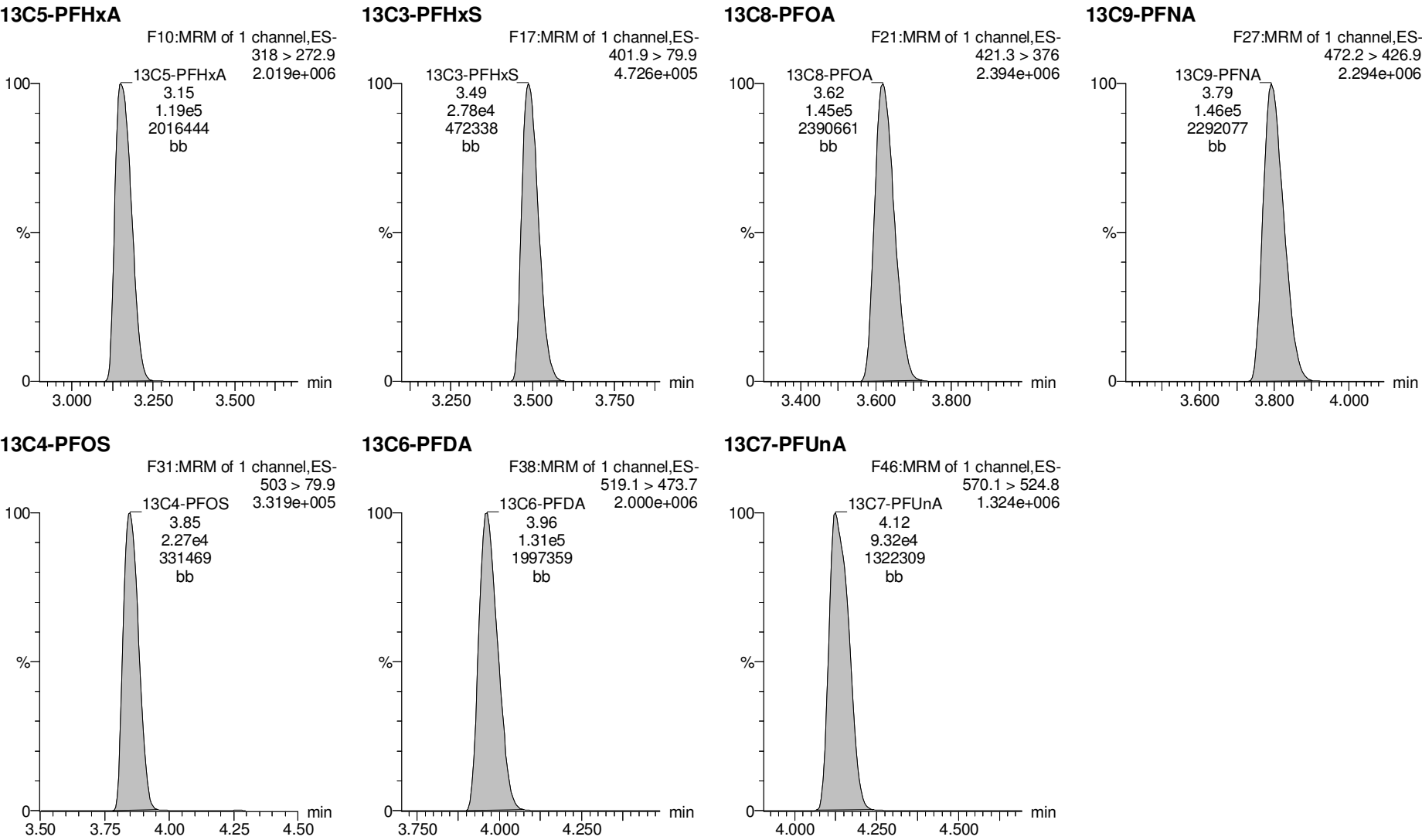


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Last Altered: Thursday, August 03, 2017 14:10:02 Pacific Daylight Time

Printed: Thursday, August 03, 2017 14:10:14 Pacific Daylight Time

Name: 170727M1_84, Date: 28-Jul-2017, Time: 02:31:03, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713



Dataset: U:\Q4.PRO\results\170731M1\170731M1-32.qld

Last Altered: Wednesday, August 02, 2017 16:23:39 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:24:22 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_32, Date: 31-Jul-2017, Time: 17:52:08, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	18 PFTTrDA	662.9 > 618.9		1.74e3	0.1204		4.50				
2	19 PFTeDA	712.9 > 668.8		5.54e3	0.1204		4.68				
3	35 13C2-PFTeDA	714.8 > 669.6	5.54e3	2.17e4	0.1204	0.762	4.68	4.65	3.20	34.8	33.6
4	43 13C7-PFUnA	570.1 > 524.8	2.17e4	2.17e4	0.1204	1.000	4.17	4.14	12.5	104	100.0

Dataset: U:\Q4.PRO\results\170731M1\170731M1-32.qld

Last Altered: Wednesday, August 02, 2017 16:23:39 Pacific Daylight Time

Printed: Wednesday, August 02, 2017 16:24:22 Pacific Daylight Time

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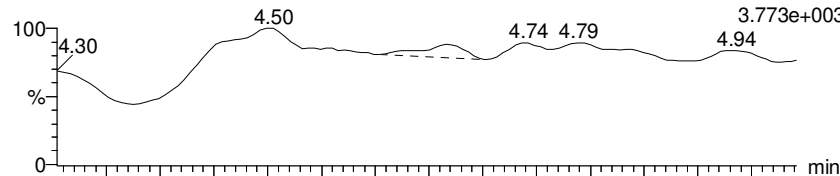
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Name: 170731M1_32, Date: 31-Jul-2017, Time: 17:52:08, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

PFTeDA

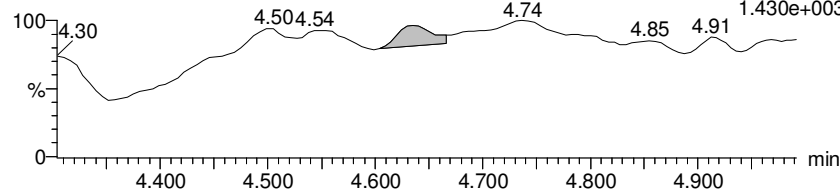
170731M1_32 Smooth(Mn,1x2)

F58:MRM of 4 channels,ES-
712.9 > 668.8
3.773e+003



170731M1_32 Smooth(Mn,1x2)

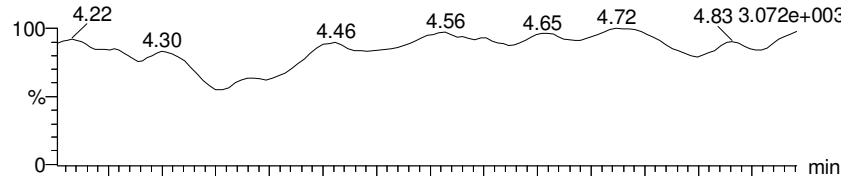
F58:MRM of 4 channels,ES-
16-GW-16_MW04-20170713 1700871-11 16-GW-16_MW04-20170713 0.12043662.9 > 369
1.430e+003



PFTrDA

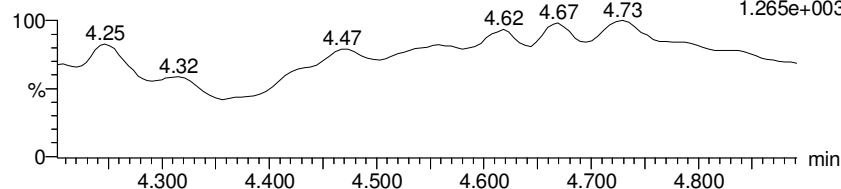
170731M1_32 Smooth(Mn,1x2)

F57:MRM of 2 channels,ES-
662.9 > 618.9
3.072e+003



170731M1_32 Smooth(Mn,1x2)

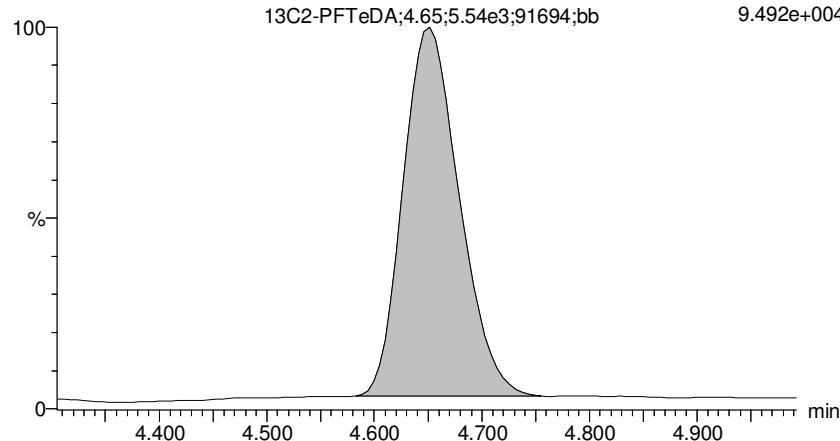
F57:MRM of 2 channels,ES-
16-GW-16_MW04-20170713 1700871-11 16-GW-16_MW04-20170713 0.12043662.9 > 319
1.265e+003



13C2-PFTeDA

170731M1_32 Smooth(Mn,1x2)

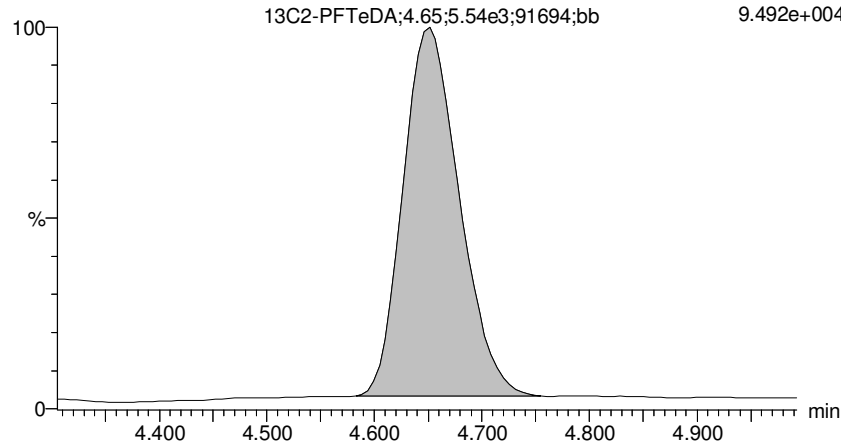
F59:MRM of 2 channels,ES-
714.8 > 669.6
9.492e+004



13C2-PFTeDA

170731M1_32 Smooth(Mn,1x2)

F59:MRM of 2 channels,ES-
714.8 > 669.6
9.492e+004



Reviewed: WJL 8/4/2017

GM 8/2/17

Work Order 1700871

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Dataset: U:\Q4.PRO\results\170731M1\170731M1-32.qld

Last Altered: Wednesday, August 02, 2017 16:23:39 Pacific Daylight Time

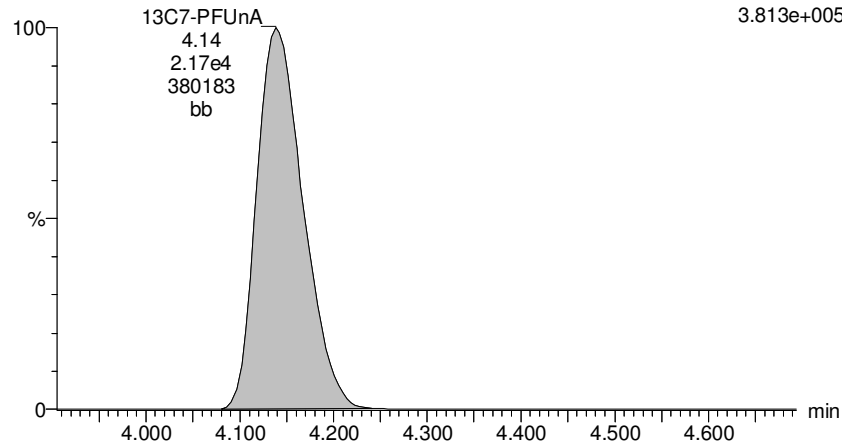
Printed: Wednesday, August 02, 2017 16:24:22 Pacific Daylight Time

Name: 170731M1_32, Date: 31-Jul-2017, Time: 17:52:08, ID: 1700871-11 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

13C7-PFUnA

170731M1_32 Smooth(Mn,1x2)

F46:MRM of 1 channel,ES-
570.1 > 524.8
3.813e+005



Dataset: U:\Q4.PRO\results\170803M2\170803M2-11.qld

Last Altered: Friday, August 04, 2017 10:38:18 Pacific Daylight Time

Printed: Friday, August 04, 2017 10:40:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-27-17.mdb 28 Jul 2017 08:06:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Name: 170803M2_11, Date: 03-Aug-2017, Time: 17:49:34, ID: 1700871-11@5X 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299 > 79.7	2.12e4	3.61e2	0.1204		2.96	2.91	736	3240	
2	4 PFHxA	313.2 > 268.9	1.35e5	1.58e3	0.1204		3.19	3.16	426	2550	
3	30 13C3-PFBS	302 > 98.8	3.61e2	5.33e3	0.1204	0.034	2.96	2.92	0.338	82.3	79.3
4	31 13C2-PFHxA	315 > 269.8	1.58e3	5.33e3	0.1204	0.334	3.19	3.15	1.48	36.8	88.7
5	52 13C5-PFHxA	318 > 272.9	5.33e3	5.33e3	0.1204	1.000	3.19	3.16	5.00	41.5	100.0
6	59 Total PFBS	299 > 79.7	2.15e4	3.61e2	0.1204		2.96		744	3280	

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Dataset: U:\Q4.PRO\results\170803M2\170803M2-11.qld

Last Altered: Friday, August 04, 2017 10:38:18 Pacific Daylight Time

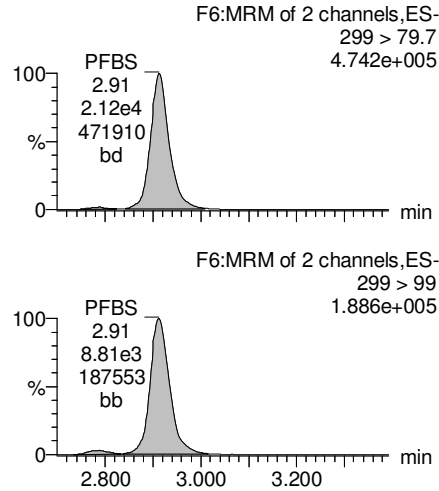
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-27-17.mdb 28 Jul 2017 08:06:09

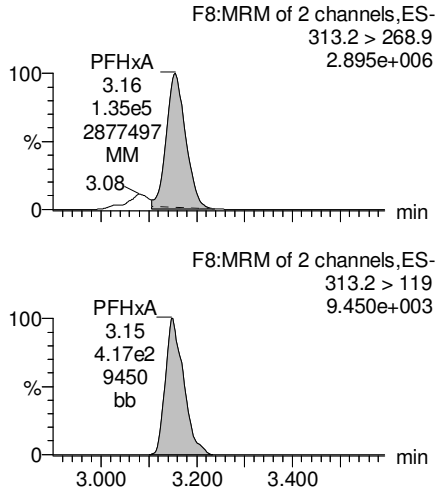
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Name: 170803M2_11, Date: 03-Aug-2017, Time: 17:49:34, ID: 1700871-11@5X 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

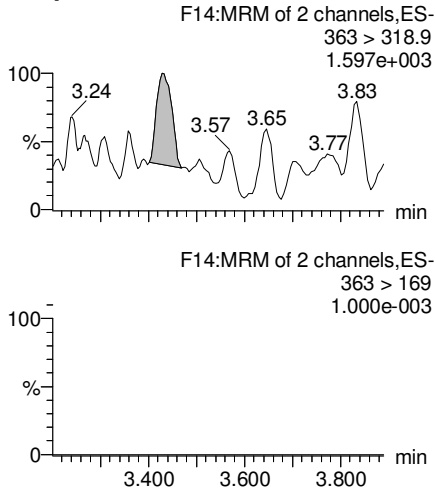
Total PFBS



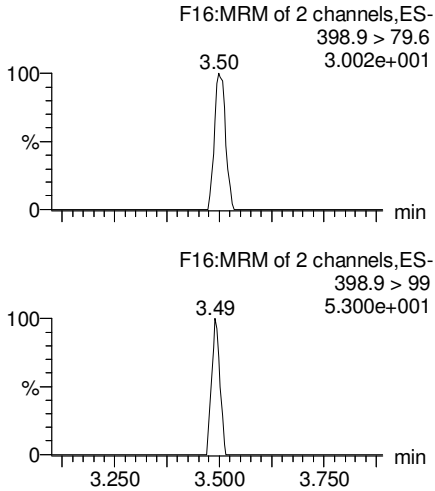
PFHxA



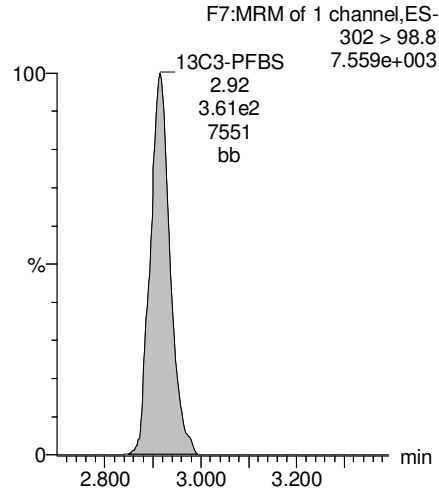
PFHpA



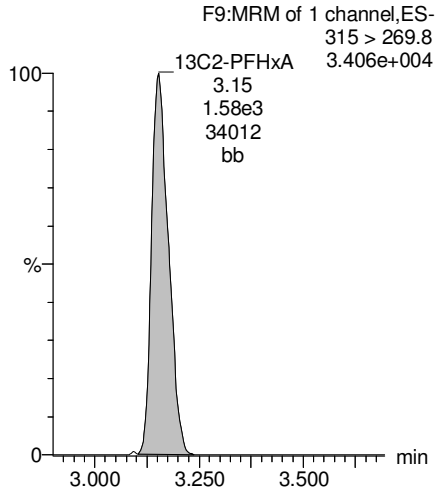
Total PFHxS



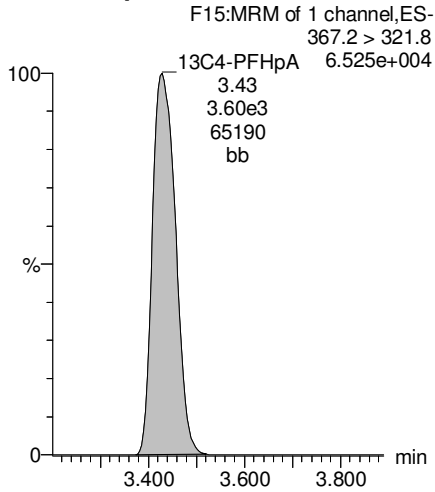
13C3-PFBS



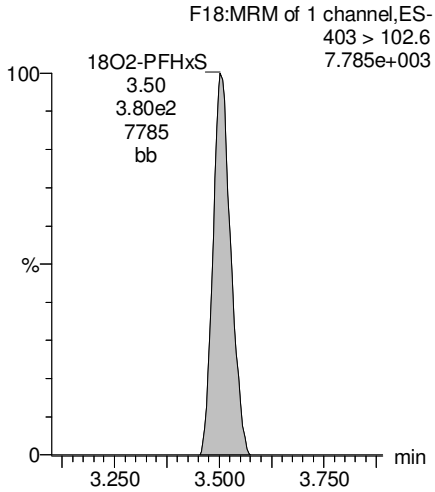
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



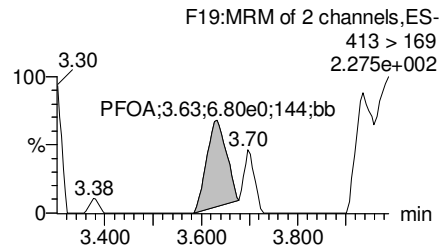
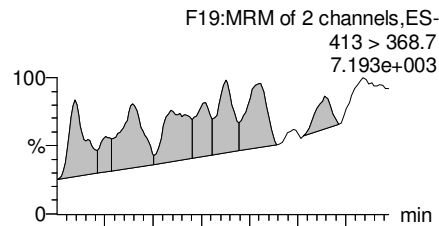
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Last Altered: Friday, August 04, 2017 10:38:18 Pacific Daylight Time

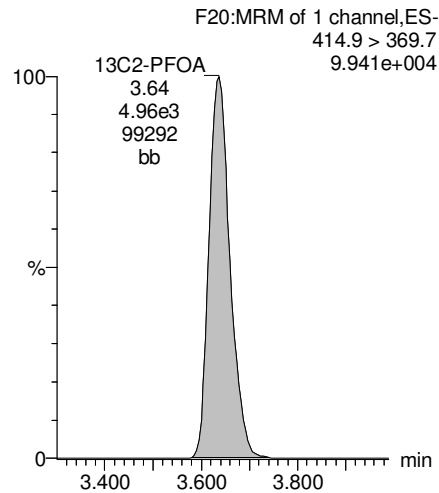
Printed: Friday, August 04, 2017 10:40:02 Pacific Daylight Time

Name: 170803M2_11, Date: 03-Aug-2017, Time: 17:49:34, ID: 1700871-11@5X 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

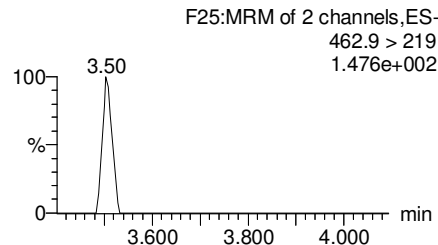
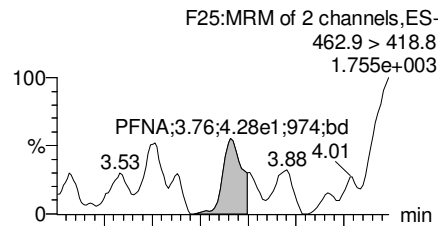
Total PFOA



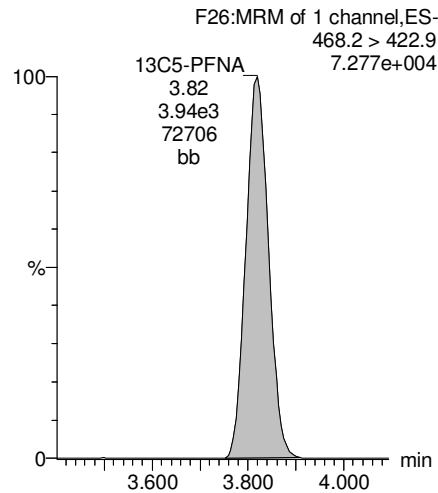
13C2-PFOA



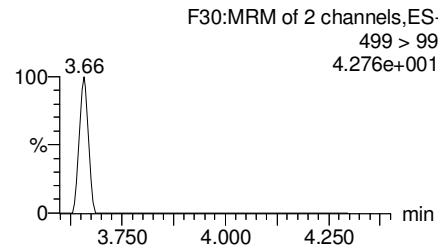
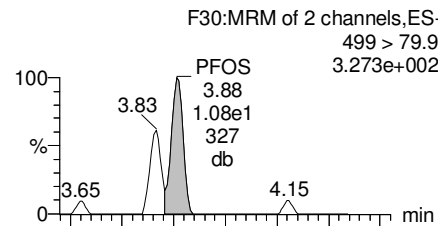
PFNA



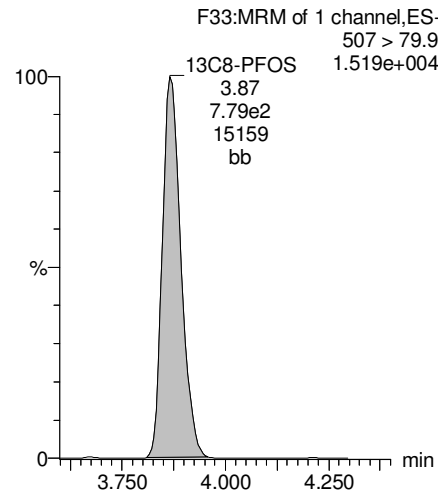
13C5-PFNA



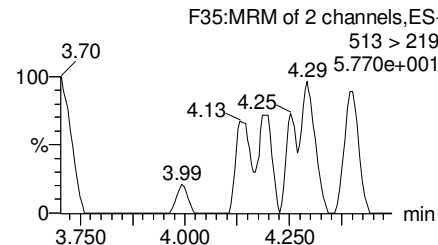
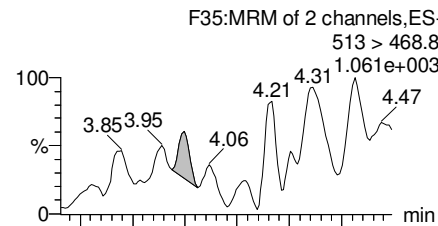
Total PFOS



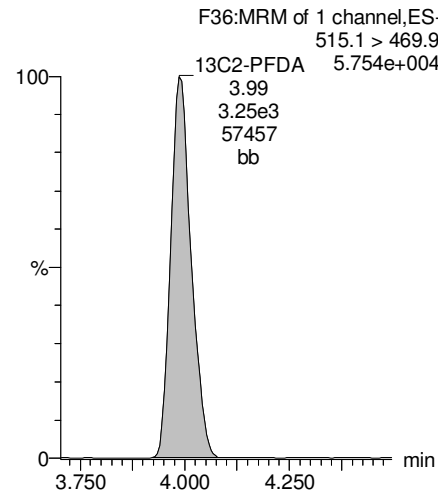
13C8-PFOS



PFDA



13C2-PFDA



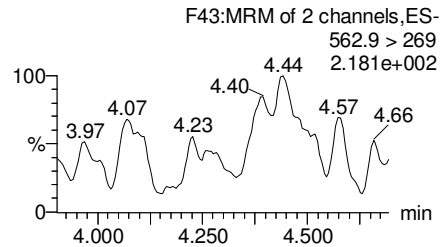
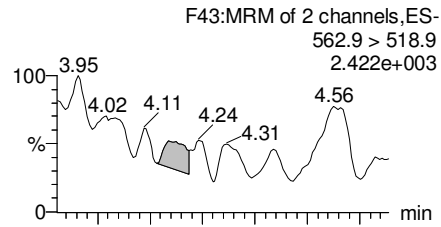
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170803M2\170803M2-11.qld

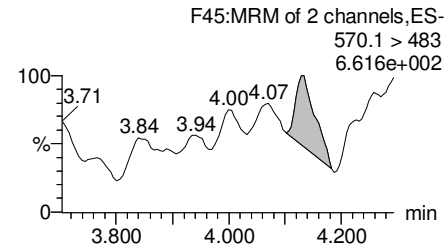
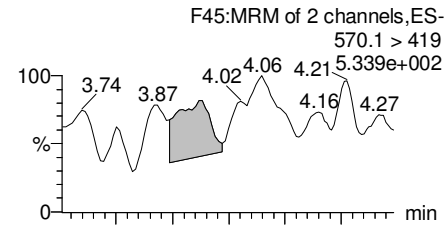
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Name: 170803M2_11, Date: 03-Aug-2017, Time: 17:49:34, ID: 1700871-11@5X 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

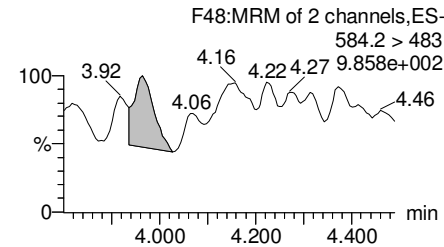
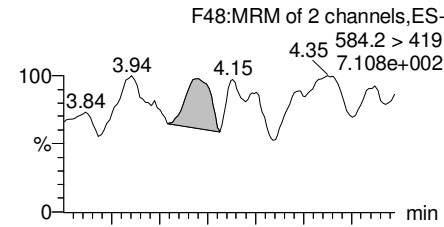
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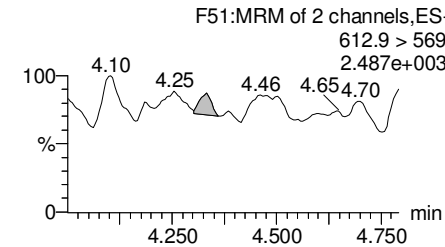
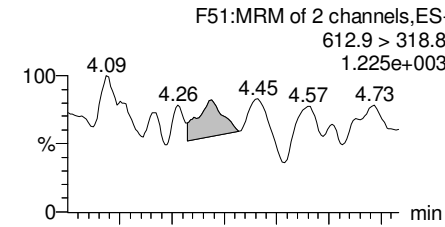
N-MeFOSAA



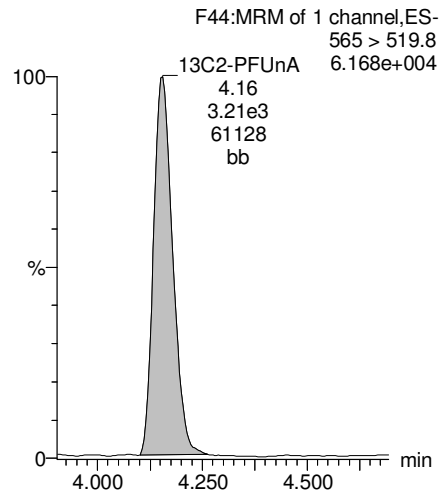
N-EtFOSAA



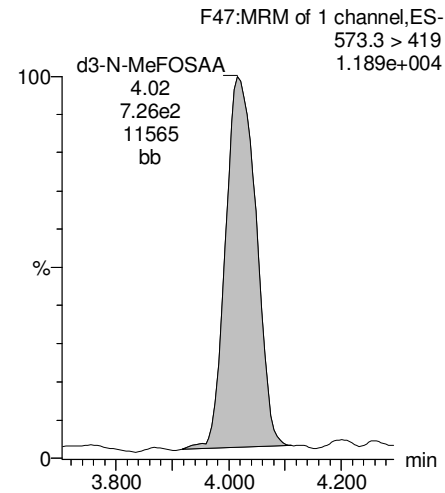
PFDaA



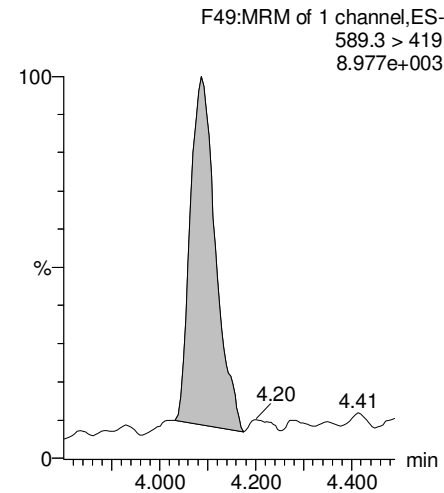
13C2-PFUnA



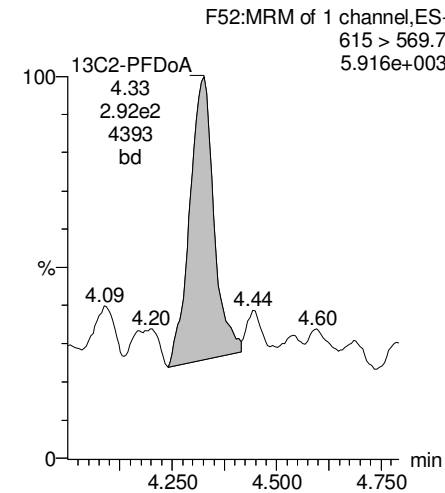
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



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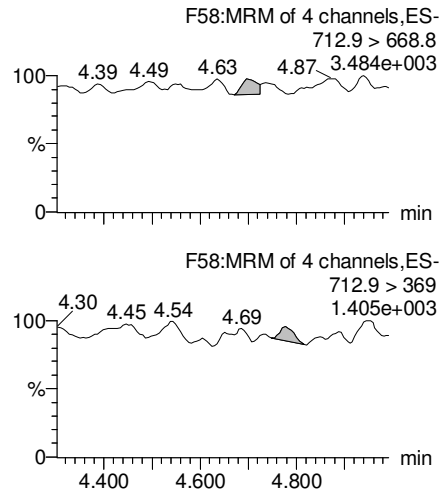
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Last Altered: Friday, August 04, 2017 10:38:18 Pacific Daylight Time

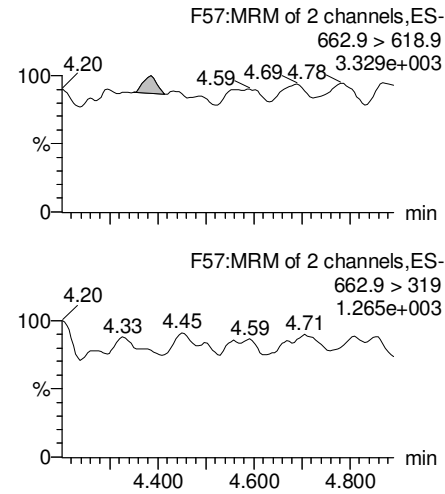
Printed: Friday, August 04, 2017 10:40:02 Pacific Daylight Time

Name: 170803M2_11, Date: 03-Aug-2017, Time: 17:49:34, ID: 1700871-11@5X 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713

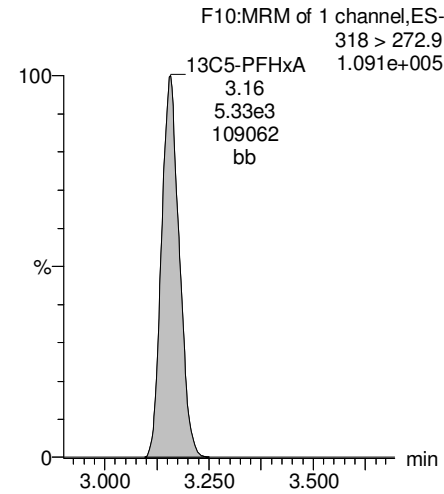
PFTeDA



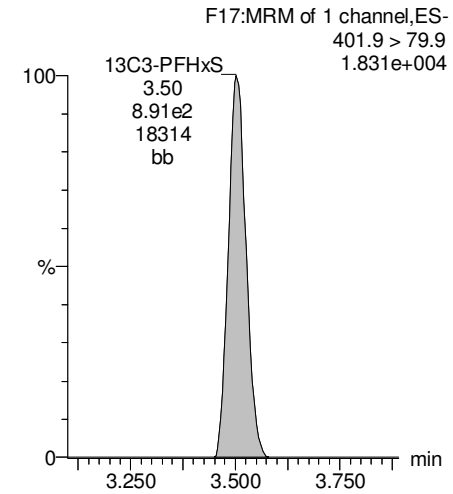
PFTrDA



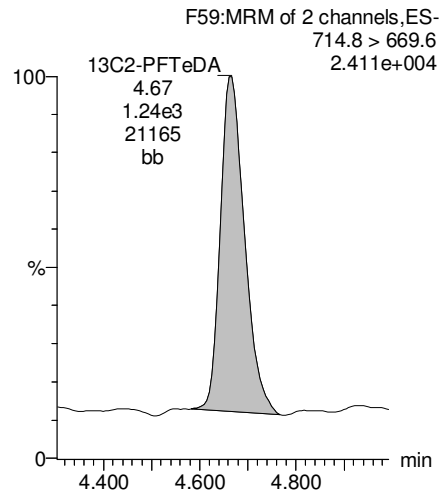
13C5-PFHxA



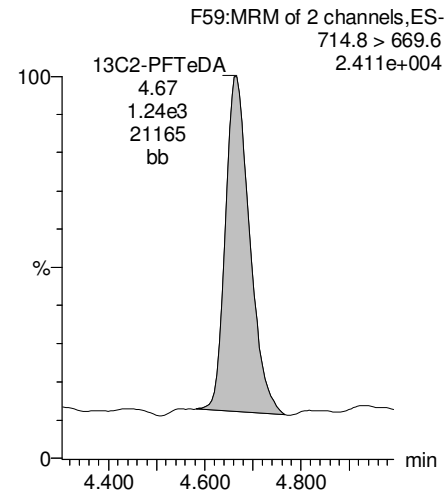
13C3-PFHxS



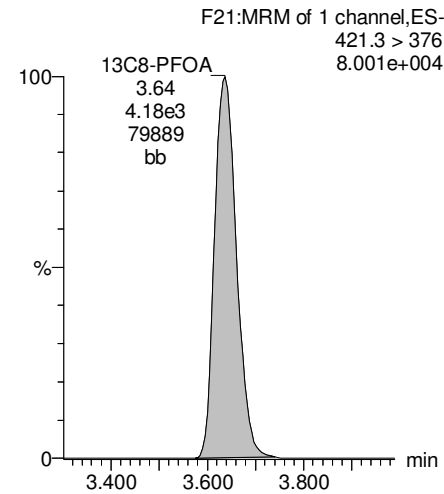
13C2-PFTeDA



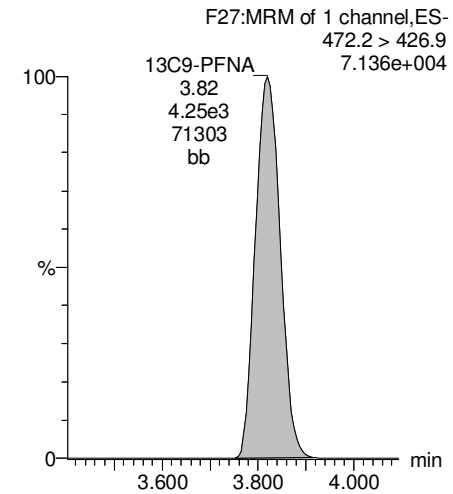
13C2-PFTeDA



13C8-PFOA



13C9-PFNA



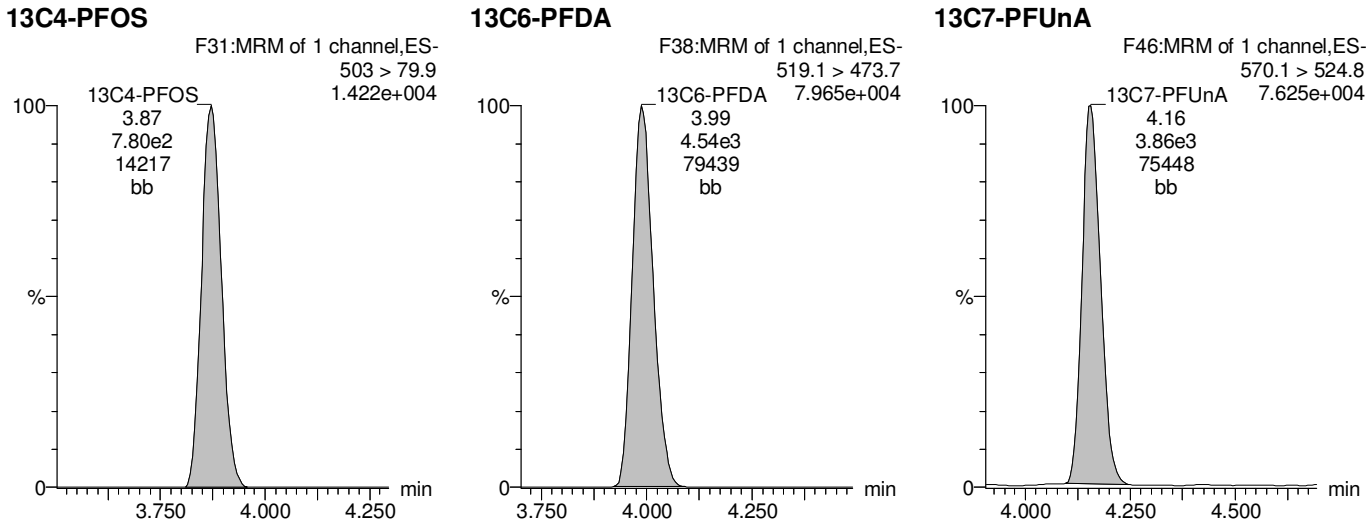
Vista Analytical Laboratory

Dataset: U:\Q4.PRO\results\170803M2\170803M2-11.qld

Last Altered: Friday, August 04, 2017 10:38:18 Pacific Daylight Time

Printed: Friday, August 04, 2017 10:40:02 Pacific Daylight Time

Name: 170803M2_11, Date: 03-Aug-2017, Time: 17:49:34, ID: 1700871-11@5X 16-GW-16_MW04-20170713 0.12043, Description: 16-GW-16_MW04-20170713



CONTINUING CALIBRATION

Dataset: U:\Q4.PRO\results\170727M1\170727M1-47.qld

Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time
Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

Ⓐ Not used.

AC
7/30/17

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.61e4	1.83e4	1.0000		1.32	1.34	11.0	9.55	95.5
2	2 PFPeA	263.1 > 218.9	3.45e4	4.50e4	1.0000		2.77	2.64	9.58	9.51	95.1
3	3 PFBS	299 > 79.7	8.11e3	5.52e3	1.0000		2.96	2.89	18.4	9.71	97.1
4	4 PFHxA	313.2 > 268.9	5.75e4	2.02e4	1.0000		3.19	3.14	14.2	9.70	97.0
5	5 PFHpA	363 > 318.9	4.37e4	4.61e4	1.0000		3.45	3.41	11.9	9.54	95.4
6	6 PFHxS	398.9 > 79.6	5.44e3	4.06e3	1.0000		3.56	3.48	16.8	10.1	100.5
7	7 PFOA	413 > 368.7	4.88e4	6.18e4	1.0000		3.65	3.62	9.88	9.91	99.1
8	8 PFHpS	448.9 > 98.8	4.31e3	6.18e4	1.0000		3.65	3.67	0.871	9.99	99.9
9	9 PFNA	462.9 > 418.8	4.62e4	5.52e4	1.0000		3.83	3.79	10.5	9.70	97.0
10	10 PFOSA	498.1 > 77.8	7.38e3	9.11e3	1.0000		3.84	3.80	10.1	9.26	92.6
11	11 PFOS	499 > 79.9	7.77e3	9.88e3	1.0000		3.89	3.84	9.84	9.15	91.5
12	12 PFDA	513 > 468.8	5.35e4	5.52e4	1.0000		4.01	3.96	12.1	9.71	97.1
13	13 N-MeFOSAA	570.1 > 419	1.39e4	1.11e4	1.0000		4.03	3.98	203	10.2	101.5
14	14 N-EtFOSAA	584.2 > 419	1.05e4	1.15e4	1.0000		4.10	4.05	148	9.65	96.5
15	15 PFUnA	562.9 > 518.9	3.12e4	5.72e4	1.0000		4.17	4.12	6.82	10.5	105.2
16	16 PFDS	598.9 > 98.7	3.10e3	5.72e4	1.0000		4.22	4.17	0.677	9.99	99.9
17	17 PFDoA	612.9 > 318.8	2.52e3	3.82e3	1.0000		4.34	4.28	8.23	8.80	88.0
18	18 PFTTrDA	662.9 > 618.9	1.75e4	3.82e3	1.0000		4.50	4.44	57.1	6.65	Ⓐ 66.5
19	19 PFTeDA	712.9 > 668.8	4.39e3	5.26e3	1.0000		4.68	4.62	10.4	8.63	86.3
20	20 13C3-PFBA	216.1 > 171.8	1.83e4	2.17e4	1.0000	0.823	1.32	1.34	10.5	12.8	102.4
21	21 13C3-PFPeA	266 > 221.8	4.50e4	7.14e4	1.0000	0.264	2.77	2.64	3.15	11.9	95.5
22	22 13C3-PFBS	302 > 98.8	5.52e3	7.14e4	1.0000	0.031	2.96	2.89	0.387	12.6	100.8
23	23 13C2-PFHxA	315 > 269.8	2.02e4	7.14e4	1.0000	0.275	3.19	3.14	1.41	5.14	102.9
24	24 13C4-PFHpA	367.2 > 321.8	4.61e4	7.14e4	1.0000	0.260	3.45	3.41	3.23	12.4	99.3
25	25 18O2-PFHxS	403 > 102.6	4.06e3	1.02e4	1.0000	0.402	3.56	3.49	4.98	12.4	99.1
26	26 13C2-PFOA	414.9 > 369.7	6.18e4	5.99e4	1.0000	1.042	3.65	3.61	12.9	12.4	99.0
27	27 13C5-PFNA	468.2 > 422.9	5.52e4	7.01e4	1.0000	0.792	3.83	3.79	9.84	12.4	99.4
28	28 13C8-PFOSA	506.1 > 77.7	9.11e3	6.57e4	1.0000	0.175	3.84	3.79	1.74	9.93	79.5
29	29 13C8-PFOS	507 > 79.9	9.88e3	9.56e3	1.0000	0.951	3.89	3.84	12.9	13.6	108.7
30	30 13C2-PFDA	515.1 > 469.9	5.52e4	6.82e4	1.0000	0.869	4.01	3.96	10.1	11.6	93.1
31	31 d3-N-MeFOSAA	573.3 > 419	1.11e4	6.57e4	1.0000	0.013	4.03	3.98	2.12	164	100.9

10130

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Dataset: U:\Q4.PRO\results\170727M1\170727M1-47.qld

Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Ⓐ Not used.

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32 d5-N-EtFOSAA	589.3 > 419	1.15e4	6.57e4	1.0000	0.013	4.12	4.05	2.18	172	105.6
33	33 13C2-PFUnA	565 > 519.8	5.72e4	6.57e4	1.0000	0.928	4.17	4.12	10.9	11.7	93.8
34	34 13C2-PFDoA	615 > 569.7	3.82e3	6.57e4	1.0000	0.071	4.34	4.28	0.728	10.2	81.9
35	35 13C2-PFTeDA	714.8 > 669.6	5.26e3	6.57e4	1.0000	0.273	4.68	4.62	1.00	3.67	29.3
36	36 13C4-PFBA	217 > 171.8	2.17e4	2.17e4	1.0000	1.000	1.32	1.33	12.5	12.5	100.0
37	37 13C5-PFHxA	318 > 272.9	7.14e4	7.14e4	1.0000	1.000	3.19	3.14	5.00	5.00	100.0
38	38 13C3-PFHxS	401.9 > 79.9	1.02e4	1.02e4	1.0000	1.000	3.56	3.48	12.5	12.5	100.0
39	39 13C8-PFOA	421.3 > 376	5.99e4	5.99e4	1.0000	1.000	3.65	3.61	12.5	12.5	100.0
40	40 13C9-PFNA	472.2 > 426.9	7.01e4	7.01e4	1.0000	1.000	3.83	3.79	12.5	12.5	100.0
41	41 13C4-PFOS	503 > 79.9	9.56e3	9.56e3	1.0000	1.000	3.89	3.84	12.5	12.5	100.0
42	42 13C6-PFDA	519.1 > 473.7	6.82e4	6.82e4	1.0000	1.000	4.01	3.96	12.5	12.5	100.0
43	43 13C7-PFUnA	570.1 > 524.8	6.57e4	6.57e4	1.0000	1.000	4.17	4.12	12.5	12.5	100.0

50-150
↓

Dataset: U:\Q4.PRO\results\170727M1\170727M1-47.qld

Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.89	8109.874	5518.140	18.371	bb	9.7

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.48	5442.823	4060.090	16.757	bb	10.1

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	46 Total PFOA	413 > 368.7	3.90	222.991	61805.418	0.045	bbl	
2	7 PFOA	413 > 368.7	3.62	48842.699	61805.418	9.878	bb	9.9
3	46 Total PFOA	413 > 368.7	3.39	124.238	61805.418	0.025	bbl	

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	11 PFOS	499 > 79.9	3.84	7772.019	9877.245	9.836	bb	9.2

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	13 N-MeFOSAA	570.1 > 419	3.98	13896.965	11144.938	202.626	bb	10.2

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	14 N-EtFOSAA	584.2 > 419	4.05	10463.306	11454.404	148.440	bb	9.7

Dataset: Untitled

Last Altered: Sunday, July 30, 2017 07:39:25 Pacific Daylight Time

Printed: Sunday, July 30, 2017 07:39:51 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170727M1_31	IPA	27-Jul-17	16:15:58
2	170727M1_32	ST170727M1-9 PFC CS3 17G2709	27-Jul-17	16:26:39
3	170727M1_33	IPA	27-Jul-17	16:37:56
4	170727M1_34	1700845-01@10X MW-29S-20170707 0.12034	27-Jul-17	17:33:45
5	170727M1_35	1700845-03@40X MW-27S-20170707 0.11824	27-Jul-17	17:44:30
6	170727M1_36	B7G0033-MS1@40X Matrix Spike 0.12283	27-Jul-17	17:55:16
7	170727M1_37	B7G0033-MSD1@40X Matrix Spike Dup 0.124	27-Jul-17	18:05:54
8	170727M1_38	1700732-04RE1@5X MW PFC 03 0.11929	27-Jul-17	18:16:32
9	170727M1_39	1700847-01RE1 DPH-MW10-17 0.12163	27-Jul-17	18:27:11
10	170727M1_40	1700847-02RE1 DPH-MW9-17 0.11474	27-Jul-17	18:38:43
11	170727M1_41	1700847-03RE1 DPH-MW2D 0.11785	27-Jul-17	18:49:29
12	170727M1_42	1700848-01RE1 DPH-MW7-17 0.11765	27-Jul-17	19:00:08
13	170727M1_43	1700848-02RE1 DPH-IRELAND WELL 0.11439	27-Jul-17	19:10:46
14	170727M1_44	1700848-03RE1 DPH-#1 PW 0.11705	27-Jul-17	19:21:24
15	170727M1_45	1700848-04RE1 DPH-MW1-17 0.10364	27-Jul-17	19:32:11
16	170727M1_46	IPA	27-Jul-17	19:42:49
17	170727M1_47	ST170727M1-10 PFC CS3 17G2709	27-Jul-17	19:53:28
18	170727M1_48	IPA	27-Jul-17	20:04:14

Dataset: U:\Q4.PRO\results\170727M1\170727M1-47.qld

Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

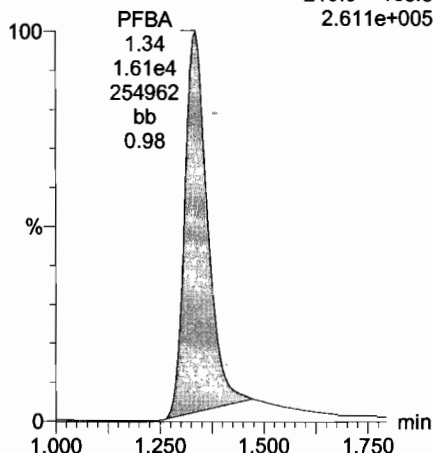
Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

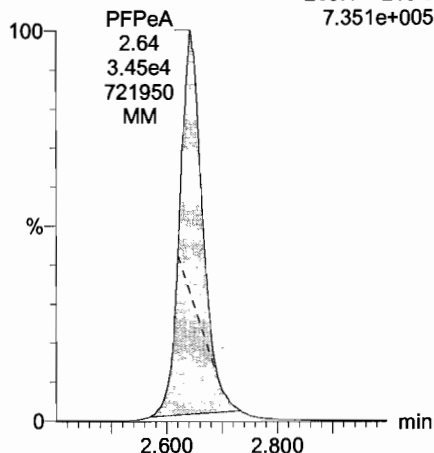
PFBA

F1:MRM of 2 channels,ES-
213.0 > 168.8
2.611e+005



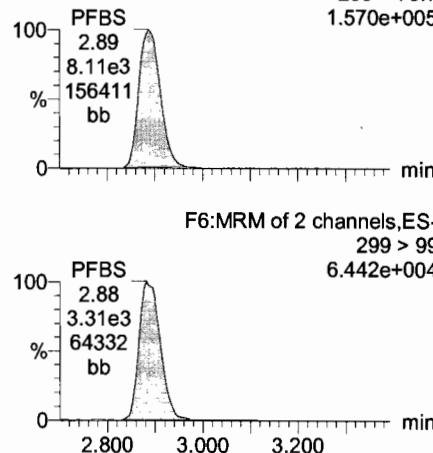
PFPeA

F4:MRM of 1 channel,ES-
263.1 > 218.9
7.351e+005



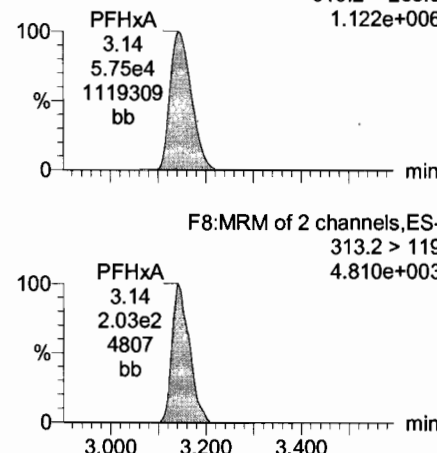
Total PFBS

F6:MRM of 2 channels,ES-
299 > 79.7
1.570e+005



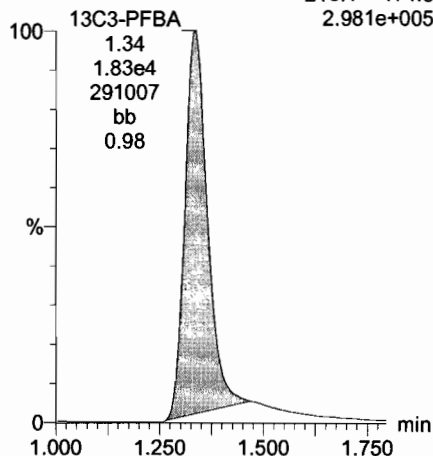
PFHxA

F8:MRM of 2 channels,ES-
313.2 > 268.9
1.122e+006



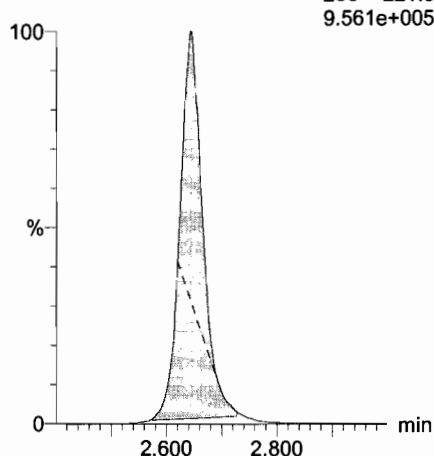
13C3-PFBA

F2:MRM of 1 channel,ES-
216.1 > 171.8
2.981e+005



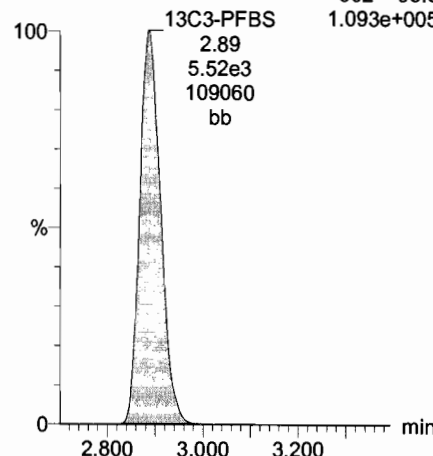
13C3-PFPeA

F5:MRM of 1 channel,ES-
266 > 221.8
9.561e+005



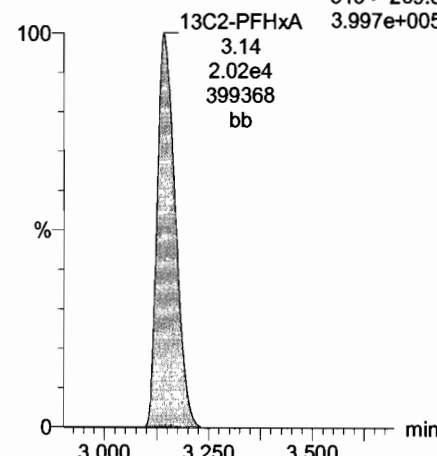
13C3-PFBS

F7:MRM of 1 channel,ES-
302 > 98.8
1.093e+005



13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
3.997e+005



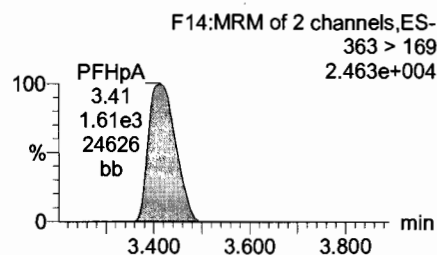
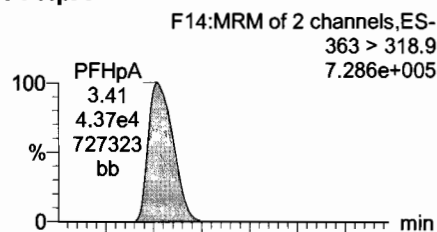
Dataset: U:\Q4.PRO\results\170727M1\170727M1-47.qld

Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

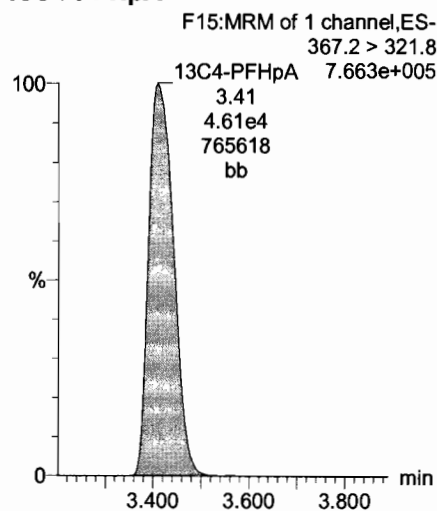
Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

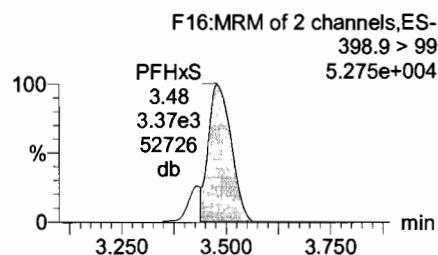
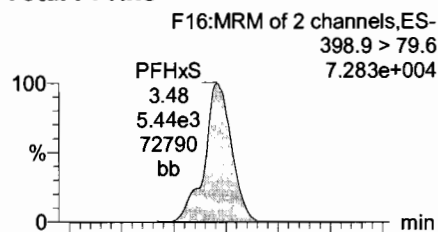
PFHpa



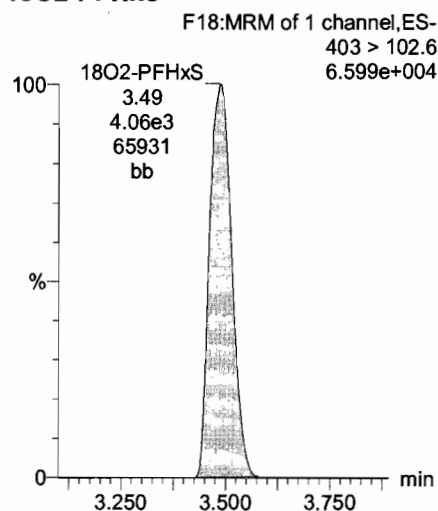
13C4-PFHpa



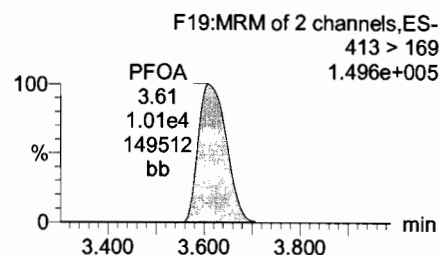
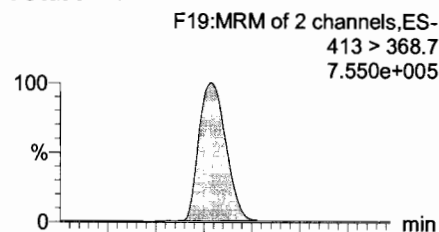
Total PFHxS



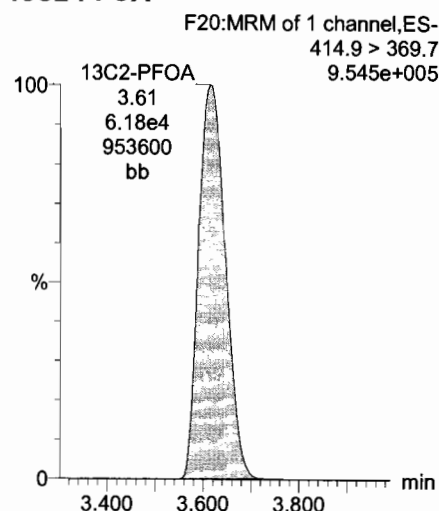
18O2-PFHxS



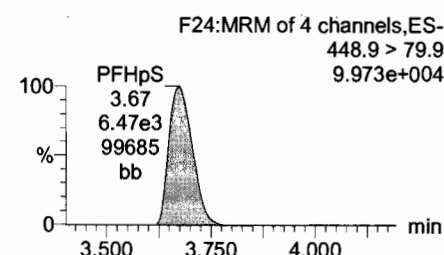
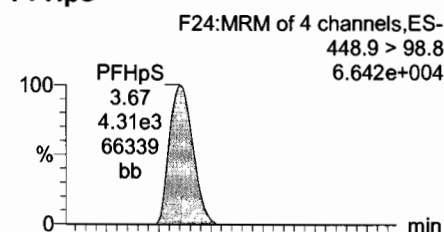
Total PFOA



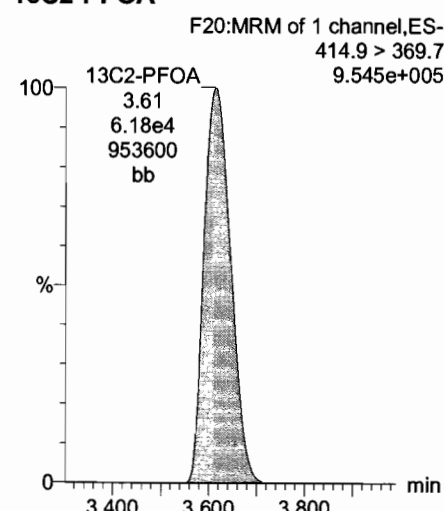
13C2-PFOA



PFHpS



13C2-PFOA



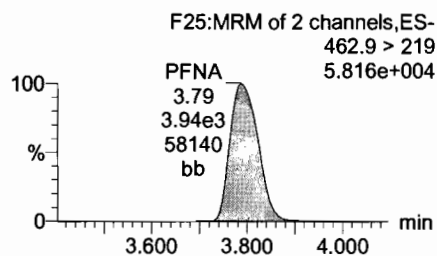
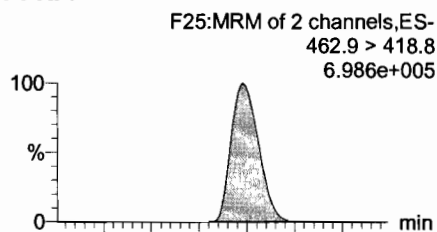
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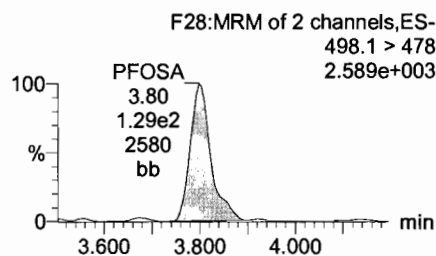
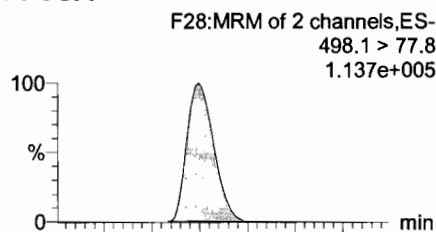
Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

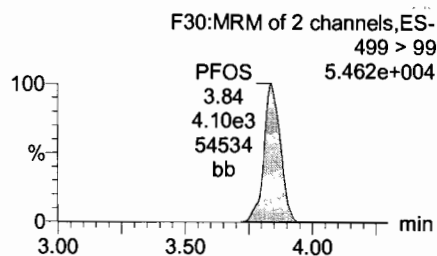
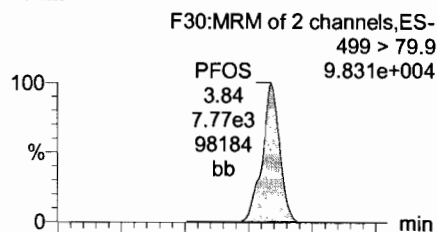
PFNA



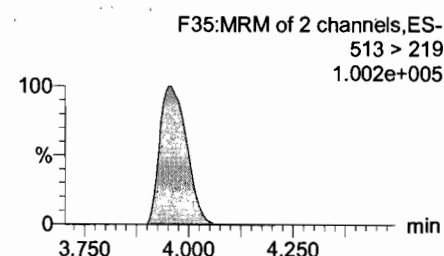
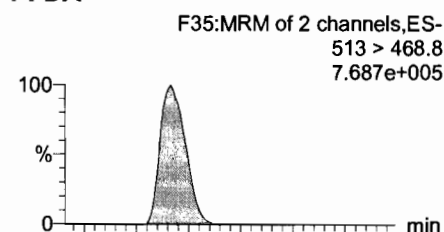
PFOSA



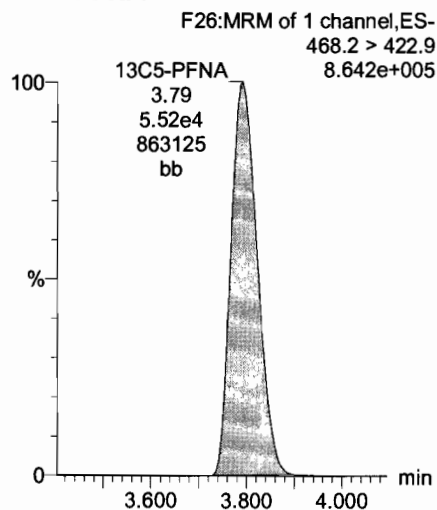
Total PFOS



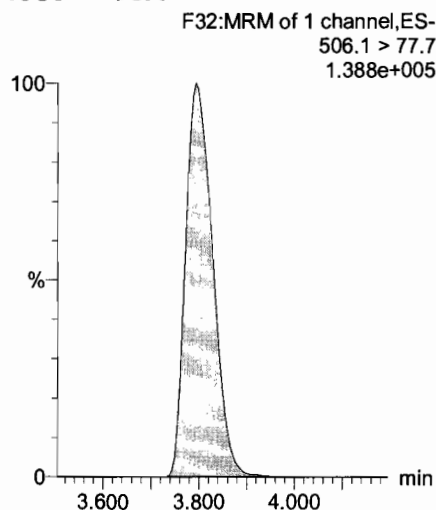
PFDA



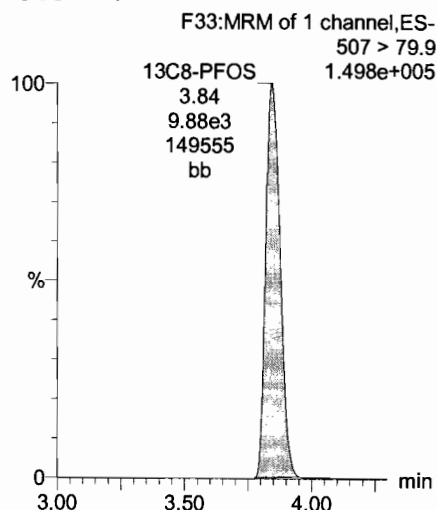
13C5-PFNA



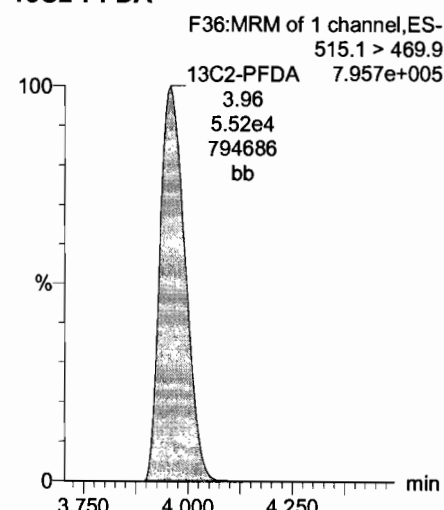
13C8-PFOSA



13C8-PFOS



13C2-PFDA



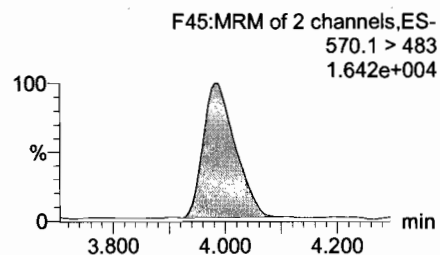
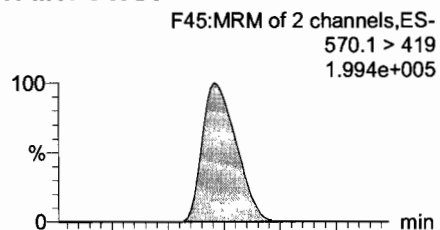
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Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

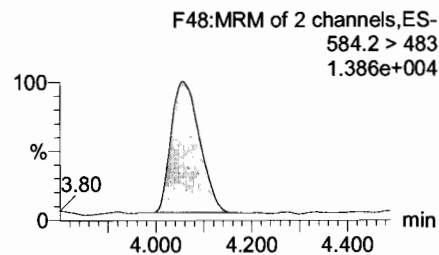
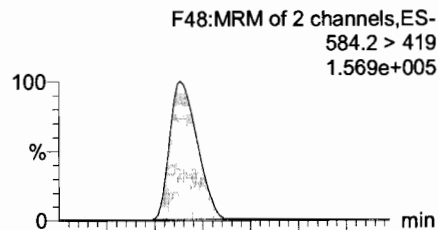
Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

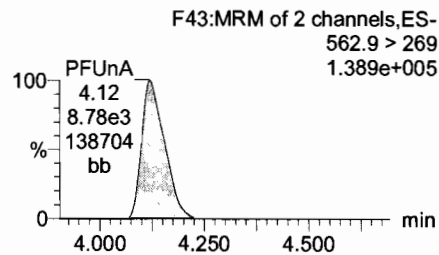
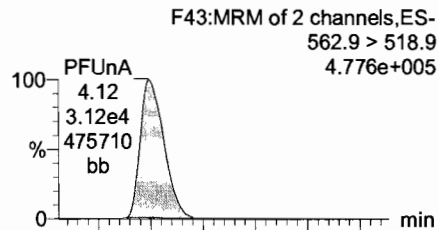
N-MeFOSAA



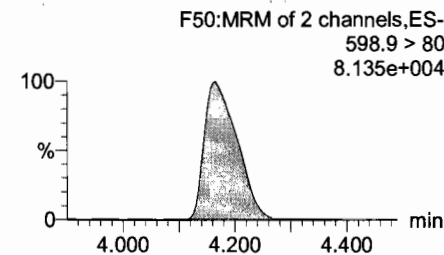
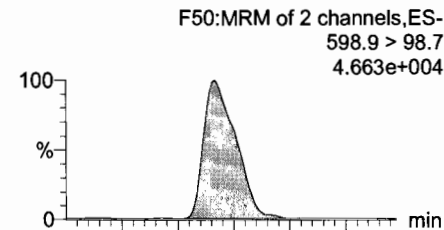
N-EtFOSAA



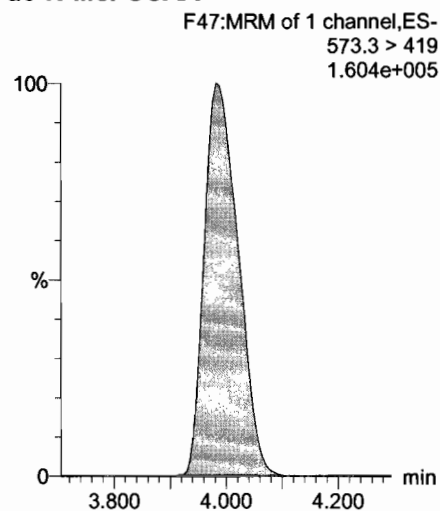
PFUnA



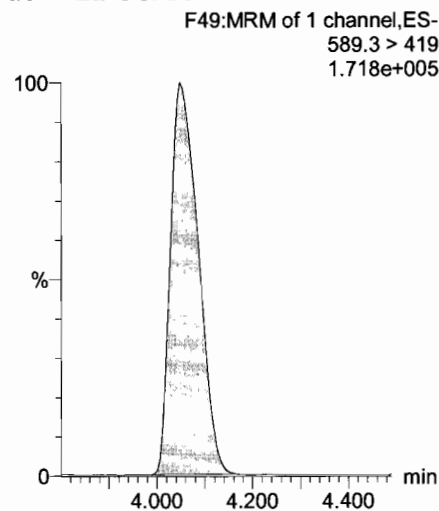
PFDS



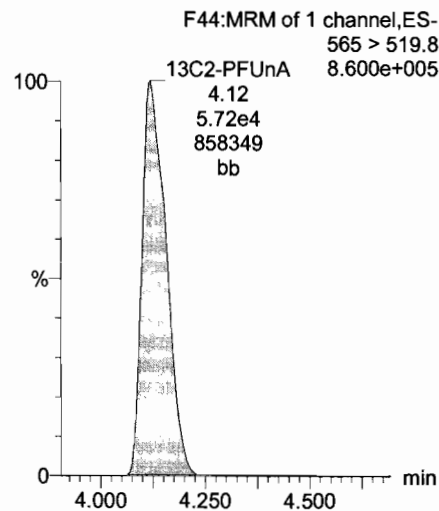
d3-N-MeFOSAA



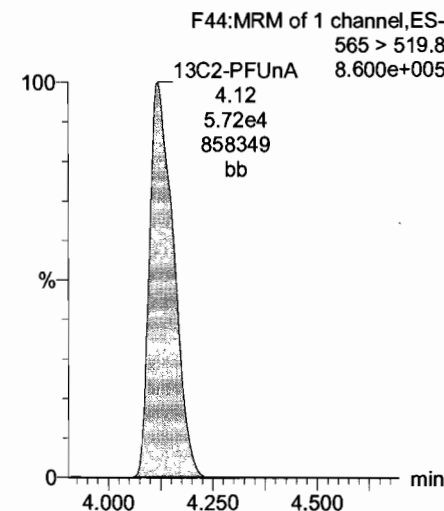
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



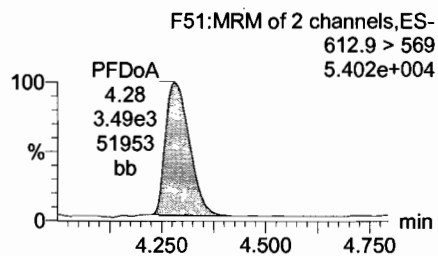
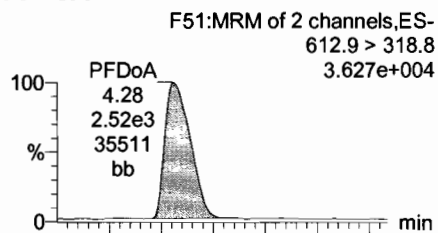
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Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

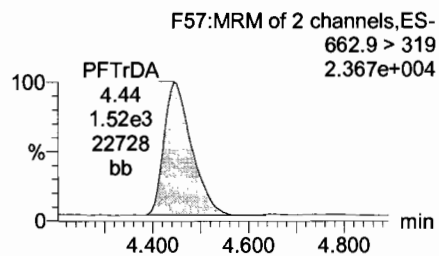
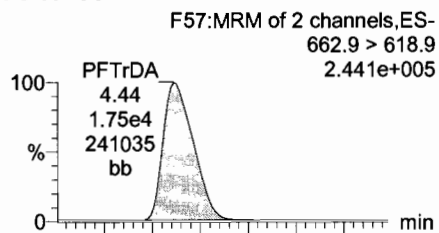
Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

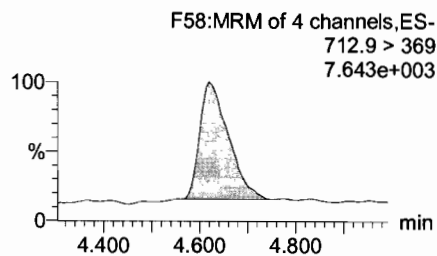
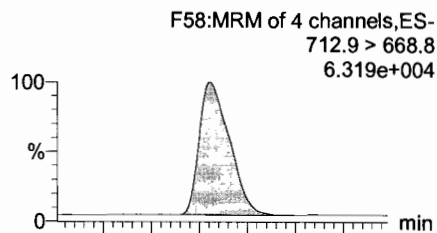
PFD_oA



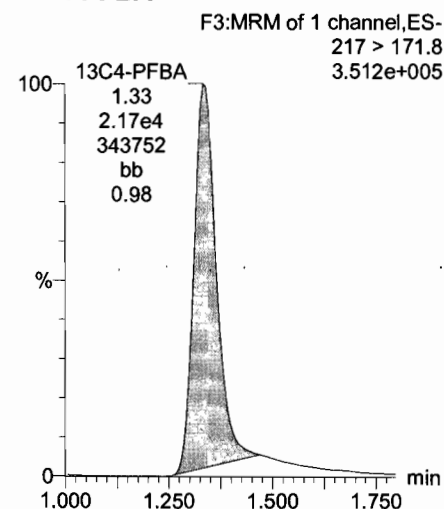
PFT_rDA



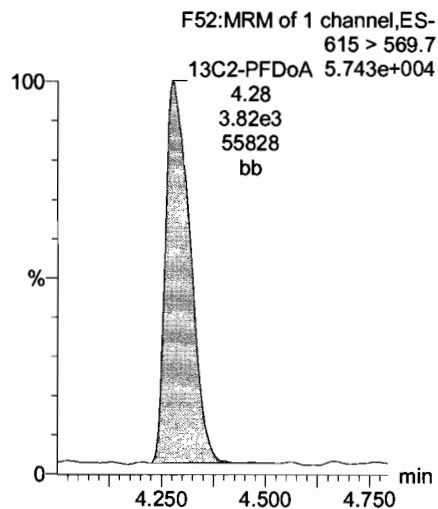
PFT_eDA



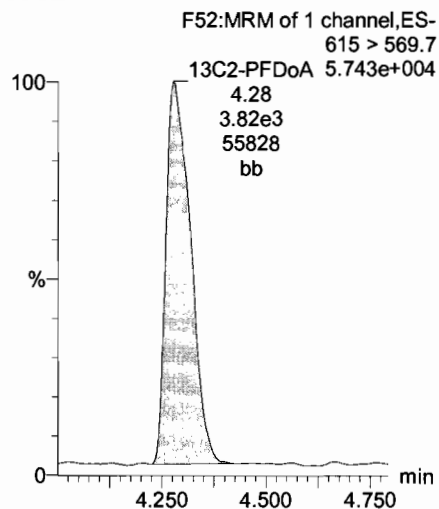
13C₄-PFBA



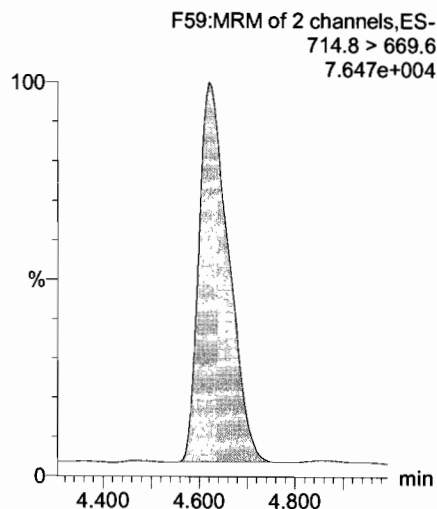
13C₂-PFD_oA



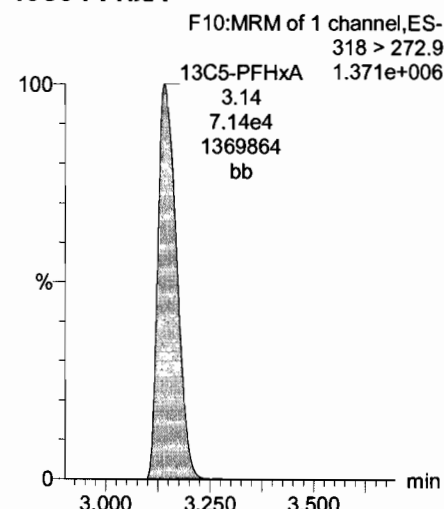
13C₂-PFD_oA



13C₂-PFT_eDA



13C₅-PFH_xA



Dataset: U:\Q4.PRO\results\170727M1\170727M1-47.qld

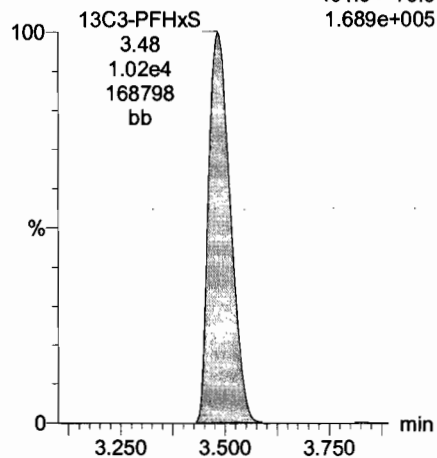
Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

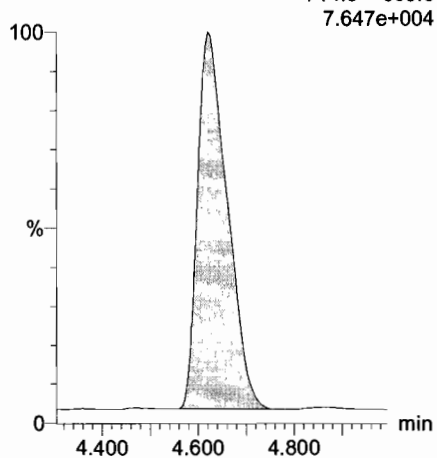
13C3-PFHxS

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.689e+005



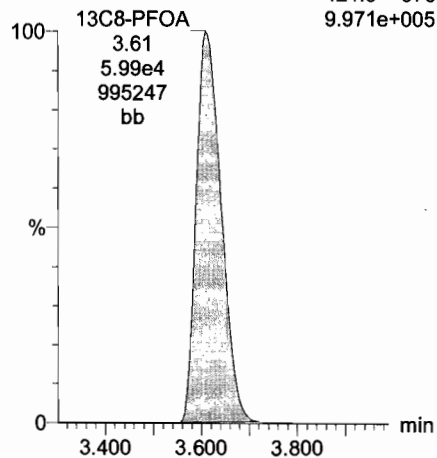
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
7.647e+004



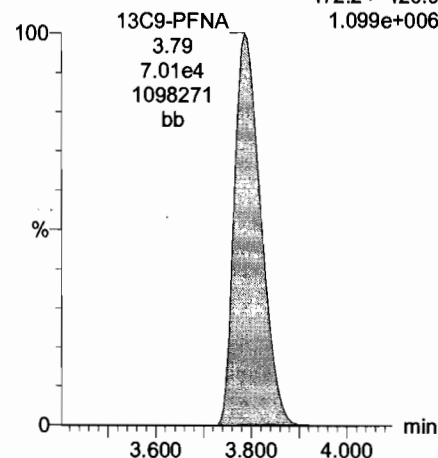
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
9.971e+005



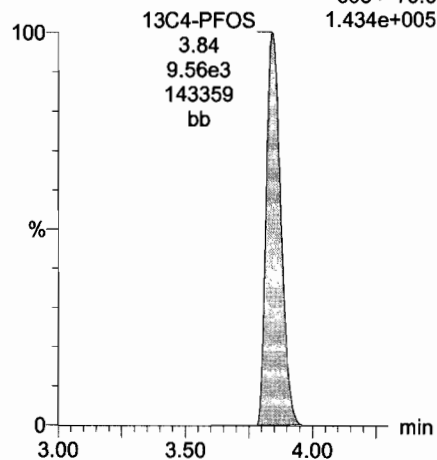
13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
1.099e+006



13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.434e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-47.qld

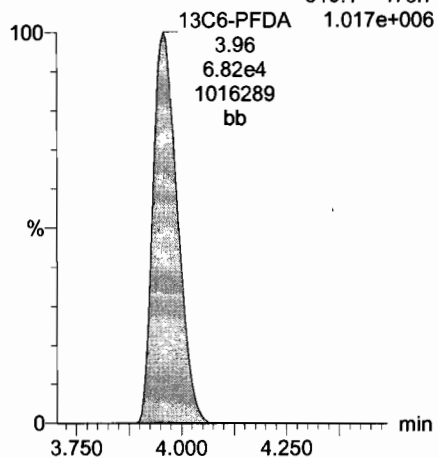
Last Altered: Friday, July 28, 2017 13:22:33 Pacific Daylight Time

Printed: Friday, July 28, 2017 13:23:21 Pacific Daylight Time

Name: 170727M1_47, Date: 27-Jul-2017, Time: 19:53:28, ID: ST170727M1-10 PFC CS3 17G2709, Description: PFC CS3 17G2709

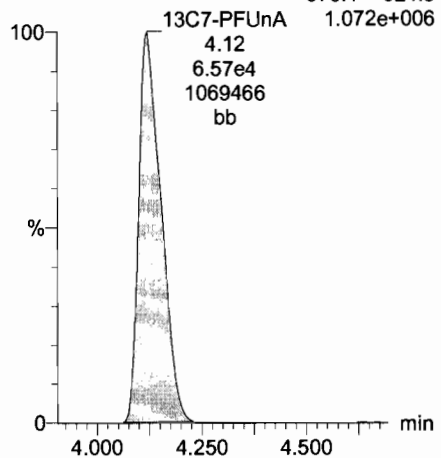
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8



Dataset: U:\Q4.PRO\results\170727M1\170727M1-66.qld

Last Altered: Tuesday, August 01, 2017 11:56:07 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 11:56:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

ⓐ out of limit criteria.

Name: 170727M1_66, Date: 27-Jul-2017, Time: 23:16:34, ID: ST170727M1-11 PFC CS-1 17G2705, Description: PFC CS-1 17G2705

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.00e3	1.92e4	1.000		1.32	1.34	0.654	0.490	97.9
2	2 PFPeA	263.1 > 218.9	2.16e3	4.76e4	1.000		2.77	2.65	0.568	0.482	96.5
3	3 PFBS	299 > 79.7	4.71e2	5.55e3	1.000		2.96	2.90	1.06	0.498	99.6
4	4 PFHxA	313.2 > 268.9	3.51e3	1.98e4	1.000		3.19	3.14	0.889	0.507	101.3
5	5 PFHpA	363 > 318.9	2.87e3	4.56e4	1.000		3.45	3.41	0.786	0.547	109.4
6	6 PFHxS	398.9 > 79.6	2.95e2	4.02e3	1.000		3.56	3.47	0.917	0.391	78.1
7	7 PFOA	413 > 368.7	3.04e3	6.23e4	1.000		3.65	3.61	0.610	0.449	89.8
8	8 PFHpS	448.9 > 98.8	1.84e2	6.23e4	1.000		3.65	3.67	0.0369	0.353	70.6
9	9 PFNA	462.9 > 418.8	2.90e3	5.30e4	1.000		3.83	3.79	0.683	0.500	99.9
10	10 PFOSA	498.1 > 77.8	6.06e2	8.63e3	1.000		3.84	3.80	0.877	0.612	122.3
11	11 PFOS	499 > 79.9	4.28e2	8.97e3	1.000		3.89	3.85	0.597	0.494	98.8
12	12 PFDA	513 > 468.8	3.41e3	5.58e4	1.000		4.01	3.96	0.764	0.500	100.1
13	13 N-MeFOSAA	570.1 > 419	5.99e2	1.21e4	1.000		4.03	3.98	8.01	0.397	79.4
14	14 N-EtFOSAA	584.2 > 419	6.42e2	1.13e4	1.000		4.10	4.05	9.26	0.591	118.2
15	15 PFUnA	562.9 > 518.9	1.98e3	5.30e4	1.000		4.11	4.12	0.466	0.601	120.3
16	16 PFDS	598.9 > 98.7	2.25e2	5.30e4	1.000		4.22	4.17	0.0530	0.683	136.6
17	17 PFDoA	612.9 > 318.8	1.54e2	3.94e3	1.000		4.34	4.28	0.489	0.401	80.2
18	18 PFTTrDA	662.9 > 618.9	1.41e3	3.94e3	1.000		4.50	4.44	4.47	0.386	77.2
19	19 PFTeDA	712.9 > 668.8	4.42e2	8.02e3	1.000		4.68	4.62	0.690	0.465	92.9
20	20 13C3-PFBA	216.1 > 171.8	1.92e4	2.31e4	1.000	0.823	1.32	1.34	10.4	12.7	101.3
21	21 13C3-PFPeA	266 > 221.8	4.76e4	7.04e4	1.000	0.264	2.77	2.65	3.38	12.8	102.3
22	22 13C3-PFBS	302 > 98.8	5.55e3	7.04e4	1.000	0.031	2.96	2.89	0.394	12.8	102.8
23	23 13C2-PFHxA	315 > 269.8	1.98e4	7.04e4	1.000	0.275	3.19	3.14	1.40	5.10	102.1
24	24 13C4-PFHpA	367.2 > 321.8	4.56e4	7.04e4	1.000	0.260	3.45	3.41	3.24	12.4	99.6
25	25 18O2-PFHxS	403 > 102.6	4.02e3	9.64e3	1.000	0.402	3.56	3.48	5.22	13.0	103.8
26	26 13C2-PFOA	414.9 > 369.7	6.23e4	5.95e4	1.000	1.042	3.65	3.61	13.1	12.6	100.4
27	27 13C5-PFNA	468.2 > 422.9	5.30e4	6.70e4	1.000	0.792	3.83	3.79	9.89	12.5	99.9
28	28 13C8-PFOSA	506.1 > 77.7	8.63e3	6.26e4	1.000	0.175	3.84	3.79	1.72	9.87	79.0
29	29 13C8-PFOS	507 > 79.9	8.97e3	1.01e4	1.000	0.951	3.89	3.84	11.1	11.7	93.7
30	30 13C2-PFDA	515.1 > 469.9	5.58e4	6.46e4	1.000	0.869	4.01	3.95	10.8	12.4	99.3
31	31 d3-N-MeFOSAA	573.3 > 419	1.21e4	6.26e4	1.000	0.013	4.03	3.98	2.43	188	115.4
32	32 d5-N-EtFOSAA	589.3 > 419	1.13e4	6.26e4	1.000	0.013	4.12	4.05	2.25	177	109.0

70-130

dm
8/1/17

50-150

Dataset: U:\Q4.PRO\results\170727M1\170727M1-66.qld

Last Altered: Tuesday, August 01, 2017 11:56:07 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 11:56:29 Pacific Daylight Time

Name: 170727M1_66, Date: 27-Jul-2017, Time: 23:16:34, ID: ST170727M1-11 PFC CS-1 17G2705, Description: PFC CS-1 17G2705

Ⓐ at of limit criteria.

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	33 13C2-PFUnA	565 > 519.8	5.30e4	6.26e4	1.000	0.928	4.17	4.12	10.6	11.4	91.3
34	34 13C2-PFDoA	615 > 569.7	3.94e3	6.26e4	1.000	0.071	4.34	4.28	0.787	11.1	88.6
35	35 13C2-PFTeDA	714.8 > 669.6	8.02e3	6.26e4	1.000	0.273	4.68	4.62	1.60	5.87	Ⓐ 46.9
36	36 13C4-PFBA	217 > 171.8	2.31e4	2.31e4	1.000	1.000	1.32	1.34	12.5	12.5	100.0
37	37 13C5-PFHxA	318 > 272.9	7.04e4	7.04e4	1.000	1.000	3.19	3.14	5.00	5.00	100.0
38	38 13C3-PFHxS	401.9 > 79.9	9.64e3	9.64e3	1.000	1.000	3.56	3.48	12.5	12.5	100.0
39	39 13C8-PFOA	421.3 > 376	5.95e4	5.95e4	1.000	1.000	3.65	3.61	12.5	12.5	100.0
40	40 13C9-PFNA	472.2 > 426.9	6.70e4	6.70e4	1.000	1.000	3.83	3.79	12.5	12.5	100.0
41	41 13C4-PFOS	503 > 79.9	1.01e4	1.01e4	1.000	1.000	3.89	3.84	12.5	12.5	100.0
42	42 13C6-PFDA	519.1 > 473.7	6.46e4	6.46e4	1.000	1.000	4.01	3.96	12.5	12.5	100.0
43	43 13C7-PFUnA	570.1 > 524.8	6.26e4	6.26e4	1.000	1.000	4.17	4.12	12.5	12.5	100.0

SD-1.50
↓

Dataset: Untitled

Last Altered: Tuesday, August 01, 2017 12:30:23 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:32:43 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Compound name: PFBA

	Name	ID	Acq Date	Acq Time
1	170727M1_47	ST170727M1-10 PFC CS3 17G2709	27-Jul-17	19:53:28
2	170727M1_48	IPA	27-Jul-17	20:04:14
3	170727M1_49	1700848-05RE1 DPH-MW2-17 0.12259	27-Jul-17	20:14:52
4	170727M1_50	1700848-06RE1 DPH-MW8-17 0.12027	27-Jul-17	20:25:31
5	170727M1_51	1700848-07RE1 DPH-MW5-17 0.11998	27-Jul-17	20:36:09
6	170727M1_52	1700848-08RE1 DPH-MW4-17 0.11759	27-Jul-17	20:46:48
7	170727M1_53	IPA	27-Jul-17	20:57:36
8	170727M1_54	B7G0067-BLK1 Method Blank 0.125	27-Jul-17	21:08:21
9	170727M1_55	IPA	27-Jul-17	21:19:00
10	170727M1_56	B7G0067-BS1 OPR 0.125	27-Jul-17	21:29:46
11	170727M1_57	1700855-01 TF5-EB-02 0.27357	27-Jul-17	21:40:25
12	170727M1_58	1700855-02 TF5-MW-987 0.27423	27-Jul-17	21:51:11
13	170727M1_59	1700855-03 TF5-MW-987D 0.27164	27-Jul-17	22:01:49
14	170727M1_60	B7G0067-MS1 Matrix Spike 0.27298	27-Jul-17	22:12:27
15	170727M1_61	B7G0067-MSD1 Matrix Spike Dup 0.2776	27-Jul-17	22:23:06
16	170727M1_62	1700855-04 TF5-MW-987-D 0.26865	27-Jul-17	22:33:52
17	170727M1_63	1700855-05 TF5-MW-991 0.2726	27-Jul-17	22:44:39
18	170727M1_64	1700855-06 TF5-MW-991D 0.27278	27-Jul-17	22:55:17
19	170727M1_65	IPA	27-Jul-17	23:05:56
20	170727M1_66	ST170727M1-11 PFC CS-1 17G2705	27-Jul-17	23:16:34
21	170727M1_67	IPA	27-Jul-17	23:27:21
22	170727M1_68	1700855-07 TF5-MW-993 0.26881	27-Jul-17	23:39:43
23	170727M1_69	1700855-08 TF5-MW-993D 0.2612	27-Jul-17	23:50:22
24	170727M1_70	1700855-09 TF5-MW-994 0.25188	28-Jul-17	00:01:08
25	170727M1_71	1700871-01 EB03-20170712 0.12146	28-Jul-17	00:11:55
26	170727M1_72	1700871-02 5-GW-05_DGMW41B-20170712 ...	28-Jul-17	00:22:44
27	170727M1_73	1700871-03 18-GW-18BGM03E-20170712 0....	28-Jul-17	00:33:31
28	170727M1_74	1700871-04 24-GW-24IN03-20170712 0.11741	28-Jul-17	00:44:15
29	170727M1_75	1700871-05 DUP02-20170712 0.11807	28-Jul-17	00:54:53
30	170727M1_76	1700871-06 24-GW-24EX13A-20170712 0.11...	28-Jul-17	01:05:31
31	170727M1_77	1700871-07 24-GW-24MW15D-20170712 0.1...	28-Jul-17	01:16:10

Dataset: Untitled

Last Altered: Tuesday, August 01, 2017 12:30:23 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:32:43 Pacific Daylight Time

Compound name: PFBA

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32	170727M1_78	IPA	28-Jul-17	01:26:56
33	170727M1_79	ST170727M1-12 PFC CS3 17G2709	28-Jul-17	01:37:35
34	170727M1_80	IPA	28-Jul-17	01:48:13
35	170727M1_81	1700871-08 16-GW-16_MW28-20170712 0.1...	28-Jul-17	01:58:51
36	170727M1_82	1700871-09 16-GW-16_MW19-20170712 0.1...	28-Jul-17	02:09:38
37	170727M1_83	1700871-10 EB04-20170713 0.11646	28-Jul-17	02:20:24
38	170727M1_84	1700871-11 16-GW-16_MW04-20170713 0.1...	28-Jul-17	02:31:03
39	170727M1_85	IPA	28-Jul-17	02:41:41
40	170727M1_86	B7G0108-BS1 OPR 0.125	28-Jul-17	02:52:19
41	170727M1_87	IPA	28-Jul-17	03:02:58
42	170727M1_88	B7G0108-BLK1 Method Blank 0.125	28-Jul-17	03:13:36
43	170727M1_89	1700856-01RE1 INFLUENT-20170710 0.121	28-Jul-17	03:24:15
44	170727M1_90	1700856-02RE1 DUP05-20170710 0.11647	28-Jul-17	03:34:53
45	170727M1_91	1700856-03RE1 MID-POINT-20170710 0.11731	28-Jul-17	03:45:40
46	170727M1_92	1700856-04RE1 EFFLUENT-20170710 0.12084	28-Jul-17	03:56:26
47	170727M1_93	B7G0108-MS1 Matrix Spike 0.12162	28-Jul-17	04:07:38
48	170727M1_94	B7G0108-MSD1 Matrix Spike Dup 0.11849	28-Jul-17	04:18:57
49	170727M1_95	1700856-06RE1 ERB-01-20170711 0.12043	28-Jul-17	04:29:35
50	170727M1_96	IPA	28-Jul-17	04:40:21
51	170727M1_97	ST170727M1-13 PFC CS3 17G2709	28-Jul-17	04:51:00
52	170727M1_98	IPA	28-Jul-17	05:01:38

LC Calibration Standards Review Checklist

24

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
ST170727M1-10	LMH	NA	☒	☒	☒	☒	☒	NA
T -11	LMH	☒	☒	☒	☒	☒	☒	☒
↓ -12	LMH	☒	☒	☒	☒	☒	☒	☒
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐
Calibration ID:	LMH	☐	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: 6/21/17

Run Log Present: ☒

of Samples per Sequence Checked: ☒

Reviewed By: Yan 8/1/17
Initials/Date

Comments:

① PFDs at of limit criteria.
② 13C₂ PFTeDA at of limit criteria, not used. ③ PFTeDA at of limit criteria.
DM 8/1/17 L17

Dataset: U:\Q4.PRO\results\170727M1\170727M1-66.qld

Last Altered: Tuesday, August 01, 2017 11:58:09 Pacific Daylight Time

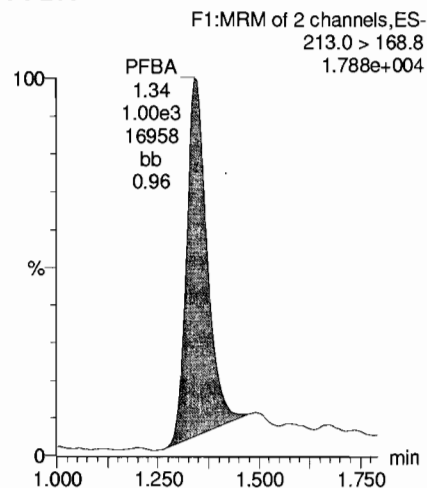
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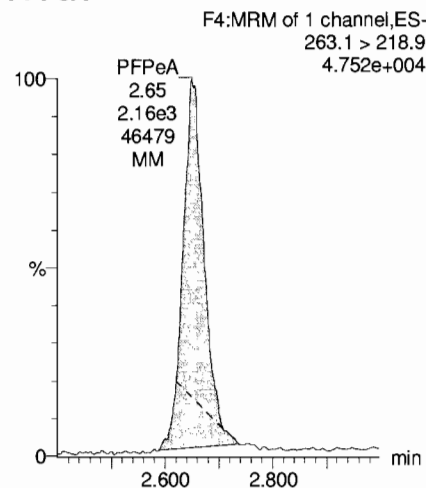
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Name: 170727M1_66, Date: 27-Jul-2017, Time: 23:16:34, ID: ST170727M1-11 PFC CS-1 17G2705, Description: PFC CS-1 17G2705

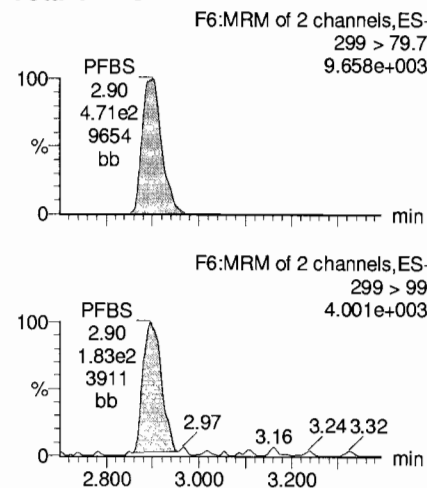
PFBA



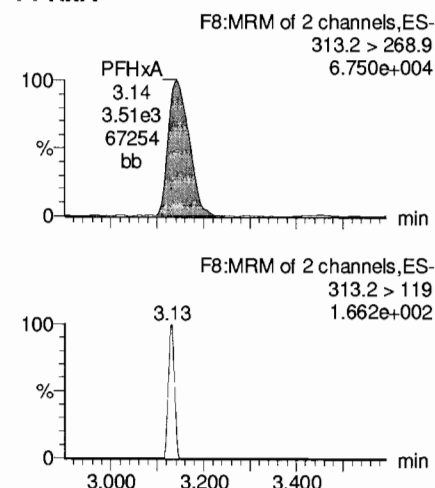
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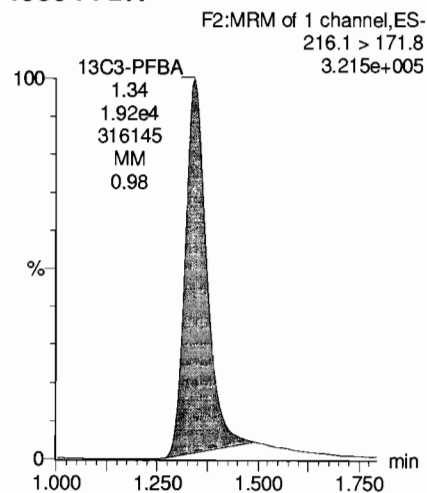
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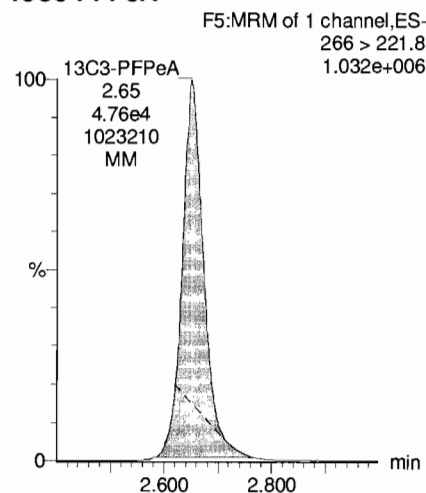
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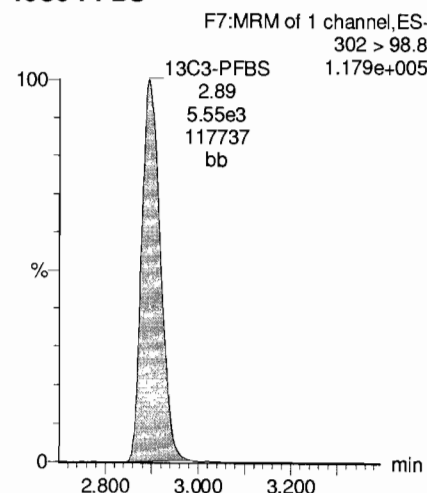
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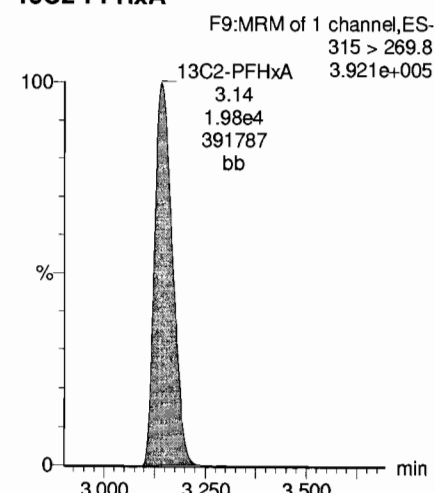
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13C3-PFBS



13C2-PFHxA



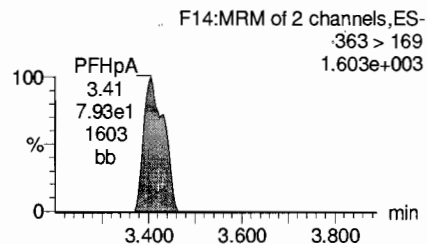
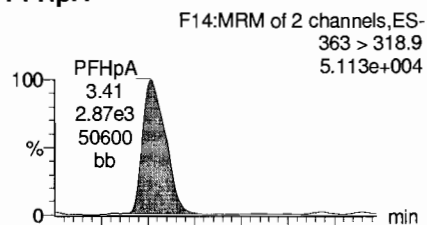
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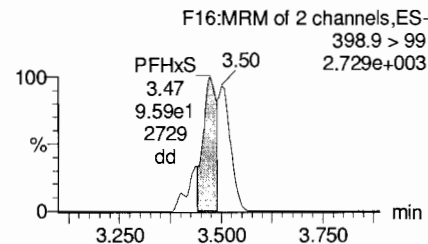
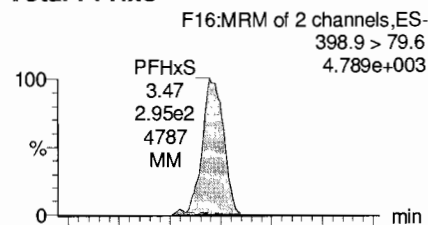
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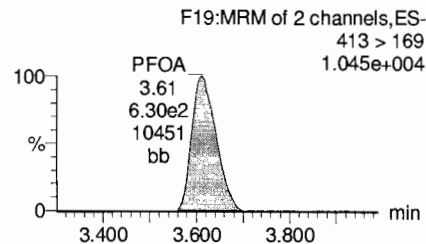
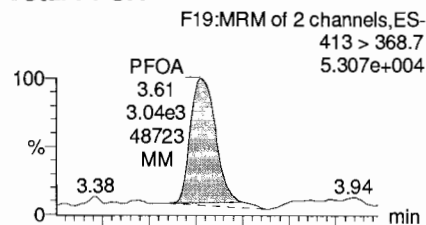
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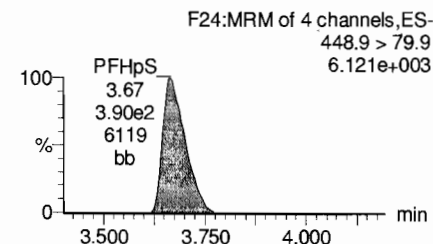
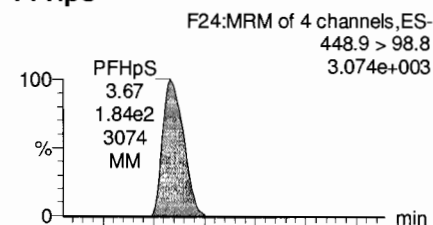
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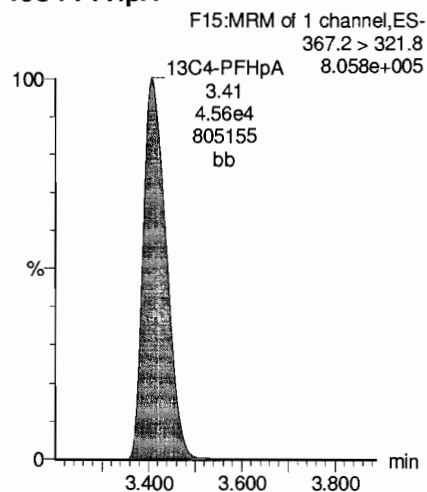
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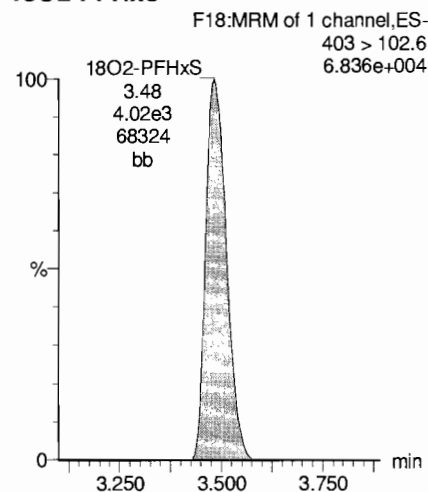
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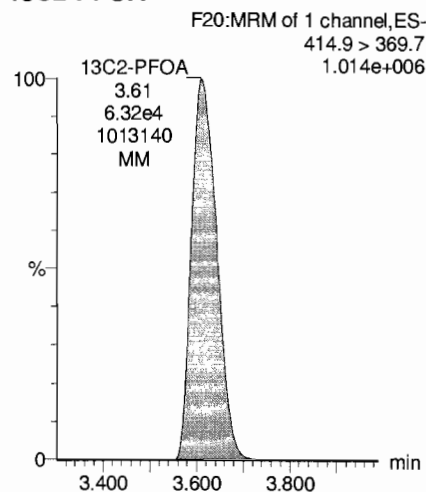
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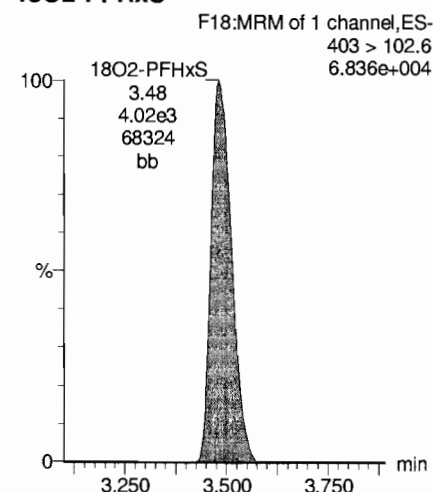
18O2-PFHxS



13C2-PFOA



18O2-PFHxS



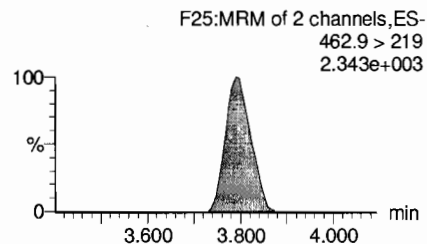
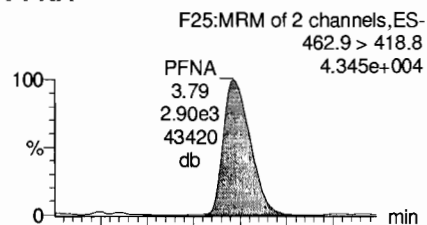
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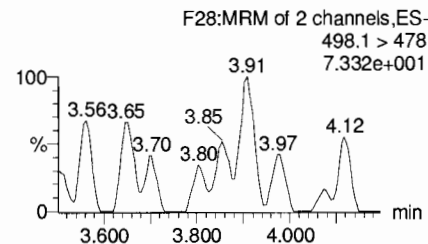
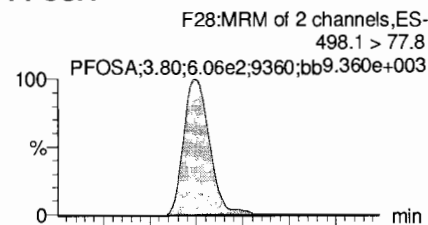
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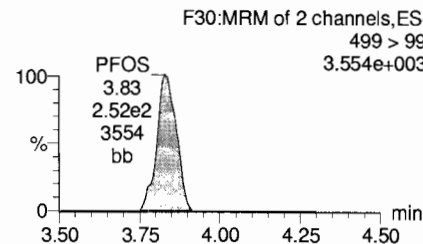
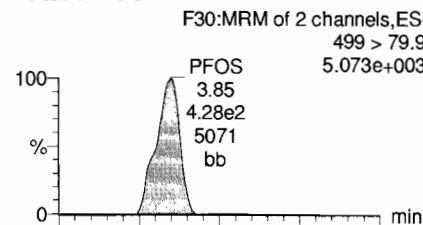
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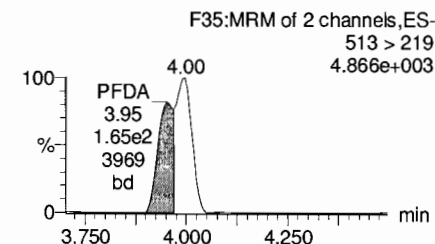
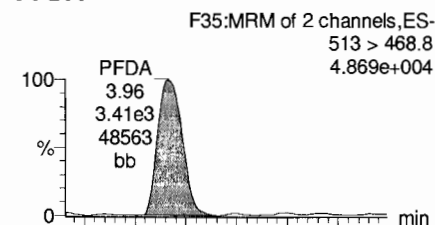
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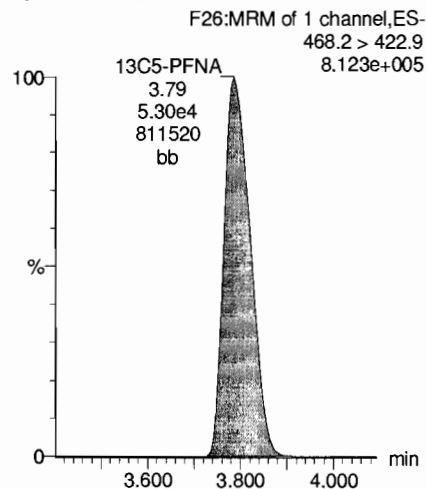
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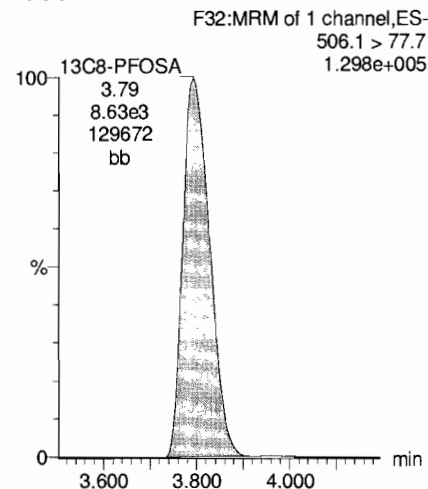
PFDA



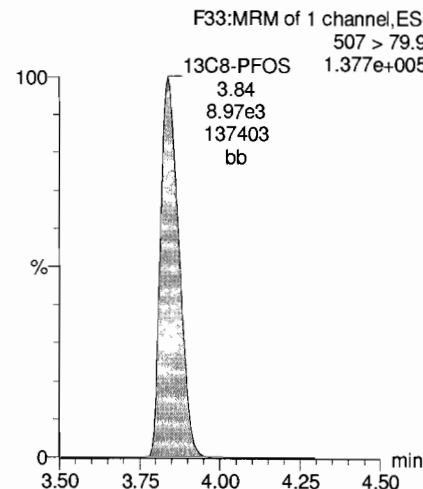
13C5-PFNA



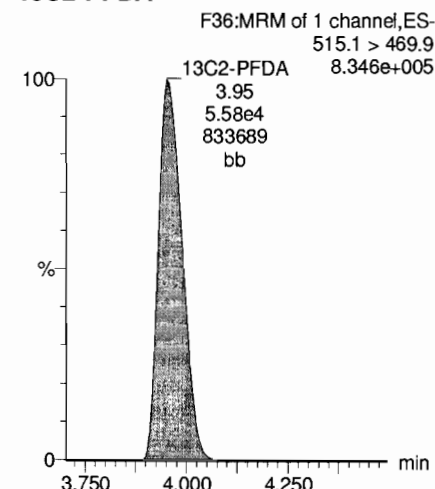
13C8-PFOSA



13C8-PFOS



13C2-PFDA



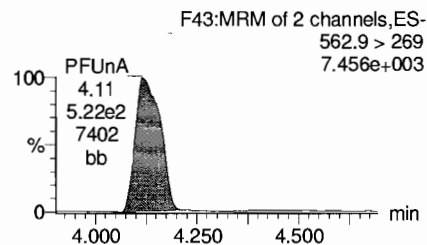
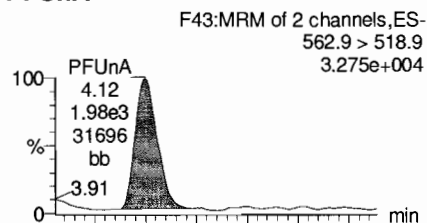
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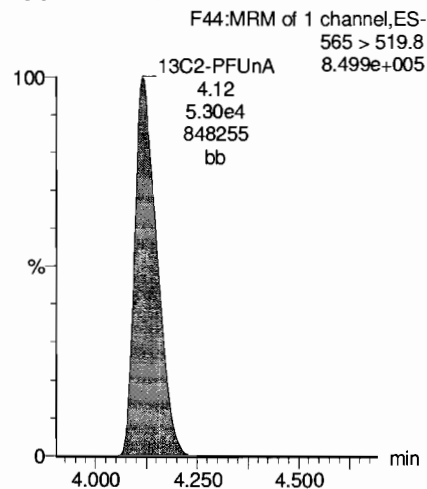
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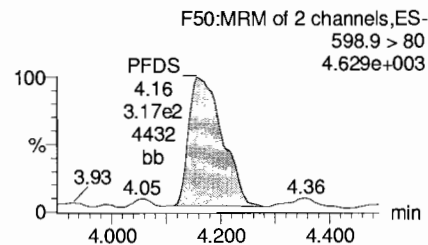
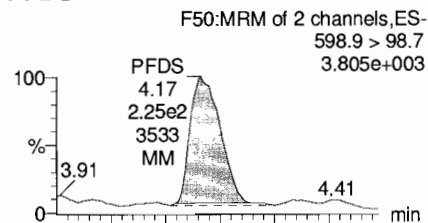
PFUnA



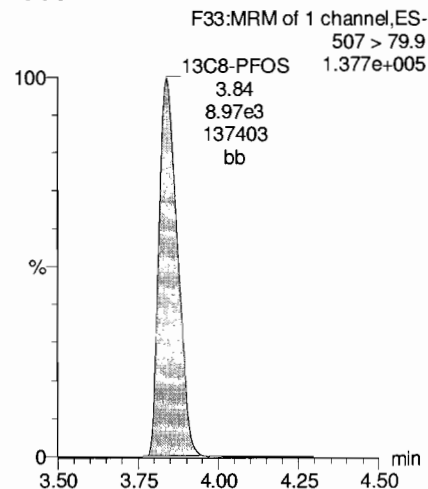
13C2-PFUnA



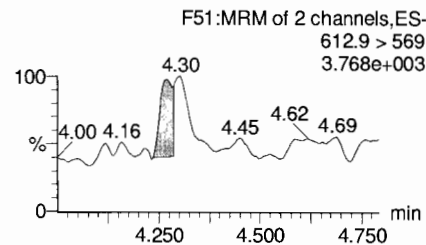
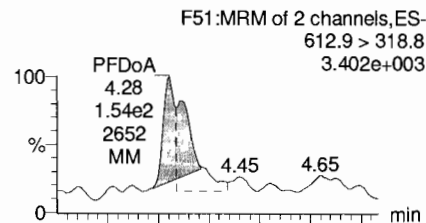
PFDS



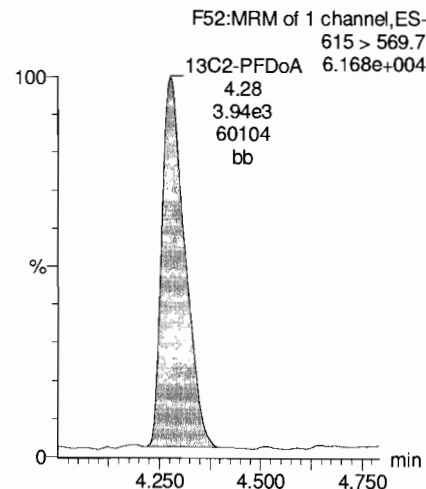
13C8-PFOS



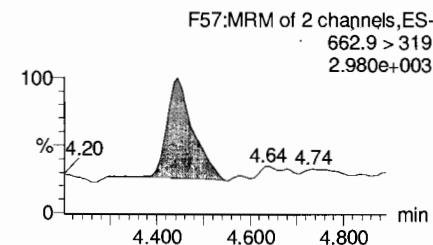
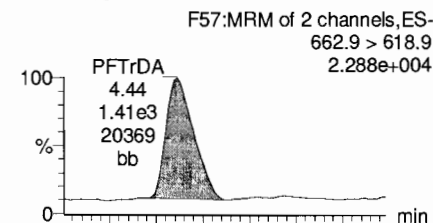
PFDaA



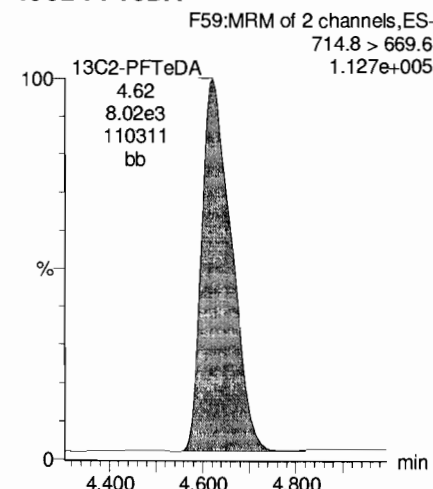
13C2-PFDaA



PFTTrDA



13C2-PFTeDA



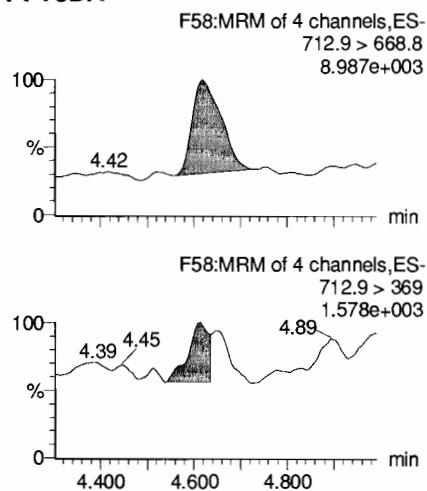
Dataset: U:\Q4.PRO\results\170727M1\170727M1-66.qld

Last Altered: Tuesday, August 01, 2017 11:58:09 Pacific Daylight Time

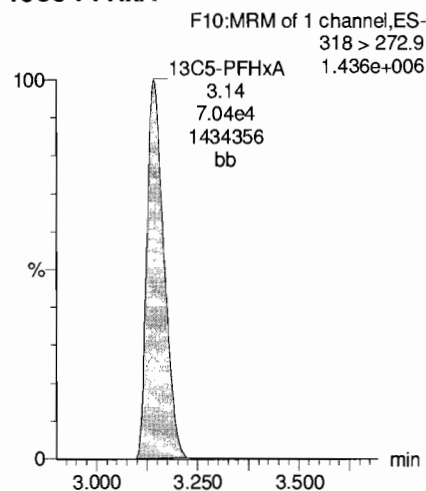
Printed: Tuesday, August 01, 2017 11:58:14 Pacific Daylight Time

Name: 170727M1_66, Date: 27-Jul-2017, Time: 23:16:34, ID: ST170727M1-11 PFC CS-1 17G2705, Description: PFC CS-1 17G2705

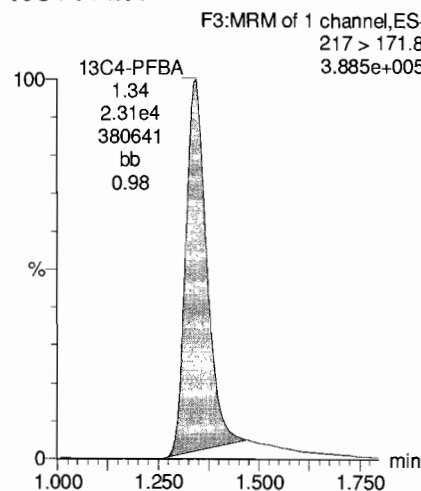
PFTeDA



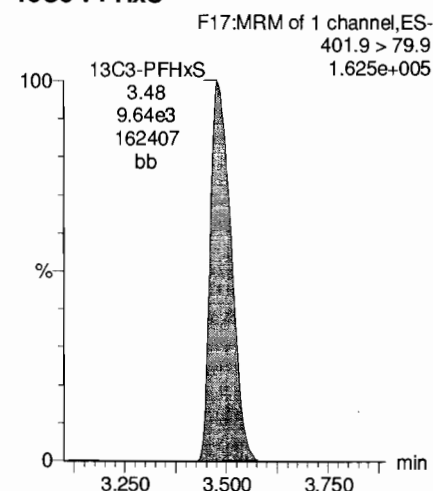
13C5-PFHxA



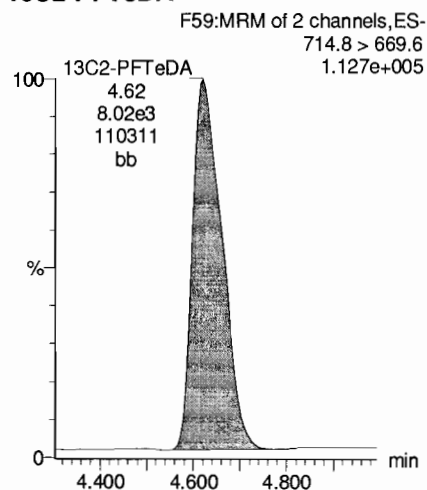
13C4-PFBA



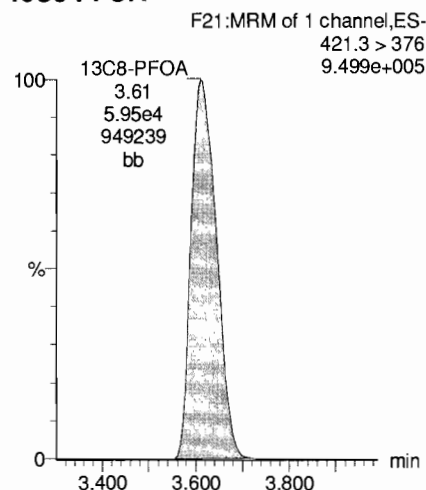
13C3-PFHxS



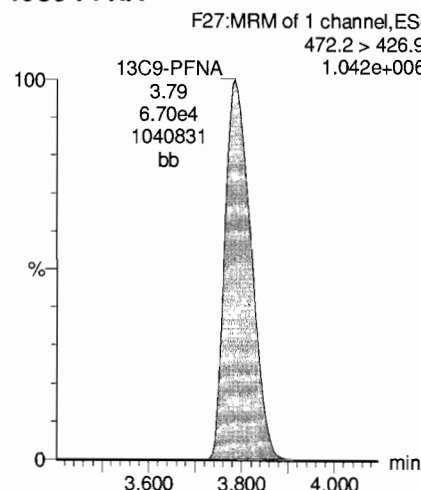
13C2-PFTeDA



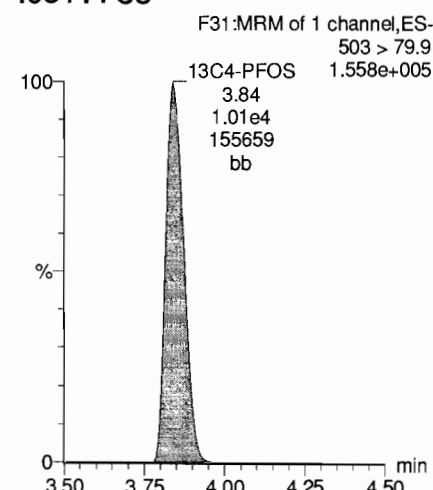
13C8-PFOA



13C9-PFNA



13C4-PFOS

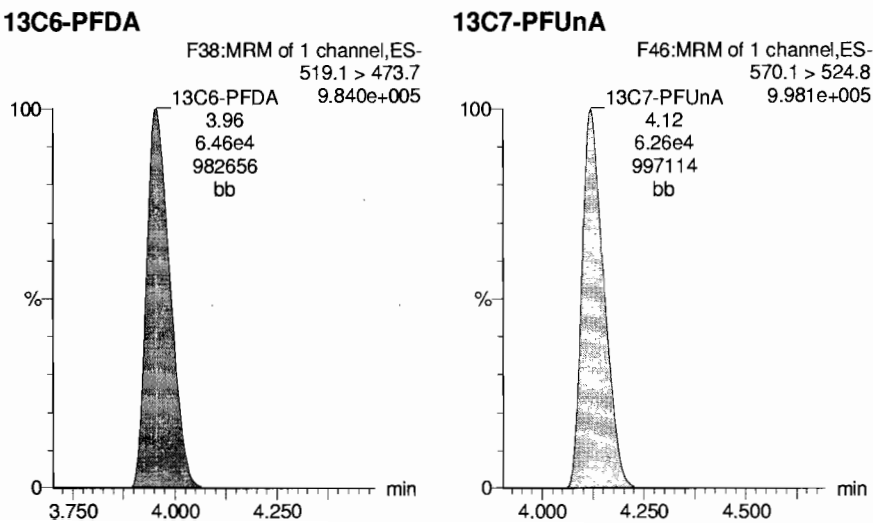


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Last Altered: Tuesday, August 01, 2017 11:58:09 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 11:58:14 Pacific Daylight Time

Name: 170727M1_66, Date: 27-Jul-2017, Time: 23:16:34, ID: ST170727M1-11 PFC CS-1 17G2705, Description: PFC CS-1 17G2705



Dataset: U:\Q4.PRO\results\170727M1\170727M1-79.qld

Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

(9) out of limit criteria

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.80e4	1.98e4	1.000		1.32	1.35	11.3	9.83	98.3
2	2 PFPeA	263.1 > 218.9	3.75e4	5.00e4	1.000		2.77	2.65	9.37	9.29	92.9
3	3 PFBS	299 > 79.7	8.36e3	5.99e3	1.000		2.96	2.90	17.5	9.23	92.3
4	4 PFHxA	313.2 > 268.9	6.00e4	2.10e4	1.000		3.19	3.15	14.3	9.72	97.2
5	5 PFHpA	363 > 318.9	4.61e4	4.86e4	1.000		3.45	3.41	11.9	9.54	95.4
6	6 PFHxS	398.9 > 79.6	5.82e3	4.64e3	1.000		3.56	3.48	15.7	9.39	93.9
7	7 PFOA	413 > 368.7	5.22e4	6.18e4	1.000		3.65	3.61	10.6	10.6	106.1
8	8 PFHpS	448.9 > 98.8	4.40e3	6.18e4	1.000		3.65	3.67	0.890	10.2	102.1
9	9 PFNA	462.9 > 418.8	4.67e4	5.21e4	1.000		3.83	3.79	11.2	10.4	103.8
10	10 PFOSA	498.1 > 77.8	7.11e3	8.74e3	1.000		3.84	3.80	10.2	9.30	93.0
11	11 PFOS	499 > 79.9	8.22e3	9.84e3	1.000		3.89	3.84	10.4	9.73	97.3
12	12 PFDA	513 > 468.8	5.69e4	5.95e4	1.000		4.01	3.96	12.0	9.59	95.9
13	13 N-MeFOSAA	570.1 > 419	1.48e4	1.22e4	1.000		4.03	3.99	198	9.91	99.1
14	14 N-EtFOSAA	584.2 > 419	1.07e4	1.12e4	1.000		4.10	4.06	155	10.1	100.5
15	15 PFUnA	562.9 > 518.9	3.11e4	5.13e4	1.000		4.11	4.13	7.57	11.7	117.1
16	16 PFDS	598.9 > 98.7	2.83e3	5.13e4	1.000		4.22	4.17	0.690	10.2	101.9
17	17 PFDoA	612.9 > 318.8	2.84e3	3.66e3	1.000		4.34	4.29	9.69	10.4	103.8
18	18 PFTTrDA	662.9 > 618.9	1.36e4	3.66e3	1.000		4.50	4.45	46.3	5.37	53.7
19	19 PFTeDA	712.9 > 668.8	3.48e3	3.88e3	1.000		4.68	4.63	11.2	9.28	92.8
20	20 13C3-PFBA	216.1 > 171.8	1.98e4	2.45e4	1.000	0.823	1.32	1.34	10.1	12.3	98.1
21	21 13C3-PFPeA	266 > 221.8	5.00e4	7.38e4	1.000	0.264	2.77	2.65	3.39	12.8	102.6
22	22 13C3-PFBS	302 > 98.8	5.99e3	7.38e4	1.000	0.031	2.96	2.89	0.405	13.2	105.7
23	23 13C2-PFHxA	315 > 269.8	2.10e4	7.38e4	1.000	0.275	3.19	3.14	1.42	5.18	103.6
24	24 13C4-PFHpA	367.2 > 321.8	4.86e4	7.38e4	1.000	0.260	3.45	3.41	3.29	12.7	101.2
25	25 18O2-PFHxS	403 > 102.6	4.64e3	1.12e4	1.000	0.402	3.56	3.49	5.18	12.9	103.0
26	26 13C2-PFOA	414.9 > 369.7	6.18e4	5.59e4	1.000	1.042	3.65	3.61	13.8	13.3	106.1
27	27 13C5-PFNA	468.2 > 422.9	5.21e4	6.33e4	1.000	0.792	3.83	3.79	10.3	13.0	104.0
28	28 13C8-PFOSA	506.1 > 77.7	8.74e3	6.13e4	1.000	0.175	3.84	3.80	1.78	10.2	81.6
29	29 13C8-PFOS	507 > 79.9	9.84e3	1.05e4	1.000	0.951	3.89	3.84	11.7	12.3	98.2
30	30 13C2-PFDA	515.1 > 469.9	5.95e4	6.71e4	1.000	0.869	4.01	3.96	11.1	12.7	102.0
31	31 d3-N-MeFOSAA	573.3 > 419	1.22e4	6.13e4	1.000	0.013	4.03	3.99	2.48	192	117.9
32	32 d5-N-EtFOSAA	589.3 > 419	1.12e4	6.13e4	1.000	0.013	4.12	4.06	2.29	180	110.9

70-130

OK
8/1/17

50-150

Dataset: U:\Q4.PRO\results\170727M1\170727M1-79.qld

Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

Out of Limit Criteria.

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	33 13C2-PFUnA	565 > 519.8	5.13e4	6.13e4	1.000	0.928	4.17	4.13	10.5	11.3	90.1
34	34 13C2-PFDoA	615 > 569.7	3.66e3	6.13e4	1.000	0.071	4.34	4.29	0.746	10.5	83.9
35	35 13C2-PFTeDA	714.8 > 669.6	3.88e3	6.13e4	1.000	0.273	4.68	4.63	0.791	2.90	23.2
36	36 13C4-PFBA	217 > 171.8	2.45e4	2.45e4	1.000	1.000	1.32	1.34	12.5	12.5	100.0
37	37 13C5-PFHxA	318 > 272.9	7.38e4	7.38e4	1.000	1.000	3.19	3.14	5.00	5.00	100.0
38	38 13C3-PFHxS	401.9 > 79.9	1.12e4	1.12e4	1.000	1.000	3.56	3.48	12.5	12.5	100.0
39	39 13C8-PFOA	421.3 > 376	5.59e4	5.59e4	1.000	1.000	3.65	3.61	12.5	12.5	100.0
40	40 13C9-PFNA	472.2 > 426.9	6.33e4	6.33e4	1.000	1.000	3.83	3.80	12.5	12.5	100.0
41	41 13C4-PFOS	503 > 79.9	1.05e4	1.05e4	1.000	1.000	3.89	3.84	12.5	12.5	100.0
42	42 13C6-PFDA	519.1 > 473.7	6.71e4	6.71e4	1.000	1.000	4.01	3.96	12.5	12.5	100.0
43	43 13C7-PFUnA	570.1 > 524.8	6.13e4	6.13e4	1.000	1.000	4.17	4.13	12.5	12.5	100.0

10-150
↓

Dataset: Untitled

Last Altered: Tuesday, August 01, 2017 12:30:23 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:32:43 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170727M1_47	ST170727M1-10 PFC CS3 17G2709	27-Jul-17	19:53:28
2	170727M1_48	IPA	27-Jul-17	20:04:14
3	170727M1_49	1700848-05RE1 DPH-MW2-17 0.12259	27-Jul-17	20:14:52
4	170727M1_50	1700848-06RE1 DPH-MW8-17 0.12027	27-Jul-17	20:25:31
5	170727M1_51	1700848-07RE1 DPH-MW5-17 0.11998	27-Jul-17	20:36:09
6	170727M1_52	1700848-08RE1 DPH-MW4-17 0.11759	27-Jul-17	20:46:48
7	170727M1_53	IPA	27-Jul-17	20:57:36
8	170727M1_54	B7G0067-BLK1 Method Blank 0.125	27-Jul-17	21:08:21
9	170727M1_55	IPA	27-Jul-17	21:19:00
10	170727M1_56	B7G0067-BS1 OPR 0.125	27-Jul-17	21:29:46
11	170727M1_57	1700855-01 TF5-EB-02 0.27357	27-Jul-17	21:40:25
12	170727M1_58	1700855-02 TF5-MW-987 0.27423	27-Jul-17	21:51:11
13	170727M1_59	1700855-03 TF5-MW-987D 0.27164	27-Jul-17	22:01:49
14	170727M1_60	B7G0067-MS1 Matrix Spike 0.27298	27-Jul-17	22:12:27
15	170727M1_61	B7G0067-MSD1 Matrix Spike Dup 0.2776	27-Jul-17	22:23:06
16	170727M1_62	1700855-04 TF5-MW-987-D 0.26865	27-Jul-17	22:33:52
17	170727M1_63	1700855-05 TF5-MW-991 0.2726	27-Jul-17	22:44:39
18	170727M1_64	1700855-06 TF5-MW-991D 0.27278	27-Jul-17	22:55:17
19	170727M1_65	IPA	27-Jul-17	23:05:56
20	170727M1_66	ST170727M1-11 PFC CS-1 17G2705	27-Jul-17	23:16:34
21	170727M1_67	IPA	27-Jul-17	23:27:21
22	170727M1_68	1700855-07 TF5-MW-993 0.26881	27-Jul-17	23:39:43
23	170727M1_69	1700855-08 TF5-MW-993D 0.2612	27-Jul-17	23:50:22
24	170727M1_70	1700855-09 TF5-MW-994 0.25188	28-Jul-17	00:01:08
25	170727M1_71	1700871-01 EB03-20170712 0.12146	28-Jul-17	00:11:55
26	170727M1_72	1700871-02 5-GW-05_DGMW41B-20170712 ...	28-Jul-17	00:22:44
27	170727M1_73	1700871-03 18-GW-18BGM03E-20170712 0....	28-Jul-17	00:33:31
28	170727M1_74	1700871-04 24-GW-24IN03-20170712 0.11741	28-Jul-17	00:44:15
29	170727M1_75	1700871-05 DUP02-20170712 0.11807	28-Jul-17	00:54:53
30	170727M1_76	1700871-06 24-GW-24EX13A-20170712 0.11...	28-Jul-17	01:05:31
31	170727M1_77	1700871-07 24-GW-24MW15D-20170712 0.1...	28-Jul-17	01:16:10

Dataset: Untitled

Last Altered: Tuesday, August 01, 2017 12:30:23 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:32:43 Pacific Daylight Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170727M1_78	IPA	28-Jul-17	01:26:56
33	170727M1_79	ST170727M1-12 PFC CS3 17G2709	28-Jul-17	01:37:35
34	170727M1_80	IPA	28-Jul-17	01:48:13
35	170727M1_81	1700871-08 16-GW-16_MW28-20170712 0.1...	28-Jul-17	01:58:51
36	170727M1_82	1700871-09 16-GW-16_MW19-20170712 0.1...	28-Jul-17	02:09:38
37	170727M1_83	1700871-10 EB04-20170713 0.11646	28-Jul-17	02:20:24
38	170727M1_84	1700871-11 16-GW-16_MW04-20170713 0.1...	28-Jul-17	02:31:03
39	170727M1_85	IPA	28-Jul-17	02:41:41
40	170727M1_86	B7G0108-BS1 OPR 0.125	28-Jul-17	02:52:19
41	170727M1_87	IPA	28-Jul-17	03:02:58
42	170727M1_88	B7G0108-BLK1 Method Blank 0.125	28-Jul-17	03:13:36
43	170727M1_89	1700856-01RE1 INFLUENT-20170710 0.121	28-Jul-17	03:24:15
44	170727M1_90	1700856-02RE1 DUP05-20170710 0.11647	28-Jul-17	03:34:53
45	170727M1_91	1700856-03RE1 MID-POINT-20170710 0.11731	28-Jul-17	03:45:40
46	170727M1_92	1700856-04RE1 EFFLUENT-20170710 0.12084	28-Jul-17	03:56:26
47	170727M1_93	B7G0108-MS1 Matrix Spike 0.12162	28-Jul-17	04:07:38
48	170727M1_94	B7G0108-MSD1 Matrix Spike Dup 0.11849	28-Jul-17	04:18:57
49	170727M1_95	1700856-06RE1 ERB-01-20170711 0.12043	28-Jul-17	04:29:35
50	170727M1_96	IPA	28-Jul-17	04:40:21
51	170727M1_97	ST170727M1-13 PFC CS3 17G2709	28-Jul-17	04:51:00
52	170727M1_98	IPA	28-Jul-17	05:01:38

Dataset: U:\Q4.PRO\results\170727M1\170727M1-79.qld

Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

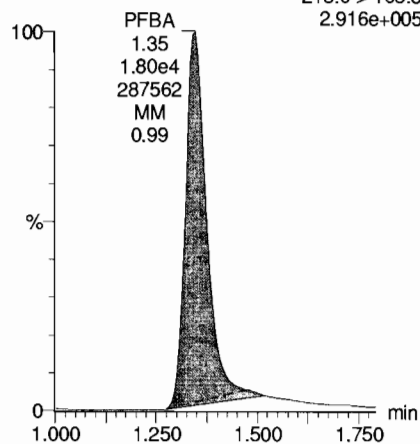
Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

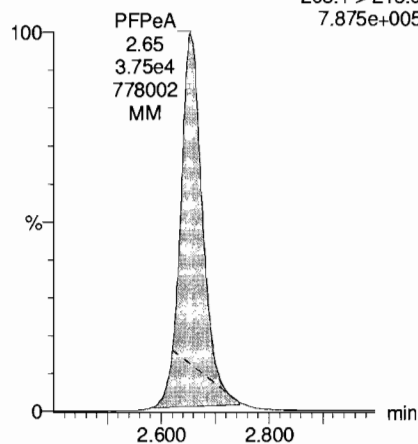
PFBA

F1:MRM of 2 channels,ES-
213.0 > 168.8
2.916e+005



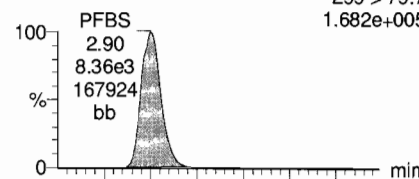
PFPeA

F4:MRM of 1 channel,ES-
263.1 > 218.9
7.875e+005

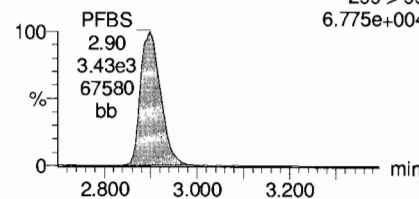


Total PFBS

F6:MRM of 2 channels,ES-
299 > 79.7
1.682e+005

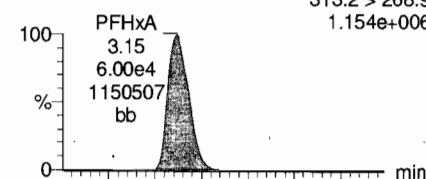


F6:MRM of 2 channels,ES-
299 > 99
6.775e+004

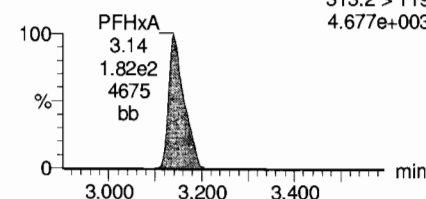


PFHxA

F8:MRM of 2 channels,ES-
313.2 > 268.9
1.154e+006

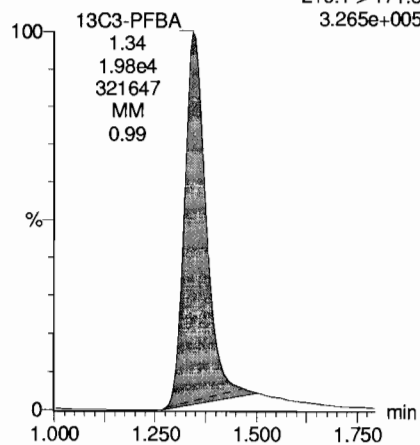


F8:MRM of 2 channels,ES-
313.2 > 119
4.677e+003



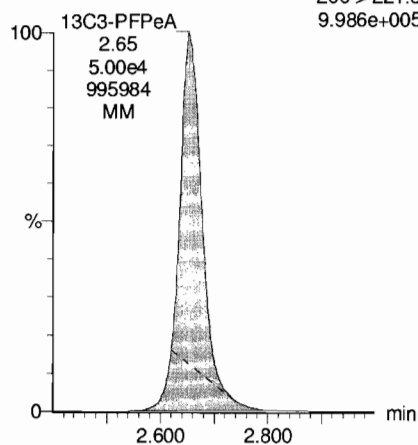
13C3-PFBA

F2:MRM of 1 channel,ES-
216.1 > 171.8
3.265e+005



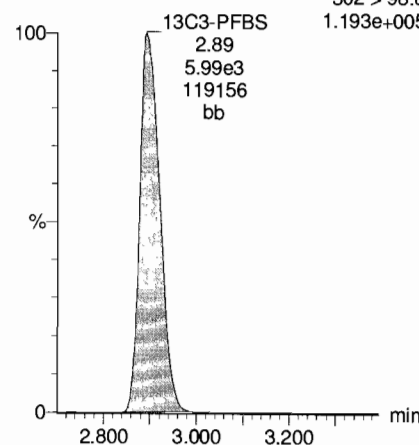
13C3-PFPeA

F5:MRM of 1 channel,ES-
266 > 221.8
9.986e+005



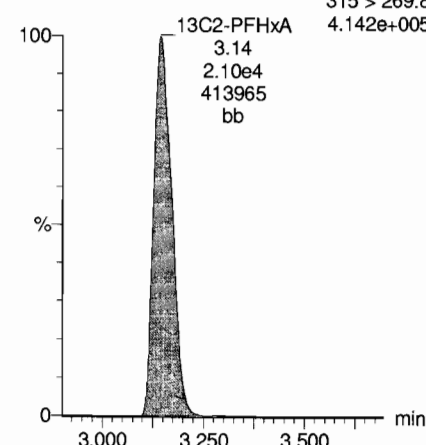
13C3-PFBS

F7:MRM of 1 channel,ES-
302 > 98.8
1.193e+005



13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
4.142e+005



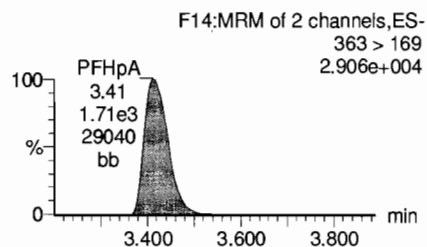
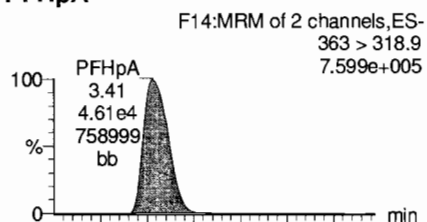
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Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

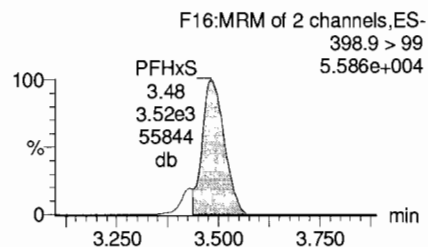
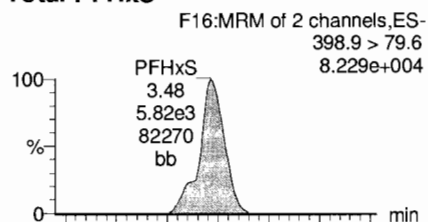
Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

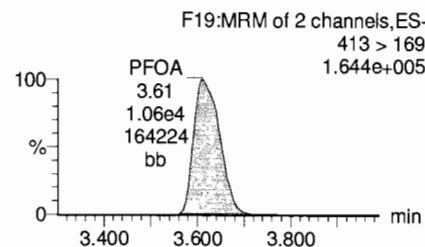
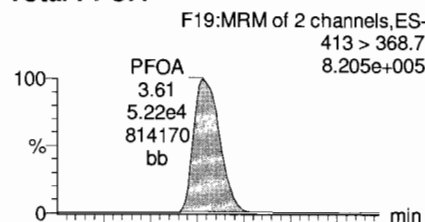
PFHpA



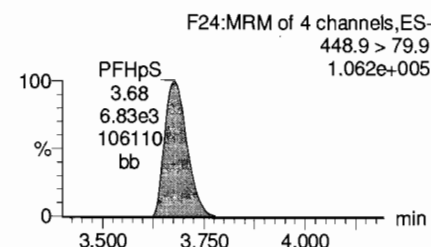
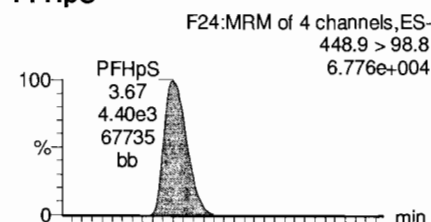
Total PFHxS



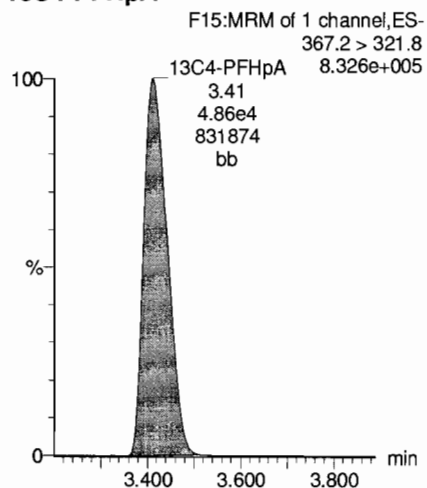
Total PFOA



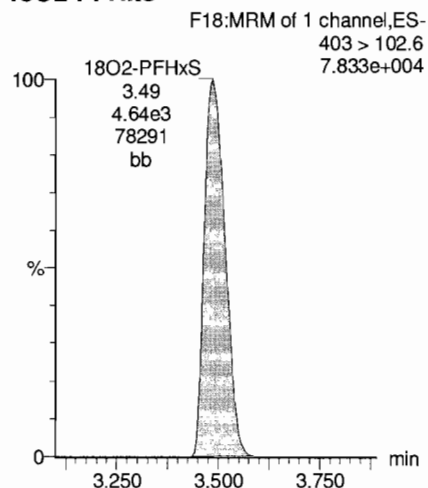
PFHpS



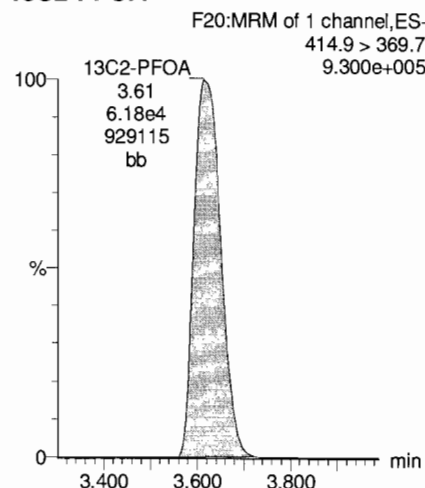
13C4-PFHpA



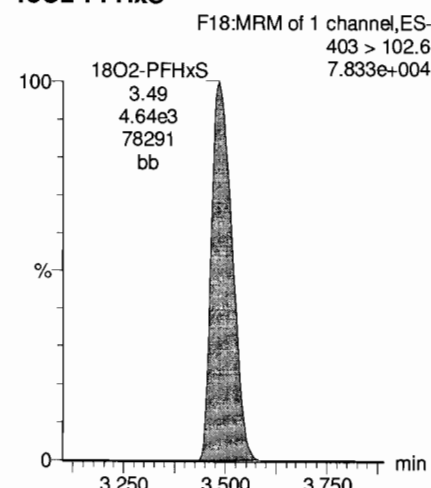
18O2-PFHxS



13C2-PFOA



18O2-PFHxS



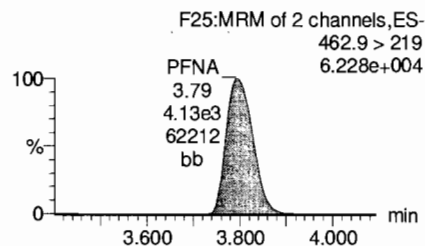
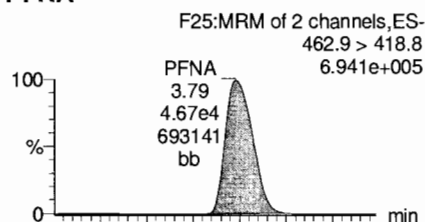
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Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

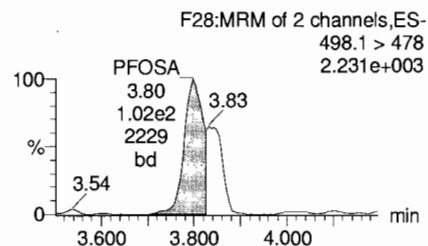
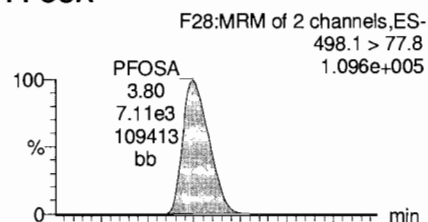
Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

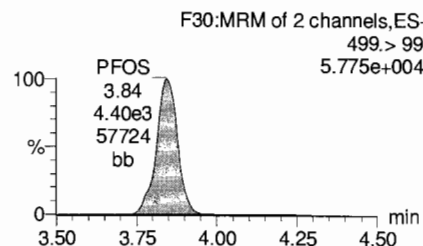
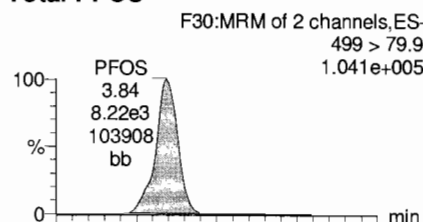
PFNA



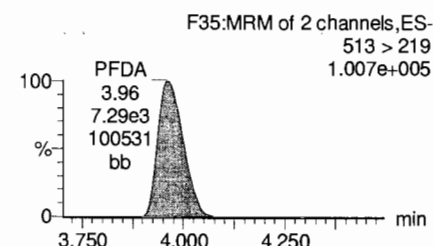
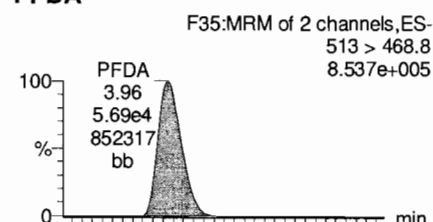
PFOSA



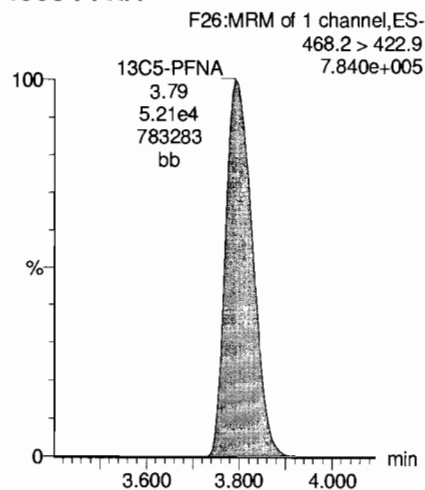
Total PFOS



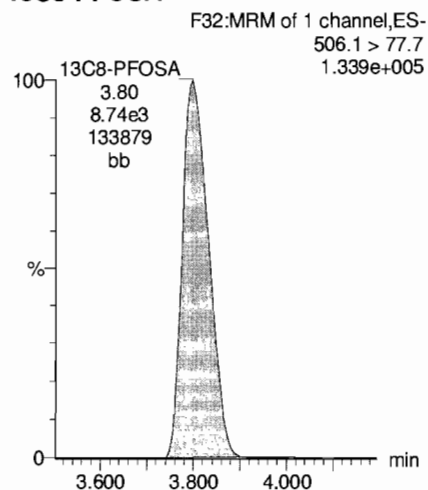
PFDA



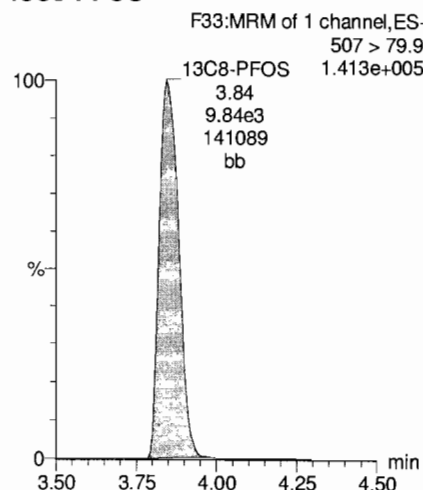
13C5-PFNA



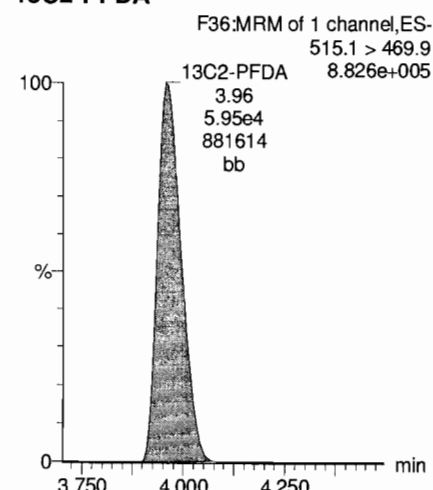
13C8-PFOSA



13C8-PFOS



13C2-PFDA



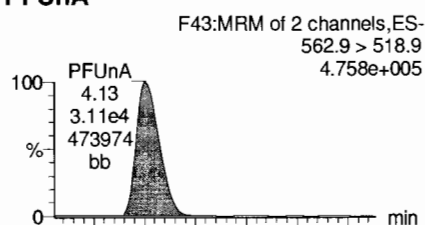
Dataset: U:\Q4.PRO\results\170727M1\170727M1-79.qld

Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

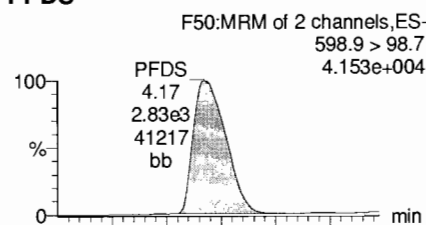
Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

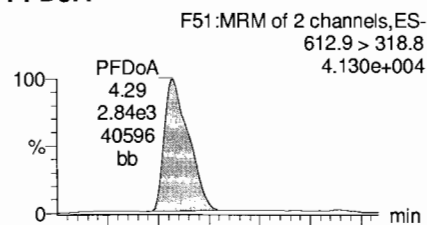
PFUnA



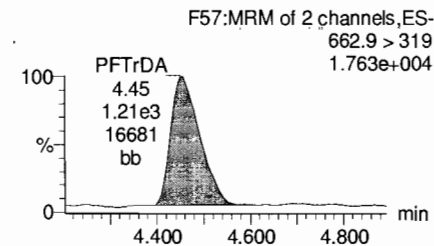
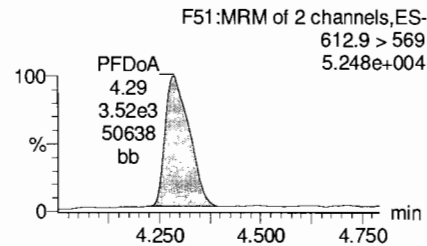
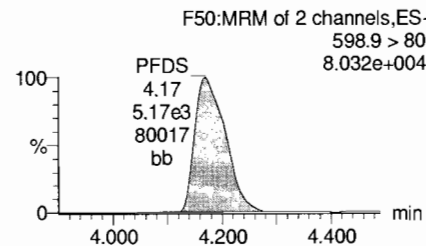
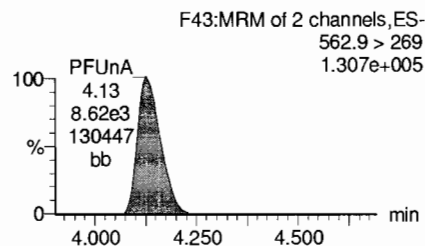
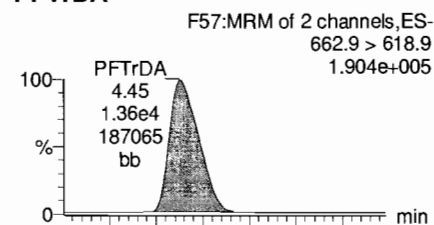
PFDS



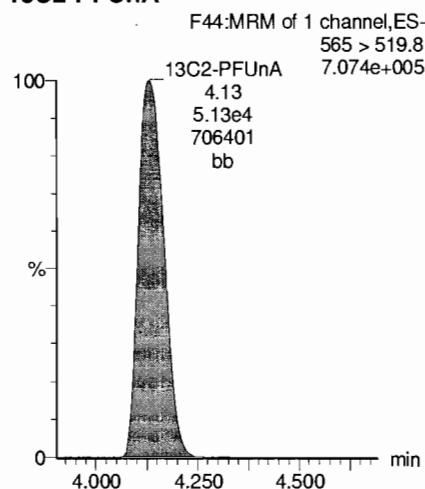
PFDaA



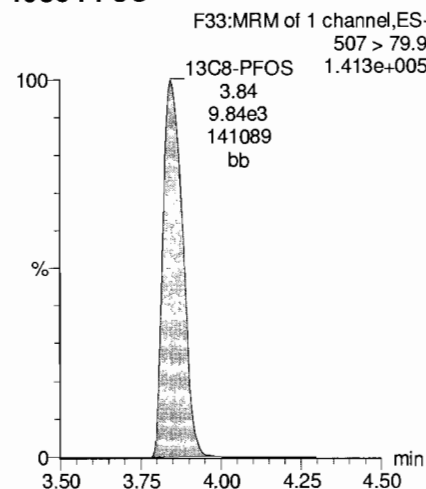
PFTrDA



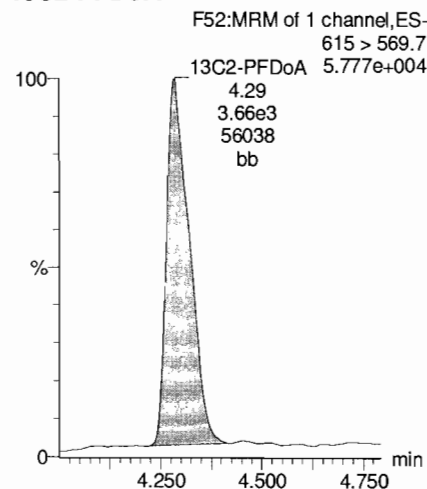
13C2-PFUnA



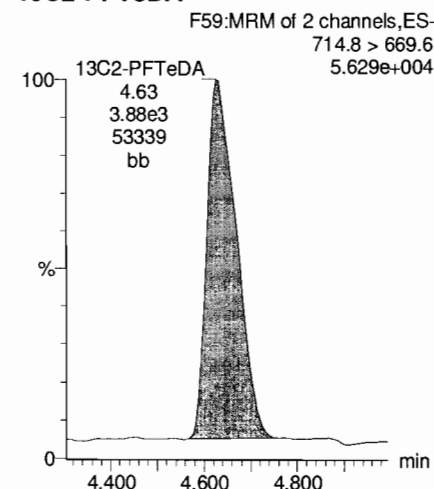
13C8-PFOS



13C2-PFDaA



13C2-PFTeDA



Dataset: U:\Q4.PRO\results\170727M1\170727M1-79.qld

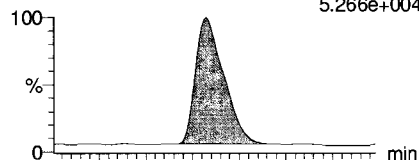
Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

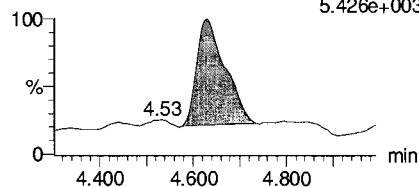
Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
5.266e+004

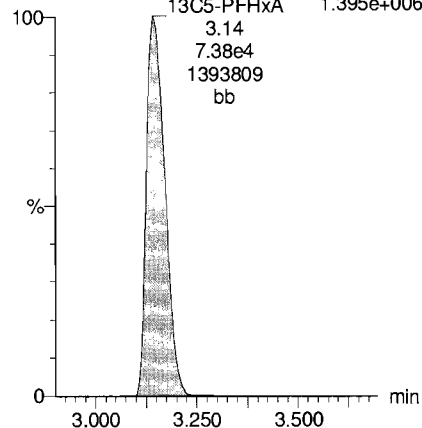


F58:MRM of 4 channels,ES-
712.9 > 369
5.426e+003



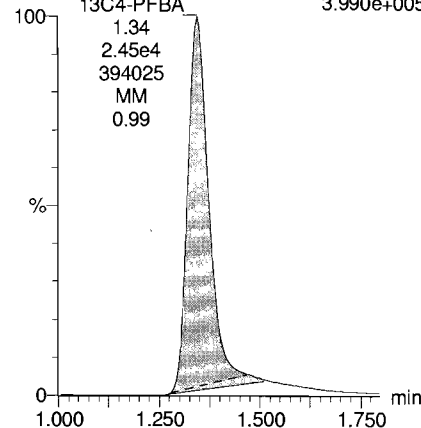
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
1.395e+006



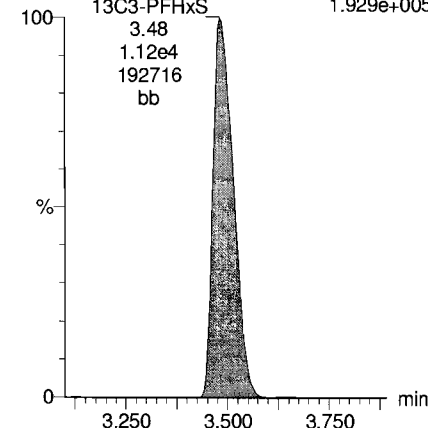
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
3.990e+005



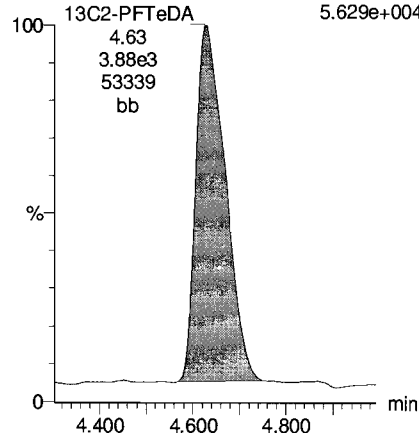
13C3-PFHxS

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.929e+005



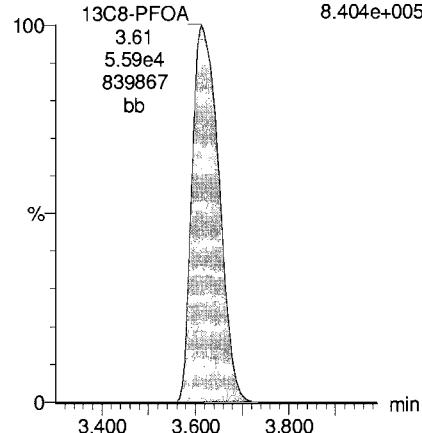
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
5.629e+004



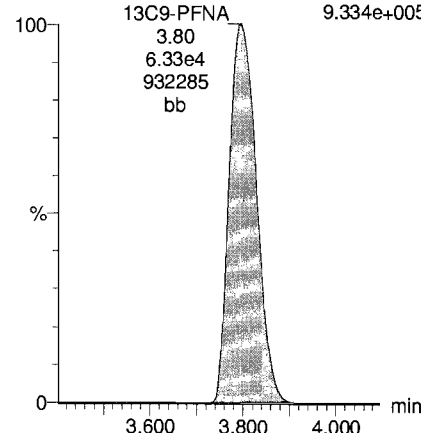
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
8.404e+005



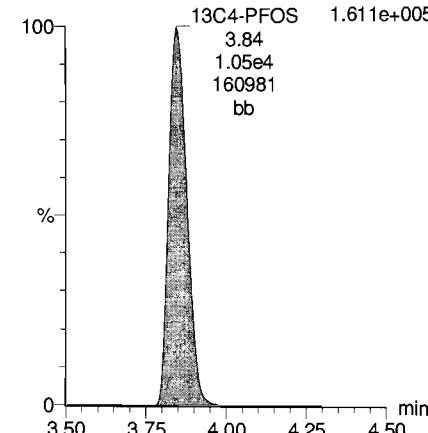
13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
9.334e+005



13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.611e+005



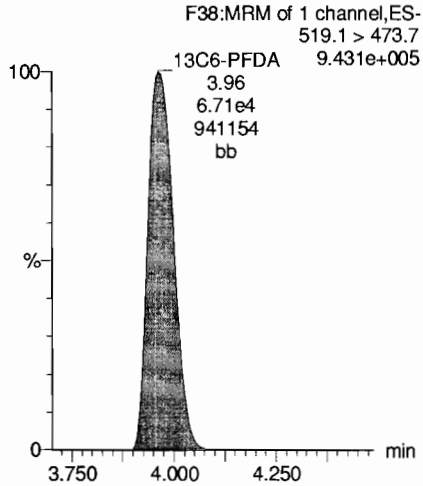
Dataset: U:\Q4.PRO\results\170727M1\170727M1-79.qld

Last Altered: Tuesday, August 01, 2017 12:23:11 Pacific Daylight Time

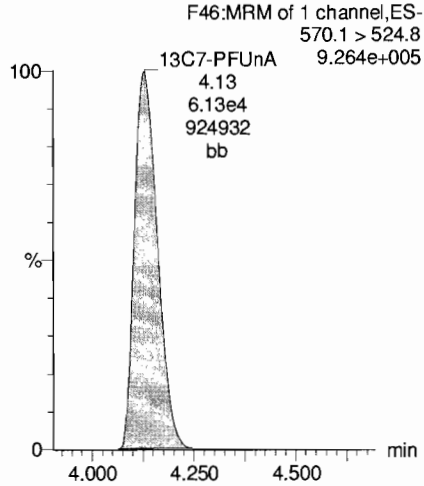
Printed: Tuesday, August 01, 2017 12:24:59 Pacific Daylight Time

Name: 170727M1_79, Date: 28-Jul-2017, Time: 01:37:35, ID: ST170727M1-12 PFC CS3 17G2709, Description: PFC CS3 17G2709

13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170727M1\170727M1-97.qld

Last Altered: Tuesday, August 01, 2017 12:26:31 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:27:14 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\IC18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_97, Date: 28-Jul-2017, Time: 04:51:00, ID: ST170727M1-13 PFC CS3 17G2709, Description: PFC CS3 17G2709

Out of limit criteria.

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.89e4	2.11e4	1.000		1.32	1.35	11.2	9.68	96.8
2	2 PFPeA	263.1 > 218.9	3.94e4	5.17e4	1.000		2.77	2.66	9.52	9.45	94.5
3	3 PFBS	299 > 79.7	8.73e3	6.07e3	1.000		2.96	2.90	18.0	9.51	95.1
4	4 PFHxA	313.2 > 268.9	6.09e4	2.13e4	1.000		3.19	3.15	14.3	9.75	97.5
5	5 PFHpA	363 > 318.9	4.76e4	4.63e4	1.000		3.45	3.42	12.8	10.3	103.3
6	6 PFHxS	398.9 > 79.6	5.76e3	4.44e3	1.000		3.56	3.49	16.2	9.72	97.2
7	7 PFOA	413 > 368.7	5.22e4	6.56e4	1.000		3.65	3.62	9.95	9.99	99.9
8	8 PFHpS	448.9 > 98.8	4.59e3	6.56e4	1.000		3.65	3.67	0.875	10.0	100.3
9	9 PFNA	462.9 > 418.8	4.91e4	5.85e4	1.000		3.83	3.80	10.5	9.72	97.2
10	10 PFOSA	498.1 > 77.8	7.02e3	8.03e3	1.000		3.84	3.80	10.9	10.0	100.2
11	11 PFOS	499 > 79.9	8.56e3	1.05e4	1.000		3.89	3.84	10.2	9.50	95.0
12	12 PFDA	513 > 468.8	6.00e4	6.16e4	1.000		4.01	3.96	12.2	9.75	97.5
13	13 N-MeFOSAA	570.1 > 419	1.39e4	1.16e4	1.000		4.03	3.99	194	9.74	97.4
14	14 N-EtFOSAA	584.2 > 419	1.09e4	1.10e4	1.000		4.10	4.06	161	10.5	104.6
15	15 PFUnA	562.9 > 518.9	3.05e4	5.05e4	1.000		4.11	4.12	7.55	11.7	116.7
16	16 PFDS	598.9 > 98.7	2.89e3	5.05e4	1.000		4.22	4.17	0.714	10.5	105.4
17	17 PFDoA	612.9 > 318.8	2.57e3	3.49e3	1.000		4.34	4.29	9.19	9.83	98.3
18	18 PFTTrDA	662.9 > 618.9	1.21e4	3.49e3	1.000		4.50	4.45	43.4	5.02	50.2
19	19 PFTeDA	712.9 > 668.8	2.74e3	3.06e3	1.000		4.68	4.63	11.2	9.28	92.8
20	20 13C3-PFBA	216.1 > 171.8	2.11e4	2.53e4	1.000	0.823	1.32	1.35	10.5	12.7	101.6
21	21 13C3-PFPeA	266 > 221.8	5.17e4	7.53e4	1.000	0.264	2.77	2.66	3.43	13.0	103.9
22	22 13C3-PFBS	302 > 98.8	6.07e3	7.53e4	1.000	0.031	2.96	2.90	0.403	13.1	105.0
23	23 13C2-PFHxA	315 > 269.8	2.13e4	7.53e4	1.000	0.275	3.19	3.15	1.41	5.14	102.8
24	24 13C4-PFHpA	367.2 > 321.8	4.63e4	7.53e4	1.000	0.260	3.45	3.41	3.08	11.8	94.6
25	25 18O2-PFHxS	403 > 102.6	4.44e3	1.07e4	1.000	0.402	3.56	3.49	5.20	12.9	103.4
26	26 13C2-PFOA	414.9 > 369.7	6.56e4	6.43e4	1.000	1.042	3.65	3.62	12.8	12.2	97.9
27	27 13C5-PFNA	468.2 > 422.9	5.85e4	6.88e4	1.000	0.792	3.83	3.80	10.6	13.4	107.4
28	28 13C8-PFOSA	506.1 > 77.7	8.03e3	5.62e4	1.000	0.175	3.84	3.80	1.79	10.2	81.8
29	29 13C8-PFOS	507 > 79.9	1.05e4	1.01e4	1.000	0.951	3.89	3.85	12.9	13.6	108.9
30	30 13C2-PFDA	515.1 > 469.9	6.16e4	6.46e4	1.000	0.869	4.01	3.96	11.9	13.7	109.7
31	31 d3-N-MeFOSAA	573.3 > 419	1.16e4	5.62e4	1.000	0.013	4.03	3.99	2.58	199	122.5

70-130

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8/1/17

50-150

Dataset: U:\Q4.PRO\results\170727M1\170727M1-97.qld

Last Altered: Tuesday, August 01, 2017 12:26:31 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:27:14 Pacific Daylight Time

Name: 170727M1_97, Date: 28-Jul-2017, Time: 04:51:00, ID: ST170727M1-13 PFC CS3 17G2709, Description: PFC CS3 17G2709

① out of limit criteria.

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32 d5-N-EtFOSAA	589.3 > 419	1.10e4	5.62e4	1.000	0.013	4.12	4.05	2.45	193	118.6
33	33 13C2-PFUnA	565 > 519.8	5.05e4	5.62e4	1.000	0.928	4.17	4.13	11.2	12.1	96.8
34	34 13C2-PFDoA	615 > 569.7	3.49e3	5.62e4	1.000	0.071	4.34	4.29	0.777	10.9	87.4
35	35 13C2-PFTeDA	714.8 > 669.6	3.06e3	5.62e4	1.000	0.273	4.68	4.63	0.681	2.49	19.9
36	36 13C4-PFBA	217 > 171.8	2.53e4	2.53e4	1.000	1.000	1.32	1.35	12.5	12.5	100.0
37	37 13C5-PFHxA	318 > 272.9	7.53e4	7.53e4	1.000	1.000	3.19	3.15	5.00	5.00	100.0
38	38 13C3-PFHxS	401.9 > 79.9	1.07e4	1.07e4	1.000	1.000	3.56	3.49	12.5	12.5	100.0
39	39 13C8-PFOA	421.3 > 376	6.43e4	6.43e4	1.000	1.000	3.65	3.62	12.5	12.5	100.0
40	40 13C9-PFNA	472.2 > 426.9	6.88e4	6.88e4	1.000	1.000	3.83	3.80	12.5	12.5	100.0
41	41 13C4-PFOS	503 > 79.9	1.01e4	1.01e4	1.000	1.000	3.89	3.85	12.5	12.5	100.0
42	42 13C6-PFDA	519.1 > 473.7	6.46e4	6.46e4	1.000	1.000	4.01	3.96	12.5	12.5	100.0
43	43 13C7-PFUnA	570.1 > 524.8	5.62e4	5.62e4	1.000	1.000	4.17	4.13	12.5	12.5	100.0

SD-150
↓

Dataset: Untitled

Last Altered: Tuesday, August 01, 2017 12:30:23 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 12:32:43 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170727M1_47	ST170727M1-10 PFC CS3 17G2709	27-Jul-17	19:53:28
2	170727M1_48	IPA	27-Jul-17	20:04:14
3	170727M1_49	1700848-05RE1 DPH-MW2-17 0.12259	27-Jul-17	20:14:52
4	170727M1_50	1700848-06RE1 DPH-MW8-17 0.12027	27-Jul-17	20:25:31
5	170727M1_51	1700848-07RE1 DPH-MW5-17 0.11998	27-Jul-17	20:36:09
6	170727M1_52	1700848-08RE1 DPH-MW4-17 0.11759	27-Jul-17	20:46:48
7	170727M1_53	IPA	27-Jul-17	20:57:36
8	170727M1_54	B7G0067-BLK1 Method Blank 0.125	27-Jul-17	21:08:21
9	170727M1_55	IPA	27-Jul-17	21:19:00
10	170727M1_56	B7G0067-BS1 OPR 0.125	27-Jul-17	21:29:46
11	170727M1_57	1700855-01 TF5-EB-02 0.27357	27-Jul-17	21:40:25
12	170727M1_58	1700855-02 TF5-MW-987 0.27423	27-Jul-17	21:51:11
13	170727M1_59	1700855-03 TF5-MW-987D 0.27164	27-Jul-17	22:01:49
14	170727M1_60	B7G0067-MS1 Matrix Spike 0.27298	27-Jul-17	22:12:27
15	170727M1_61	B7G0067-MSD1 Matrix Spike Dup 0.2776	27-Jul-17	22:23:06
16	170727M1_62	1700855-04 TF5-MW-987-D 0.26865	27-Jul-17	22:33:52
17	170727M1_63	1700855-05 TF5-MW-991 0.2726	27-Jul-17	22:44:39
18	170727M1_64	1700855-06 TF5-MW-991D 0.27278	27-Jul-17	22:55:17
19	170727M1_65	IPA	27-Jul-17	23:05:56
20	170727M1_66	ST170727M1-11 PFC CS-1 17G2705	27-Jul-17	23:16:34
21	170727M1_67	IPA	27-Jul-17	23:27:21
22	170727M1_68	1700855-07 TF5-MW-993 0.26881	27-Jul-17	23:39:43
23	170727M1_69	1700855-08 TF5-MW-993D 0.2612	27-Jul-17	23:50:22
24	170727M1_70	1700855-09 TF5-MW-994 0.25188	28-Jul-17	00:01:08
25	170727M1_71	1700871-01 EB03-20170712 0.12146	28-Jul-17	00:11:55
26	170727M1_72	1700871-02 5-GW-05_DGMW41B-20170712 ...	28-Jul-17	00:22:44
27	170727M1_73	1700871-03 18-GW-18BGM03E-20170712 0....	28-Jul-17	00:33:31
28	170727M1_74	1700871-04 24-GW-24IN03-20170712 0.11741	28-Jul-17	00:44:15
29	170727M1_75	1700871-05 DUP02-20170712 0.11807	28-Jul-17	00:54:53
30	170727M1_76	1700871-06 24-GW-24EX13A-20170712 0.11...	28-Jul-17	01:05:31
31	170727M1_77	1700871-07 24-GW-24MW15D-20170712 0.1...	28-Jul-17	01:16:10

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	170727M1_78	IPA	28-Jul-17	01:26:56
33	170727M1_79	ST170727M1-12 PFC CS3 17G2709	28-Jul-17	01:37:35
34	170727M1_80	IPA	28-Jul-17	01:48:13
35	170727M1_81	1700871-08 16-GW-16_MW28-20170712 0.1...	28-Jul-17	01:58:51
36	170727M1_82	1700871-09 16-GW-16_MW19-20170712 0.1...	28-Jul-17	02:09:38
37	170727M1_83	1700871-10 EB04-20170713 0.11646	28-Jul-17	02:20:24
38	170727M1_84	1700871-11 16-GW-16_MW04-20170713 0.1...	28-Jul-17	02:31:03
39	170727M1_85	IPA	28-Jul-17	02:41:41
40	170727M1_86	B7G0108-BS1 OPR 0.125	28-Jul-17	02:52:19
41	170727M1_87	IPA	28-Jul-17	03:02:58
42	170727M1_88	B7G0108-BLK1 Method Blank 0.125	28-Jul-17	03:13:36
43	170727M1_89	1700856-01RE1 INFLUENT-20170710 0.121	28-Jul-17	03:24:15
44	170727M1_90	1700856-02RE1 DUP05-20170710 0.11647	28-Jul-17	03:34:53
45	170727M1_91	1700856-03RE1 MID-POINT-20170710 0.11731	28-Jul-17	03:45:40
46	170727M1_92	1700856-04RE1 EFFLUENT-20170710 0.12084	28-Jul-17	03:56:26
47	170727M1_93	B7G0108-MS1 Matrix Spike 0.12162	28-Jul-17	04:07:38
48	170727M1_94	B7G0108-MSD1 Matrix Spike Dup 0.11849	28-Jul-17	04:18:57
49	170727M1_95	1700856-06RE1 ERB-01-20170711 0.12043	28-Jul-17	04:29:35
50	170727M1_96	IPA	28-Jul-17	04:40:21
51	170727M1_97	ST170727M1-13 PFC CS3 17G2709	28-Jul-17	04:51:00
52	170727M1_98	IPA	28-Jul-17	05:01:38

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Last Altered: Tuesday, August 01, 2017 12:26:31 Pacific Daylight Time

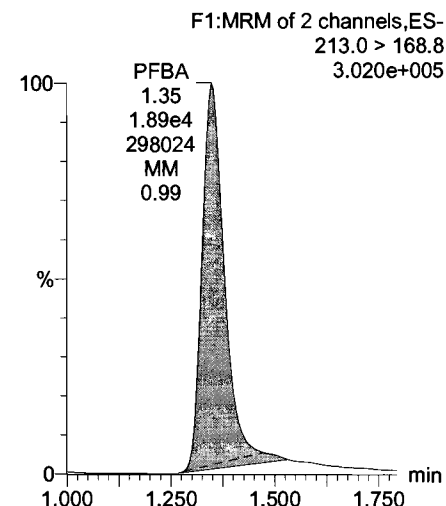
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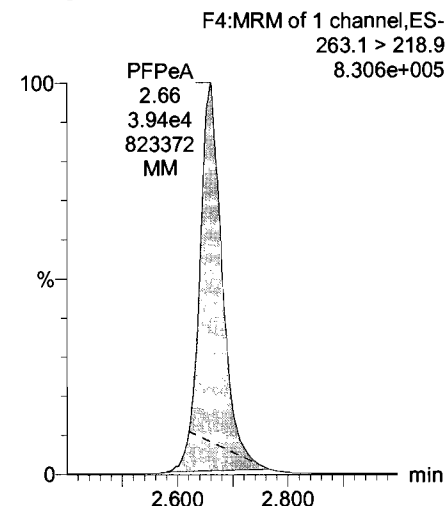
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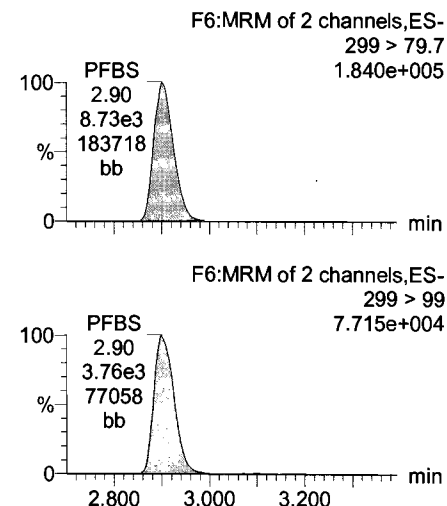
PFBA



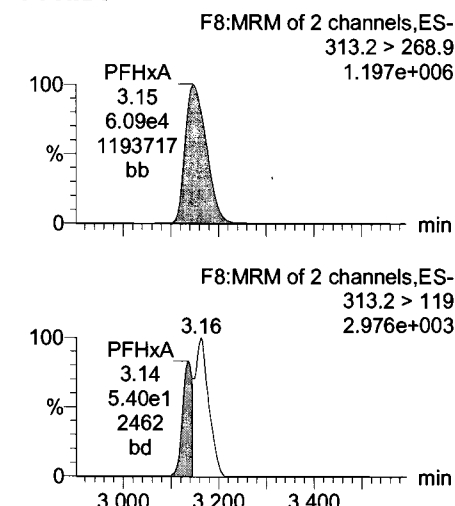
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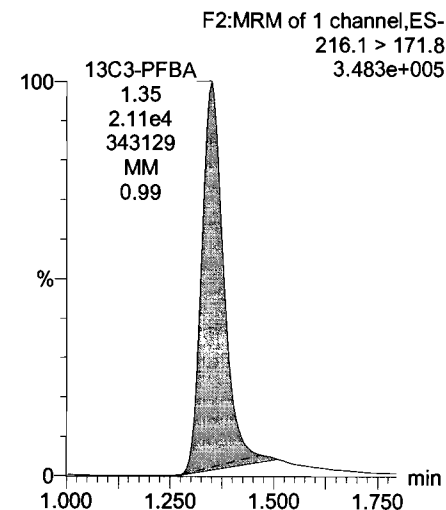
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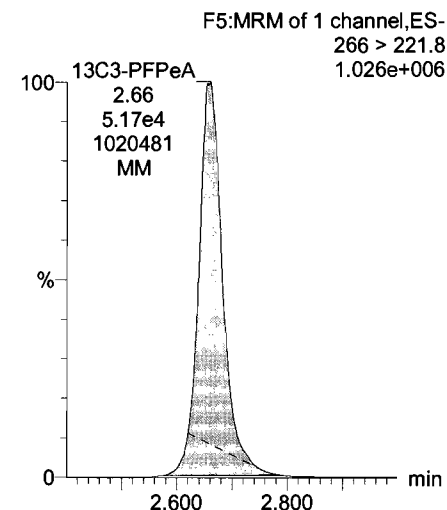
PFHxA



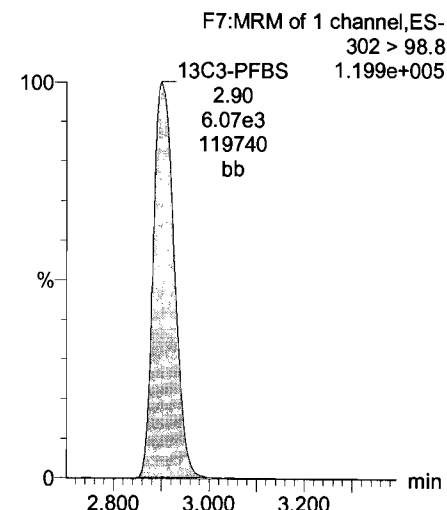
13C3-PFBA



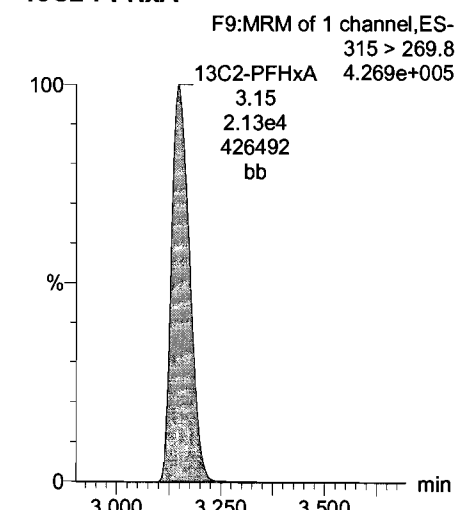
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



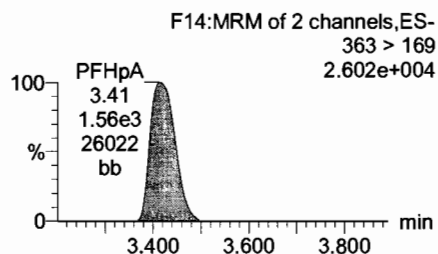
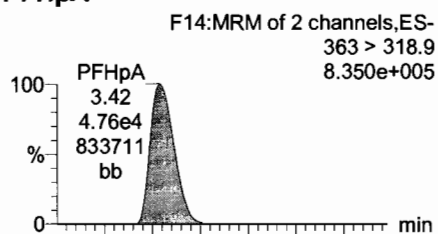
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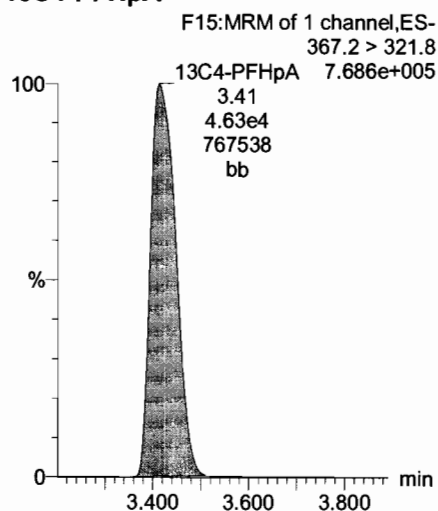
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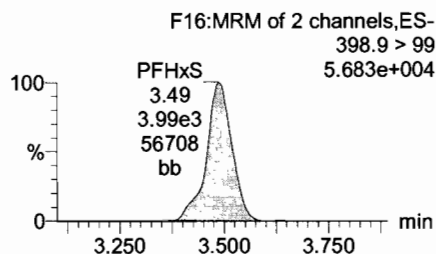
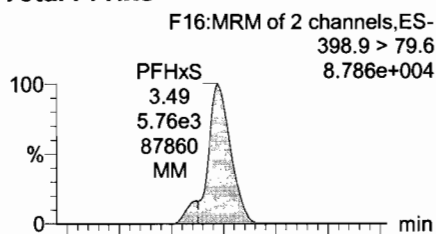
PFHpA



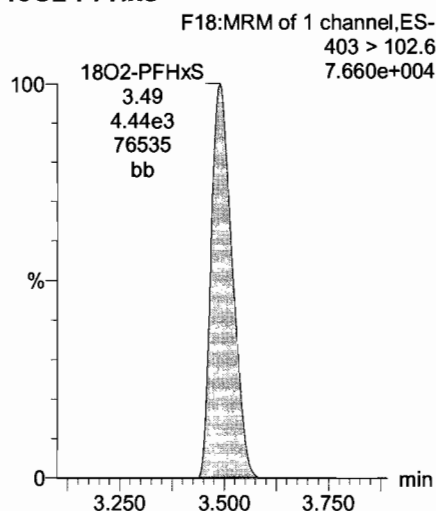
13C4-PFHpA



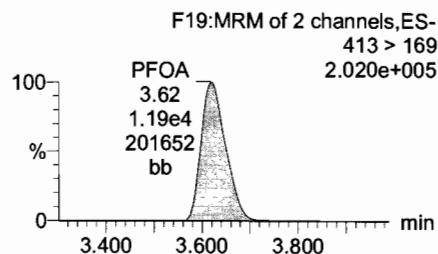
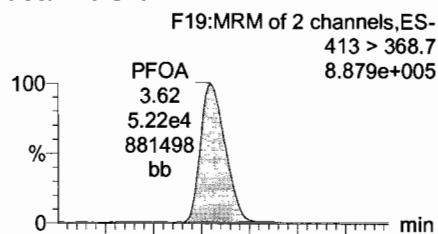
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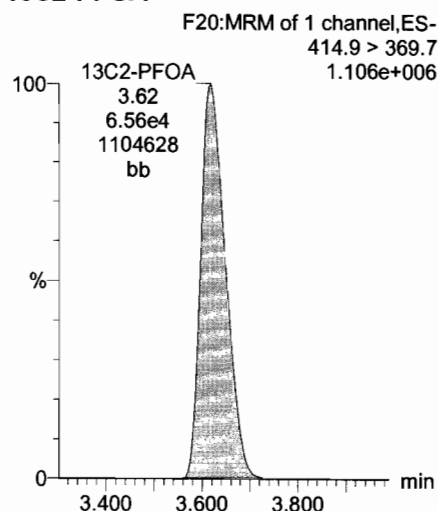
18O2-PFHxS



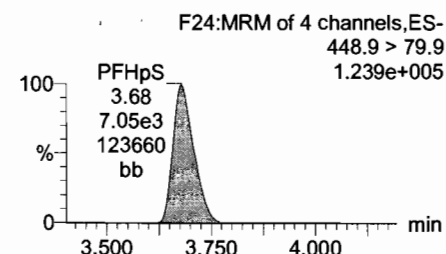
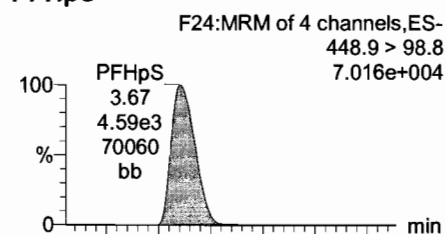
Total PFOA



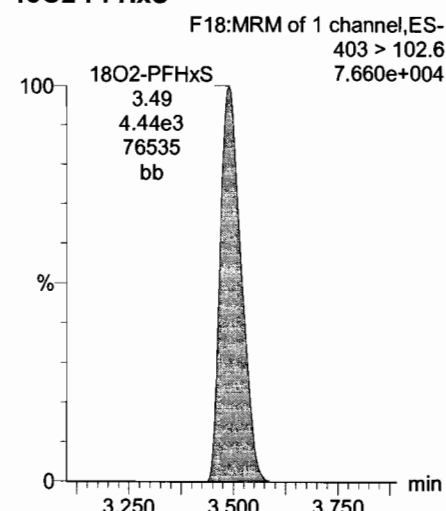
13C2-PFOA



PFHpS



18O2-PFHxS



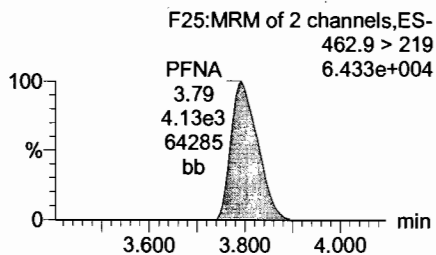
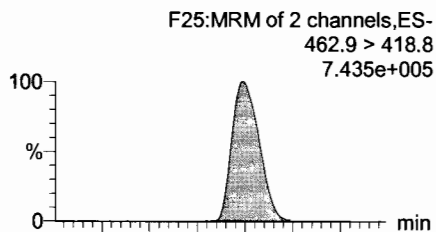
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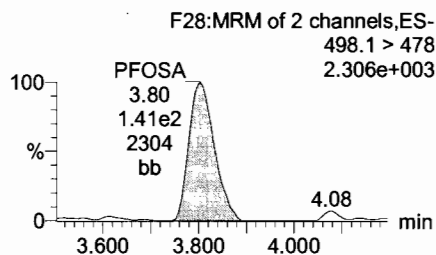
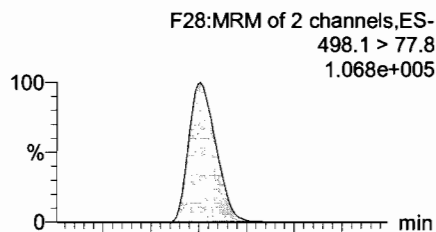
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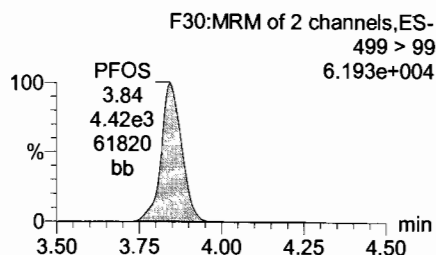
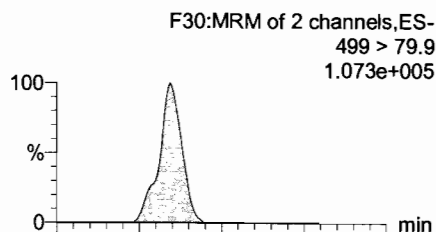
PFNA



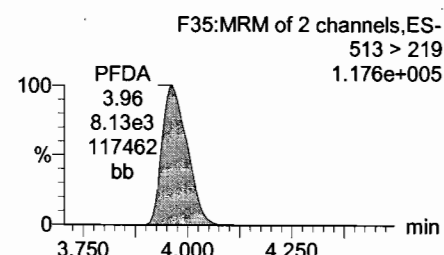
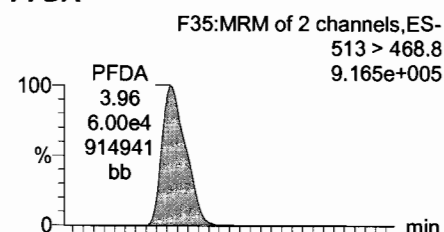
PFOSA



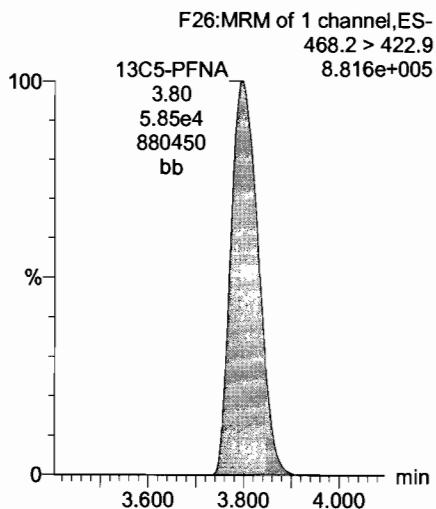
Total PFOS



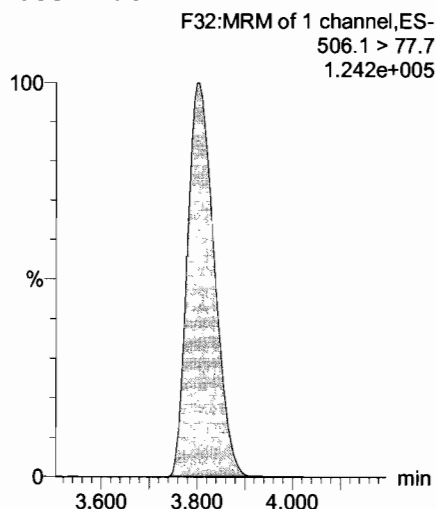
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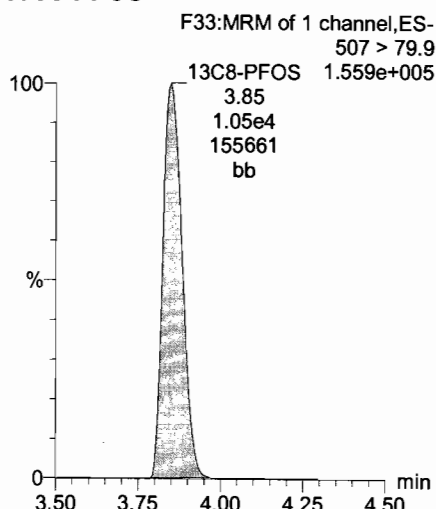
13C5-PFNA



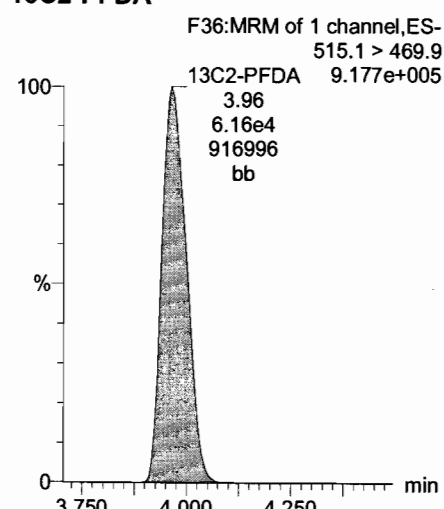
13C8-PFOSA



13C8-PFOS



13C2-PFDA

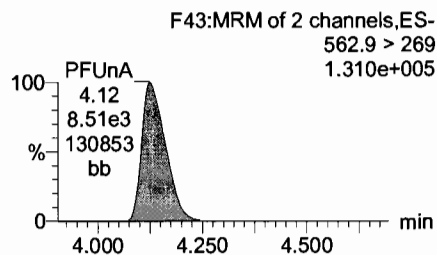
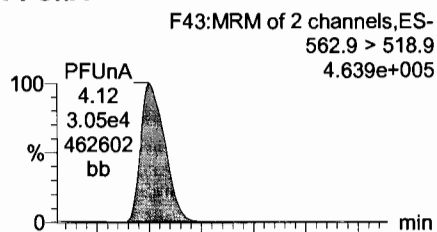


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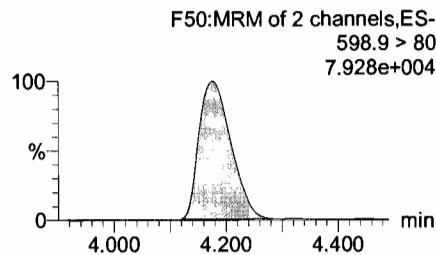
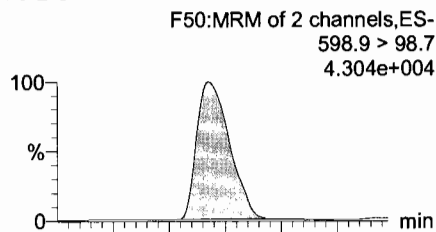
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Printed: Tuesday, August 01, 2017 12:27:14 Pacific Daylight Time

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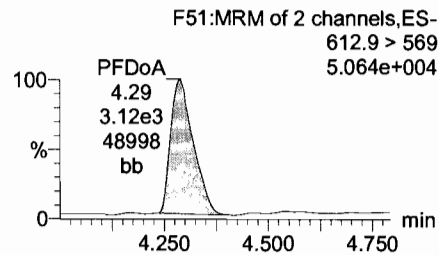
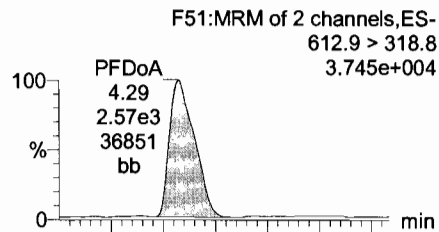
PFUnA



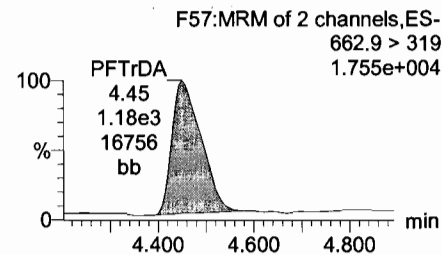
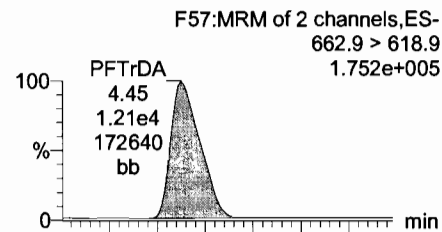
PFDS



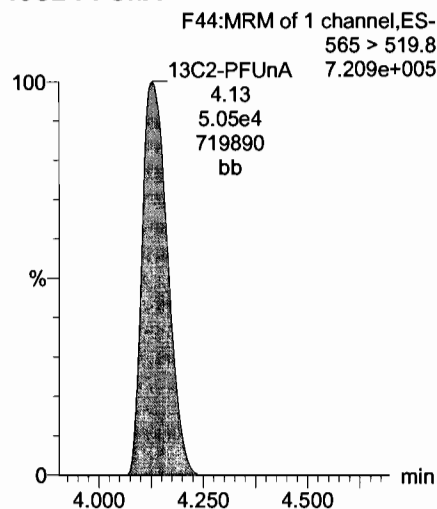
PFDaA



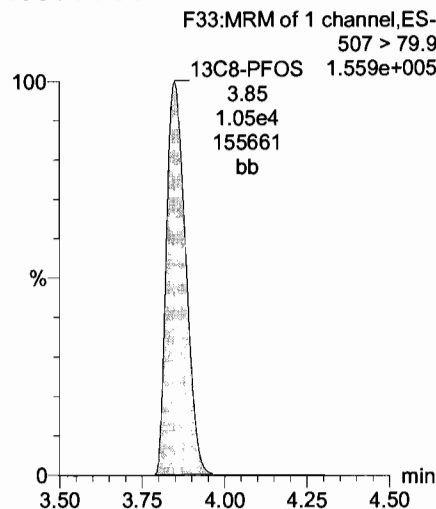
PFTTrDA



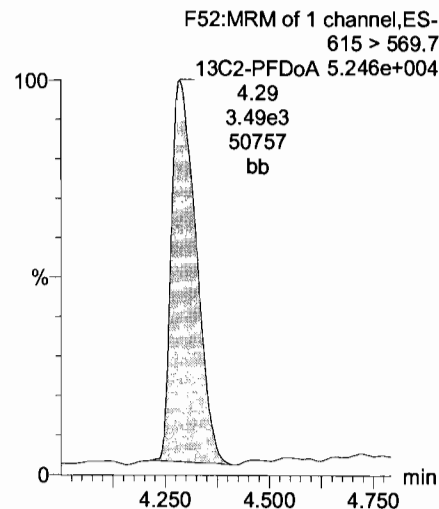
13C2-PFUnA



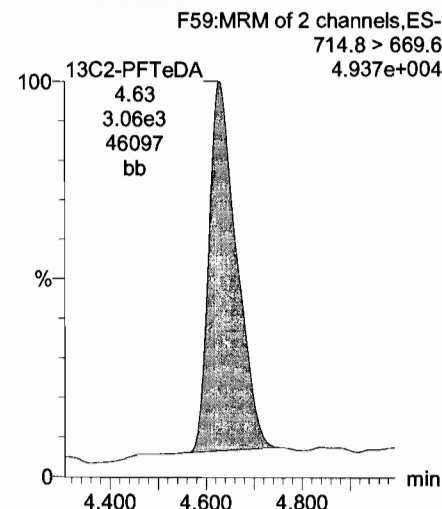
13C8-PFOS



13C2-PFDaA



13C2-PFTeDA



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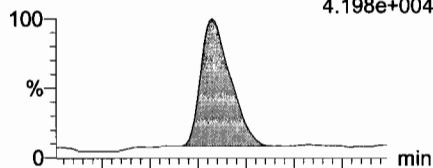
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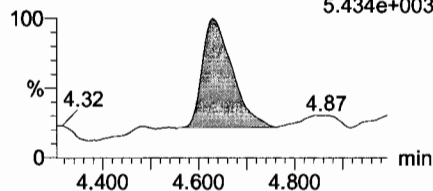
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PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
4.198e+004

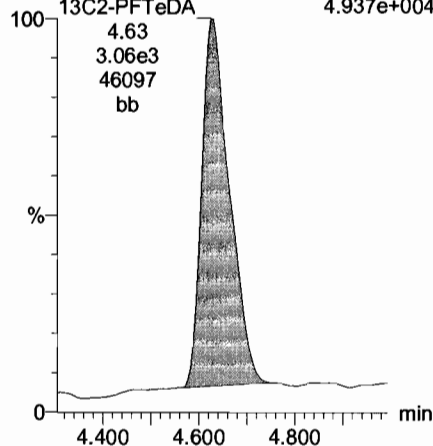


F58:MRM of 4 channels,ES-
712.9 > 369
5.434e+003



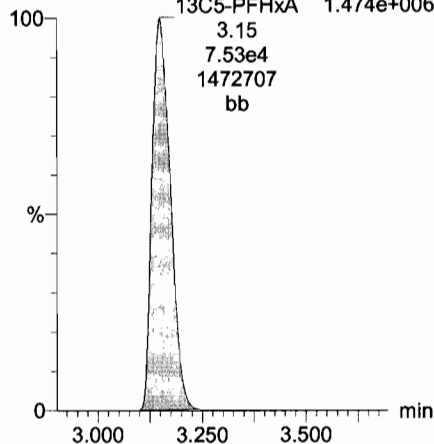
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
4.937e+004



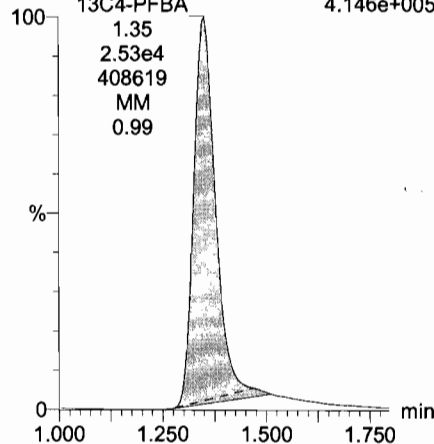
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
1.474e+006



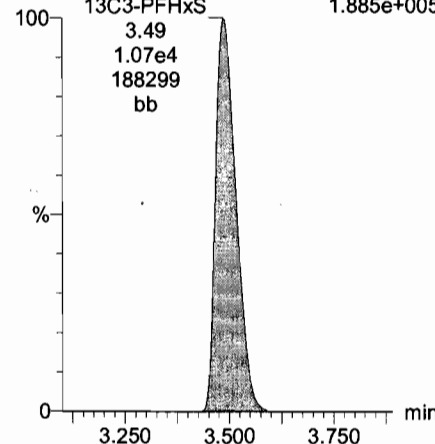
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
4.146e+005



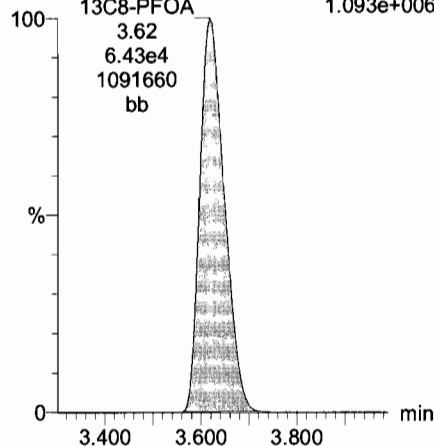
13C3-PFHxS

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.885e+005



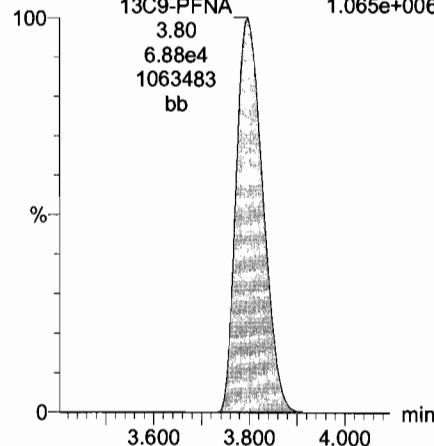
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.093e+006



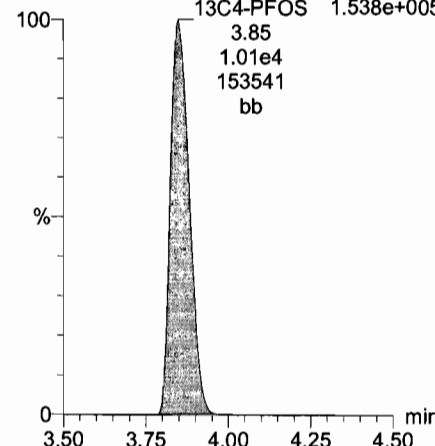
13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
1.065e+006



13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.538e+005



Dataset: U:\Q4.PRO\results\170727M1\170727M1-97.qld

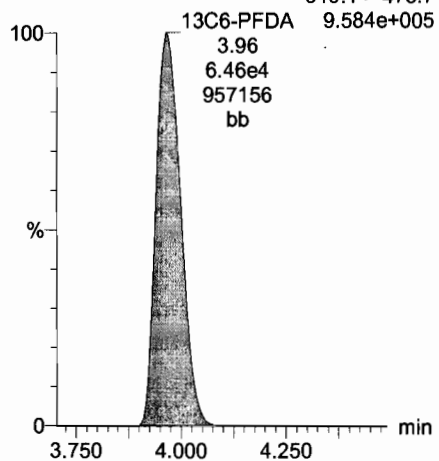
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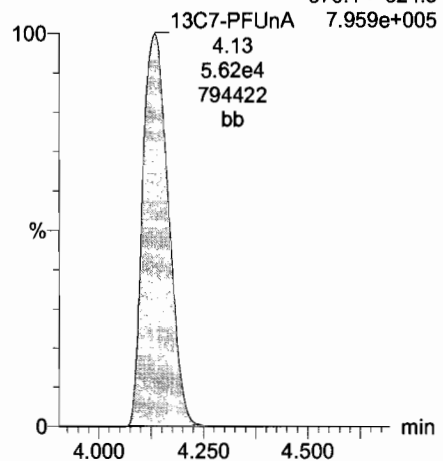
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8



Dataset: U:\Q4.PRO\results\170731M1\170731M1-2.qld

Last Altered: Monday, July 31, 2017 13:00:17 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:18:58 Pacific Daylight Time

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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_2, Date: 31-Jul-2017, Time: 12:09:51, ID: ST170731M1-1 PFC CS0 17G2826, Description: PFC CS0 17G2826

Ⓜ out of limit on taran.

	# Name	Trace	Area	IS Area	Wt/Vol	RRF	Pred.RT	RT	y Axis Resp	Conc	%Rec
1	1 PFBA	213.0 > 168.8	2.41e3	2.53e4	1.000		1.32	1.35	1.19	1.00	100.1
2	2 PFPeA	263.1 > 218.9	4.67e3	5.57e4	1.000		2.77	2.65	1.05	1.04	103.5
3	3 PFBS	299 > 79.7	1.23e3	7.54e3	1.000		2.96	2.90	2.04	1.10	110.3
4	4 PFHxA	313.2 > 268.9	1.07e4	3.27e4	1.000		3.19	3.14	1.64	1.08	107.9
5	5 PFHpA	363 > 318.9	8.09e3	7.82e4	1.000		3.45	3.41	1.29	1.04	103.9
6	6 PFHxS	398.9 > 79.6	9.84e2	7.52e3	1.000		3.56	3.49	1.64	0.951	95.1
7	7 PFOA	413 > 368.7	9.07e3	1.01e5	1.000		3.65	3.62	1.12	1.03	102.6
8	8 PFHpS	448.9 > 98.8	8.37e2	1.01e5	1.000		3.65	3.68	0.103	1.23	123.1
9	9 PFNA	462.9 > 418.8	8.47e3	8.59e4	1.000		3.83	3.79	1.23	1.07	107.4
10	10 PFOSA	498.1 > 77.8	8.82e2	1.02e4	1.000		3.84	3.80	1.08	0.949	94.9
11	11 PFOS	499 > 79.9	1.40e3	1.89e4	1.000		3.89	3.85	0.924	0.893	89.3
12	12 PFDA	513 > 468.8	7.86e3	7.94e4	1.000		4.01	3.97	1.24	0.891	89.1
13	13 N-MeFOSAA	570.1 > 419	2.21e3	1.87e4	1.000		4.03	3.99	19.2	0.980	98.0
14	14 N-EtFOSAA	584.2 > 419	1.83e3	1.93e4	1.000		4.10	4.06	15.3	0.954	95.4
15	15 PFUnA	562.9 > 518.9	6.68e3	9.51e4	1.000		4.11	4.13	0.878	1.06	106.4
16	16 PFDS	598.9 > 98.7	7.44e2	9.51e4	1.000		4.22	4.17	0.0977	1.38	138.3
17	17 PFDoA	612.9 > 318.8	8.77e2	1.02e4	1.000		4.34	4.29	1.08	0.954	95.4
18	18 PFTrDA	662.9 > 618.9	1.00e4	1.02e4	1.000		4.50	4.46	12.3	1.15	114.5
19	19 PFTeDA	712.9 > 668.8	6.90e3	7.13e4	1.000		4.68	4.63	1.21	1.02	102.4
20	20 13C3-PFBA	216.1 > 171.8	2.53e4	2.43e4	1.000	1.068	1.32	1.35	13.0	12.1	97.1
21	21 13C3-PFPeA	266 > 221.8	5.57e4	9.54e4	1.000	0.271	2.77	2.65	2.92	10.8	86.0
22	22 13C3-PFBS	302 > 98.8	7.54e3	9.54e4	1.000	0.033	2.96	2.90	0.395	12.0	95.6
23	23 13C2-PFHxA	315 > 269.8	3.27e4	9.54e4	1.000	0.335	3.19	3.14	1.71	5.11	102.2
24	24 13C4-PFHpA	367.2 > 321.8	7.82e4	9.54e4	1.000	0.369	3.45	3.41	4.10	11.1	88.9
25	25 18O2-PFHxS	403 > 102.6	7.52e3	1.47e4	1.000	0.460	3.56	3.49	6.39	13.9	111.1
26	26 13C2-PFOA	414.9 > 369.7	1.01e5	7.14e4	1.000	1.293	3.65	3.62	17.7	13.7	109.8
27	27 13C5-PFNA	468.2 > 422.9	8.59e4	8.16e4	1.000	0.986	3.83	3.79	13.2	13.4	106.8
28	28 13C8-PFOSA	506.1 > 77.7	1.02e4	8.61e4	1.000	0.132	3.84	3.80	1.48	11.2	89.4
29	29 13C8-PFOS	507 > 79.9	1.89e4	1.46e4	1.000	1.184	3.89	3.84	16.2	13.7	109.5
30	30 13C2-PFDA	515.1 > 469.9	7.94e4	7.68e4	1.000	0.998	4.01	3.96	12.9	12.9	103.5
31	31 d3-N-MeFOSAA	573.3 > 419	1.87e4	8.61e4	1.000	0.018	4.03	3.99	2.72	154	94.6
32	32 d5-N-EtFOSAA	589.3 > 419	1.93e4	8.61e4	1.000	0.018	4.12	4.06	2.81	158	97.2

70-130

DM
9/1/17

50-150

Dataset: U:\Q4.PRO\results\170731M1\170731M1-2.qld

Last Altered: Monday, July 31, 2017 13:00:17 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:18:58 Pacific Daylight Time

Name: 170731M1_2, Date: 31-Jul-2017, Time: 12:09:51, ID: ST170731M1-1 PFC CS0 17G2826, Description: PFC CS0 17G2826

	# Name	Trace	Area	IS Area	Wt/Vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	33 13C2-PFUnA	565 > 519.8	9.51e4	8.61e4	1.000	1.129	4.17	4.13	13.8	12.2	97.9
34	34 13C2-PFDoA	615 > 569.7	1.02e4	8.61e4	1.000	0.116	4.34	4.29	1.48	12.7	102.0
35	35 13C2-PFTeDA	714.8 > 669.6	7.13e4	8.61e4	1.000	0.762	4.68	4.63	10.4	13.6	108.7
36	36 13C4-PFBA	217 > 171.8	2.43e4	2.43e4	1.000	1.000	1.32	1.36	12.5	12.5	100.0
37	37 13C5-PFHxA	318 > 272.9	9.54e4	9.54e4	1.000	1.000	3.19	3.14	5.00	5.00	100.0
38	38 13C3-PFHxS	401.9 > 79.9	1.47e4	1.47e4	1.000	1.000	3.56	3.49	12.5	12.5	100.0
39	39 13C8-PFOA	421.3 > 376	7.14e4	7.14e4	1.000	1.000	3.65	3.62	12.5	12.5	100.0
40	40 13C9-PFNA	472.2 > 426.9	8.16e4	8.16e4	1.000	1.000	3.83	3.79	12.5	12.5	100.0
41	41 13C4-PFOS	503 > 79.9	1.46e4	1.46e4	1.000	1.000	3.89	3.85	12.5	12.5	100.0
42	42 13C6-PFDA	519.1 > 473.7	7.68e4	7.68e4	1.000	1.000	4.01	3.96	12.5	12.5	100.0
43	43 13C7-PFUnA	570.1 > 524.8	8.61e4	8.61e4	1.000	1.000	4.17	4.13	12.5	12.5	100.0

SD-150
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Sample List Report

MassLynx MassLynx V4.1 SCN945 SCN960

Sample List: U:\Q4.PRO\SampleDB\170731M1.SPL
Last Modified: Monday, July 31, 2017 14:34:49 Pacific Daylight Time
Printed: Monday, July 31, 2017 15:57:00 Pacific Daylight Time

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Page Position (1, 1)

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1	170731M1_1	---	IPA	IPA	1.0000	1:48	Blank
2	170731M1_2	---	ST170731M1-1 PFC CS0 17G2826	PFC CS0 17G2826	1.0000	1:1	Analyte
3	170731M1_3	---	IPA	IPA	1.0000	1:48	Blank
4	170731M1_4	---	B7G0067-BS1 OPR 0.125	OPR	0.1250	1:3	Analyte
5	170731M1_5	---	IPA	IPA	1.0000	1:48	Blank
6	170731M1_6	---	B7G0067-BLK1 Method Blank 0.125	Method Blank	0.1250	1:4	Analyte
7	170731M1_7	---	1700855-01 TF5-EB-02 0.27357	TF5-EB-02	0.2736	1:5	Analyte
8	170731M1_8	---	1700855-02 TF5-MW-987 0.27423	TF5-MW-987	0.2742	1:6	Analyte
9	170731M1_9	---	1700855-03 TF5-MW-987D 0.27164	TF5-MW-987D	0.2716	1:7	Analyte
10	170731M1_10	---	B7G0067-MS1 Matrix Spike 0.27298	Matrix Spike	0.2730	1:8	Analyte
11	170731M1_11	---	B7G0067-MSD1 Matrix Spike Dup 0.2776	Matrix Spike Dup	0.2776	1:9	Analyte
12	170731M1_12	---	1700855-04 TF5-MW-987-D 0.26865	TF5-MW-987-D	0.2687	1:10	Analyte
13	170731M1_13	---	1700855-05 TF5-MW-991 0.2726	TF5-MW-991	0.2726	1:11	Analyte
14	170731M1_14	---	1700855-06 TF5-MW-991D 0.27278	TF5-MW-991D	0.2728	1:12	Analyte
15	170731M1_15	---	1700855-07 TF5-MW-993 0.26881	TF5-MW-993	0.2688	1:13	Analyte
16	170731M1_16	---	1700855-08 TF5-MW-993D 0.2612	TF5-MW-993D	0.2612	1:14	Analyte
17	170731M1_17	---	1700855-09 TF5-MW-994 0.25188	TF5-MW-994	0.2519	1:15	Analyte
18	170731M1_18	---	1700845-03@40X MW-27S-20170707 0.11824	MW-27S-20170707	0.1182	1:16	Analyte
19	170731M1_19	---	IPA	IPA	1.0000	1:48	Blank
20	170731M1_20	---	ST170731M1-2 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
21	170731M1_21	---	IPA	IPA	1.0000	1:48	Blank
22	170731M1_22	---	1700871-01 EB03-20170712 0.12146	EB03-20170712	0.1215	1:17	Analyte
23	170731M1_23	---	1700871-02 5-GW-05_DGMW41B-20170712 0.11547	5-GW-05_DGMW41B-20170712	0.1155	1:18	Analyte
24	170731M1_24	---	1700871-03 18-GW-18BGM03E-20170712 0.11765	18-GW-18BGM03E-20170712	0.1177	1:19	Analyte
25	170731M1_25	---	1700871-04 24-GW-24IN03-20170712 0.11741	24-GW-24IN03-20170712	0.1174	1:20	Analyte
26	170731M1_26	---	1700871-05 DUP02-20170712 0.11807	DUP02-20170712	0.1181	1:21	Analyte
27	170731M1_27	---	1700871-06 24-GW-24EX13A-20170712 0.11851	24-GW-24EX13A-20170712	0.1185	1:22	Analyte
28	170731M1_28	---	1700871-07 24-GW-24MW15D-20170712 0.1193	24-GW-24MW15D-20170712	0.1193	1:23	Analyte
29	170731M1_29	---	1700871-08 16-GW-16_MW28-20170712 0.11899	16-GW-16_MW28-20170712	0.1190	1:24	Analyte
30	170731M1_30	---	1700871-09 16-GW-16_MW19-20170712 0.11913	16-GW-16_MW19-20170712	0.1191	1:25	Analyte
31	170731M1_31	---	1700871-10 EB04-20170713 0.11646	EB04-20170713	0.1165	1:26	Analyte
32	170731M1_32	---	1700871-11 16-GW-16_MW04-20170713 0.12043	16-GW-16_MW04-20170713	0.1204	1:27	Analyte
33	170731M1_33	---	IPA	IPA	1.0000	1:48	Blank
34	170731M1_34	---	ST170731M1-3 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
35	170731M1_35	---	IPA	IPA	1.0000	1:48	Blank
36	170731M1_36	---	1700856-12RE1@5X MW-31S-20170711 0.11732	MW-31S-20170711	0.1173	1:28	Analyte
37	170731M1_37	---	1700935-01 RES29-BLK_20170726 0.11182	RES29-BLK_20170726	0.1118	1:29	Analyte
38	170731M1_38	---	1700935-04 RES29-GAC2_20170726 0.12639	RES29-GAC2_20170726	0.1264	1:30	Analyte
39	170731M1_39	---	IPA	IPA	1.0000	1:48	Blank
40	170731M1_40	---	ST170731M1-4 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte

Sample List Report

MassLynx MassLynx V4.1 SCN945 SCN960

Sample List: U:\Q4.PRO\SampleDB\170731M1.SPL
Last Modified: Monday, July 31, 2017 14:34:49 Pacific Daylight Time
Printed: Monday, July 31, 2017 15:57:00 Pacific Daylight Time

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Page Position (1, 2)

File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
41 170731M1_41	---	IPA	IPA	1.0000	1:48	Blank
42 170731M1_42	---	B7G0122-BS1 OPR 0.25	OPR	0.2500	1:31	Analyte
43 170731M1_43	---	IPA	IPA	1.0000	1:48	Blank
44 170731M1_44	---	B7G0122-BLK1 Method Blank 0.25	Method Blank	0.2500	1:32	Analyte
45 170731M1_45	---	1700891-06RE1 VEL FOAM 0.17113	VEL FOAM	0.1711	1:33	Analyte
46 170731M1_46	---	1700920-01 RCDM-MW-28S-20170719 0.1113	RCDM-MW-28S-20170719	0.1113	1:34	Analyte
47 170731M1_47	---	1700920-02 LF-MW-12S-20170719 0.11113	LF-MW-12S-20170719	0.1111	1:35	Analyte
48 170731M1_48	---	1700920-03 RCDM-MW-14S-20170720 0.11405	RCDM-MW-14S-20170720	0.1141	1:36	Analyte
49 170731M1_49	---	1700920-04 MH-DUP01-20170720 0.12177	MH-DUP01-20170720	0.1218	1:37	Analyte
50 170731M1_50	---	1700920-05 MH-A97-20170720 0.12086	MH-A97-20170720	0.1209	1:38	Analyte
51 170731M1_51	---	1700920-06 MH-H93-20170720 0.11357	MH-H93-20170720	0.1136	1:39	Analyte
52 170731M1_52	---	IPA	IPA	1.0000	1:48	Blank
53 170731M1_53	---	ST170731M1-5 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
54 170731M1_54	---	IPA	IPA	1.0000	1:48	Blank
55 170731M1_55	---	1700920-07 RCDM-BLANK-20170720 0.11872	RCDM-BLANK-20170720	0.1187	1:40	Analyte
56 170731M1_56	---	1700920-08 MH-C94-20170720 0.11568	MH-C94-20170720	0.1157	1:41	Analyte
57 170731M1_57	---	1700920-09 RCDM-MW-13S-20170719 0.11866	RCDM-MW-13S-20170719	0.1187	1:42	Analyte
58 170731M1_58	---	1700920-10 LF-MW-14S-20170720 0.11481	LF-MW-14S-20170720	0.1148	1:43	Analyte
59 170731M1_59	---	1700920-11 LF-MW-11BR-20170720 0.11664	LF-MW-11BR-20170720	0.1166	1:44	Analyte
60 170731M1_60	---	1700920-12 LF-MW-13S-20170719 0.11667	LF-MW-13S-20170719	0.1167	1:45	Analyte
61 170731M1_61	---	1700920-13 RCDM-MW-11BR-20170720 0.11813	RCDM-MW-11BR-20170720	0.1181	1:46	Analyte
62 170731M1_62	---	1700920-14 RCDM-MW-12S-20170719 0.11619	RCDM-MW-12S-20170719	0.1162	1:47	Analyte
63 170731M1_63	---	1700920-15 LF-MW-28S-20170719 0.11572	LF-MW-28S-20170719	0.1157	2:1	Analyte
64 170731M1_64	---	1700920-16 DUP-07-20170719 0.12023	DUP-07-20170719	0.1202	2:2	Analyte
65 170731M1_65	---	1700920-17 FRB04-20170719 0.11007	FRB04-20170719	0.1101	2:3	Analyte
66 170731M1_66	---	IPA	IPA	1.0000	1:48	Blank
67 170731M1_67	---	ST170731M1-6 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
68 170731M1_68	---	IPA	IPA	1.0000	1:48	Blank

LC Calibration Standards Review Checklist

Calibration ID:	ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
ST 170731 M1-1 6 M H	☒	☒ ①	☒	☒	☒	☒	☒
-2 L M H	☒	☒	☒	☒	☒	☒	☒
-3 L M H	☒	☒	☒	☒	☒	☒	☒
-4 L M H	☒	☒	☒	☒	☒	☒	☒
-5 L M H	☒	☒	☒	☒	☒	☒	☒
-6 L M H	☒	☒	☒	☒	☒	☒	☒
L M H	☐	☐	☐	☐	☐	☐	☐
L M H	☐	☐	☐	☐	☐	☐	☐
L M H	☐	☐	☐	☐	☐	☐	☐
L M H	☐	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: 6/24/17

Run Log Present: ☒

of Samples per Sequence Checked: ☒

Reviewed By: WJL 8/1/17
Initials/Date

Comments:
④ PDS at of km + criteria.
Jm 8/1/17

Dataset: U:\Q4.PRO\results\170731M1\170731M1-2.qld

Last Altered: Monday, July 31, 2017 13:00:17 Pacific Daylight Time

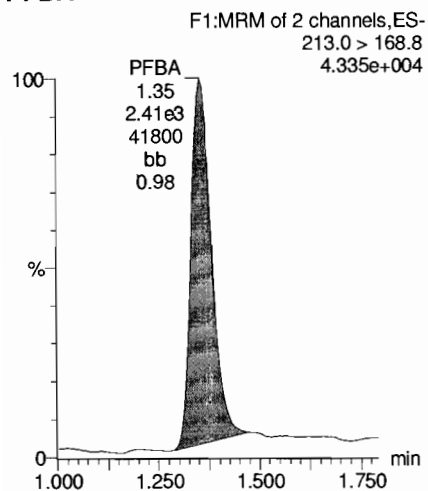
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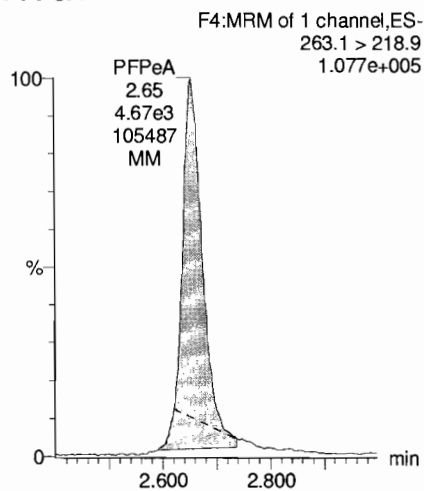
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Name: 170731M1_2, Date: 31-Jul-2017, Time: 12:09:51, ID: ST170731M1-1 PFC CS0 17G2826, Description: PFC CS0 17G2826

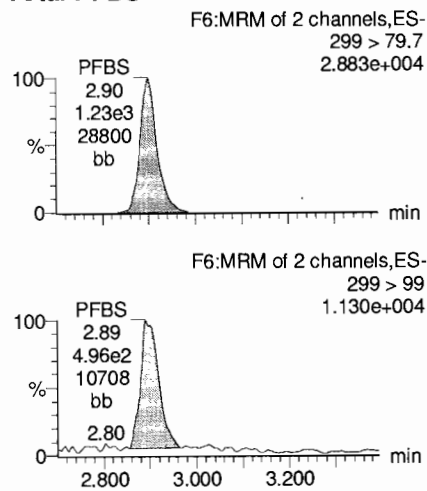
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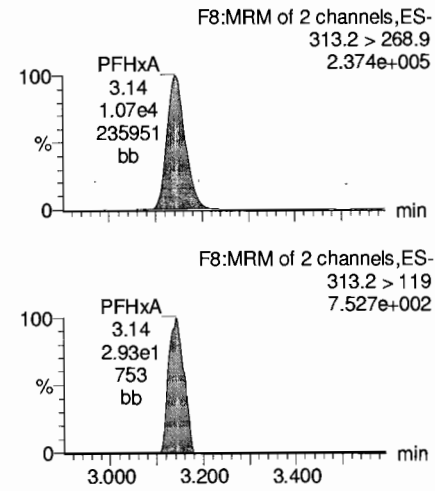
PFPeA



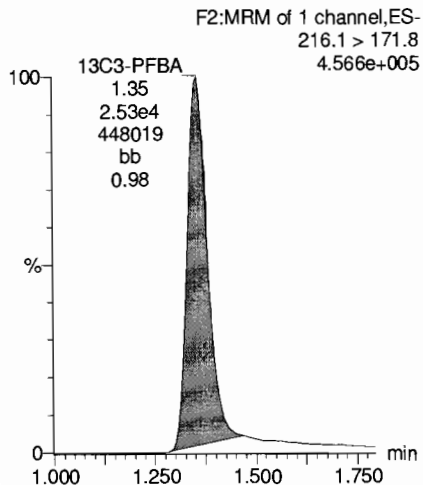
Total PFBS



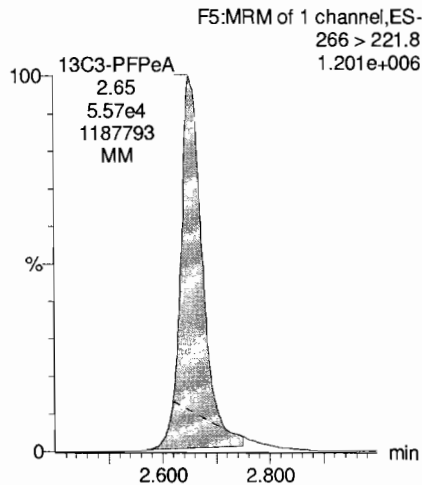
PFHxA



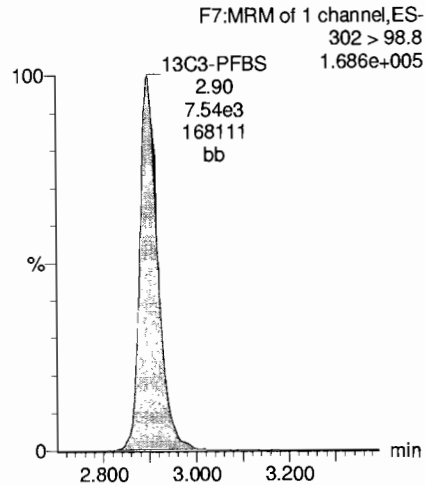
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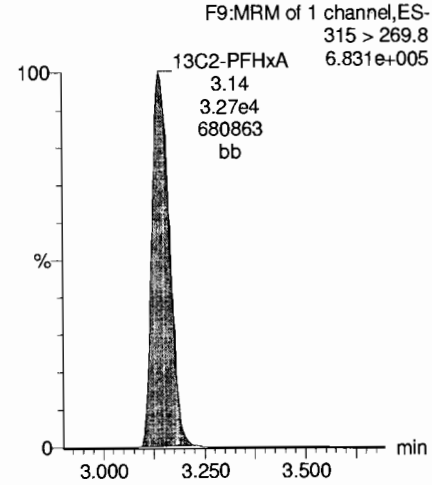
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



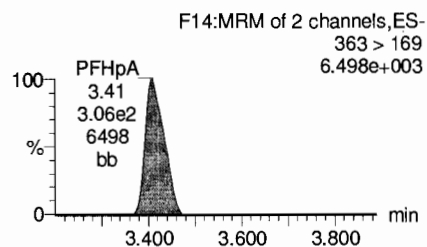
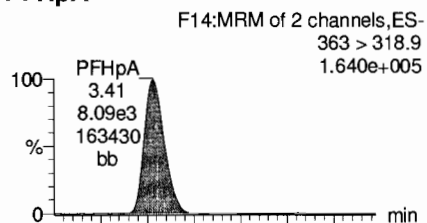
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Last Altered: Monday, July 31, 2017 13:00:17 Pacific Daylight Time

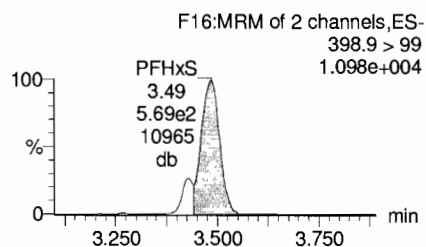
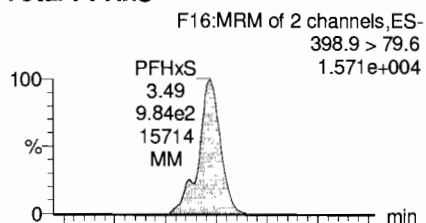
Printed: Tuesday, August 01, 2017 10:18:58 Pacific Daylight Time

Name: 170731M1_2, Date: 31-Jul-2017, Time: 12:09:51, ID: ST170731M1-1 PFC CS0 17G2826, Description: PFC CS0 17G2826

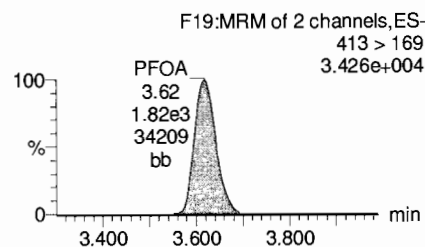
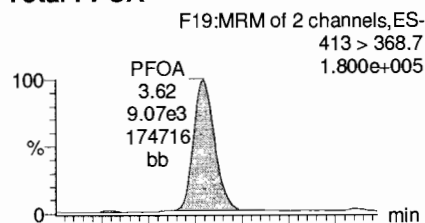
PFHpA



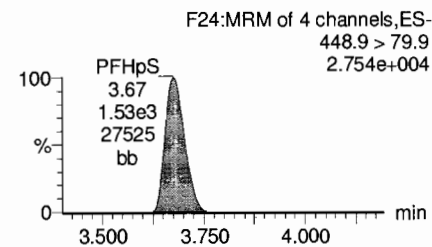
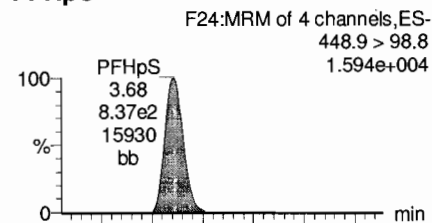
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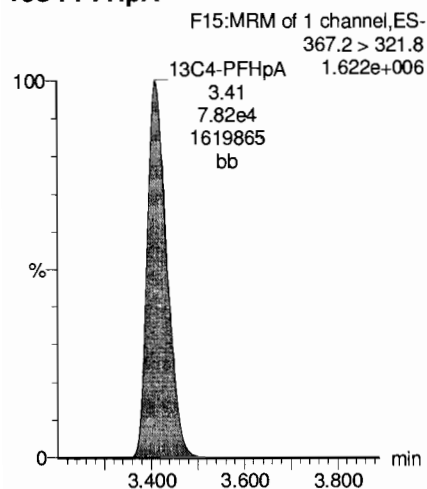
Total PFOA



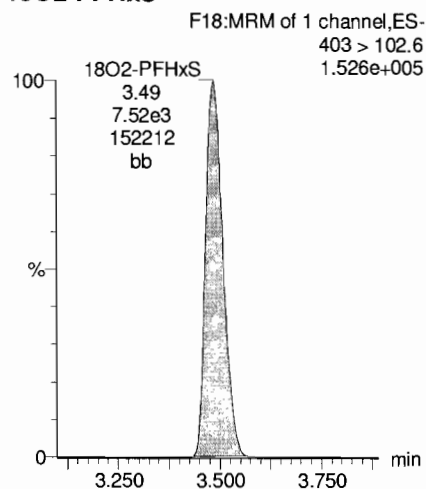
PFHpS



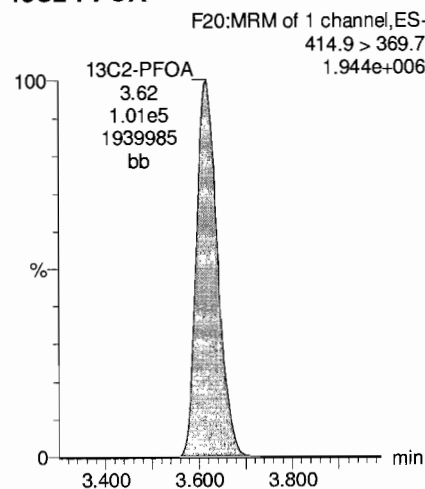
13C4-PFHpA



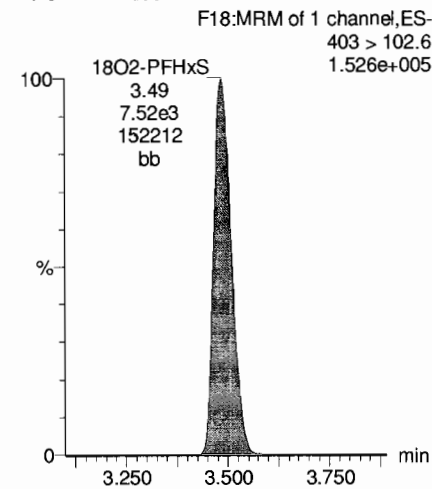
18O2-PFHxS



13C2-PFOA



18O2-PFHxS



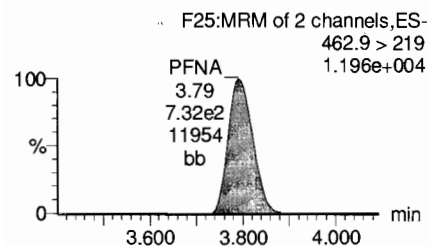
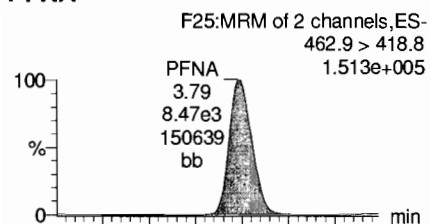
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Last Altered: Monday, July 31, 2017 13:00:17 Pacific Daylight Time

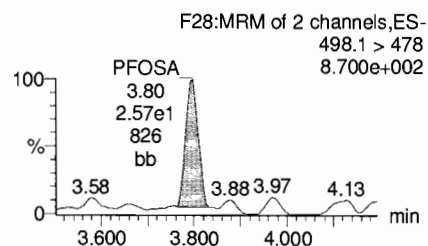
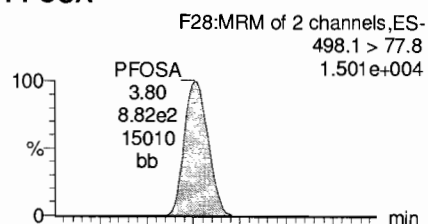
Printed: Tuesday, August 01, 2017 10:18:58 Pacific Daylight Time

Name: 170731M1_2, Date: 31-Jul-2017, Time: 12:09:51, ID: ST170731M1-1 PFC CS0 17G2826, Description: PFC CS0 17G2826

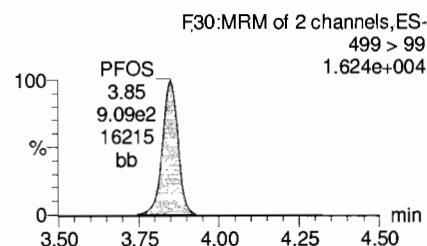
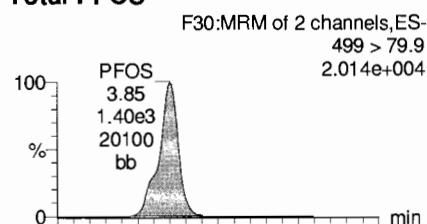
PFNA



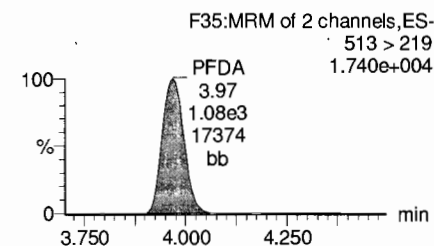
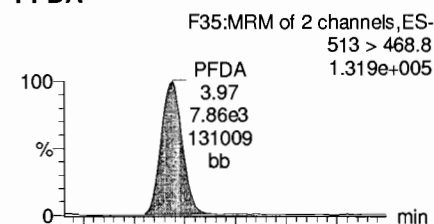
PFOSA



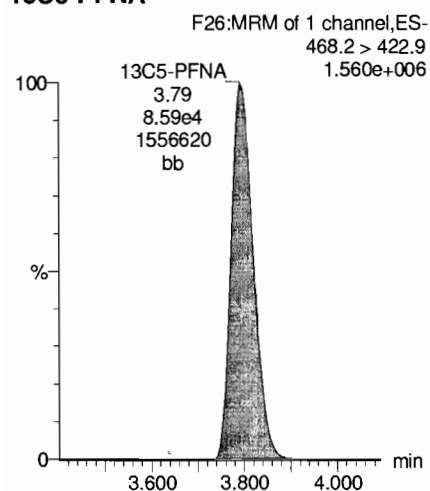
Total PFOS



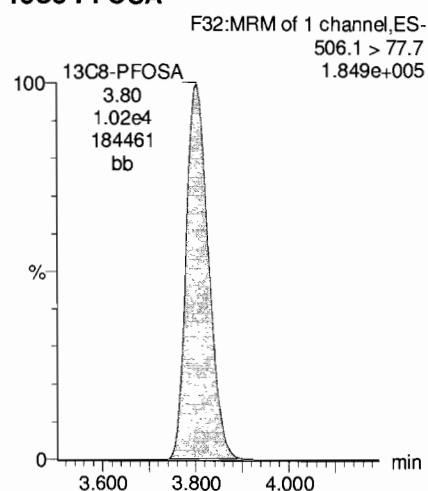
PFDA



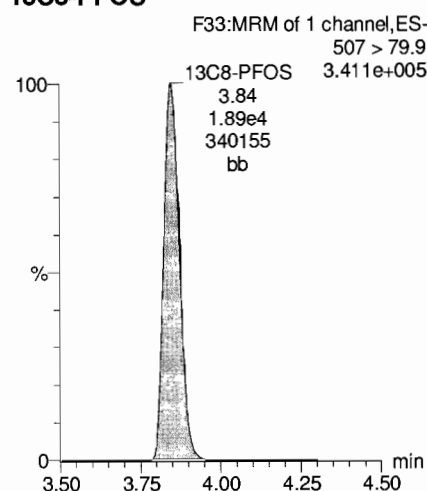
13C5-PFNA



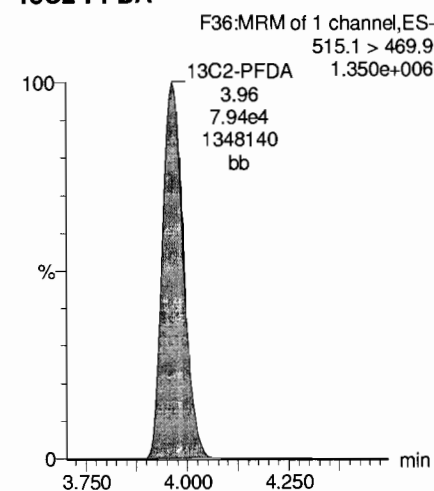
13C8-PFOSA



13C8-PFOS



13C2-PFDA



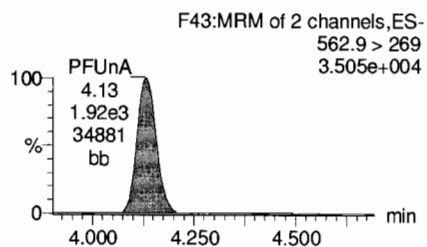
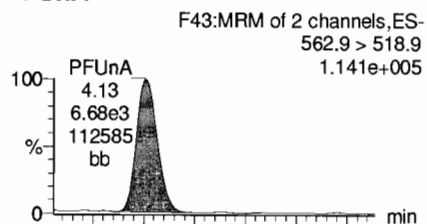
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Last Altered: Monday, July 31, 2017 13:00:17 Pacific Daylight Time

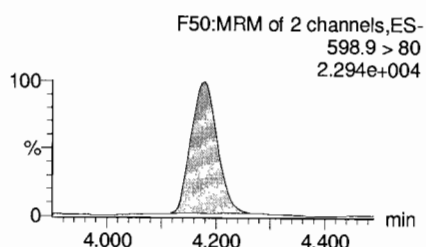
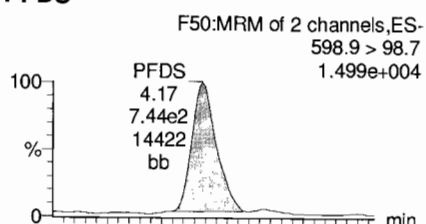
Printed: Tuesday, August 01, 2017 10:18:58 Pacific Daylight Time

Name: 170731M1_2, Date: 31-Jul-2017, Time: 12:09:51, ID: ST170731M1-1 PFC CS0 17G2826, Description: PFC CS0 17G2826

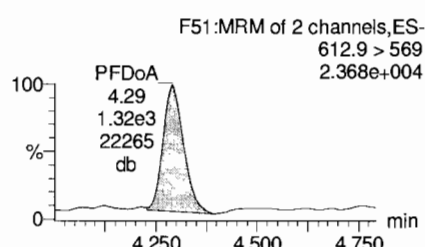
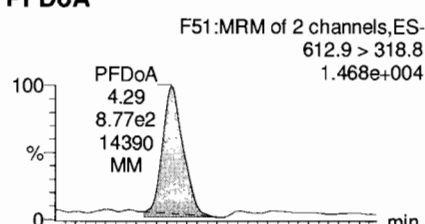
PFUnA



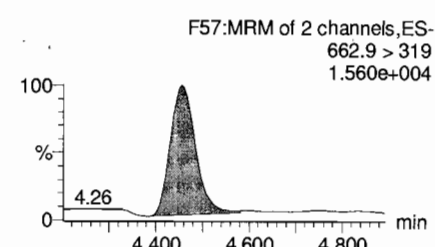
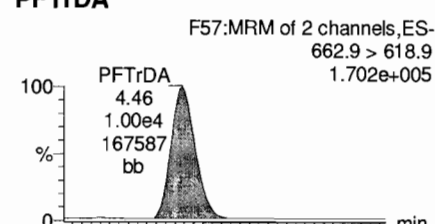
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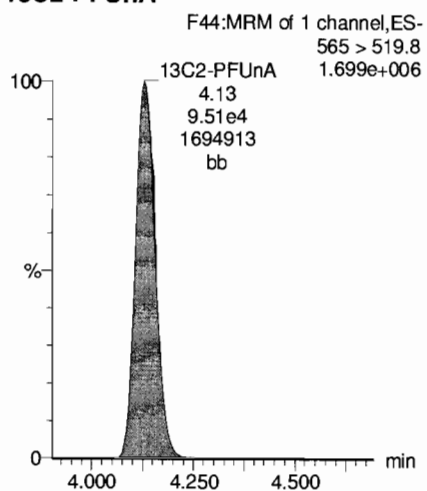
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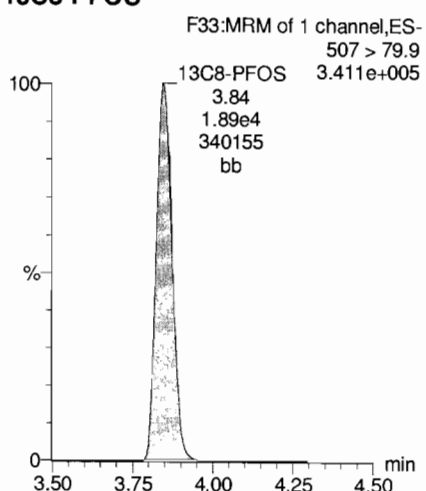
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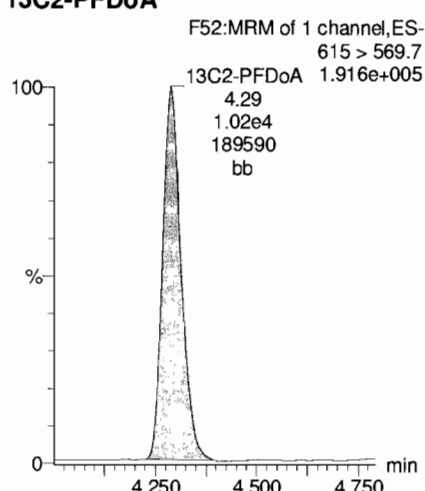
13C2-PFUnA



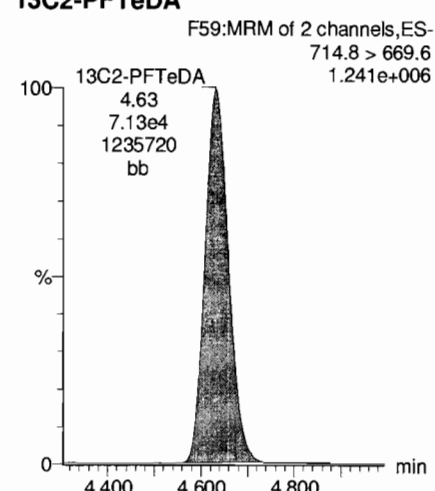
13C8-PFOS



13C2-PFDaA



13C2-PFTeDA



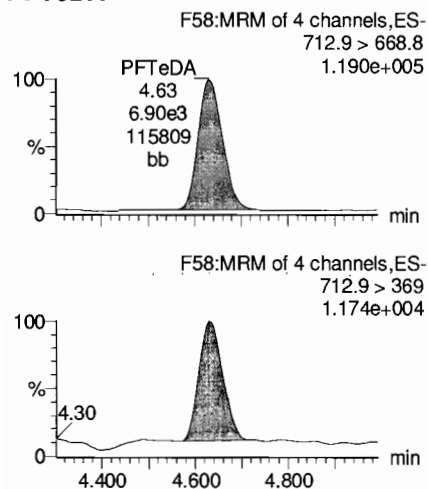
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Last Altered: Monday, July 31, 2017 13:00:17 Pacific Daylight Time

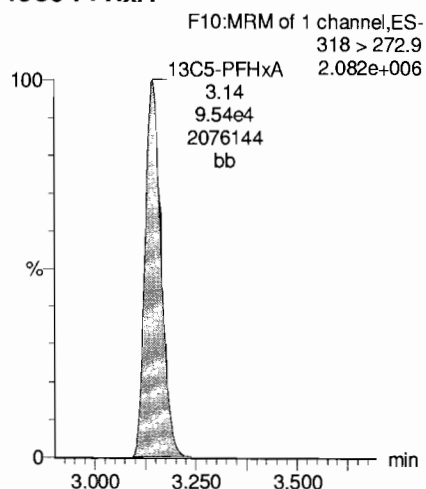
Printed: Tuesday, August 01, 2017 10:18:58 Pacific Daylight Time

Name: 170731M1_2, Date: 31-Jul-2017, Time: 12:09:51, ID: ST170731M1-1 PFC CS0 17G2826, Description: PFC CS0 17G2826

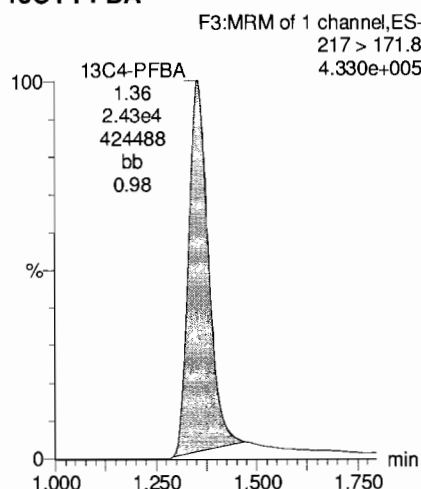
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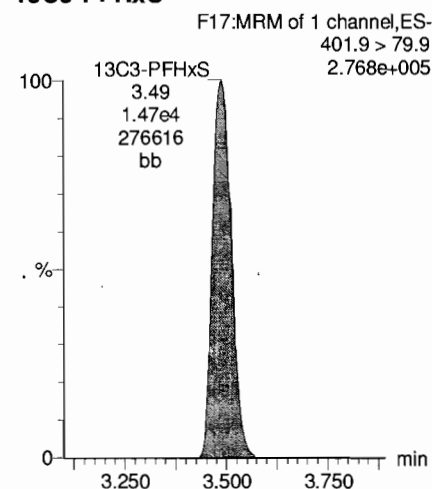
13C5-PFHxA



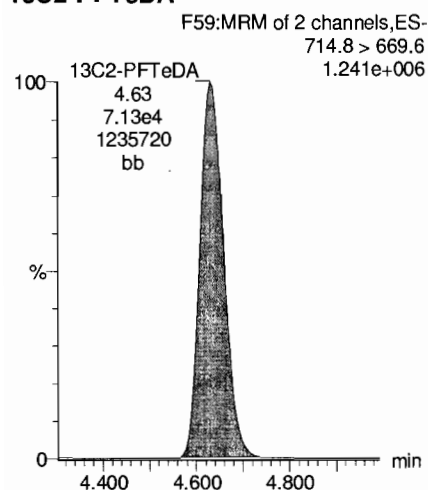
13C4-PFBA



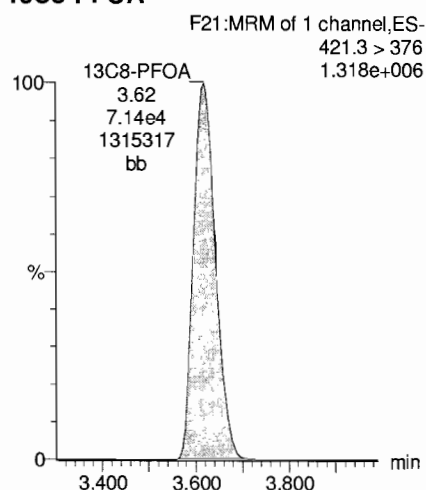
13C3-PFHxS



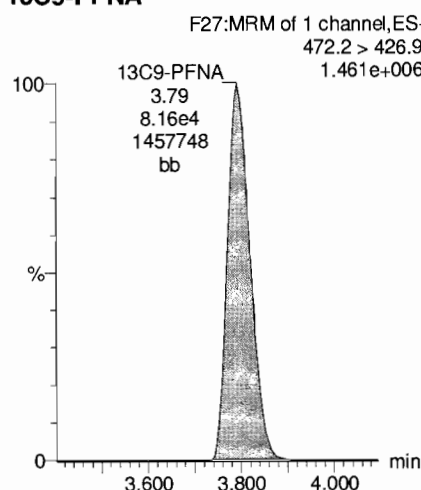
13C2-PFTeDA



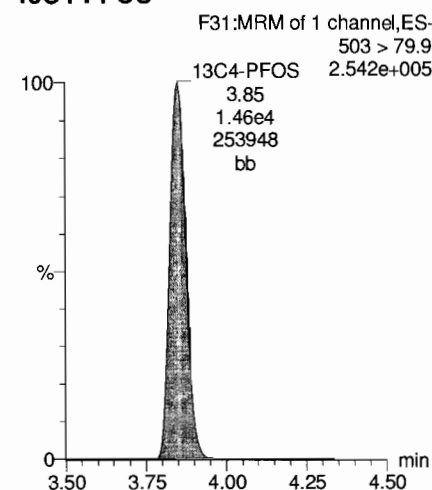
13C8-PFOA



13C9-PFNA



13C4-PFOS



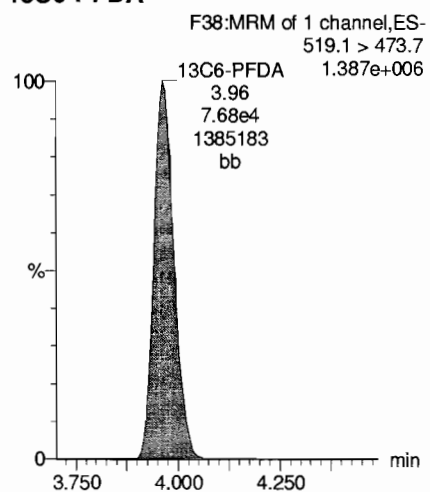
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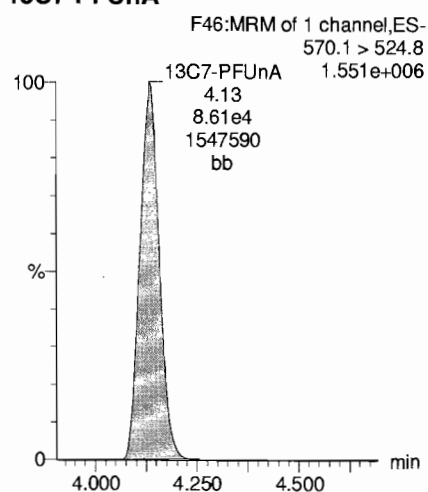
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13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170731M1\170731M1-20.qld

Last Altered: Tuesday, August 01, 2017 10:32:13 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:32:25 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_20, Date: 31-Jul-2017, Time: 15:42:57, ID: ST170731M1-2 PFC CS3 17G2729, Description: PFC CS3 17G2729

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred RT	RT	y Axis Resp	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	2.34e4	2.66e4	1.000		1.32	1.38	11.0	10.1	101.0
2	2 PFPeA	263.1 > 218.9	4.61e4	6.17e4	1.000		2.77	2.68	9.33	9.68	96.8
3	3 PFBS	299 > 79.7	1.16e4	8.14e3	1.000		2.96	2.91	17.9	9.61	96.1
4	4 PFHxA	313.2 > 268.9	8.97e4	3.18e4	1.000		3.19	3.15	14.1	10.0	100.0
5	5 PFHpA	363 > 318.9	7.03e4	7.19e4	1.000		3.45	3.42	12.2	10.3	103.1
6	6 PFHxS	398.9 > 79.6	8.81e3	7.27e3	1.000		3.56	3.49	15.2	9.07	90.7
7	7 PFOA	413 > 368.7	7.87e4	9.66e4	1.000		3.65	3.63	10.2	10.3	103.4
8	8 PFHpS	448.9 > 98.8	7.70e3	9.66e4	1.000		3.65	3.68	0.996	11.9	119.3
9	9 PFNA	462.9 > 418.8	7.53e4	8.44e4	1.000		3.83	3.81	11.1	10.3	103.5
10	10 PFOSA	498.1 > 77.8	8.77e3	1.04e4	1.000		3.84	3.81	10.5	9.53	95.3
11	11 PFOS	499 > 79.9	1.28e4	1.65e4	1.000		3.89	3.85	9.71	9.76	97.6
12	12 PFDA	513 > 468.8	7.50e4	7.45e4	1.000		4.01	3.97	12.6	10.3	102.9
13	13 N-MeFOSAA	570.1 > 419	2.33e4	1.94e4	1.000		4.03	4.01	195	9.87	98.7
14	14 N-EtFOSAA	584.2 > 419	1.87e4	1.99e4	1.000		4.10	4.07	152	9.93	99.3
15	15 PFUnA	562.9 > 518.9	5.59e4	1.04e5	1.000		4.11	4.14	6.69	8.97	89.7
16	16 PFDS	598.9 > 98.7	5.96e3	1.04e5	1.000		4.22	4.18	0.714	10.1	100.7
17	17 PFDoA	612.9 > 318.8	7.24e3	9.86e3	1.000		4.34	4.30	9.17	11.4	113.8
18	18 PFTrDA	662.9 > 618.9	8.31e4	9.86e3	1.000		4.50	4.47	105	10.7	106.8
19	19 PFTeDA	712.9 > 668.8	5.59e4	6.59e4	1.000		4.68	4.65	10.6	10.1	100.9
20	20 13C3-PFBA	216.1 > 171.8	2.66e4	2.66e4	1.000	1.068	1.32	1.38	12.5	11.7	93.4
21	21 13C3-PFPeA	266 > 221.8	6.17e4	9.37e4	1.000	0.271	2.77	2.67	3.29	12.1	97.0
22	22 13C3-PFBS	302 > 98.8	8.14e3	9.37e4	1.000	0.033	2.96	2.91	0.434	13.1	105.0
23	23 13C2-PFHxA	315 > 269.8	3.18e4	9.37e4	1.000	0.335	3.19	3.15	1.70	5.06	101.3
24	24 13C4-PFHpA	367.2 > 321.8	7.19e4	9.37e4	1.000	0.369	3.45	3.42	3.84	10.4	83.2
25	25 18O2-PFHxS	403 > 102.6	7.27e3	1.36e4	1.000	0.460	3.56	3.49	6.66	14.5	115.7
26	26 13C2-PFOA	414.9 > 369.7	9.66e4	7.52e4	1.000	1.293	3.65	3.62	16.1	12.4	99.4
27	27 13C5-PFNA	468.2 > 422.9	8.44e4	7.07e4	1.000	0.986	3.83	3.80	14.9	15.1	121.2
28	28 13C8-PFOSA	506.1 > 77.7	1.04e4	8.98e4	1.000	0.132	3.84	3.82	1.45	11.0	87.6
29	29 13C8-PFOS	507 > 79.9	1.65e4	1.25e4	1.000	1.184	3.89	3.86	16.5	13.9	111.1
30	30 13C2-PFDA	515.1 > 469.9	7.45e4	8.05e4	1.000	0.998	4.01	3.97	11.6	11.6	92.7
31	31 d3-N-MeFOSAA	573.3 > 419	1.94e4	8.98e4	1.000	0.018	4.03	4.01	2.71	153	94.2
32	32 d3-N-EtFOSAA	589.3 > 419	1.99e4	8.98e4	1.000	0.018	4.12	4.07	2.77	156	96.0

20-130

dm
8/1/17

50-150

Dataset: U:\Q4.PRO\results\170731M1\170731M1-20.qld

Last Altered: Tuesday, August 01, 2017 10:32:13 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:32:25 Pacific Daylight Time

Name: 170731M1_20, Date: 31-Jul-2017, Time: 15:42:57, ID: ST170731M1-2 PFC CS3 17G2729, Description: PFC CS3 17G2729

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
33	33 13C2-PFUnA	565 > 519.8	1.04e5	8.98e4	1.000	1.129	4.17	4.14	14.5	12.9	103.0
34	34 13C2-PFDoA	615 > 569.7	9.86e3	8.98e4	1.000	0.116	4.34	4.30	1.37	11.8	94.7
35	35 13C2-PFTeDA	714.8 > 669.6	6.59e4	8.98e4	1.000	0.762	4.68	4.65	9.17	12.0	96.3
36	36 13C4-PFBA	217 > 171.8	2.66e4	2.66e4	1.000	1.000	1.32	1.38	12.5	12.5	100.0
37	37 13C5-PFHxA	318 > 272.9	9.37e4	9.37e4	1.000	1.000	3.19	3.15	5.00	5.00	100.0
38	38 13C3-PFHxS	401.9 > 79.9	1.36e4	1.36e4	1.000	1.000	3.56	3.49	12.5	12.5	100.0
39	39 13C8-PFOA	421.3 > 376	7.52e4	7.52e4	1.000	1.000	3.65	3.62	12.5	12.5	100.0
40	40 13C9-PFNA	472.2 > 426.9	7.07e4	7.07e4	1.000	1.000	3.83	3.81	12.5	12.5	100.0
41	41 13C4-PFOS	503 > 79.9	1.25e4	1.25e4	1.000	1.000	3.89	3.85	12.5	12.5	100.0
42	42 13C6-PFDA	519.1 > 473.7	8.05e4	8.05e4	1.000	1.000	4.01	3.98	12.5	12.5	100.0
43	43 13C7-PFUnA	570.1 > 524.8	8.98e4	8.98e4	1.000	1.000	4.17	4.14	12.5	12.5	100.0

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Sample List Report

MassLynx MassLynx V4.1 SCN945 SCN960

Sample List: U:\Q4.PRO\SampleDB\170731M1.SPL
Last Modified: Monday, July 31, 2017 14:34:49 Pacific Daylight Time
Printed: Monday, July 31, 2017 15:57:00 Pacific Daylight Time

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Page Position (1, 1)

File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
1 170731M1_1	---	IPA	IPA	1.0000	1:48	Blank
2 170731M1_2	---	ST170731M1-1 PFC CS0 17G2826	PFC CS0 17G2826	1.0000	1:1	Analyte
3 170731M1_3	---	IPA	IPA	1.0000	1:48	Blank
4 170731M1_4	---	B7G0067-BS1 OPR 0.125	OPR	0.1250	1:3	Analyte
5 170731M1_5	---	IPA	IPA	1.0000	1:48	Blank
6 170731M1_6	---	B7G0067-BLK1 Method Blank 0.125	Method Blank	0.1250	1:4	Analyte
7 170731M1_7	---	1700855-01 TF5-EB-02 0.27357	TF5-EB-02	0.2736	1:5	Analyte
8 170731M1_8	---	1700855-02 TF5-MW-987 0.27423	TF5-MW-987	0.2742	1:6	Analyte
9 170731M1_9	---	1700855-03 TF5-MW-987D 0.27164	TF5-MW-987D	0.2716	1:7	Analyte
10 170731M1_10	---	B7G0067-MS1 Matrix Spike 0.27298	Matrix Spike	0.2730	1:8	Analyte
11 170731M1_11	---	B7G0067-MSD1 Matrix Spike Dup 0.2776	Matrix Spike Dup	0.2776	1:9	Analyte
12 170731M1_12	---	1700855-04 TF5-MW-987-D 0.26865	TF5-MW-987-D	0.2687	1:10	Analyte
13 170731M1_13	---	1700855-05 TF5-MW-991 0.2726	TF5-MW-991	0.2726	1:11	Analyte
14 170731M1_14	---	1700855-06 TF5-MW-991D 0.27278	TF5-MW-991D	0.2728	1:12	Analyte
15 170731M1_15	---	1700855-07 TF5-MW-993 0.26881	TF5-MW-993	0.2688	1:13	Analyte
16 170731M1_16	---	1700855-08 TF5-MW-993D 0.2612	TF5-MW-993D	0.2612	1:14	Analyte
17 170731M1_17	---	1700855-09 TF5-MW-994 0.25188	TF5-MW-994	0.2519	1:15	Analyte
18 170731M1_18	---	1700845-03@40X MW-27S-20170707 0.11824	MW-27S-20170707	0.1182	1:16	Analyte
19 170731M1_19	---	IPA	IPA	1.0000	1:48	Blank
20 170731M1_20	---	ST170731M1-2 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
21 170731M1_21	---	IPA	IPA	1.0000	1:48	Blank
22 170731M1_22	---	1700871-01 EB03-20170712 0.12146	EB03-20170712	0.1215	1:17	Analyte
23 170731M1_23	---	1700871-02 5-GW-05_DGMW41B-20170712 0.11547	5-GW-05_DGMW41B-20170712	0.1155	1:18	Analyte
24 170731M1_24	---	1700871-03 18-GW-18BGM03E-20170712 0.11765	18-GW-18BGM03E-20170712	0.1177	1:19	Analyte
25 170731M1_25	---	1700871-04 24-GW-24IN03-20170712 0.11741	24-GW-24IN03-20170712	0.1174	1:20	Analyte
26 170731M1_26	---	1700871-05 DUP02-20170712 0.11807	DUP02-20170712	0.1181	1:21	Analyte
27 170731M1_27	---	1700871-06 24-GW-24EX13A-20170712 0.11851	24-GW-24EX13A-20170712	0.1185	1:22	Analyte
28 170731M1_28	---	1700871-07 24-GW-24MW15D-20170712 0.1193	24-GW-24MW15D-20170712	0.1193	1:23	Analyte
29 170731M1_29	---	1700871-08 16-GW-16_MW28-20170712 0.11899	16-GW-16_MW28-20170712	0.1190	1:24	Analyte
30 170731M1_30	---	1700871-09 16-GW-16_MW19-20170712 0.11913	16-GW-16_MW19-20170712	0.1191	1:25	Analyte
31 170731M1_31	---	1700871-10 EB04-20170713 0.11646	EB04-20170713	0.1165	1:26	Analyte
32 170731M1_32	---	1700871-11 16-GW-16_MW04-20170713 0.12043	16-GW-16_MW04-20170713	0.1204	1:27	Analyte
33 170731M1_33	---	IPA	IPA	1.0000	1:48	Blank
34 170731M1_34	---	ST170731M1-3 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
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36 170731M1_36	---	1700856-12RE1@5X MW-31S-20170711 0.11732	MW-31S-20170711	0.1173	1:28	Analyte
37 170731M1_37	---	1700935-01 RES29-BLK_20170726 0.11182	RES29-BLK_20170726	0.1118	1:29	Analyte
38 170731M1_38	---	1700935-04 RES29-GAC2_20170726 0.12639	RES29-GAC2_20170726	0.1264	1:30	Analyte
39 170731M1_39	---	IPA	IPA	1.0000	1:48	Blank
40 170731M1_40	---	ST170731M1-4 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte

Sample List Report

MassLynx MassLynx V4.1 SCN945 SCN960

Sample List: U:\Q4.PRO\SampleDB\170731M1.SPL
Last Modified: Monday, July 31, 2017 14:34:49 Pacific Daylight Time
Printed: Monday, July 31, 2017 15:57:00 Pacific Daylight Time

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42 170731M1_42	--	B7G0122-BS1 OPR 0.25	OPR	0.2500	1:31	Analyte
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44 170731M1_44	--	B7G0122-BLK1 Method Blank 0.25	Method Blank	0.2500	1:32	Analyte
45 170731M1_45	--	1700891-06RE1 VEL FOAM 0.17113	VEL FOAM	0.1711	1:33	Analyte
46 170731M1_46	--	1700920-01 RCDM-MW-28S-20170719 0.1113	RCDM-MW-28S-20170719	0.1113	1:34	Analyte
47 170731M1_47	--	1700920-02 LF-MW-12S-20170719 0.11113	LF-MW-12S-20170719	0.1111	1:35	Analyte
48 170731M1_48	--	1700920-03 RCDM-MW-14S-20170720 0.11405	RCDM-MW-14S-20170720	0.1141	1:36	Analyte
49 170731M1_49	--	1700920-04 MH-DUP01-20170720 0.12177	MH-DUP01-20170720	0.1218	1:37	Analyte
50 170731M1_50	--	1700920-05 MH-A97-20170720 0.12086	MH-A97-20170720	0.1209	1:38	Analyte
51 170731M1_51	--	1700920-06 MH-H93-20170720 0.11357	MH-H93-20170720	0.1136	1:39	Analyte
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56 170731M1_56	--	1700920-08 MH-C94-20170720 0.11568	MH-C94-20170720	0.1157	1:41	Analyte
57 170731M1_57	--	1700920-09 RCDM-MW-13S-20170719 0.11866	RCDM-MW-13S-20170719	0.1187	1:42	Analyte
58 170731M1_58	--	1700920-10 LF-MW-14S-20170720 0.11481	LF-MW-14S-20170720	0.1148	1:43	Analyte
59 170731M1_59	--	1700920-11 LF-MW-11BR-20170720 0.11664	LF-MW-11BR-20170720	0.1166	1:44	Analyte
60 170731M1_60	--	1700920-12 LF-MW-13S-20170719 0.11667	LF-MW-13S-20170719	0.1167	1:45	Analyte
61 170731M1_61	--	1700920-13 RCDM-MW-11BR-20170720 0.11813	RCDM-MW-11BR-20170720	0.1181	1:46	Analyte
62 170731M1_62	--	1700920-14 RCDM-MW-12S-20170719 0.11619	RCDM-MW-12S-20170719	0.1162	1:47	Analyte
63 170731M1_63	--	1700920-15 LF-MW-28S-20170719 0.11572	LF-MW-28S-20170719	0.1157	2:1	Analyte
64 170731M1_64	--	1700920-16 DUP-07-20170719 0.12023	DUP-07-20170719	0.1202	2:2	Analyte
65 170731M1_65	--	1700920-17 FRB04-20170719 0.11007	FRB04-20170719	0.1101	2:3	Analyte
66 170731M1_66	--	IPA	IPA	1.0000	1:48	Blank
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68 170731M1_68	--	IPA	IPA	1.0000	1:48	Blank

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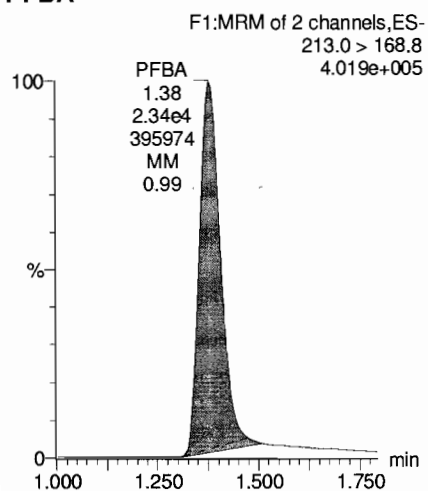
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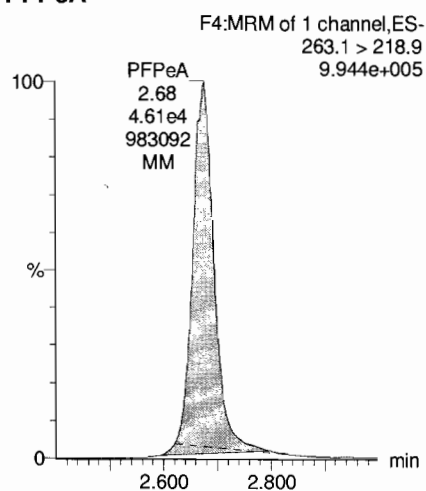
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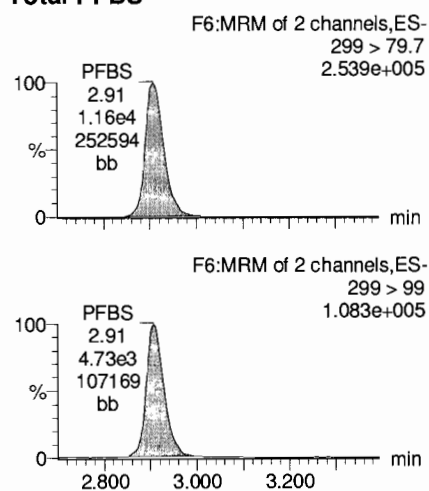
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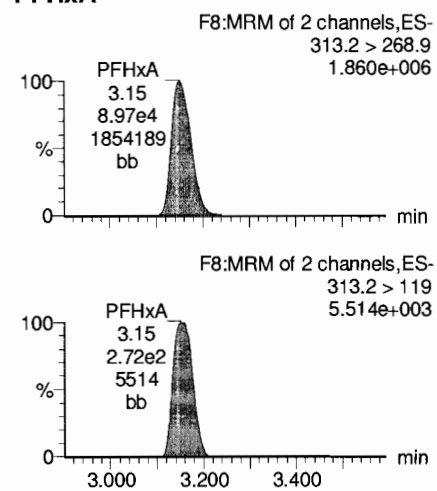
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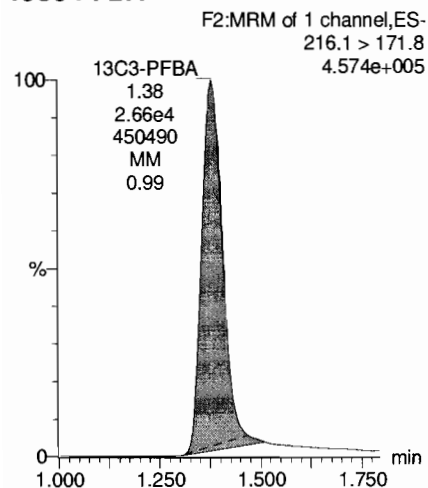
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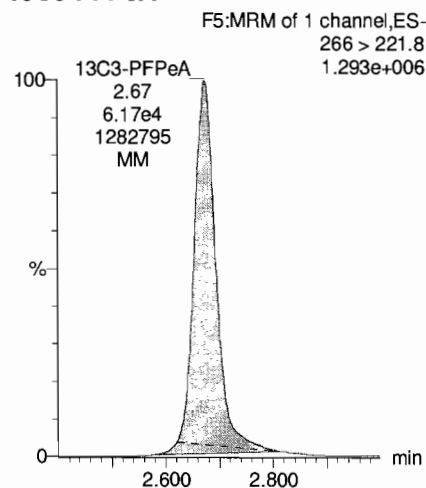
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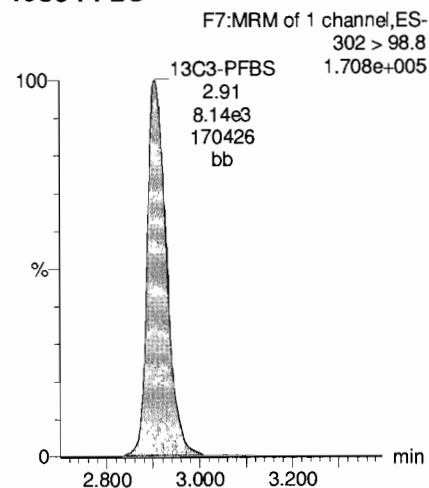
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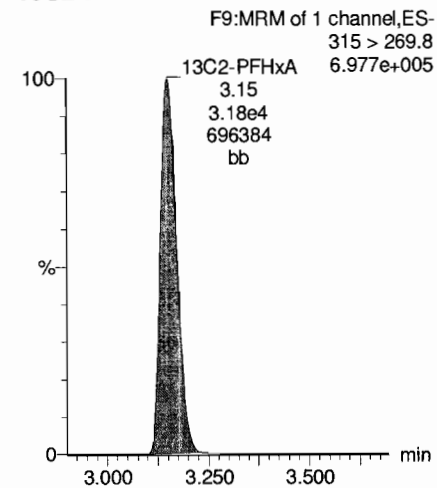
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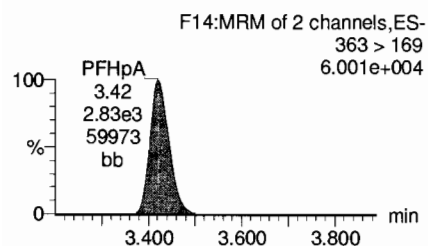
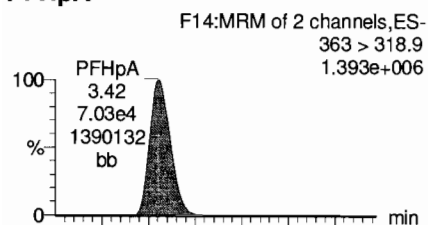


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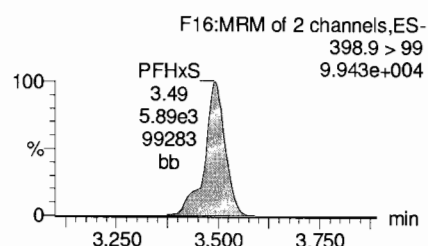
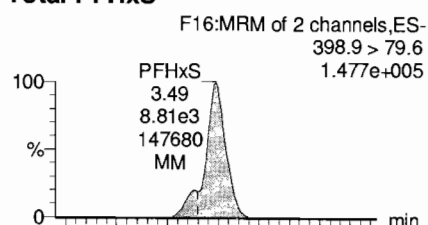
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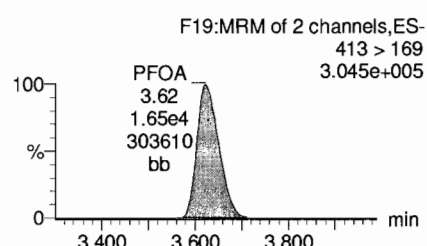
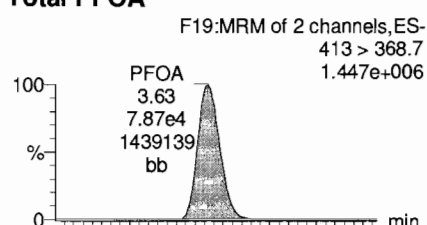
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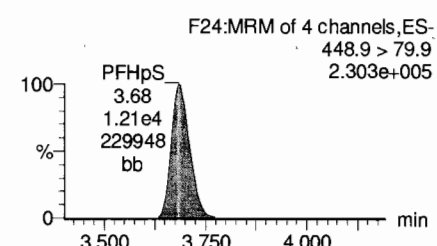
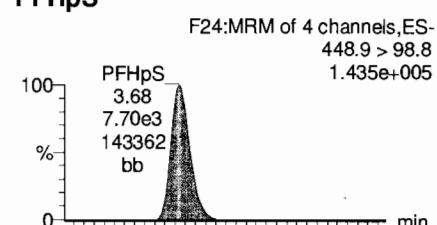
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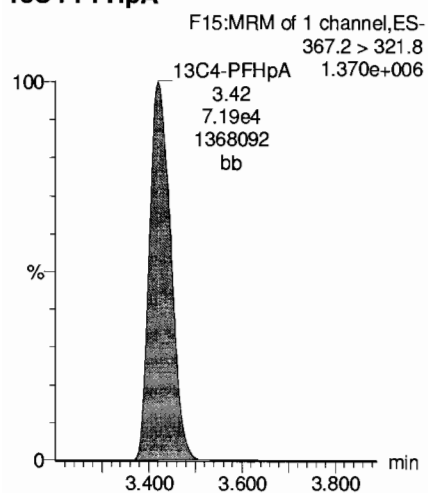
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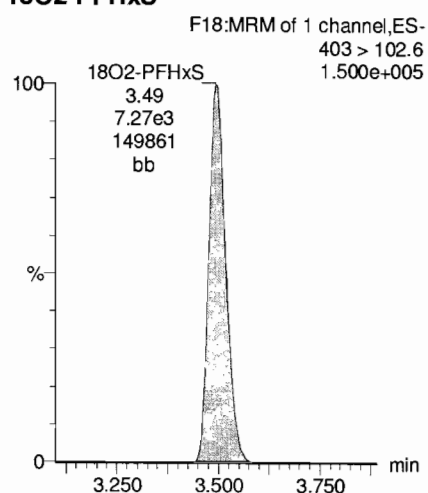
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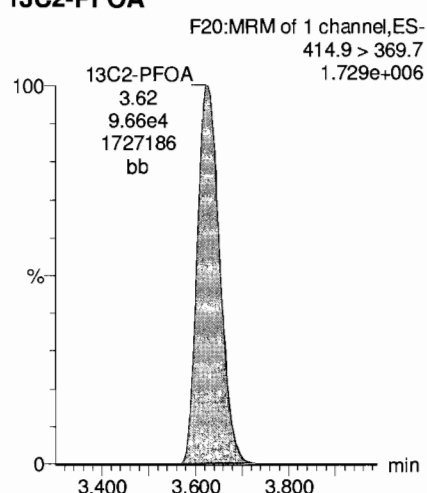
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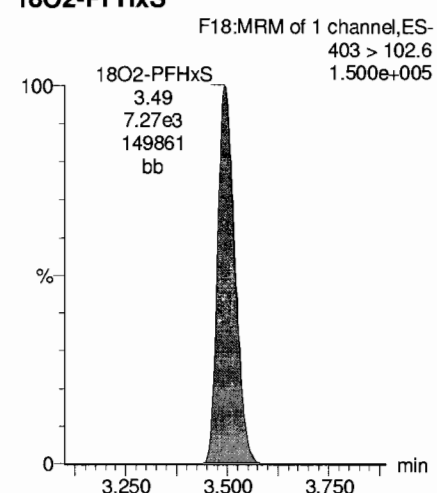
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13C2-PFOA



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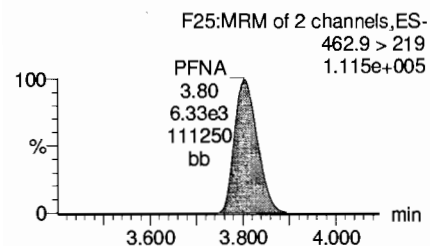
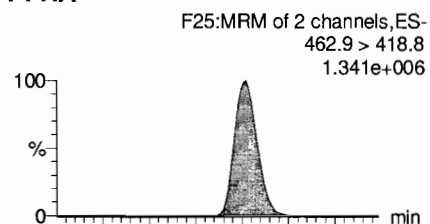
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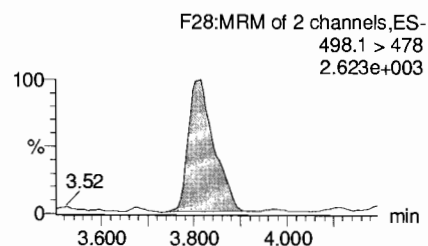
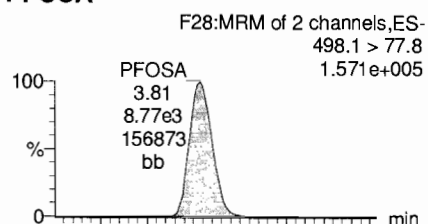
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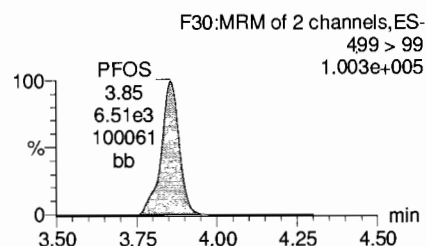
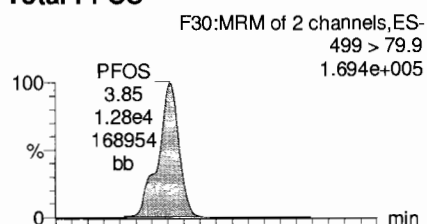
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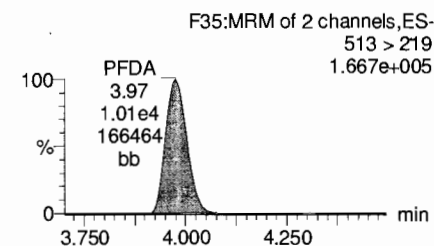
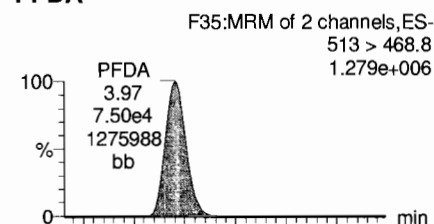
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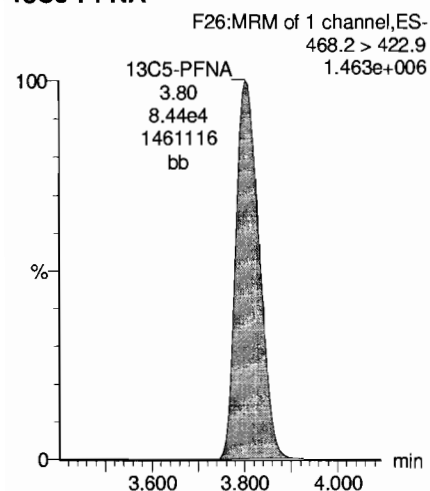
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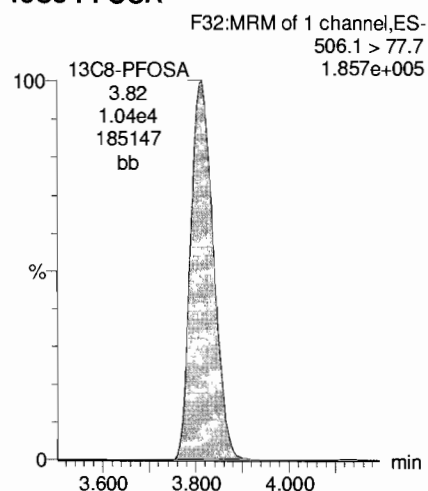
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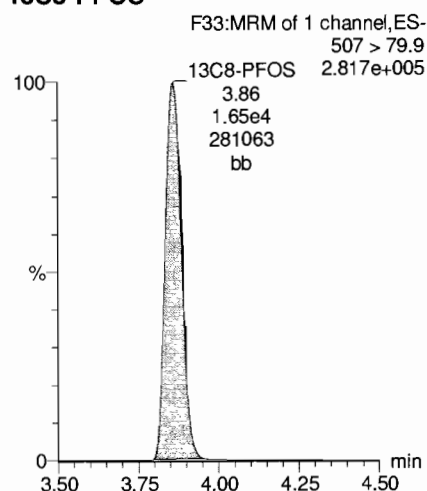
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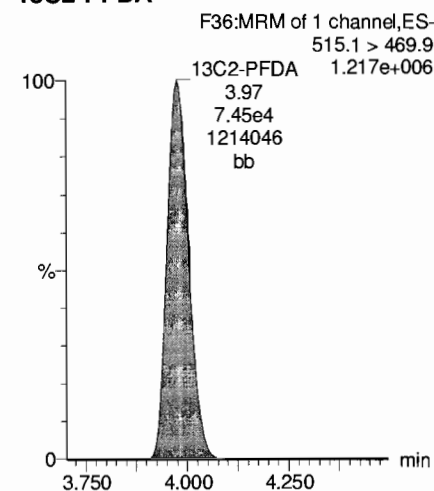
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13C8-PFOS



13C2-PFDA



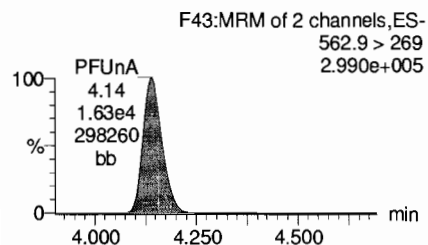
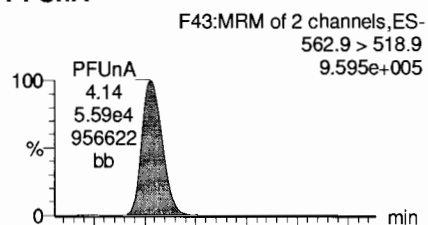
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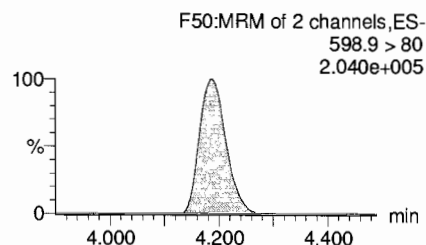
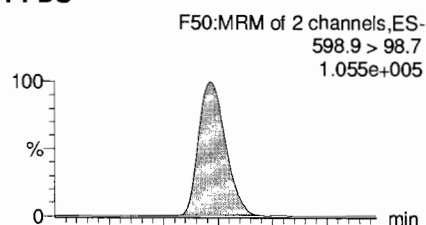
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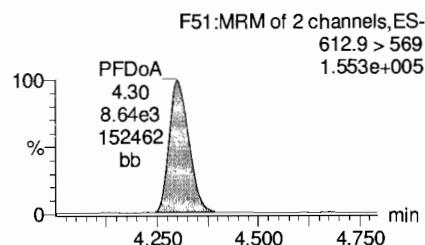
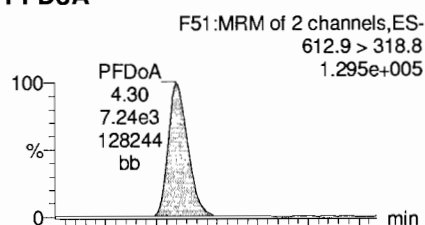
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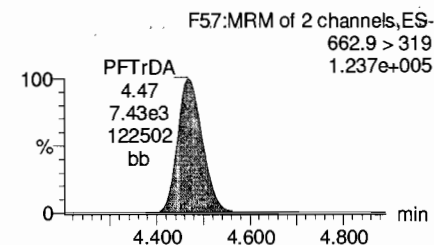
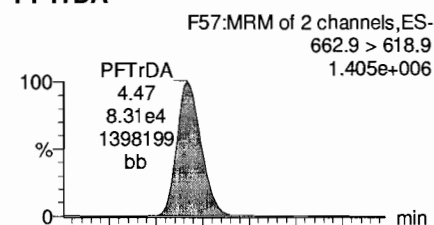
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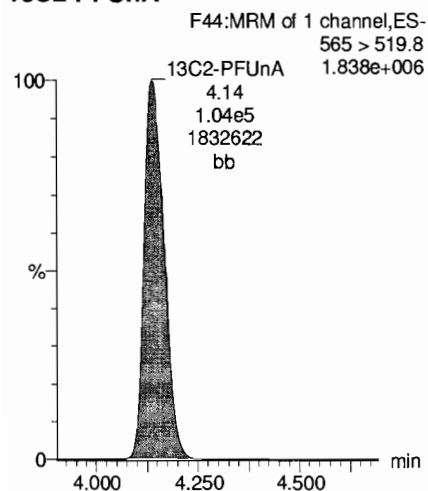
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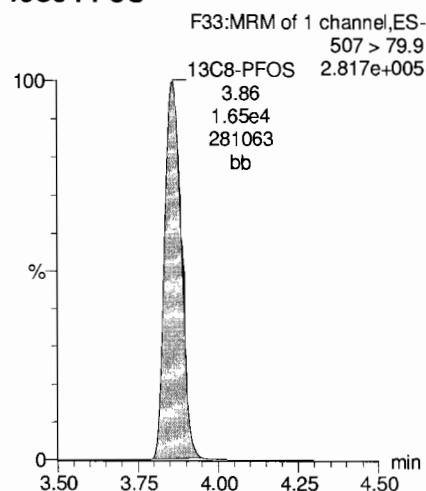
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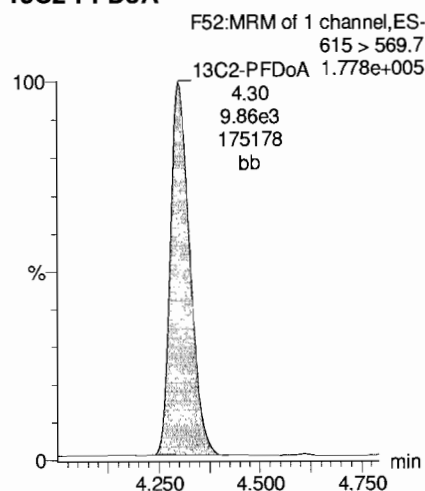
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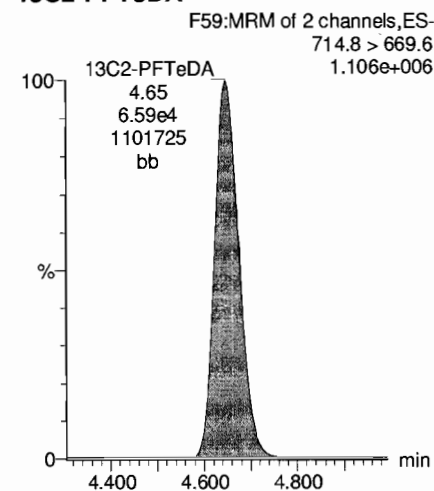
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13C2-PFDaA



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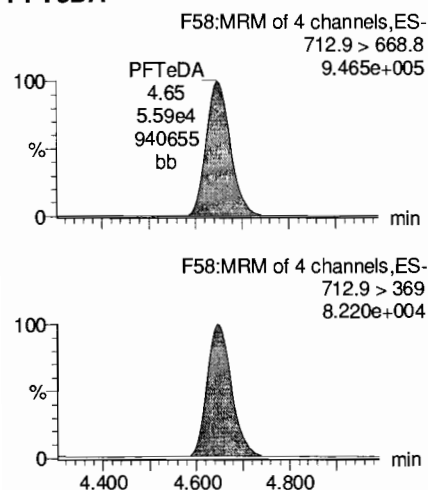


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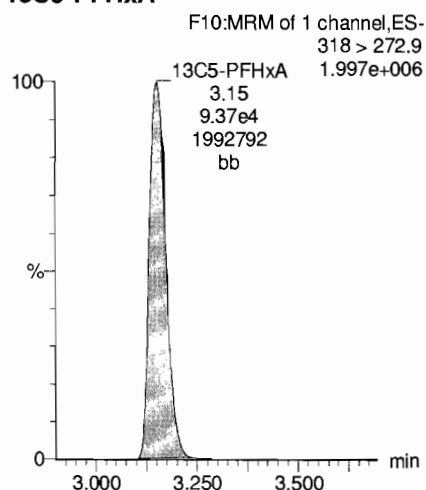
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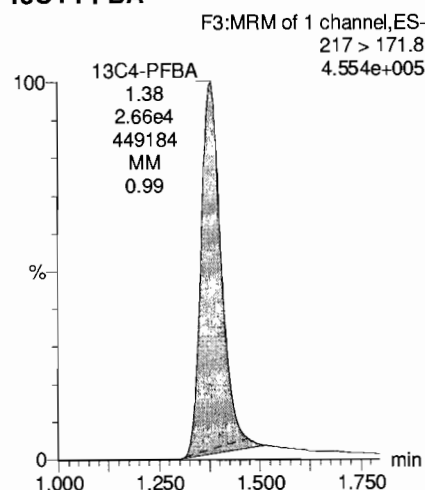
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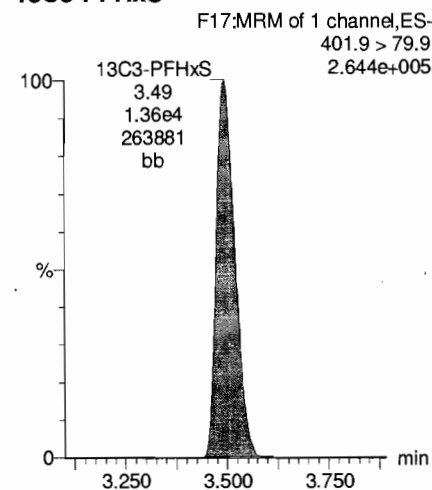
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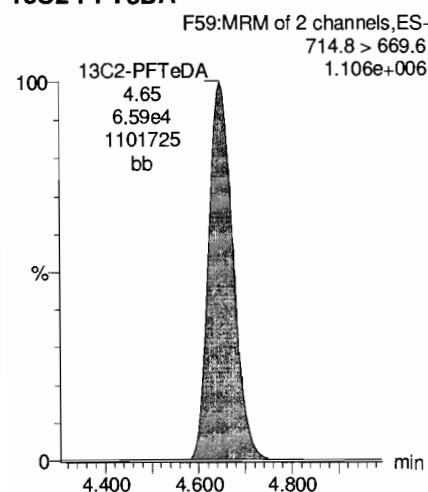
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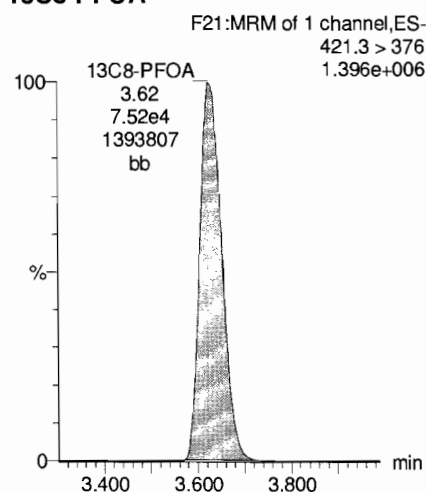
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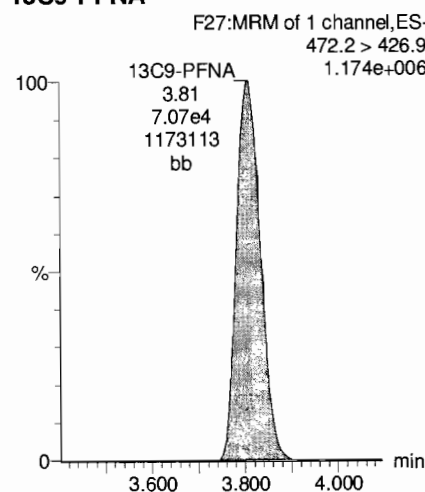
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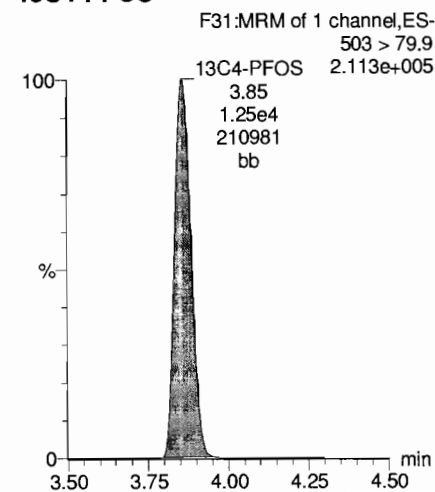
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13C4-PFOS



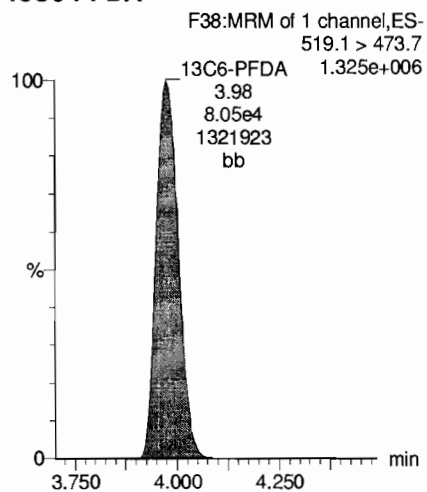
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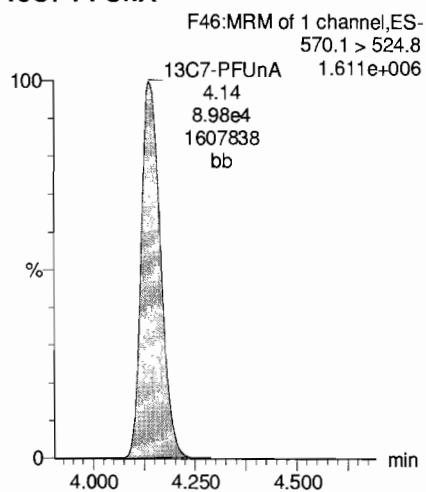
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13C7-PFUnA



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Last Altered: Tuesday, August 01, 2017 10:33:51 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:34:05 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170731M1_34, Date: 31-Jul-2017, Time: 18:13:24, ID: ST170731M1-3 PFC CS3 17G2729, Description: PFC CS3 17G2729

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred RT	RT	y Axis Resp	Conc	%Rec
1	1 PFBA	213.0 > 168.8	2.36e4	2.73e4	1.000		1.32	1.38	10.8	9.91	99.1
2	2 PFPeA	263.1 > 218.9	4.93e4	6.46e4	1.000		2.77	2.68	9.55	9.90	99.0
3	3 PFBS	299 > 79.7	1.21e4	8.63e3	1.000		2.96	2.91	17.5	9.41	94.1
4	4 PFHxA	313.2 > 268.9	9.41e4	3.34e4	1.000		3.19	3.16	14.1	10.0	100.0
5	5 PFHpA	363 > 318.9	7.42e4	7.62e4	1.000		3.45	3.43	12.2	10.3	102.7
6	6 PFHxS	398.9 > 79.6	8.99e3	7.05e3	1.000		3.56	3.50	15.9	9.53	95.3
7	7 PFOA	413 > 368.7	8.52e4	1.05e5	1.000		3.65	3.63	10.1	10.3	102.6
8	8 PFHpS	448.9 > 98.8	7.70e3	1.05e5	1.000		3.65	3.69	0.913	10.9	109.3
9	9 PFNA	462.9 > 418.8	7.97e4	8.90e4	1.000		3.83	3.81	11.2	10.4	104.0
10	10 PFOSA	498.1 > 77.8	8.89e3	1.09e4	1.000		3.84	3.82	10.2	9.22	92.2
11	11 PFOS	499 > 79.9	1.41e4	1.65e4	1.000		3.89	3.86	10.7	10.8	107.9
12	12 PFDA	513 > 468.8	9.32e4	9.81e4	1.000		4.01	3.98	11.9	9.70	97.0
13	13 N-MeFOSAA	570.1 > 419	2.49e4	2.05e4	1.000		4.03	4.01	198	10.0	100.3
14	14 N-EtFOSAA	584.2 > 419	1.89e4	1.92e4	1.000		4.10	4.08	160	10.5	104.6
15	15 PFUnA	562.9 > 518.9	6.08e4	1.08e5	1.000		4.11	4.15	7.07	9.49	94.9
16	16 PFDS	598.9 > 98.7	6.30e3	1.08e5	1.000		4.22	4.19	0.732	10.3	103.2
17	17 PFDoA	612.9 > 318.8	7.61e3	1.00e4	1.000		4.34	4.30	9.50	11.8	118.0
18	18 PFTeDA	662.9 > 618.9	8.49e4	1.00e4	1.000		4.50	4.47	106	10.8	107.6
19	19 PFTeDA	712.9 > 668.8	5.61e4	6.80e4	1.000		4.68	4.65	10.3	9.82	98.2
20	20 13C3-PFBA	216.1 > 171.8	2.73e4	2.73e4	1.000	1.068	1.32	1.38	12.5	11.7	93.7
21	21 13C3-PFPeA	266 > 221.8	6.46e4	9.98e4	1.000	0.271	2.77	2.68	3.24	11.9	95.4
22	22 13C3-PFBS	302 > 98.8	8.63e3	9.98e4	1.000	0.033	2.96	2.92	0.433	13.1	104.6
23	23 13C2-PFHxA	315 > 269.8	3.34e4	9.98e4	1.000	0.335	3.19	3.15	1.67	4.99	99.8
24	24 13C4-PFHpA	367.2 > 321.8	7.62e4	9.98e4	1.000	0.369	3.45	3.43	3.82	10.3	82.8
25	25 18O2-PFHxS	403 > 102.6	7.05e3	1.42e4	1.000	0.460	3.56	3.50	6.21	13.5	107.8
26	26 13C2-PFOA	414.9 > 369.7	1.05e5	7.70e4	1.000	1.293	3.65	3.63	17.1	13.2	105.9
27	27 13C5-PFNA	468.2 > 422.9	8.90e4	8.64e4	1.000	0.986	3.83	3.81	12.9	13.1	104.5
28	28 13C8-PFOSA	506.1 > 77.7	1.09e4	9.51e4	1.000	0.132	3.84	3.82	1.44	10.8	86.8
29	29 13C8-PFOS	507 > 79.9	1.65e4	1.46e4	1.000	1.184	3.89	3.86	14.1	11.9	95.3
30	30 13C2-PFDA	515.1 > 469.9	9.81e4	8.99e4	1.000	0.998	4.01	3.98	13.6	13.7	109.4
31	31 d3-N-MeFOSAA	573.3 > 419	2.05e4	9.51e4	1.000	0.018	4.03	4.01	2.69	152	93.6
32	32 d5-N-EtFOSAA	589.3 > 419	1.92e4	9.51e4	1.000	0.018	4.12	4.08	2.52	142	87.3

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Dataset: U:\Q4.PRO\results\170731M1\170731M1-34.qld

Last Altered: Tuesday, August 01, 2017 10:33:51 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:34:05 Pacific Daylight Time

Name: 170731M1_34, Date: 31-Jul-2017, Time: 18:13:24, ID: ST170731M1-3 PFC CS3 17G2729, Description: PFC CS3 17G2729

	# Name	Trace	Area	IS Area	Wt/Vol	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
33	33 13C2-PFUnA	565 > 519.8	1.08e5	9.51e4	1.000	1.129	4.17	4.14	14.1	12.5	100.2
34	34 13C2-PFDoA	615 > 569.7	1.00e4	9.51e4	1.000	0.116	4.34	4.30	1.32	11.3	90.8
35	35 13C2-PFTeDA	714.8 > 669.6	6.80e4	9.51e4	1.000	0.762	4.68	4.65	8.94	11.7	93.8
36	36 13C4-PFBA	217 > 171.8	2.73e4	2.73e4	1.000	1.000	1.32	1.38	12.5	12.5	100.0
37	37 13C5-PFHxA	318 > 272.9	9.98e4	9.98e4	1.000	1.000	3.19	3.16	5.00	5.00	100.0
38	38 13C3-PFHxS	401.9 > 79.9	1.42e4	1.42e4	1.000	1.000	3.56	3.50	12.5	12.5	100.0
39	39 13C8-PFOA	421.3 > 376	7.70e4	7.70e4	1.000	1.000	3.65	3.63	12.5	12.5	100.0
40	40 13C9-PFNA	472.2 > 426.9	8.64e4	8.64e4	1.000	1.000	3.83	3.81	12.5	12.5	100.0
41	41 13C4-PFOS	503 > 79.9	1.46e4	1.46e4	1.000	1.000	3.89	3.87	12.5	12.5	100.0
42	42 13C6-PFDA	519.1 > 473.7	8.99e4	8.99e4	1.000	1.000	4.01	3.98	12.5	12.5	100.0
43	43 13C7-PFUnA	570.1 > 524.8	9.51e4	9.51e4	1.000	1.000	4.17	4.15	12.5	12.5	100.0

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Sample List Report

MassLynx MassLynx V4.1 SCN945 SCN960

Sample List: U:\Q4.PRO\SampleDB\170731M1.SPL
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1 170731M1_1	---	IPA	IPA	1.0000	1:48	Blank
2 170731M1_2	---	ST170731M1-1 PFC CS0 17G2826	PFC CS0 17G2826	1.0000	1:1	Analyte
3 170731M1_3	---	IPA	IPA	1.0000	1:48	Blank
4 170731M1_4	---	B7G0067-BS1 OPR 0.125	OPR	0.1250	1:3	Analyte
5 170731M1_5	---	IPA	IPA	1.0000	1:48	Blank
6 170731M1_6	---	B7G0067-BLK1 Method Blank 0.125	Method Blank	0.1250	1:4	Analyte
7 170731M1_7	---	1700855-01 TF5-EB-02 0.27357	TF5-EB-02	0.2736	1:5	Analyte
8 170731M1_8	---	1700855-02 TF5-MW-987 0.27423	TF5-MW-987	0.2742	1:6	Analyte
9 170731M1_9	---	1700855-03 TF5-MW-987D 0.27164	TF5-MW-987D	0.2716	1:7	Analyte
10 170731M1_10	---	B7G0067-MS1 Matrix Spike 0.27298	Matrix Spike	0.2730	1:8	Analyte
11 170731M1_11	---	B7G0067-MSD1 Matrix Spike Dup 0.2776	Matrix Spike Dup	0.2776	1:9	Analyte
12 170731M1_12	---	1700855-04 TF5-MW-987-D 0.26865	TF5-MW-987-D	0.2687	1:10	Analyte
13 170731M1_13	---	1700855-05 TF5-MW-991 0.2726	TF5-MW-991	0.2726	1:11	Analyte
14 170731M1_14	---	1700855-06 TF5-MW-991D 0.27278	TF5-MW-991D	0.2728	1:12	Analyte
15 170731M1_15	---	1700855-07 TF5-MW-993 0.26881	TF5-MW-993	0.2688	1:13	Analyte
16 170731M1_16	---	1700855-08 TF5-MW-993D 0.2612	TF5-MW-993D	0.2612	1:14	Analyte
17 170731M1_17	---	1700855-09 TF5-MW-994 0.25188	TF5-MW-994	0.2519	1:15	Analyte
18 170731M1_18	---	1700845-03@40X MW-27S-20170707 0.11824	MW-27S-20170707	0.1182	1:16	Analyte
19 170731M1_19	---	IPA	IPA	1.0000	1:48	Blank
20 170731M1_20	---	ST170731M1-2 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
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22 170731M1_22	---	1700871-01 EB03-20170712 0.12146	EB03-20170712	0.1215	1:17	Analyte
23 170731M1_23	---	1700871-02 5-GW-05_DGMW41B-20170712 0.11547	5-GW-05_DGMW41B-20170712	0.1155	1:18	Analyte
24 170731M1_24	---	1700871-03 18-GW-18BGM03E-20170712 0.11765	18-GW-18BGM03E-20170712	0.1177	1:19	Analyte
25 170731M1_25	---	1700871-04 24-GW-24IN03-20170712 0.11741	24-GW-24IN03-20170712	0.1174	1:20	Analyte
26 170731M1_26	---	1700871-05 DUP02-20170712 0.11807	DUP02-20170712	0.1181	1:21	Analyte
27 170731M1_27	---	1700871-06 24-GW-24EX13A-20170712 0.11851	24-GW-24EX13A-20170712	0.1185	1:22	Analyte
28 170731M1_28	---	1700871-07 24-GW-24MW15D-20170712 0.1193	24-GW-24MW15D-20170712	0.1193	1:23	Analyte
29 170731M1_29	---	1700871-08 16-GW-16_MW28-20170712 0.11899	16-GW-16_MW28-20170712	0.1190	1:24	Analyte
30 170731M1_30	---	1700871-09 16-GW-16_MW19-20170712 0.11913	16-GW-16_MW19-20170712	0.1191	1:25	Analyte
31 170731M1_31	---	1700871-10 EB04-20170713 0.11646	EB04-20170713	0.1165	1:26	Analyte
32 170731M1_32	---	1700871-11 16-GW-16_MW04-20170713 0.12043	16-GW-16_MW04-20170713	0.1204	1:27	Analyte
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34 170731M1_34	---	ST170731M1-3 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
35 170731M1_35	---	IPA	IPA	1.0000	1:48	Blank
36 170731M1_36	---	1700856-12RE1@5X MW-31S-20170711 0.11732	MW-31S-20170711	0.1173	1:28	Analyte
37 170731M1_37	---	1700935-01 RES29-BLK_20170726 0.11182	RES29-BLK_20170726	0.1118	1:29	Analyte
38 170731M1_38	---	1700935-04 RES29-GAC2_20170726 0.12639	RES29-GAC2_20170726	0.1264	1:30	Analyte
39 170731M1_39	---	IPA	IPA	1.0000	1:48	Blank
40 170731M1_40	---	ST170731M1-4 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte

Sample List Report

MassLynx MassLynx V4.1 SCN945 SCN960

Sample List: U:\Q4.PRO\SampleDB\170731M1.SPL
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File Name	RS OK=X	Sample ID	File Text	User Divisor 1	Bottle	Sample Type
41 170731M1_41	---	IPA	IPA	1.0000	1:48	Blank
42 170731M1_42	---	B7G0122-BS1 OPR 0.25	OPR	0.2500	1:31	Analyte
43 170731M1_43	---	IPA	IPA	1.0000	1:48	Blank
44 170731M1_44	---	B7G0122-BLK1 Method Blank 0.25	Method Blank	0.2500	1:32	Analyte
45 170731M1_45	---	1700891-06RE1 VEL FOAM 0.17113	VEL FOAM	0.1711	1:33	Analyte
46 170731M1_46	---	1700920-01 RCDM-MW-28S-20170719 0.1113	RCDM-MW-28S-20170719	0.1113	1:34	Analyte
47 170731M1_47	---	1700920-02 LF-MW-12S-20170719 0.11113	LF-MW-12S-20170719	0.1111	1:35	Analyte
48 170731M1_48	---	1700920-03 RCDM-MW-14S-20170720 0.11405	RCDM-MW-14S-20170720	0.1141	1:36	Analyte
49 170731M1_49	---	1700920-04 MH-DUP01-20170720 0.12177	MH-DUP01-20170720	0.1218	1:37	Analyte
50 170731M1_50	---	1700920-05 MH-A97-20170720 0.12086	MH-A97-20170720	0.1209	1:38	Analyte
51 170731M1_51	---	1700920-06 MH-H93-20170720 0.11357	MH-H93-20170720	0.1136	1:39	Analyte
52 170731M1_52	---	IPA	IPA	1.0000	1:48	Blank
53 170731M1_53	---	ST170731M1-5 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
54 170731M1_54	---	IPA	IPA	1.0000	1:48	Blank
55 170731M1_55	---	1700920-07 RCDM-BLANK-20170720 0.11872	RCDM-BLANK-20170720	0.1187	1:40	Analyte
56 170731M1_56	---	1700920-08 MH-C94-20170720 0.11568	MH-C94-20170720	0.1157	1:41	Analyte
57 170731M1_57	---	1700920-09 RCDM-MW-13S-20170719 0.11866	RCDM-MW-13S-20170719	0.1187	1:42	Analyte
58 170731M1_58	---	1700920-10 LF-MW-14S-20170720 0.11481	LF-MW-14S-20170720	0.1148	1:43	Analyte
59 170731M1_59	---	1700920-11 LF-MW-11BR-20170720 0.11664	LF-MW-11BR-20170720	0.1166	1:44	Analyte
60 170731M1_60	---	1700920-12 LF-MW-13S-20170719 0.11667	LF-MW-13S-20170719	0.1167	1:45	Analyte
61 170731M1_61	---	1700920-13 RCDM-MW-11BR-20170720 0.11813	RCDM-MW-11BR-20170720	0.1181	1:46	Analyte
62 170731M1_62	---	1700920-14 RCDM-MW-12S-20170719 0.11619	RCDM-MW-12S-20170719	0.1162	1:47	Analyte
63 170731M1_63	---	1700920-15 LF-MW-28S-20170719 0.11572	LF-MW-28S-20170719	0.1157	2:1	Analyte
64 170731M1_64	---	1700920-16 DUP-07-20170719 0.12023	DUP-07-20170719	0.1202	2:2	Analyte
65 170731M1_65	---	1700920-17 FRB04-20170719 0.11007	FRB04-20170719	0.1101	2:3	Analyte
66 170731M1_66	---	IPA	IPA	1.0000	1:48	Blank
67 170731M1_67	---	ST170731M1-6 PFC CS3 17G2729	PFC CS3 17G2729	1.0000	1:2	Analyte
68 170731M1_68	---	IPA	IPA	1.0000	1:48	Blank

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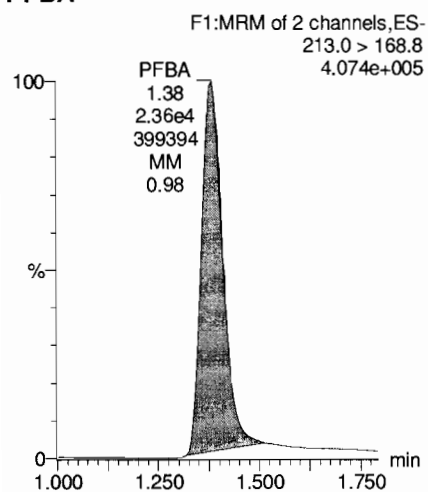
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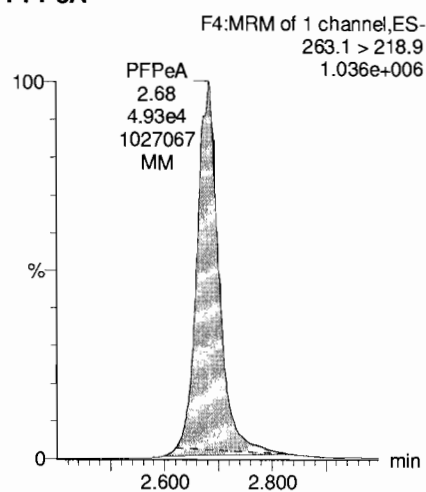
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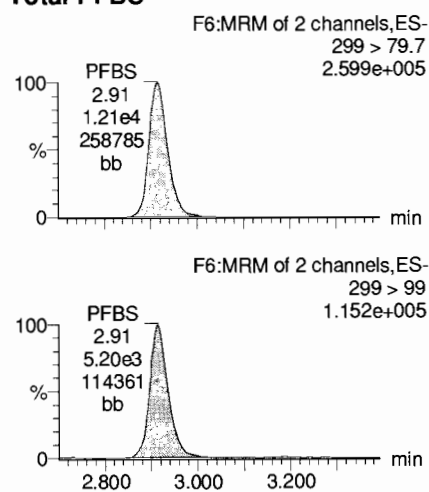
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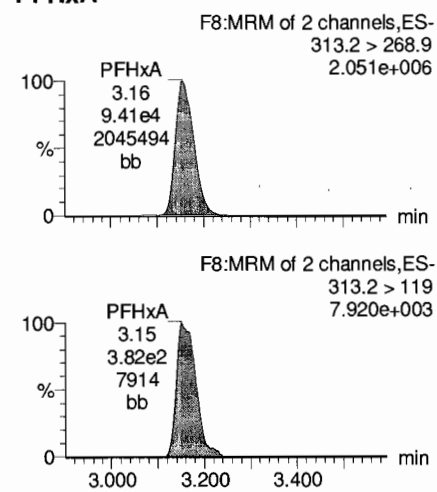
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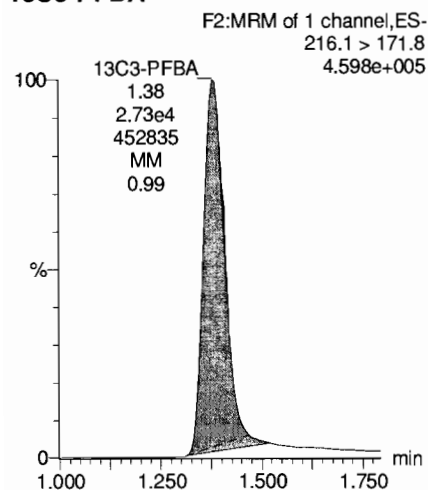
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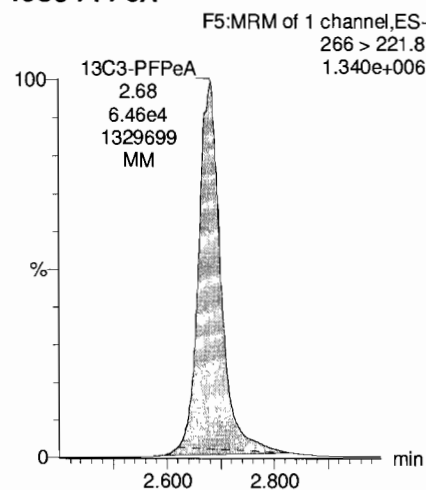
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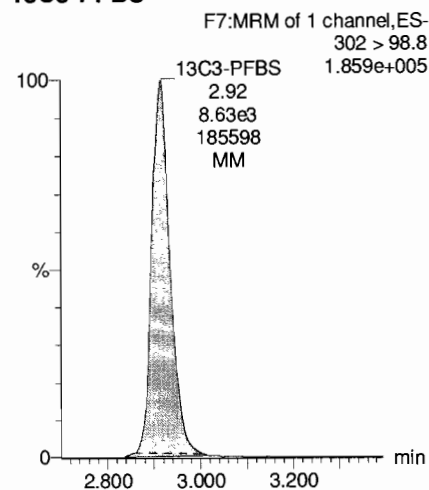
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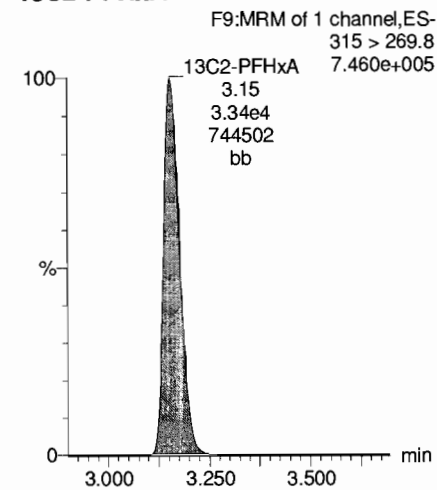
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13C3-PFBS



13C2-PFHxA



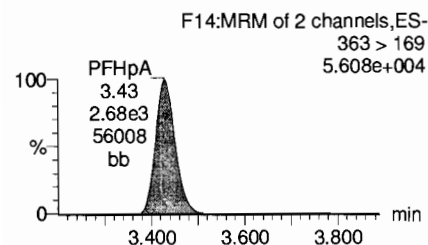
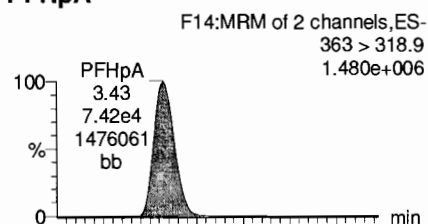
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Last Altered: Tuesday, August 01, 2017 10:22:05 Pacific Daylight Time

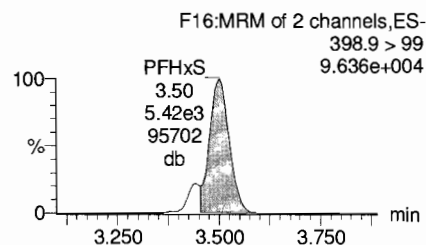
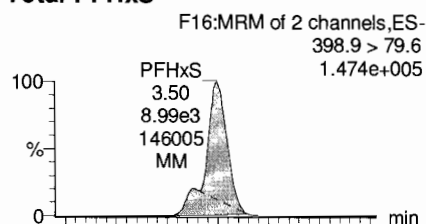
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Name: 170731M1_34, Date: 31-Jul-2017, Time: 18:13:24, ID: ST170731M1-3 PFC CS3 17G2729, Description: PFC CS3 17G2729

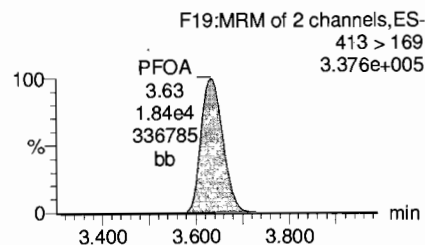
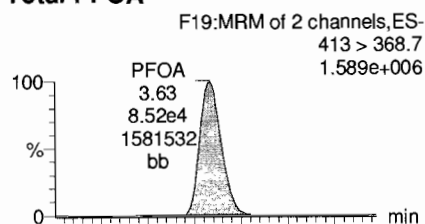
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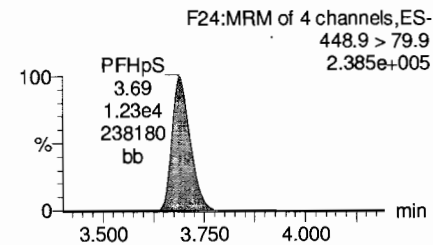
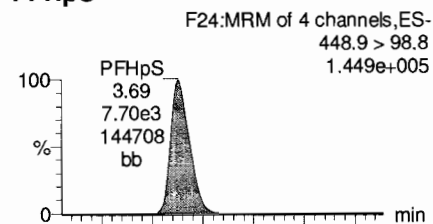
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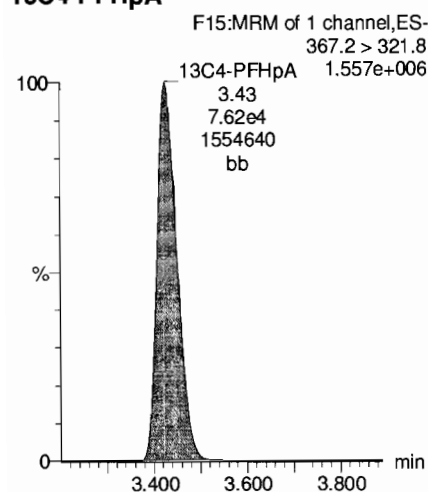
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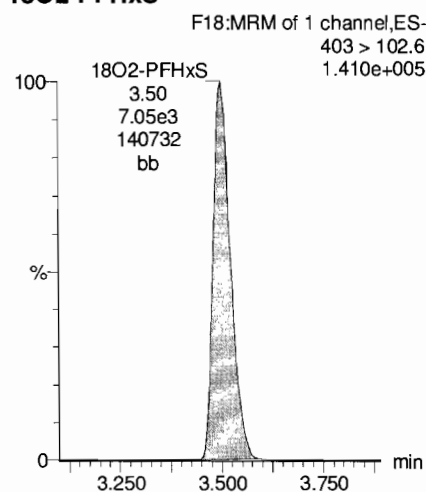
PFHpS



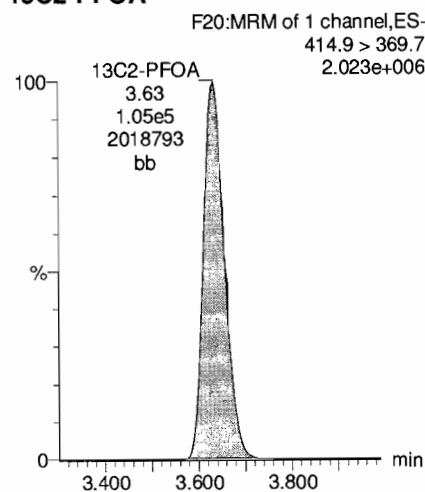
13C4-PFHpA



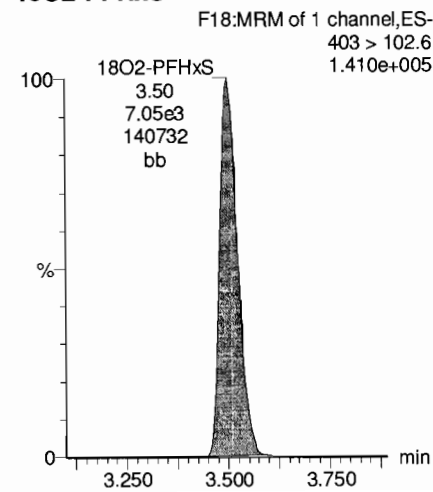
18O2-PFHxS



13C2-PFOA



18O2-PFHxS



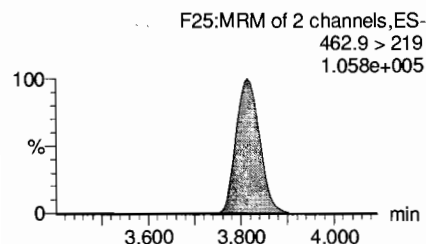
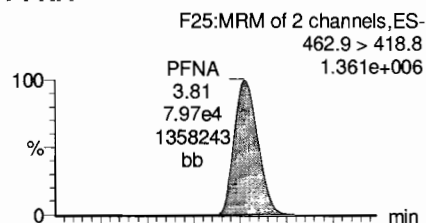
Dataset: U:\Q4.PRO\results\170731M1\170731M1-34.qld

Last Altered: Tuesday, August 01, 2017 10:22:05 Pacific Daylight Time

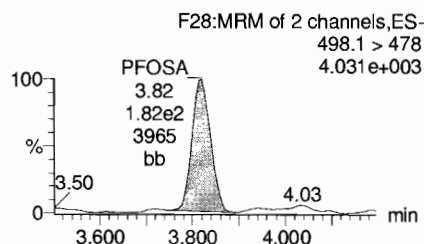
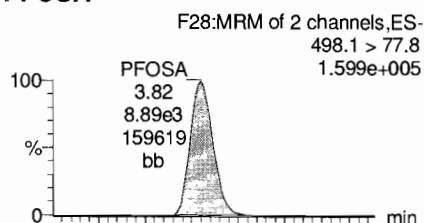
Printed: Tuesday, August 01, 2017 10:22:30 Pacific Daylight Time

Name: 170731M1_34, Date: 31-Jul-2017, Time: 18:13:24, ID: ST170731M1-3 PFC CS3 17G2729, Description: PFC CS3 17G2729

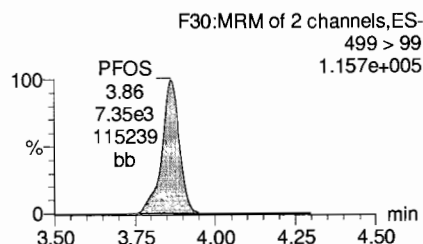
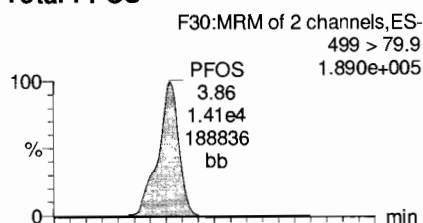
PFNA



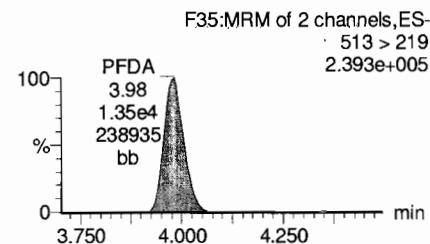
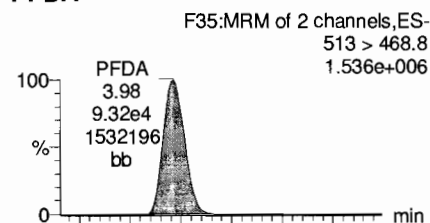
PFOSA



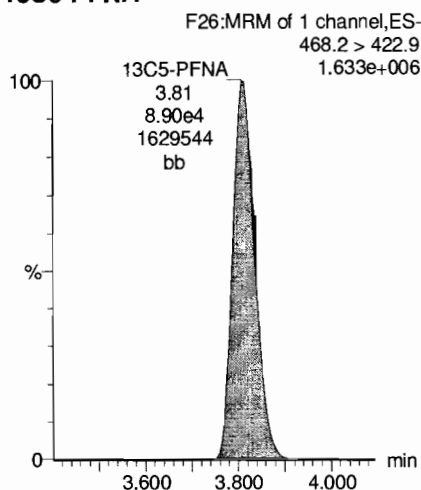
Total PFOS



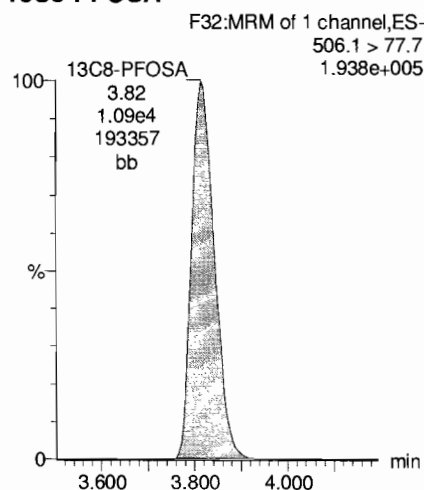
PFDA



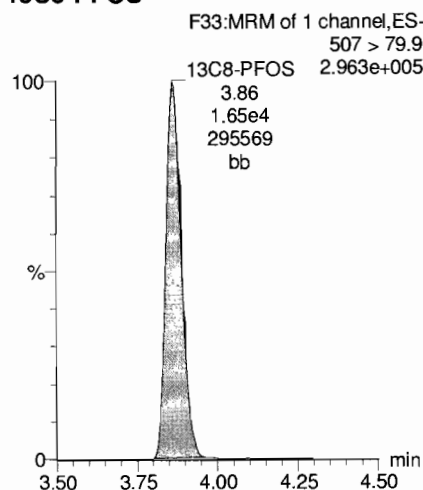
13C5-PFNA



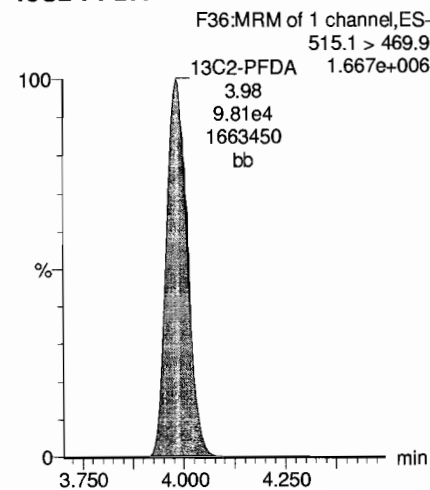
13C8-PFOSA



13C8-PFOS



13C2-PFDA

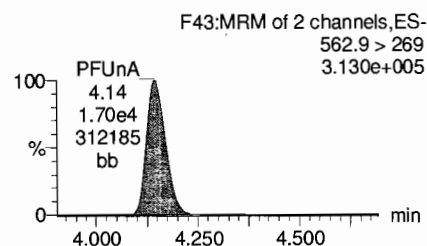
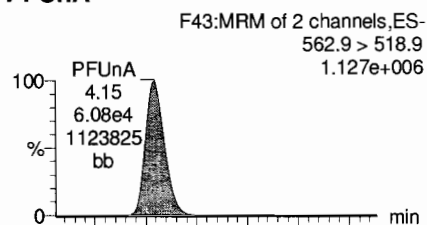


Dataset: U:\Q4.PRO\results\170731M1\170731M1-34.qld

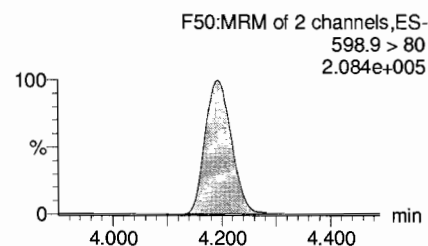
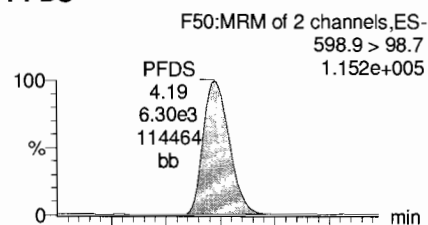
Last Altered: Tuesday, August 01, 2017 10:22:05 Pacific Daylight Time
Printed: Tuesday, August 01, 2017 10:22:30 Pacific Daylight Time

Name: 170731M1_34, Date: 31-Jul-2017, Time: 18:13:24, ID: ST170731M1-3 PFC CS3 17G2729, Description: PFC CS3 17G2729

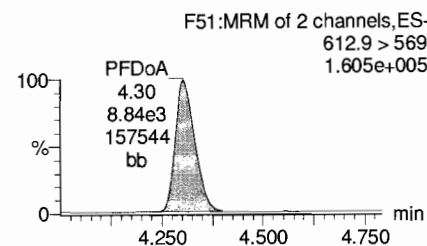
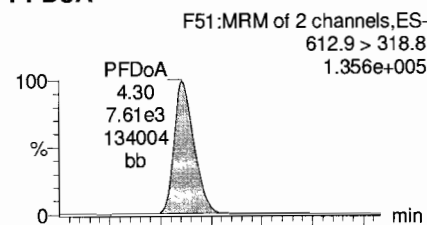
PFUnA



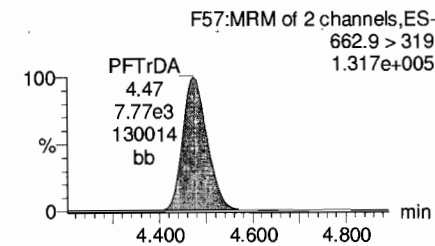
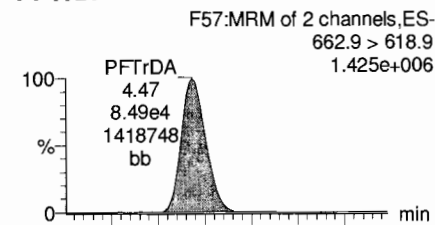
PFDS



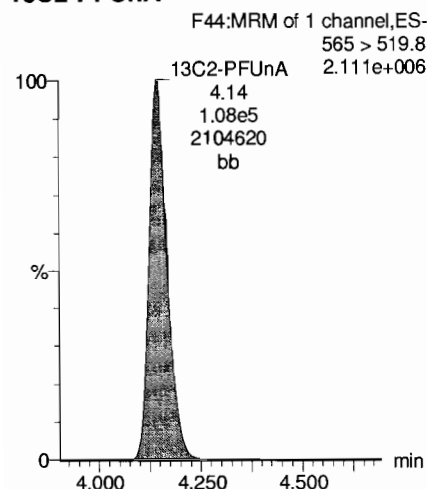
PFDaA



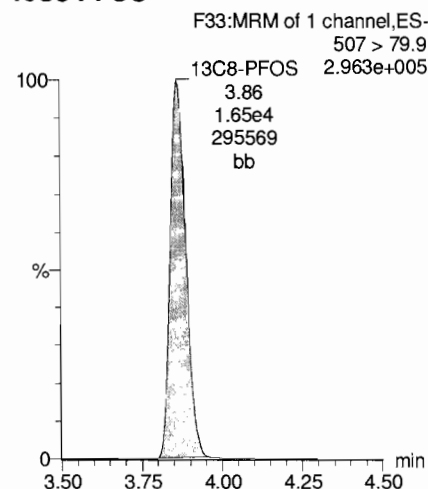
PFTTrDA



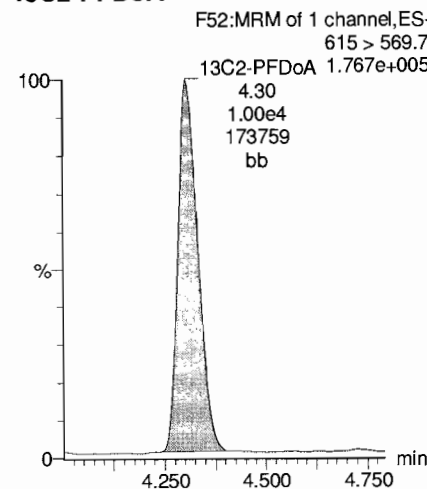
13C2-PFUnA



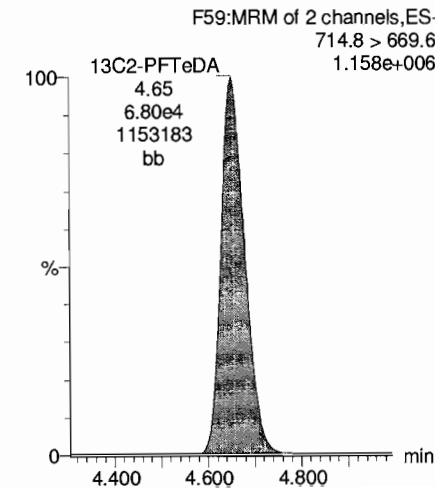
13C8-PFOS



13C2-PFDaA



13C2-PFTeDA



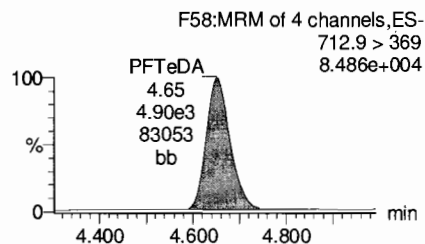
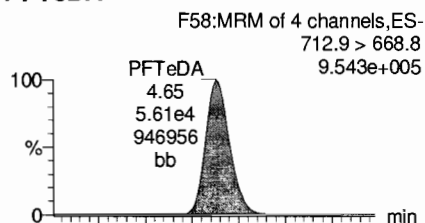
Dataset: U:\Q4.PRO\results\170731M1\170731M1-34.qld

Last Altered: Tuesday, August 01, 2017 10:22:05 Pacific Daylight Time

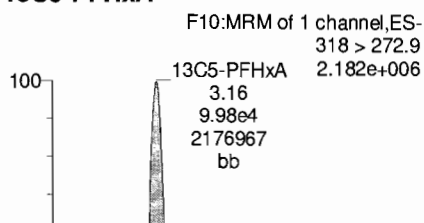
Printed: Tuesday, August 01, 2017 10:22:30 Pacific Daylight Time

Name: 170731M1_34, Date: 31-Jul-2017, Time: 18:13:24, ID: ST170731M1-3 PFC CS3 17G2729, Description: PFC CS3 17G2729

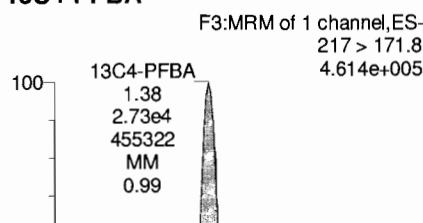
PFTeDA



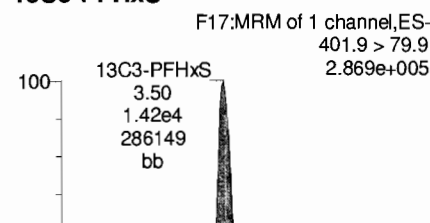
13C5-PFHxA



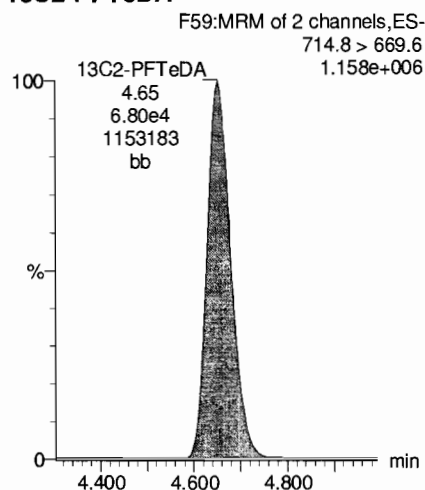
13C4-PFBA



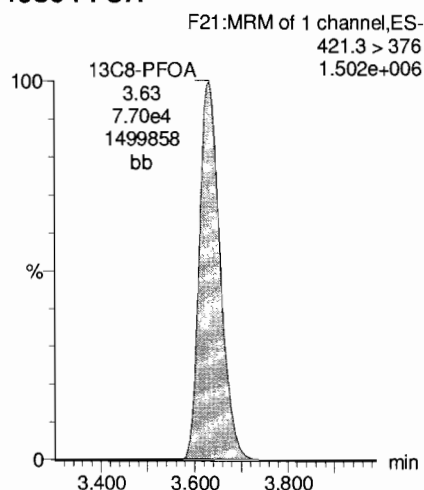
13C3-PFHxS



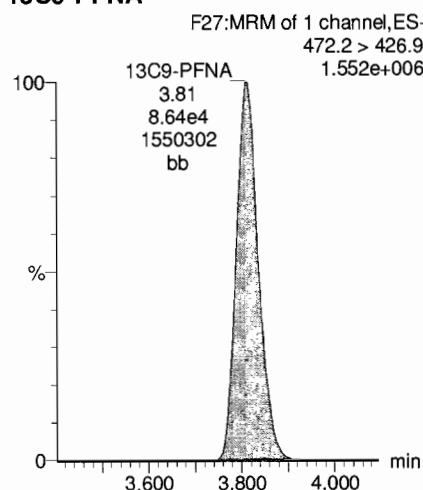
13C2-PFTeDA



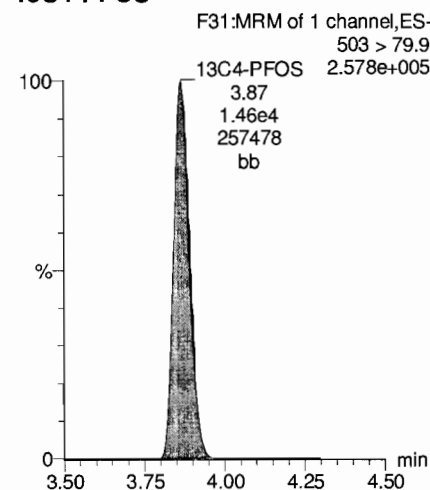
13C8-PFOA



13C9-PFNA



13C4-PFOS



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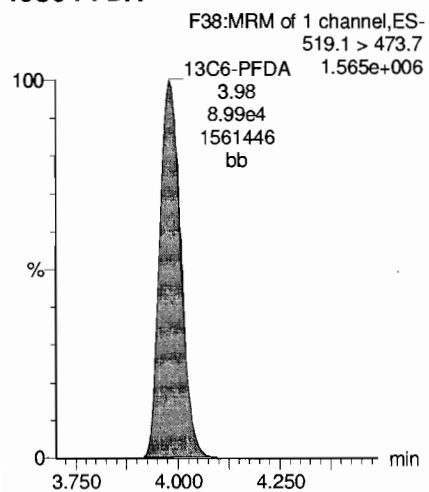
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Last Altered: Tuesday, August 01, 2017 10:22:05 Pacific Daylight Time

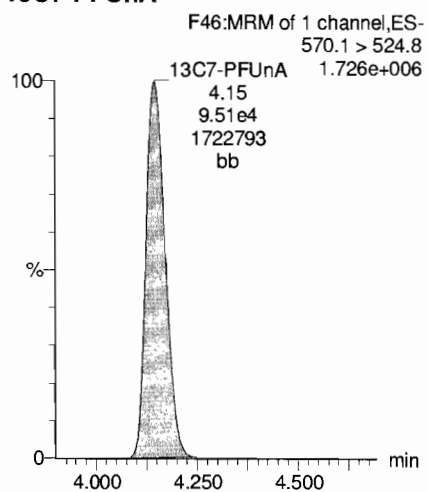
Printed: Tuesday, August 01, 2017 10:22:30 Pacific Daylight Time

Name: 170731M1_34, Date: 31-Jul-2017, Time: 18:13:24, ID: ST170731M1-3 PFC CS3 17G2729, Description: PFC CS3 17G2729

13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170803M2\170803M2-2.qld

Last Altered: Friday, August 04, 2017 08:44:22 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-27-17.mdb 28 Jul 2017 08:06:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Name: 170803M2_2, Date: 03-Aug-2017, Time: 16:12:52, ID: ST170803M2-1 PFC CS0 17H0307, Description: PFC CS0 17H0307

AC
8/4/17

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.39e3	1.33e4		1.32	1.37	1.30	1.14	113.9
2	2 PFPeA	263.1 > 218.9	2.15e3	2.56e4		2.77	2.66	1.05	1.07	106.8
3	3 PFBS	299 > 79.7	5.11e2	3.56e3		2.96	2.90	1.80	0.919	91.9
4	4 PFHxA	313.2 > 268.9	4.02e3	1.24e4		3.19	3.15	1.63	1.06	106.2
5	5 PFHpA	363 > 318.9	4.02e3	3.70e4		3.45	3.42	1.36	1.07	107.3
6	6 PFHxS	398.9 > 79.6	5.08e2	3.81e3		3.56	3.49	1.67	0.972	97.2
7	7 6:2 FTS	427.1 > 407	8.51e2	1.13e4		3.64	3.62	0.938	0.857	85.7
8	8 PFOA	413 > 368.7	5.63e3	5.43e4		3.65	3.62	1.30	1.21	120.6
9	9 PFHpS	448.9 > 98.8	4.16e2	5.43e4		3.65	3.69	0.0958	1.03	102.8
10	10 PFNA	462.9 > 418.8	5.39e3	5.31e4		3.83	3.80	1.27	1.10	110.2
11	11 PFOSA	498.1 > 77.8	6.06e2	6.02e3		3.84	3.81	1.26	1.20	119.8
12	12 PFOS	499 > 79.9	1.01e3	1.16e4		3.89	3.85	1.09	1.02	102.4
13	13 PFDA	513 > 468.8	5.47e3	5.41e4		4.01	3.97	1.26	0.924	92.4
14	14 8:2 FTS	527 > 506.9	1.02e3	7.24e3		4.00	3.97	1.77	1.20	120.4
15	15 N-MeFOSAA	570.1 > 419	1.53e3	1.36e4		4.03	4.01	18.3	0.977	97.7
16	16 N-EtFOSAA	584.2 > 419	1.25e3	1.36e4		4.10	4.07	14.9	0.984	98.4
17	17 PFUnA	562.9 > 518.9	4.39e3	6.31e4		4.17	4.14	0.870	1.03	103.2
18	18 PFDS	598.9 > 98.7	4.11e2	6.31e4		4.22	4.18	0.0814	1.04	104.4
19	19 PFDoA	612.9 > 318.8	5.68e2	5.99e3		4.34	4.29	1.18	1.25	125.1
20	20 N-MeFOSA	512.1 > 168.9	8.52e2	2.33e4		4.29	4.32	5.48	5.22	104.3
21	21 PFTTrDA	662.9 > 618.9	6.54e3	5.99e3		4.50	4.47	13.6	1.20	120.0
22	22 PFTeDA	712.9 > 668.8	4.25e3	4.32e4		4.68	4.64	1.23	1.04	104.1
23	23 N-EtFOSA	526.1 > 168.9	1.18e3	3.29e4		4.79	4.91	5.37	5.41	108.2
24	24 PFHxDA	812.8 > 768.9	6.56e3	2.11e4		5.06	5.01	1.55	1.04	104.0
25	25 PFODA	912.8 > 868.8	6.16e3	2.11e4		5.43	5.38	1.46	1.16	115.8
26	26 N-MeFOSE	616.1 > 58.9	1.57e3	3.83e4		5.42	5.45	6.13	5.56	111.3
27	27 N-EtFOSE	630.1 > 58.9	1.65e3	3.78e4		5.59	5.63	6.56	4.62	92.4
28	28 13C3-PFBA	216.1 > 171.8	1.33e4	1.27e4	1.006	1.32	1.37	13.1	13.0	104.2
29	29 13C3-PFPeA	266 > 221.8	2.56e4	3.47e4	0.275	2.77	2.66	3.68	13.4	107.0
30	30 13C3-PFBS	302 > 98.8	3.56e3	3.47e4	0.034	2.96	2.90	0.512	15.0	120.0
31	31 13C3-PFHxA	315 > 269.8	1.24e4	3.47e4	0.334	3.19	3.14	1.78	5.33	106.5

70-120

50-150



Dataset: U:\Q4.PRO\results\170803M2\170803M2-2.qld

Last Altered: Friday, August 04, 2017 08:44:22 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

Name: 170803M2_2, Date: 03-Aug-2017, Time: 16:12:52, ID: ST170803M2-1 PFC CS0 17H0307, Description: PFC CS0 17H0307

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32 13C4-PFHpa	367.2 > 321.8	3.70e4	3.47e4	0.414	3.45	3.42	5.32	12.8	102.7
33	33 18O2-PFHxS	403 > 102.6	3.81e3	7.71e3	0.475	3.56	3.49	6.18	13.0	104.0
34	34 13C2-6:2 FTS	429.1 > 408.9	1.13e4	4.28e4	0.214	3.64	3.61	3.31	15.5	123.9
35	35 13C2-PFOA	414.9 > 369.7	5.43e4	4.28e4	1.298	3.65	3.62	15.9	12.2	97.7
36	36 13C5-PFNA	468.2 > 422.9	5.31e4	5.02e4	1.094	3.83	3.80	13.2	12.1	96.6
37	37 13C8-PFOSA	506.1 > 77.7	6.02e3	4.62e4	0.124	3.84	3.81	1.63	13.1	104.8
38	38 13C8-PFOS	507 > 79.9	1.16e4	8.92e3	1.153	3.89	3.85	16.2	14.1	112.6
39	39 13C2-PFDA	515.1 > 469.9	5.41e4	5.24e4	1.059	4.01	3.97	12.9	12.2	97.5
40	40 13C2-8:2 FTS	529.1 > 508.7	7.24e3	5.24e4	0.129	4.00	3.97	1.73	13.4	107.4
41	41 d3-N-MeFOSAA	573.3 > 419	1.36e4	4.62e4	0.019	4.03	4.01	3.68	191	117.2
42	42 d5-N-EtFOSAA	589.3 > 419	1.36e4	4.62e4	0.019	4.12	4.07	3.69	195	119.8
43	43 13C2-PFUnA	565 > 519.8	6.31e4	4.62e4	1.172	4.17	4.14	17.1	14.6	116.6
44	44 13C2-PFDoA	615 > 569.7	5.99e3	4.62e4	0.118	4.34	4.29	1.62	13.7	109.5
45	45 d3-N-MeFOSA	515.2 > 168.9	2.33e4	4.62e4	0.040	4.29	4.36	6.30	156	103.9
46	46 13C2-PFTeDA	714.8 > 669.6	4.32e4	4.62e4	0.801	4.68	4.64	11.7	14.6	116.6
47	47 d5-N-ETFOSA	531.1 > 168.9	3.29e4	4.62e4	0.055	4.85	4.96	8.90	162	107.7
48	48 13C2-PFHxDA	815 > 769.7	2.11e4	4.62e4	0.991	5.06	5.01	5.72	5.77	115.4
49	49 d7-N-MeFOSE	623.1 > 58.9	3.83e4	4.62e4	0.065	5.42	5.44	10.4	159	106.1
50	50 d9-N-EtFOSE	639.2 > 58.8	3.78e4	4.62e4	0.065	5.59	5.62	10.2	158	105.2
51	51 13C4-PFBA	217 > 171.8	1.27e4	1.27e4	1.000	1.32	1.37	12.5	12.5	100.0
52	52 13C5-PFHxA	318 > 272.9	3.47e4	3.47e4	1.000	3.19	3.14	5.00	5.00	100.0
53	53 13C3-PFHxS	401.9 > 79.9	7.71e3	7.71e3	1.000	3.56	3.49	12.5	12.5	100.0
54	54 13C8-PFOA	421.3 > 376	4.28e4	4.28e4	1.000	3.65	3.62	12.5	12.5	100.0
55	55 13C9-PFNA	472.2 > 426.9	5.02e4	5.02e4	1.000	3.83	3.80	12.5	12.5	100.0
56	56 13C4-PFOS	503 > 79.9	8.92e3	8.92e3	1.000	3.89	3.85	12.5	12.5	100.0
57	57 13C6-PFDA	519.1 > 473.7	5.24e4	5.24e4	1.000	4.01	3.98	12.5	12.5	100.0
58	58 13C7-PFUnA	570.1 > 524.8	4.62e4	4.62e4	1.000	4.17	4.15	12.5	12.5	100.0

50-150
↓

Dataset: U:\Q4.PRO\results\170803M2\170803M2-2.qld

Last Altered: Friday, August 04, 2017 08:44:22 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-27-17.mdb 28 Jul 2017 08:06:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Name: 170803M2_2, Date: 03-Aug-2017, Time: 16:12:52, ID: ST170803M2-1 PFC CS0 17H0307, Description: PFC CS0 17H0307

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.90	511.319	3555.671	1.798	bb	0.919

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.49	507.744	3810.517	1.666	bb	0.972

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8 PFOA	413 > 368.7	3.62	5630.639	54311.566	1.296	bb	1.21

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12 PFOS	499 > 79.9	3.85	1008.226	11580.122	1.088	bb	1.02

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15 N-MeFOSAA	570.1 > 419	4.01	1531.593	13601.123	18.299	bb	0.977

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	16 N-EtFOSAA	584.2 > 419	4.07	1248.161	13627.513	14.884	bb	0.984

Dataset: Untitled

Last Altered: Friday, August 04, 2017 09:33:42 Pacific Daylight Time

Printed: Friday, August 04, 2017 10:28:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-27-17.mdb 28 Jul 2017 08:06:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170803M2_1	IPA	03-Aug-17	16:02:09
2	170803M2_2	ST170803M2-1 PFC CS0 17H0307	03-Aug-17	16:12:52
3	170803M2_3	IPA	03-Aug-17	16:23:40
4	170803M2_4	1700925-02 SB01-170724 0.12178	03-Aug-17	16:34:26
5	170803M2_5	1700925-06 EB01-170724 0.1185	03-Aug-17	16:45:12
6	170803M2_6	1700929-01 MATP01001 0.11834	03-Aug-17	16:55:51
7	170803M2_7	1700938-01 NORP08102 0.11844	03-Aug-17	17:06:36
8	170803M2_8	1700938-02 NORP08103 0.12014	03-Aug-17	17:17:30
9	170803M2_9	1700936-01 BULK TANK #1 0.005	03-Aug-17	17:28:17
10	170803M2_10	1700936-02 BULK TANK #2 0.005	03-Aug-17	17:38:55
11	170803M2_11	1700871-11@5X 16-GW-16_MW04-2017071...	03-Aug-17	17:49:34
12	170803M2_12	IPA	03-Aug-17	18:00:12
13	170803M2_13	1700925-01@15X I001BC43S-170724 0.12112	03-Aug-17	18:10:51
14	170803M2_14	IPA	03-Aug-17	18:21:33
15	170803M2_15	1700925-03@15X I001BC50S-170724 0.12135	03-Aug-17	18:32:17
16	170803M2_16	IPA	03-Aug-17	18:42:55
17	170803M2_17	B7G0122-BS1 OPR 0.25	03-Aug-17	18:53:33
18	170803M2_18	IPA	03-Aug-17	19:04:20
19	170803M2_19	B7G0122-BLK1 Method Blank 0.25	03-Aug-17	19:14:58
20	170803M2_20	1700891-06RE1 VEL FOAM 0.17113	03-Aug-17	19:25:37
21	170803M2_21	IPA	03-Aug-17	19:36:23
22	170803M2_22	ST170803M2-2 PFC CS3 17H0202	03-Aug-17	19:47:10
23	170803M2_23	IPA	03-Aug-17	19:57:57
24	170803M2_24	B7H0007-BS1 OPR 0.25	03-Aug-17	20:08:35
25	170803M2_25	B7H0010-BS1 OPR 5	03-Aug-17	20:19:13
26	170803M2_26	B7H0011-BS1 OPR 5	03-Aug-17	20:29:52
27	170803M2_27	B7H0012-BS1 OPR 0.25	03-Aug-17	20:40:30
28	170803M2_28	B7H0007-BSD1 LCS Dup 0.25	03-Aug-17	20:51:17
29	170803M2_29	IPA	03-Aug-17	21:01:55
30	170803M2_30	B7H0007-BLK1 Method Blank 0.25	03-Aug-17	21:12:41
31	170803M2_31	B7H0010-BLK1 Method Blank 5	03-Aug-17	21:23:20

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Last Altered: Friday, August 04, 2017 09:33:42 Pacific Daylight Time

Printed: Friday, August 04, 2017 10:28:42 Pacific Daylight Time

Compound name: PFBA

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32	170803M2_32	B7H0011-BLK1 Method Blank 5	03-Aug-17	21:33:58
33	170803M2_33	B7H0012-BLK1 Method Blank 0.25	03-Aug-17	21:44:37
34	170803M2_34	1700862-01 WS 252 0.00025	03-Aug-17	21:55:15
35	170803M2_35	1700952-01 CP-IDW-072517 0.24347	03-Aug-17	22:06:01
36	170803M2_36	1700953-01 TF4-IDW-072517-01 0.26372	03-Aug-17	22:16:55
37	170803M2_37	1700953-02 TF4-IDW-072517-02 0.26543	03-Aug-17	22:27:44
38	170803M2_38	1700954-01 TF5-IDW-072517 0.25837	03-Aug-17	22:38:30
39	170803M2_39	1700818-01 QPFD-1 5	03-Aug-17	22:49:08
40	170803M2_40	1700818-02 QPFD-2 5	03-Aug-17	22:59:55
41	170803M2_41	1700818-03 QPFD-3 5	03-Aug-17	23:10:33
42	170803M2_42	1700818-04 QPFD-4 5	03-Aug-17	23:21:11
43	170803M2_43	1700818-05 QPFD-5 5	03-Aug-17	23:31:50
44	170803M2_44	IPA	03-Aug-17	23:42:28
45	170803M2_45	ST170803M2-3 PFC CS3 17H0202	03-Aug-17	23:53:06
46	170803M2_46	IPA	04-Aug-17	00:03:53
47	170803M2_47	1700818-06 QPFD-6 5	04-Aug-17	00:14:34
48	170803M2_48	1700818-07 QPFD-7 5	04-Aug-17	00:25:19
49	170803M2_49	1700818-08 QPFD-8 5	04-Aug-17	00:35:57
50	170803M2_50	1700818-09 QPFD-9 5	04-Aug-17	00:46:44
51	170803M2_51	1700818-10 QPFD-10 5	04-Aug-17	00:57:39
52	170803M2_52	1700818-11 QPFD-11 5	04-Aug-17	01:08:26
53	170803M2_53	1700818-12 QPFD-12 5	04-Aug-17	01:19:04
54	170803M2_54	1700818-13 QPFD-13 5	04-Aug-17	01:29:51
55	170803M2_55	1700903-01 1958 5	04-Aug-17	01:40:29
56	170803M2_56	B7H0010-DUP1 Duplicate 5	04-Aug-17	01:51:08
57	170803M2_57	1700819-01 QPFD-14 5	04-Aug-17	02:01:46
58	170803M2_58	IPA	04-Aug-17	02:12:27
59	170803M2_59	ST170803M2-4 PFC CS0 17H0307	04-Aug-17	02:23:13
60	170803M2_60	IPA	04-Aug-17	02:33:58
61	170803M2_61	1700819-02 QPFD-15 5	04-Aug-17	02:44:36
62	170803M2_62	1700819-03 QPFD-16 5	04-Aug-17	02:55:15
63	170803M2_63	1700819-04 QPFD-17 5	04-Aug-17	03:05:53
64	170803M2_64	1700819-05 QPFD-18 5	04-Aug-17	03:16:32
65	170803M2_65	1700819-06 QPFD-19 5	04-Aug-17	03:27:10

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Last Altered: Friday, August 04, 2017 09:33:42 Pacific Daylight Time

Printed: Friday, August 04, 2017 10:28:42 Pacific Daylight Time

Compound name: PFBA

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67	170803M2_67	1700819-08 QPFD-21 5	04-Aug-17	03:48:35
68	170803M2_68	1700819-09 QPFD-22 5	04-Aug-17	03:59:13
69	170803M2_69	1700819-10 QPFD-23 5	04-Aug-17	04:10:00
70	170803M2_70	1700819-11 QPFD-24 5	04-Aug-17	04:20:46
71	170803M2_71	IPA	04-Aug-17	04:31:33
72	170803M2_72	ST170803M2-5 PFC CS3 17H0202	04-Aug-17	04:42:11
73	170803M2_73	IPA	04-Aug-17	04:52:57
74	170803M2_74	1700819-12 QPFD-25 5	04-Aug-17	05:03:36
75	170803M2_75	1700819-13 QPFD-26 5	04-Aug-17	05:14:14
76	170803M2_76	1700963-01 SW VEL L2 0.25308	04-Aug-17	05:24:54
77	170803M2_77	1700963-02 SW VEL L3 0.21924	04-Aug-17	05:35:42
78	170803M2_78	1700963-03 SW VEL L4 0.25896	04-Aug-17	05:46:38
79	170803M2_79	1700963-04 VEL FOAM L2 0.02349	04-Aug-17	05:57:16
80	170803M2_80	IPA	04-Aug-17	06:08:00
81	170803M2_81	1700963-05 VEL FOAM L3 0.09911	04-Aug-17	06:18:49
82	170803M2_82	IPA	04-Aug-17	06:29:35
83	170803M2_83	1700963-06 VEL FOAM L4 0.03035	04-Aug-17	06:40:14
84	170803M2_84	IPA	04-Aug-17	06:50:52
85	170803M2_85	1700925-01 I001BC43S-170724 0.12112	04-Aug-17	07:01:39
86	170803M2_86	IPA	04-Aug-17	07:12:17
87	170803M2_87	1700925-03 I001BC50S-170724 0.12135	04-Aug-17	07:22:56
88	170803M2_88	IPA	04-Aug-17	07:33:42
89	170803M2_89	ST170803M2-6 PFC CS3 17H0202	04-Aug-17	07:44:20
90	170803M2_90	IPA	04-Aug-17	07:55:07

LC Calibration Standards Review Checklist

Q4

Calibration ID:		ION Ratio	Concentration	C-Cals Name	Sign Date	Correct I-Cal	Manual Integrations	
ST170803M2-1	L M H	NA	☒	☒	☒	☒	☒	N/A
-2	L M H	☐	☒	☒	☒	☒	☒	☐
-3	L M H	☐	☒	☒	☒	☒	☒	☐
-4	L M H	☐	☒	☒	☒	☒	☒	☐
-5	L M H	☐	☒	☒	☒	☒	☒	☐
-6	L M H	☒	☒	☒	☒	☒	☒	☒
	L M H	☐	☐	☐	☐	☐	☐	☐
	L M H	☐	☐	☐	☐	☐	☐	☐
	L M H	☐	☐	☐	☐	☐	☐	☐
	L M H	☐	☐	☐	☐	☐	☐	☐

Full Mass Cal. Date: 6/21/17

Run Log Present: ☒

of Samples per Sequence Checked: ☒

Reviewed By:

AM 9/4/15
Initials/Date

Comments:

Full List.

Dataset: U:\Q4.PRO\results\170803M2\170803M2-2.qld

Last Altered: Friday, August 04, 2017 08:44:22 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

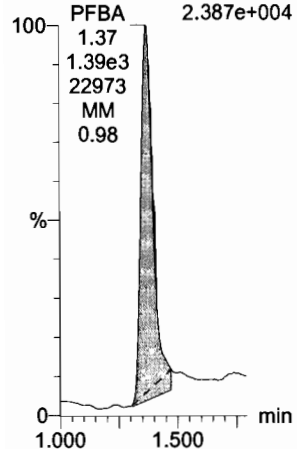
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

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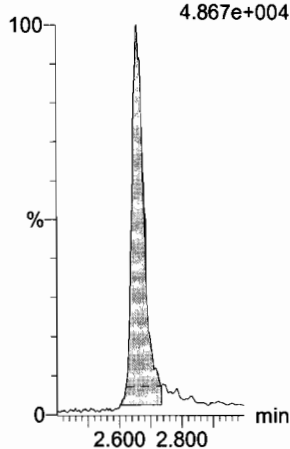
PFBA

F1:MRM of 2 channels,ES-
213.0 > 168.8
2.387e+004



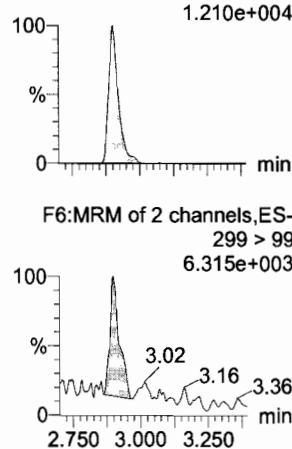
PFPeA

F4:MRM of 1 channel,ES-
263.1 > 218.9
4.867e+004



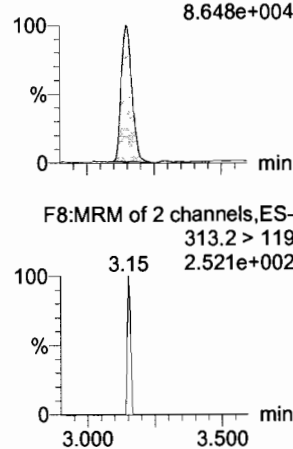
PFBS

F6:MRM of 2 channels,ES-
299 > 79.7
1.210e+004



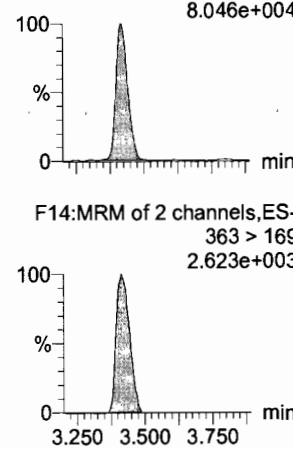
PFHxA

F8:MRM of 2 channels,ES-
313.2 > 268.9
8.648e+004



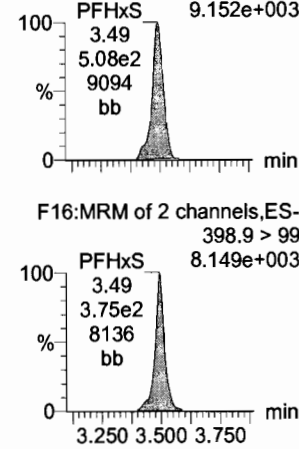
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F14:MRM of 2 channels,ES-
363 > 318.9
8.046e+004



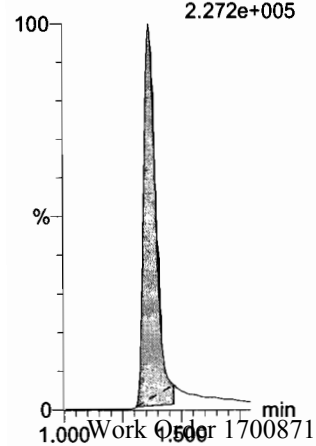
PFHxS

F16:MRM of 2 channels,ES-
398.9 > 79.6
9.152e+003



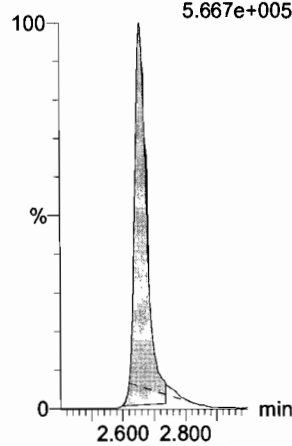
13C3-PFBA

F2:MRM of 1 channel,ES-
216.1 > 171.8
2.272e+005



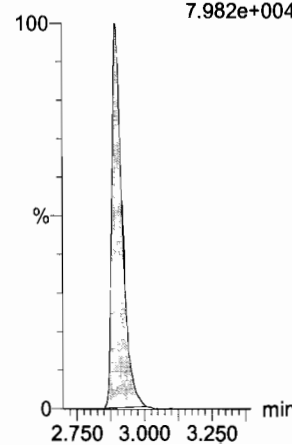
13C3-PFPeA

F5:MRM of 1 channel,ES-
266 > 221.8
5.667e+005



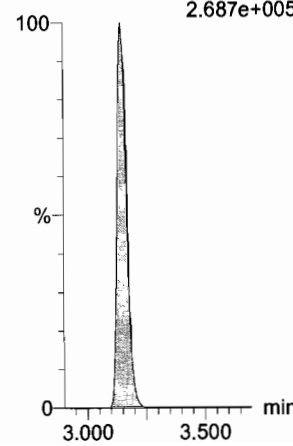
13C3-PFBS

F7:MRM of 1 channel,ES-
302 > 98.8
7.982e+004



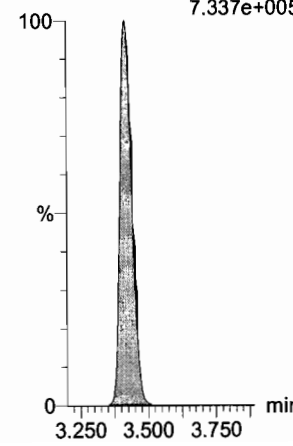
13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
2.687e+005



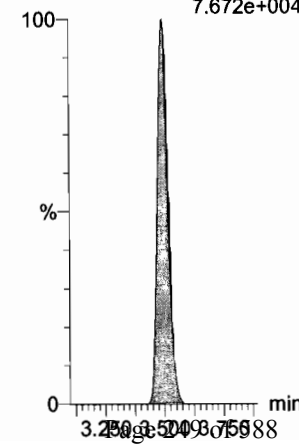
13C4-PFHpA

F15:MRM of 1 channel,ES-
367.2 > 321.8
7.337e+005



18O2-PFHxS

F18:MRM of 1 channel,ES-
403 > 102.6
7.672e+004

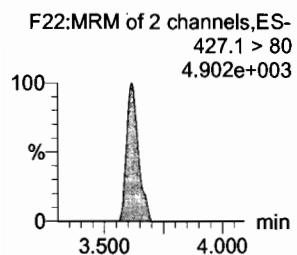
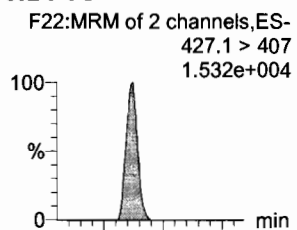


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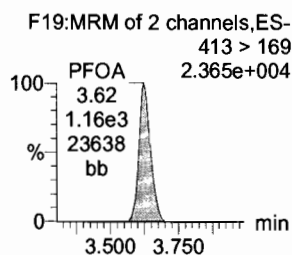
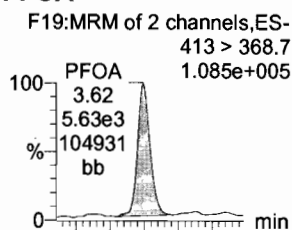
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Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

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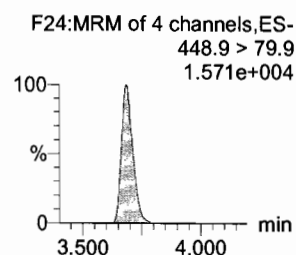
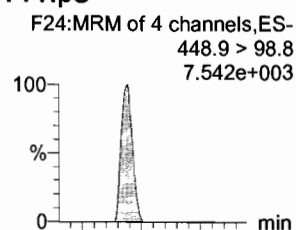
6:2 FTS



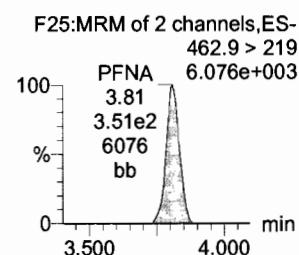
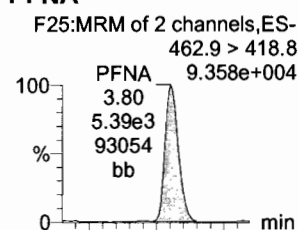
PFOA



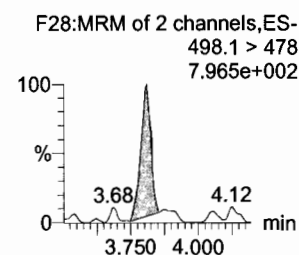
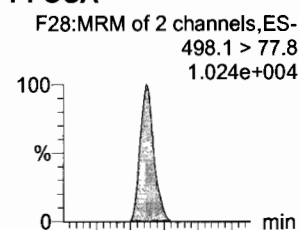
PFHpS



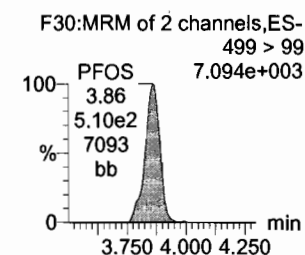
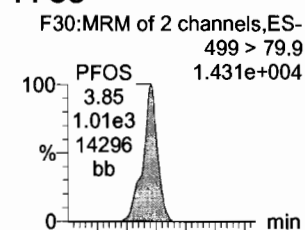
PFNA



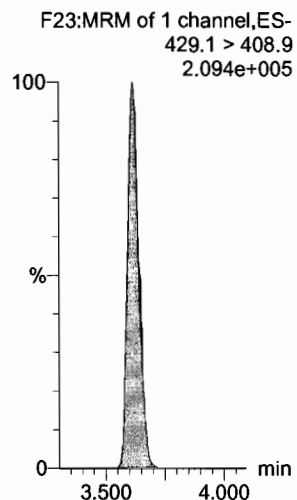
PFOSA



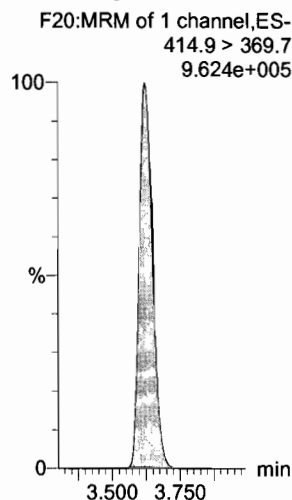
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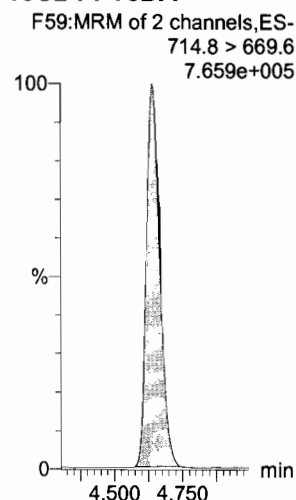
13C2-6:2 FTS



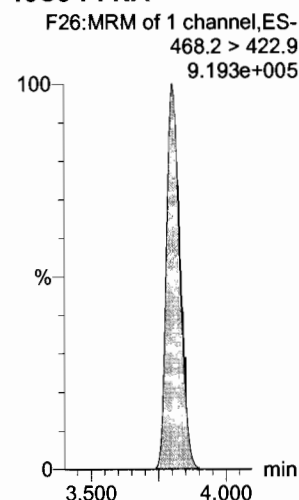
13C2-PFOA



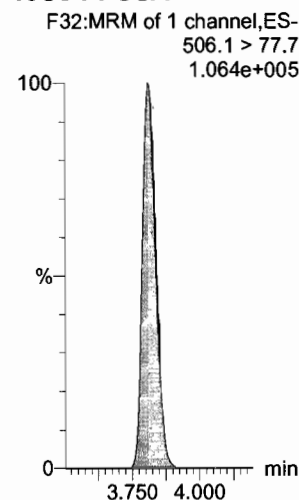
13C2-PFTeDA



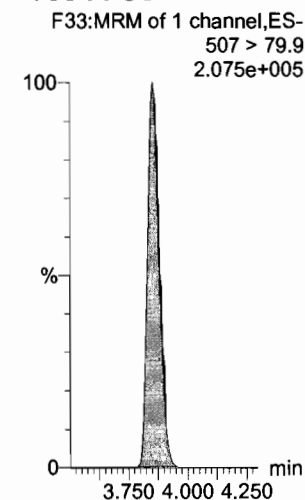
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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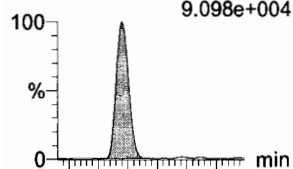
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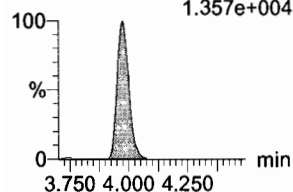
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PFDA

F35:MRM of 2 channels,ES-
513 > 468.8
9.098e+004

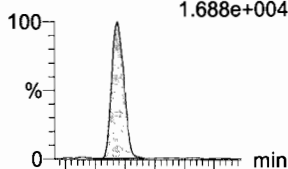


F35:MRM of 2 channels,ES-
513 > 219
1.357e+004

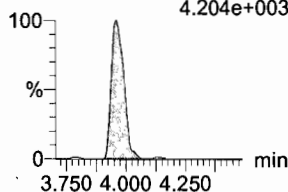


8:2 FTS

F40:MRM of 2 channels,ES-
527 > 506.9
1.688e+004

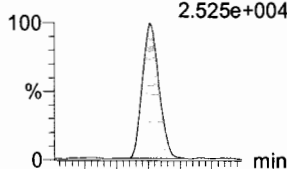


F40:MRM of 2 channels,ES-
527 > 80
4.204e+003

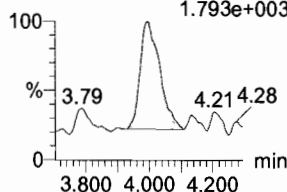


N-MeFOSAA

F45:MRM of 2 channels,ES-
570.1 > 419
2.525e+004

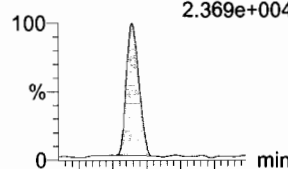


F45:MRM of 2 channels,ES-
570.1 > 483
1.793e+003

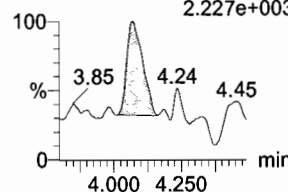


N-EtFOSAA

F48:MRM of 2 channels,ES-
584.2 > 419
2.369e+004

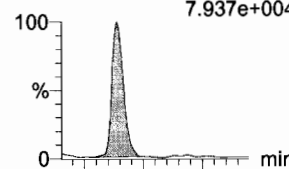


F48:MRM of 2 channels,ES-
584.2 > 483
2.227e+003

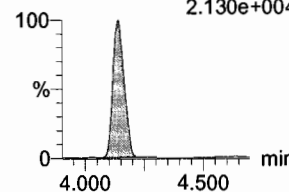


PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
7.937e+004

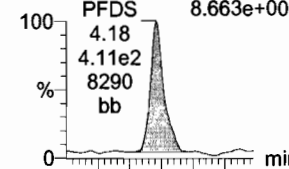


F43:MRM of 2 channels,ES-
562.9 > 269
2.130e+004

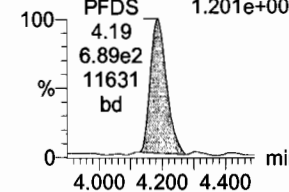


PFDS

F50:MRM of 2 channels,ES-
598.9 > 98.7
8.663e+003

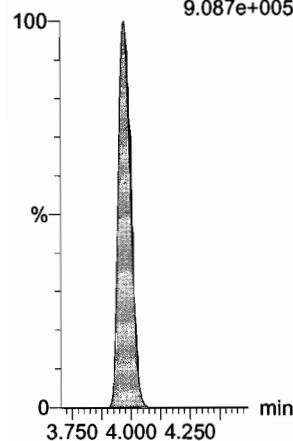


F50:MRM of 2 channels,ES-
598.9 > 80
1.201e+004



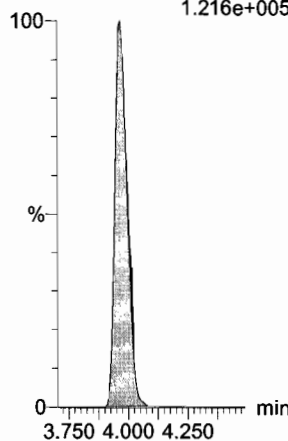
13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
9.087e+005



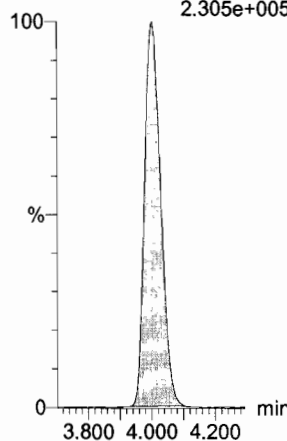
13C2-8:2 FTS

F41:MRM of 1 channel,ES-
529.1 > 508.7
1.216e+005



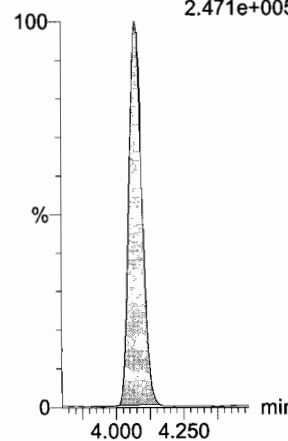
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
2.305e+005



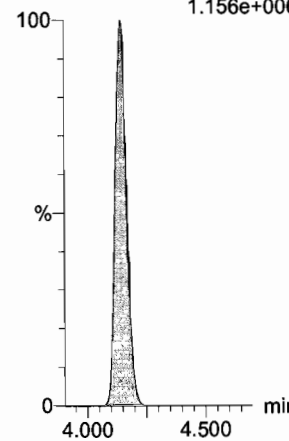
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
2.471e+005



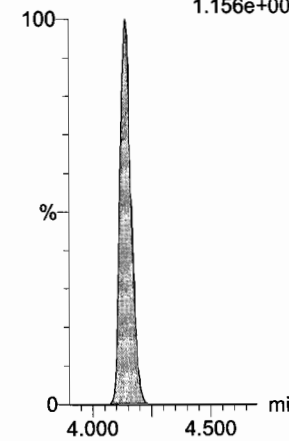
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.156e+006



13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.156e+006



Dataset: U:\Q4.PRO\results\170803M2\170803M2-2.qld

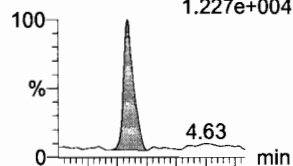
Last Altered: Friday, August 04, 2017 08:44:22 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

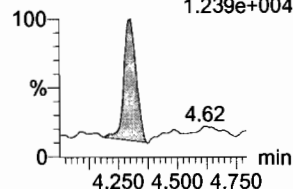
Name: 170803M2_2, Date: 03-Aug-2017, Time: 16:12:52, ID: ST170803M2-1 PFC CS0 17H0307, Description: PFC CS0 17H0307

PFDaA

F51:MRM of 2 channels,ES-
612.9 > 318.8
1.227e+004

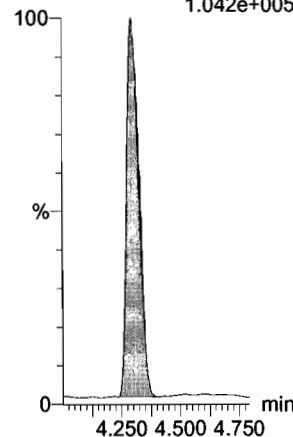


F51:MRM of 2 channels,ES-
612.9 > 569
1.239e+004



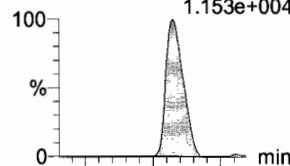
13C2-PFDaA

F52:MRM of 1 channel,ES-
615 > 569.7
1.042e+005

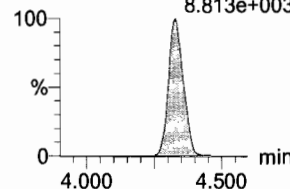


N-MeFOSA

F34:MRM of 2 channels,ES-
512.1 > 168.9
1.153e+004

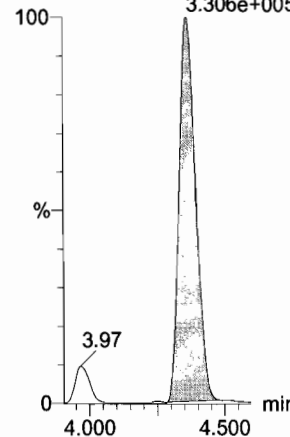


F34:MRM of 2 channels,ES-
512.1 > 219
8.813e+003



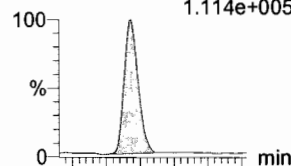
d3-N-MeFOSA

F37:MRM of 1 channel,ES-
515.2 > 168.9
3.306e+005

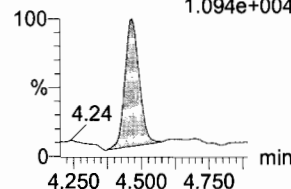


PFTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
1.114e+005

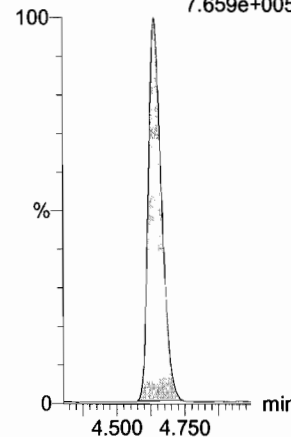


F57:MRM of 2 channels,ES-
662.9 > 319
1.094e+004



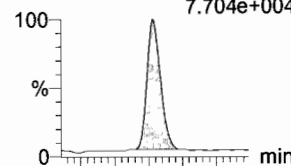
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
7.659e+005

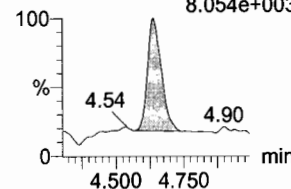


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
7.704e+004

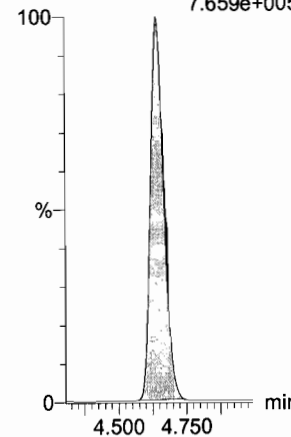


F58:MRM of 4 channels,ES-
712.9 > 369
8.054e+003



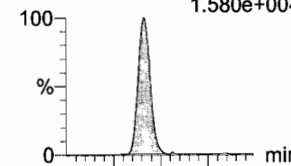
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
7.659e+005

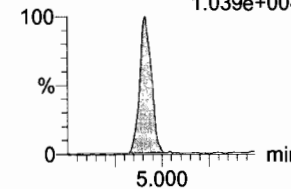


N-EtFOSA

F39:MRM of 2 channels,ES-
526.1 > 168.9
1.580e+004

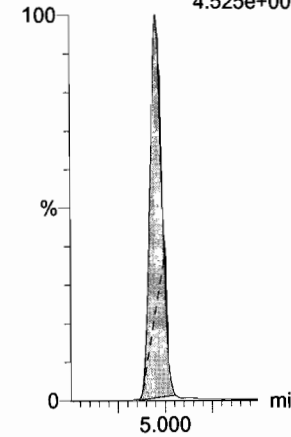


F39:MRM of 2 channels,ES-
526.1 > 219
1.039e+004



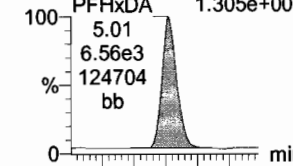
d5-N-ETFOSA

F42:MRM of 1 channel,ES-
531.1 > 168.9
4.525e+005

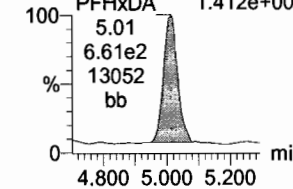


PFHxDA

F60:MRM of 2 channels,ES-
812.8 > 768.9
1.305e+005

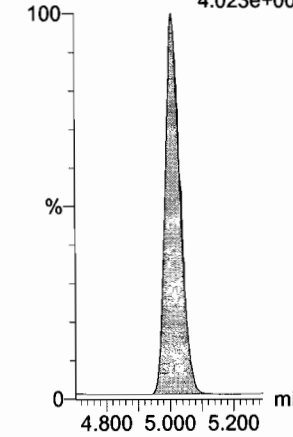


F60:MRM of 2 channels,ES-
812.8 > 219
1.412e+004



13C2-PFHxDA

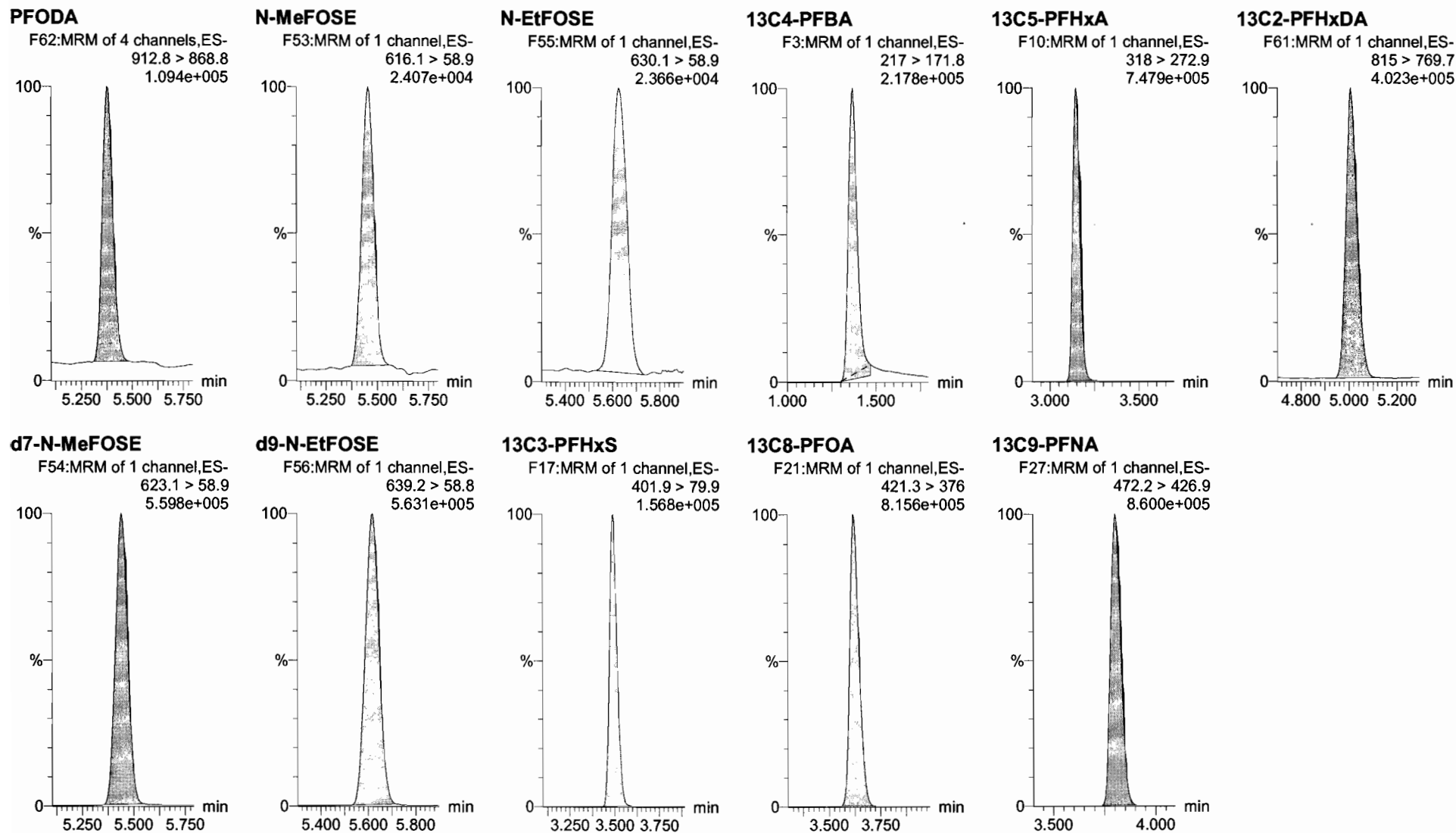
F61:MRM of 1 channel,ES-
815 > 769.7
4.023e+005



Dataset: U:\Q4.PRO\results\170803M2\170803M2-2.qld

Last Altered: Friday, August 04, 2017 08:44:22 Pacific Daylight Time
Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

Name: 170803M2_2, Date: 03-Aug-2017, Time: 16:12:52, ID: ST170803M2-1 PFC CS0 17H0307, Description: PFC CS0 17H0307



Dataset: U:\Q4.PRO\results\170803M2\170803M2-2.qld

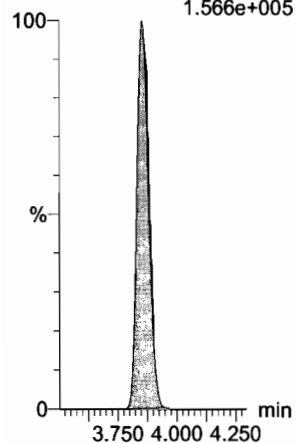
Last Altered: Friday, August 04, 2017 08:44:22 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:48:29 Pacific Daylight Time

Name: 170803M2_2, Date: 03-Aug-2017, Time: 16:12:52, ID: ST170803M2-1 PFC CS0 17H0307, Description: PFC CS0 17H0307

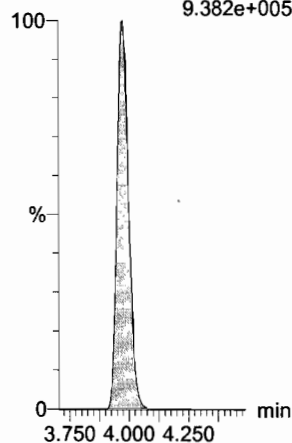
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.566e+005



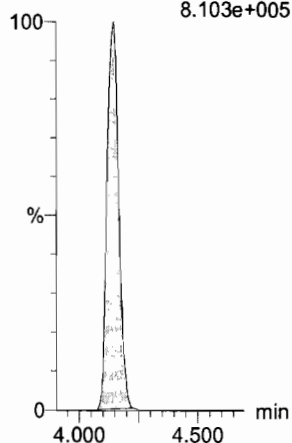
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
9.382e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
8.103e+005



Dataset: U:\Q4.PRO\results\170803M2\170803M2-22.qld

Last Altered: Friday, August 04, 2017 08:53:55 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:57:24 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-27-17.mdb 28 Jul 2017 08:06:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Name: 170803M2_22, Date: 03-Aug-2017, Time: 19:47:10, ID: ST170803M2-2 PFC CS3 17H0202, Description: PFC CS3 17H0202

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.25e4	1.46e4		1.32	1.40	10.7	9.83	98.3
2	2 PFPeA	263.1 > 218.9	2.16e4	2.83e4		2.77	2.69	9.53	9.97	99.7
3	3 PFBS	299 > 79.7	5.37e3	3.54e3		2.96	2.92	19.0	10.0	100.3
4	4 PFHxA	313.2 > 268.9	3.86e4	1.39e4		3.19	3.16	13.9	9.89	98.9
5	5 PFHpA	363 > 318.9	3.70e4	3.85e4		3.45	3.43	12.0	9.98	99.8
6	6 PFHxS	398.9 > 79.6	4.93e3	3.96e3		3.56	3.51	15.6	9.24	92.4
7	7 6:2 FTS	427.1 > 407	8.90e3	1.09e4		3.64	3.63	10.2	9.01	90.1
8	8 PFOA	413 > 368.7	4.98e4	6.48e4		3.65	3.64	9.61	9.92	99.2
9	9 PFHpS	448.9 > 98.8	4.92e3	6.48e4		3.65	3.70	0.950	10.9	109.4
10	10 PFNA	462.9 > 418.8	5.06e4	5.73e4		3.83	3.82	11.0	10.1	101.1
11	11 PFOSA	498.1 > 77.8	5.22e3	6.57e3		3.84	3.83	9.94	9.28	92.8
12	12 PFOS	499 > 79.9	9.25e3	1.22e4		3.89	3.87	9.49	9.27	92.7
13	13 PFDA	513 > 468.8	6.07e4	6.05e4		4.01	3.99	12.6	10.3	103.3
14	14 8:2 FTS	527 > 506.9	7.16e3	6.37e3		4.00	3.99	14.0	9.96	99.6
15	15 N-MeFOSAA	570.1 > 419	1.53e4	1.32e4		4.03	4.02	189	10.6	105.9
16	16 N-EtFOSAA	584.2 > 419	1.18e4	1.29e4		4.10	4.09	148	9.62	96.2
17	17 PFUnA	562.9 > 518.9	3.97e4	6.77e4		4.17	4.16	7.33	9.57	95.7
18	18 PFDS	598.9 > 98.7	4.14e3	6.77e4		4.22	4.20	0.765	9.51	95.1
19	19 PFDoA	612.9 > 318.8	4.87e3	6.42e3		4.34	4.32	9.49	10.1	100.8
20	20 N-MeFOSA	512.1 > 168.9	8.72e3	2.37e4		4.29	4.36	55.2	54.7	109.4
21	21 PFTrDA	662.9 > 618.9	5.87e4	6.42e3		4.50	4.49	114	10.9	109.0
22	22 PFTeDA	712.9 > 668.8	3.91e4	4.55e4		4.68	4.67	10.7	9.92	99.2
23	23 N-EtFOSA	526.1 > 168.9	1.05e4	3.30e4		4.79	4.94	47.6	51.2	102.4
24	24 PFHxDA	812.8 > 768.9	5.79e4	2.19e4		5.06	5.04	13.2	10.3	103.2
25	25 PFODA	912.8 > 868.8	5.71e4	2.19e4		5.43	5.41	13.0	11.4	114.3
26	26 N-MeFOSE	616.1 > 58.9	1.37e4	3.88e4		5.42	5.47	52.9	51.2	102.3
27	27 N-EtFOSE	630.1 > 58.9	1.55e4	3.85e4		5.59	5.64	60.5	51.6	103.2
28	28 13C3-PFBA	216.1 > 171.8	1.46e4	1.39e4	1.006	1.32	1.40	13.1	13.0	104.1
29	29 13C3-PFPeA	266 > 221.8	2.83e4	4.03e4	0.275	2.77	2.69	3.51	12.8	102.1
30	30 13C3-PFBS	302 > 98.8	3.54e3	4.03e4	0.034	2.96	2.92	0.439	12.9	102.9
31	31 13C3-PFHxA	315 > 269.8	1.39e4	4.03e4	0.334	3.19	3.16	1.72	5.16	103.2

AC
8/4/17

70-130

50-150

Dataset: U:\Q4.PRO\results\170803M2\170803M2-22.qld

Last Altered: Friday, August 04, 2017 08:53:55 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:57:24 Pacific Daylight Time

Name: 170803M2_22, Date: 03-Aug-2017, Time: 19:47:10, ID: ST170803M2-2 PFC CS3 17H0202, Description: PFC CS3 17H0202

	#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32	13C4-PFHpA	367.2 > 321.8	3.85e4	4.03e4	0.414	3.45	3.43	4.77	11.5	92.2
33	33	18O2-PFHxS	403 > 102.6	3.96e3	7.76e3	0.475	3.56	3.51	6.38	13.4	107.3
34	34	13C2-6:2 FTS	429.1 > 408.9	1.09e4	4.66e4	0.214	3.64	3.63	2.94	13.7	109.8
35	35	13C2-PFOA	414.9 > 369.7	6.48e4	4.66e4	1.298	3.65	3.64	17.4	13.4	107.0
36	36	13C5-PFNA	468.2 > 422.9	5.73e4	5.64e4	1.094	3.83	3.82	12.7	11.6	92.9
37	37	13C8-PFOSA	506.1 > 77.7	6.57e3	5.95e4	0.124	3.84	3.83	1.38	11.1	88.8
38	38	13C8-PFOS	507 > 79.9	1.22e4	1.00e4	1.153	3.89	3.87	15.2	13.2	105.6
39	39	13C2-PFDA	515.1 > 469.9	6.05e4	5.77e4	1.059	4.01	3.99	13.1	12.4	99.0
40	40	13C2-8:2 FTS	529.1 > 508.7	6.37e3	5.77e4	0.129	4.00	3.98	1.38	10.7	85.9
41	41	d3-N-MeFOSAA	573.3 > 419	1.32e4	5.95e4	0.019	4.03	4.02	2.77	144	88.3
42	42	d5-N-EtFOSAA	589.3 > 419	1.29e4	5.95e4	0.019	4.12	4.09	2.72	144	88.4
43	43	13C2-PFUnA	565 > 519.8	6.77e4	5.95e4	1.172	4.17	4.15	14.2	12.1	97.0
44	44	13C2-PFDoA	615 > 569.7	6.42e3	5.95e4	0.118	4.34	4.32	1.35	11.4	91.1
45	45	d3-N-MeFOSA	515.2 > 168.9	2.37e4	5.95e4	0.040	4.29	4.39	4.97	123	82.0
46	46	13C2-PFTeDA	714.8 > 669.6	4.55e4	5.95e4	0.801	4.68	4.67	9.57	11.9	95.5
47	47	d5-N-ETFOSA	531.1 > 168.9	3.30e4	5.95e4	0.055	4.85	4.98	6.94	126	84.0
48	48	13C2-PFHxDA	815 > 769.7	2.19e4	5.95e4	0.991	5.06	5.04	4.61	4.65	93.0
49	49	d7-N-MeFOSE	623.1 > 58.9	3.88e4	5.95e4	0.065	5.42	5.45	8.15	125	83.4
50	50	d9-N-EtFOSE	639.2 > 58.8	3.85e4	5.95e4	0.065	5.59	5.63	8.10	125	83.3
51	51	13C4-PFBA	217 > 171.8	1.39e4	1.39e4	1.000	1.32	1.40	12.5	12.5	100.0
52	52	13C5-PFHxA	318 > 272.9	4.03e4	4.03e4	1.000	3.19	3.16	5.00	5.00	100.0
53	53	13C3-PFHxS	401.9 > 79.9	7.76e3	7.76e3	1.000	3.56	3.51	12.5	12.5	100.0
54	54	13C8-PFOA	421.3 > 376	4.66e4	4.66e4	1.000	3.65	3.64	12.5	12.5	100.0
55	55	13C9-PFNA	472.2 > 426.9	5.64e4	5.64e4	1.000	3.83	3.82	12.5	12.5	100.0
56	56	13C4-PFOS	503 > 79.9	1.00e4	1.00e4	1.000	3.89	3.87	12.5	12.5	100.0
57	57	13C6-PFDA	519.1 > 473.7	5.77e4	5.77e4	1.000	4.01	3.99	12.5	12.5	100.0
58	58	13C7-PFUnA	570.1 > 524.8	5.95e4	5.95e4	1.000	4.17	4.15	12.5	12.5	100.0

50-150



Dataset: Untitled

Last Altered: Friday, August 04, 2017 09:33:42 Pacific Daylight Time

Printed: Friday, August 04, 2017 10:28:42 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-27-17.mdb 28 Jul 2017 08:06:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170803M2_1	IPA	03-Aug-17	16:02:09
2	170803M2_2	ST170803M2-1 PFC CS0 17H0307	03-Aug-17	16:12:52
3	170803M2_3	IPA	03-Aug-17	16:23:40
4	170803M2_4	1700925-02 SB01-170724 0.12178	03-Aug-17	16:34:26
5	170803M2_5	1700925-06 EB01-170724 0.1185	03-Aug-17	16:45:12
6	170803M2_6	1700929-01 MATP01001 0.11834	03-Aug-17	16:55:51
7	170803M2_7	1700938-01 NORP08102 0.11844	03-Aug-17	17:06:36
8	170803M2_8	1700938-02 NORP08103 0.12014	03-Aug-17	17:17:30
9	170803M2_9	1700936-01 BULK TANK #1 0.005	03-Aug-17	17:28:17
10	170803M2_10	1700936-02 BULK TANK #2 0.005	03-Aug-17	17:38:55
11	170803M2_11	1700871-11@5X 16-GW-16_MW04-2017071...	03-Aug-17	17:49:34
12	170803M2_12	IPA	03-Aug-17	18:00:12
13	170803M2_13	1700925-01@15X I001BC43S-170724 0.12112	03-Aug-17	18:10:51
14	170803M2_14	IPA	03-Aug-17	18:21:33
15	170803M2_15	1700925-03@15X I001BC50S-170724 0.12135	03-Aug-17	18:32:17
16	170803M2_16	IPA	03-Aug-17	18:42:55
17	170803M2_17	B7G0122-BS1 OPR 0.25	03-Aug-17	18:53:33
18	170803M2_18	IPA	03-Aug-17	19:04:20
19	170803M2_19	B7G0122-BLK1 Method Blank 0.25	03-Aug-17	19:14:58
20	170803M2_20	1700891-06RE1 VEL FOAM 0.17113	03-Aug-17	19:25:37
21	170803M2_21	IPA	03-Aug-17	19:36:23
22	170803M2_22	ST170803M2-2 PFC CS3 17H0202	03-Aug-17	19:47:10
23	170803M2_23	IPA	03-Aug-17	19:57:57
24	170803M2_24	B7H0007-BS1 OPR 0.25	03-Aug-17	20:08:35
25	170803M2_25	B7H0010-BS1 OPR 5	03-Aug-17	20:19:13
26	170803M2_26	B7H0011-BS1 OPR 5	03-Aug-17	20:29:52
27	170803M2_27	B7H0012-BS1 OPR 0.25	03-Aug-17	20:40:30
28	170803M2_28	B7H0007-BSD1 LCS Dup 0.25	03-Aug-17	20:51:17
29	170803M2_29	IPA	03-Aug-17	21:01:55
30	170803M2_30	B7H0007-BLK1 Method Blank 0.25	03-Aug-17	21:12:41
31	170803M2_31	B7H0010-BLK1 Method Blank 5	03-Aug-17	21:23:20

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Last Altered: Friday, August 04, 2017 09:33:42 Pacific Daylight Time

Printed: Friday, August 04, 2017 10:28:42 Pacific Daylight Time

Compound name: PFBA

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33	170803M2_33	B7H0012-BLK1 Method Blank 0.25	03-Aug-17	21:44:37
34	170803M2_34	1700862-01 WS 252 0.00025	03-Aug-17	21:55:15
35	170803M2_35	1700952-01 CP-IDW-072517 0.24347	03-Aug-17	22:06:01
36	170803M2_36	1700953-01 TF4-IDW-072517-01 0.26372	03-Aug-17	22:16:55
37	170803M2_37	1700953-02 TF4-IDW-072517-02 0.26543	03-Aug-17	22:27:44
38	170803M2_38	1700954-01 TF5-IDW-072517 0.25837	03-Aug-17	22:38:30
39	170803M2_39	1700818-01 QPFD-1 5	03-Aug-17	22:49:08
40	170803M2_40	1700818-02 QPFD-2 5	03-Aug-17	22:59:55
41	170803M2_41	1700818-03 QPFD-3 5	03-Aug-17	23:10:33
42	170803M2_42	1700818-04 QPFD-4 5	03-Aug-17	23:21:11
43	170803M2_43	1700818-05 QPFD-5 5	03-Aug-17	23:31:50
44	170803M2_44	IPA	03-Aug-17	23:42:28
45	170803M2_45	ST170803M2-3 PFC CS3 17H0202	03-Aug-17	23:53:06
46	170803M2_46	IPA	04-Aug-17	00:03:53
47	170803M2_47	1700818-06 QPFD-6 5	04-Aug-17	00:14:34
48	170803M2_48	1700818-07 QPFD-7 5	04-Aug-17	00:25:19
49	170803M2_49	1700818-08 QPFD-8 5	04-Aug-17	00:35:57
50	170803M2_50	1700818-09 QPFD-9 5	04-Aug-17	00:46:44
51	170803M2_51	1700818-10 QPFD-10 5	04-Aug-17	00:57:39
52	170803M2_52	1700818-11 QPFD-11 5	04-Aug-17	01:08:26
53	170803M2_53	1700818-12 QPFD-12 5	04-Aug-17	01:19:04
54	170803M2_54	1700818-13 QPFD-13 5	04-Aug-17	01:29:51
55	170803M2_55	1700903-01 1958 5	04-Aug-17	01:40:29
56	170803M2_56	B7H0010-DUP1 Duplicate 5	04-Aug-17	01:51:08
57	170803M2_57	1700819-01 QPFD-14 5	04-Aug-17	02:01:46
58	170803M2_58	IPA	04-Aug-17	02:12:27
59	170803M2_59	ST170803M2-4 PFC CS0 17H0307	04-Aug-17	02:23:13
60	170803M2_60	IPA	04-Aug-17	02:33:58
61	170803M2_61	1700819-02 QPFD-15 5	04-Aug-17	02:44:36
62	170803M2_62	1700819-03 QPFD-16 5	04-Aug-17	02:55:15
63	170803M2_63	1700819-04 QPFD-17 5	04-Aug-17	03:05:53
64	170803M2_64	1700819-05 QPFD-18 5	04-Aug-17	03:16:32
65	170803M2_65	1700819-06 QPFD-19 5	04-Aug-17	03:27:10

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Compound name: PFBA

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68	170803M2_68	1700819-09 QPFD-22 5	04-Aug-17	03:59:13
69	170803M2_69	1700819-10 QPFD-23 5	04-Aug-17	04:10:00
70	170803M2_70	1700819-11 QPFD-24 5	04-Aug-17	04:20:46
71	170803M2_71	IPA	04-Aug-17	04:31:33
72	170803M2_72	ST170803M2-5 PFC CS3 17H0202	04-Aug-17	04:42:11
73	170803M2_73	IPA	04-Aug-17	04:52:57
74	170803M2_74	1700819-12 QPFD-25 5	04-Aug-17	05:03:36
75	170803M2_75	1700819-13 QPFD-26 5	04-Aug-17	05:14:14
76	170803M2_76	1700963-01 SW VEL L2 0.25308	04-Aug-17	05:24:54
77	170803M2_77	1700963-02 SW VEL L3 0.21924	04-Aug-17	05:35:42
78	170803M2_78	1700963-03 SW VEL L4 0.25896	04-Aug-17	05:46:38
79	170803M2_79	1700963-04 VEL FOAM L2 0.02349	04-Aug-17	05:57:16
80	170803M2_80	IPA	04-Aug-17	06:08:00
81	170803M2_81	1700963-05 VEL FOAM L3 0.09911	04-Aug-17	06:18:49
82	170803M2_82	IPA	04-Aug-17	06:29:35
83	170803M2_83	1700963-06 VEL FOAM L4 0.03035	04-Aug-17	06:40:14
84	170803M2_84	IPA	04-Aug-17	06:50:52
85	170803M2_85	1700925-01 I001BC43S-170724 0.12112	04-Aug-17	07:01:39
86	170803M2_86	IPA	04-Aug-17	07:12:17
87	170803M2_87	1700925-03 I001BC50S-170724 0.12135	04-Aug-17	07:22:56
88	170803M2_88	IPA	04-Aug-17	07:33:42
89	170803M2_89	ST170803M2-6 PFC CS3 17H0202	04-Aug-17	07:44:20
90	170803M2_90	IPA	04-Aug-17	07:55:07

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Last Altered: Friday, August 04, 2017 08:53:55 Pacific Daylight Time

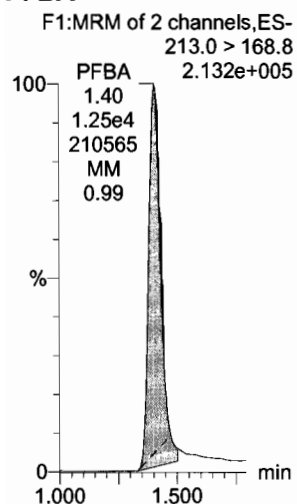
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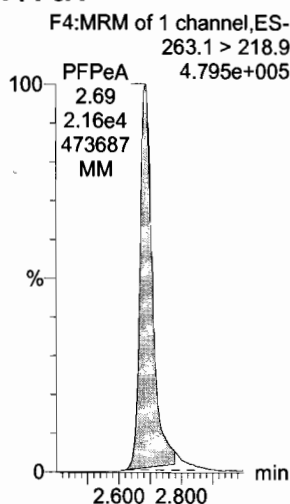
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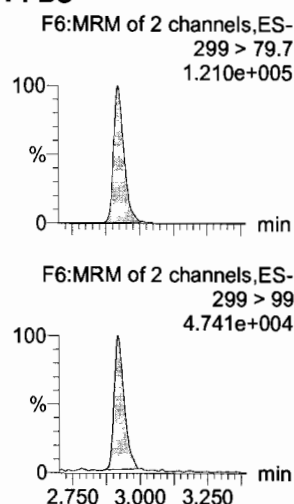
PFBA



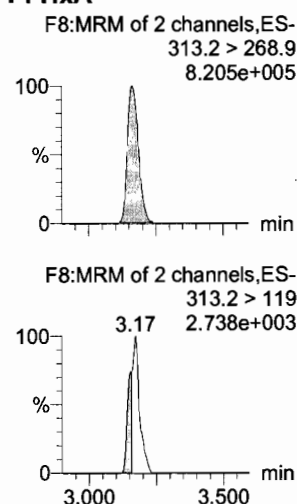
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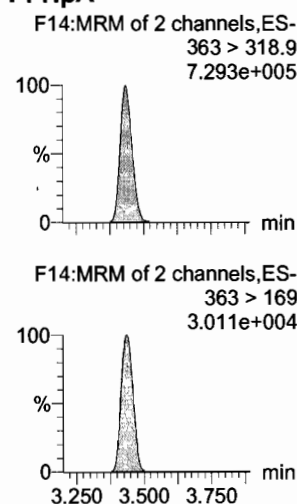
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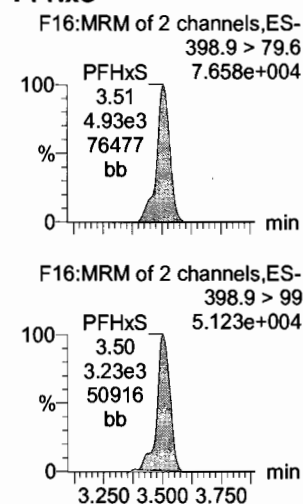
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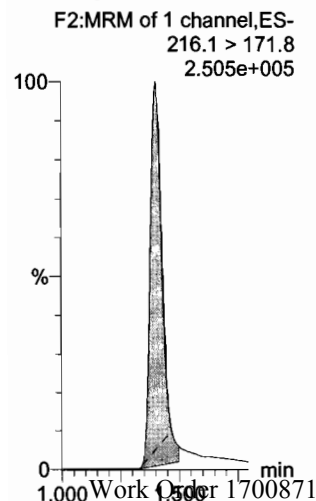
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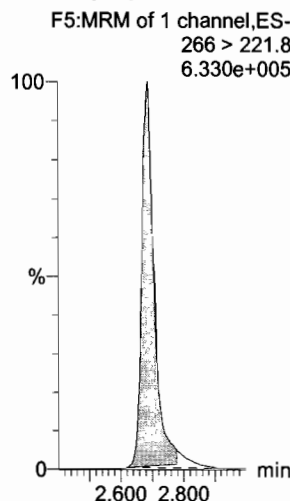
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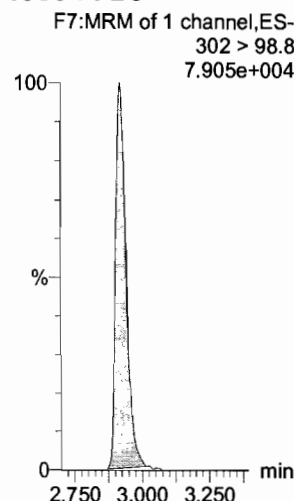
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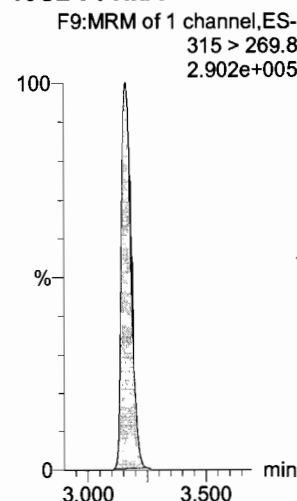
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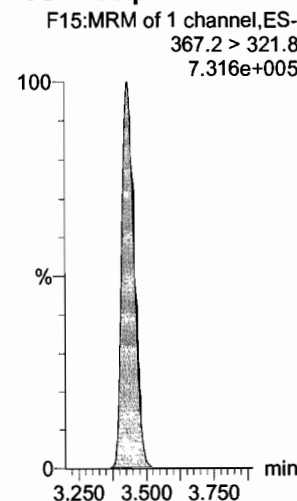
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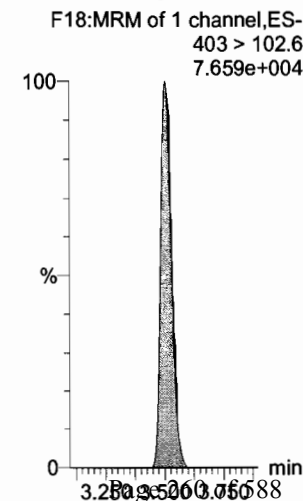
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13C4-PFHpA



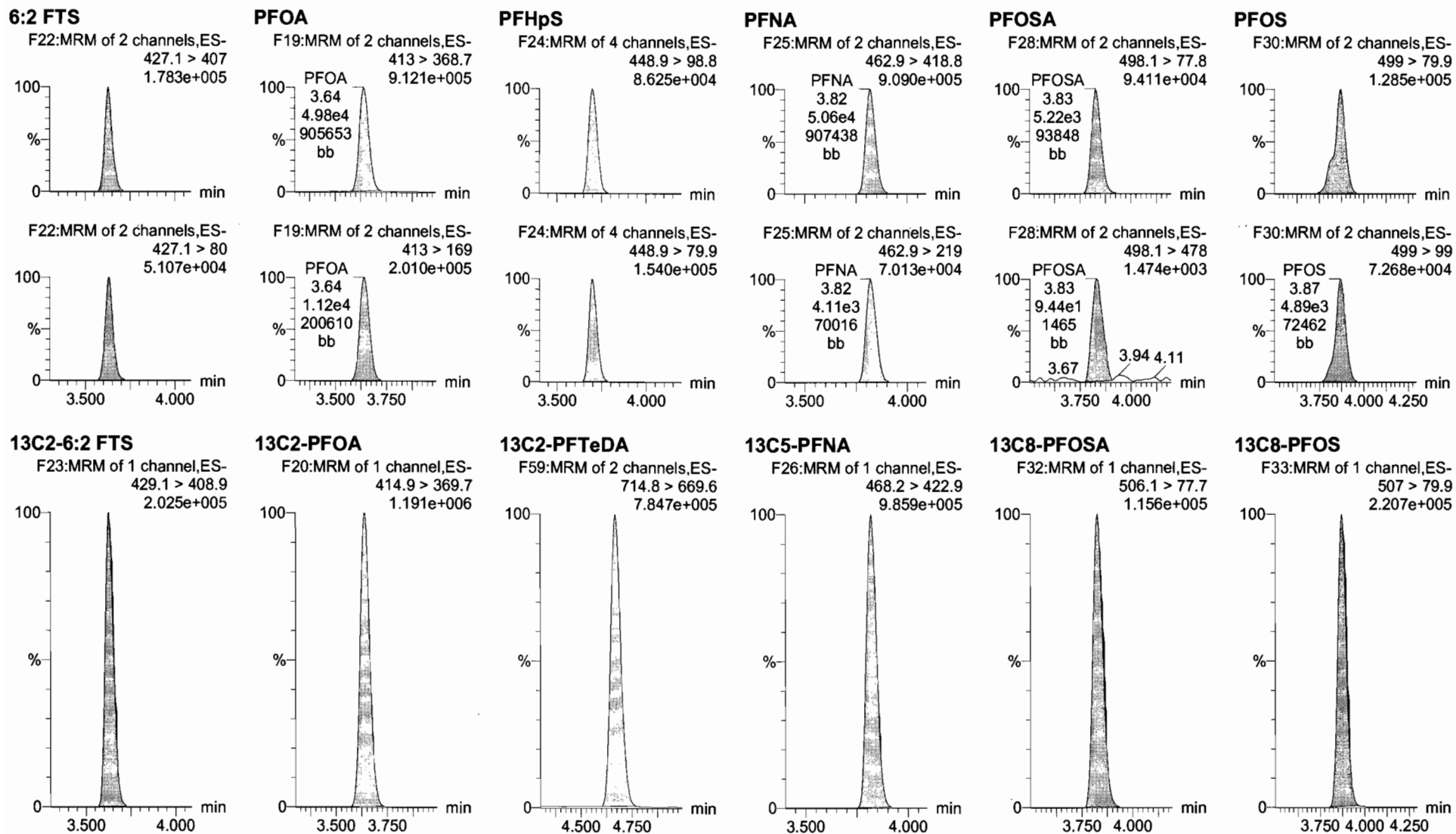
18O2-PFHxS



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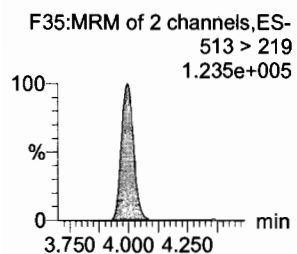
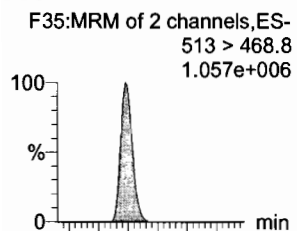
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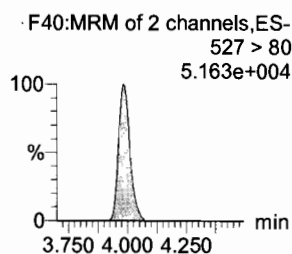
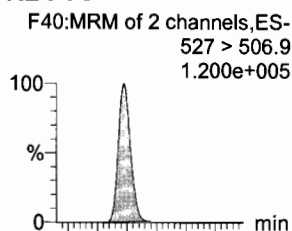
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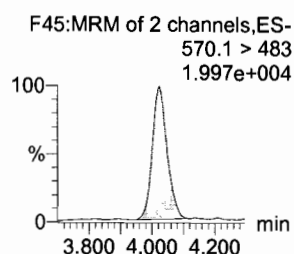
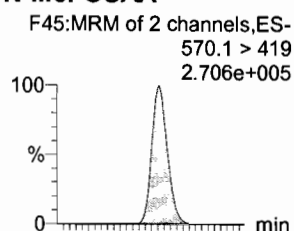
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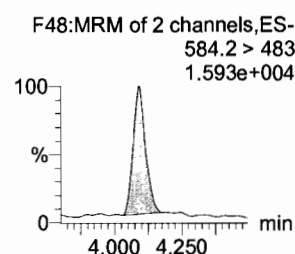
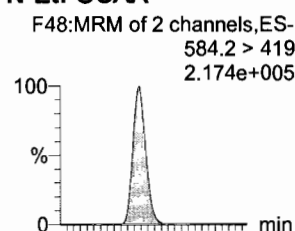
8:2 FTS



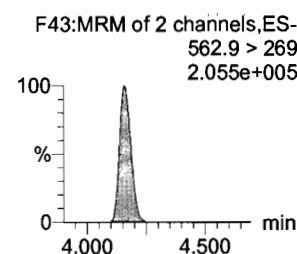
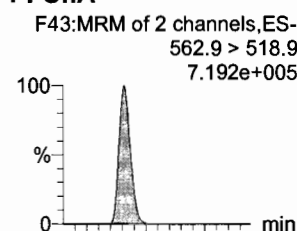
N-MeFOSAA



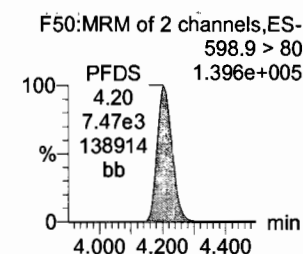
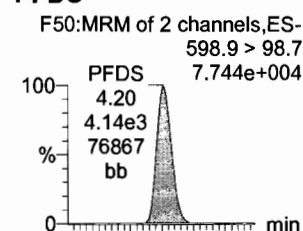
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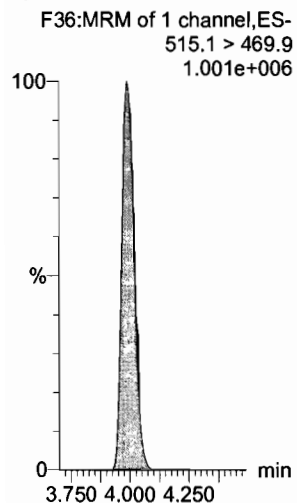
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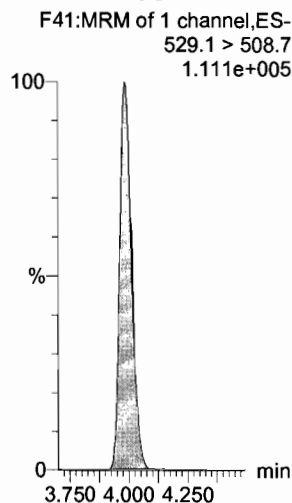
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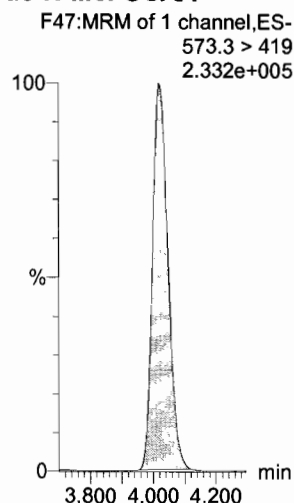
13C2-PFDA



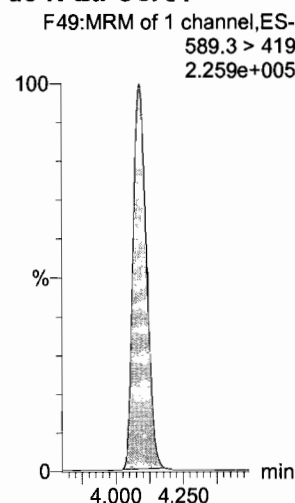
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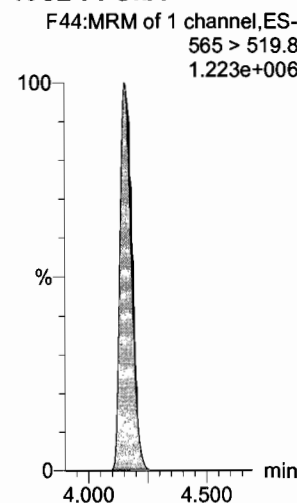
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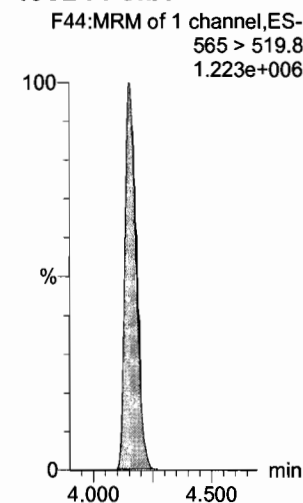
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13C2-PFUnA



13C2-PFUnA



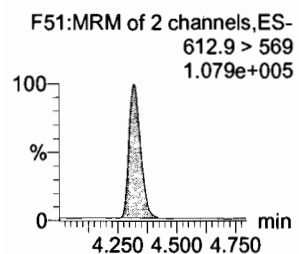
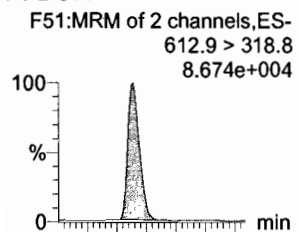
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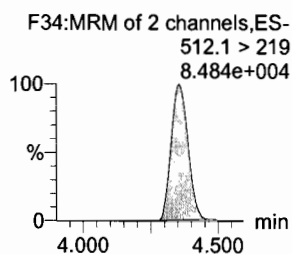
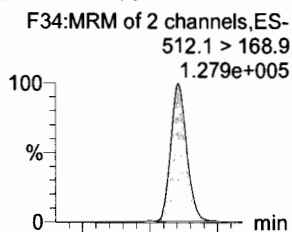
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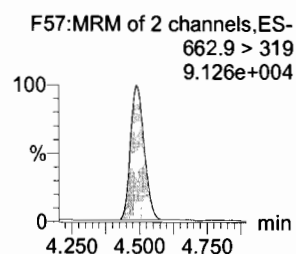
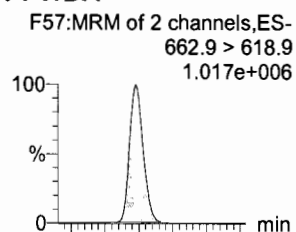
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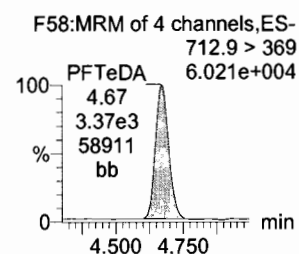
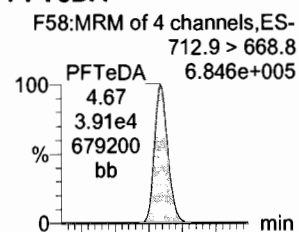
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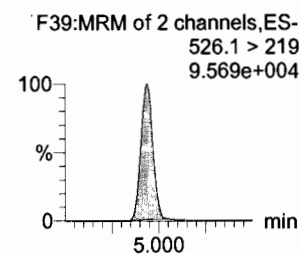
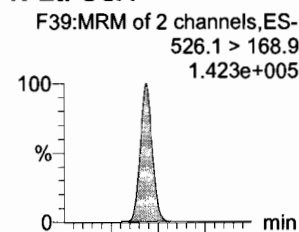
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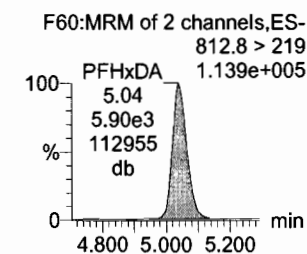
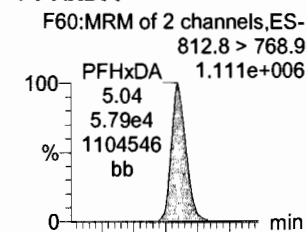
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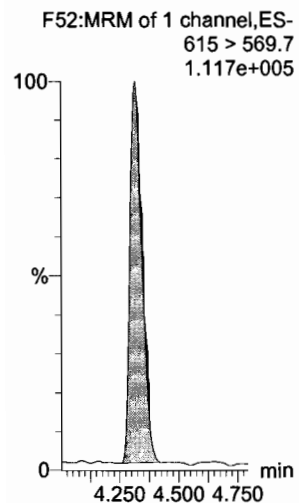
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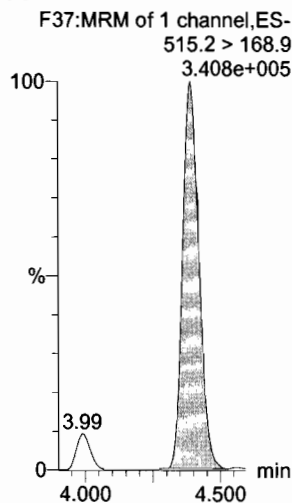
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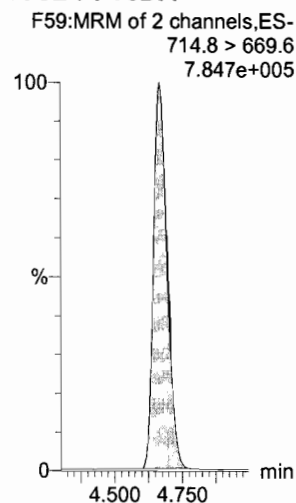
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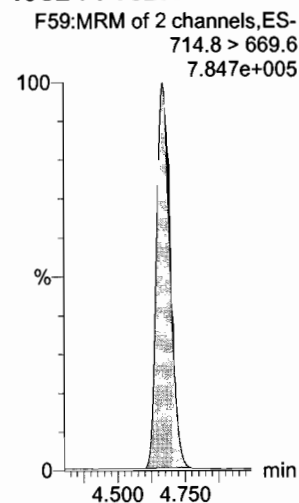
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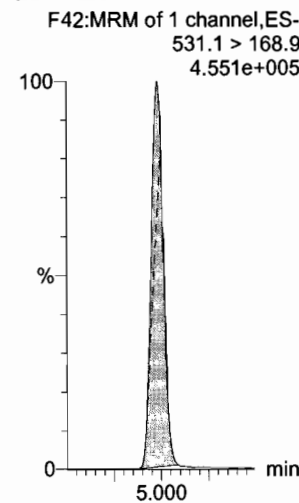
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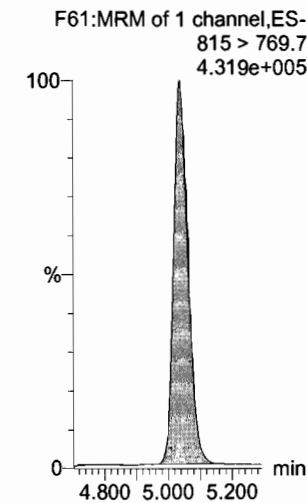
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d5-N-ETFOSA



13C2-PFHxDA



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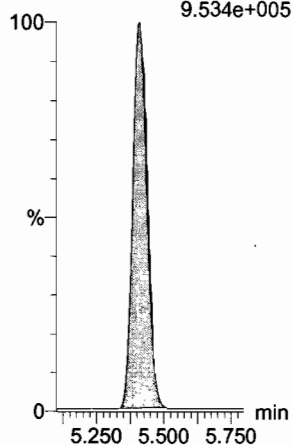
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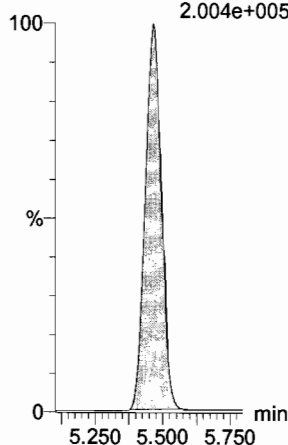
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F62:MRM of 4 channels,ES-
912.8 > 868.8
9.534e+005



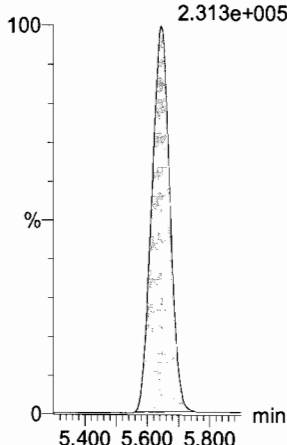
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
2.004e+005



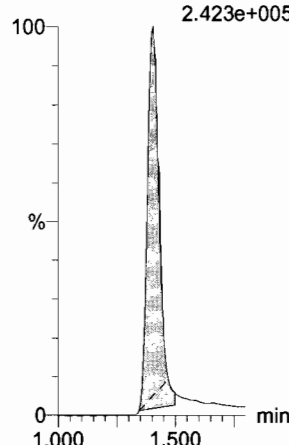
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F55:MRM of 1 channel,ES-
630.1 > 58.9
2.313e+005



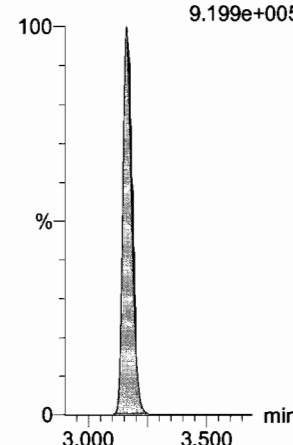
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F3:MRM of 1 channel,ES-
217 > 171.8
2.423e+005



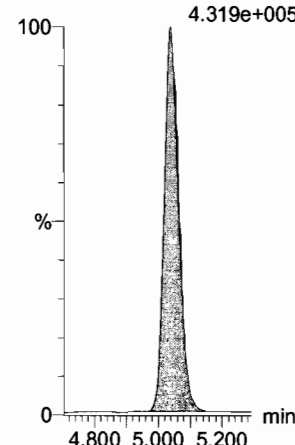
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
9.199e+005



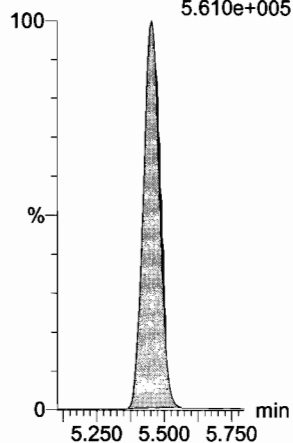
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
4.319e+005



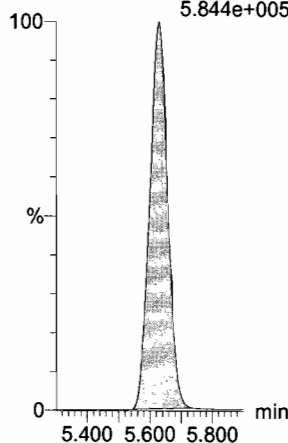
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.610e+005



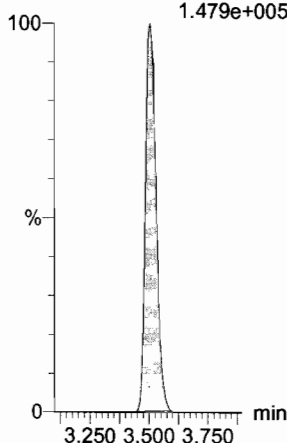
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.844e+005



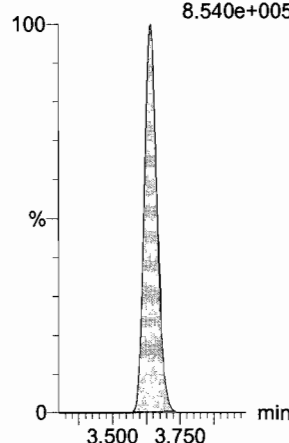
13C3-PFHxS

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.479e+005



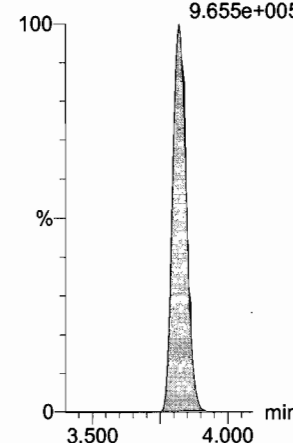
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
8.540e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
9.655e+005



Dataset: U:\Q4.PRO\results\170803M2\170803M2-22.qld

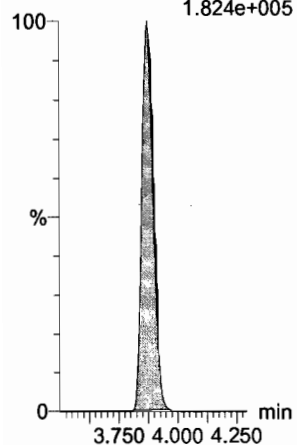
Last Altered: Friday, August 04, 2017 08:53:55 Pacific Daylight Time

Printed: Friday, August 04, 2017 08:57:24 Pacific Daylight Time

Name: 170803M2_22, Date: 03-Aug-2017, Time: 19:47:10, ID: ST170803M2-2 PFC CS3 17H0202, Description: PFC CS3 17H0202

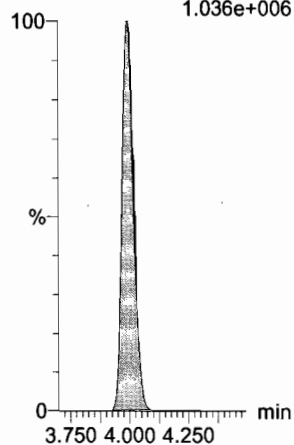
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.824e+005



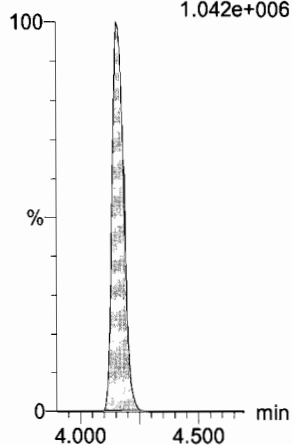
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.036e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.042e+006



INITIAL CALIBRATION

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

Printed: Friday, July 28, 2017 09:08:22 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999016$

Calibration curve: $-0.000148745 * x^2 + 1.144 * x + 0.0934277$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

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

AC
7/28/17
for 7/28/17

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170727M1_6	Standard	0.250	1.32	402.541	13153.632	0.383	0.3	1.1	NO	0.999	NO	MM
2	2 170727M1_7	Standard	0.500	1.32	900.679	16229.239	0.694	0.5	5.0	NO	0.999	NO	bb
3	3 170727M1_8	Standard	1.000	1.32	1532.875	13631.894	1.406	1.1	14.7	NO	0.999	NO	bb
4	4 170727M1_9	Standard	2.000	1.32	3476.482	17379.277	2.500	2.1	5.2	NO	0.999	NO	bb
5	5 170727M1_10	Standard	5.000	1.32	7094.940	13706.406	6.470	5.6	11.6	NO	0.999	NO	bb
6	6 170727M1_11	Standard	10.000	1.32	14607.091	16386.203	11.143	9.7	-3.3	NO	0.999	NO	bb
7	7 170727M1_12	Standard	50.000	1.32	69465.063	15585.783	55.712	48.9	-2.1	NO	0.999	NO	bb
8	8 170727M1_13	Standard	100.000	1.32	120916.445	13303.807	113.611	100.5	0.5	NO	0.999	NO	bb

Compound name: PFPeA

Correlation coefficient: $r = 0.999743$, $r^2 = 0.999486$

Calibration curve: $0.998566 * x + 0.0863273$

Response type: Internal Std (Ref 21), 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 170727M1_6	Standard	0.250	2.62	977.753	42840.023	0.285	0.2	-20.3	NO	0.999	NO	MM
2	2 170727M1_7	Standard	0.500	2.63	2278.154	48017.777	0.593	0.5	1.5	NO	0.999	NO	MM
3	3 170727M1_8	Standard	1.000	2.63	4013.757	44080.910	1.138	1.1	5.3	NO	0.999	NO	MM
4	4 170727M1_9	Standard	2.000	2.63	8123.328	46122.711	2.202	2.1	5.9	NO	0.999	NO	MM
5	5 170727M1_10	Standard	5.000	2.63	19398.813	43342.047	5.595	5.5	10.3	NO	0.999	NO	MM
6	6 170727M1_11	Standard	10.000	2.63	35041.879	44586.609	9.824	9.8	-2.5	NO	0.999	NO	MM
7	7 170727M1_12	Standard	50.000	2.63	167534.391	41776.168	50.129	50.1	0.2	NO	0.999	NO	MM
8	8 170727M1_13	Standard	100.000	2.63	297744.313	37430.172	99.433	99.5	-0.5	NO	0.999	NO	MM

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

Printed: Friday, July 28, 2017 09:08:22 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.999583$, $r^2 = 0.999166$

Calibration curve: $1.87908 * x + 0.124036$

Response type: Internal Std (Ref 22), 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	170727M1_6	Standard	0.250	2.86	216.161	5089.555	0.531	0.2	-13.4	NO	0.999	NO	MM
2	2	170727M1_7	Standard	0.500	2.88	430.884	5384.093	1.000	0.5	-6.7	NO	0.999	NO	bb
3	3	170727M1_8	Standard	1.000	2.88	835.393	5220.958	2.000	1.0	-0.2	NO	0.999	NO	bb
4	4	170727M1_9	Standard	2.000	2.88	1775.403	5238.489	4.236	2.2	9.4	NO	0.999	NO	bb
5	5	170727M1_10	Standard	5.000	2.87	4544.860	5270.990	10.778	5.7	13.4	NO	0.999	NO	bb
6	6	170727M1_11	Standard	10.000	2.87	7856.220	5320.907	18.456	9.8	-2.4	NO	0.999	NO	bb
7	7	170727M1_12	Standard	50.000	2.88	35191.227	4634.577	94.915	50.4	0.9	NO	0.999	NO	bb
8	8	170727M1_13	Standard	100.000	2.88	64080.703	4302.573	186.170	99.0	-1.0	NO	0.999	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999556$, $r^2 = 0.999111$

Calibration curve: $1.45287 * x + 0.152663$

Response type: Internal Std (Ref 23), 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	170727M1_6	Standard	0.250	3.13	1523.459	18704.734	0.407	0.2	-29.9	NO	0.999	NO	bb
2	2	170727M1_7	Standard	0.500	3.14	3349.999	19036.875	0.880	0.5	0.1	NO	0.999	NO	bb
3	3	170727M1_8	Standard	1.000	3.13	6240.815	17953.455	1.738	1.1	9.1	NO	0.999	NO	bb
4	4	170727M1_9	Standard	2.000	3.14	12461.357	18121.797	3.438	2.3	13.1	NO	0.999	NO	bb
5	5	170727M1_10	Standard	5.000	3.13	30436.348	18473.457	8.238	5.6	11.3	NO	0.999	NO	bb
6	6	170727M1_11	Standard	10.000	3.13	54673.695	19237.354	14.210	9.7	-3.2	NO	0.999	NO	bb
7	7	170727M1_12	Standard	50.000	3.14	251307.063	17235.859	72.902	50.1	0.1	NO	0.999	NO	bb
8	8	170727M1_13	Standard	100.000	3.14	465411.344	16095.404	144.579	99.4	-0.6	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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Compound name: PFHpA

Correlation coefficient: $r = 0.999612$, $r^2 = 0.999224$

Calibration curve: $1.23238 * x + 0.112392$

Response type: Internal Std (Ref 24), 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 170727M1_6	Standard	0.250	3.40	1192.731	43063.793	0.346	0.2	-24.1	NO	0.999	NO	bb
2	2 170727M1_7	Standard	0.500	3.41	2552.004	45204.484	0.706	0.5	-3.7	NO	0.999	NO	bb
3	3 170727M1_8	Standard	1.000	3.40	5112.497	44567.395	1.434	1.1	7.2	NO	0.999	NO	bb
4	4 170727M1_9	Standard	2.000	3.40	9742.448	43767.641	2.782	2.2	8.3	NO	0.999	NO	bb
5	5 170727M1_10	Standard	5.000	3.40	25370.670	44912.559	7.061	5.6	12.8	NO	0.999	NO	bb
6	6 170727M1_11	Standard	10.000	3.40	42822.836	42955.043	12.462	10.0	0.2	NO	0.999	NO	bb
7	7 170727M1_12	Standard	50.000	3.40	198742.078	40157.961	61.863	50.1	0.2	NO	0.999	NO	bb
8	8 170727M1_13	Standard	100.000	3.41	369376.406	37780.906	122.210	99.1	-0.9	NO	0.999	NO	bb

Compound name: PFHxS

Correlation coefficient: $r = 0.999353$, $r^2 = 0.998707$

Calibration curve: $1.63949 * x + 0.27697$

Response type: Internal Std (Ref 25), 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 170727M1_6	Standard	0.250	3.47	96.020	3850.929	0.312	0.0	-91.5	NO	0.999	NO	MMX
2	2 170727M1_7	Standard	0.500	3.49	280.310	3764.178	0.931	0.4	-20.2	NO	0.999	NO	MM
3	3 170727M1_8	Standard	1.000	3.47	582.460	3967.092	1.835	1.0	-5.0	NO	0.999	NO	MM
4	4 170727M1_9	Standard	2.000	3.48	1200.082	3867.868	3.878	2.2	9.8	NO	0.999	NO	bb
5	5 170727M1_10	Standard	5.000	3.47	3145.393	3971.926	9.899	5.9	17.4	NO	0.999	NO	bb
6	6 170727M1_11	Standard	10.000	3.47	4979.415	3753.762	16.581	9.9	-0.6	NO	0.999	NO	bb
7	7 170727M1_12	Standard	50.000	3.47	23568.961	3626.088	81.248	49.4	-1.2	NO	0.999	NO	bb
8	8 170727M1_13	Standard	100.000	3.48	43767.965	3339.629	163.820	99.8	-0.2	NO	0.999	NO	MM

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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Compound name: PFOA

Correlation coefficient: $r = 0.999168$, $r^2 = 0.998337$

Calibration curve: $0.97941 * x + 0.169979$

Response type: Internal Std (Ref 26), 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	170727M1_6	Standard	0.250	3.60	1650.811	59865.938	0.345	0.2	-28.6	NO	0.998	NO	MM
2	2	170727M1_7	Standard	0.500	3.60	3196.288	59919.949	0.667	0.5	1.4	NO	0.998	NO	bb
3	3	170727M1_8	Standard	1.000	3.60	5374.311	55415.613	1.212	1.1	6.4	NO	0.998	NO	MM
4	4	170727M1_9	Standard	2.000	3.60	10962.036	59868.074	2.289	2.2	8.2	NO	0.998	NO	bb
5	5	170727M1_10	Standard	5.000	3.60	27432.125	58695.875	5.842	5.8	15.8	NO	0.998	NO	bb
6	6	170727M1_11	Standard	10.000	3.60	46826.324	61262.559	9.554	9.6	-4.2	NO	0.998	NO	bb
7	7	170727M1_12	Standard	50.000	3.60	221201.672	54632.066	50.612	51.5	3.0	NO	0.998	NO	bb
8	8	170727M1_13	Standard	100.000	3.60	393668.469	51197.766	96.115	98.0	-2.0	NO	0.998	NO	bb

Compound name: PFHpS

Correlation coefficient: $r = 0.999393$, $r^2 = 0.998786$

Calibration curve: $0.0865329 * x + 0.00638428$

Response type: Internal Std (Ref 26), 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	170727M1_6	Standard	0.250	3.65	127.082	59865.938	0.027	0.2	-6.9	NO	0.999	NO	MM
2	2	170727M1_7	Standard	0.500	3.65	220.129	59919.949	0.046	0.5	-8.6	NO	0.999	NO	bb
3	3	170727M1_8	Standard	1.000	3.66	482.301	55415.613	0.109	1.2	18.3	NO	0.999	NO	bb
4	4	170727M1_9	Standard	2.000	3.67	979.073	59868.074	0.204	2.3	14.4	NO	0.999	NO	bb
5	5	170727M1_10	Standard	5.000	3.66	2327.510	58695.875	0.496	5.7	13.1	NO	0.999	NO	bb
6	6	170727M1_11	Standard	10.000	3.66	4283.730	61262.559	0.874	10.0	0.3	NO	0.999	NO	bb
7	7	170727M1_12	Standard	50.000	3.66	18917.369	54632.066	4.328	49.9	-0.1	NO	0.999	NO	bb
8	8	170727M1_13	Standard	100.000	3.66	35100.156	51197.766	8.570	99.0	-1.0	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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Compound name: PFNA

Correlation coefficient: $r = 0.999135$, $r^2 = 0.998270$

Calibration curve: $1.06404 * x + 0.151731$

Response type: Internal Std (Ref 27), 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	170727M1_6	Standard	0.250	3.77	1418.062	51114.008	0.347	0.2	-26.7	NO	0.998	NO	bb
2	2	170727M1_7	Standard	0.500	3.78	2579.519	51529.840	0.626	0.4	-10.9	NO	0.998	NO	bd
3	3	170727M1_8	Standard	1.000	3.78	4744.847	46721.047	1.269	1.1	5.0	NO	0.998	NO	bb
4	4	170727M1_9	Standard	2.000	3.78	10626.438	50271.816	2.642	2.3	17.0	NO	0.998	NO	bb
5	5	170727M1_10	Standard	5.000	3.78	25077.686	48716.914	6.435	5.9	18.1	NO	0.998	NO	bb
6	6	170727M1_11	Standard	10.000	3.78	43029.453	49942.039	10.770	10.0	-0.2	NO	0.998	NO	bb
7	7	170727M1_12	Standard	50.000	3.78	190384.000	45725.195	52.046	48.8	-2.5	NO	0.998	NO	bb
8	8	170727M1_13	Standard	100.000	3.78	355715.094	41697.215	106.636	100.1	0.1	NO	0.998	NO	bb

Compound name: PFOSA

Correlation coefficient: $r = 0.999394$, $r^2 = 0.998789$

Calibration curve: $1.06848 * x + 0.223419$

Response type: Internal Std (Ref 28), 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	170727M1_6	Standard	0.250	3.79	250.989	11862.194	0.264	0.0	-84.6	NO	0.999	NO	bbX
2	2	170727M1_7	Standard	0.500	3.78	698.528	11221.438	0.778	0.5	3.8	NO	0.999	NO	bb
3	3	170727M1_8	Standard	1.000	3.78	996.158	11168.887	1.115	0.8	-16.6	NO	0.999	NO	bb
4	4	170727M1_9	Standard	2.000	3.79	2339.715	11376.144	2.571	2.2	9.8	NO	0.999	NO	bb
5	5	170727M1_10	Standard	5.000	3.79	5314.163	10985.451	6.047	5.5	9.0	NO	0.999	NO	bb
6	6	170727M1_11	Standard	10.000	3.79	9316.069	11154.329	10.440	9.6	-4.4	NO	0.999	NO	bb
7	7	170727M1_12	Standard	50.000	3.79	38523.172	9284.536	51.865	48.3	-3.3	NO	0.999	NO	bb
8	8	170727M1_13	Standard	100.000	3.79	69731.266	8012.283	108.788	101.6	1.6	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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Compound name: PFOS

Coefficient of Determination: $R^2 = 0.999093$

Calibration curve: $-0.000652924 * x^2 + 1.07342 * x + 0.0667583$

Response type: Internal Std (Ref 29), 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	170727M1_6	Standard	0.250	3.83	246.486	9351.420	0.329	0.2	-2.1	NO	0.999	NO	bb
2	2	170727M1_7	Standard	0.500	3.84	477.693	9058.424	0.659	0.6	10.4	NO	0.999	NO	bb
3	3	170727M1_8	Standard	1.000	3.83	942.525	9156.141	1.287	1.1	13.7	NO	0.999	NO	bb
4	4	170727M1_9	Standard	2.000	3.83	1601.983	8775.251	2.282	2.1	3.3	NO	0.999	NO	bb
5	5	170727M1_10	Standard	5.000	3.83	3988.879	8595.392	5.801	5.4	7.2	NO	0.999	NO	bb
6	6	170727M1_11	Standard	10.000	3.83	7578.040	9601.248	9.866	9.2	-8.2	NO	0.999	NO	bb
7	7	170727M1_12	Standard	50.000	3.83	34494.703	8226.863	52.412	50.3	0.6	NO	0.999	NO	bb
8	8	170727M1_13	Standard	100.000	3.83	63517.383	7877.385	100.791	99.9	-0.1	NO	0.999	NO	bb

Compound name: PFDA

Correlation coefficient: $r = 0.999716$, $r^2 = 0.999431$

Calibration curve: $1.23228 * x + 0.147279$

Response type: Internal Std (Ref 30), 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	170727M1_6	Standard	0.250	3.95	1756.771	52030.340	0.422	0.2	-10.8	NO	0.999	NO	bb
2	2	170727M1_7	Standard	0.500	3.95	3265.883	57299.637	0.712	0.5	-8.3	NO	0.999	NO	bb
3	3	170727M1_8	Standard	1.000	3.95	6418.463	54266.875	1.478	1.1	8.0	NO	0.999	NO	bb
4	4	170727M1_9	Standard	2.000	3.95	12635.267	56721.223	2.785	2.1	7.0	NO	0.999	NO	bb
5	5	170727M1_10	Standard	5.000	3.95	32229.738	60391.582	6.671	5.3	5.9	NO	0.999	NO	bb
6	6	170727M1_11	Standard	10.000	3.95	55974.184	56074.902	12.478	10.0	0.1	NO	0.999	NO	bb
7	7	170727M1_12	Standard	50.000	3.95	250603.625	52224.242	59.983	48.6	-2.9	NO	0.999	NO	bb
8	8	170727M1_13	Standard	100.000	3.95	494240.344	49584.195	124.596	101.0	1.0	NO	0.999	NO	bb

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999665$

Calibration curve: $0.00022775 * x^2 + 19.9472 * x + 0.0898127$

Response type: Internal Std (Ref 31), 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 170727M1_6	Standard	0.250	3.98	317.640	10411.437	4.958	0.2	-2.4	NO	1.000	NO	bd
2	2 170727M1_7	Standard	0.500	3.98	642.342	10929.026	9.551	0.5	-5.1	NO	1.000	NO	bb
3	3 170727M1_8	Standard	1.000	3.98	1324.910	11066.396	19.455	1.0	-2.9	NO	1.000	NO	db
4	4 170727M1_9	Standard	2.000	3.98	2637.473	10286.182	41.667	2.1	4.2	NO	1.000	NO	bb
5	5 170727M1_10	Standard	5.000	3.98	6964.148	10429.172	108.510	5.4	8.7	NO	1.000	NO	bb
6	6 170727M1_11	Standard	10.000	3.98	12691.619	10499.821	196.421	9.8	-1.6	NO	1.000	NO	bb
7	7 170727M1_12	Standard	50.000	3.98	57516.633	9475.892	986.340	49.4	-1.2	NO	1.000	NO	bb
8	8 170727M1_13	Standard	100.000	3.98	107056.234	8686.212	2002.788	100.3	0.3	NO	1.000	NO	bb

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.998879$

Calibration curve: $0.00266631 * x^2 + 15.3353 * x + 0.19972$

Response type: Internal Std (Ref 32), 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 170727M1_6	Standard	0.250	4.05	245.777	10212.053	3.911	0.2	-3.2	NO	0.999	NO	bb
2	2 170727M1_7	Standard	0.500	4.05	475.755	10386.629	7.443	0.5	-5.5	NO	0.999	NO	bb
3	3 170727M1_8	Standard	1.000	4.04	999.253	10419.146	15.585	1.0	0.3	NO	0.999	NO	bb
4	4 170727M1_9	Standard	2.000	4.04	1942.696	10087.810	31.294	2.0	1.3	NO	0.999	NO	bb
5	5 170727M1_10	Standard	5.000	4.04	5340.566	9616.642	90.244	5.9	17.3	NO	0.999	NO	bb
6	6 170727M1_11	Standard	10.000	4.04	10039.805	10994.689	148.387	9.6	-3.5	NO	0.999	NO	bb
7	7 170727M1_12	Standard	50.000	4.04	44465.141	9528.352	758.325	49.0	-2.0	NO	0.999	NO	bb
8	8 170727M1_13	Standard	100.000	4.04	86630.938	8978.488	1567.917	100.5	0.5	NO	0.999	NO	bb

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Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.999664$

Calibration curve: $-0.000726299 * x^2 + 0.648776 * x + 0.0756752$

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 170727M1_6	Standard	0.250	4.11	937.638	53937.508	0.217	0.2	-12.7	NO	1.000	NO	bb
2	2 170727M1_7	Standard	0.500	4.11	1856.364	57651.277	0.402	0.5	0.8	NO	1.000	NO	bb
3	3 170727M1_8	Standard	1.000	4.11	3381.308	53976.422	0.783	1.1	9.2	NO	1.000	NO	bb
4	4 170727M1_9	Standard	2.000	4.11	6702.618	60891.270	1.376	2.0	0.4	NO	1.000	NO	bb
5	5 170727M1_10	Standard	5.000	4.11	15902.064	56820.336	3.498	5.3	6.1	NO	1.000	NO	bb
6	6 170727M1_11	Standard	10.000	4.11	29007.316	58040.508	6.247	9.6	-3.8	NO	1.000	NO	bb
7	7 170727M1_12	Standard	50.000	4.11	135465.156	55210.184	30.670	50.0	-0.1	NO	1.000	NO	bb
8	8 170727M1_13	Standard	100.000	4.11	249990.313	54140.109	57.718	100.1	0.1	NO	1.000	NO	bb

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.998629$

Calibration curve: $-1.32982e-005 * x^2 + 0.0672039 * x + 0.00706292$

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 170727M1_6	Standard	0.250	4.16	86.766	53937.508	0.020	0.2	-22.4	NO	0.999	NO	MM
2	2 170727M1_7	Standard	0.500	4.16	172.141	57651.277	0.037	0.5	-9.9	NO	0.999	NO	MM
3	3 170727M1_8	Standard	1.000	4.15	388.743	53976.422	0.090	1.2	23.5	NO	0.999	NO	bb
4	4 170727M1_9	Standard	2.000	4.16	690.005	60891.270	0.142	2.0	0.2	NO	0.999	NO	bb
5	5 170727M1_10	Standard	5.000	4.16	1779.465	56820.336	0.391	5.7	14.5	NO	0.999	NO	bb
6	6 170727M1_11	Standard	10.000	4.16	3001.466	58040.508	0.646	9.5	-4.7	NO	0.999	NO	bb
7	7 170727M1_12	Standard	50.000	4.16	14488.668	55210.184	3.280	49.2	-1.6	NO	0.999	NO	bb
8	8 170727M1_13	Standard	100.000	4.16	28680.693	54140.109	6.622	100.4	0.4	NO	0.999	NO	bb

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Compound name: PFDaA

Coefficient of Determination: $R^2 = 0.997867$

Calibration curve: $0.000108363 * x^2 + 0.920945 * x + 0.119714$

Response type: Internal Std (Ref 34), 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 170727M1_6	Standard	0.250	4.28	107.979	4359.285	0.310	0.2	-17.5	NO	0.998	NO	MM
2	2 170727M1_7	Standard	0.500	4.27	187.376	4725.039	0.496	0.4	-18.4	NO	0.998	NO	MM
3	3 170727M1_8	Standard	1.000	4.28	387.923	4065.133	1.193	1.2	16.5	NO	0.998	NO	bd
4	4 170727M1_9	Standard	2.000	4.27	764.237	4580.176	2.086	2.1	6.7	NO	0.998	NO	bd
5	5 170727M1_10	Standard	5.000	4.27	1877.270	4125.885	5.687	6.0	20.8	NO	0.998	NO	bb
6	6 170727M1_11	Standard	10.000	4.27	2974.082	4254.241	8.739	9.3	-6.5	NO	0.998	NO	bb
7	7 170727M1_12	Standard	50.000	4.28	15238.717	4195.593	45.401	48.9	-2.2	NO	0.998	NO	bb
8	8 170727M1_13	Standard	100.000	4.28	31571.641	4206.188	93.825	100.6	0.6	NO	0.998	NO	bb

Compound name: PFTTrDA

Correlation coefficient: $r = 0.999051$, $r^2 = 0.998103$

Calibration curve: $8.39255 * x + 1.22744$

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 170727M1_6	Standard	0.250	4.43	949.985	4359.285	2.724	0.2	-28.7	NO	0.998	NO	bb
2	2 170727M1_7	Standard	0.500	4.44	2085.832	4725.039	5.518	0.5	2.2	NO	0.998	NO	bb
3	3 170727M1_8	Standard	1.000	4.44	3568.302	4065.133	10.972	1.2	16.1	NO	0.998	NO	bb
4	4 170727M1_9	Standard	2.000	4.44	6820.030	4580.176	18.613	2.1	3.6	NO	0.998	NO	bb
5	5 170727M1_10	Standard	5.000	4.44	16192.957	4125.885	49.059	5.7	14.0	NO	0.998	NO	bb
6	6 170727M1_11	Standard	10.000	4.44	27675.627	4254.241	81.318	9.5	-4.6	NO	0.998	NO	bb
7	7 170727M1_12	Standard	50.000	4.43	134870.219	4195.593	401.821	47.7	-4.5	NO	0.998	NO	bb
8	8 170727M1_13	Standard	100.000	4.44	288052.313	4206.188	856.037	101.9	1.9	NO	0.998	NO	bb

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Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999478$

Calibration curve: $-0.00104256 * x^2 + 1.20262 * x + 0.131178$

Response type: Internal Std (Ref 35), 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 170727M1_6	Standard	0.250	4.61	648.233	20264.934	0.400	0.2	-10.6	NO	0.999	NO	MM
2	2 170727M1_7	Standard	0.500	4.62	1160.108	20001.139	0.725	0.5	-1.2	NO	0.999	NO	MM
3	3 170727M1_8	Standard	1.000	4.61	1839.107	16096.357	1.428	1.1	8.0	NO	0.999	NO	bb
4	4 170727M1_9	Standard	2.000	4.61	3400.659	15958.571	2.664	2.1	5.5	NO	0.999	NO	bb
5	5 170727M1_10	Standard	5.000	4.61	7239.503	14196.442	6.374	5.2	4.3	NO	0.999	NO	bb
6	6 170727M1_11	Standard	10.000	4.61	13249.020	14711.492	11.257	9.3	-6.7	NO	0.999	NO	bb
7	7 170727M1_12	Standard	50.000	4.61	64597.203	13866.051	58.233	50.5	1.1	NO	0.999	NO	bb
8	8 170727M1_13	Standard	100.000	4.61	152598.266	17381.359	109.743	99.8	-0.2	NO	0.999	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.823368

RRF SD: 0.0102963, Relative SD: 1.25051

Response type: Internal Std (Ref 36), 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 170727M1_6	Standard	12.500	1.32	13153.632	15685.795	10.482	12.7	1.8	NO		NO	MM
2	2 170727M1_7	Standard	12.500	1.32	16229.239	19621.338	10.339	12.6	0.5	NO		NO	bb
3	3 170727M1_8	Standard	12.500	1.32	13631.894	16595.234	10.268	12.5	-0.2	NO		NO	bb
4	4 170727M1_9	Standard	12.500	1.33	17379.277	20821.438	10.434	12.7	1.4	NO		NO	bb
5	5 170727M1_10	Standard	12.500	1.32	13706.406	16931.240	10.119	12.3	-1.7	NO		NO	bb
6	6 170727M1_11	Standard	12.500	1.33	16386.203	19933.900	10.275	12.5	-0.2	NO		NO	bb
7	7 170727M1_12	Standard	12.500	1.33	15585.783	18930.279	10.292	12.5	-0.0	NO		NO	bb
8	8 170727M1_13	Standard	12.500	1.32	13303.807	16419.309	10.128	12.3	-1.6	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.264201

RRF SD: 0.00819028, Relative SD: 3.10002

Response type: Internal Std (Ref 37), 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	170727M1_6	Standard	12.500	2.63	42840.023	66777.414	3.208	12.1	-2.9	NO		NO	MM
2	2	170727M1_7	Standard	12.500	2.63	48017.777	68960.672	3.482	13.2	5.4	NO		NO	MM
3	3	170727M1_8	Standard	12.500	2.63	44080.910	65807.906	3.349	12.7	1.4	NO		NO	MM
4	4	170727M1_9	Standard	12.500	2.63	46122.711	68399.328	3.372	12.8	2.1	NO		NO	MM
5	5	170727M1_10	Standard	12.500	2.63	43342.047	68240.281	3.176	12.0	-3.8	NO		NO	MM
6	6	170727M1_11	Standard	12.500	2.63	44586.609	67807.313	3.288	12.4	-0.4	NO		NO	MM
7	7	170727M1_12	Standard	12.500	2.63	41776.168	62651.332	3.334	12.6	1.0	NO		NO	MM
8	8	170727M1_13	Standard	12.500	2.63	37430.172	58255.043	3.213	12.2	-2.7	NO		NO	MM

Compound name: 13C3-PFBS

Response Factor: 0.0306879

RRF SD: 0.000800336, Relative SD: 2.60798

Response type: Internal Std (Ref 37), 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	170727M1_6	Standard	12.500	2.87	5089.555	66777.414	0.381	12.4	-0.7	NO		NO	bb
2	2	170727M1_7	Standard	12.500	2.88	5384.093	68960.672	0.390	12.7	1.8	NO		NO	bb
3	3	170727M1_8	Standard	12.500	2.87	5220.958	65807.906	0.397	12.9	3.4	NO		NO	bb
4	4	170727M1_9	Standard	12.500	2.88	5238.489	68399.328	0.383	12.5	-0.2	NO		NO	bb
5	5	170727M1_10	Standard	12.500	2.88	5270.990	68240.281	0.386	12.6	0.7	NO		NO	bb
6	6	170727M1_11	Standard	12.500	2.88	5320.907	67807.313	0.392	12.8	2.3	NO		NO	bb
7	7	170727M1_12	Standard	12.500	2.88	4634.577	62651.332	0.370	12.1	-3.6	NO		NO	bb
8	8	170727M1_13	Standard	12.500	2.88	4302.573	58255.043	0.369	12.0	-3.7	NO		NO	bd

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Compound name: 13C2-PFHxA

Response Factor: 0.274967

RRF SD: 0.00571947, Relative SD: 2.08006

Response type: Internal Std (Ref 37), 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 170727M1_6	Standard	5.000	3.13	18704.734	66777.414	1.401	5.1	1.9	NO		NO	bb
2	2 170727M1_7	Standard	5.000	3.14	19036.875	68960.672	1.380	5.0	0.4	NO		NO	bb
3	3 170727M1_8	Standard	5.000	3.14	17953.455	65807.906	1.364	5.0	-0.8	NO		NO	bb
4	4 170727M1_9	Standard	5.000	3.13	18121.797	68399.328	1.325	4.8	-3.6	NO		NO	bb
5	5 170727M1_10	Standard	5.000	3.13	18473.457	68240.281	1.354	4.9	-1.5	NO		NO	bb
6	6 170727M1_11	Standard	5.000	3.14	19237.354	67807.313	1.419	5.2	3.2	NO		NO	bb
7	7 170727M1_12	Standard	5.000	3.13	17235.859	62651.332	1.376	5.0	0.1	NO		NO	bb
8	8 170727M1_13	Standard	5.000	3.14	16095.404	58255.043	1.381	5.0	0.5	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.259934

RRF SD: 0.00549928, Relative SD: 2.11565

Response type: Internal Std (Ref 37), 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 170727M1_6	Standard	12.500	3.40	43063.793	66777.414	3.224	12.4	-0.8	NO		NO	bb
2	2 170727M1_7	Standard	12.500	3.41	45204.484	68960.672	3.278	12.6	0.9	NO		NO	bb
3	3 170727M1_8	Standard	12.500	3.40	44567.395	65807.906	3.386	13.0	4.2	NO		NO	bb
4	4 170727M1_9	Standard	12.500	3.40	43767.641	68399.328	3.199	12.3	-1.5	NO		NO	bb
5	5 170727M1_10	Standard	12.500	3.40	44912.559	68240.281	3.291	12.7	1.3	NO		NO	bb
6	6 170727M1_11	Standard	12.500	3.40	42955.043	67807.313	3.167	12.2	-2.5	NO		NO	bb
7	7 170727M1_12	Standard	12.500	3.40	40157.961	62651.332	3.205	12.3	-1.4	NO		NO	bb
8	8 170727M1_13	Standard	12.500	3.40	37780.906	58255.043	3.243	12.5	-0.2	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.402115

RRF SD: 0.0114628, Relative SD: 2.85063

Response type: Internal Std (Ref 38), 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	170727M1_6	Standard	12.500	3.47	3850.929	9307.117	5.172	12.9	2.9	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.47	3764.178	9382.290	5.015	12.5	-0.2	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.47	3967.092	9569.128	5.182	12.9	3.1	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.47	3867.868	9630.841	5.020	12.5	-0.1	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.47	3971.926	9691.771	5.123	12.7	1.9	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.48	3753.762	9802.307	4.787	11.9	-4.8	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.47	3626.088	9340.884	4.852	12.1	-3.5	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.48	3339.629	8249.938	5.060	12.6	0.7	NO		NO	bb

Compound name: 13C2-PFOA

Response Factor: 1.04194

RRF SD: 0.027956, Relative SD: 2.68308

Response type: Internal Std (Ref 39), 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	170727M1_6	Standard	12.500	3.60	59865.938	56873.047	13.158	12.6	1.0	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.60	59919.949	56797.777	13.187	12.7	1.3	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.60	55415.613	53219.633	13.016	12.5	-0.1	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.60	59868.074	57690.141	12.972	12.4	-0.4	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.60	58695.875	59743.707	12.281	11.8	-5.7	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.60	61262.559	59019.414	12.975	12.5	-0.4	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.60	54632.066	52202.523	13.082	12.6	0.4	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.60	51197.766	47323.363	13.523	13.0	3.8	NO		NO	bb

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Compound name: 13C5-PFNA

Response Factor: 0.79204

RRF SD: 0.030586, Relative SD: 3.86168

Response type: Internal Std (Ref 40), 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	170727M1_6	Standard	12.500	3.78	51114.008	61088.508	10.459	13.2	5.6	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.78	51529.840	63082.246	10.211	12.9	3.1	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.78	46721.047	61854.789	9.442	11.9	-4.6	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.78	50271.816	63851.328	9.842	12.4	-0.6	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.78	48716.914	63831.750	9.540	12.0	-3.6	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.78	49942.039	61124.367	10.213	12.9	3.2	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.78	45725.195	57150.492	10.001	12.6	1.0	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.78	41697.215	54884.840	9.497	12.0	-4.1	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 0.174678

RRF SD: 0.0164608, Relative SD: 9.42349

Response type: Internal Std (Ref 43), 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	170727M1_6	Standard	12.500	3.78	11862.194	60651.570	2.445	14.0	12.0	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.79	11221.438	63780.648	2.199	12.6	0.7	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.78	11168.887	58640.852	2.381	13.6	9.0	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.79	11376.144	63482.531	2.240	12.8	2.6	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.79	10985.451	63993.852	2.146	12.3	-1.7	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.79	11154.328	61602.465	2.263	13.0	3.7	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.79	9284.536	58621.656	1.980	11.3	-9.3	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.79	8012.283	55207.715	1.814	10.4	-16.9	NO		NO	bb

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Compound name: 13C8-PFOS

Response Factor: 0.950628

RRF SD: 0.0413599, Relative SD: 4.3508

Response type: Internal Std (Ref 41), 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	170727M1_6	Standard	12.500	3.83	9351.420	9521.391	12.277	12.9	3.3	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.83	9058.424	9673.590	11.705	12.3	-1.5	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.83	9156.141	9654.983	11.854	12.5	-0.2	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.83	8775.251	9669.445	11.344	11.9	-4.5	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.83	8595.392	9633.635	11.153	11.7	-6.1	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.83	9601.248	9505.756	12.626	13.3	6.3	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.83	8226.863	8791.099	11.698	12.3	-1.6	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.83	7877.385	7936.742	12.407	13.1	4.4	NO		NO	bd

Compound name: 13C2-PFDA

Response Factor: 0.869042

RRF SD: 0.0152756, Relative SD: 1.75775

Response type: Internal Std (Ref 42), 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	170727M1_6	Standard	12.500	3.94	52030.340	59640.039	10.905	12.5	0.4	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.95	57299.637	64993.883	11.020	12.7	1.4	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.95	54266.875	64060.777	10.589	12.2	-2.5	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.95	56721.223	64542.324	10.985	12.6	1.1	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.95	60391.582	68173.781	11.073	12.7	1.9	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.95	56074.902	65514.582	10.699	12.3	-1.5	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.95	52224.242	61362.461	10.638	12.2	-2.1	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.95	49584.195	56375.438	10.994	12.7	1.2	NO		NO	bb

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Compound name: d3-N-MeFOSAA

Response Factor: 0.0129438

RRF SD: 0.000754884, Relative SD: 5.832

Response type: Internal Std (Ref 43), 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	170727M1_6	Standard	162.500	3.97	10411.437	60651.570	2.146	165.8	2.0	NO		NO	bb
2	2	170727M1_7	Standard	162.500	3.98	10929.026	63780.648	2.142	165.5	1.8	NO		NO	bb
3	3	170727M1_8	Standard	162.500	3.97	11066.396	58640.852	2.359	182.2	12.2	NO		NO	bb
4	4	170727M1_9	Standard	162.500	3.98	10286.182	63482.531	2.025	156.5	-3.7	NO		NO	bb
5	5	170727M1_10	Standard	162.500	3.98	10429.172	63993.852	2.037	157.4	-3.1	NO		NO	bb
6	6	170727M1_11	Standard	162.500	3.98	10499.821	61602.465	2.131	164.6	1.3	NO		NO	bb
7	7	170727M1_12	Standard	162.500	3.98	9475.892	58621.656	2.021	156.1	-3.9	NO		NO	bb
8	8	170727M1_13	Standard	162.500	3.98	8686.212	55207.715	1.967	151.9	-6.5	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.0127089

RRF SD: 0.000726057, Relative SD: 5.71297

Response type: Internal Std (Ref 43), 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	170727M1_6	Standard	162.500	4.04	10212.053	60651.570	2.105	165.6	1.9	NO		NO	bb
2	2	170727M1_7	Standard	162.500	4.04	10386.629	63780.648	2.036	160.2	-1.4	NO		NO	bb
3	3	170727M1_8	Standard	162.500	4.04	10419.146	58640.852	2.221	174.8	7.5	NO		NO	bb
4	4	170727M1_9	Standard	162.500	4.04	10087.810	63482.531	1.986	156.3	-3.8	NO		NO	bb
5	5	170727M1_10	Standard	162.500	4.04	9616.642	63993.852	1.878	147.8	-9.0	NO		NO	bb
6	6	170727M1_11	Standard	162.500	4.04	10994.689	61602.465	2.231	175.5	8.0	NO		NO	bb
7	7	170727M1_12	Standard	162.500	4.04	9528.352	58621.656	2.032	159.9	-1.6	NO		NO	bb
8	8	170727M1_13	Standard	162.500	4.04	8978.488	55207.715	2.033	160.0	-1.6	NO		NO	bb

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Compound name: 13C2-PFUnA

Response Factor: 0.928174

RRF SD: 0.0335518, Relative SD: 3.61482

Response type: Internal Std (Ref 43), 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 170727M1_6	Standard	12.500	4.11	53937.508	60651.570	11.116	12.0	-4.2	NO		NO	bb
2	2 170727M1_7	Standard	12.500	4.11	57651.277	63780.648	11.299	12.2	-2.6	NO		NO	bb
3	3 170727M1_8	Standard	12.500	4.11	53976.422	58640.852	11.506	12.4	-0.8	NO		NO	bb
4	4 170727M1_9	Standard	12.500	4.11	60891.270	63482.531	11.990	12.9	3.3	NO		NO	bb
5	5 170727M1_10	Standard	12.500	4.12	56820.336	63993.852	11.099	12.0	-4.3	NO		NO	bb
6	6 170727M1_11	Standard	12.500	4.12	58040.508	61602.465	11.777	12.7	1.5	NO		NO	bb
7	7 170727M1_12	Standard	12.500	4.11	55210.184	58621.656	11.773	12.7	1.5	NO		NO	bb
8	8 170727M1_13	Standard	12.500	4.11	54140.109	55207.715	12.258	13.2	5.7	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.07109

RRF SD: 0.00354453, Relative SD: 4.98597

Response type: Internal Std (Ref 43), 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 170727M1_6	Standard	12.500	4.26	4359.285	60651.570	0.898	12.6	1.1	NO		NO	bb
2	2 170727M1_7	Standard	12.500	4.27	4725.039	63780.648	0.926	13.0	4.2	NO		NO	bb
3	3 170727M1_8	Standard	12.500	4.27	4065.133	58640.852	0.867	12.2	-2.5	NO		NO	bb
4	4 170727M1_9	Standard	12.500	4.27	4580.176	63482.531	0.902	12.7	1.5	NO		NO	bd
5	5 170727M1_10	Standard	12.500	4.27	4125.885	63993.852	0.806	11.3	-9.3	NO		NO	bb
6	6 170727M1_11	Standard	12.500	4.27	4254.241	61602.465	0.863	12.1	-2.9	NO		NO	bb
7	7 170727M1_12	Standard	12.500	4.27	4195.593	58621.656	0.895	12.6	0.7	NO		NO	bb
8	8 170727M1_13	Standard	12.500	4.27	4206.188	55207.715	0.952	13.4	7.2	NO		NO	bb

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Compound name: 13C2-PFTeDA

Response Factor: 0.273202

RRF SD: 0.0426255, Relative SD: 15.6022

Response type: Internal Std (Ref 43), 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 170727M1_6	Standard	12.500	4.61	20264.934	60651.570	4.177	15.3	22.3	NO		NO	bb
2	2 170727M1_7	Standard	12.500	4.61	20001.139	63780.648	3.920	14.3	14.8	NO		NO	bb
3	3 170727M1_8	Standard	12.500	4.61	16096.357	58640.852	3.431	12.6	0.5	NO		NO	bb
4	4 170727M1_9	Standard	12.500	4.61	15958.571	63482.531	3.142	11.5	-8.0	NO		NO	bb
5	5 170727M1_10	Standard	12.500	4.61	14196.442	63993.852	2.773	10.2	-18.8	NO		NO	bb
6	6 170727M1_11	Standard	12.500	4.61	14711.492	61602.465	2.985	10.9	-12.6	NO		NO	bb
7	7 170727M1_12	Standard	12.500	4.61	13866.051	58621.656	2.957	10.8	-13.4	NO		NO	bb
8	8 170727M1_13	Standard	12.500	4.62	17381.359	55207.715	3.935	14.4	15.2	NO		NO	bb

Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 8.3925e-017, Relative SD: 8.3925e-015

Response type: Internal Std (Ref 36), 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 170727M1_6	Standard	12.500	1.31	15685.795	15685.795	12.500	12.5	0.0	NO		NO	bb
2	2 170727M1_7	Standard	12.500	1.32	19621.338	19621.338	12.500	12.5	0.0	NO		NO	bb
3	3 170727M1_8	Standard	12.500	1.32	16595.234	16595.234	12.500	12.5	0.0	NO		NO	bb
4	4 170727M1_9	Standard	12.500	1.32	20821.438	20821.438	12.500	12.5	0.0	NO		NO	bb
5	5 170727M1_10	Standard	12.500	1.32	16931.240	16931.240	12.500	12.5	0.0	NO		NO	bb
6	6 170727M1_11	Standard	12.500	1.32	19933.900	19933.900	12.500	12.5	0.0	NO		NO	bb
7	7 170727M1_12	Standard	12.500	1.32	18930.279	18930.279	12.500	12.5	0.0	NO		NO	bb
8	8 170727M1_13	Standard	12.500	1.32	16419.309	16419.309	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), 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 170727M1_6	Standard	5.000	3.13	66777.414	66777.414	5.000	5.0	0.0	NO		NO	bb
2	2 170727M1_7	Standard	5.000	3.13	68960.672	68960.672	5.000	5.0	0.0	NO		NO	bb
3	3 170727M1_8	Standard	5.000	3.13	65807.906	65807.906	5.000	5.0	0.0	NO		NO	bb
4	4 170727M1_9	Standard	5.000	3.14	68399.328	68399.328	5.000	5.0	0.0	NO		NO	bb
5	5 170727M1_10	Standard	5.000	3.14	68240.281	68240.281	5.000	5.0	0.0	NO		NO	bb
6	6 170727M1_11	Standard	5.000	3.14	67807.313	67807.313	5.000	5.0	0.0	NO		NO	bb
7	7 170727M1_12	Standard	5.000	3.13	62651.332	62651.332	5.000	5.0	0.0	NO		NO	bb
8	8 170727M1_13	Standard	5.000	3.14	58255.043	58255.043	5.000	5.0	0.0	NO		NO	bb

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 8.3925e-017, Relative SD: 8.3925e-015

Response type: Internal Std (Ref 38), 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 170727M1_6	Standard	12.500	3.47	9307.117	9307.117	12.500	12.5	0.0	NO		NO	bb
2	2 170727M1_7	Standard	12.500	3.47	9382.290	9382.290	12.500	12.5	0.0	NO		NO	bb
3	3 170727M1_8	Standard	12.500	3.47	9569.128	9569.128	12.500	12.5	0.0	NO		NO	bb
4	4 170727M1_9	Standard	12.500	3.48	9630.841	9630.841	12.500	12.5	0.0	NO		NO	bb
5	5 170727M1_10	Standard	12.500	3.47	9691.771	9691.771	12.500	12.5	0.0	NO		NO	bb
6	6 170727M1_11	Standard	12.500	3.47	9802.307	9802.307	12.500	12.5	0.0	NO		NO	bb
7	7 170727M1_12	Standard	12.500	3.47	9340.884	9340.884	12.500	12.5	0.0	NO		NO	bb
8	8 170727M1_13	Standard	12.500	3.47	8249.938	8249.938	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 1.18688e-016, Relative SD: 1.18688e-014

Response type: Internal Std (Ref 39), 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	170727M1_6	Standard	12.500	3.60	56873.047	56873.047	12.500	12.5	0.0	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.60	56797.777	56797.777	12.500	12.5	0.0	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.60	53219.633	53219.633	12.500	12.5	0.0	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.60	57690.141	57690.141	12.500	12.5	0.0	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.60	59743.707	59743.707	12.500	12.5	0.0	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.60	59019.414	59019.414	12.500	12.5	0.0	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.60	52202.523	52202.523	12.500	12.5	0.0	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.60	47323.363	47323.363	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 40), 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	170727M1_6	Standard	12.500	3.78	61088.508	61088.508	12.500	12.5	0.0	NO		NO	bb
2	2	170727M1_7	Standard	12.500	3.78	63082.246	63082.246	12.500	12.5	0.0	NO		NO	bb
3	3	170727M1_8	Standard	12.500	3.78	61854.789	61854.789	12.500	12.5	0.0	NO		NO	bb
4	4	170727M1_9	Standard	12.500	3.78	63851.328	63851.328	12.500	12.5	0.0	NO		NO	bb
5	5	170727M1_10	Standard	12.500	3.78	63831.750	63831.750	12.500	12.5	0.0	NO		NO	bb
6	6	170727M1_11	Standard	12.500	3.78	61124.367	61124.367	12.500	12.5	0.0	NO		NO	bb
7	7	170727M1_12	Standard	12.500	3.78	57150.492	57150.492	12.500	12.5	0.0	NO		NO	bb
8	8	170727M1_13	Standard	12.500	3.78	54884.840	54884.840	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 8.3925e-017, Relative SD: 8.3925e-015

Response type: Internal Std (Ref 41), 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 170727M1_6	Standard	12.500	3.83	9521.391	9521.391	12.500	12.5	0.0	NO		NO	bb
2	2 170727M1_7	Standard	12.500	3.83	9673.590	9673.590	12.500	12.5	0.0	NO		NO	bb
3	3 170727M1_8	Standard	12.500	3.83	9654.983	9654.983	12.500	12.5	0.0	NO		NO	bb
4	4 170727M1_9	Standard	12.500	3.83	9669.445	9669.445	12.500	12.5	0.0	NO		NO	bb
5	5 170727M1_10	Standard	12.500	3.83	9633.635	9633.635	12.500	12.5	0.0	NO		NO	bb
6	6 170727M1_11	Standard	12.500	3.83	9505.756	9505.756	12.500	12.5	0.0	NO		NO	bb
7	7 170727M1_12	Standard	12.500	3.83	8791.099	8791.099	12.500	12.5	0.0	NO		NO	bb
8	8 170727M1_13	Standard	12.500	3.84	7936.742	7936.742	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 1.25887e-016, Relative SD: 1.25887e-014

Response type: Internal Std (Ref 42), 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 170727M1_6	Standard	12.500	3.94	59640.039	59640.039	12.500	12.5	0.0	NO		NO	bb
2	2 170727M1_7	Standard	12.500	3.95	64993.883	64993.883	12.500	12.5	0.0	NO		NO	bb
3	3 170727M1_8	Standard	12.500	3.95	64060.777	64060.777	12.500	12.5	0.0	NO		NO	bb
4	4 170727M1_9	Standard	12.500	3.95	64542.324	64542.324	12.500	12.5	0.0	NO		NO	bb
5	5 170727M1_10	Standard	12.500	3.95	68173.781	68173.781	12.500	12.5	0.0	NO		NO	bb
6	6 170727M1_11	Standard	12.500	3.95	65514.582	65514.582	12.500	12.5	0.0	NO		NO	bb
7	7 170727M1_12	Standard	12.500	3.95	61362.461	61362.461	12.500	12.5	0.0	NO		NO	bb
8	8 170727M1_13	Standard	12.500	3.95	56375.438	56375.438	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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Compound name: 13C7-PFUnA

Response Factor: 1

RRF SD: 1.02787e-016, Relative SD: 1.02787e-014

Response type: Internal Std (Ref 43), 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 170727M1_6	Standard	12.500	4.11	60651.570	60651.570	12.500	12.5	0.0	NO		NO	bb
2	2 170727M1_7	Standard	12.500	4.11	63780.648	63780.648	12.500	12.5	0.0	NO		NO	bb
3	3 170727M1_8	Standard	12.500	4.11	58640.852	58640.852	12.500	12.5	0.0	NO		NO	bb
4	4 170727M1_9	Standard	12.500	4.11	63482.531	63482.531	12.500	12.5	0.0	NO		NO	bb
5	5 170727M1_10	Standard	12.500	4.11	63993.852	63993.852	12.500	12.5	0.0	NO		NO	bb
6	6 170727M1_11	Standard	12.500	4.11	61602.465	61602.465	12.500	12.5	0.0	NO		NO	bb
7	7 170727M1_12	Standard	12.500	4.11	58621.656	58621.656	12.500	12.5	0.0	NO		NO	bb
8	8 170727M1_13	Standard	12.500	4.11	55207.715	55207.715	12.500	12.5	0.0	NO		NO	bb

Dataset: Untitled

Last Altered: Friday, July 28, 2017 09:09:44 Pacific Daylight Time

Printed: Friday, July 28, 2017 09:10:05 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170727M1_5	IPA	27-Jul-17	11:37:28
2	170727M1_6	ST170727M1-1 PFC CS-2 17G2704	27-Jul-17	11:48:12
3	170727M1_7	ST170727M1-2 PFC CS-1 17G2705	27-Jul-17	11:58:50
4	170727M1_8	ST170727M1-3 PFC CS0 17G2706	27-Jul-17	12:09:28
5	170727M1_9	ST170727M1-4 PFC CS1 17G2707	27-Jul-17	12:20:15
6	170727M1_10	ST170727M1-5 PFC CS2 17G2708	27-Jul-17	12:30:53
7	170727M1_11	ST170727M1-6 PFC CS3 17G2709	27-Jul-17	12:41:40
8	170727M1_12	ST170727M1-7 PFC CS4 17G2729	27-Jul-17	12:52:18
9	170727M1_13	ST170727M1-8 PFC CS5 17G2710	27-Jul-17	13:02:56
10	170727M1_14	IPA	27-Jul-17	13:13:35
11	170727M1_15	SS170727M1-1 PFC SSS 17G2703	27-Jul-17	13:24:13
12	170727M1_16	IPA	27-Jul-17	13:34:52

Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

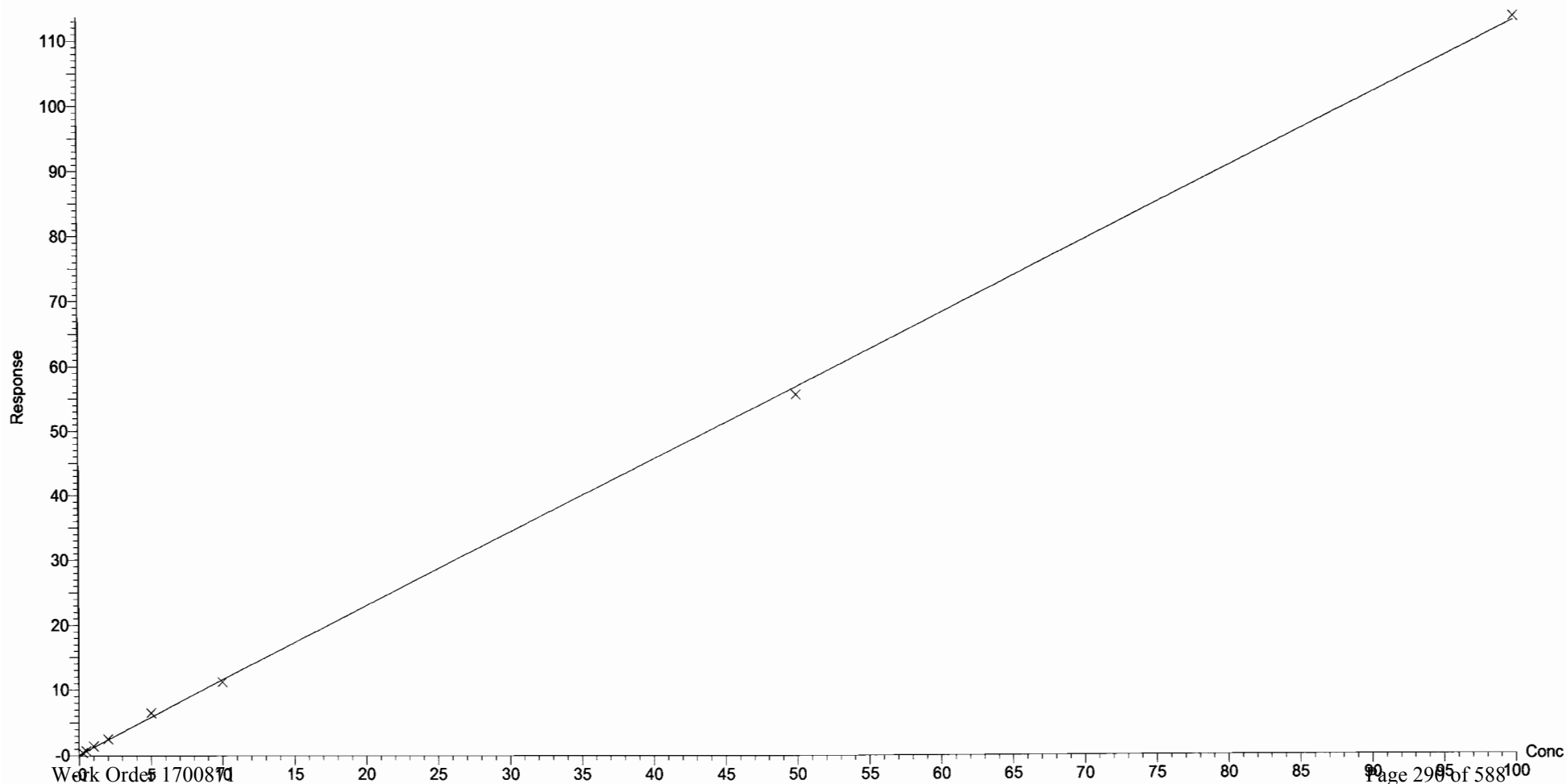
Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999016$

Calibration curve: $-0.000148745 * x^2 + 1.144 * x + 0.0934277$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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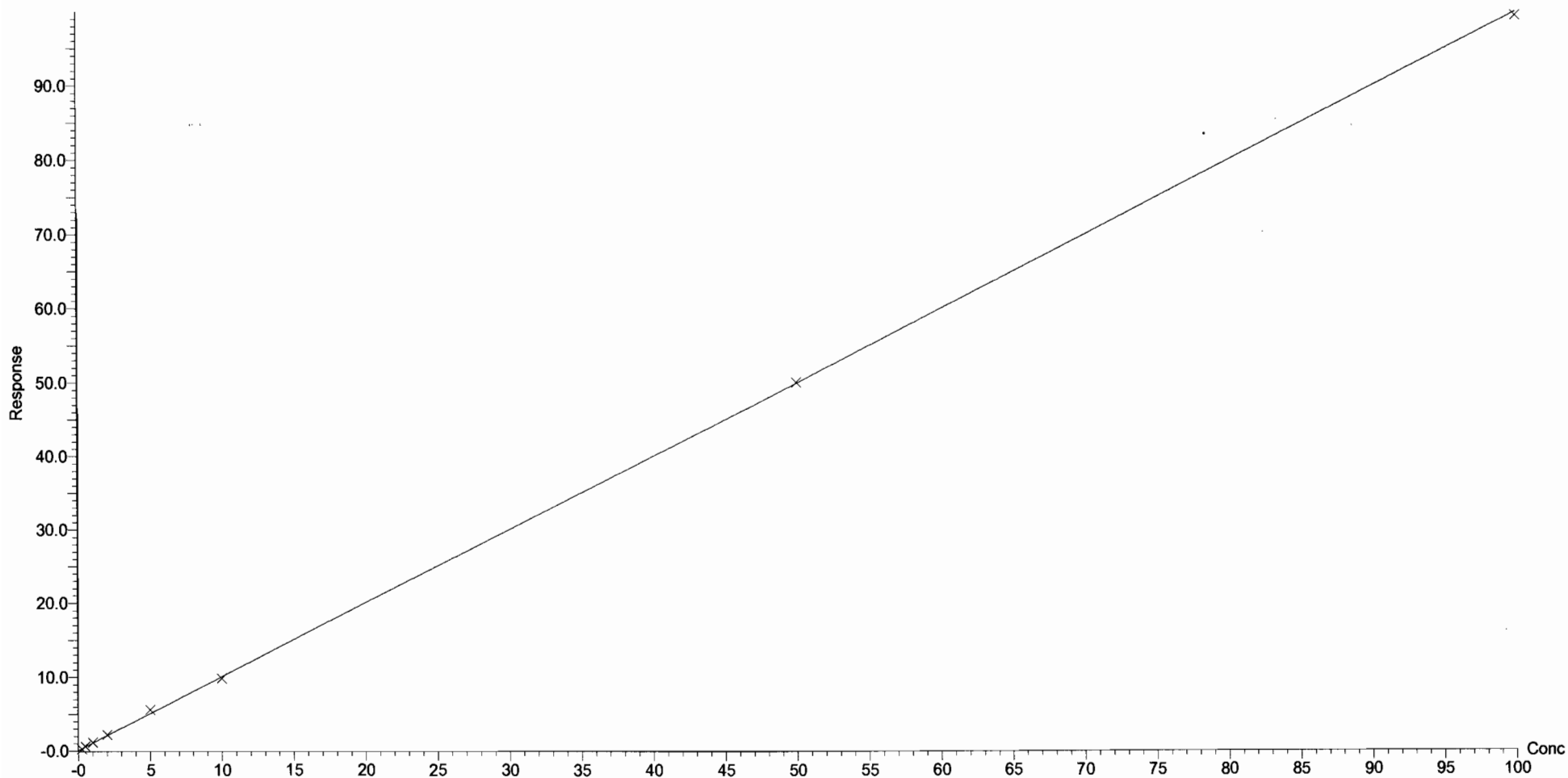
Compound name: PFPeA

Correlation coefficient: $r = 0.999743$, $r^2 = 0.999486$

Calibration curve: $0.998566 * x + 0.0863273$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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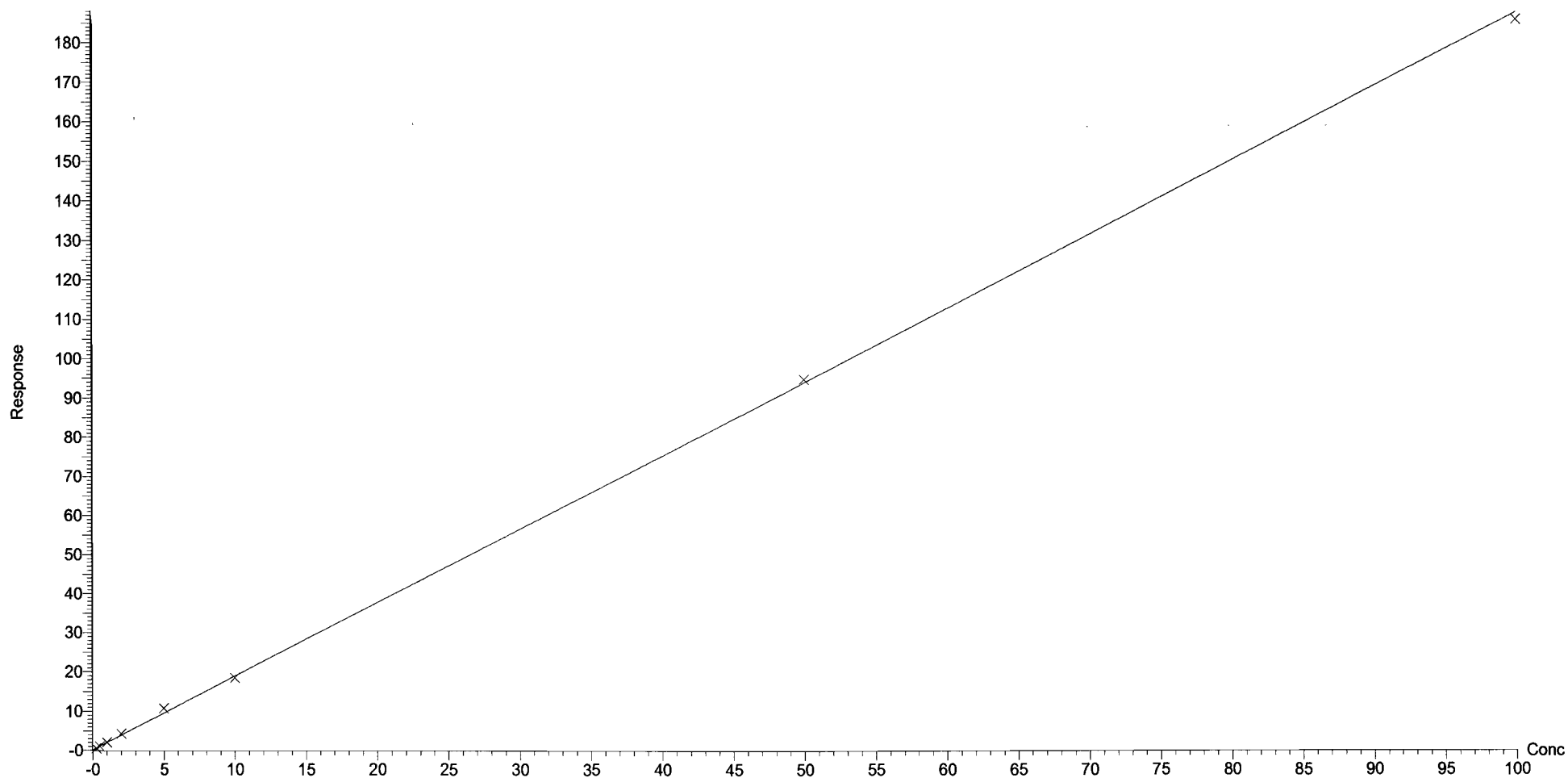
Compound name: PFBS

Correlation coefficient: $r = 0.999583$, $r^2 = 0.999166$

Calibration curve: $1.87908 * x + 0.124036$

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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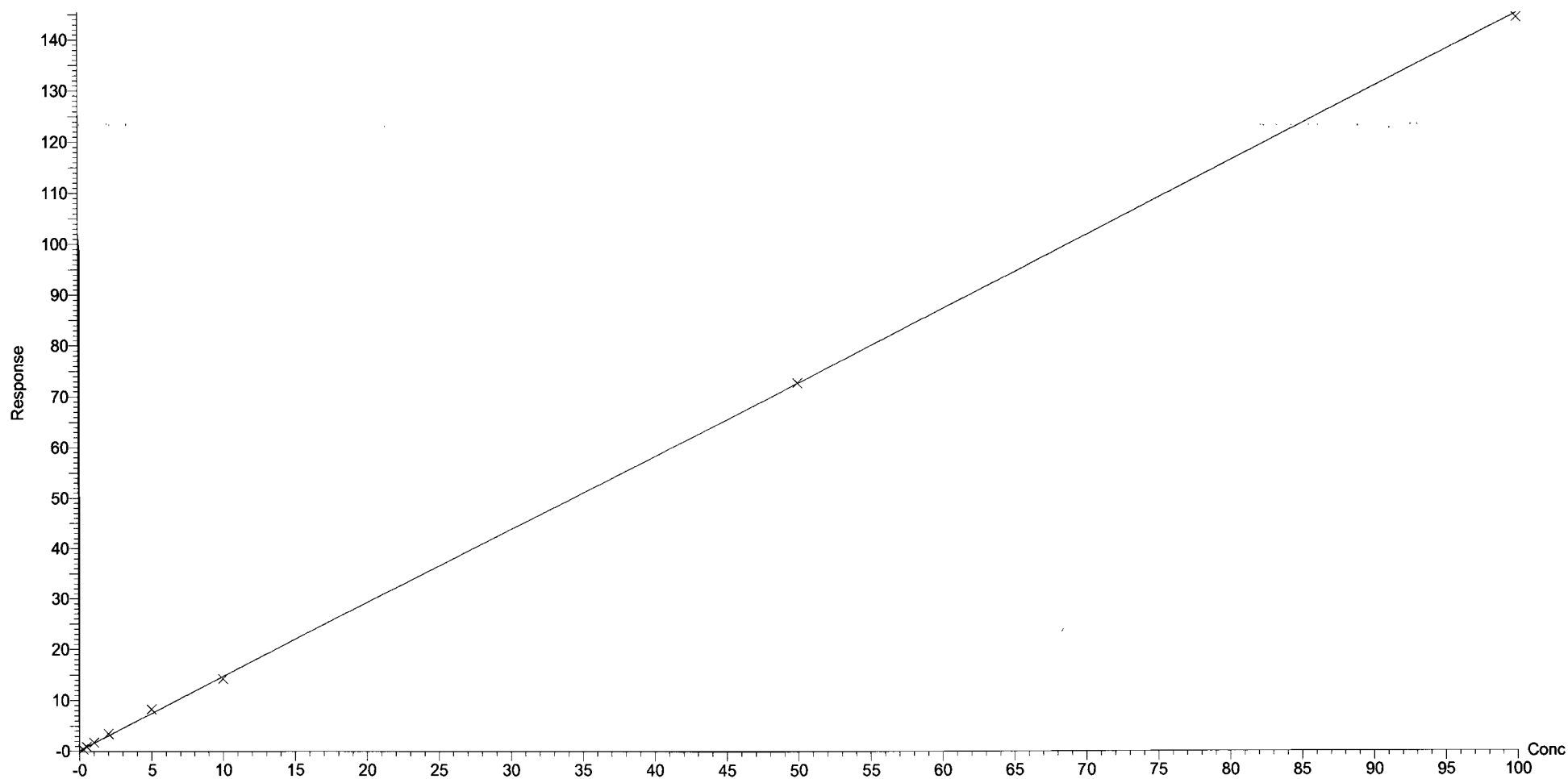
Compound name: PFHxA

Correlation coefficient: $r = 0.999556$, $r^2 = 0.999111$

Calibration curve: $1.45287 * x + 0.152663$

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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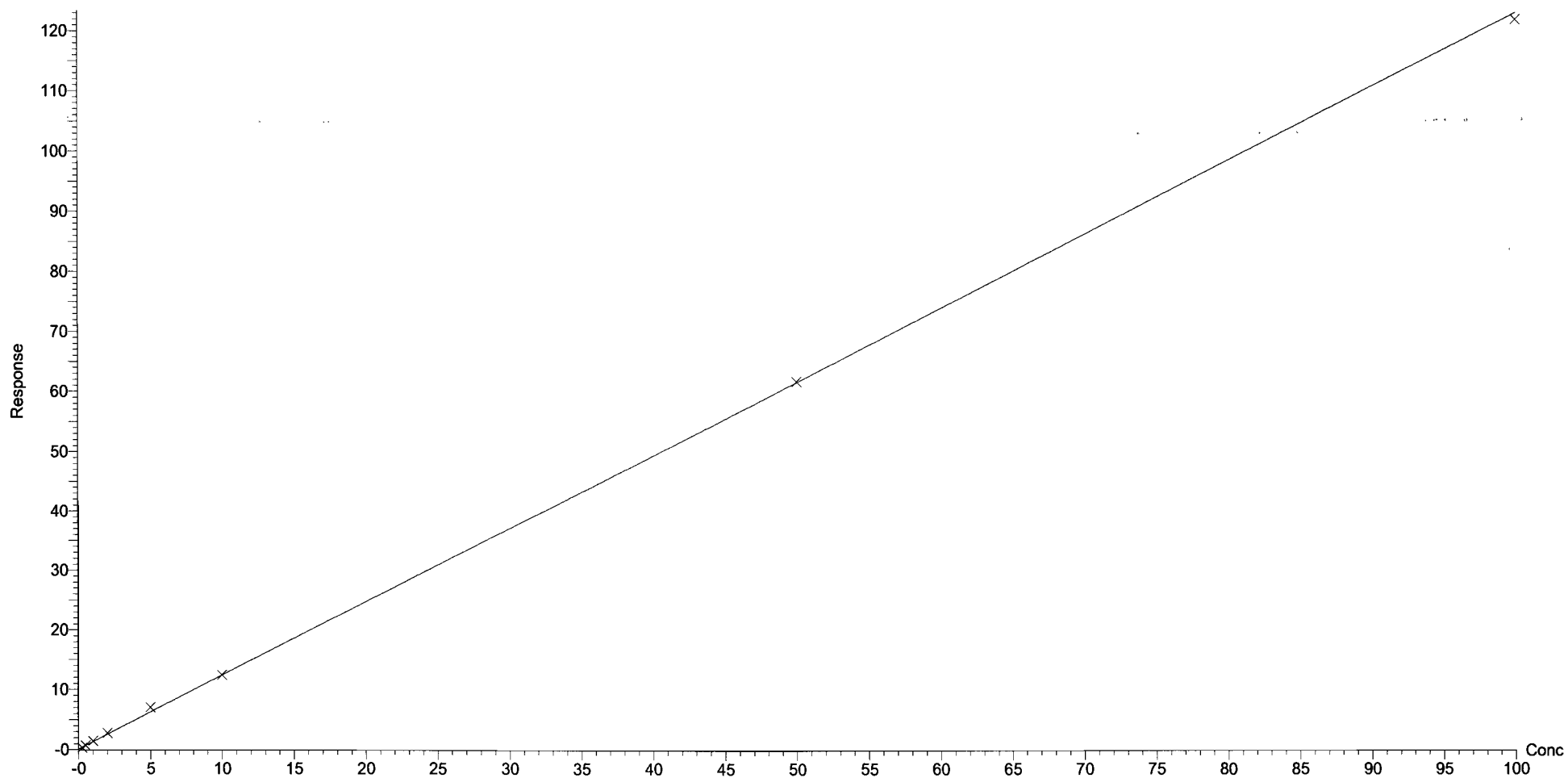
Compound name: PFHpA

Correlation coefficient: $r = 0.999612$, $r^2 = 0.999224$

Calibration curve: $1.23238 * x + 0.112392$

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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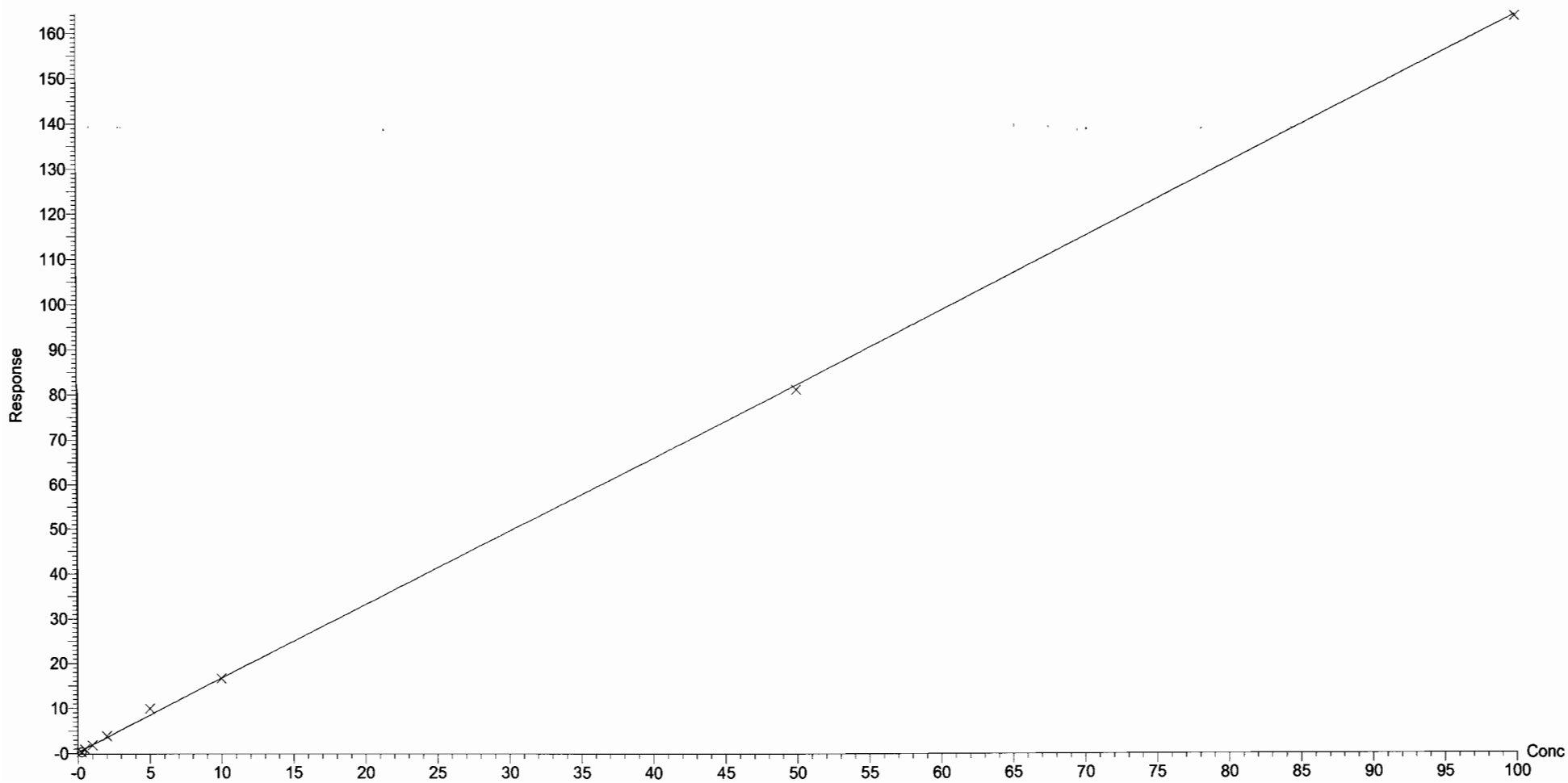
Compound name: PFHxS

Correlation coefficient: $r = 0.999353$, $r^2 = 0.998707$

Calibration curve: $1.63949 \cdot x + 0.27697$

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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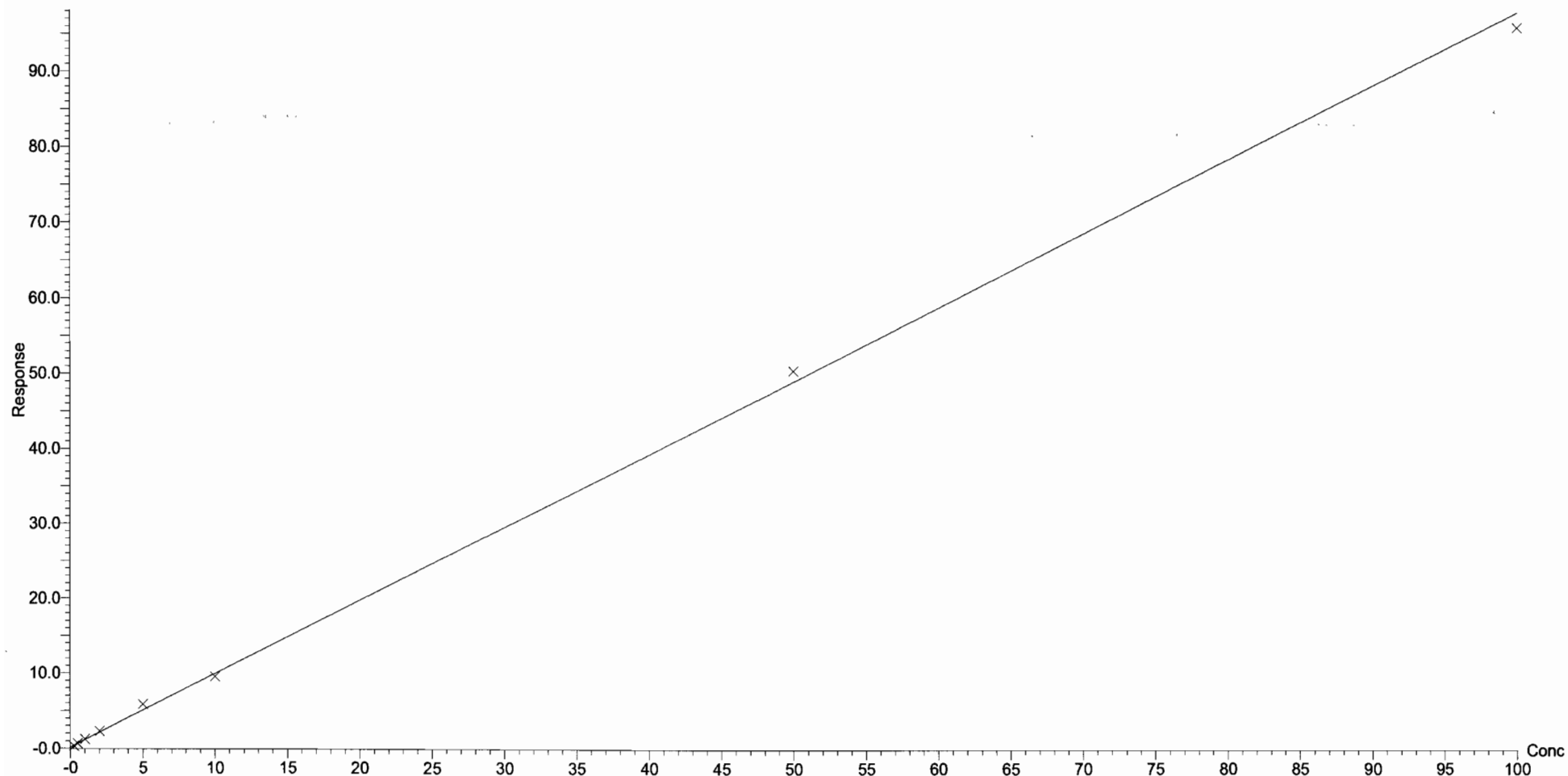
Compound name: PFOA

Correlation coefficient: $r = 0.999168$, $r^2 = 0.998337$

Calibration curve: $0.97941 * x + 0.169979$

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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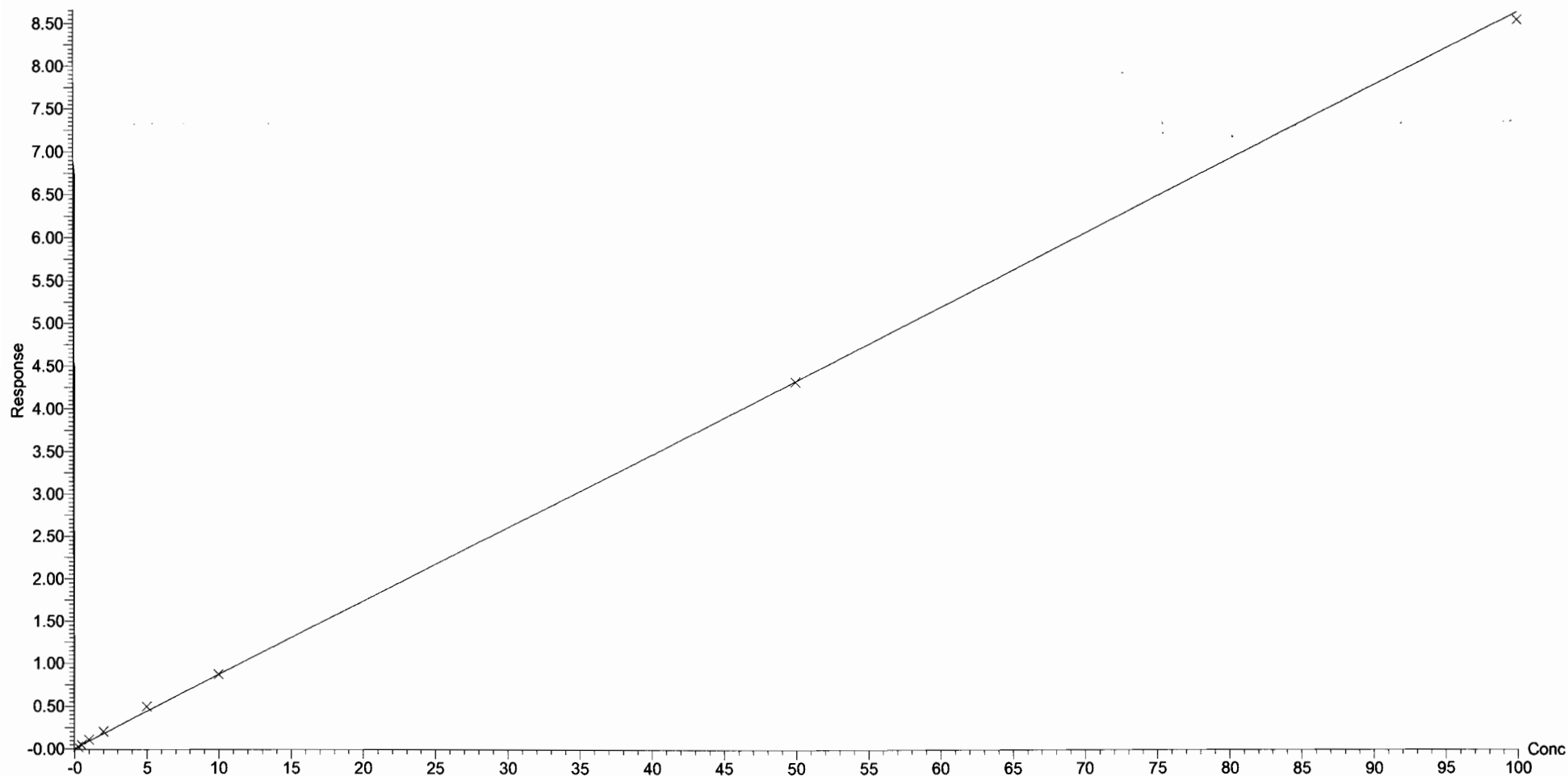
Compound name: PFHpS

Correlation coefficient: $r = 0.999393$, $r^2 = 0.998786$

Calibration curve: $0.0865329 * x + 0.00638428$

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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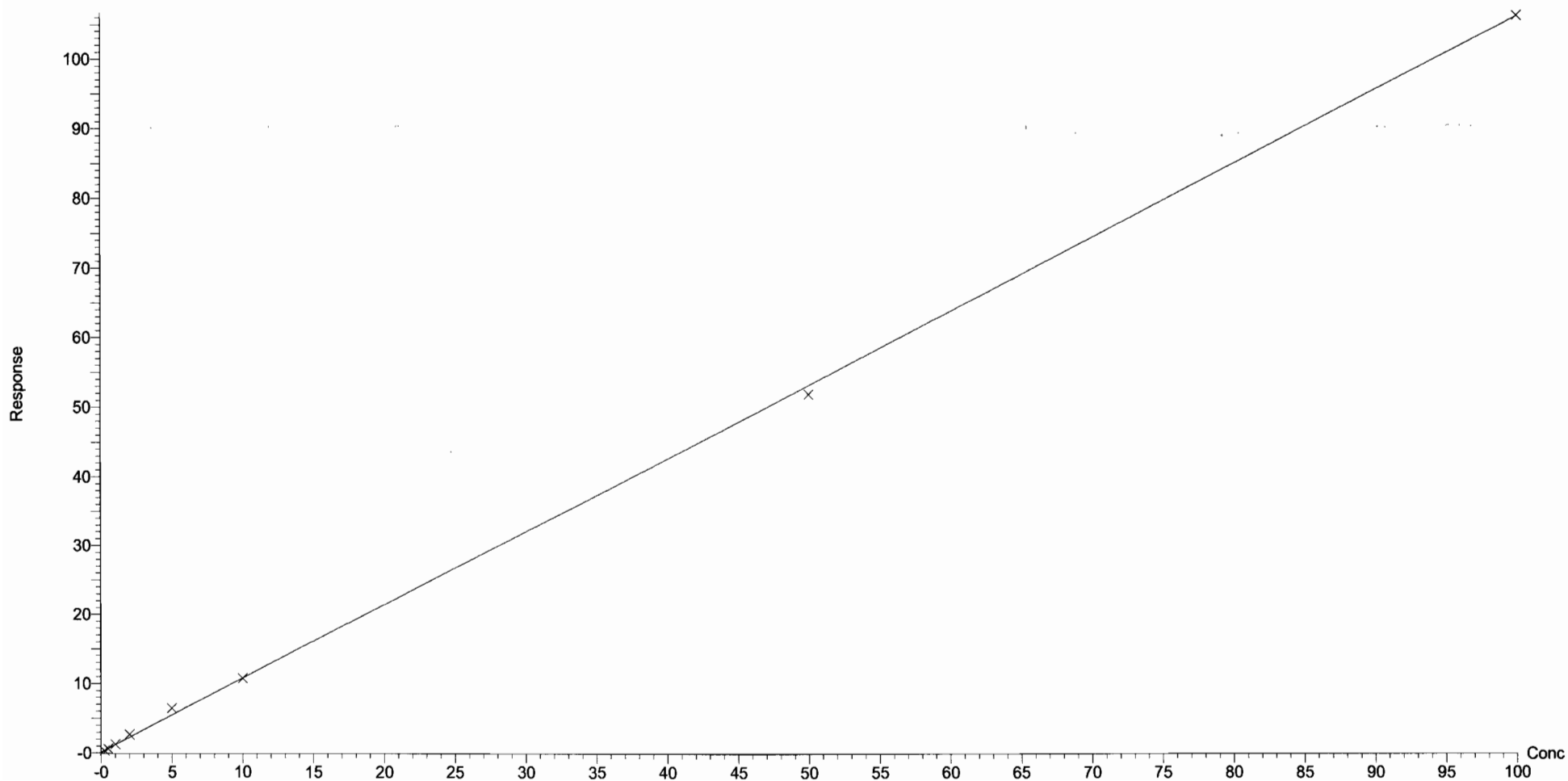
Compound name: PFNA

Correlation coefficient: $r = 0.999135$, $r^2 = 0.998270$

Calibration curve: $1.06404 * x + 0.151731$

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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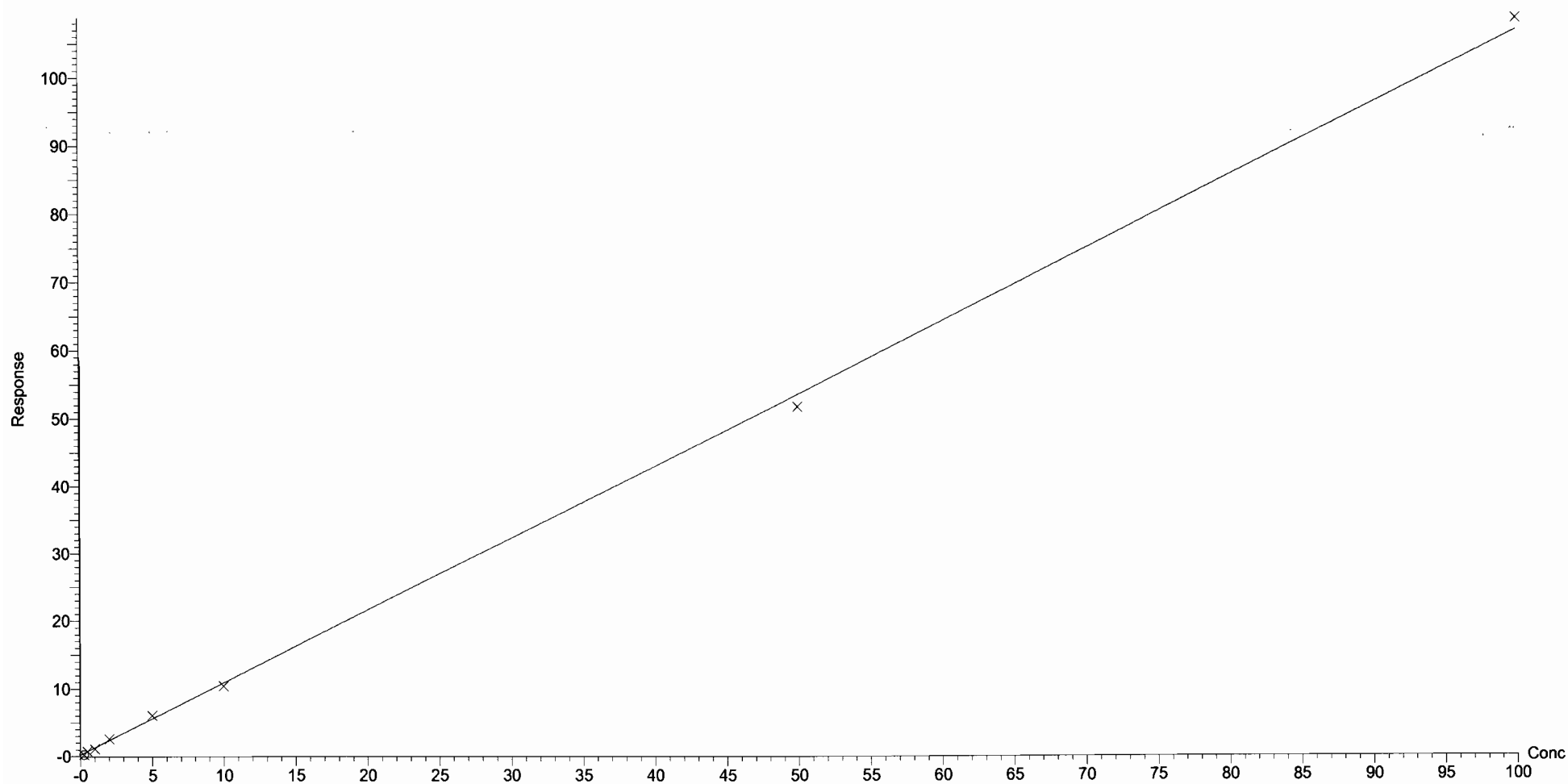
Compound name: PFOSA

Correlation coefficient: $r = 0.999394$, $r^2 = 0.998789$

Calibration curve: $1.06848 * x + 0.223419$

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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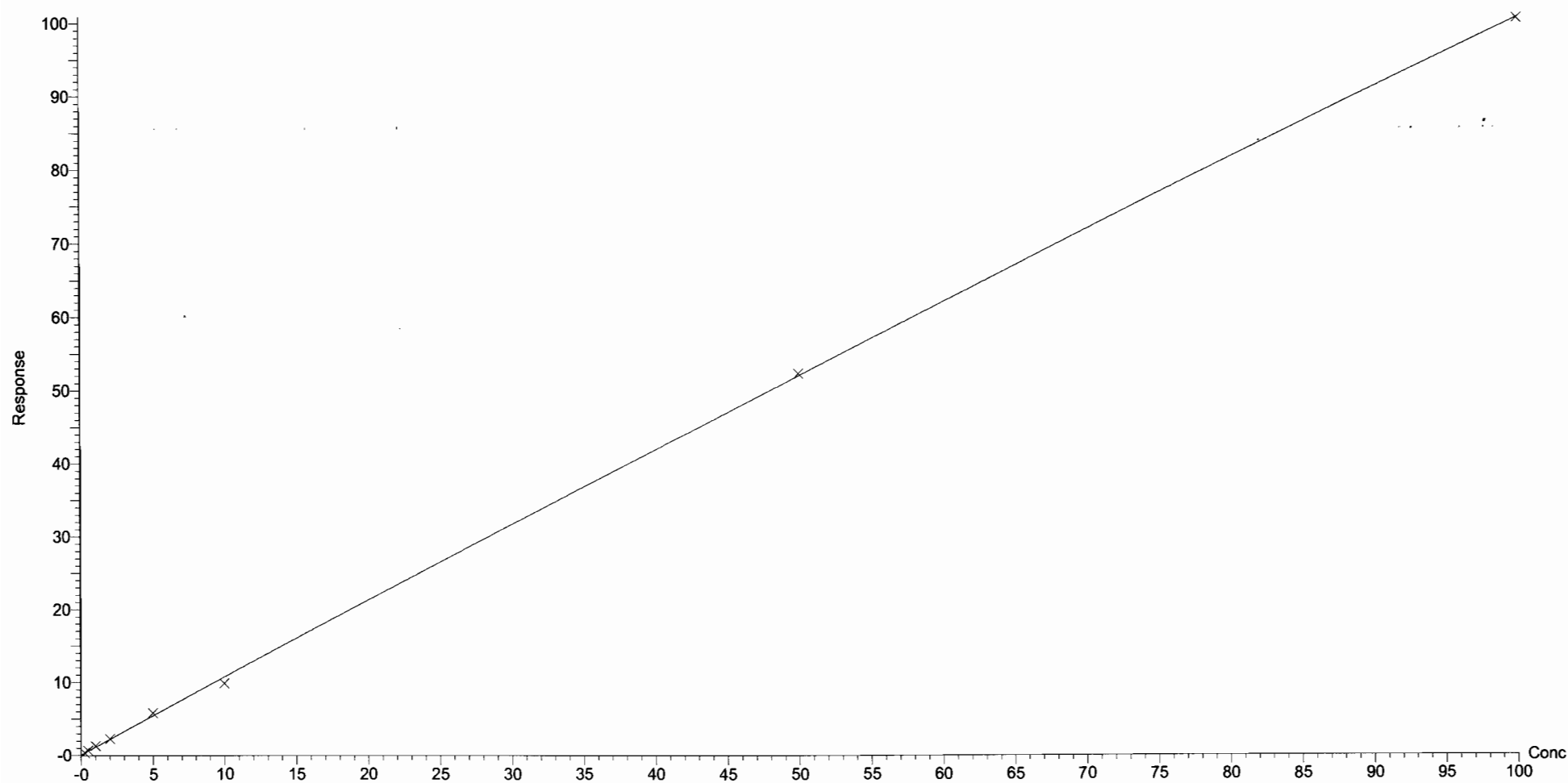
Compound name: PFOS

Coefficient of Determination: $R^2 = 0.999093$

Calibration curve: $-0.000652924 * x^2 + 1.07342 * x + 0.0667583$

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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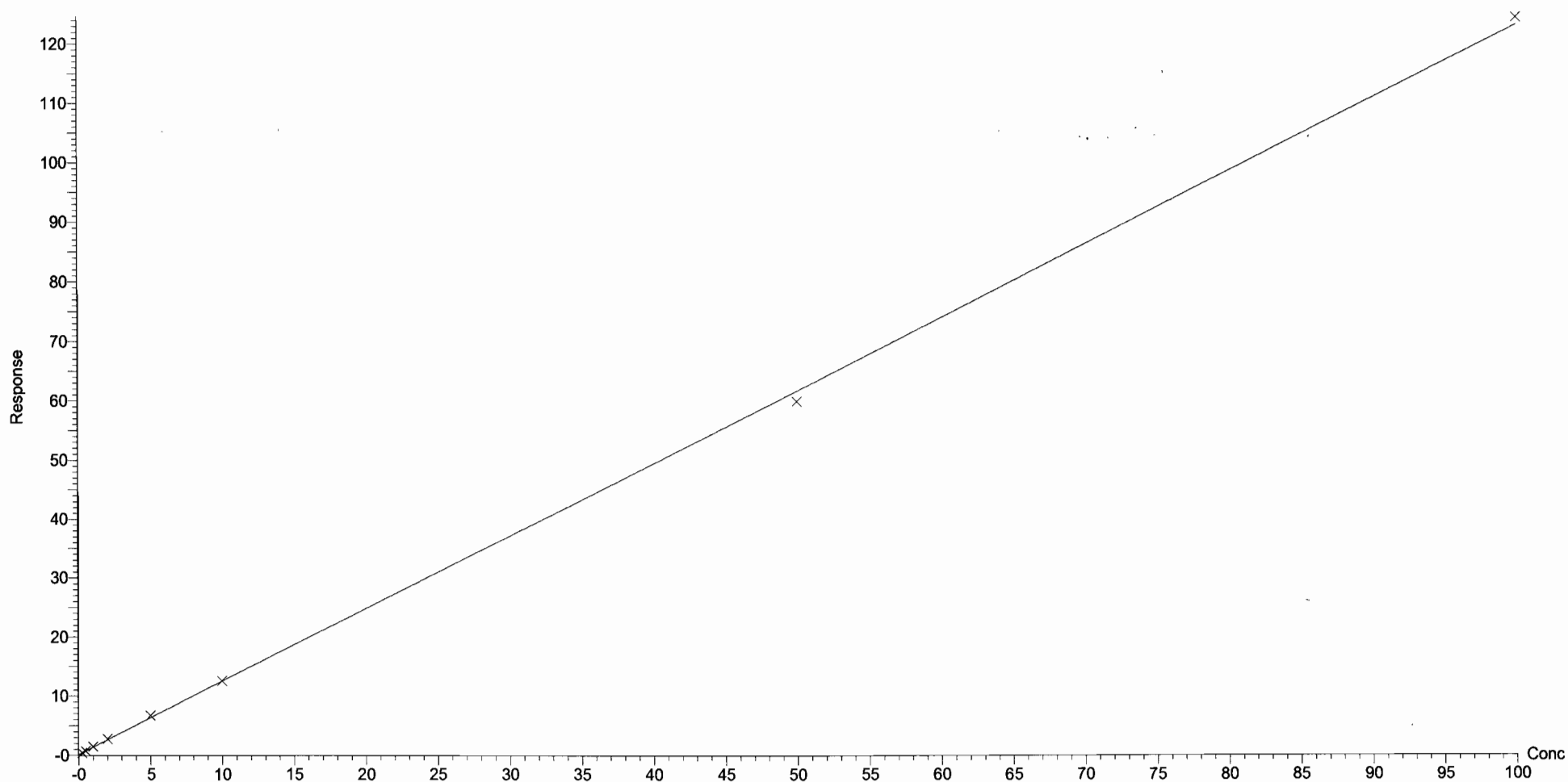
Compound name: PFDA

Correlation coefficient: $r = 0.999716$, $r^2 = 0.999431$

Calibration curve: $1.23228 * x + 0.147279$

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

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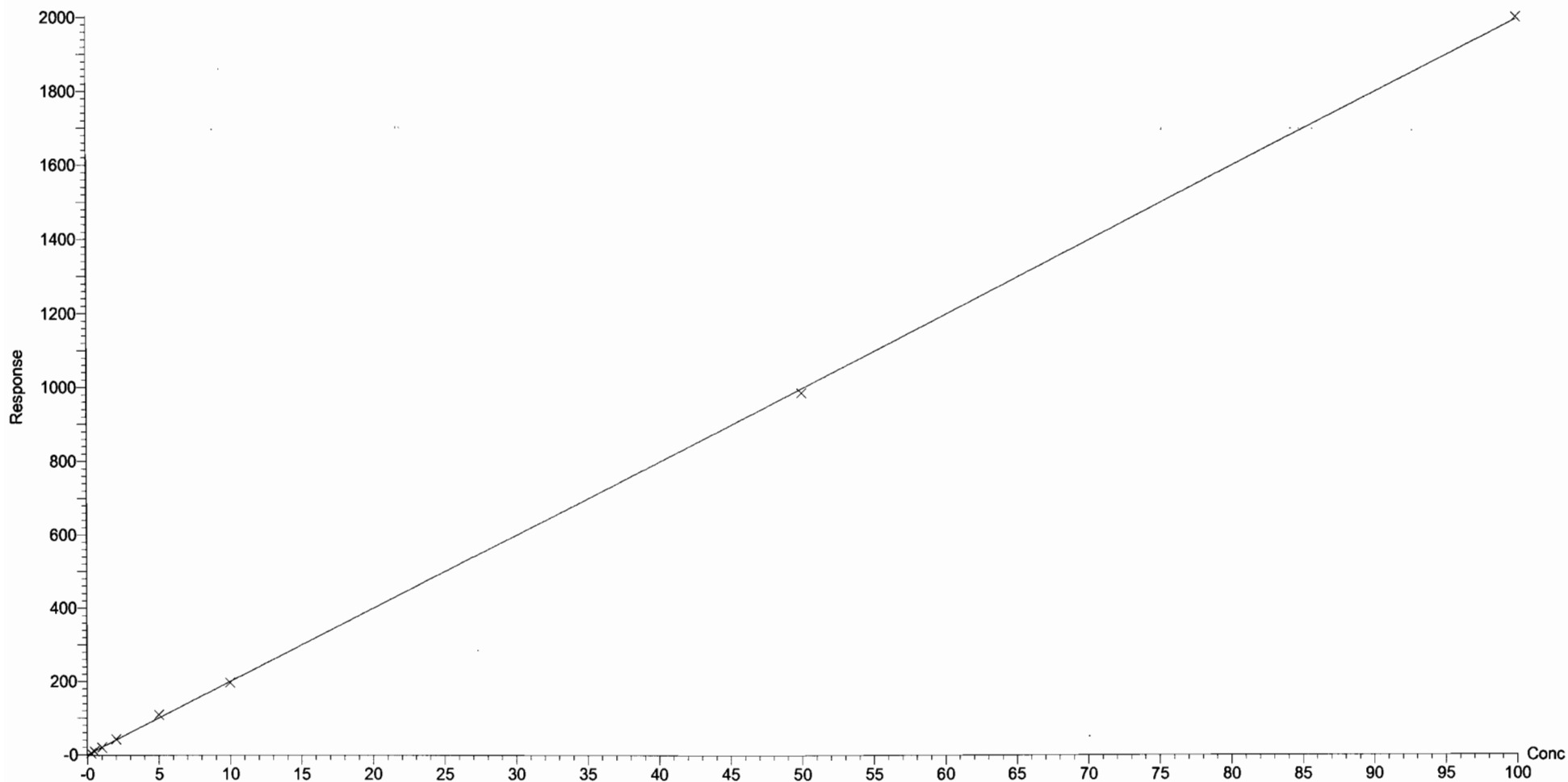
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999665$

Calibration curve: $0.00022775 * x^2 + 19.9472 * x + 0.0898127$

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

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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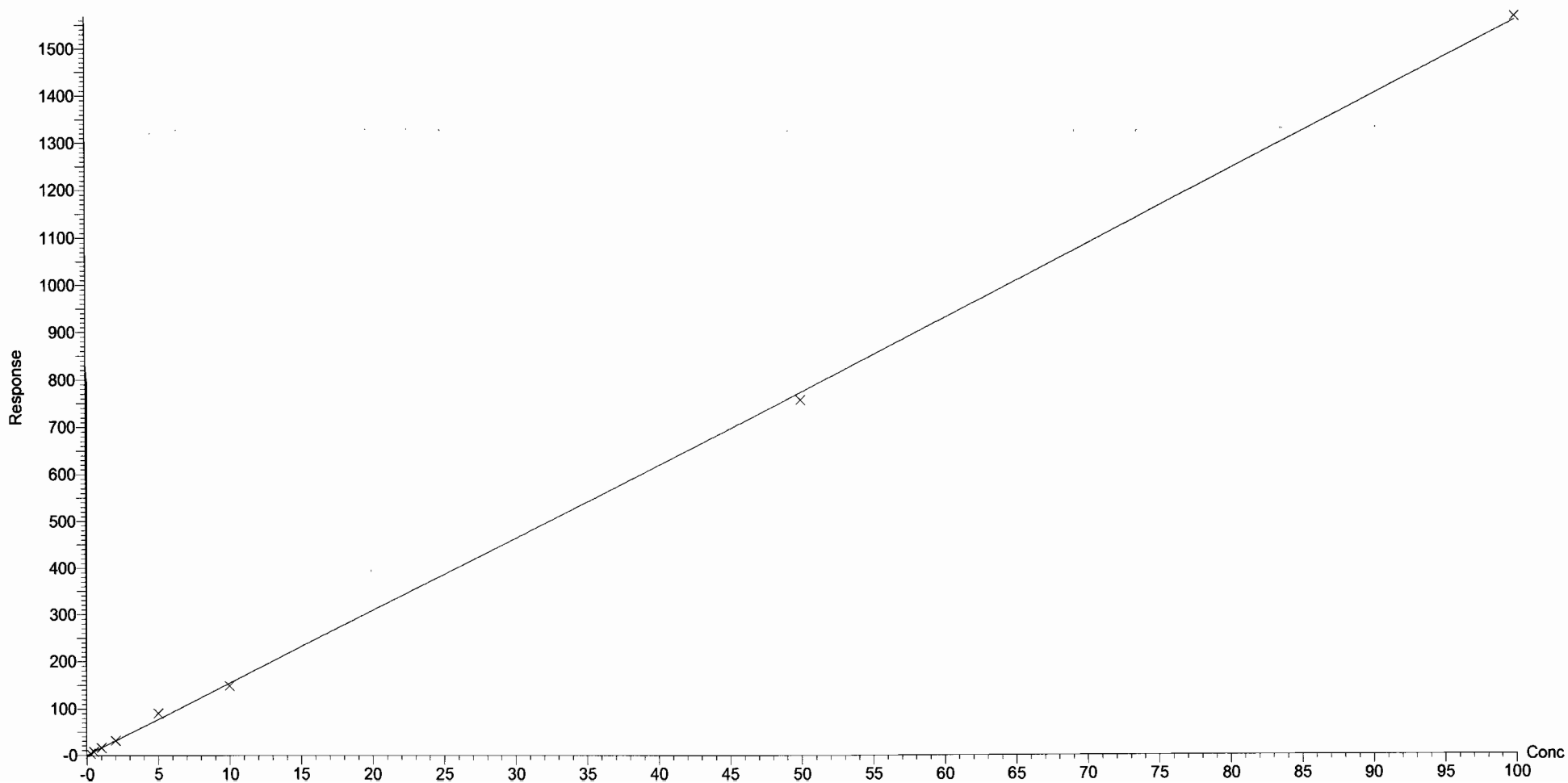
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.998879$

Calibration curve: $0.00266631 * x^2 + 15.3353 * x + 0.19972$

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

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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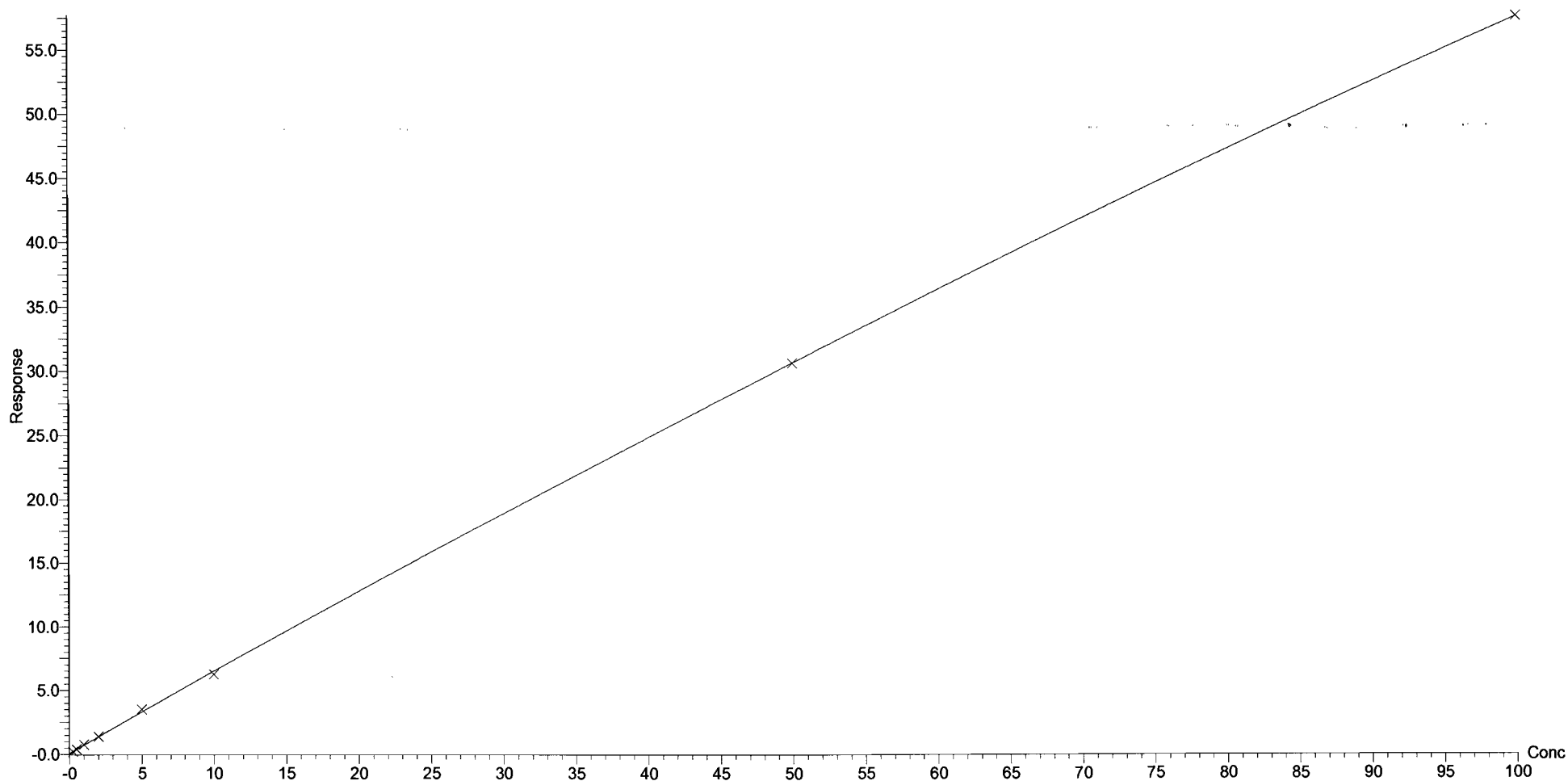
Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.999664$

Calibration curve: $-0.000726299 * x^2 + 0.648776 * x + 0.0756752$

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

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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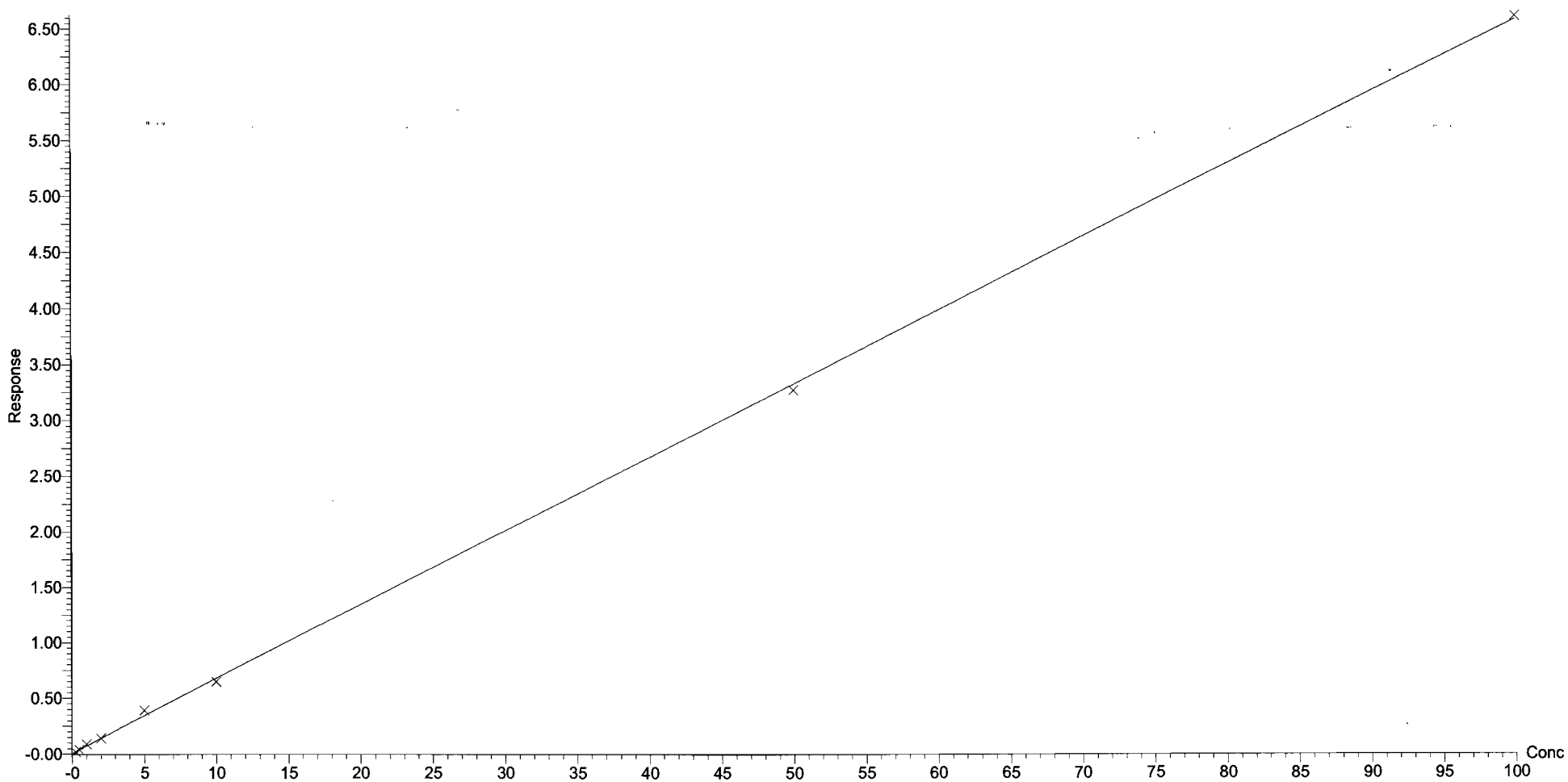
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.998629$

Calibration curve: $-1.32982e-005 * x^2 + 0.0672039 * x + 0.00706292$

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

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

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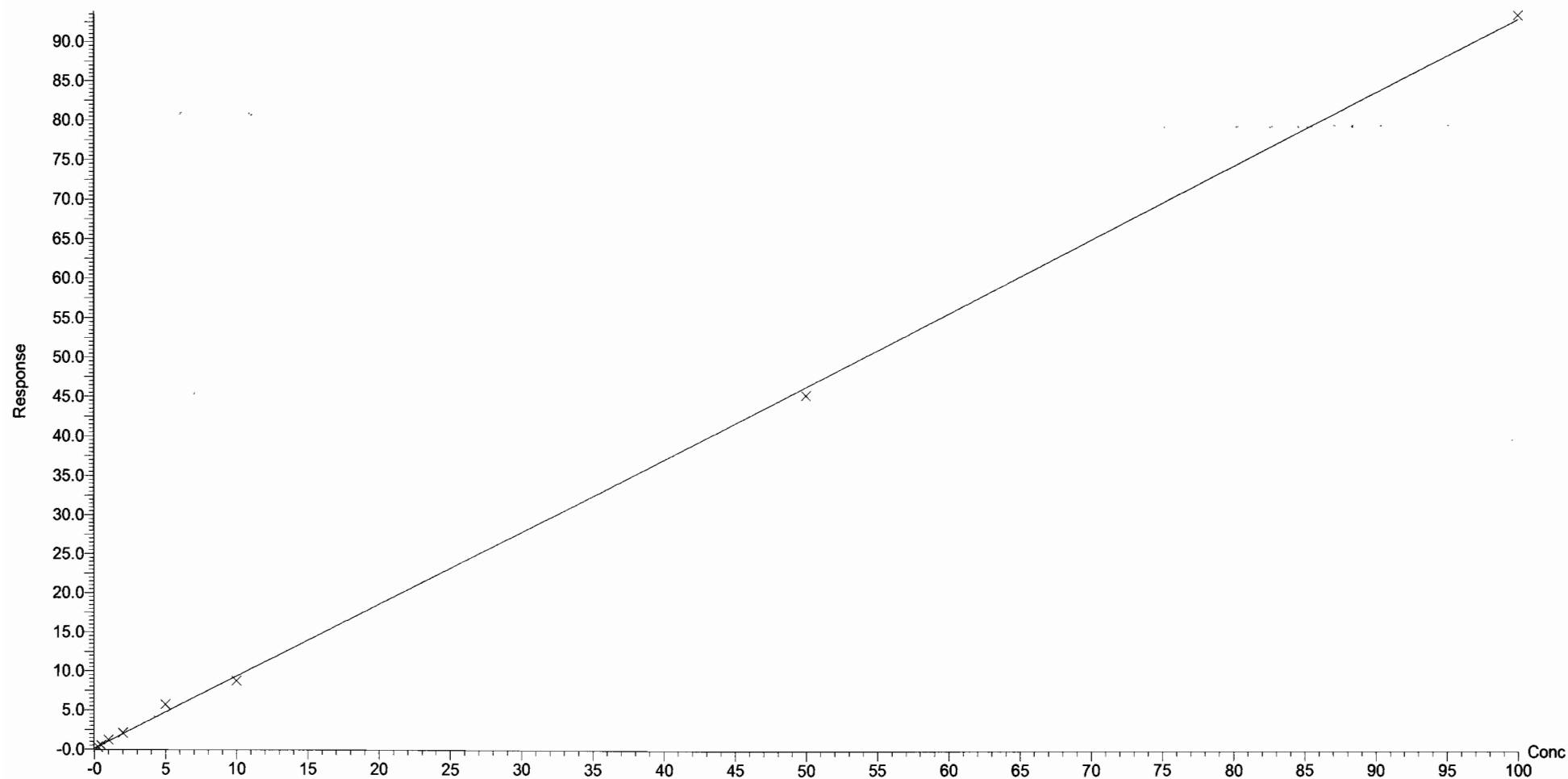
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.997867$

Calibration curve: $0.000108363 * x^2 + 0.920945 * x + 0.119714$

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

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

Printed: Friday, July 28, 2017 09:06:47 Pacific Daylight Time

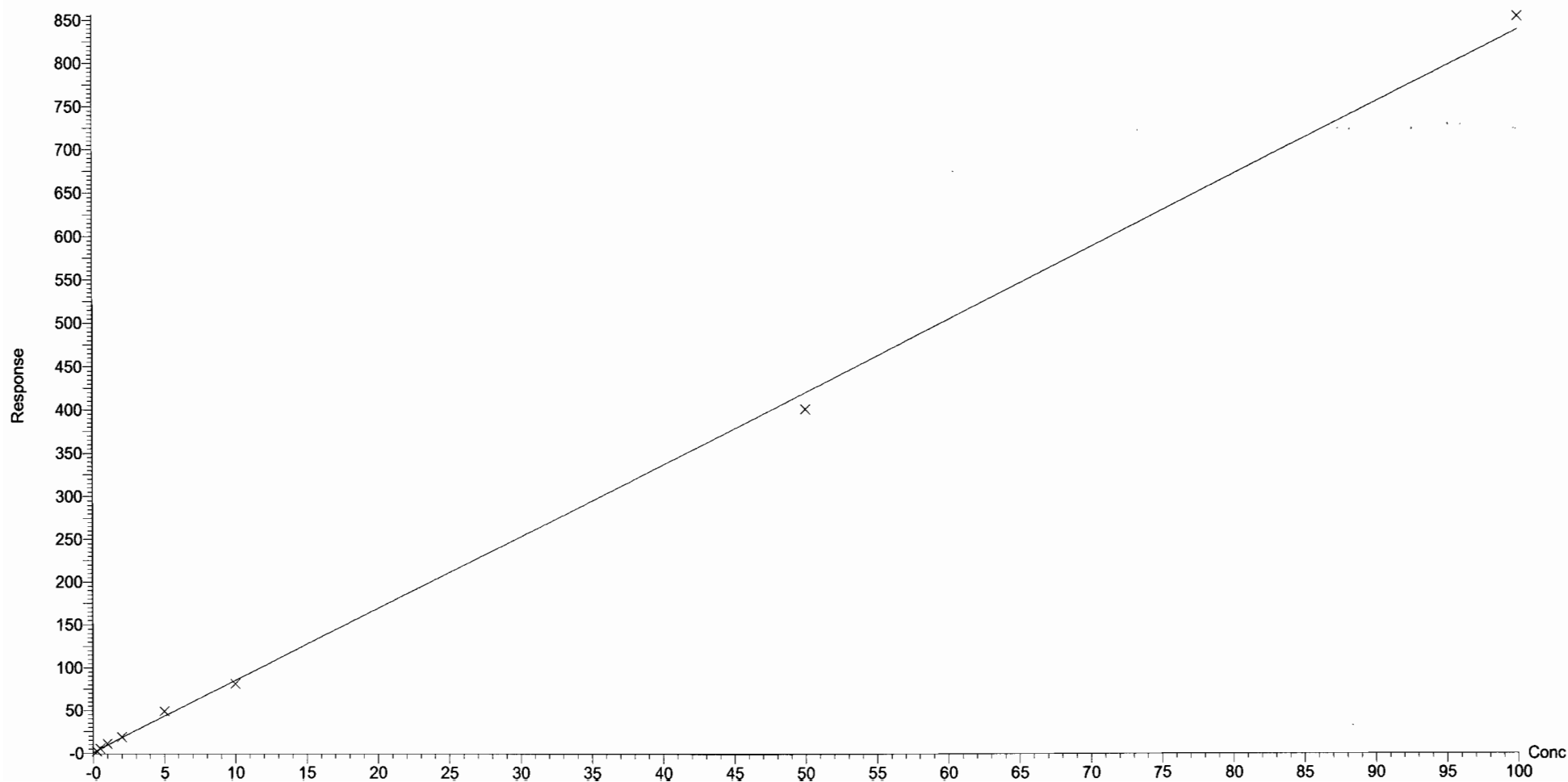
Compound name: PFT_rDA

Correlation coefficient: $r = 0.999051$, $r^2 = 0.998103$

Calibration curve: $8.39255 * x + 1.22744$

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\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

Printed: Friday, July 28, 2017 09:06:47 Pacific Daylight Time

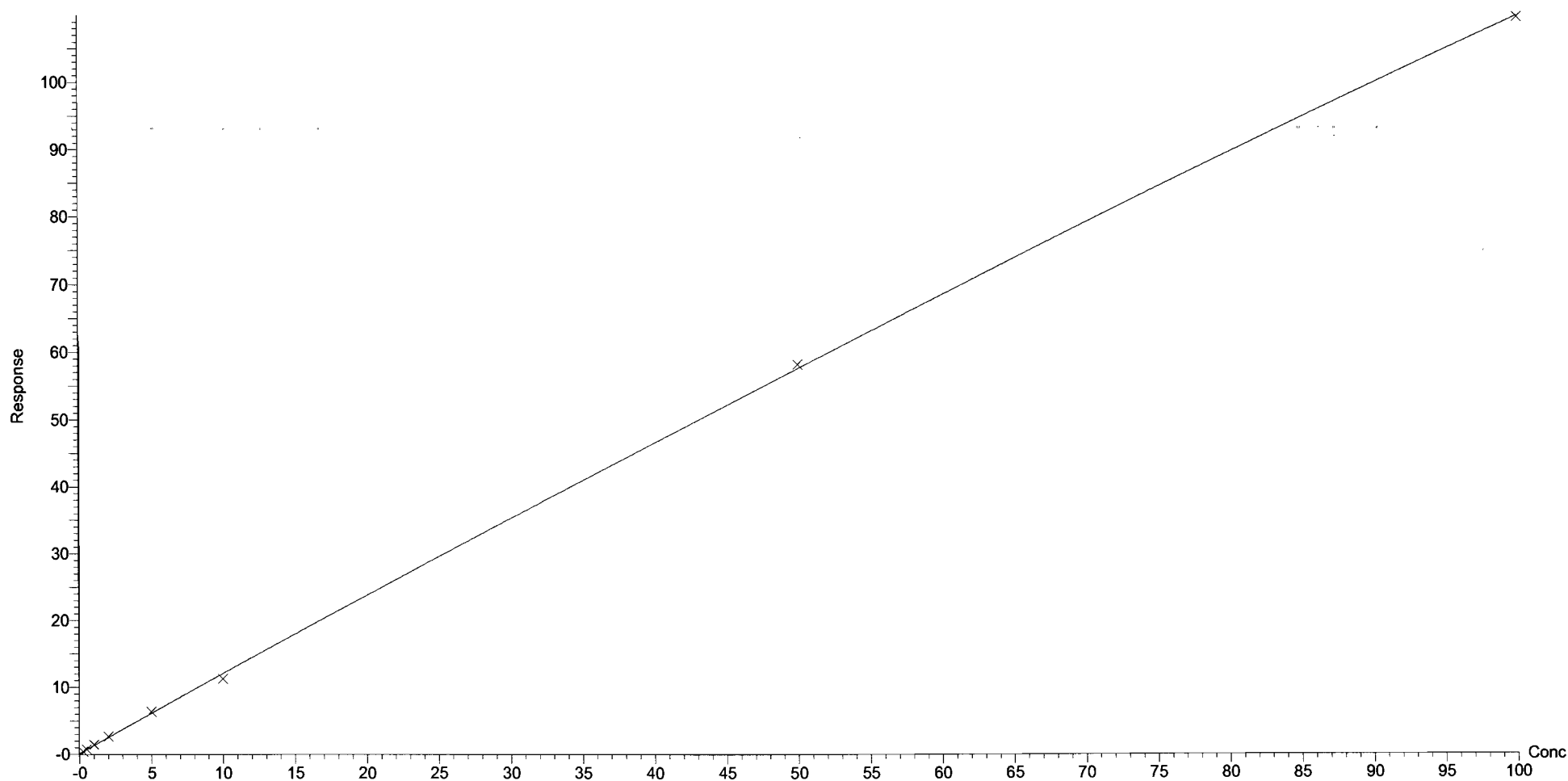
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999478$

Calibration curve: $-0.00104256 * x^2 + 1.20262 * x + 0.131178$

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

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



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

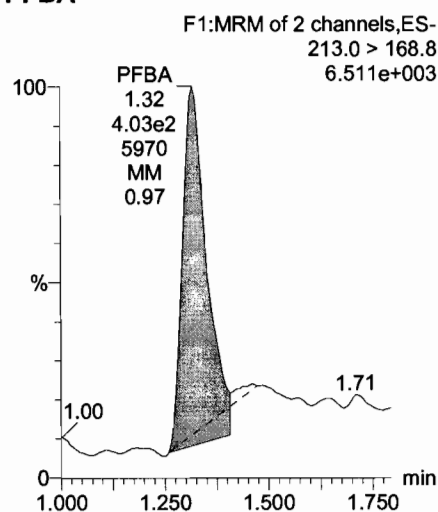
Printed: Friday, July 28, 2017 09:03:52 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

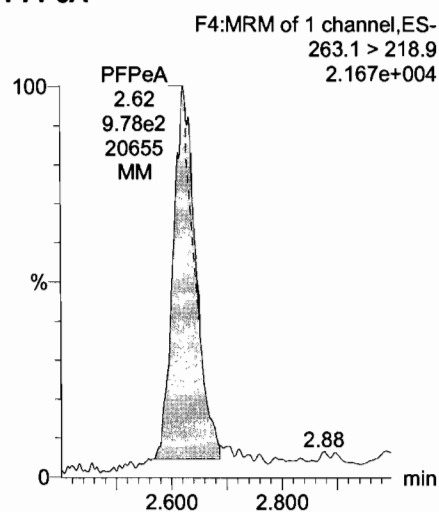
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Name: 170727M1_6, Date: 27-Jul-2017, Time: 11:48:12, ID: ST170727M1-1 PFC CS-2 17G2704, Description: PFC CS-2 17G2704

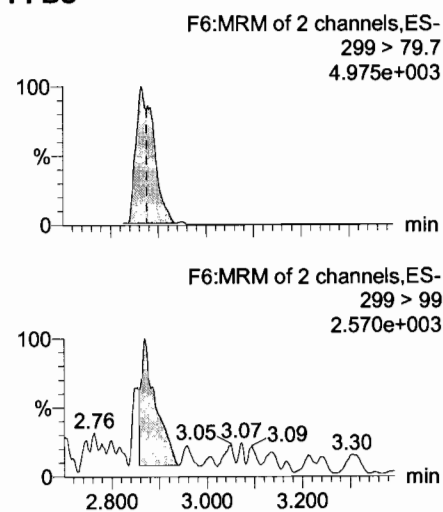
PFBA



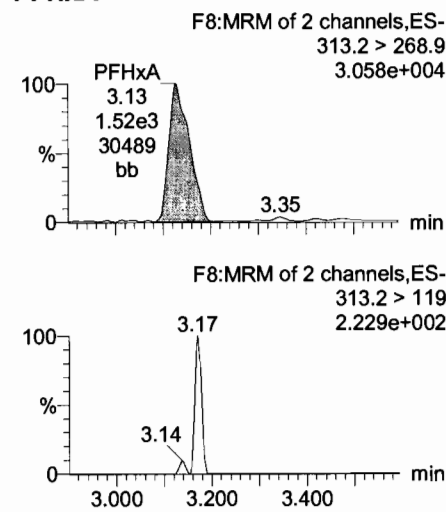
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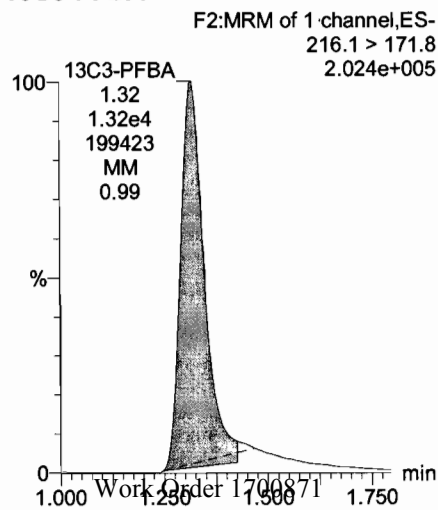
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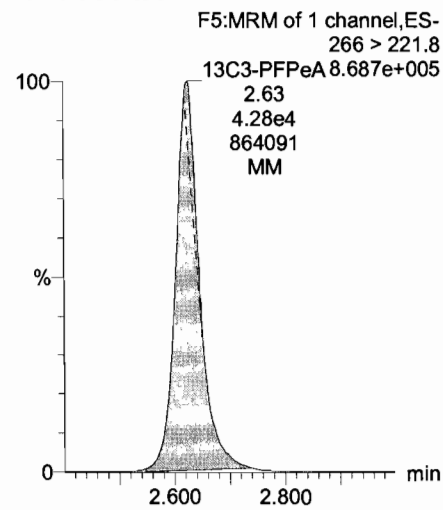
PFHxA



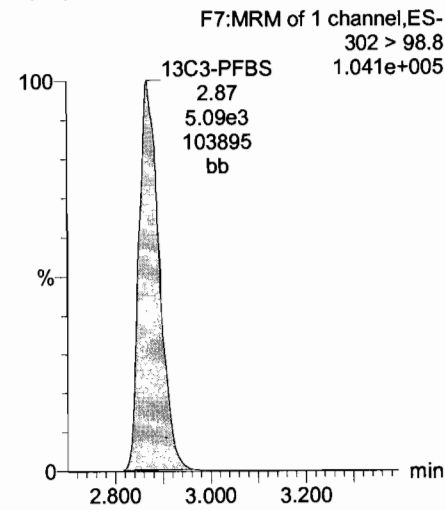
13C3-PFBA



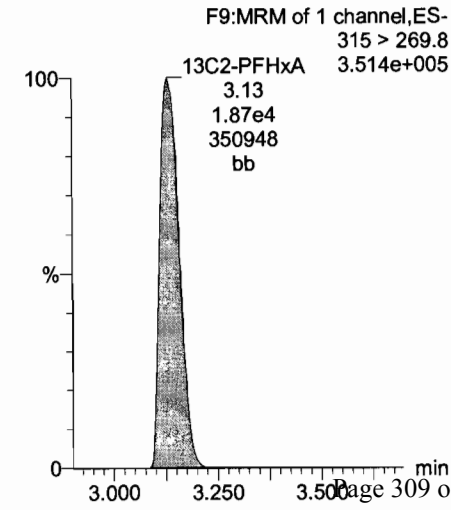
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



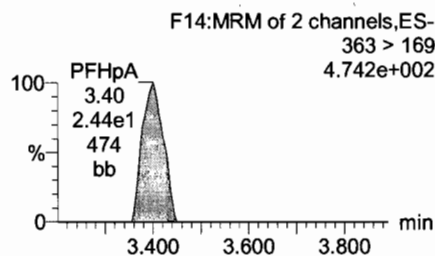
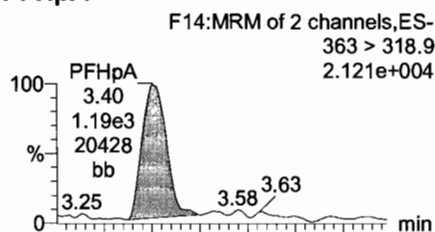
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Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

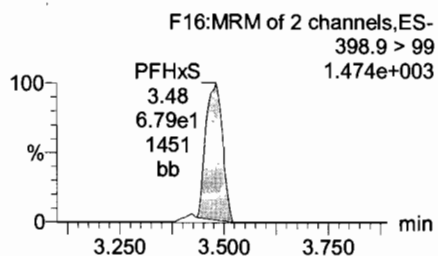
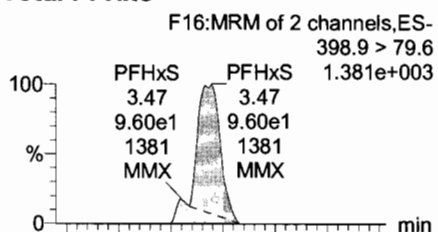
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Name: 170727M1_6, Date: 27-Jul-2017, Time: 11:48:12, ID: ST170727M1-1 PFC CS-2 17G2704, Description: PFC CS-2 17G2704

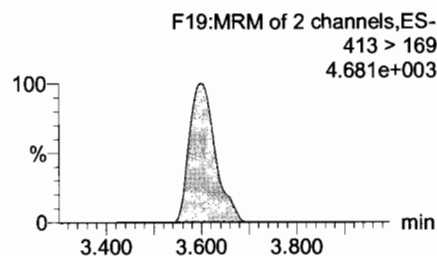
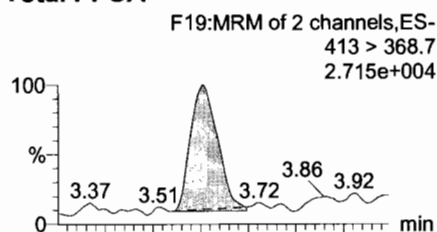
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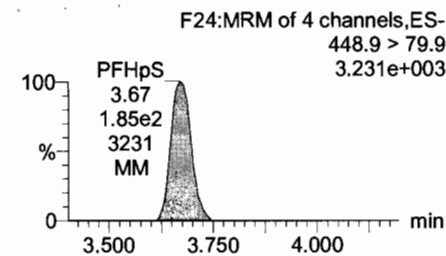
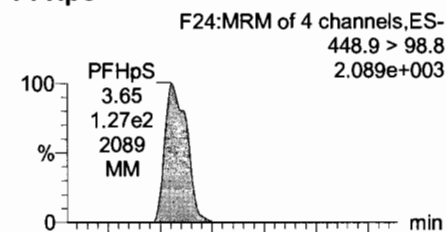
Total PFHxS



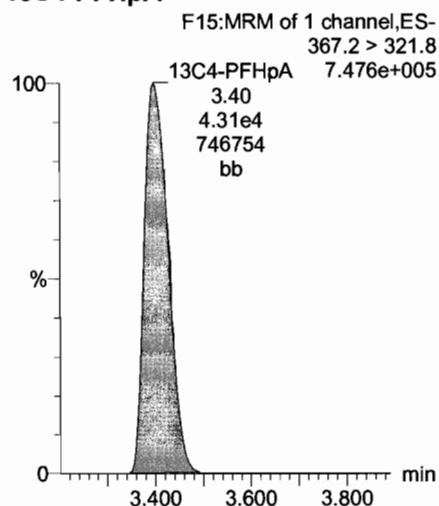
Total PFOA



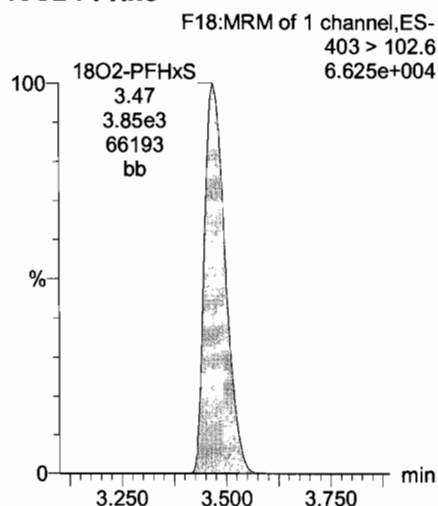
PFHpS



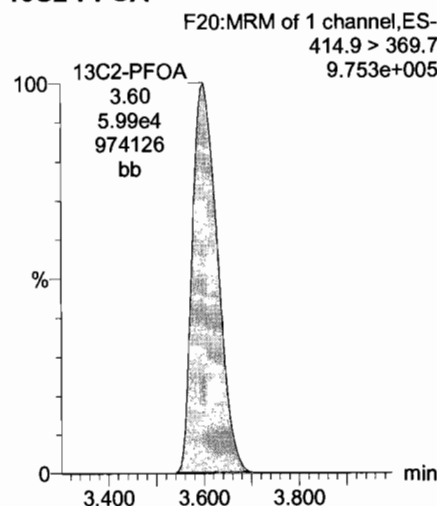
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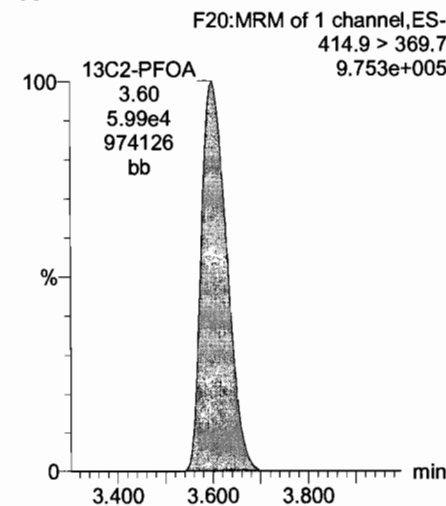
18O2-PFHxS



13C2-PFOA



13C2-PFOA



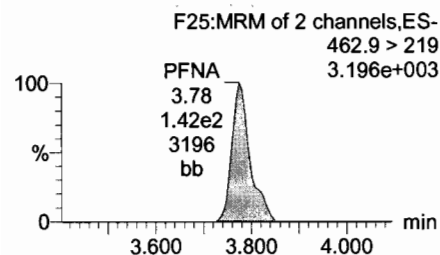
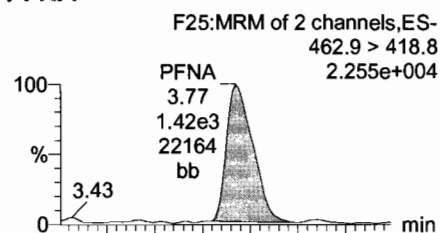
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Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

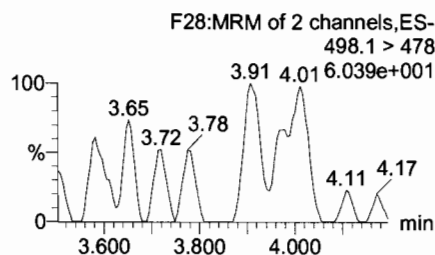
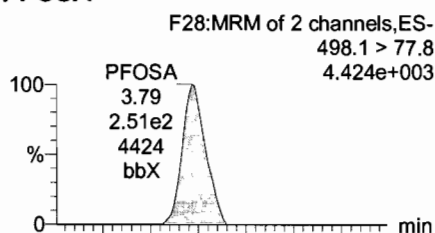
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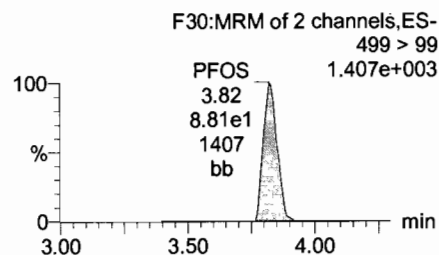
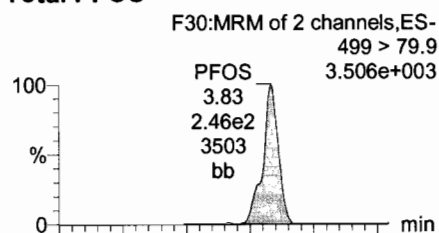
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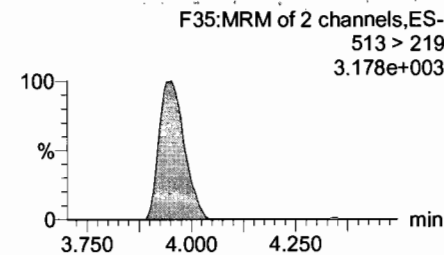
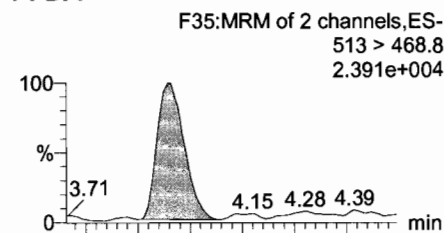
PFOSA



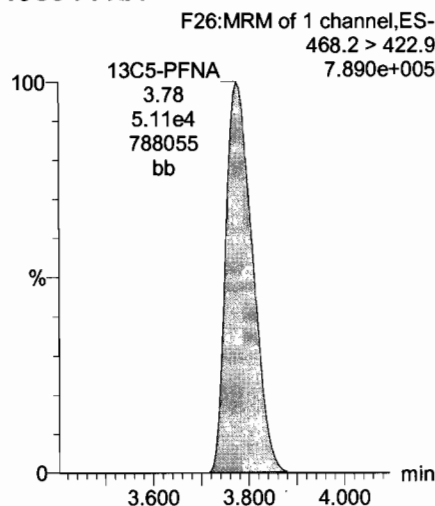
Total PFOS



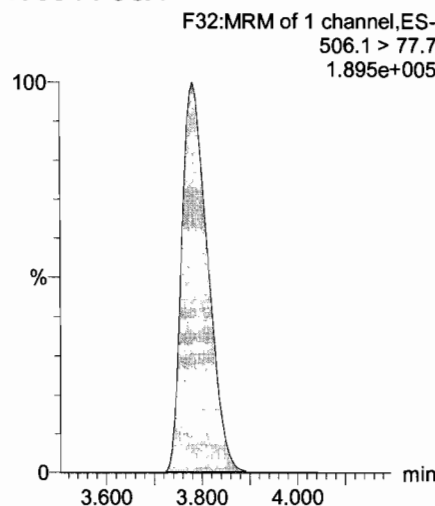
PFDA



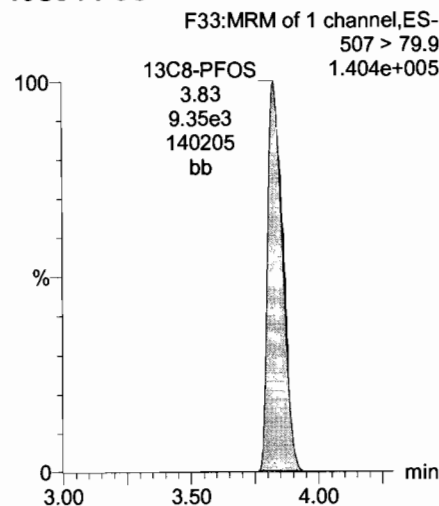
13C5-PFNA



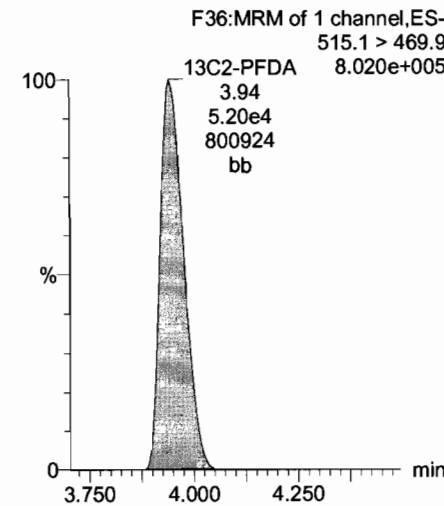
13C8-PFOSA



13C8-PFOS



13C2-PFDA



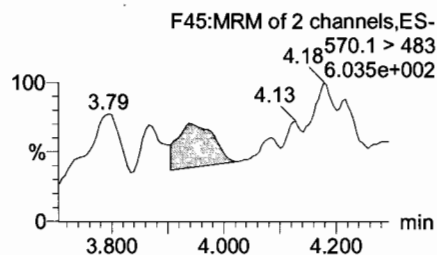
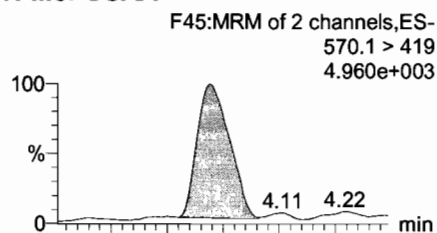
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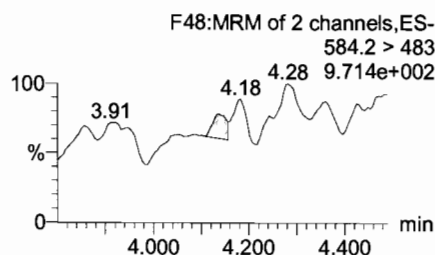
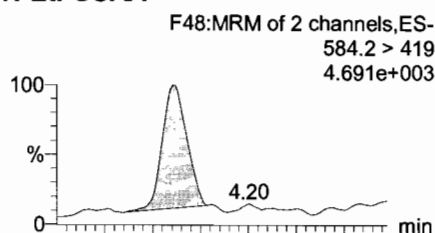
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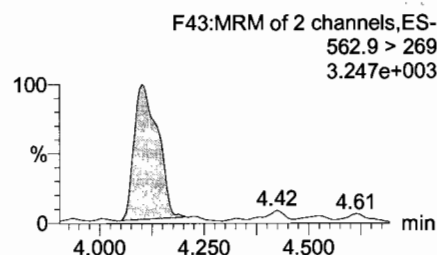
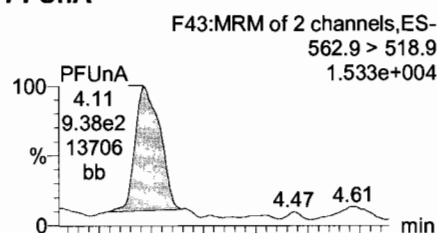
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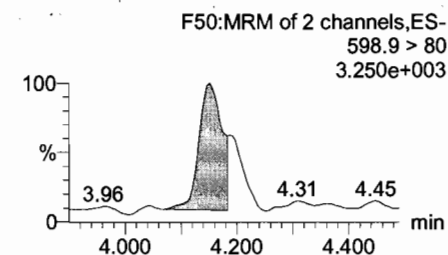
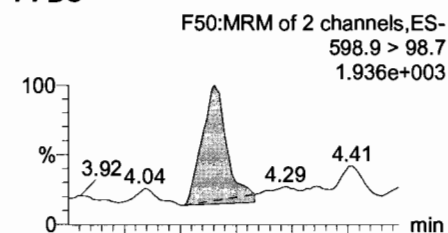
N-EtFOSAA



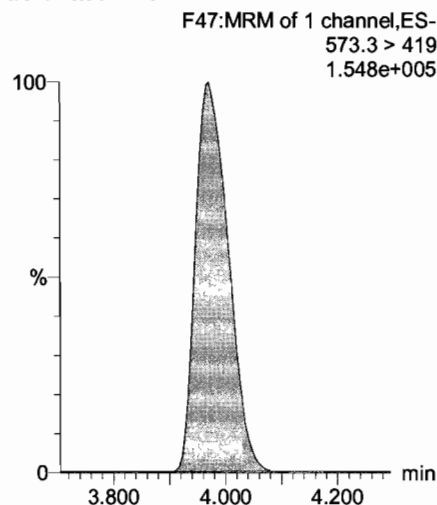
PFUnA



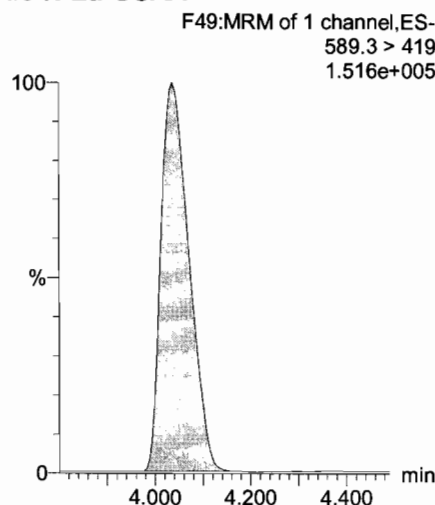
PFDS



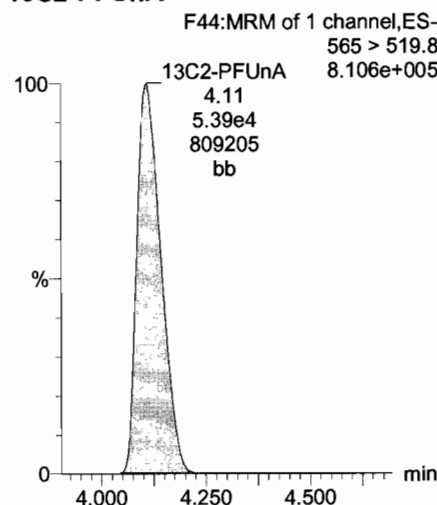
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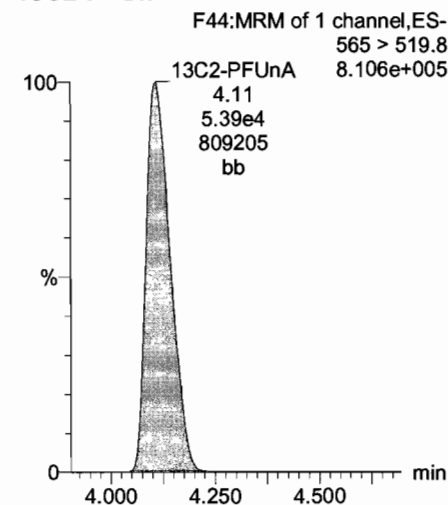
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13C2-PFUnA



13C2-PFUnA



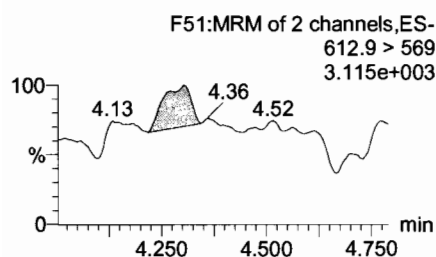
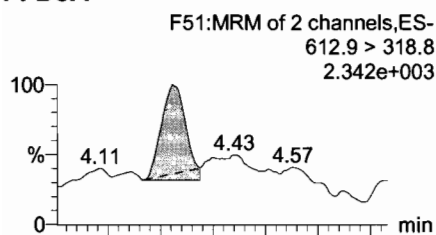
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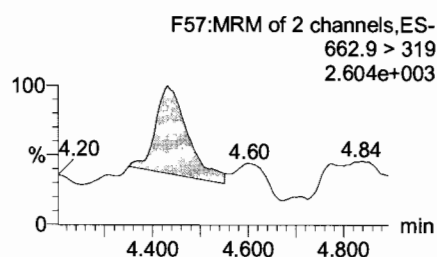
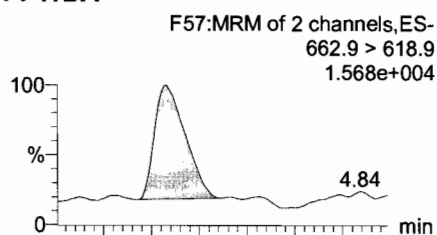
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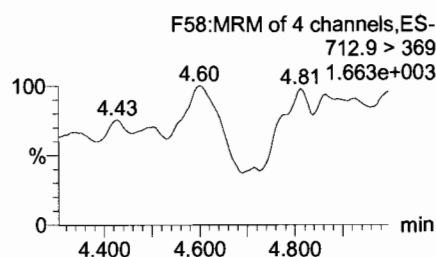
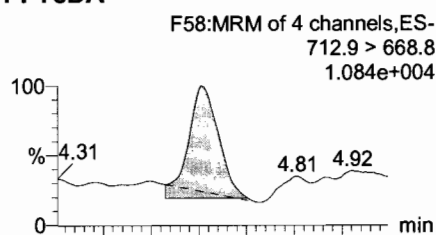
PFD0A



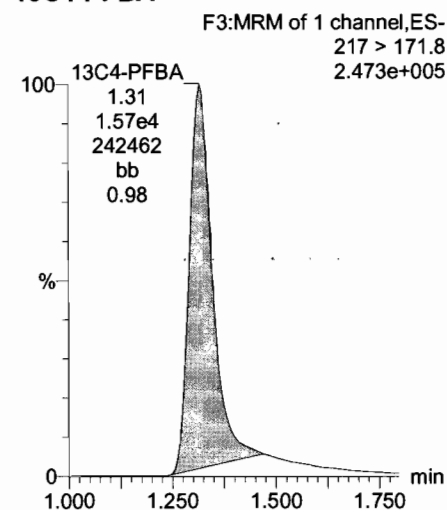
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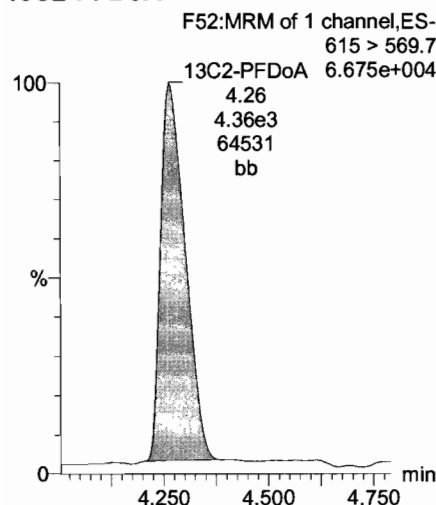
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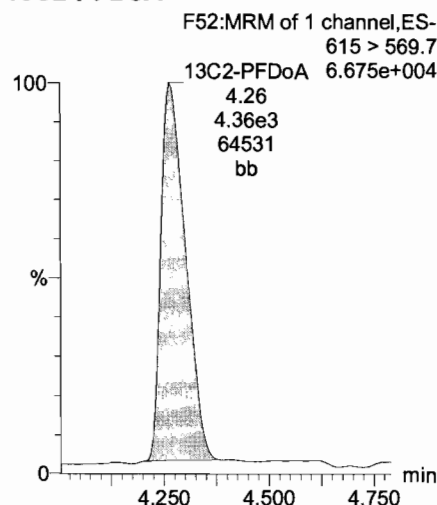
13C4-PFBA



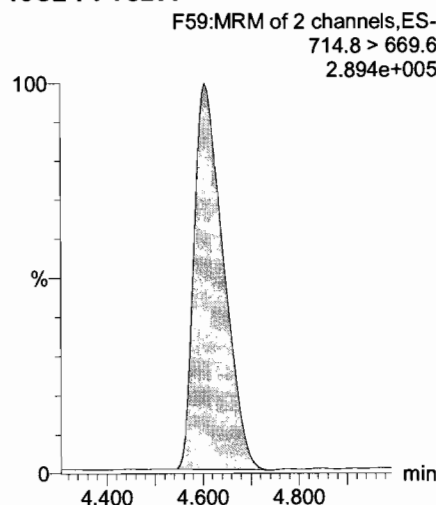
13C2-PFD0A



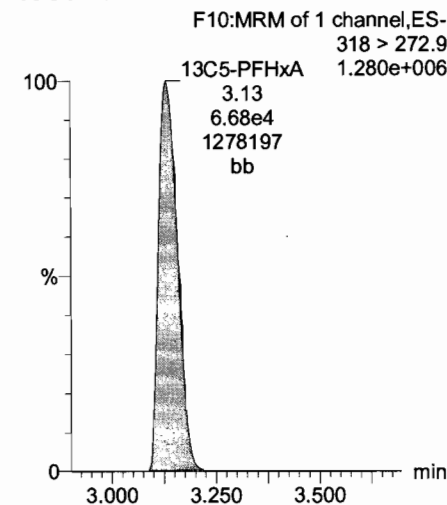
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13C2-PFTeDA



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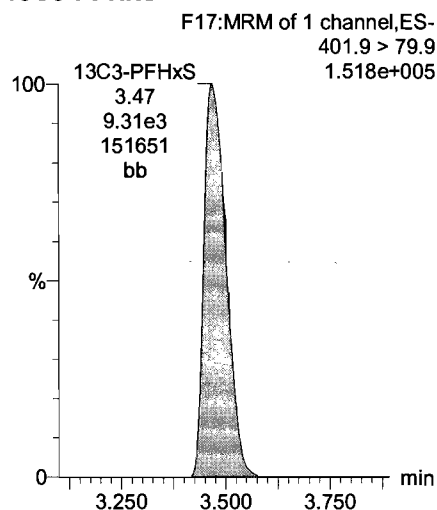
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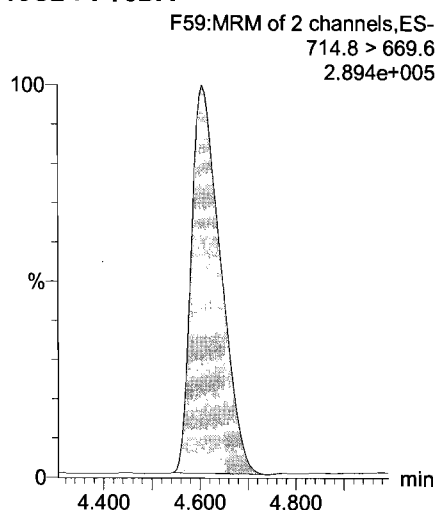
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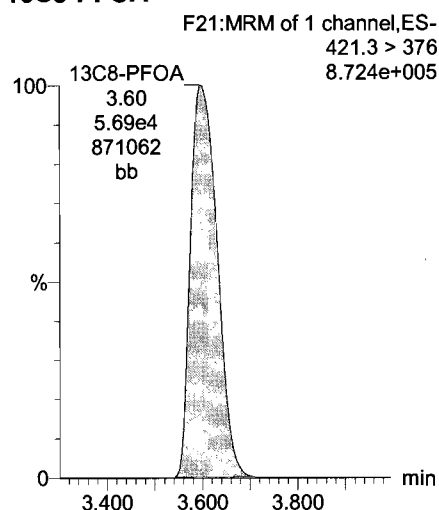
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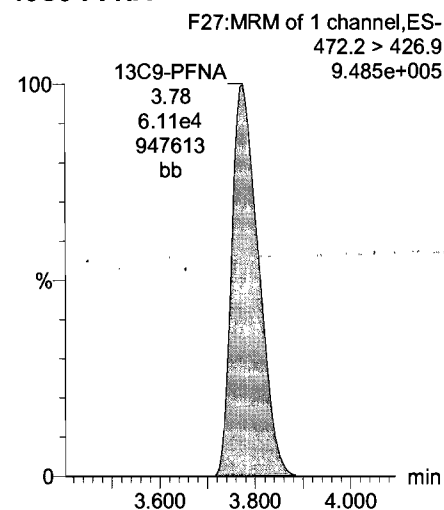
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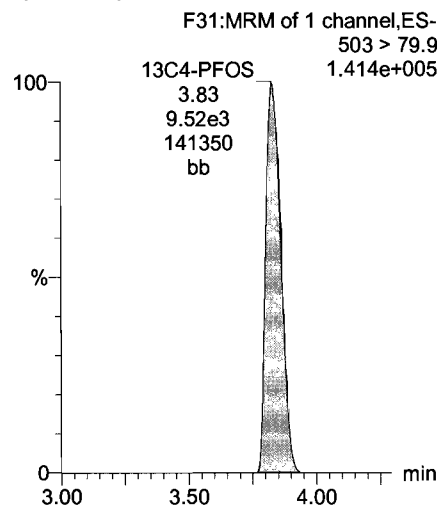
13C8-PFOA



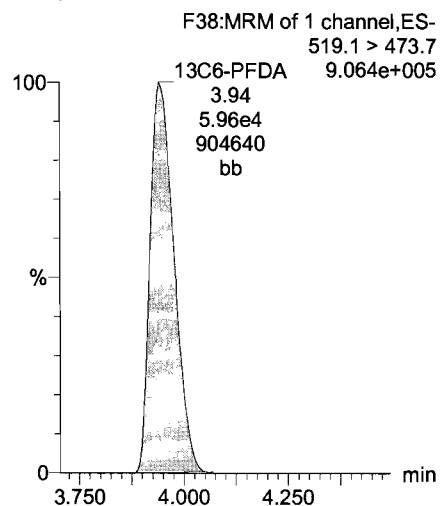
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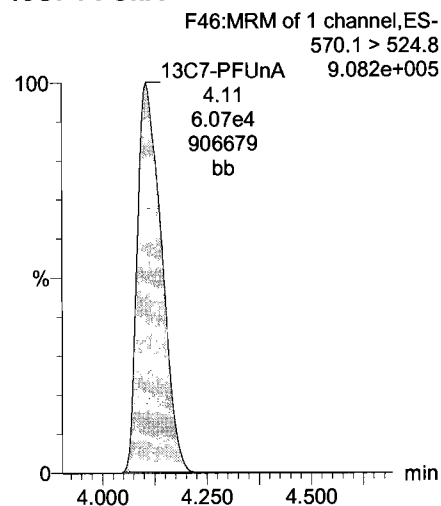
13C4-PFOS



13C6-PFDA



13C7-PFUnA



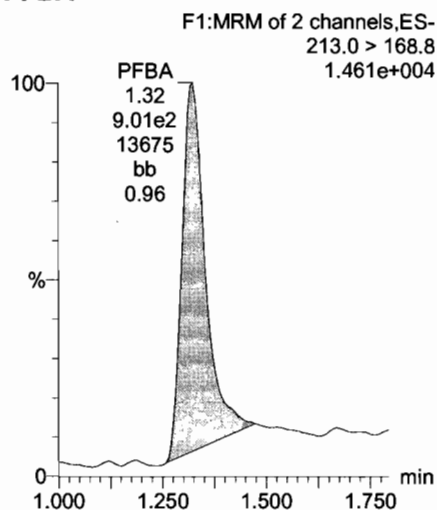
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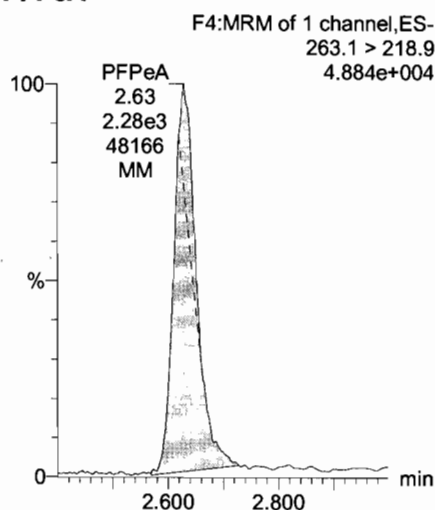
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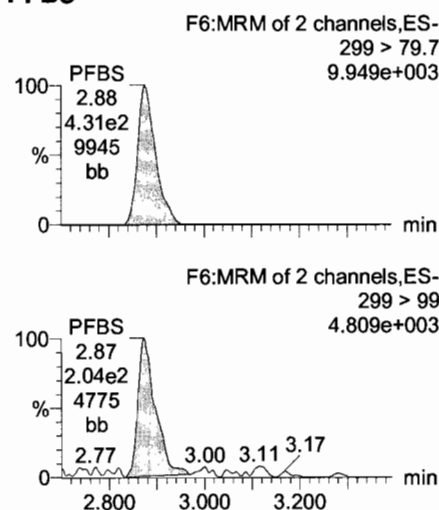
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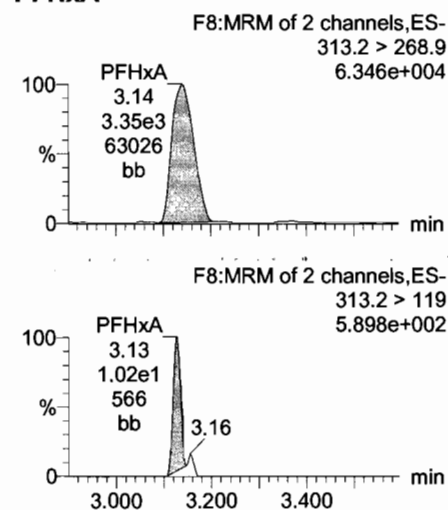
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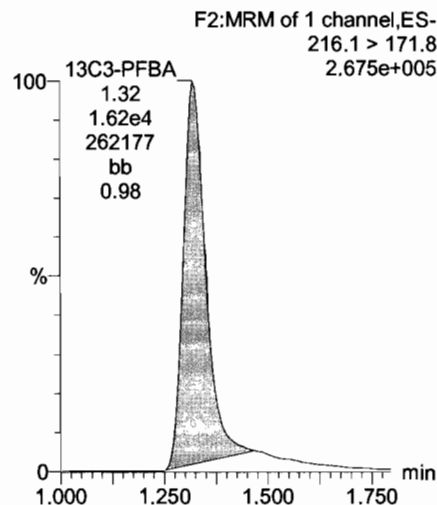
PFBS



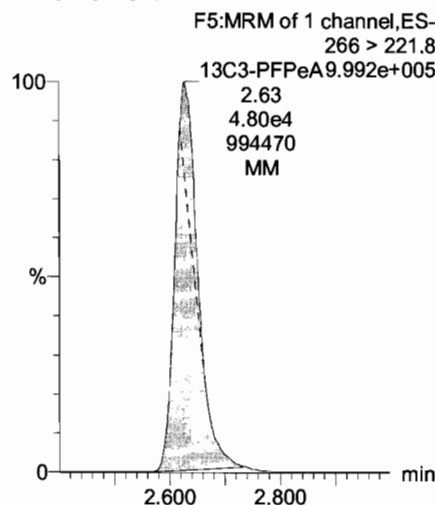
PFHxA



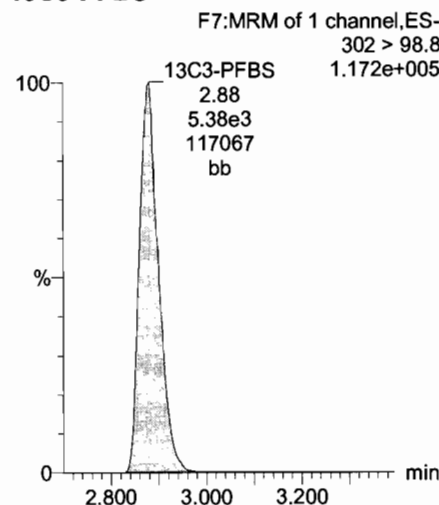
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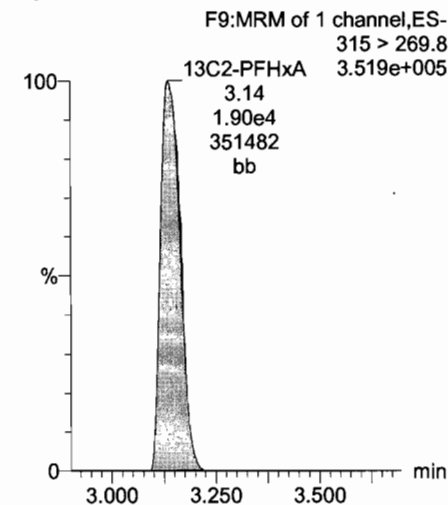
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13C3-PFBS



13C2-PFHxA



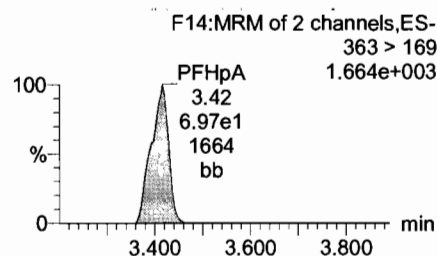
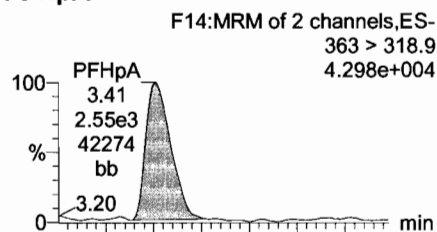
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Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

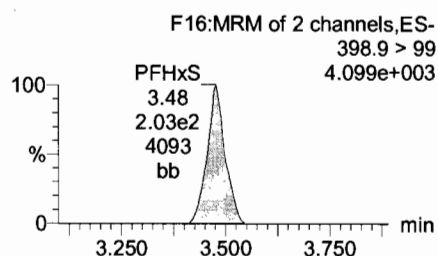
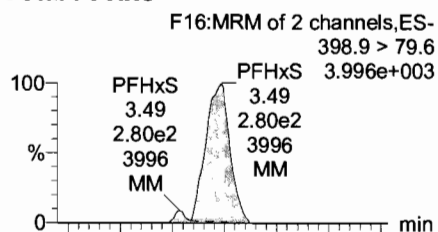
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Name: 170727M1_7, Date: 27-Jul-2017, Time: 11:58:50, ID: ST170727M1-2 PFC CS-1 17G2705, Description: PFC CS-1 17G2705

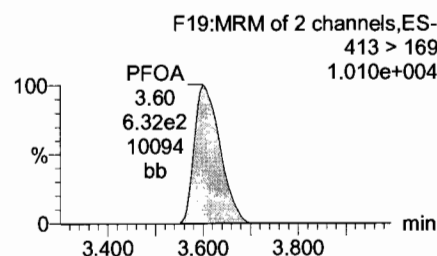
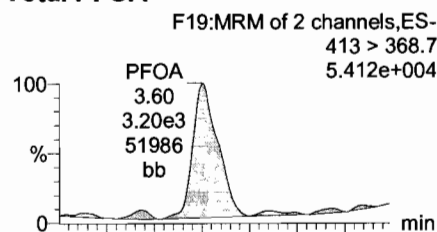
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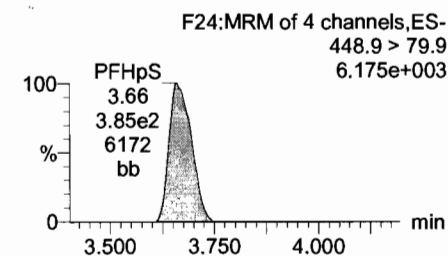
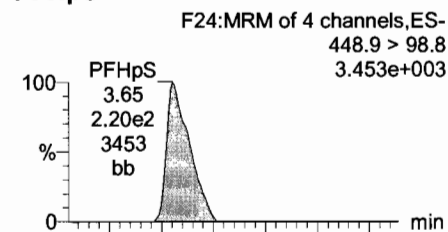
Total PFHxS



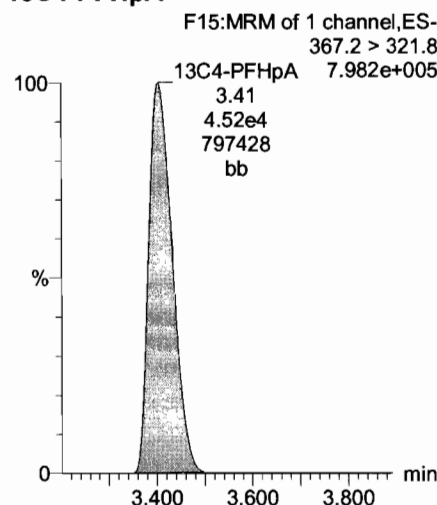
Total PFOA



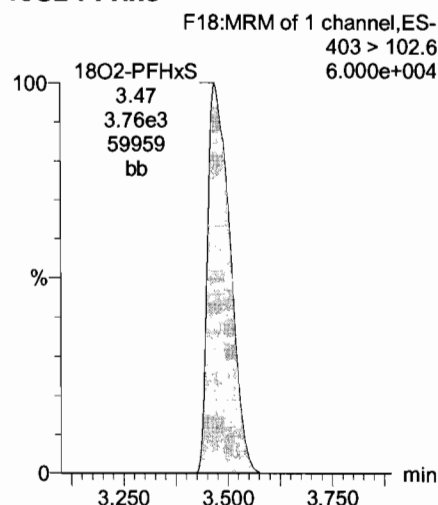
PFHpS



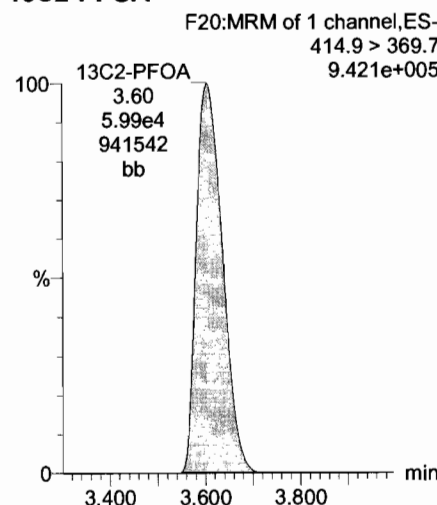
13C4-PFHpA



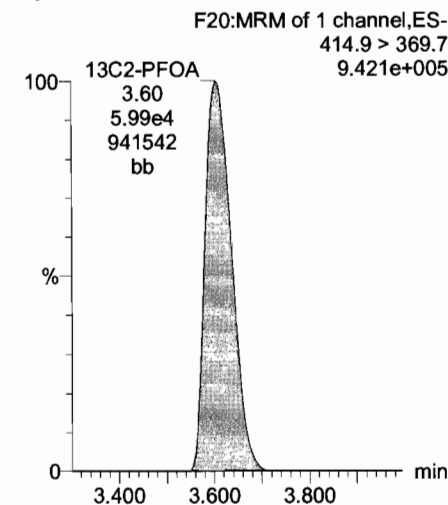
18O2-PFHxS



13C2-PFOA



13C2-PFOA



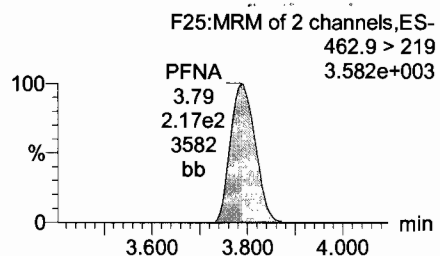
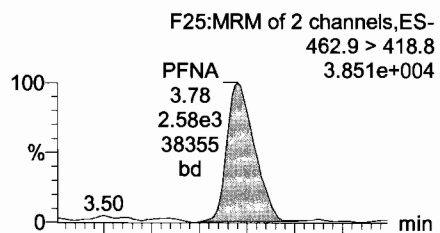
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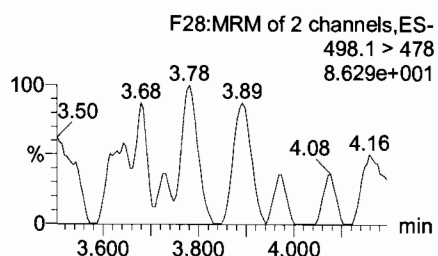
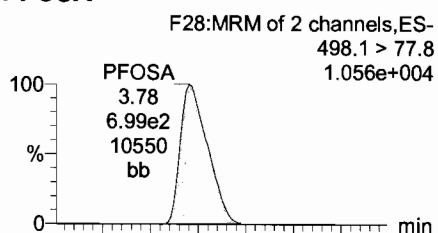
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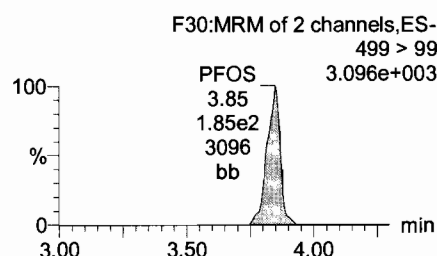
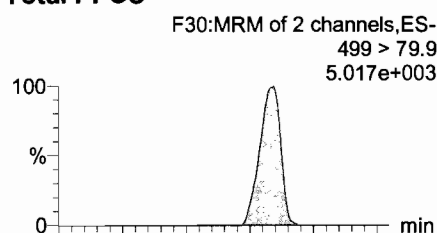
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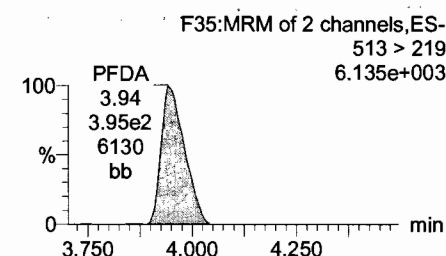
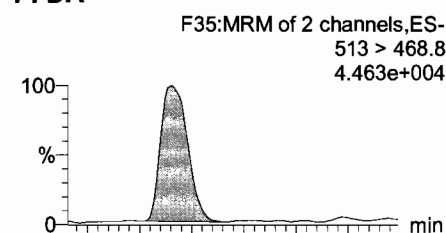
PFOSA



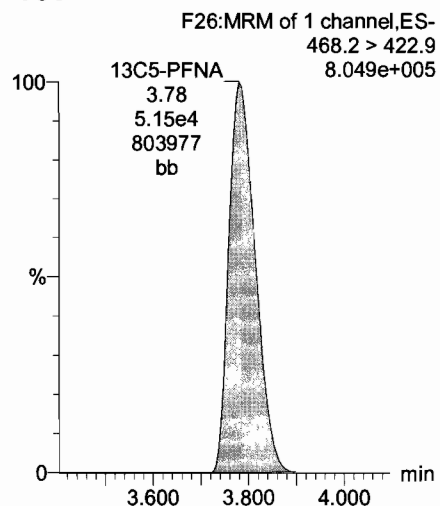
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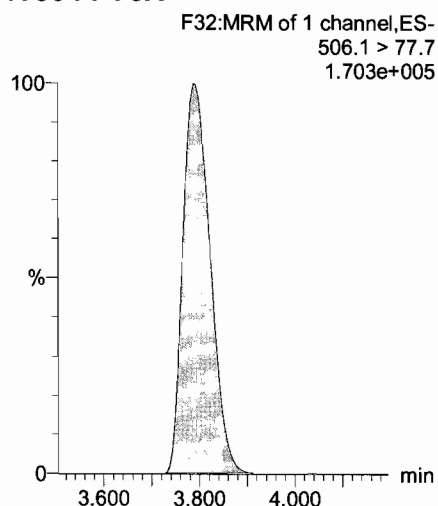
PFDA



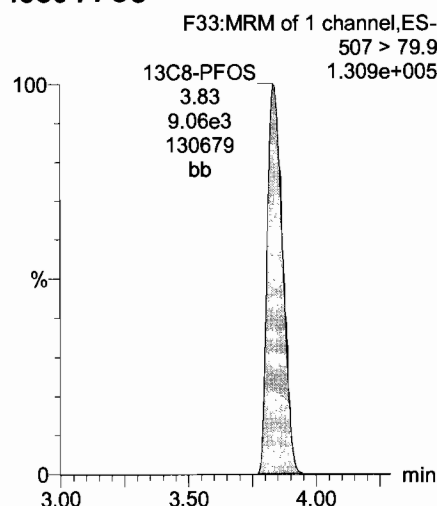
13C5-PFNA



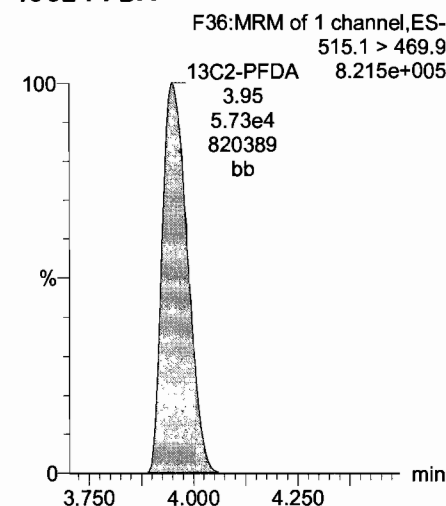
13C8-PFOSA



13C8-PFOS



13C2-PFDA



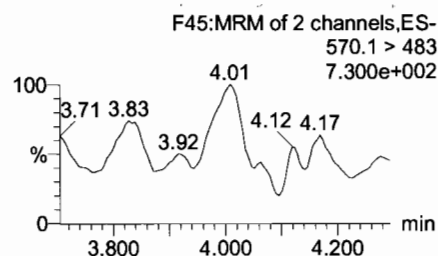
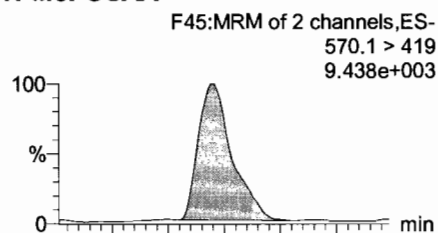
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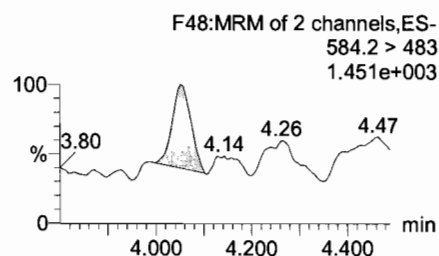
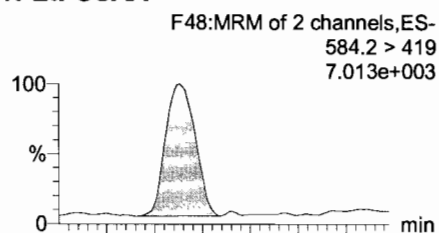
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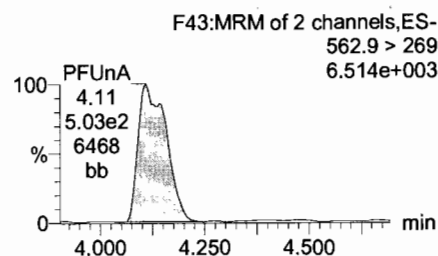
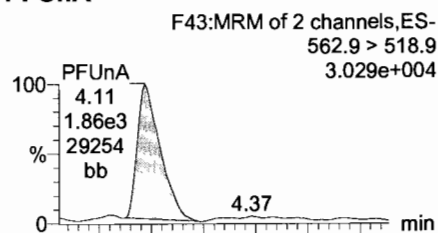
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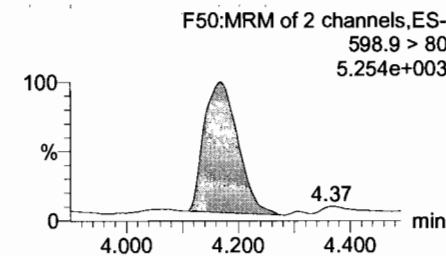
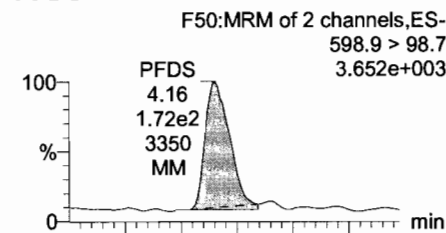
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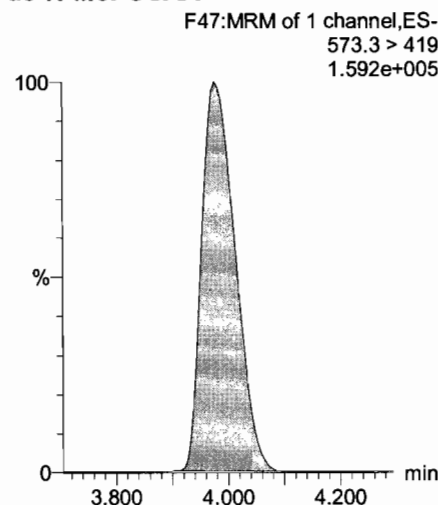
PFUnA



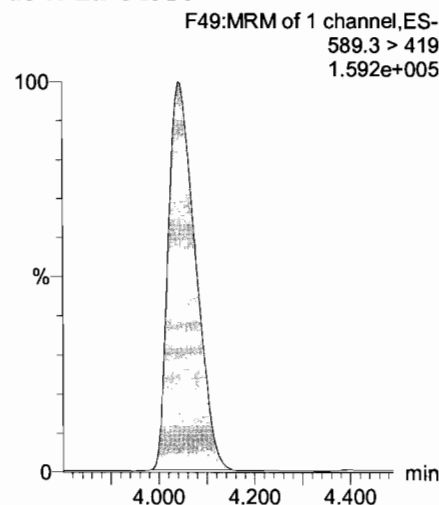
PFDS



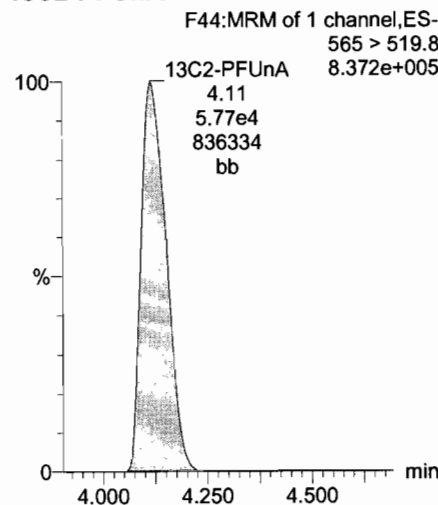
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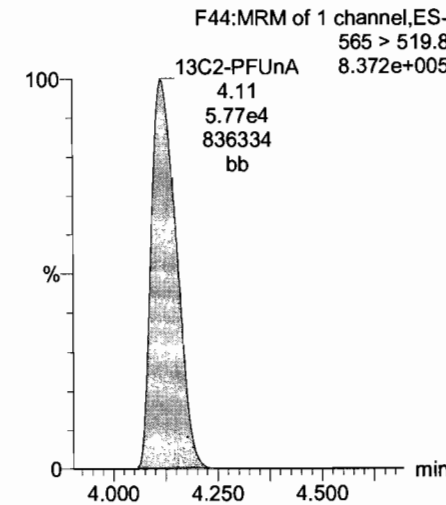
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13C2-PFUnA



13C2-PFUnA



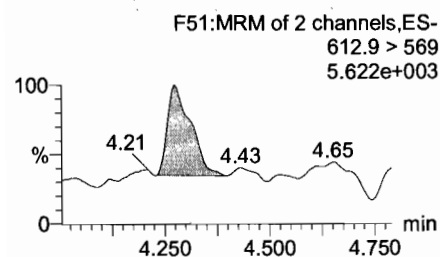
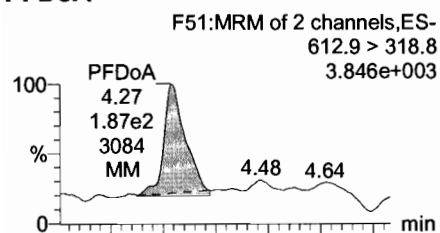
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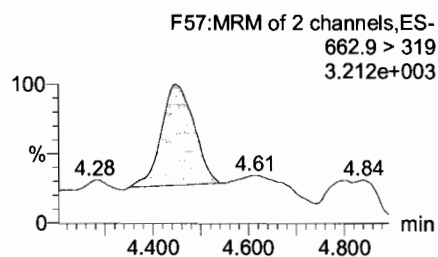
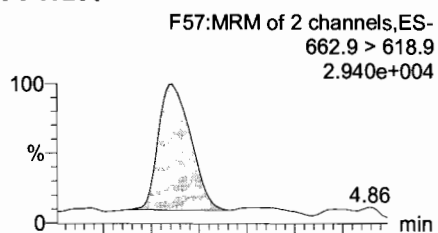
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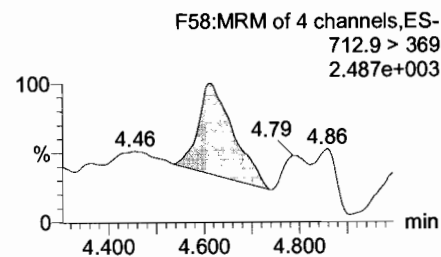
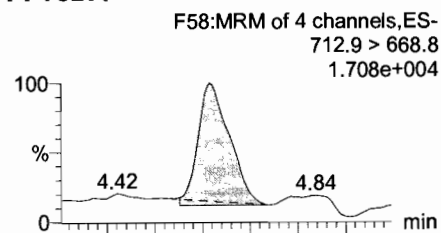
PFD0A



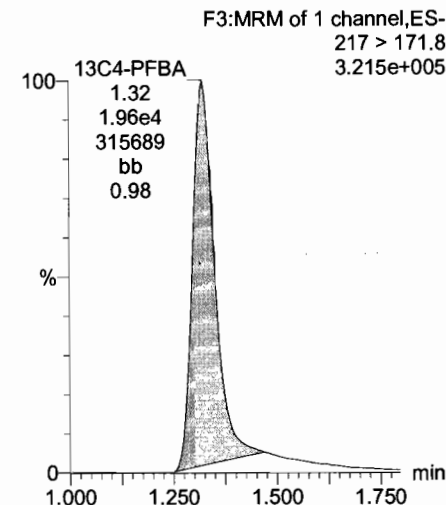
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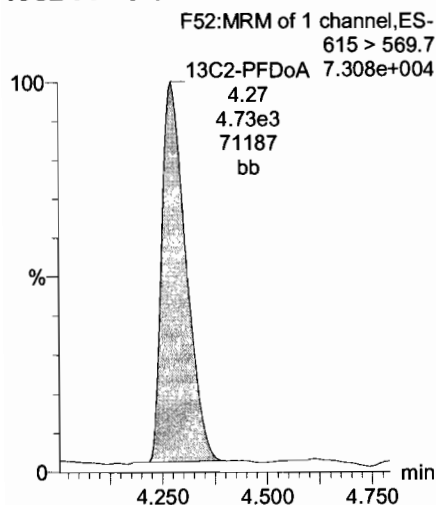
PFTeDA



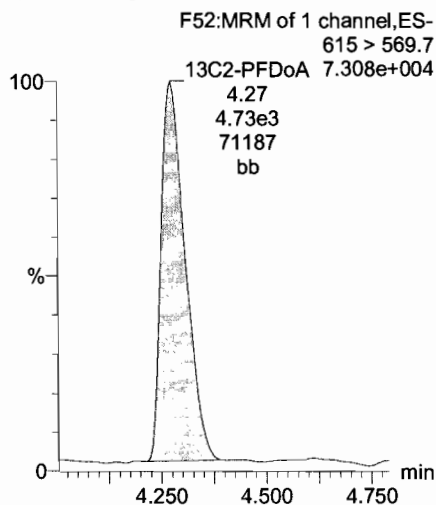
13C4-PFBA



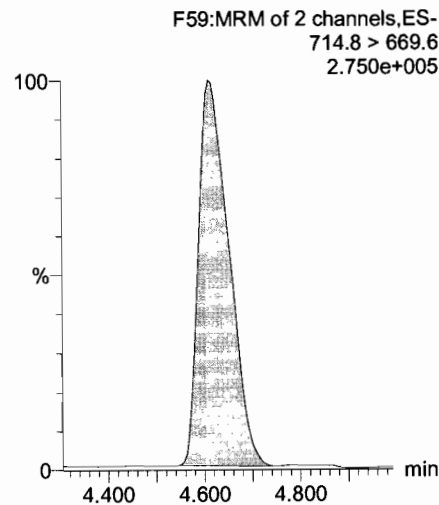
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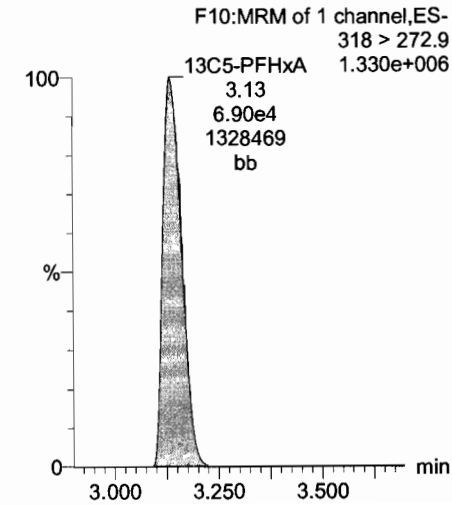
13C2-PFD0A



13C2-PFTeDA



13C5-PFHxA



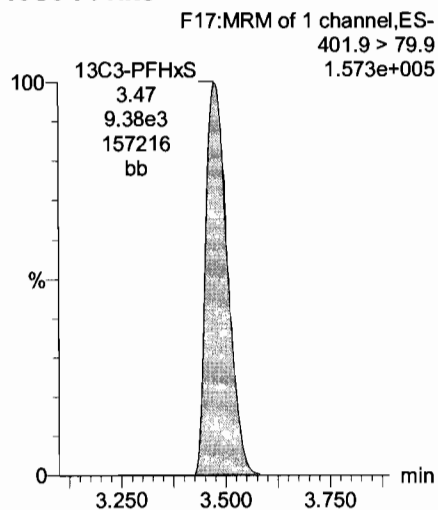
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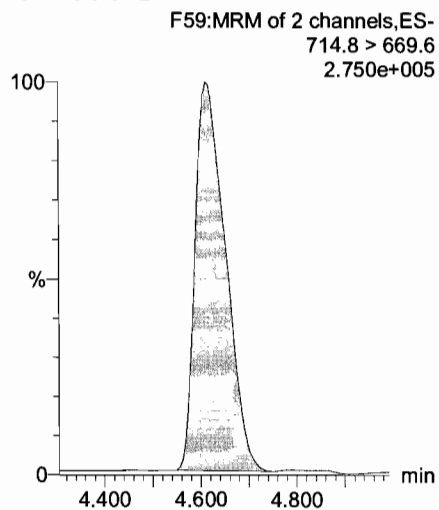
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Name: 170727M1_7, Date: 27-Jul-2017, Time: 11:58:50, ID: ST170727M1-2 PFC CS-1 17G2705, Description: PFC CS-1 17G2705

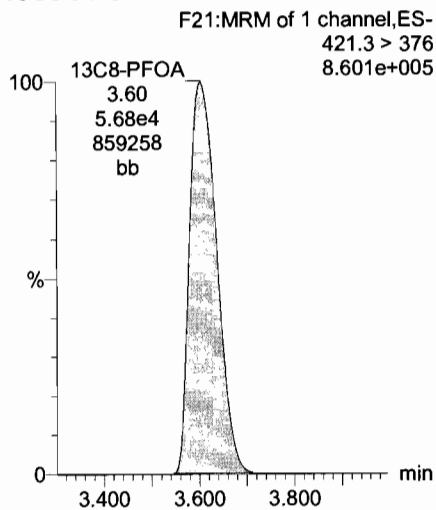
13C3-PFHxS



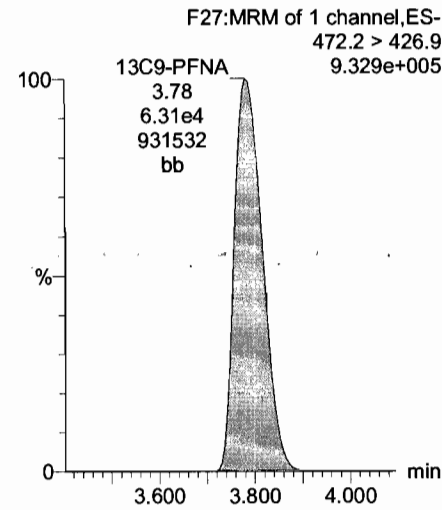
13C2-PFTeDA



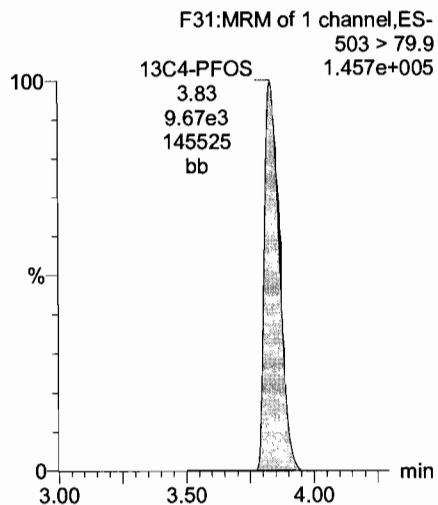
13C8-PFOA



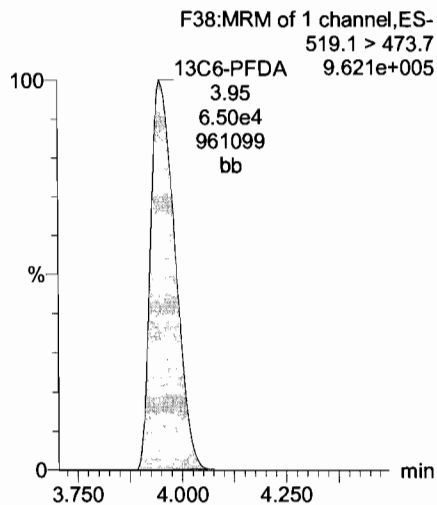
13C9-PFNA



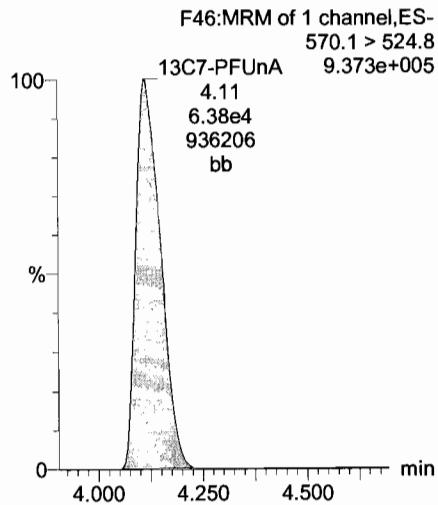
13C4-PFOS



13C6-PFDA



13C7-PFUnA



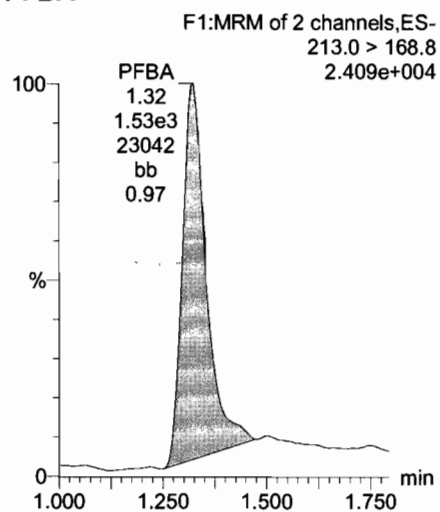
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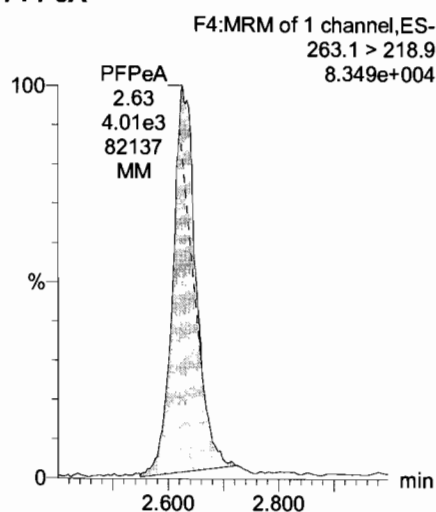
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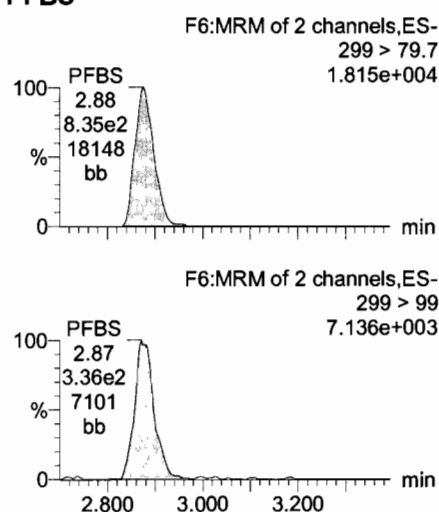
PFBA



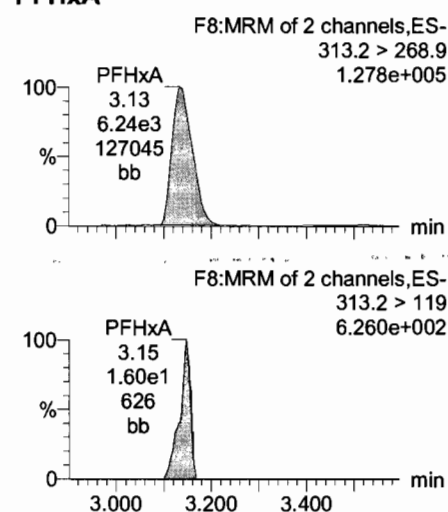
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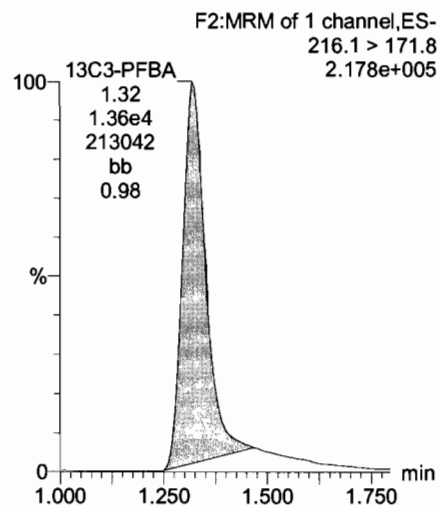
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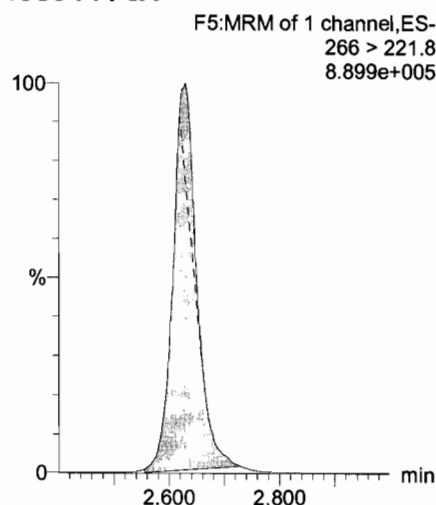
PFHxA



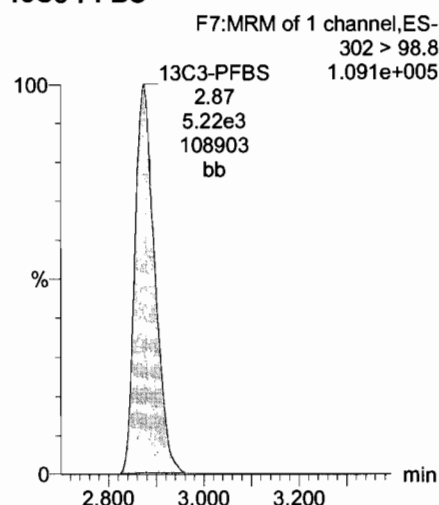
13C3-PFBA



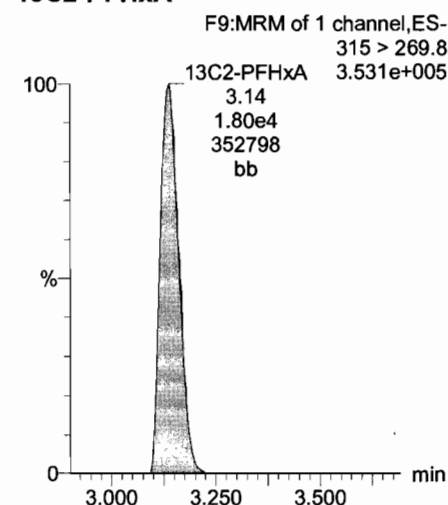
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



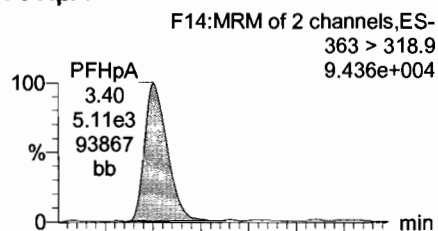
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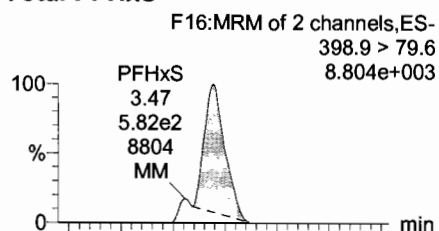
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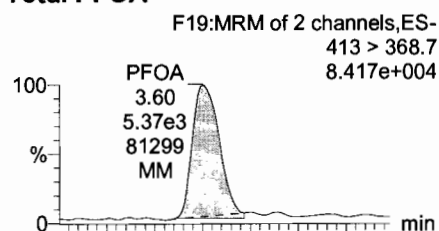
PFHpA



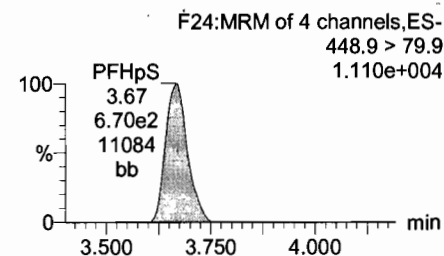
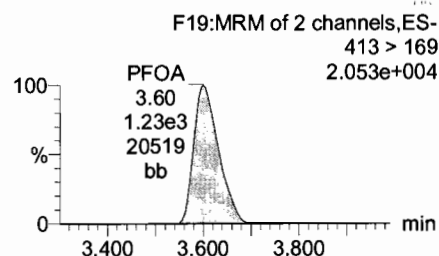
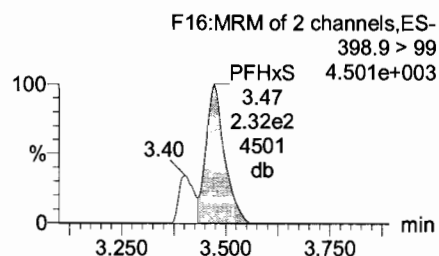
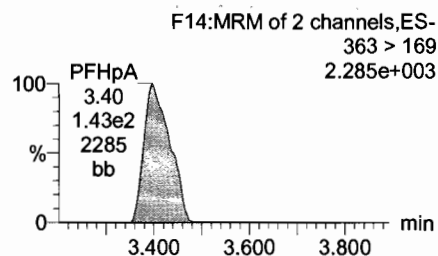
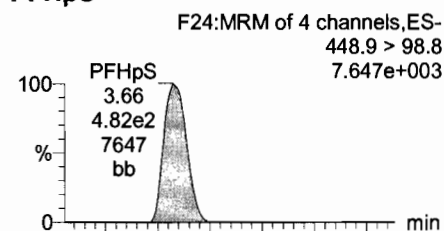
Total PFHxS



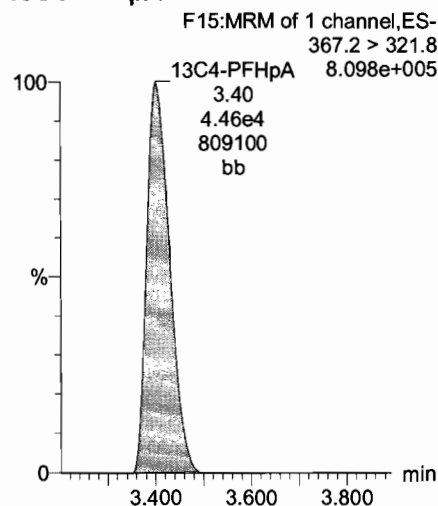
Total PFOA



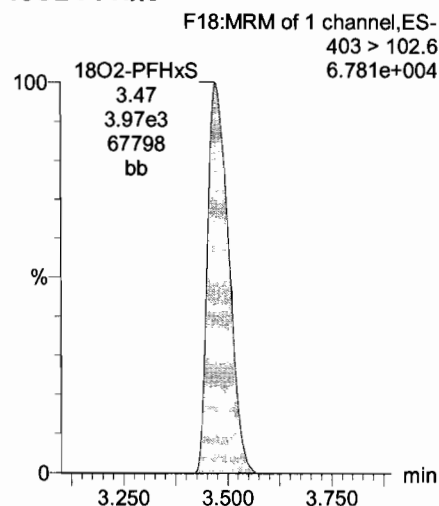
PFHpS



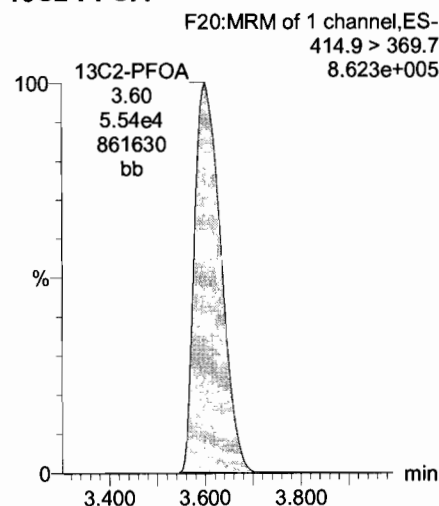
13C4-PFHpA



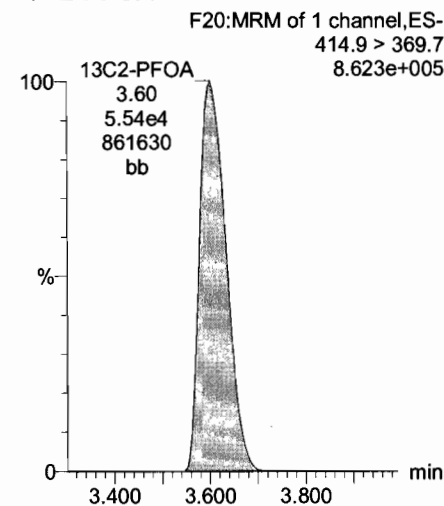
18O2-PFHxS



13C2-PFOA



13C2-PFOA



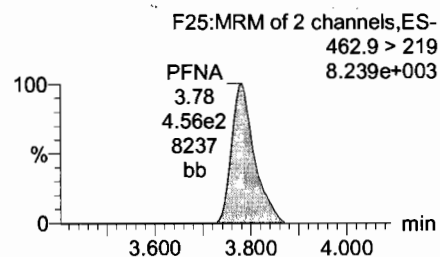
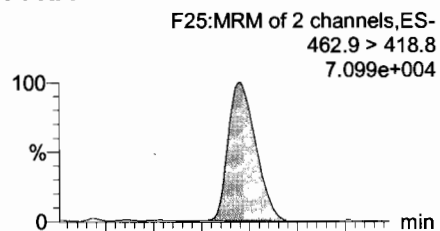
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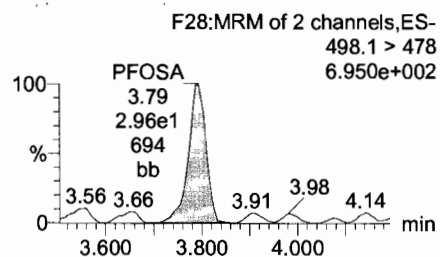
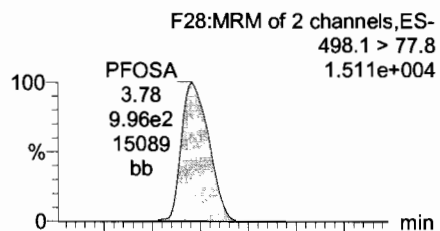
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Name: 170727M1_8, Date: 27-Jul-2017, Time: 12:09:28, ID: ST170727M1-3 PFC CS0 17G2706, Description: PFC CS0 17G2706

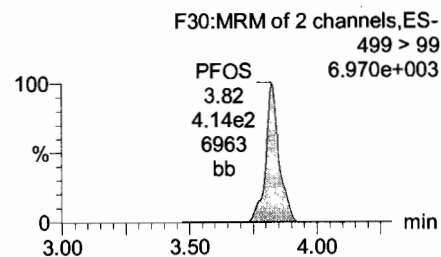
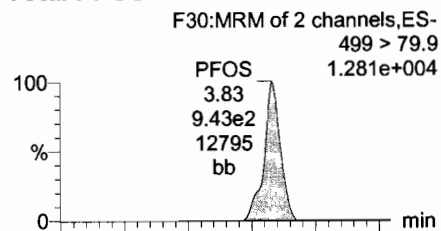
PFNA



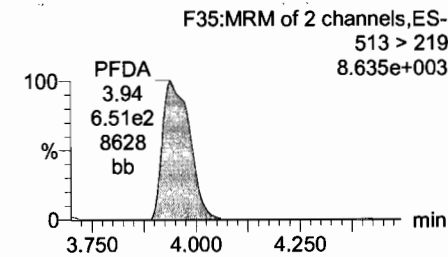
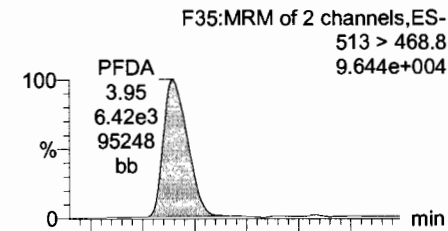
PFOSA



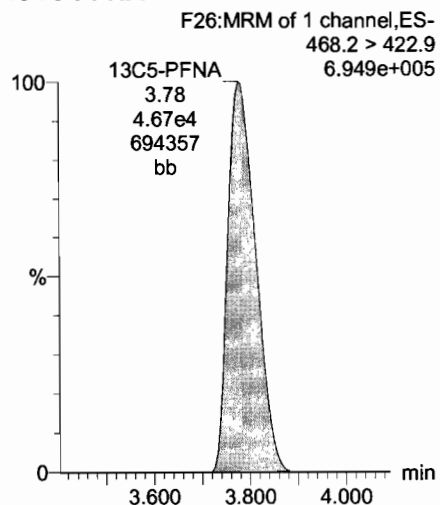
Total PFOS



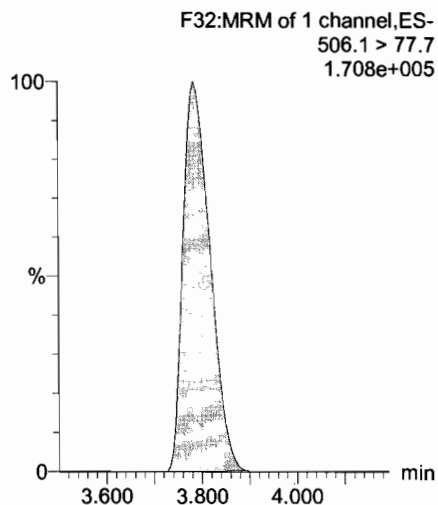
PFDA



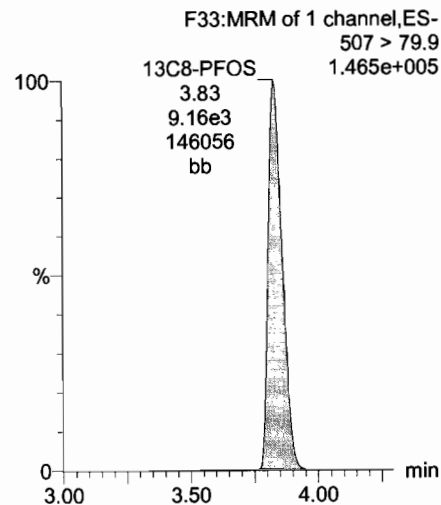
13C5-PFNA



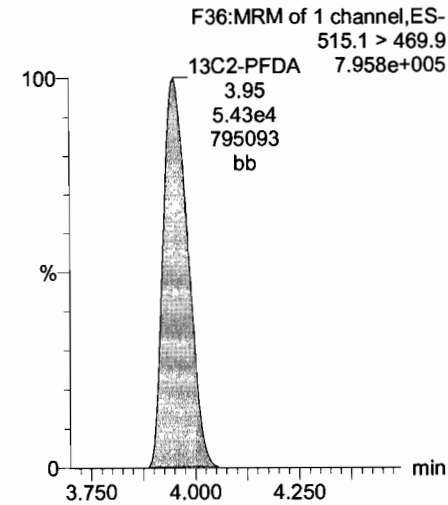
13C8-PFOSA



13C8-PFOS



13C2-PFDA



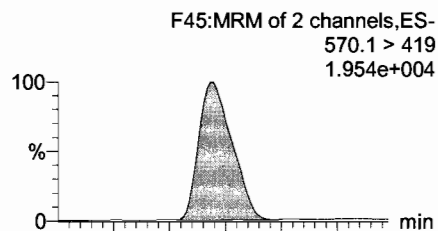
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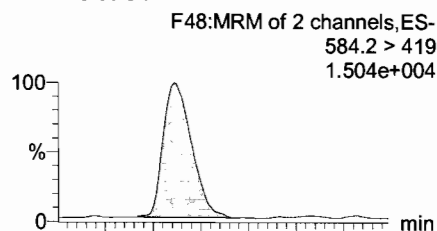
Printed: Friday, July 28, 2017 09:03:52 Pacific Daylight Time

Name: 170727M1_8, Date: 27-Jul-2017, Time: 12:09:28, ID: ST170727M1-3 PFC CS0 17G2706, Description: PFC CS0 17G2706

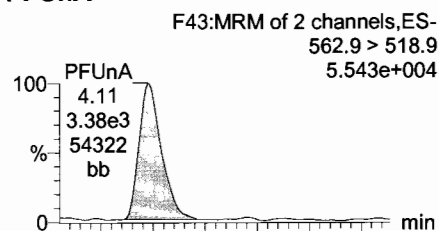
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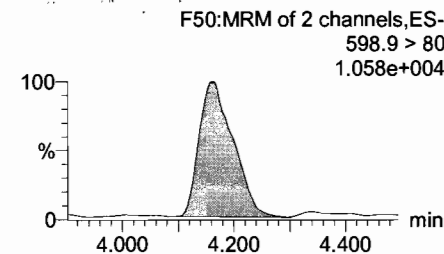
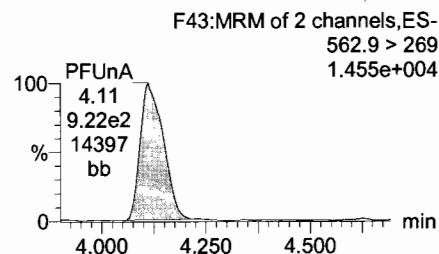
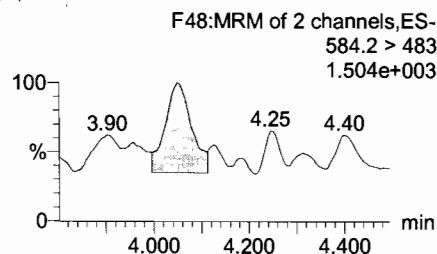
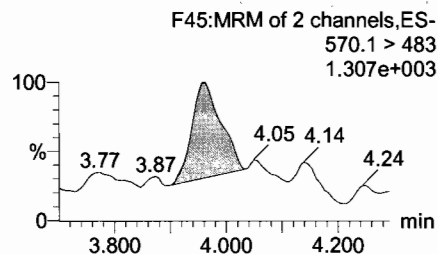
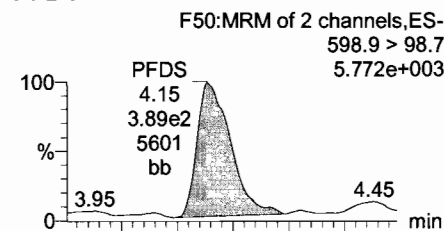
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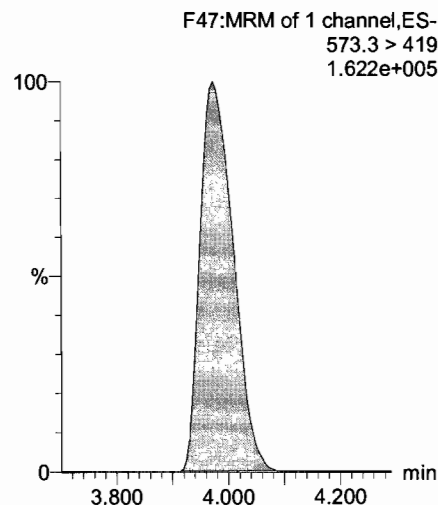
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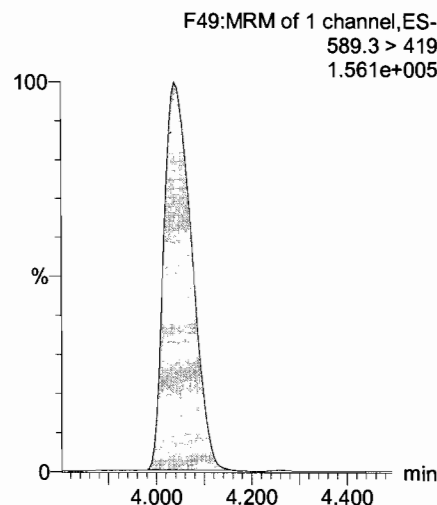
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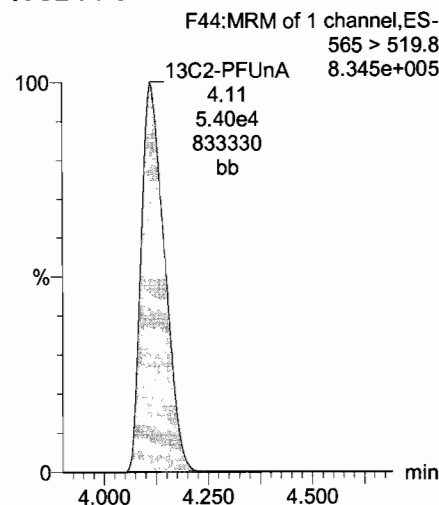
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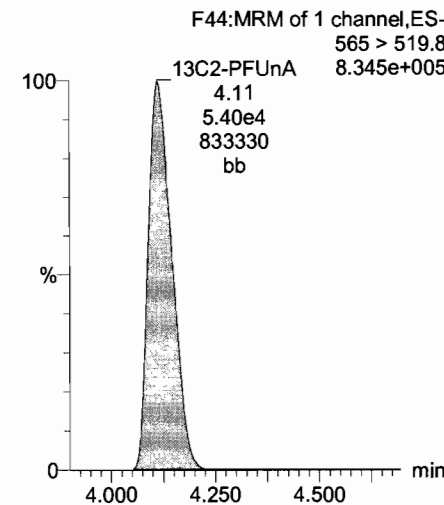
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13C2-PFUnA



13C2-PFUnA



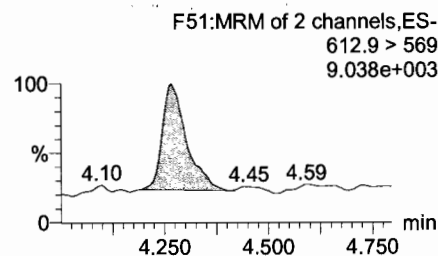
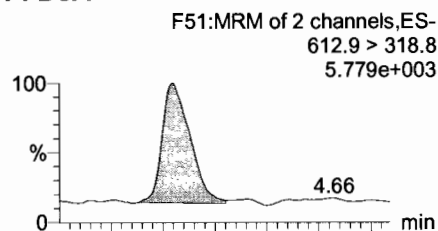
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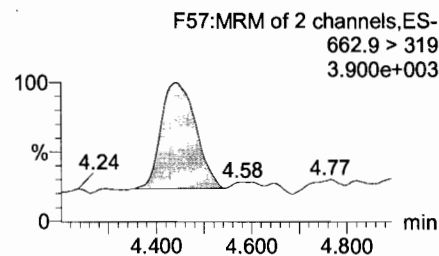
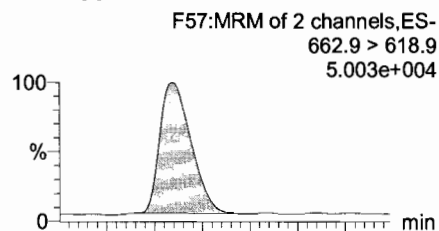
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Name: 170727M1_8, Date: 27-Jul-2017, Time: 12:09:28, ID: ST170727M1-3 PFC CS0 17G2706, Description: PFC CS0 17G2706

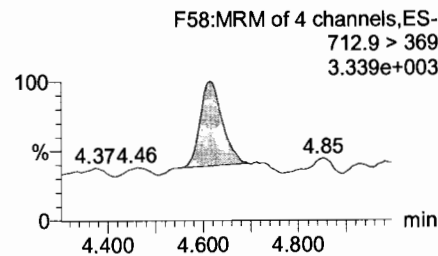
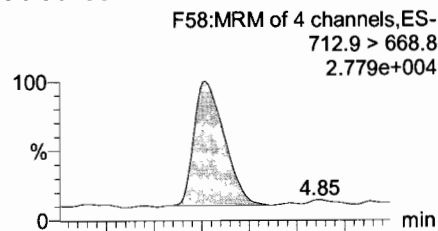
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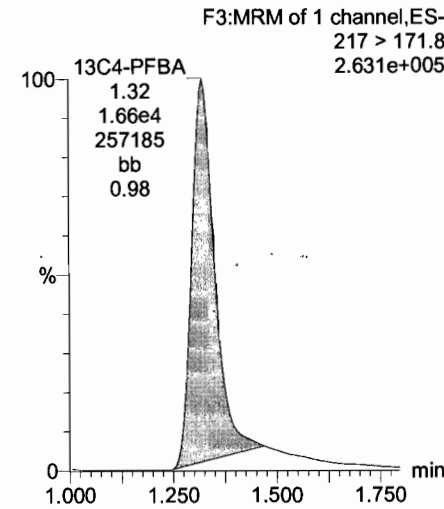
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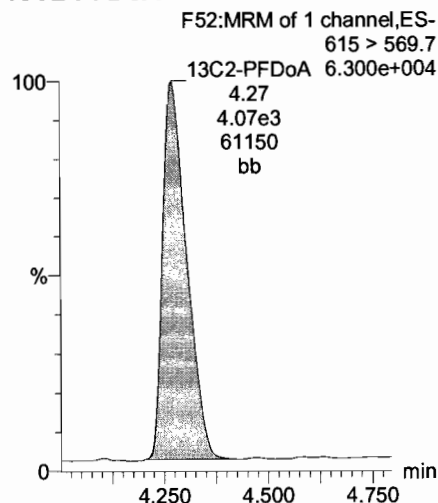
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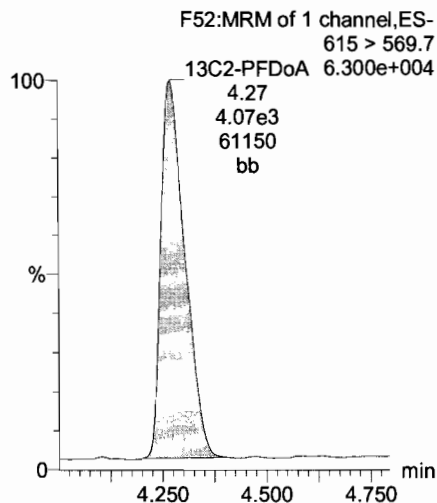
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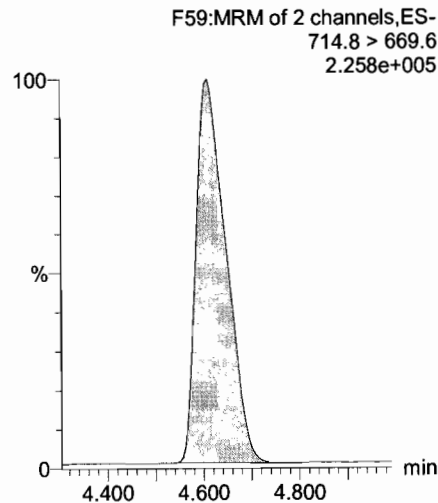
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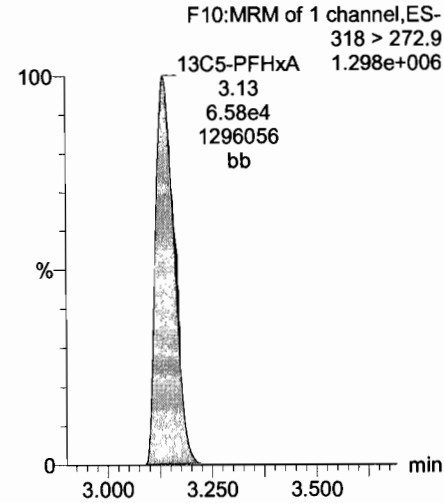
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¹³C2-PFT_eDA



¹³C5-PFHxA



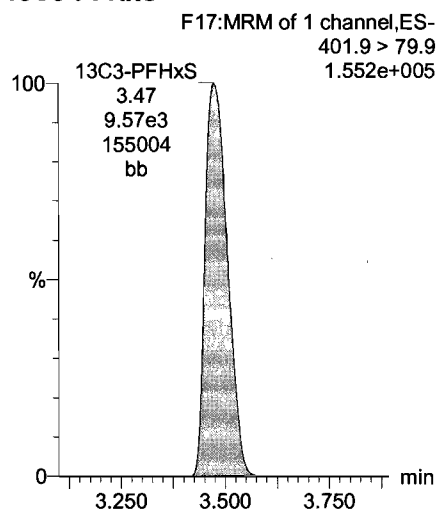
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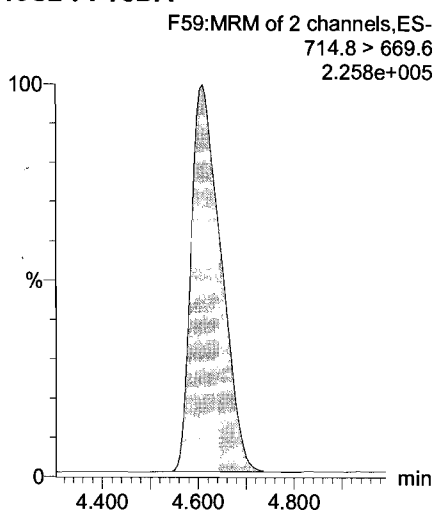
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Name: 170727M1_8, Date: 27-Jul-2017, Time: 12:09:28, ID: ST170727M1-3 PFC CS0 17G2706, Description: PFC CS0 17G2706

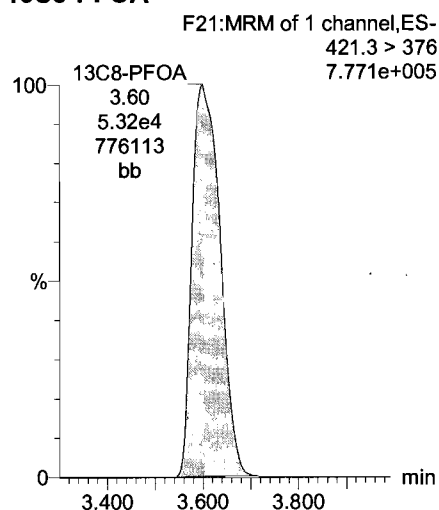
13C3-PFHxS



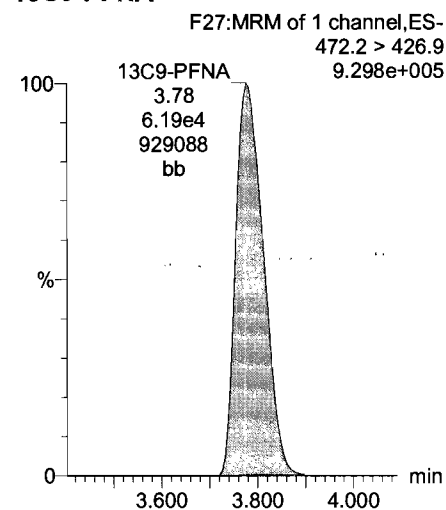
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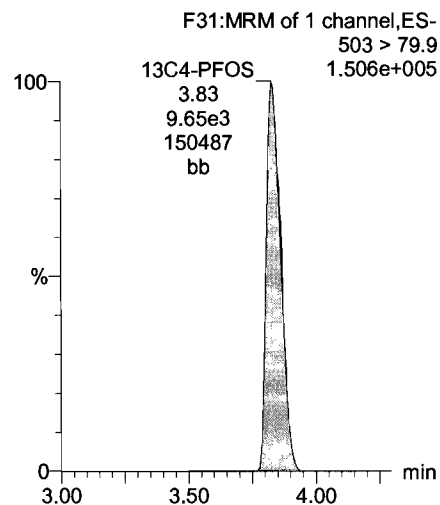
13C8-PFOA



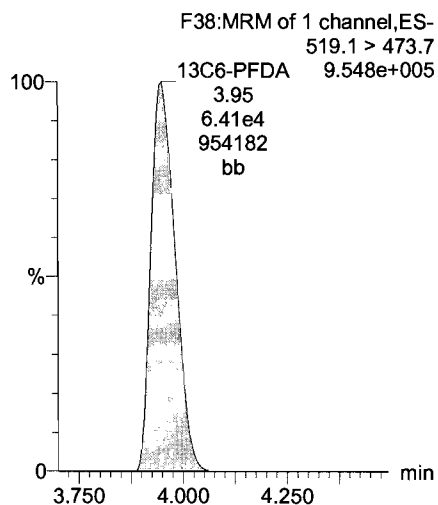
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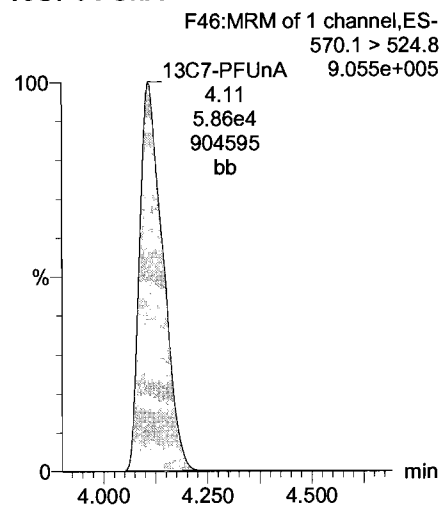
13C4-PFOS



13C6-PFDA



13C7-PFUnA



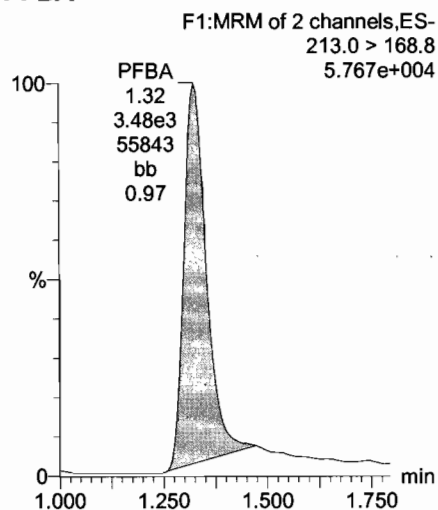
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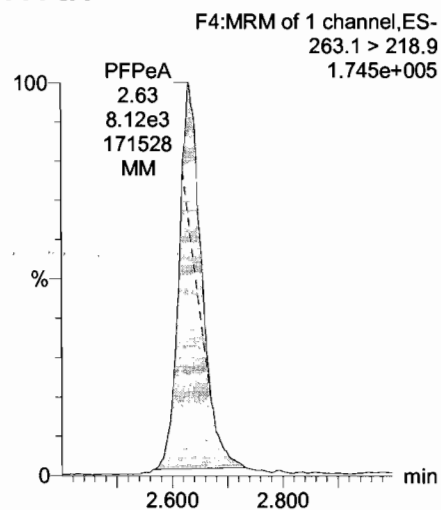
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Name: 170727M1_9, Date: 27-Jul-2017, Time: 12:20:15, ID: ST170727M1-4 PFC CS1 17G2707, Description: PFC CS1 17G2707

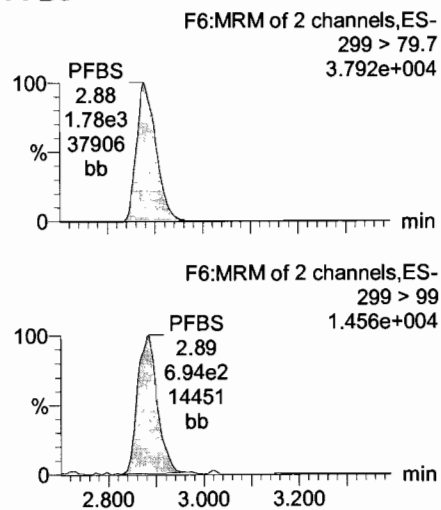
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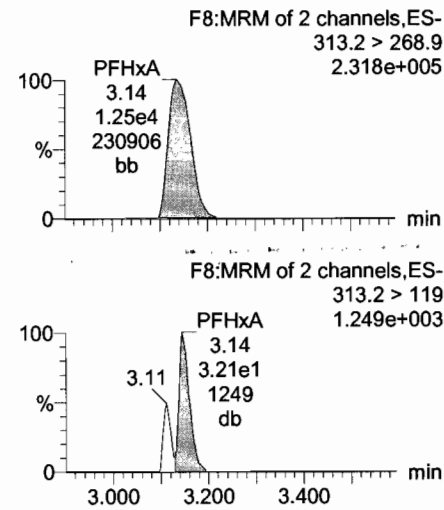
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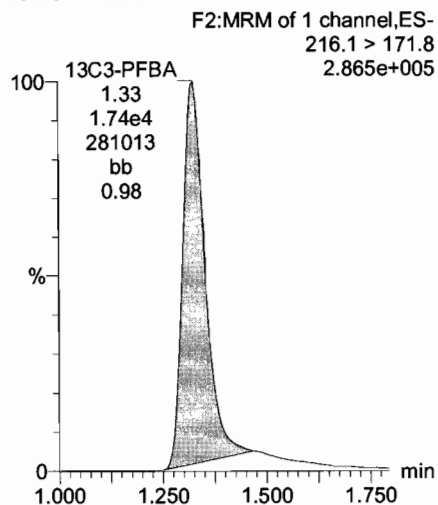
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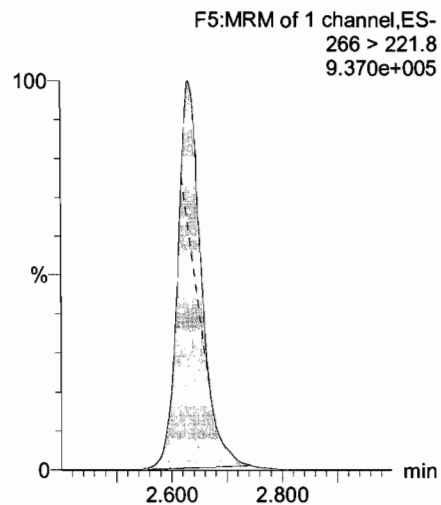
PFHxA



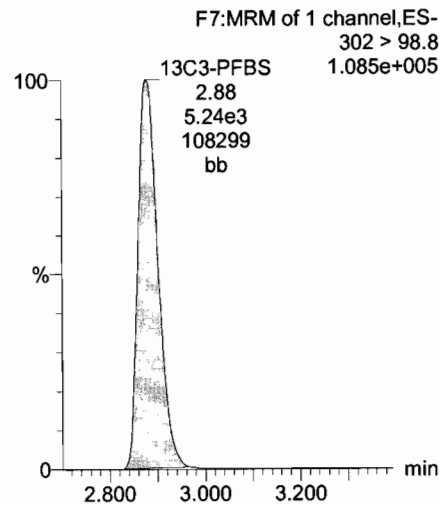
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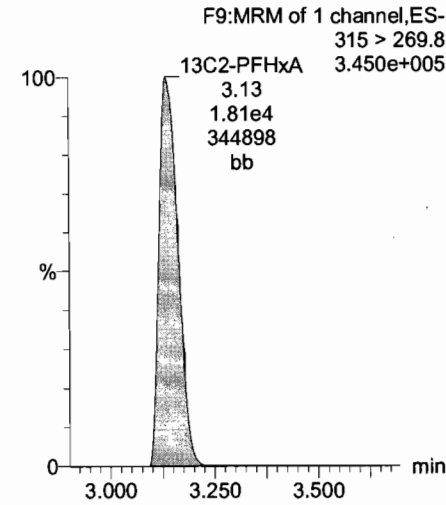
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13C3-PFBS



13C2-PFHxA



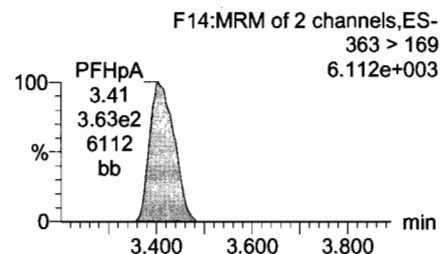
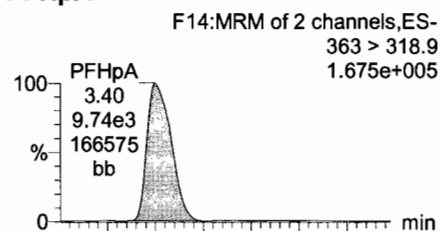
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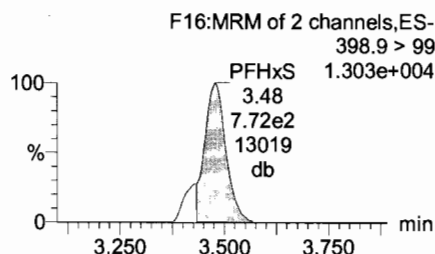
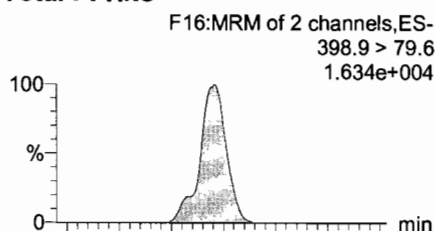
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Name: 170727M1_9, Date: 27-Jul-2017, Time: 12:20:15, ID: ST170727M1-4 PFC CS1 17G2707, Description: PFC CS1 17G2707

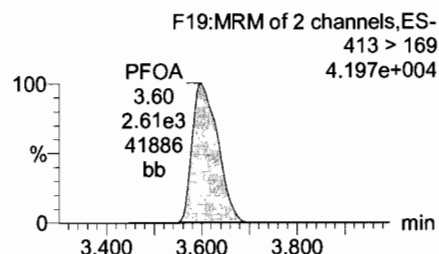
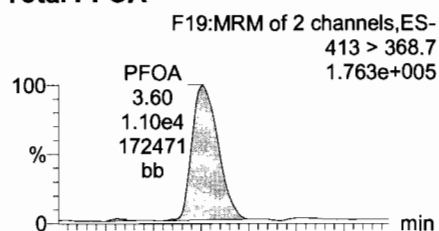
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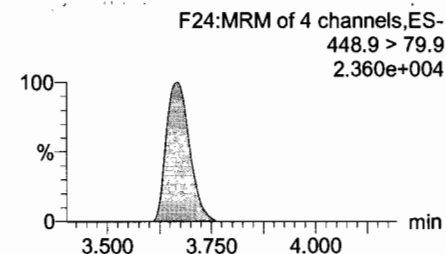
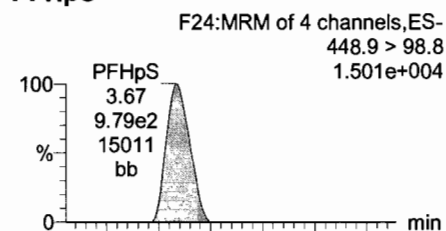
Total PFHxS



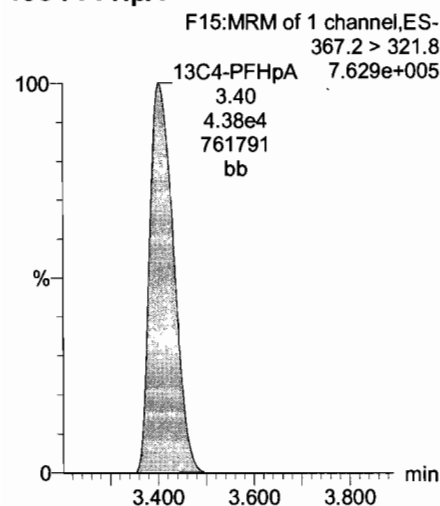
Total PFOA



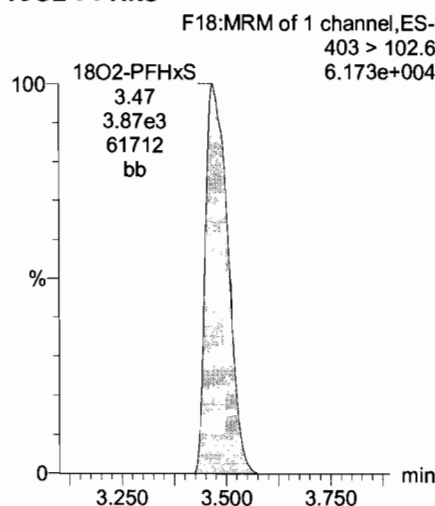
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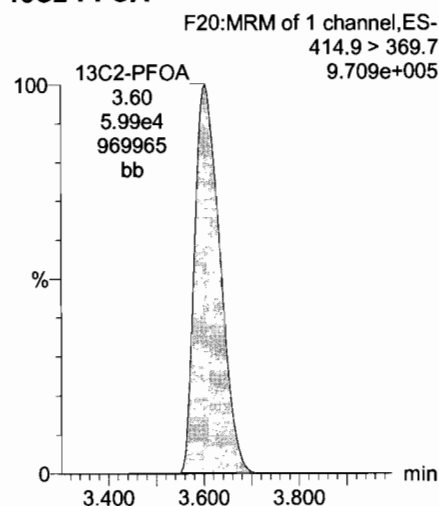
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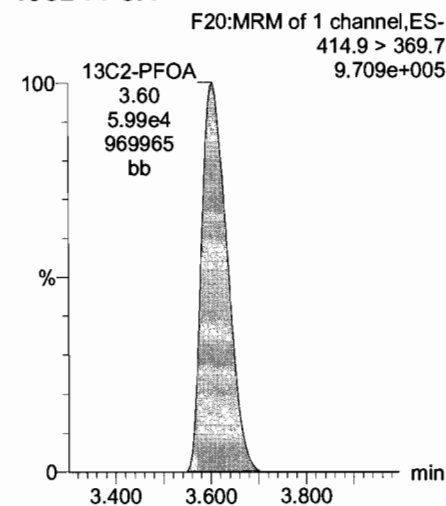
18O2-PFHxS



13C2-PFOA



13C2-PFOA



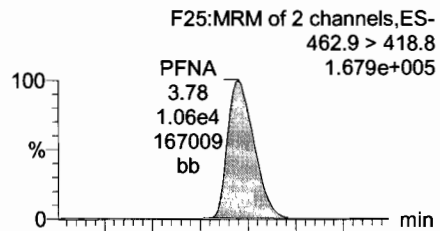
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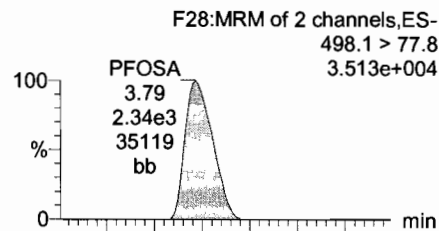
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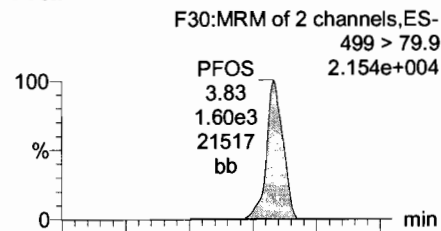
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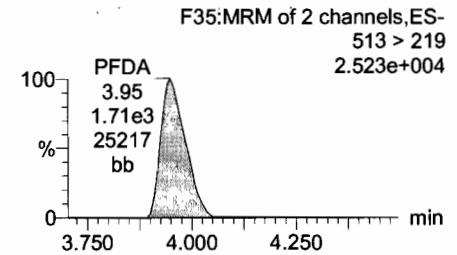
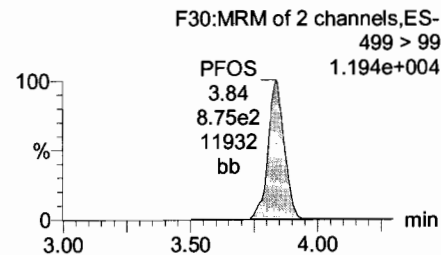
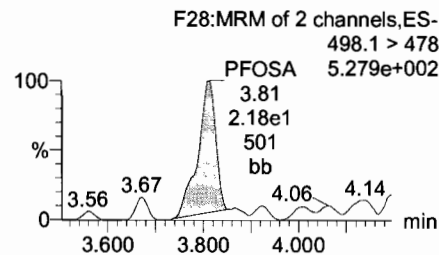
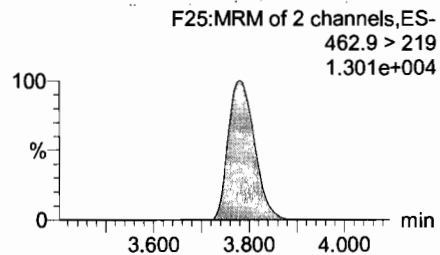
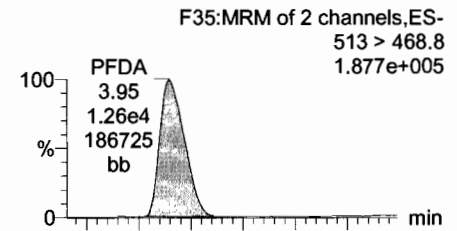
PFOSA



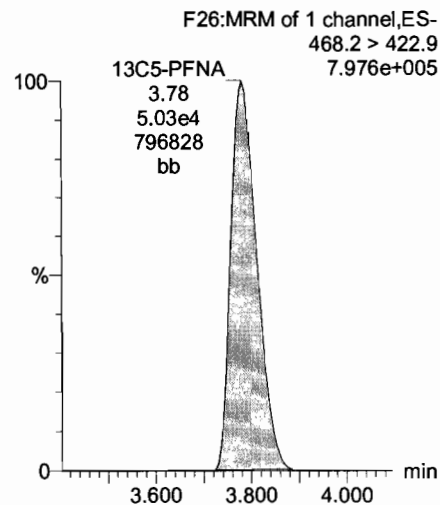
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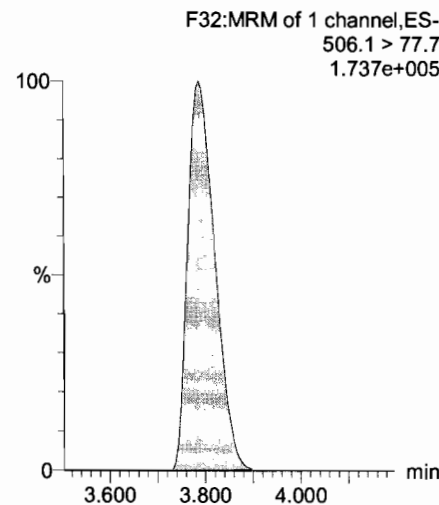
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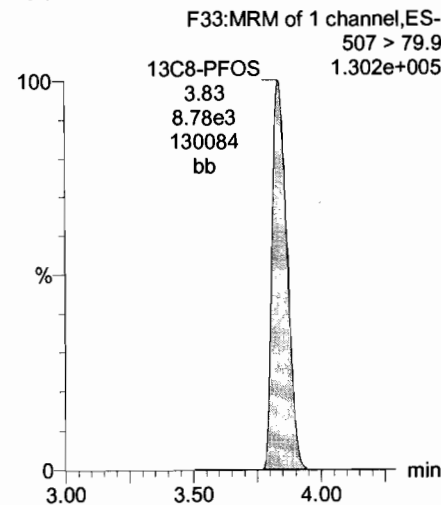
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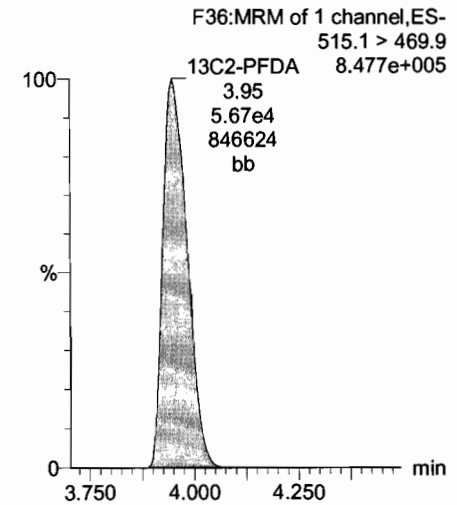
13C8-PFOSA



13C8-PFOS



13C2-PFDA



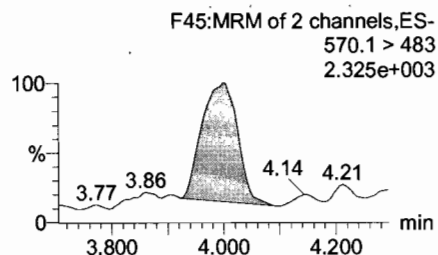
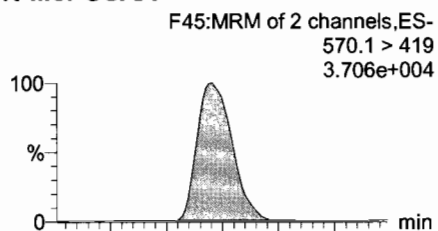
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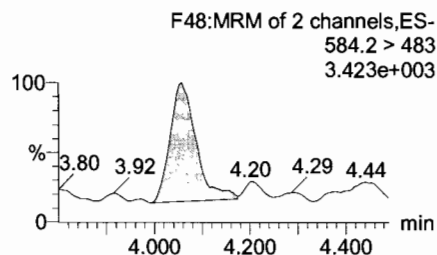
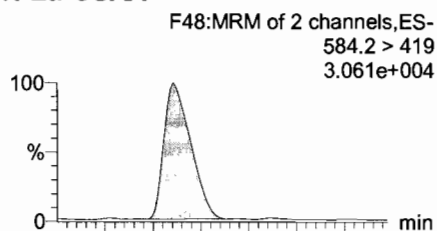
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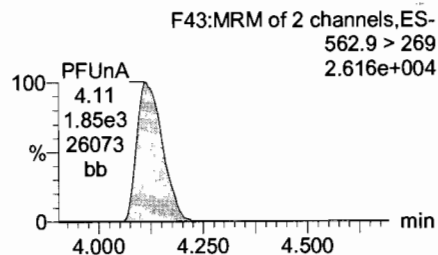
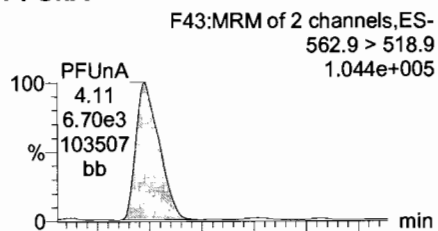
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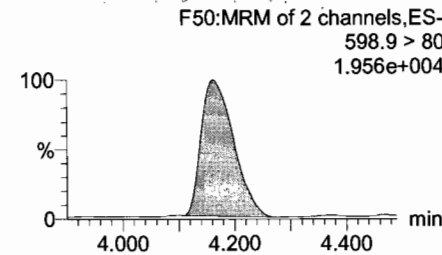
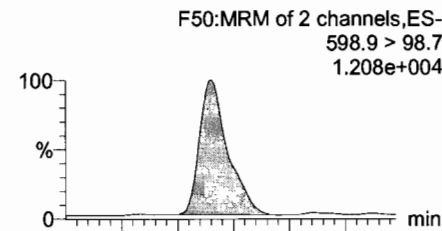
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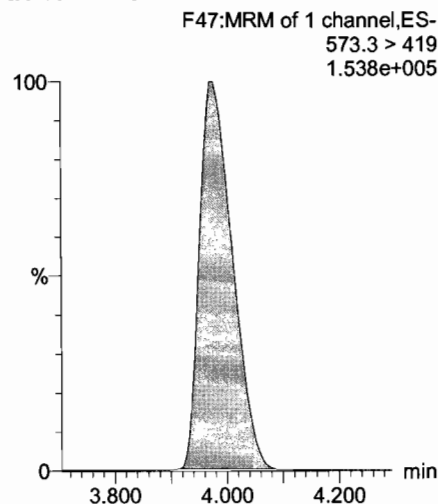
PFUnA



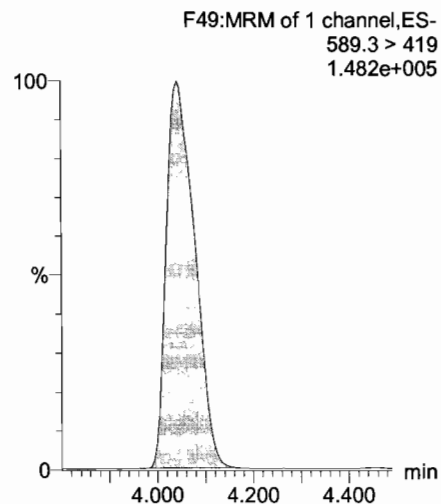
PFDS



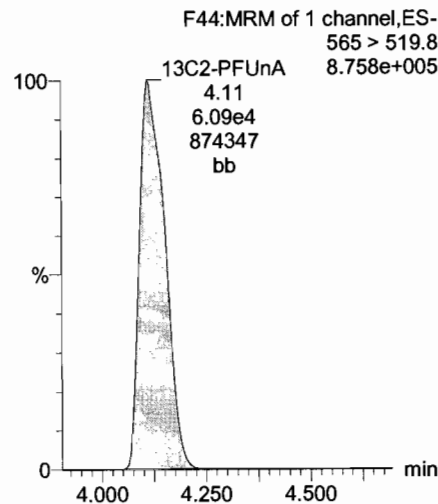
d3-N-MeFOSAA



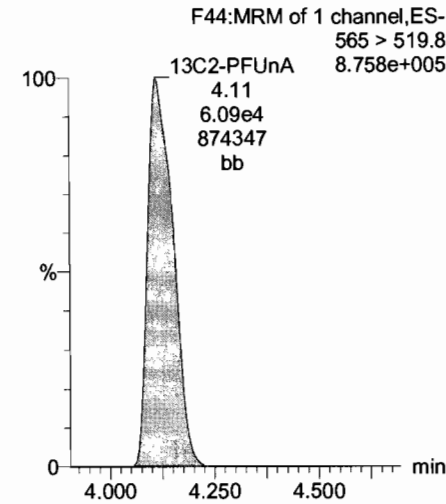
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13C2-PFUnA



13C2-PFUnA



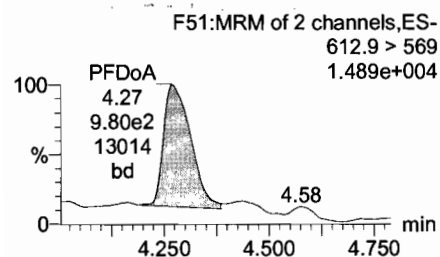
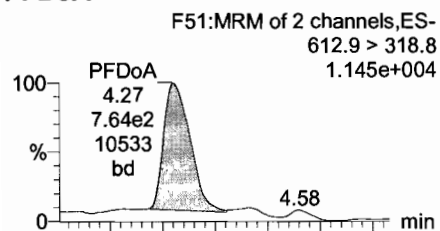
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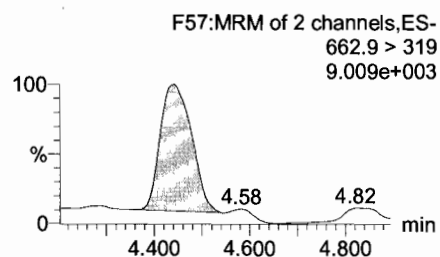
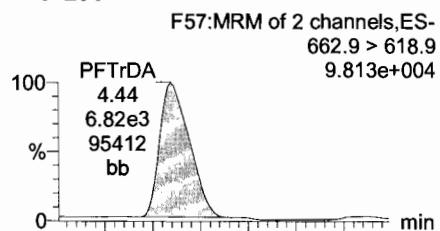
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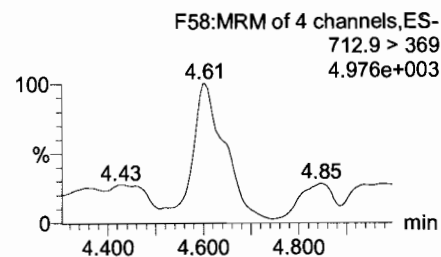
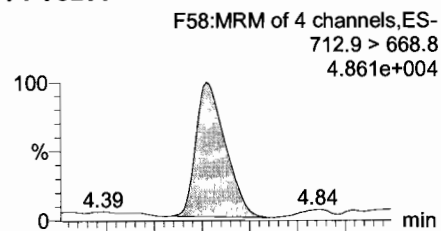
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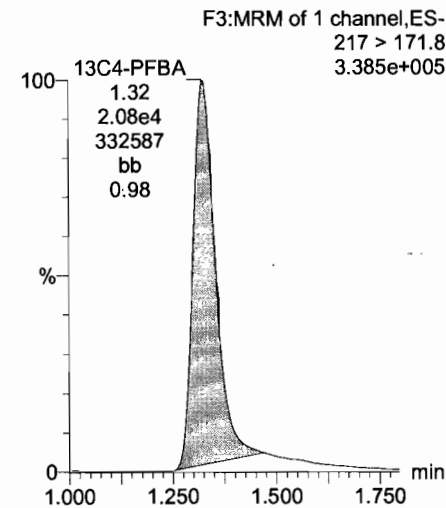
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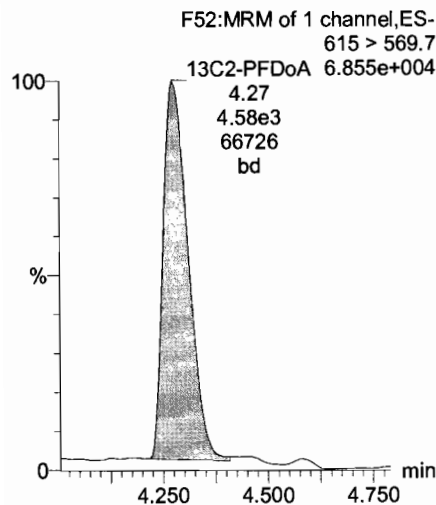
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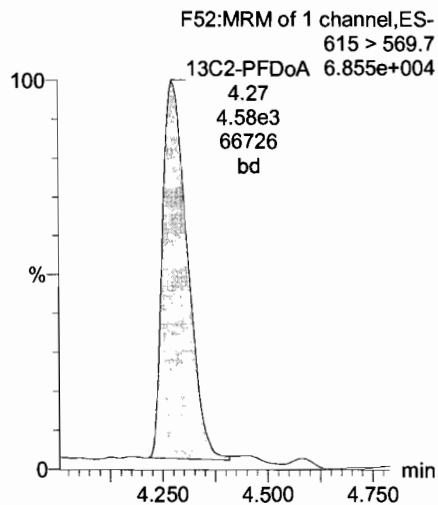
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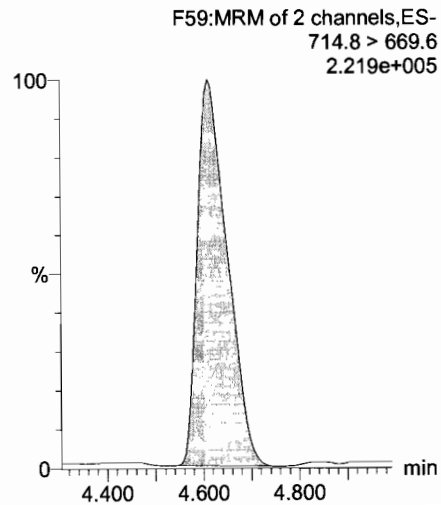
13C2-PFDaA



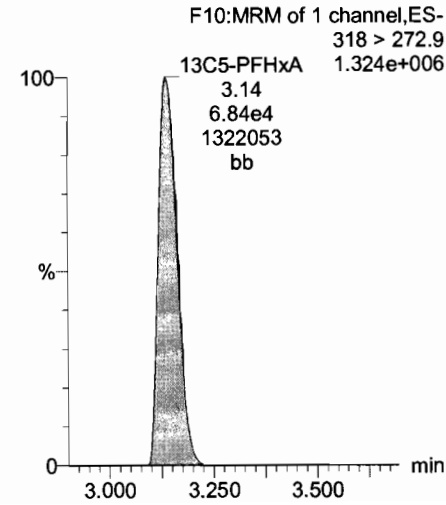
13C2-PFDaA



13C2-PFTeDA



13C5-PFHxA



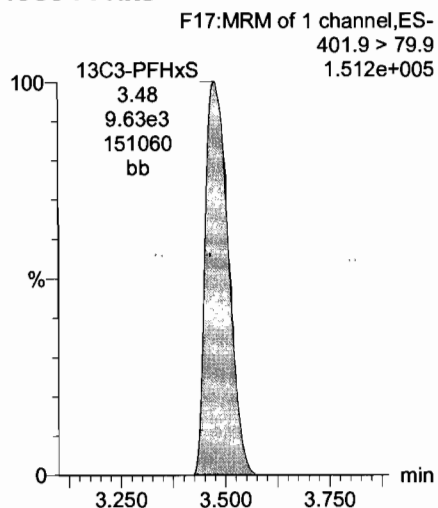
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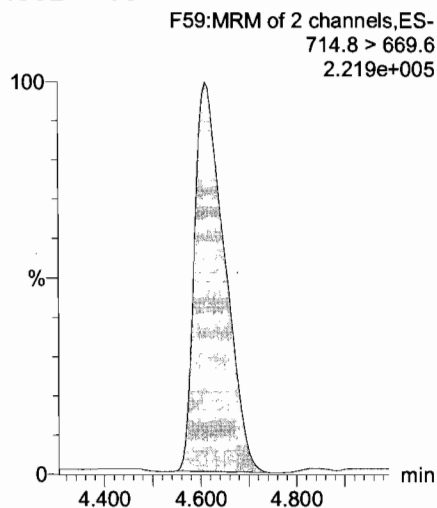
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Name: 170727M1_9, Date: 27-Jul-2017, Time: 12:20:15, ID: ST170727M1-4 PFC CS1 17G2707, Description: PFC CS1 17G2707

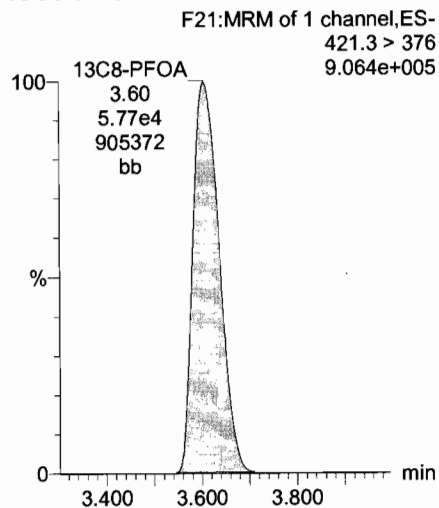
13C3-PFHxS



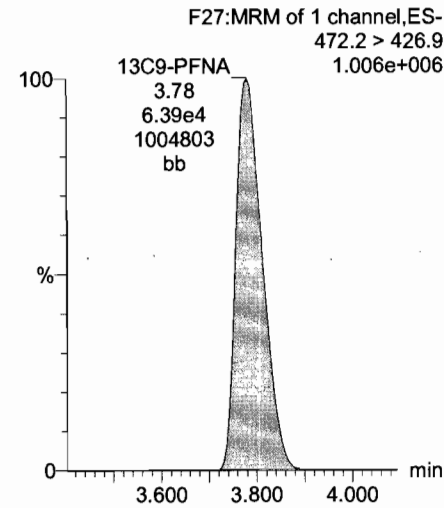
13C2-PFTeDA



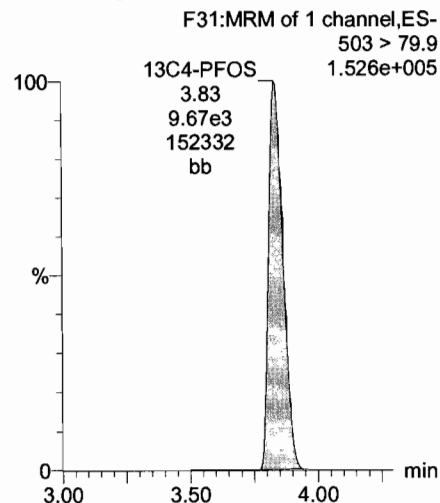
13C8-PFOA



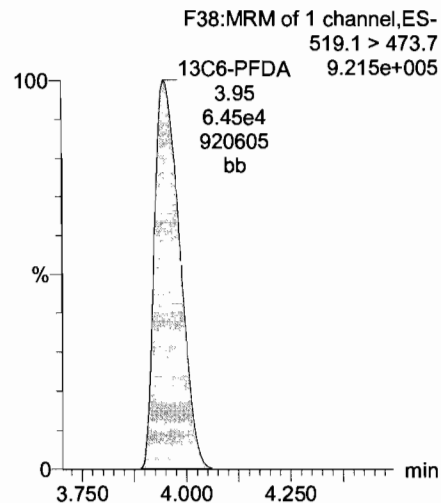
13C9-PFNA



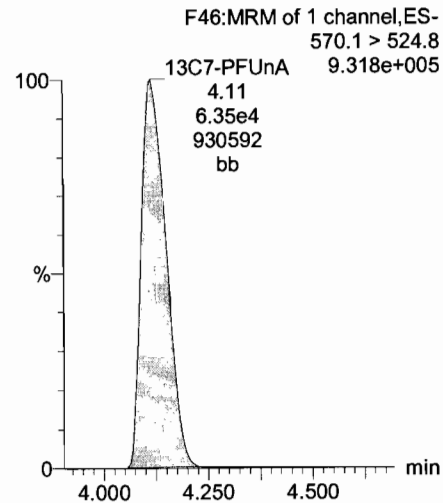
13C4-PFOS



13C6-PFDA



13C7-PFUnA



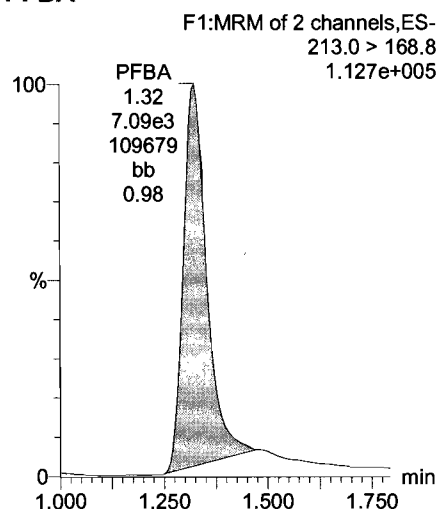
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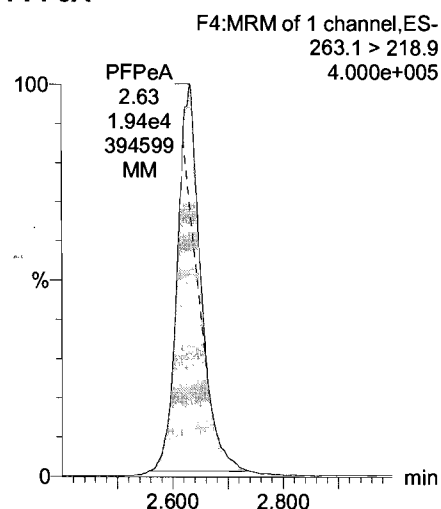
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Name: 170727M1_10, Date: 27-Jul-2017, Time: 12:30:53, ID: ST170727M1-5 PFC CS2 17G2708, Description: PFC CS2 17G2708

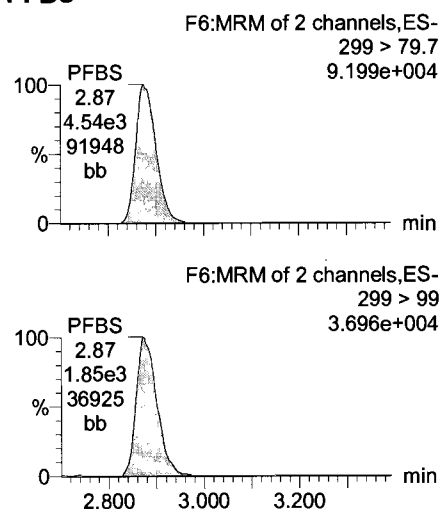
PFBA



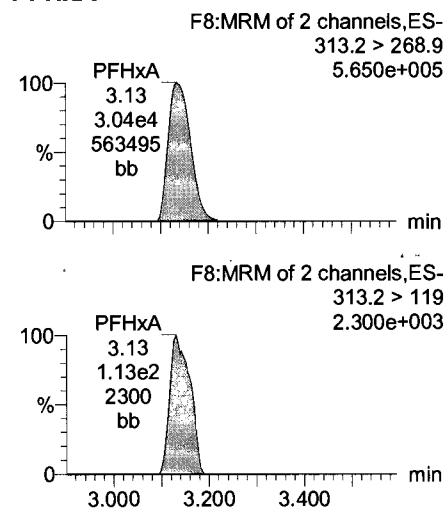
PFPeA



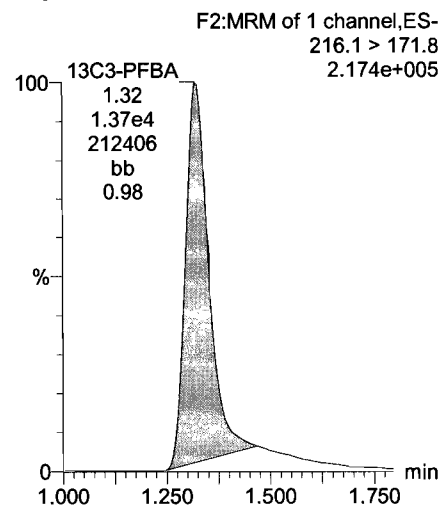
PFBS



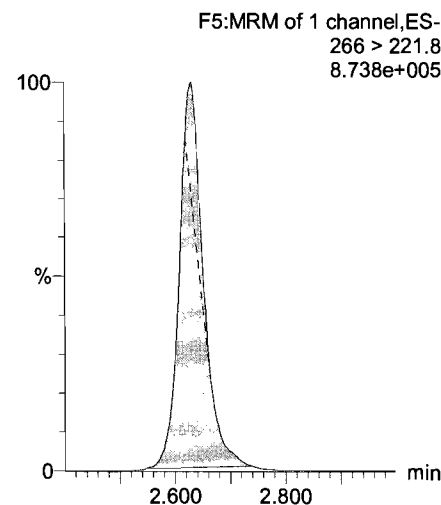
PFHxA



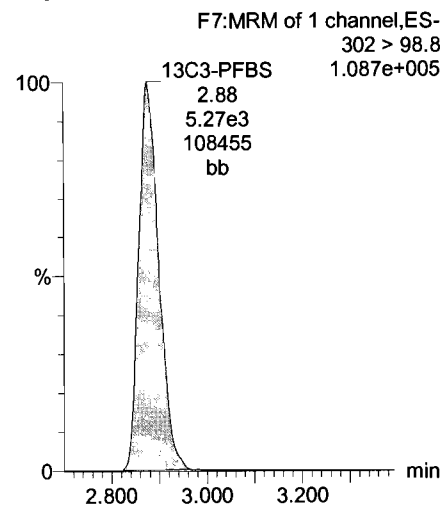
13C3-PFBA



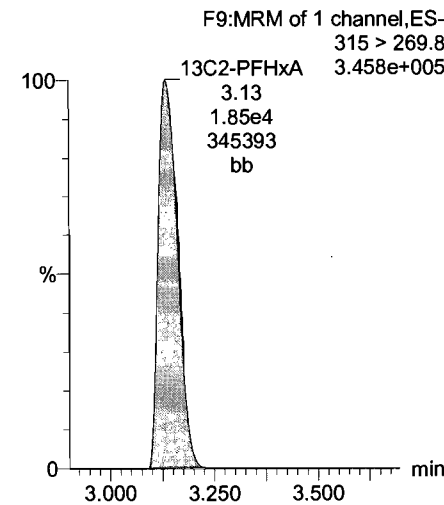
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



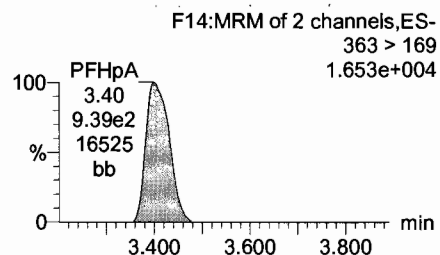
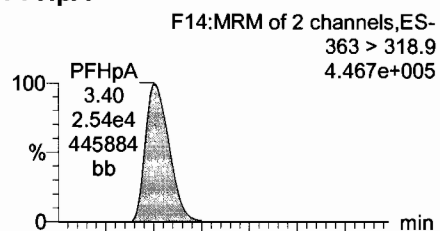
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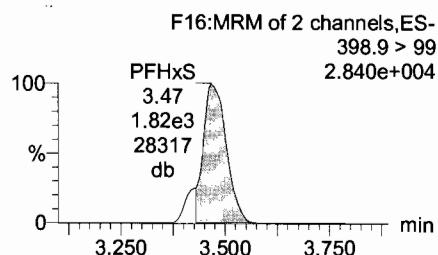
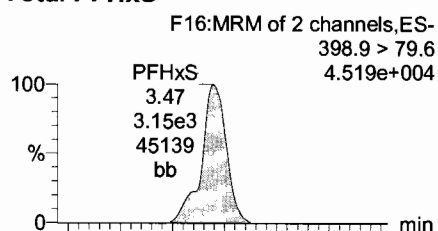
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Name: 170727M1_10, Date: 27-Jul-2017, Time: 12:30:53, ID: ST170727M1-5 PFC CS2 17G2708, Description: PFC CS2 17G2708

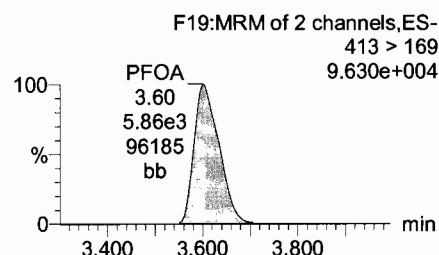
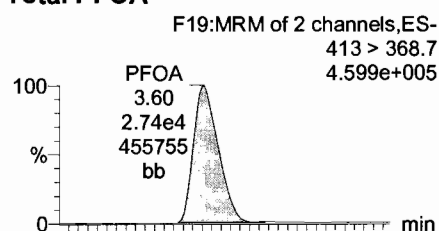
PFHpA



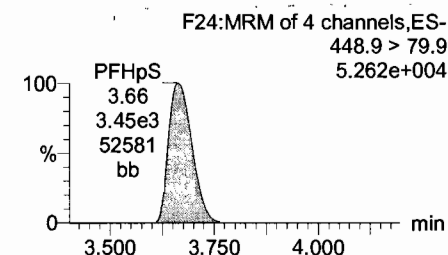
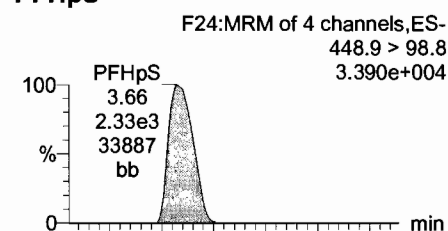
Total PFHxS



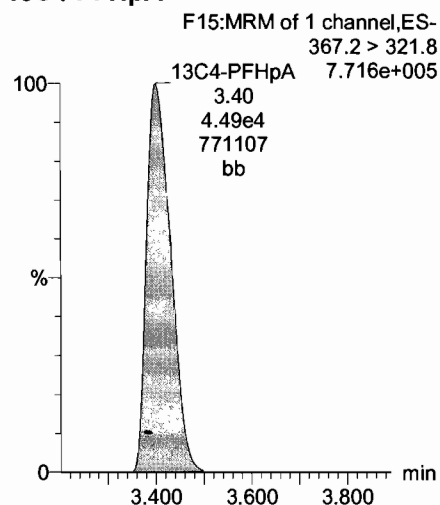
Total PFOA



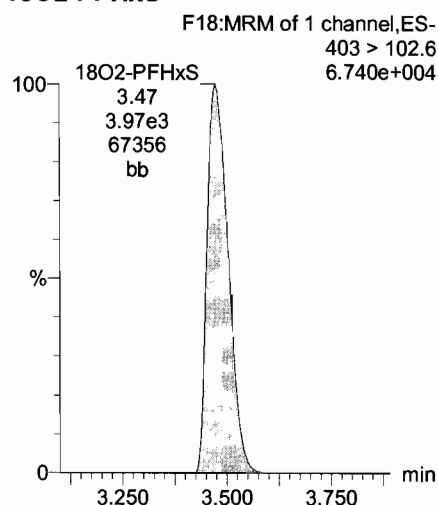
PFHpS



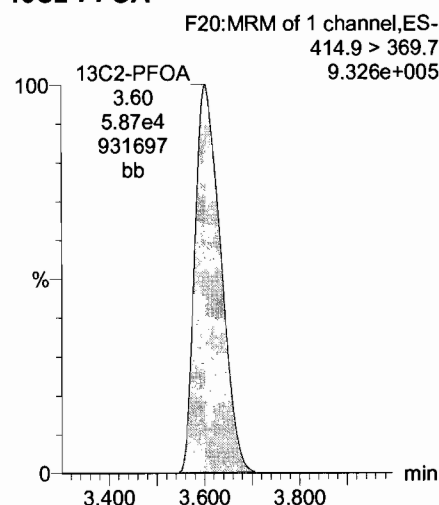
13C4-PFHpA



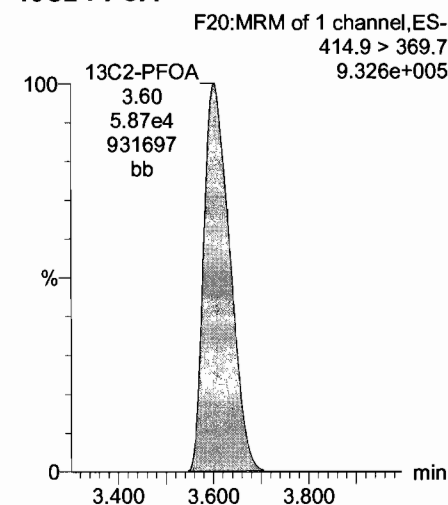
18O2-PFHxS



13C2-PFOA



13C2-PFOA



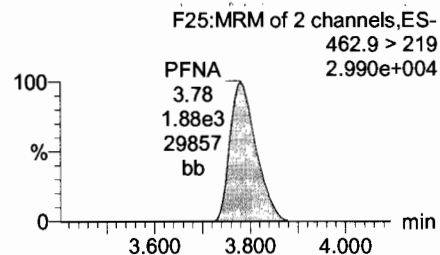
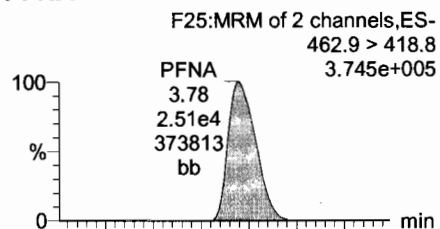
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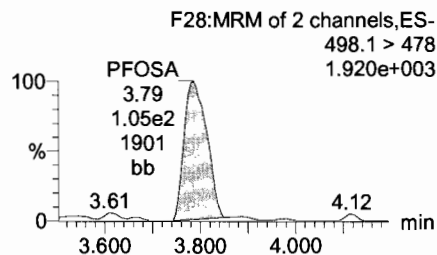
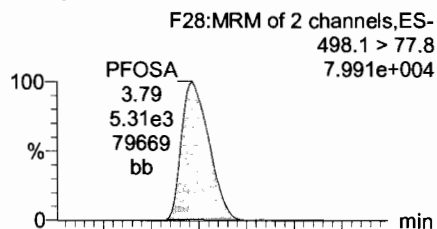
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Name: 170727M1_10, Date: 27-Jul-2017, Time: 12:30:53, ID: ST170727M1-5 PFC CS2 17G2708, Description: PFC CS2 17G2708

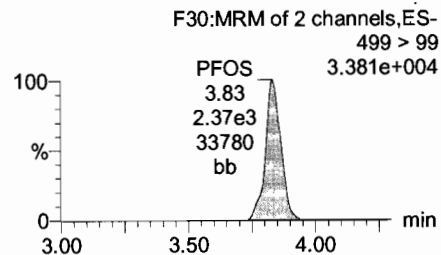
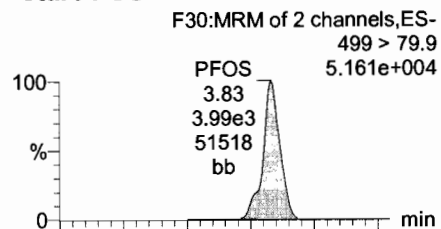
PFNA



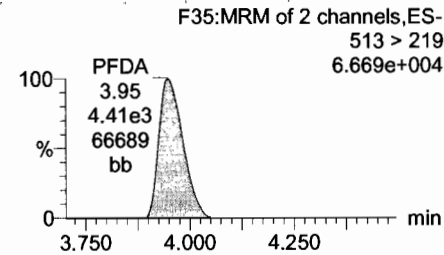
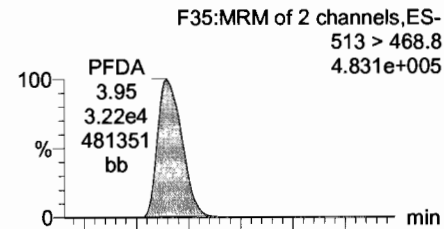
PFOSA



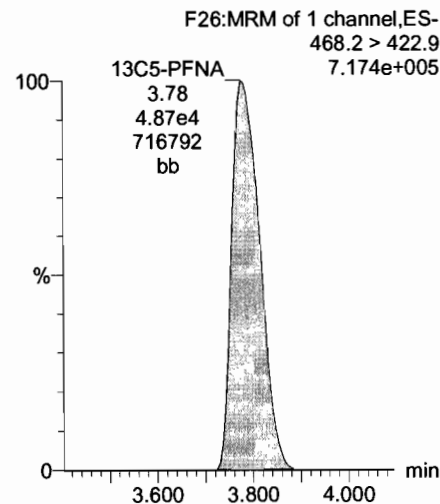
Total PFOS



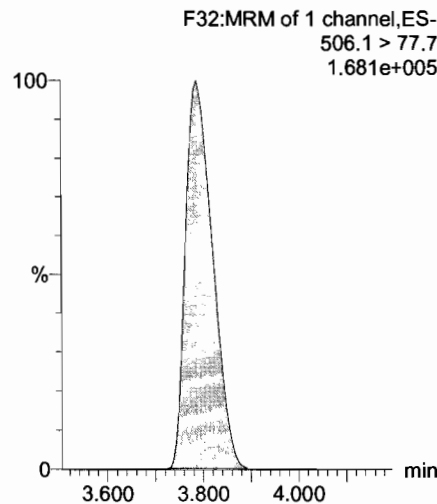
PFDA



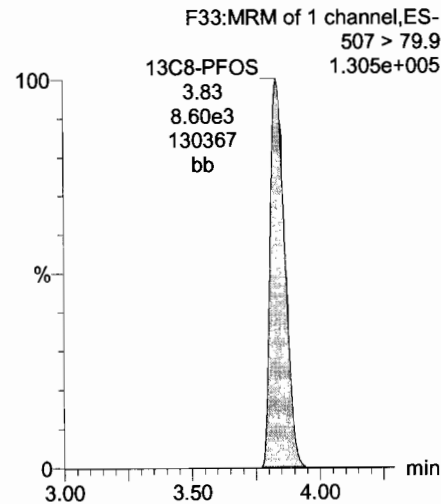
13C5-PFNA



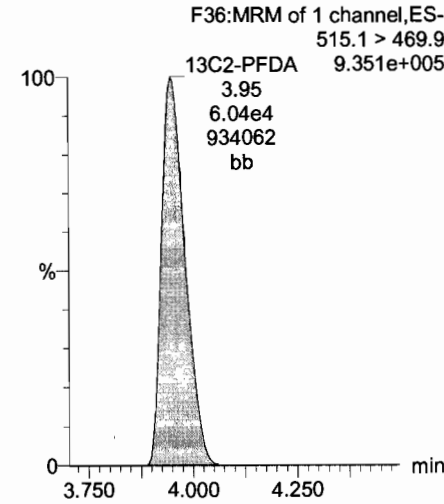
13C8-PFOSA



13C8-PFOS



13C2-PFDA



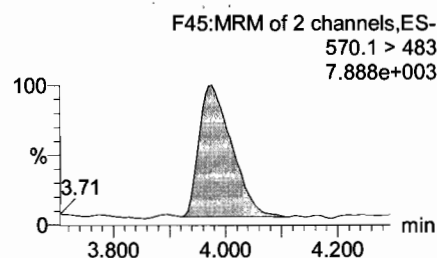
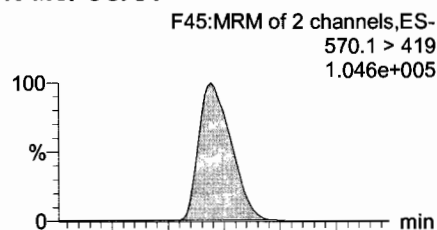
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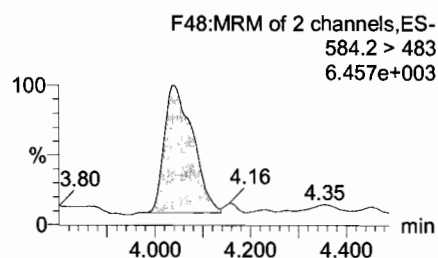
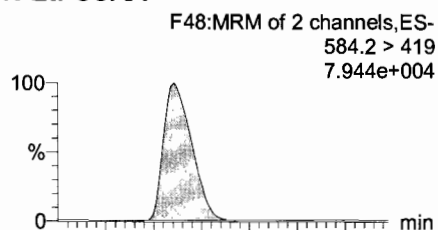
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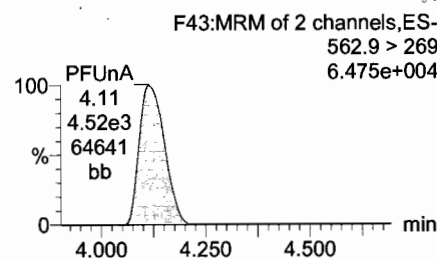
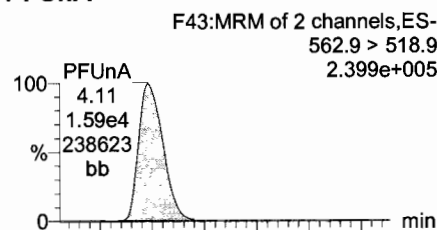
N-MeFOSAA



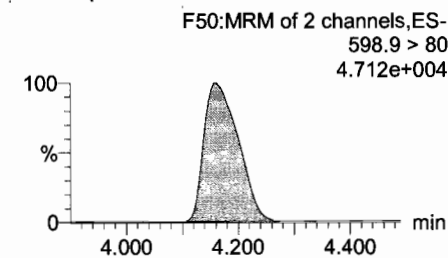
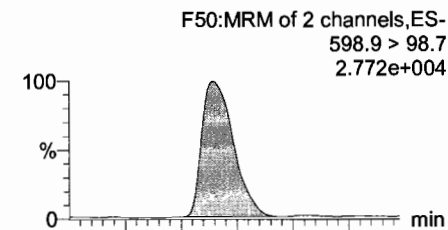
N-EtFOSAA



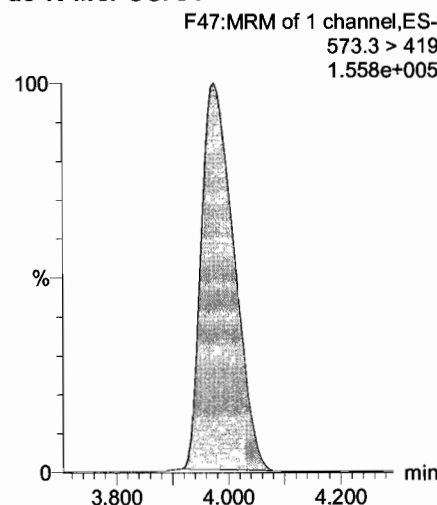
PFUnA



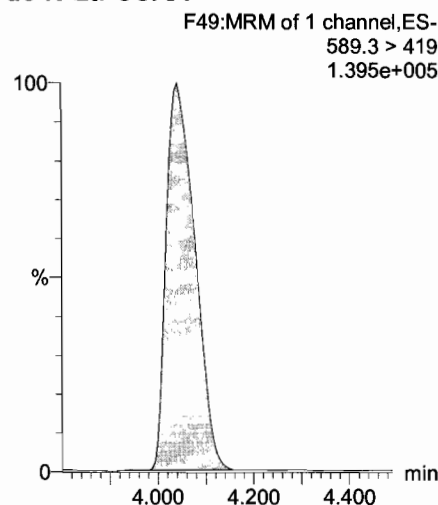
PFDS



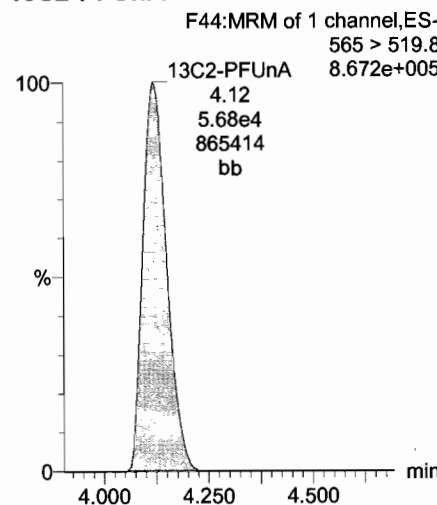
d3-N-MeFOSAA



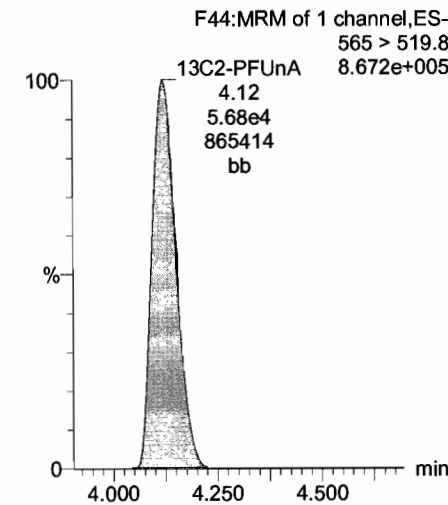
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



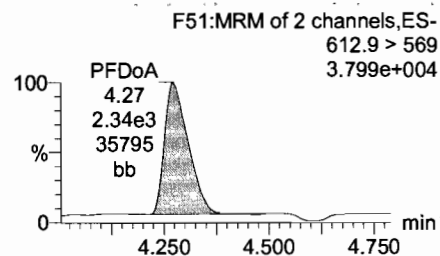
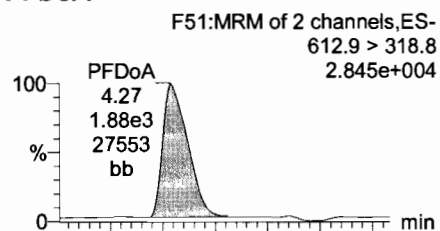
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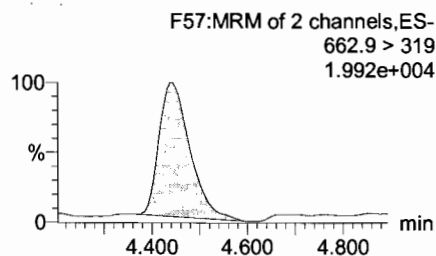
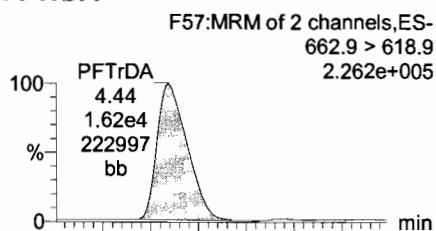
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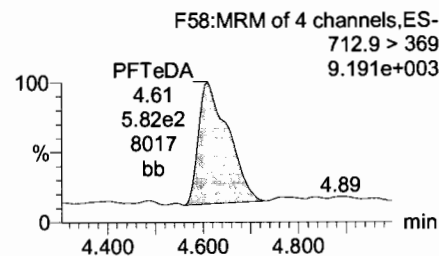
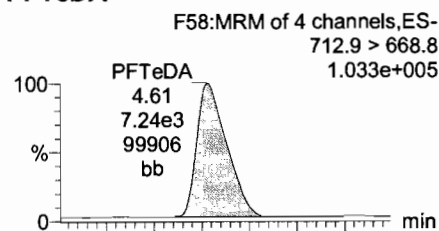
PFDaA



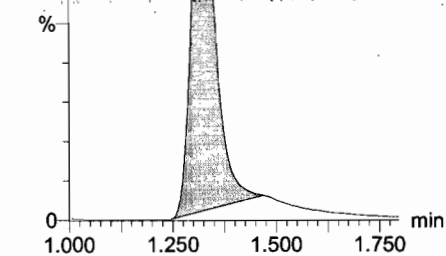
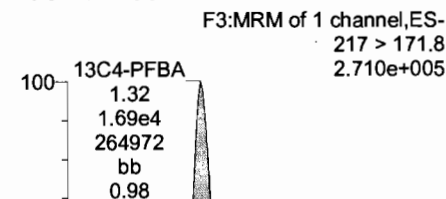
PFTrDA



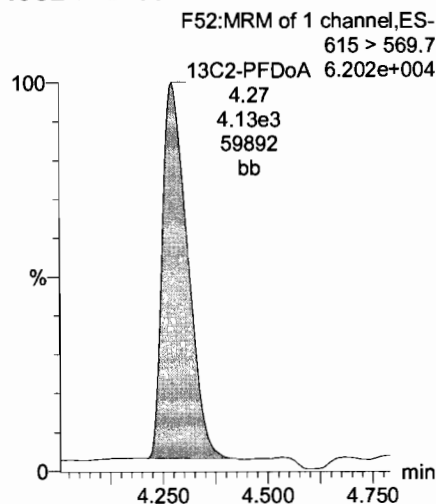
PFTeDA



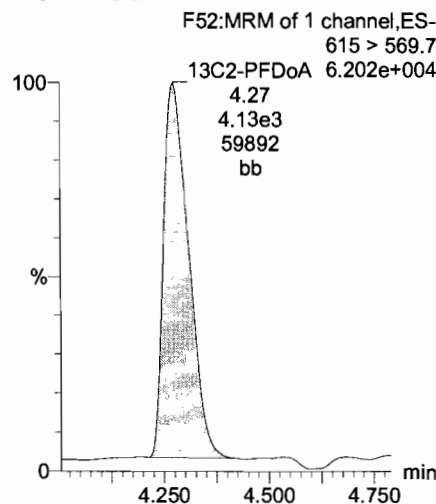
13C4-PFBA



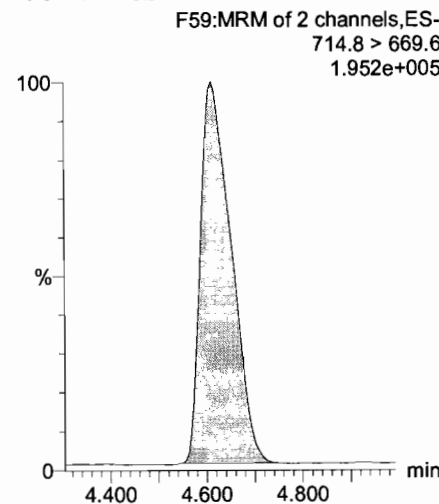
13C2-PFDaA



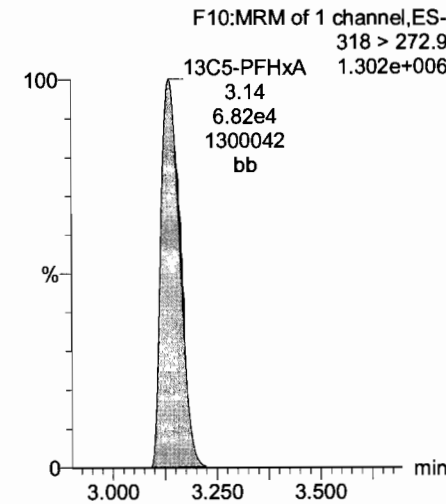
13C2-PFDaA



13C2-PFTeDA



13C5-PFHxA



Dataset: U:\Q4.PRO\results\170727M1\170727M1-CRV.qld

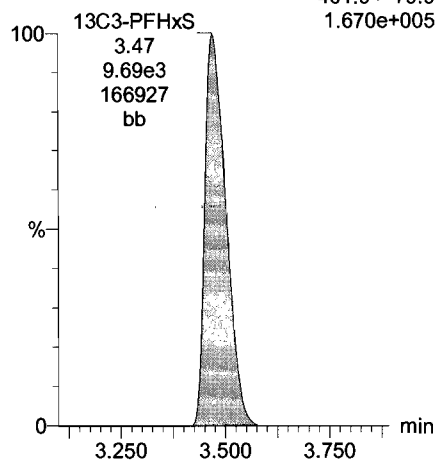
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Name: 170727M1_10, Date: 27-Jul-2017, Time: 12:30:53, ID: ST170727M1-5 PFC CS2 17G2708, Description: PFC CS2 17G2708

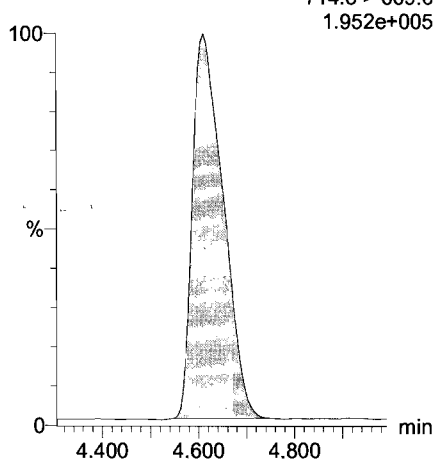
13C3-PFHxS

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.670e+005



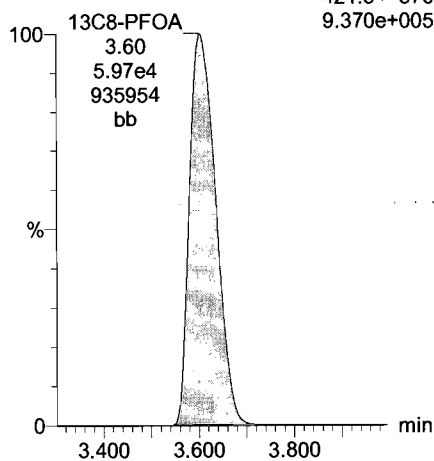
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
1.952e+005



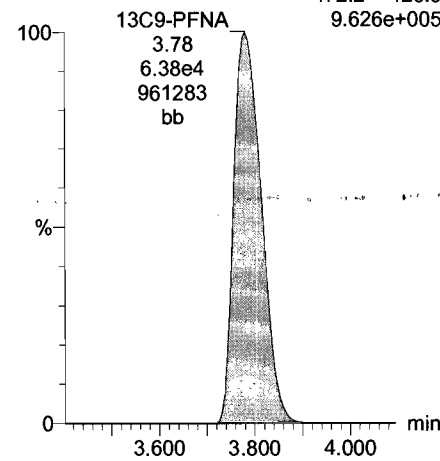
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
9.370e+005



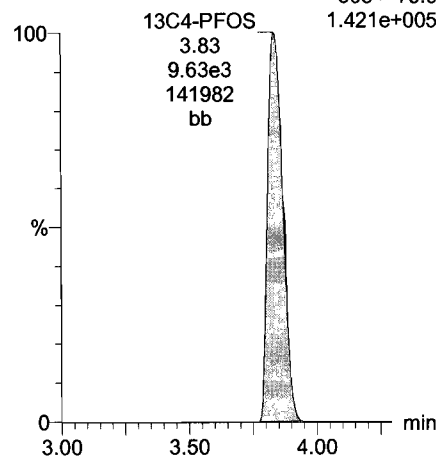
13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
9.626e+005



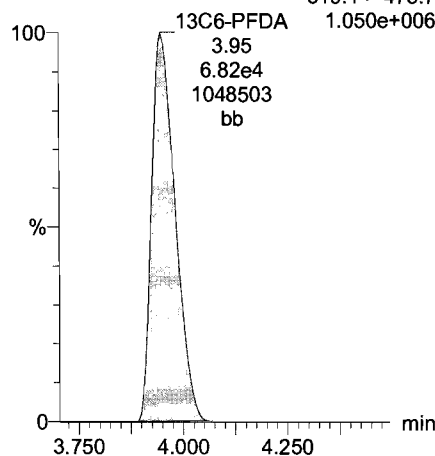
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.421e+005



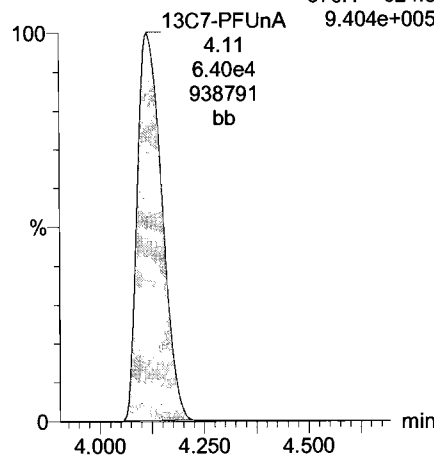
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.050e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
9.404e+005



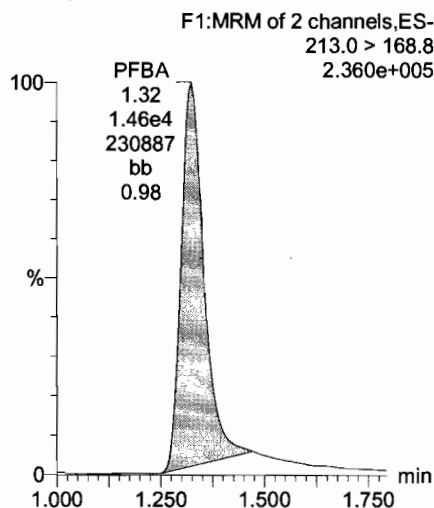
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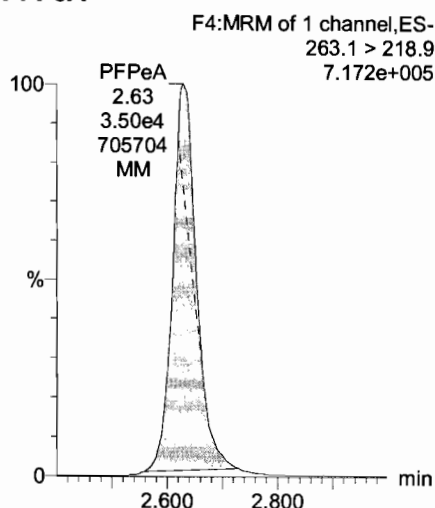
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Name: 170727M1_11, Date: 27-Jul-2017, Time: 12:41:40, ID: ST170727M1-6 PFC CS3 17G2709, Description: PFC CS3 17G2709

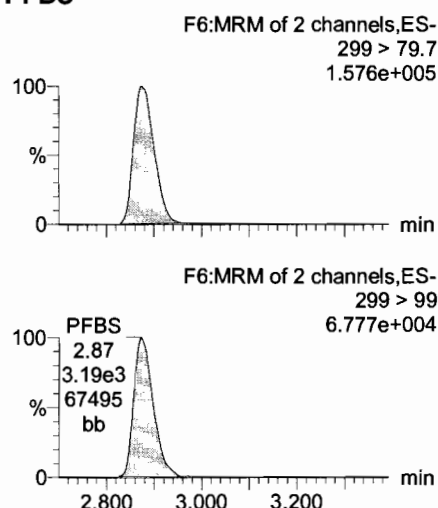
PFBA



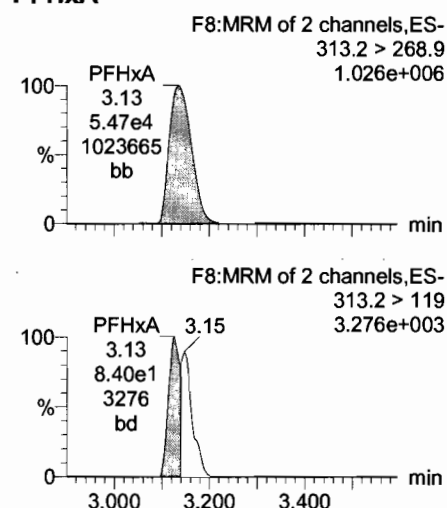
PFPeA



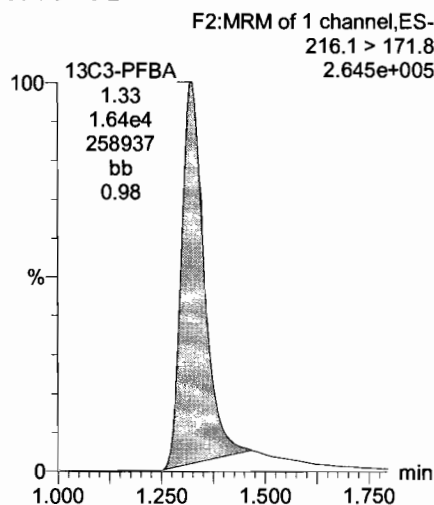
PFBS



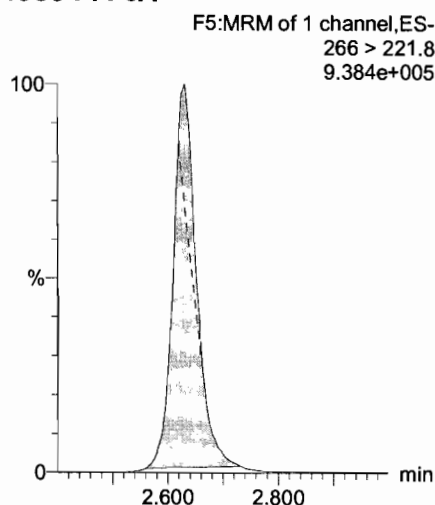
PFHxA



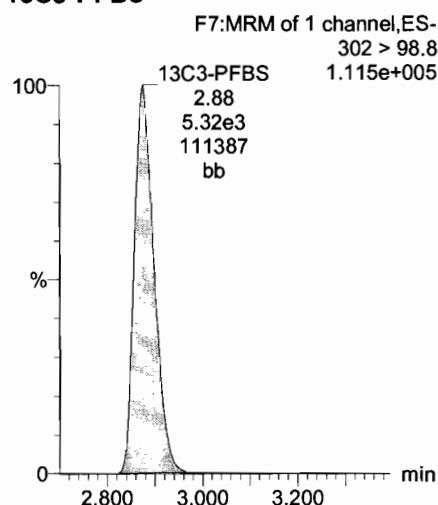
13C3-PFBA



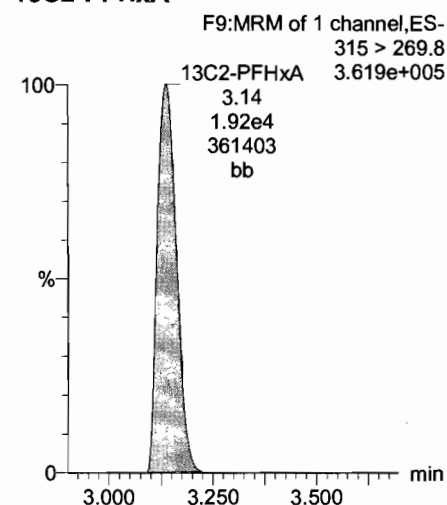
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



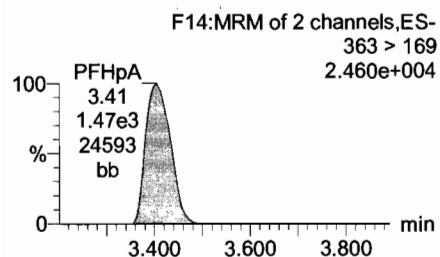
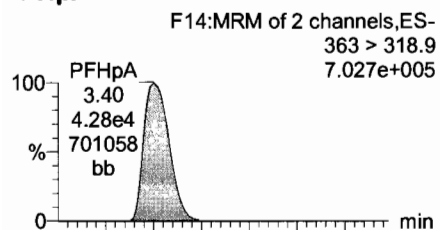
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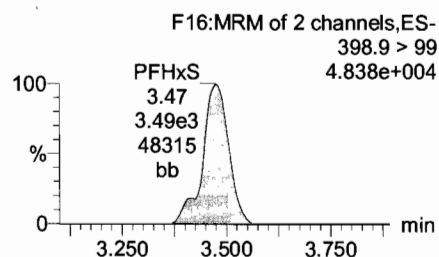
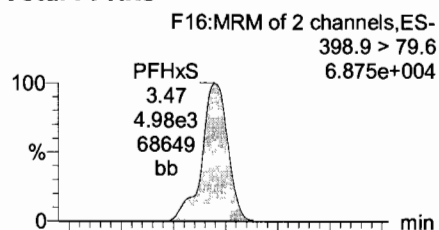
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Name: 170727M1_11, Date: 27-Jul-2017, Time: 12:41:40, ID: ST170727M1-6 PFC CS3 17G2709, Description: PFC CS3 17G2709

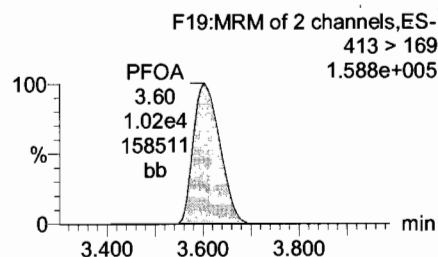
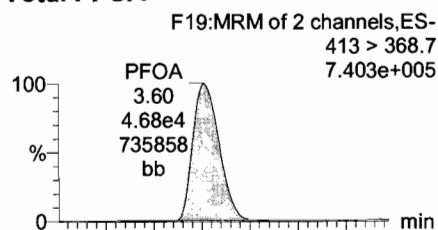
PFHpA



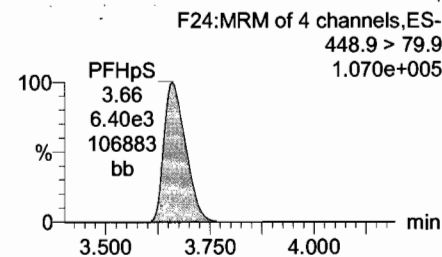
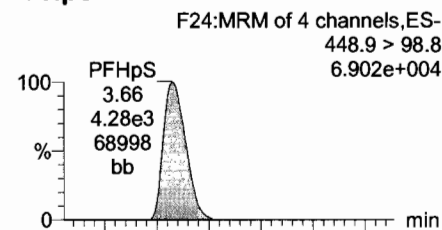
Total PFHxS



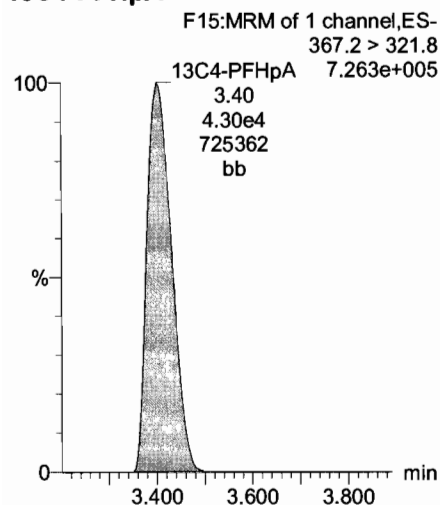
Total PFOA



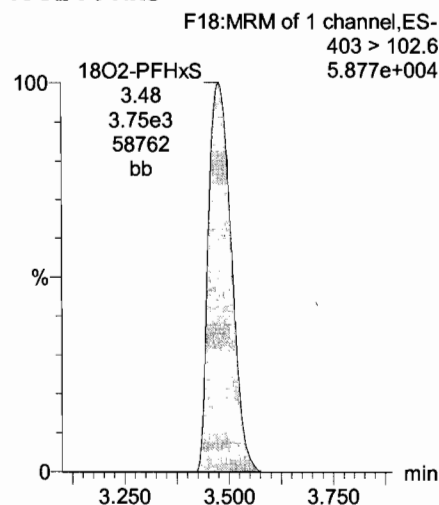
PFHpS



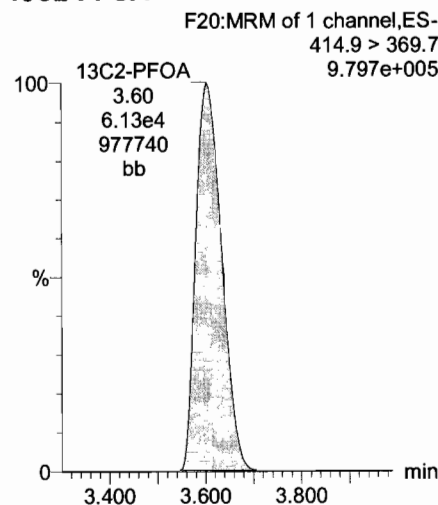
13C4-PFHpA



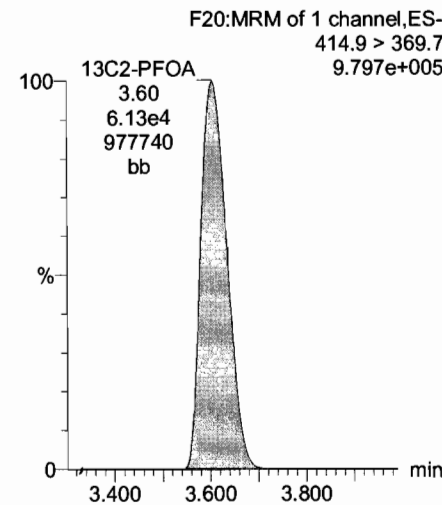
18O2-PFHxS



13C2-PFOA



13C2-PFOA



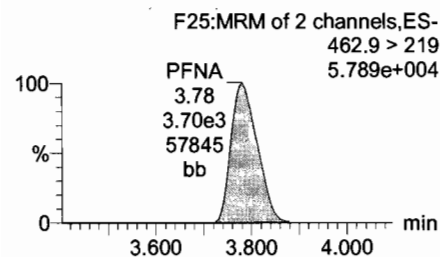
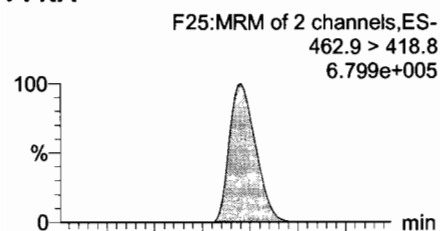
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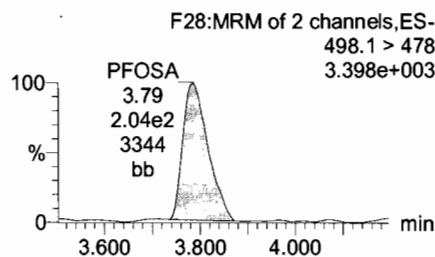
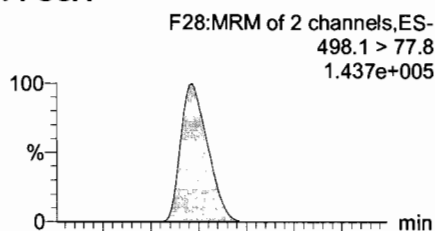
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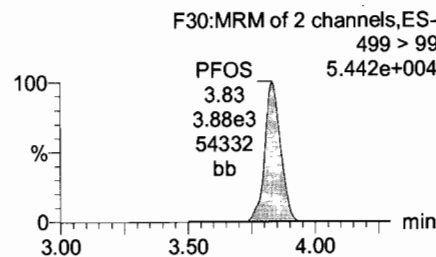
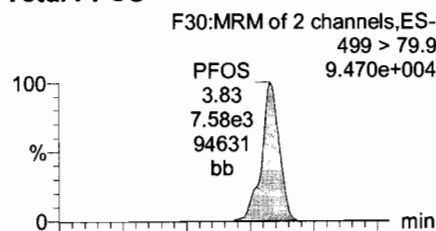
PFNA



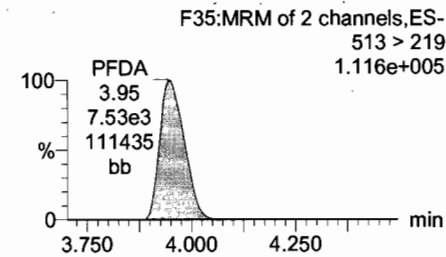
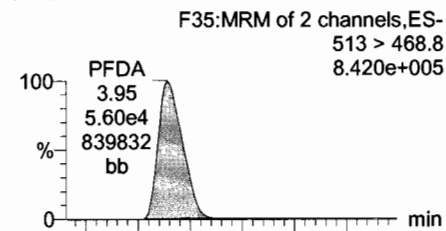
PFOSA



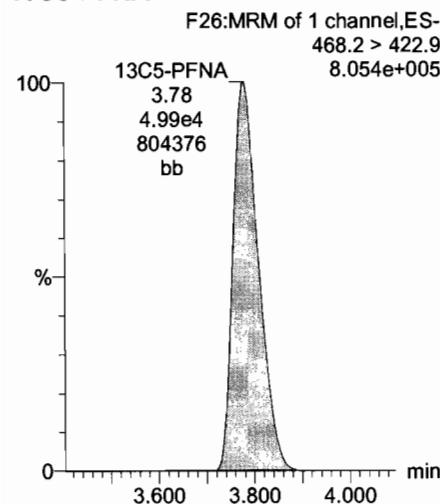
Total PFOS



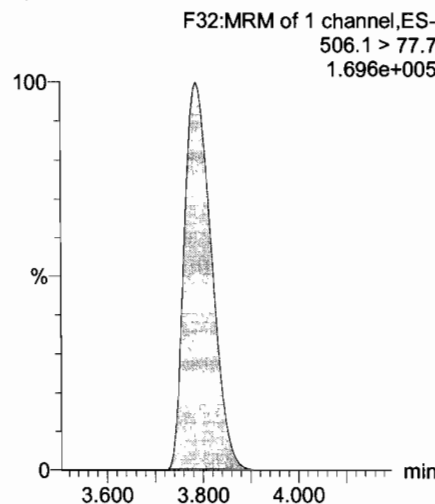
PFDA



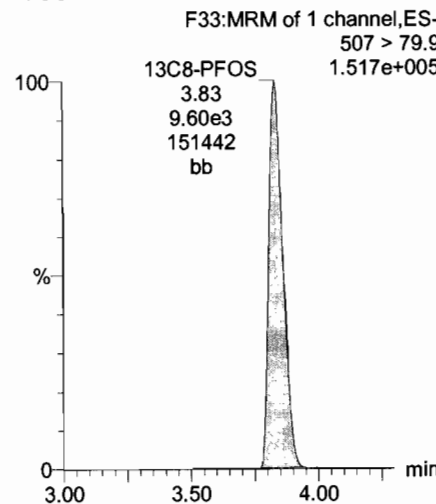
13C5-PFNA



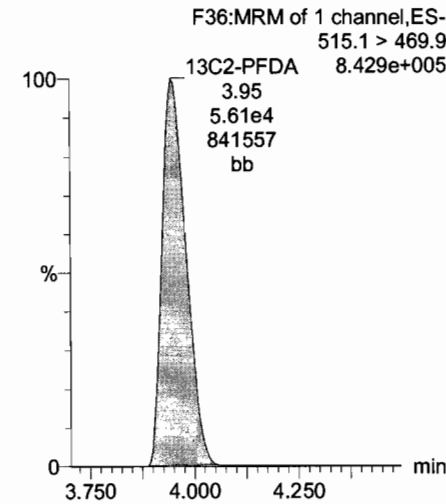
13C8-PFOSA



13C8-PFOS



13C2-PFDA



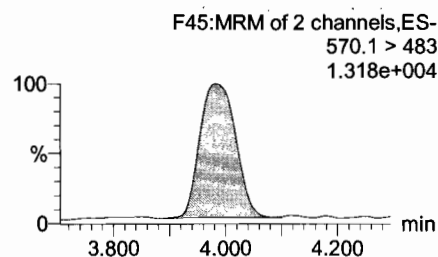
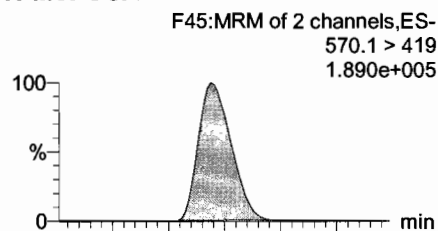
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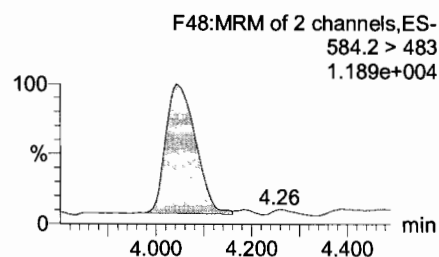
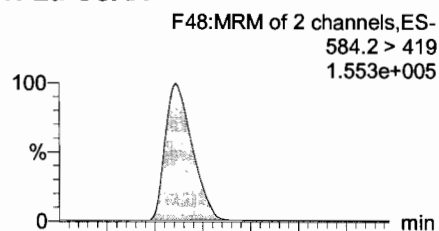
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Name: 170727M1_11, Date: 27-Jul-2017, Time: 12:41:40, ID: ST170727M1-6 PFC CS3 17G2709, Description: PFC CS3 17G2709

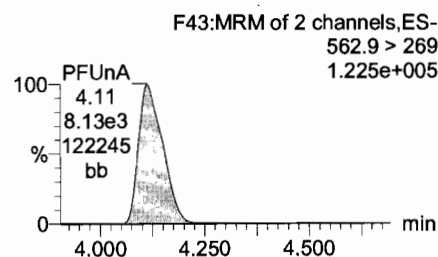
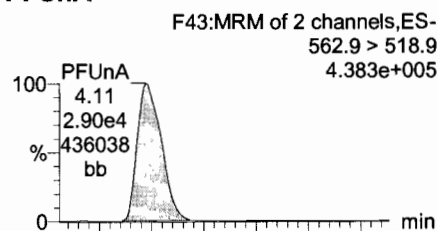
N-MeFOSAA



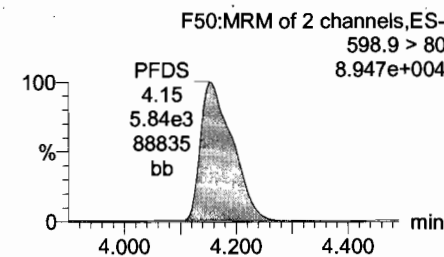
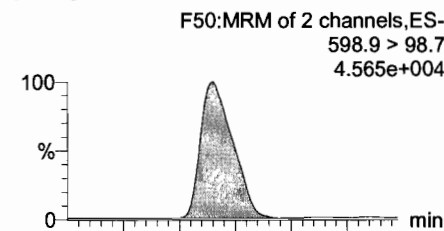
N-EtFOSAA



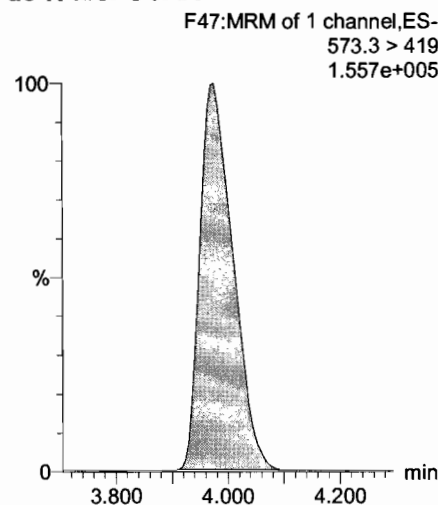
PFUnA



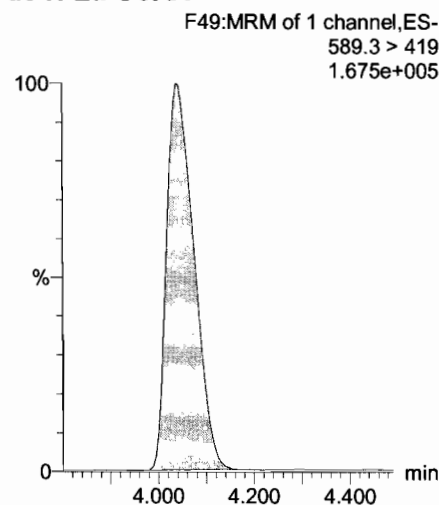
PFDS



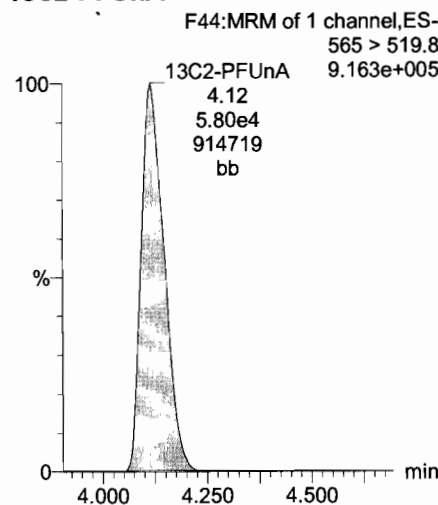
d3-N-MeFOSAA



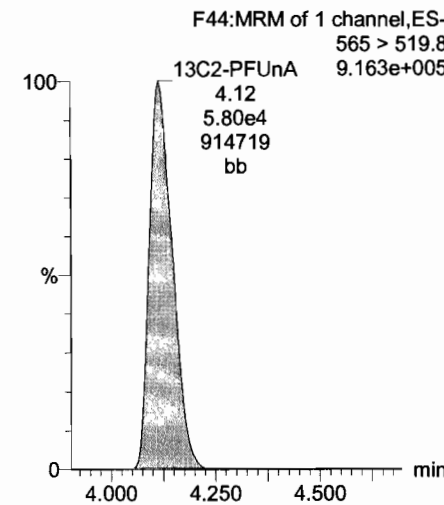
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



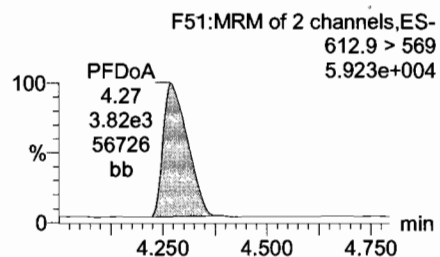
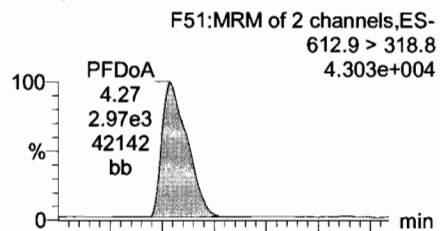
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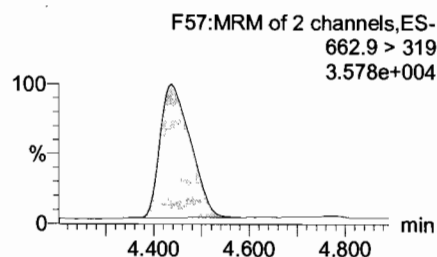
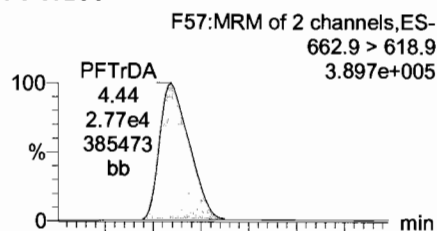
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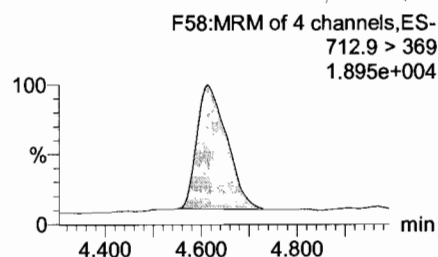
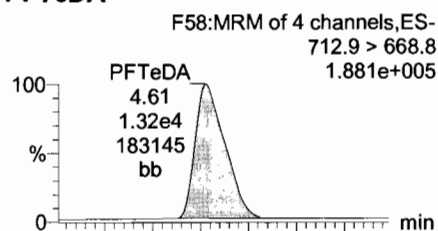
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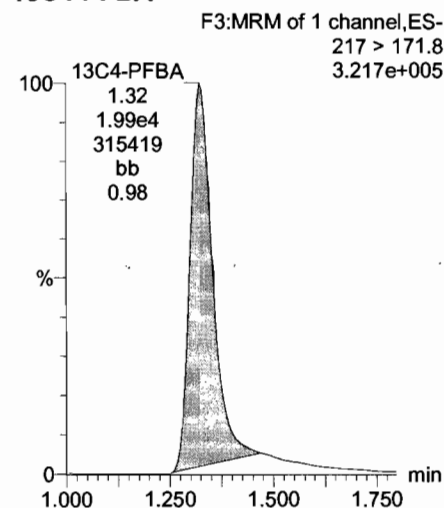
PFTTrDA



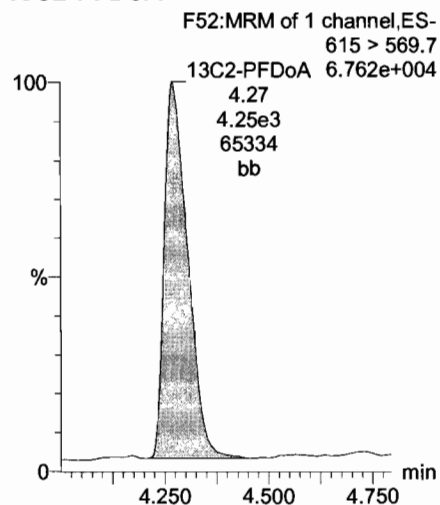
PFTeDA



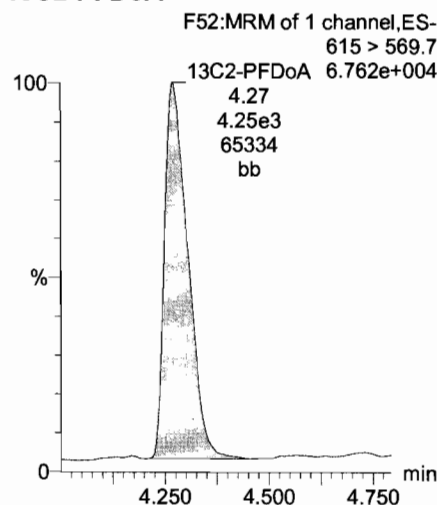
13C4-PFBA



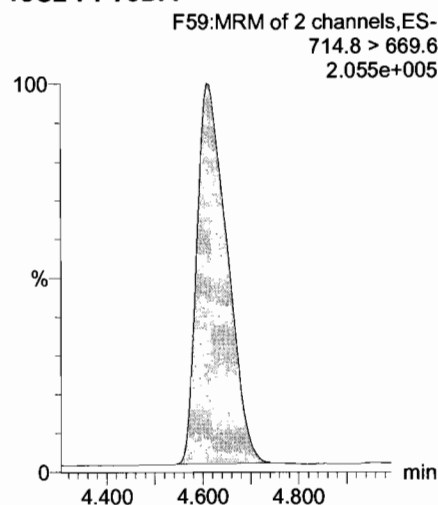
13C2-PFDDoA



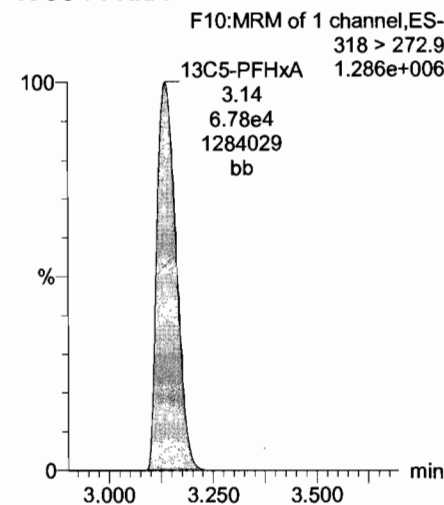
13C2-PFDDoA



13C2-PFTeDA



13C5-PFHxA



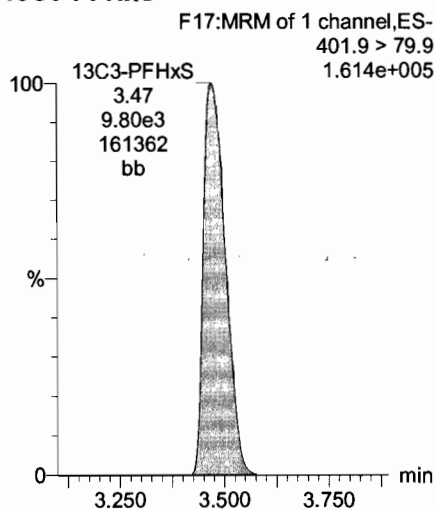
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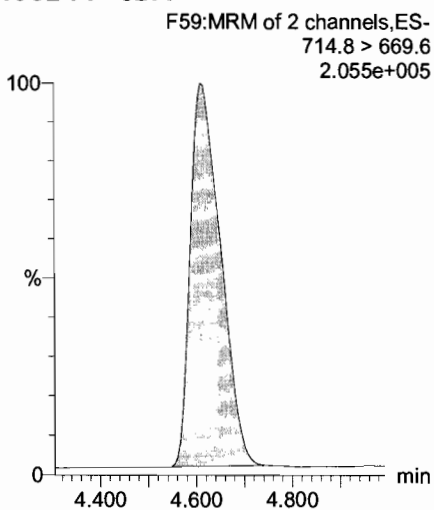
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Name: 170727M1_11, Date: 27-Jul-2017, Time: 12:41:40, ID: ST170727M1-6 PFC CS3 17G2709, Description: PFC CS3 17G2709

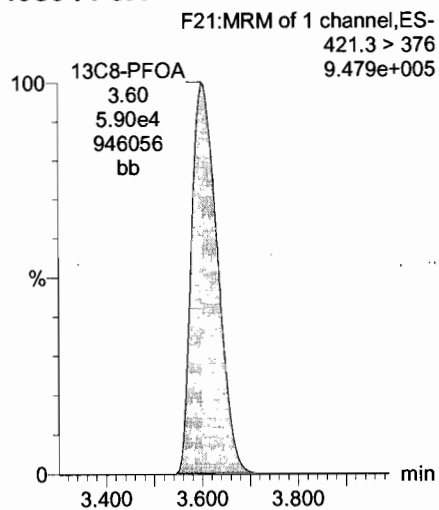
13C3-PFHxS



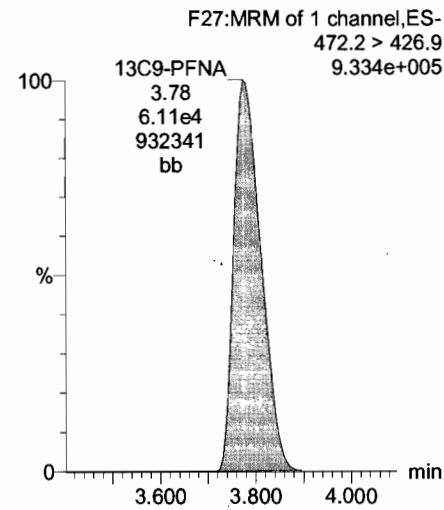
13C2-PFTeDA



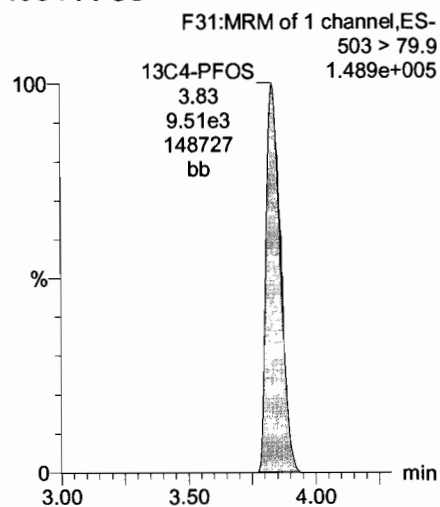
13C8-PFOA



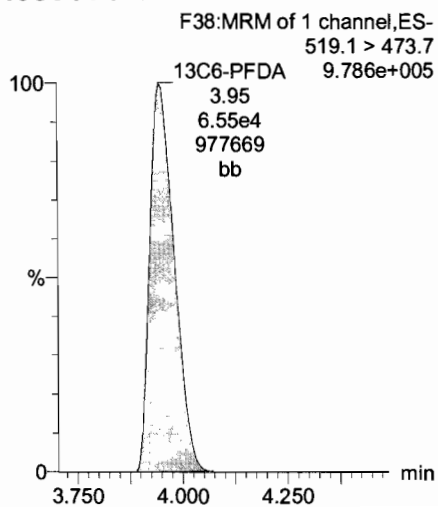
13C9-PFNA



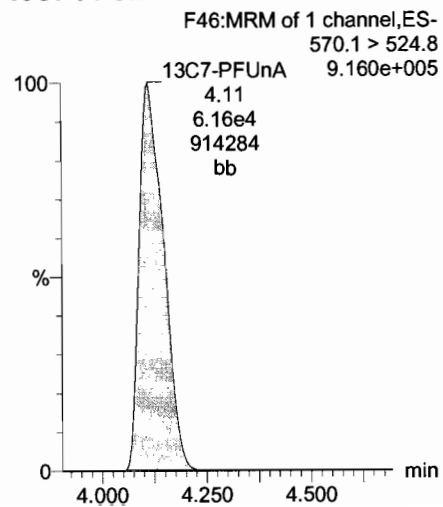
13C4-PFOS



13C6-PFDA



13C7-PFUnA



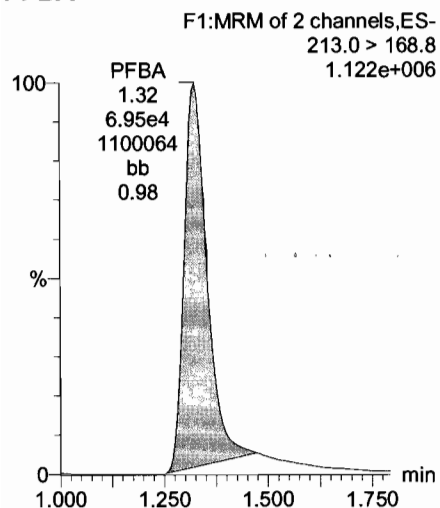
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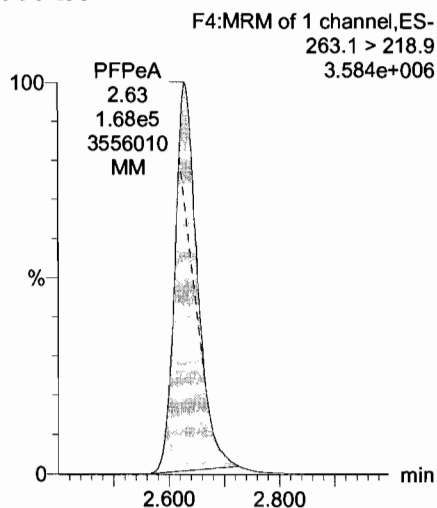
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Name: 170727M1_12, Date: 27-Jul-2017, Time: 12:52:18, ID: ST170727M1-7 PFC CS4 17G2729, Description: PFC CS4 17G2729

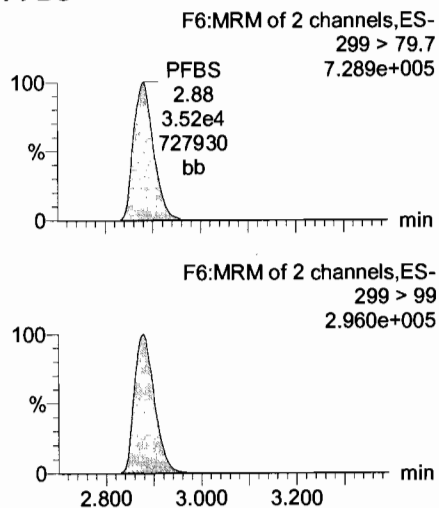
PFBA



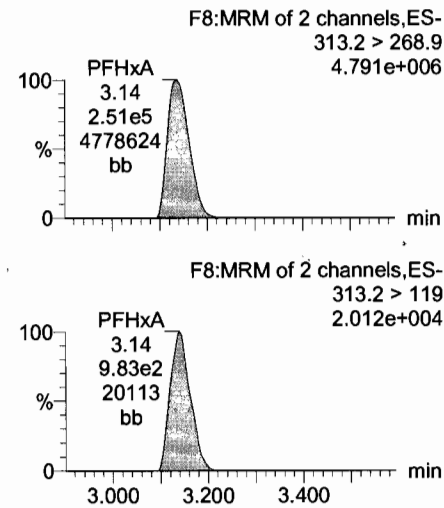
PFPeA



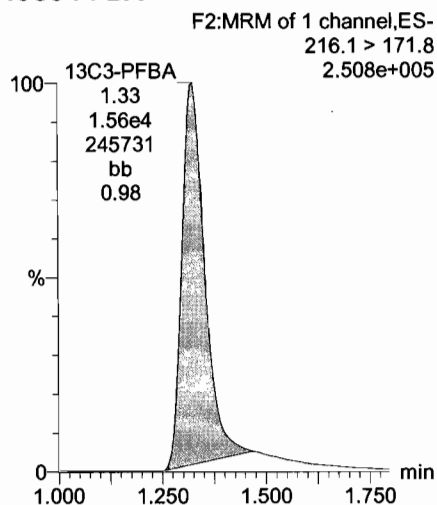
PFBS



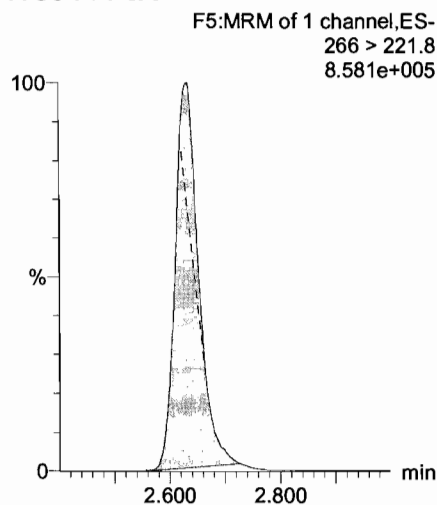
PFHxA



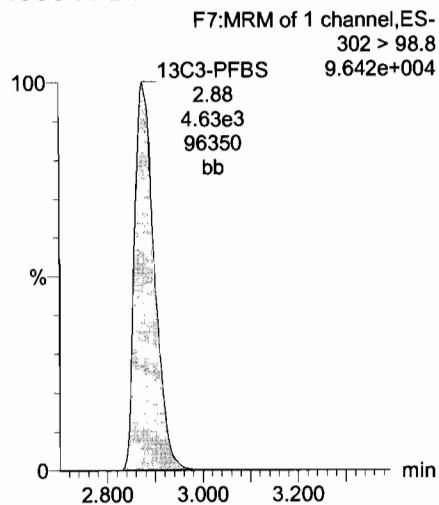
13C3-PFBA



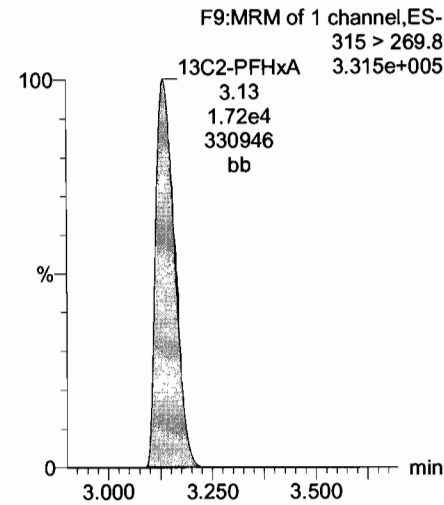
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



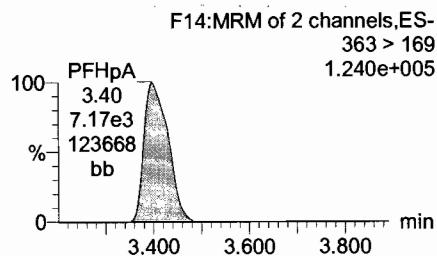
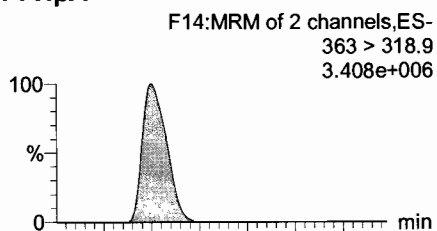
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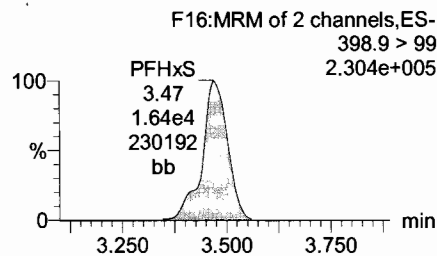
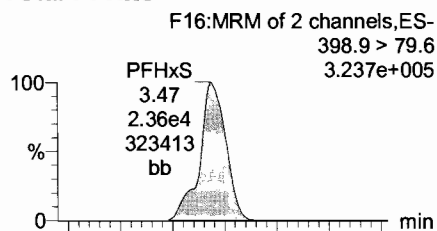
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Name: 170727M1_12, Date: 27-Jul-2017, Time: 12:52:18, ID: ST170727M1-7 PFC CS4 17G2729, Description: PFC CS4 17G2729

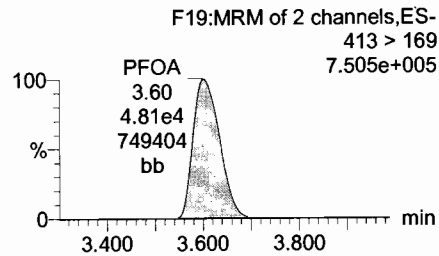
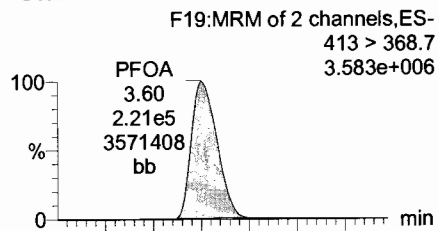
PFHpA



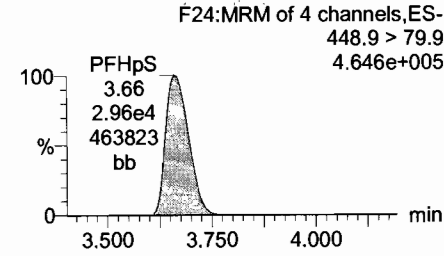
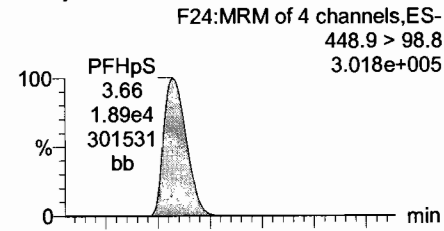
Total PFHxS



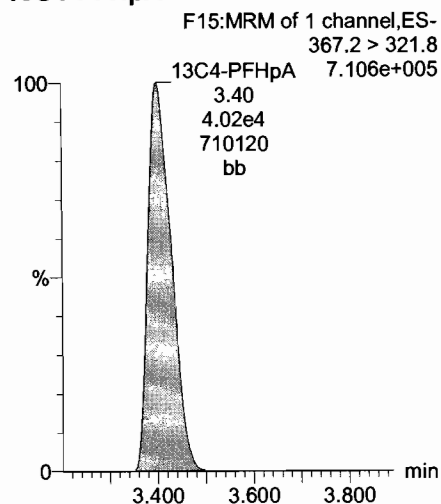
Total PFOA



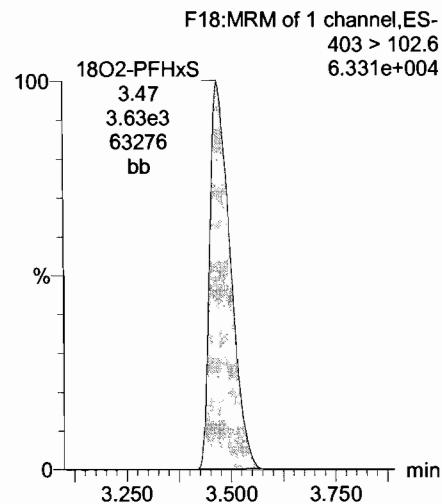
PFHpS



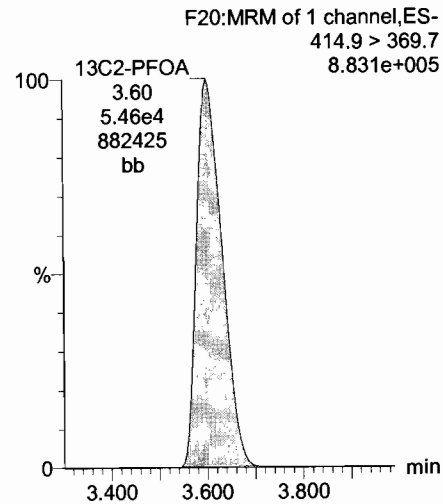
13C4-PFHpA



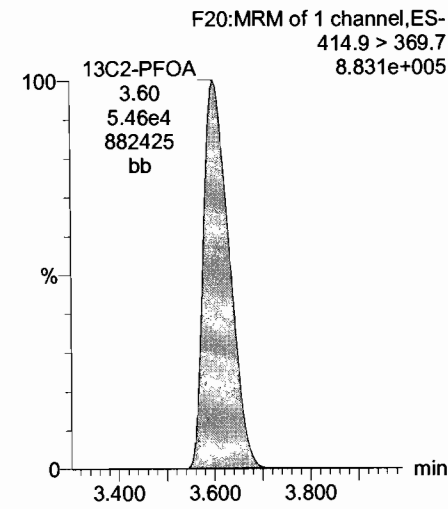
18O2-PFHxS



13C2-PFOA



13C2-PFOA



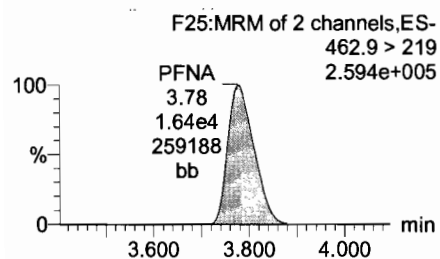
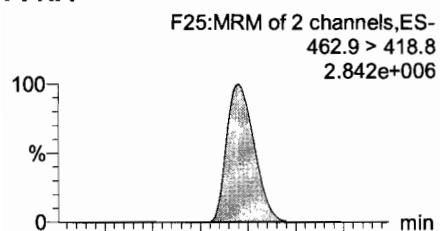
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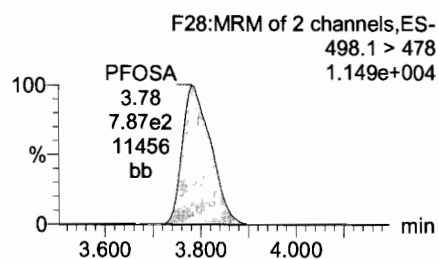
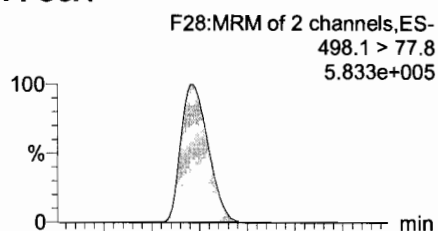
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Name: 170727M1_12, Date: 27-Jul-2017, Time: 12:52:18, ID: ST170727M1-7 PFC CS4 17G2729, Description: PFC CS4 17G2729

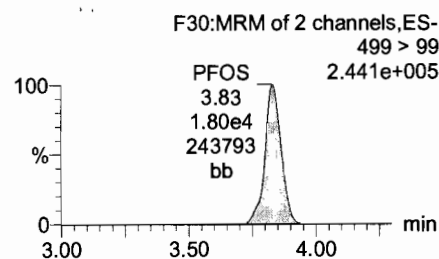
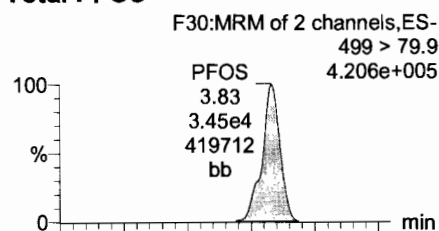
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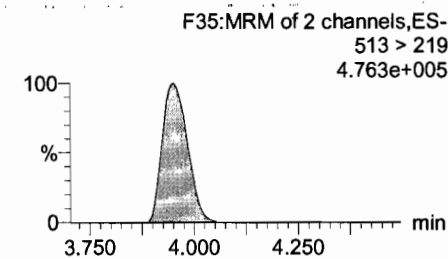
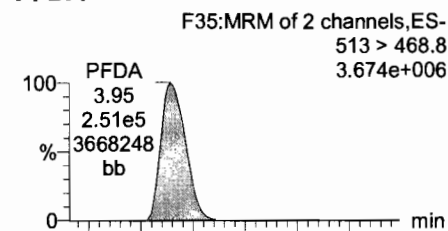
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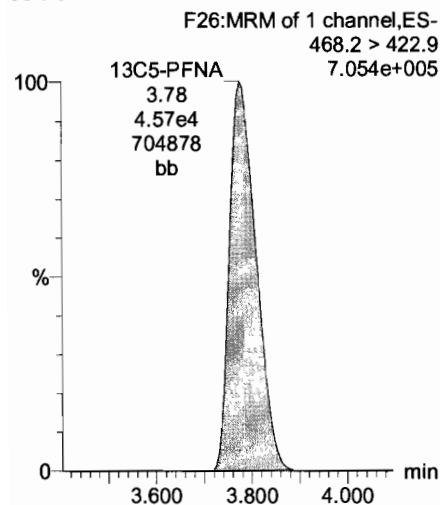
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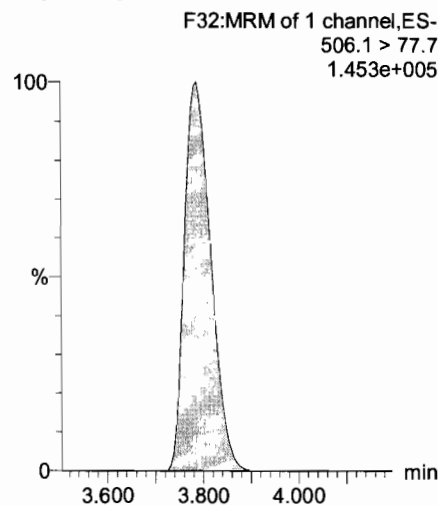
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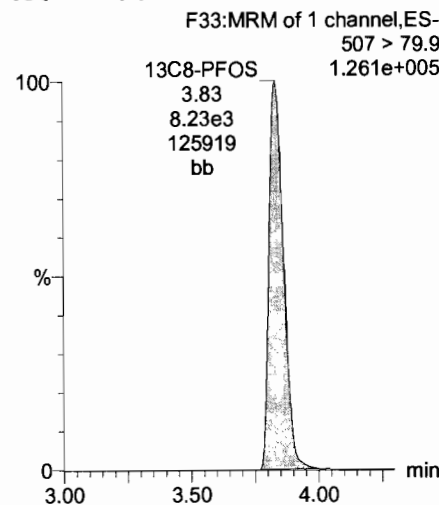
13C5-PFNA



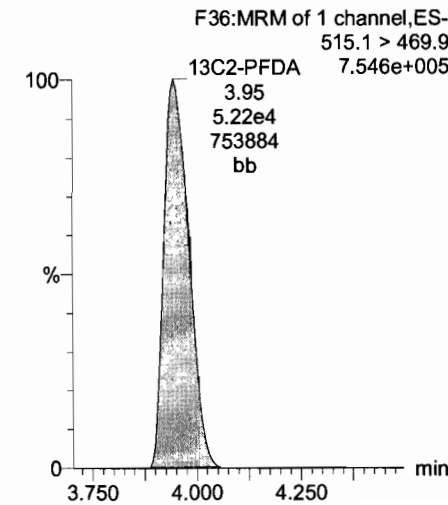
13C8-PFOSA



13C8-PFOS



13C2-PFDA



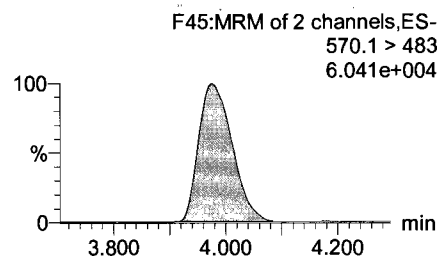
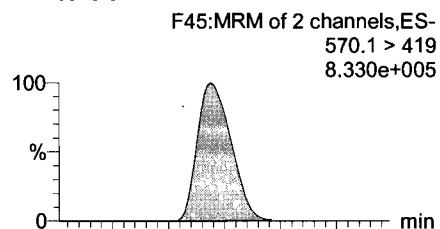
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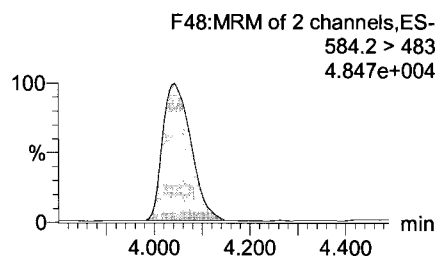
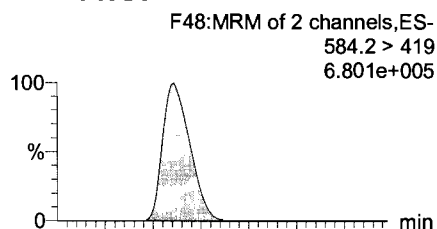
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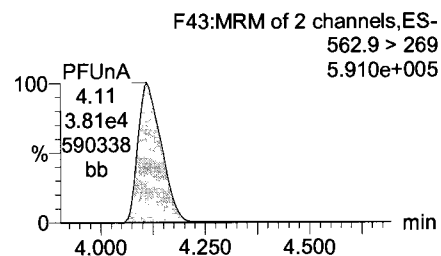
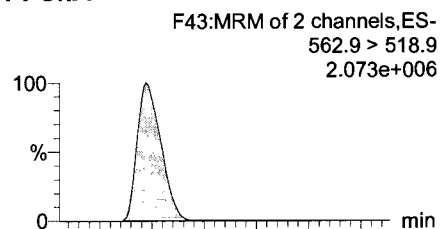
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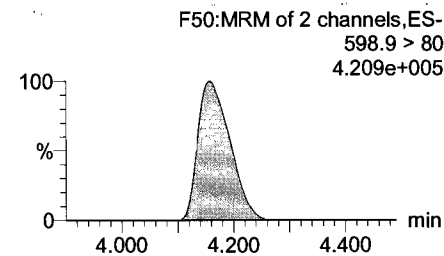
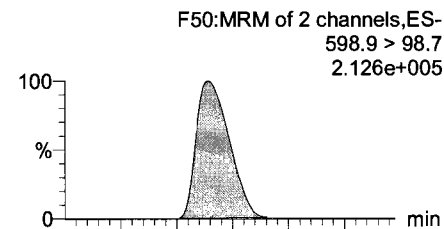
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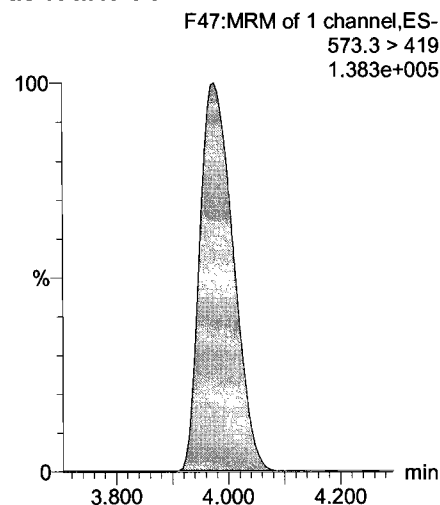
PFUnA



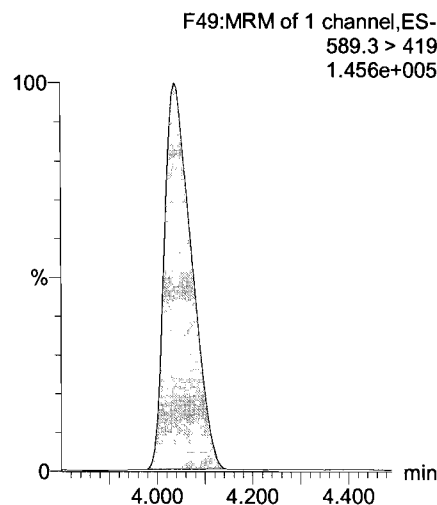
PFDS



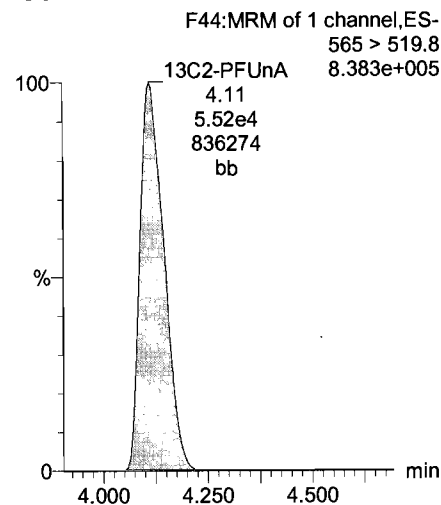
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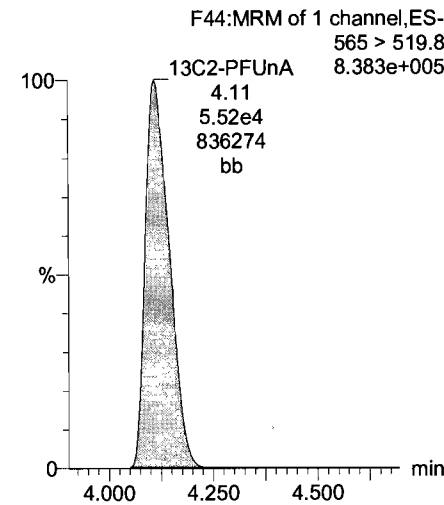
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13C2-PFUnA



13C2-PFUnA



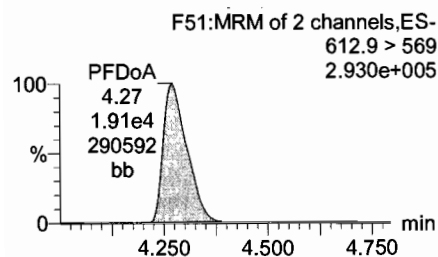
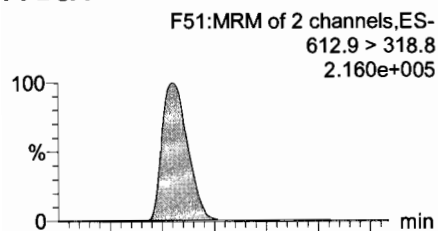
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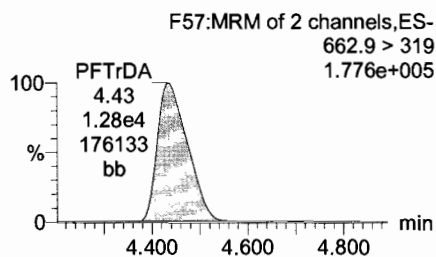
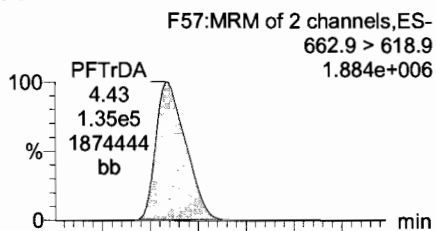
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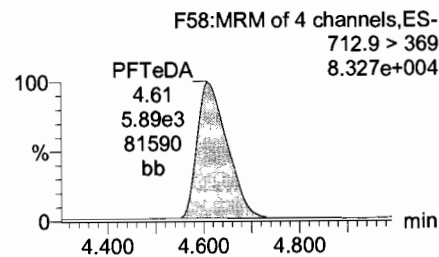
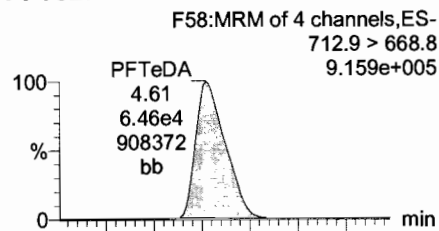
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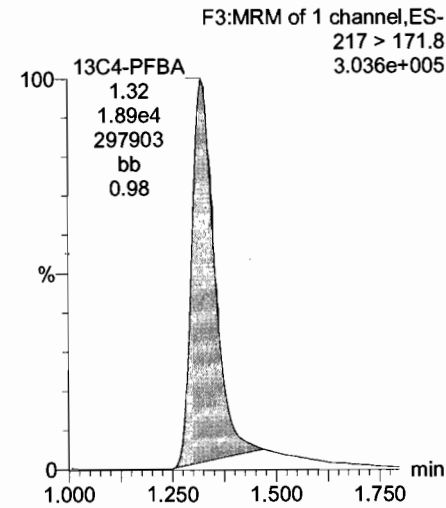
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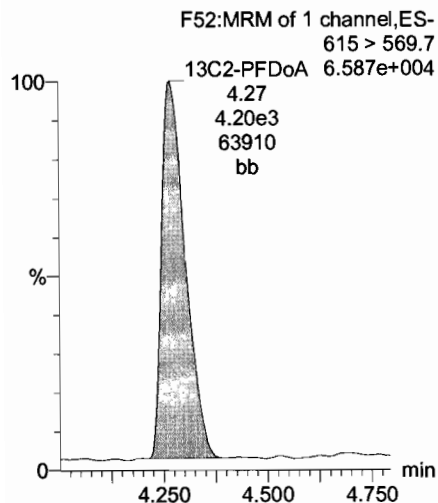
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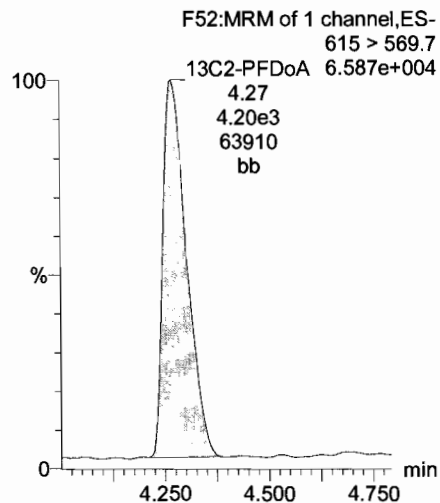
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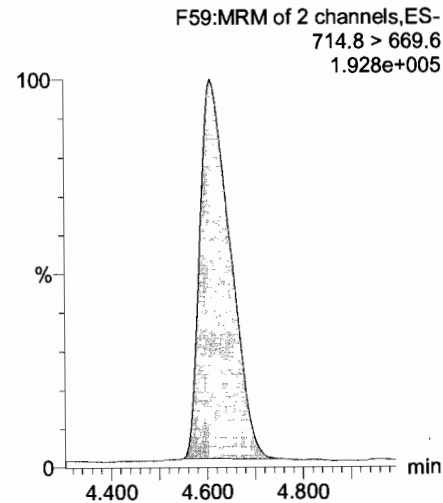
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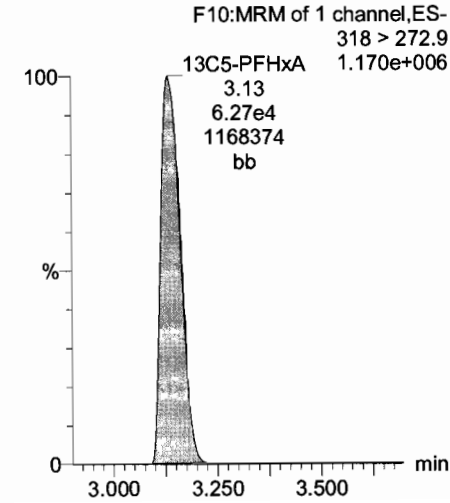
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13C2-PFTeDA



13C5-PFHxA



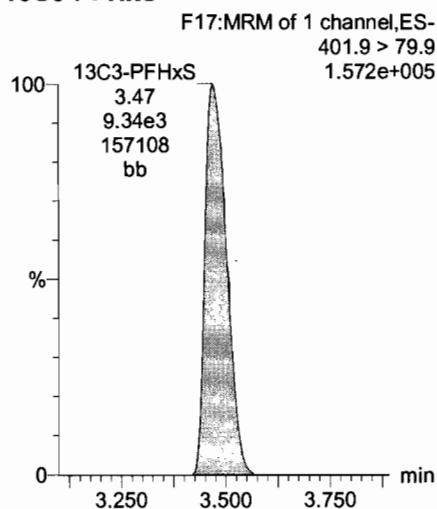
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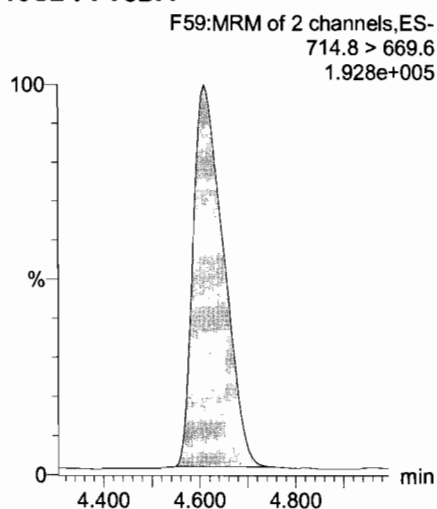
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Name: 170727M1_12, Date: 27-Jul-2017, Time: 12:52:18, ID: ST170727M1-7 PFC CS4 17G2729, Description: PFC CS4 17G2729

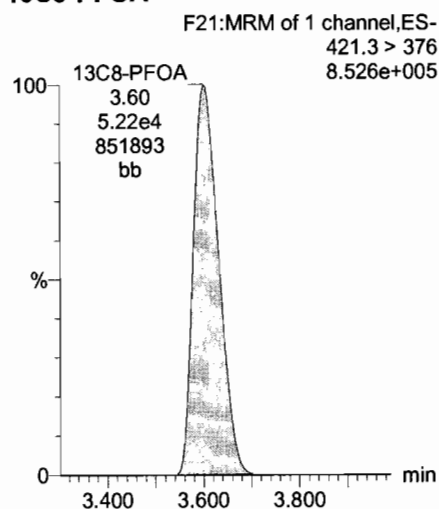
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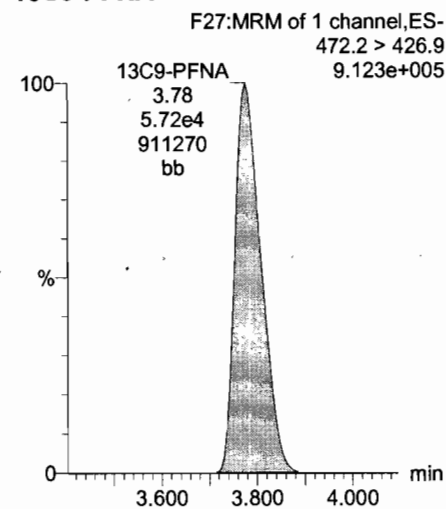
13C2-PFTeDA



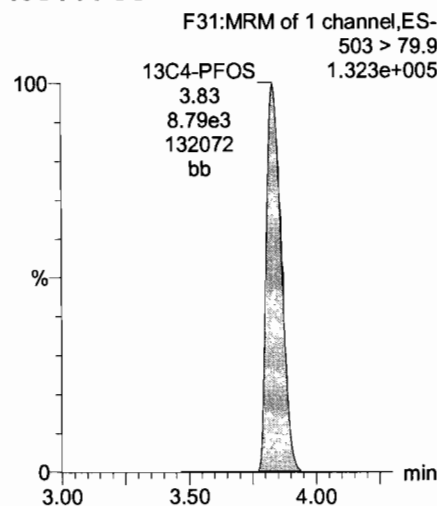
13C8-PFOA



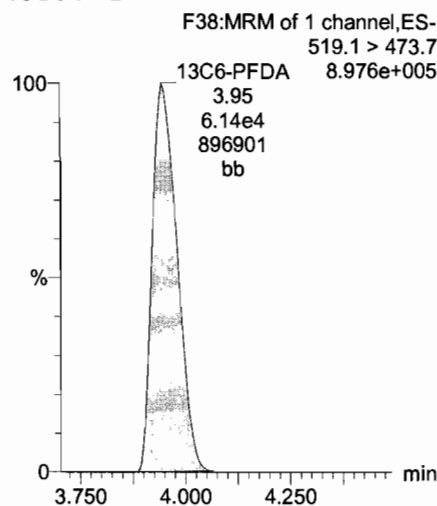
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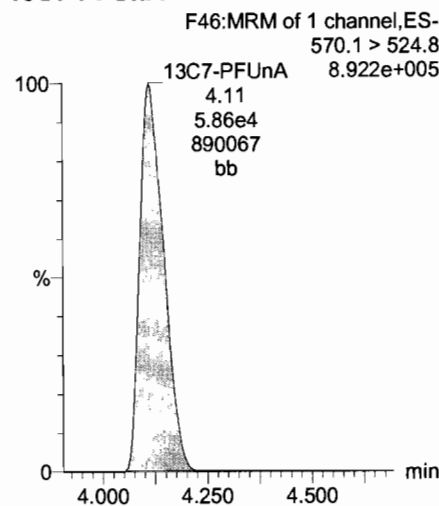
13C4-PFOS



13C6-PFDA



13C7-PFUnA



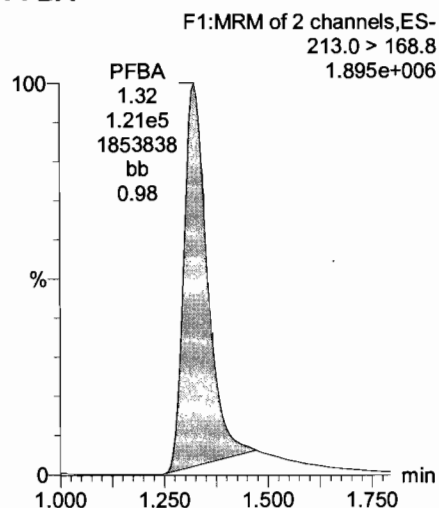
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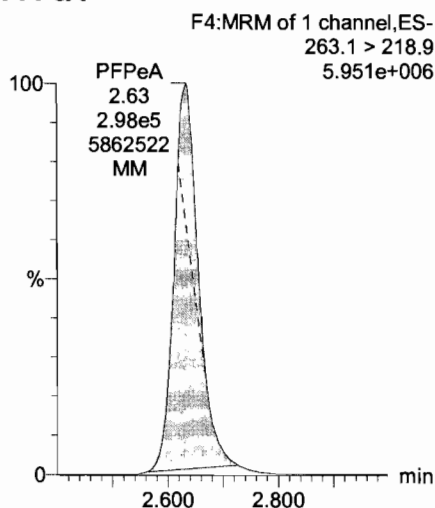
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Name: 170727M1_13, Date: 27-Jul-2017, Time: 13:02:56, ID: ST170727M1-8 PFC CS5 17G2710, Description: PFC CS5 17G2710

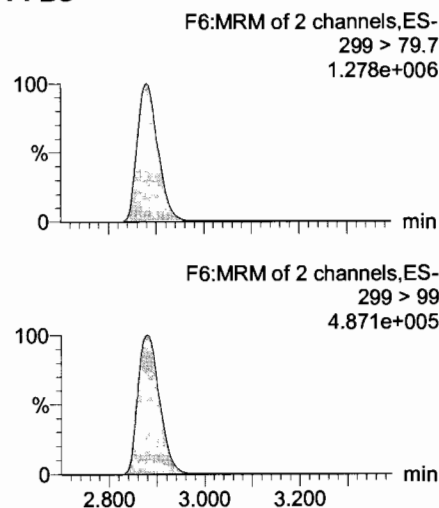
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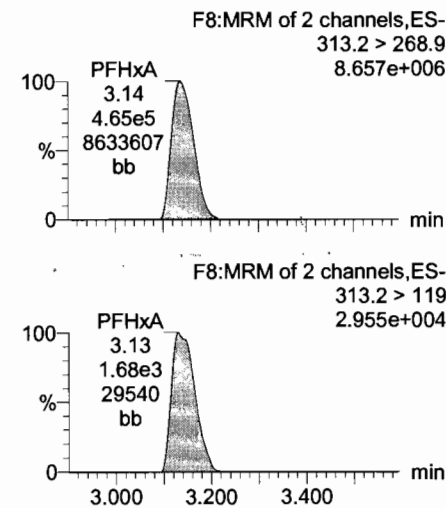
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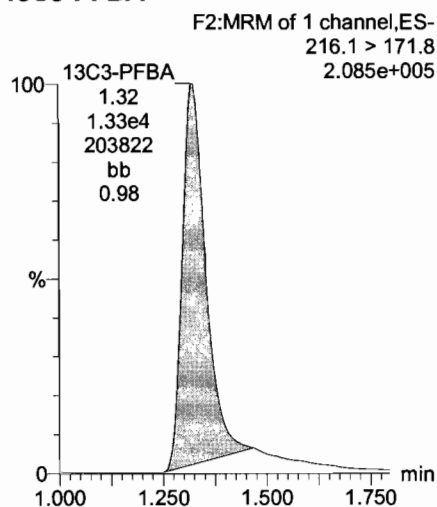
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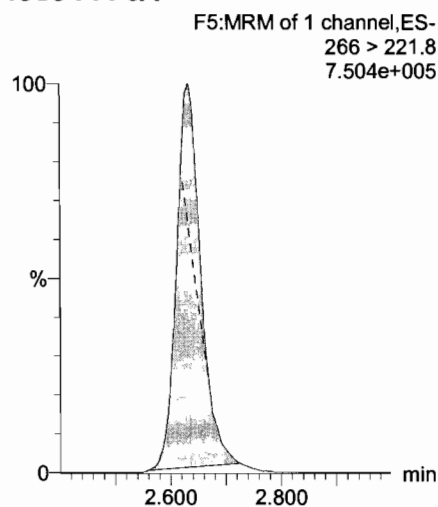
PFHxA



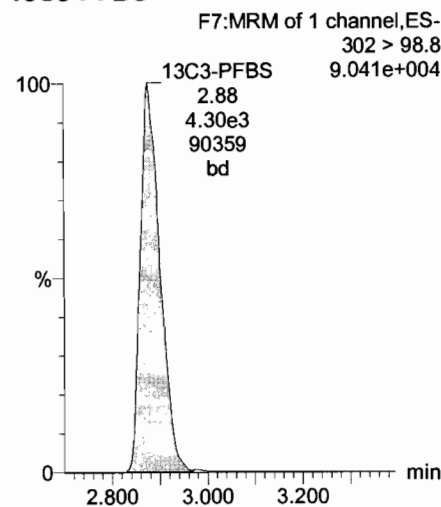
13C3-PFBA



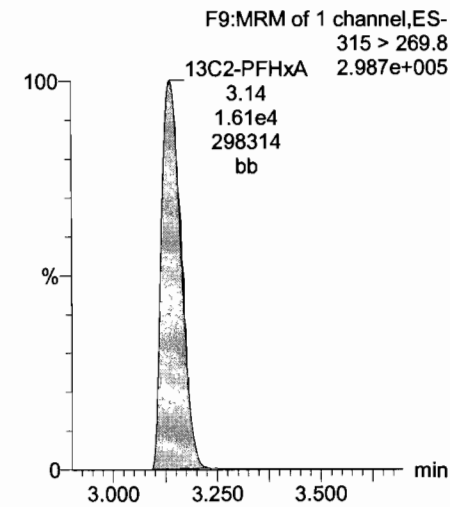
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



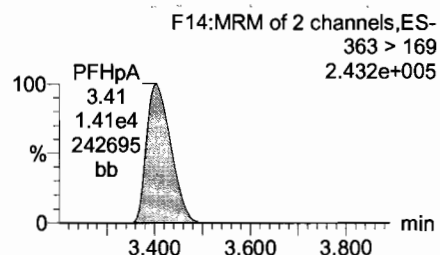
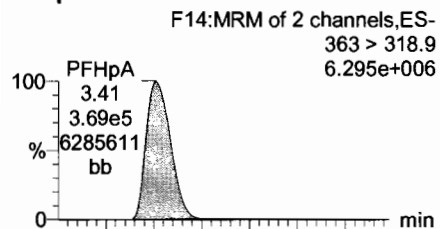
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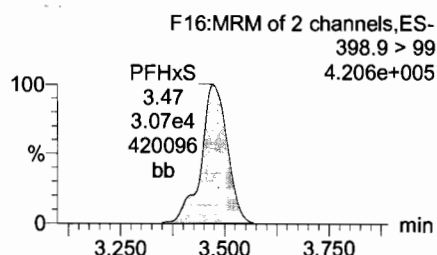
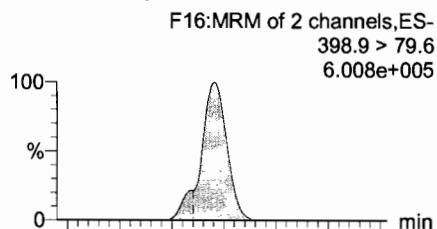
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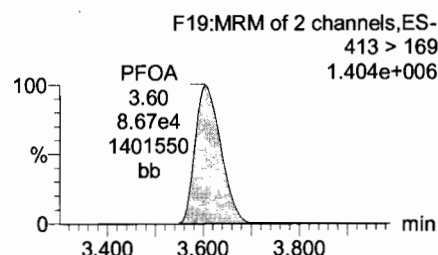
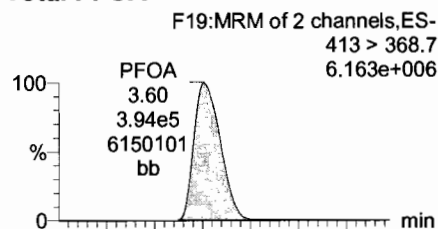
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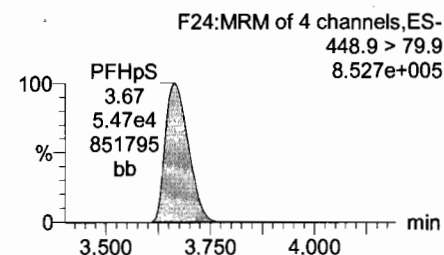
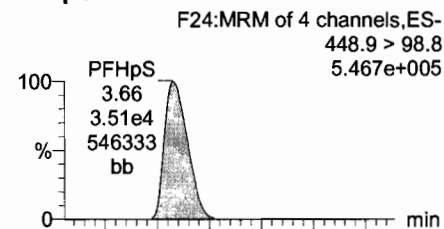
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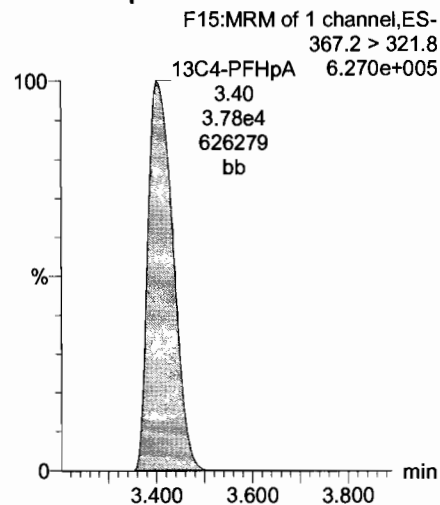
Total PFOA



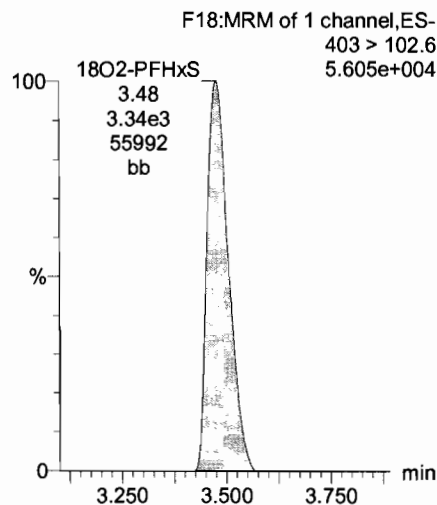
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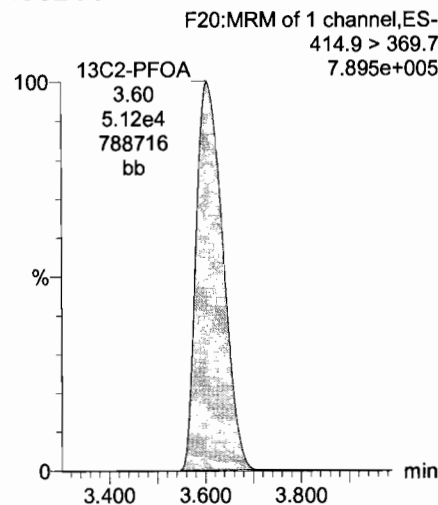
13C4-PFHpA



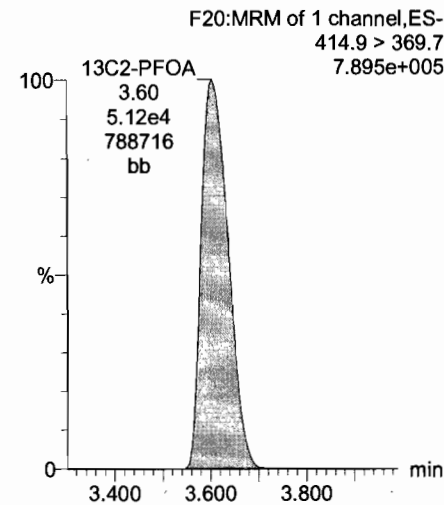
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13C2-PFOA



13C2-PFOA



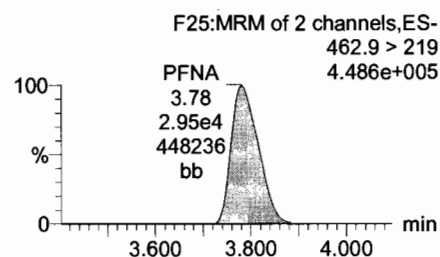
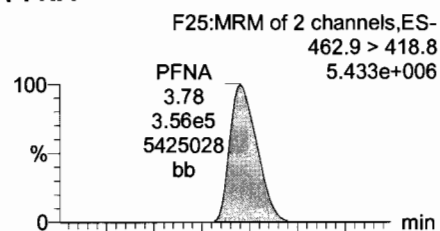
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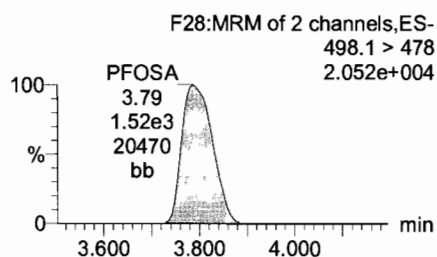
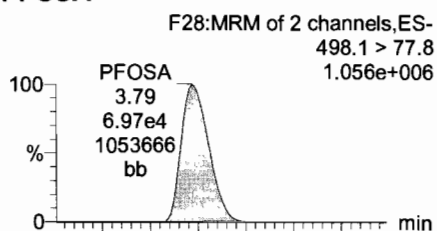
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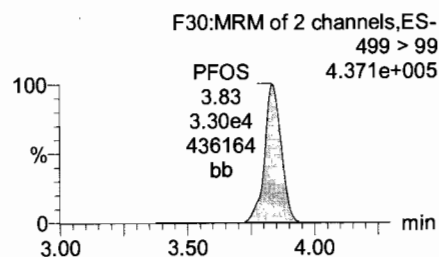
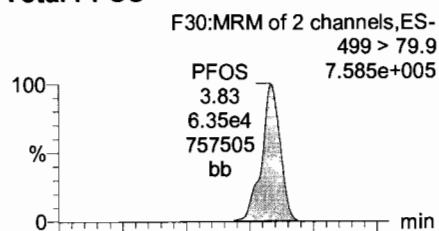
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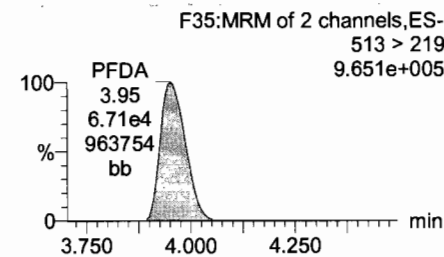
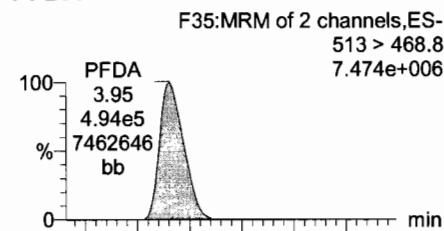
PFOSA



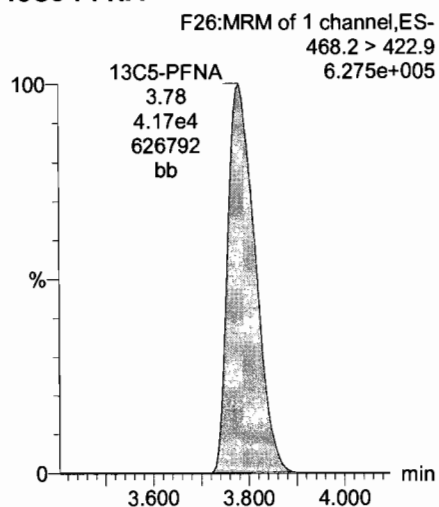
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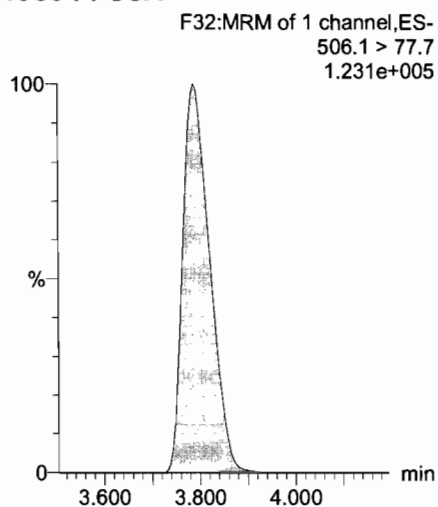
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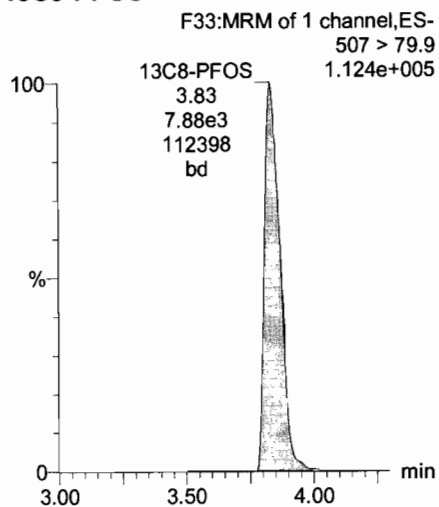
13C5-PFNA



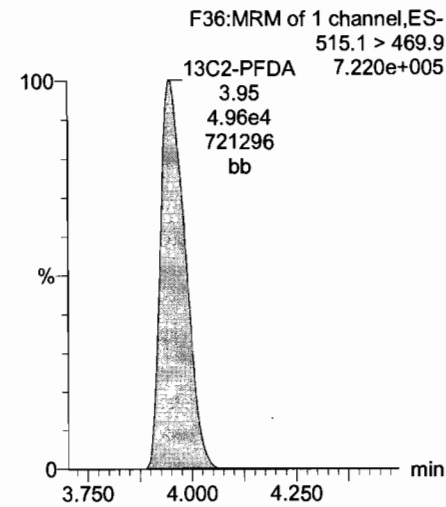
13C8-PFOSA



13C8-PFOS



13C2-PFDA



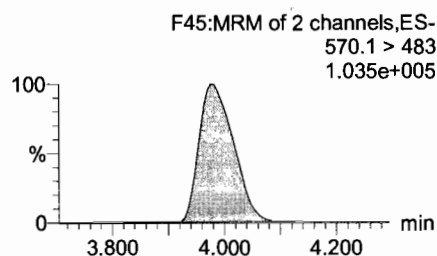
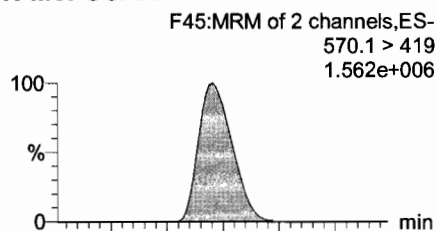
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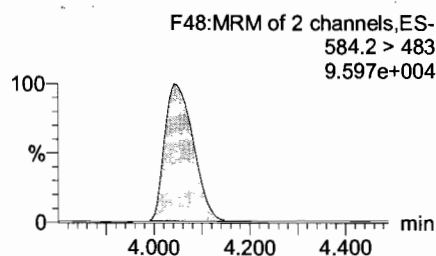
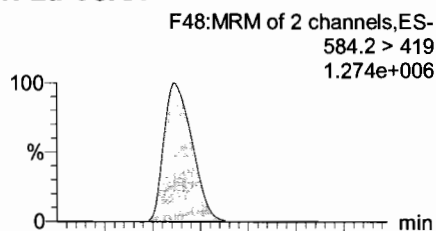
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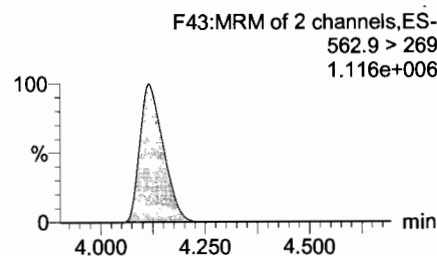
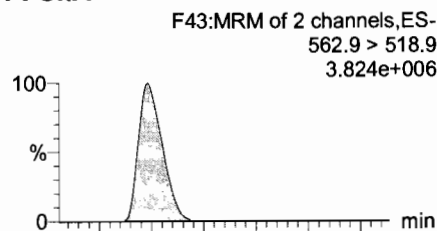
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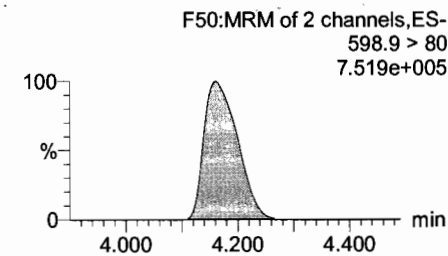
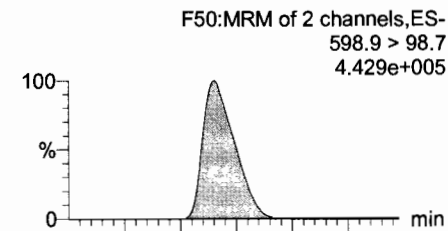
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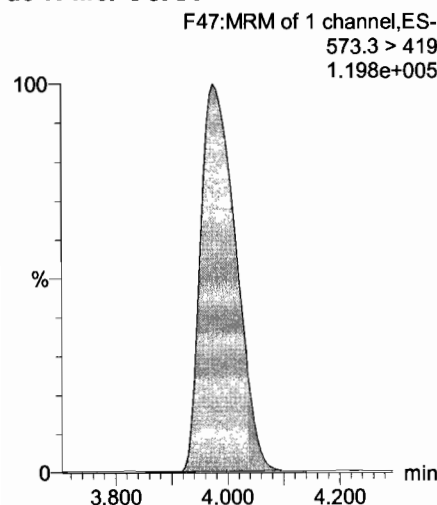
PFUnA



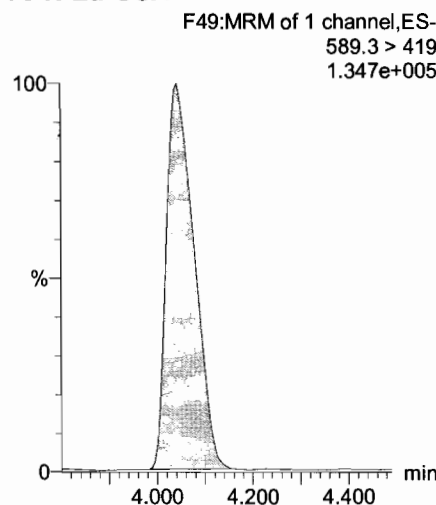
PFDS



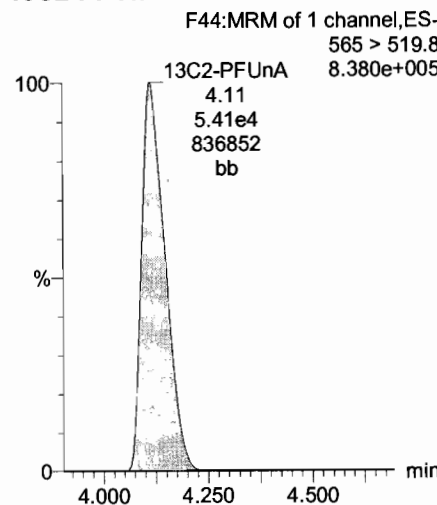
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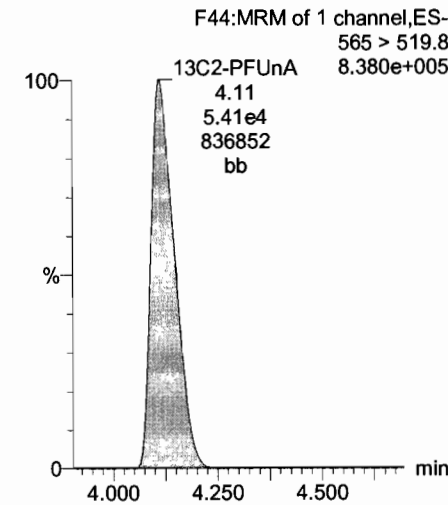
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



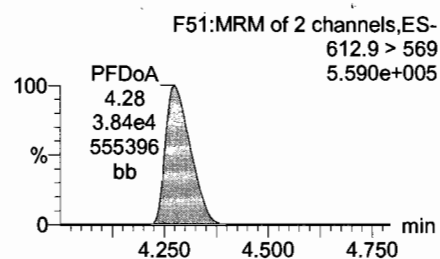
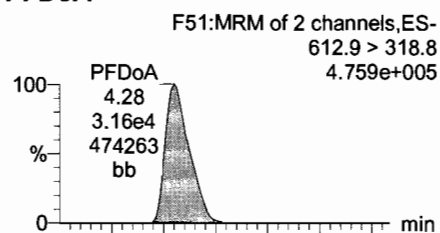
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Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

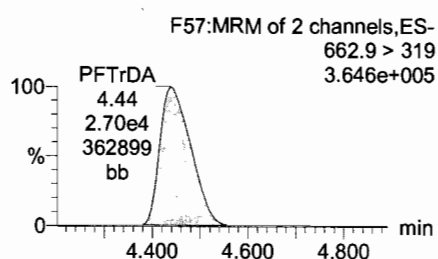
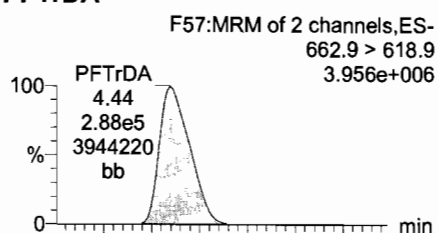
Printed: Friday, July 28, 2017 09:03:52 Pacific Daylight Time

Name: 170727M1_13, Date: 27-Jul-2017, Time: 13:02:56, ID: ST170727M1-8 PFC CS5 17G2710, Description: PFC CS5 17G2710

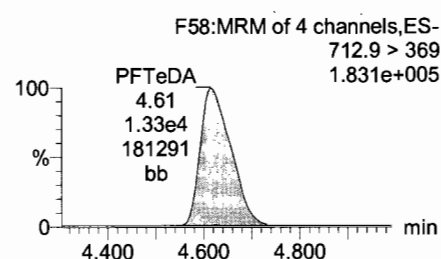
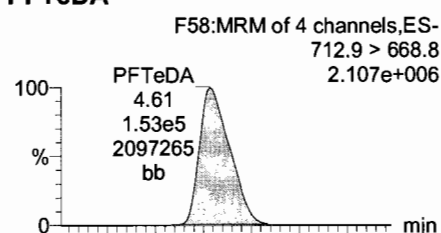
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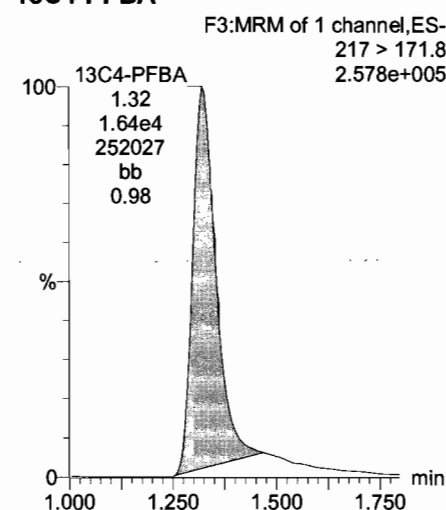
PFTTrDA



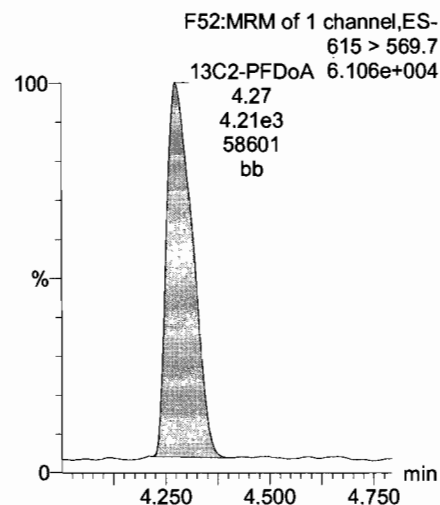
PFTeDA



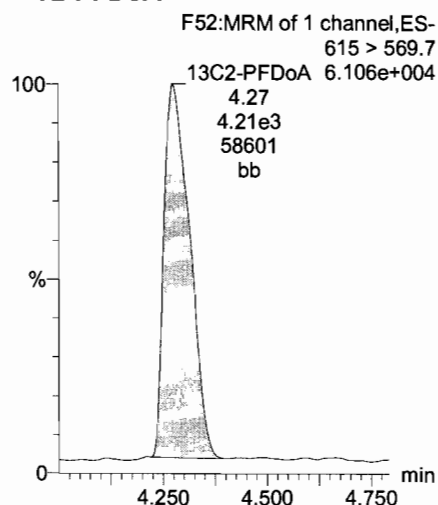
13C4-PFBA



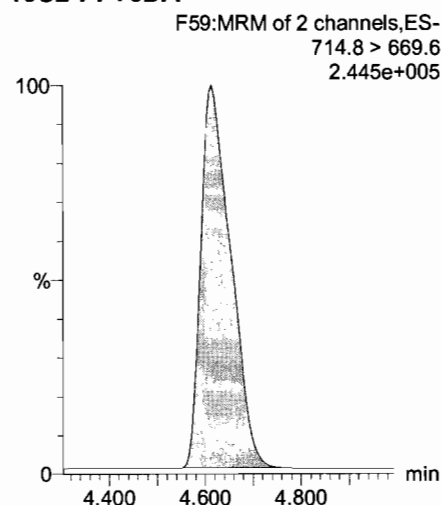
13C2-PFDaA



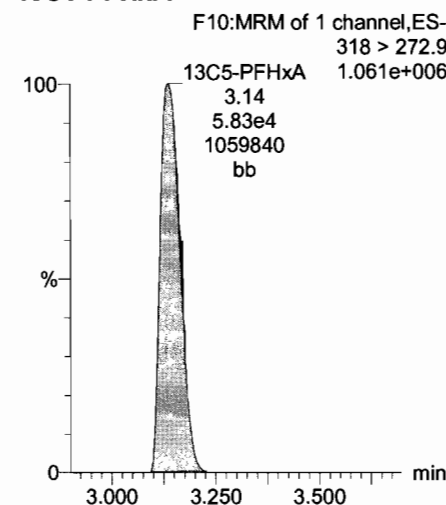
13C2-PFDaA



13C2-PFTeDA



13C5-PFHxA



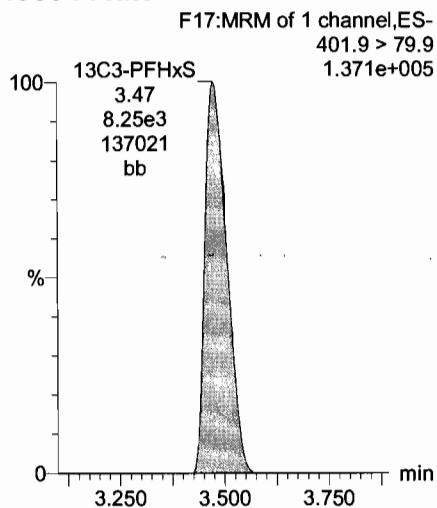
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Last Altered: Friday, July 28, 2017 08:49:51 Pacific Daylight Time

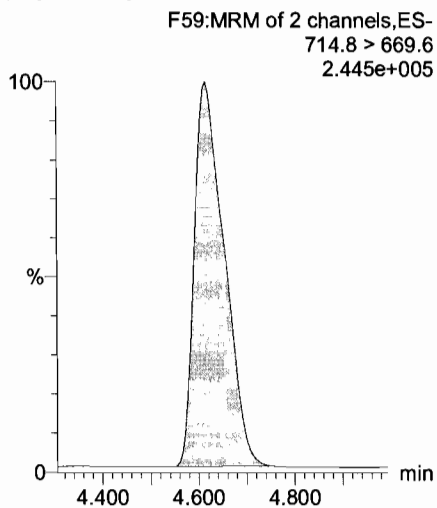
Printed: Friday, July 28, 2017 09:03:52 Pacific Daylight Time

Name: 170727M1_13, Date: 27-Jul-2017, Time: 13:02:56, ID: ST170727M1-8 PFC CS5 17G2710, Description: PFC CS5 17G2710

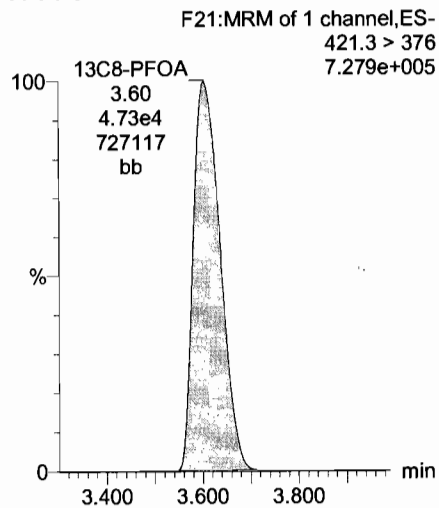
13C3-PFHxS



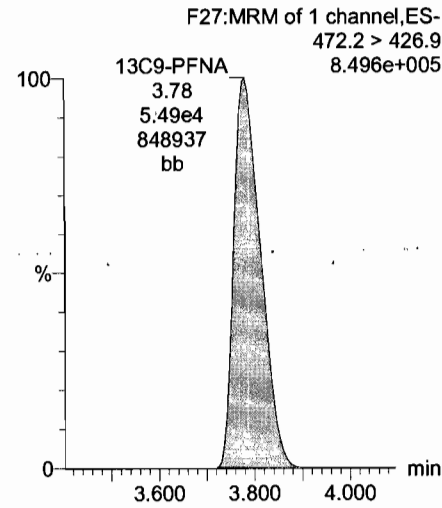
13C2-PFTeDA



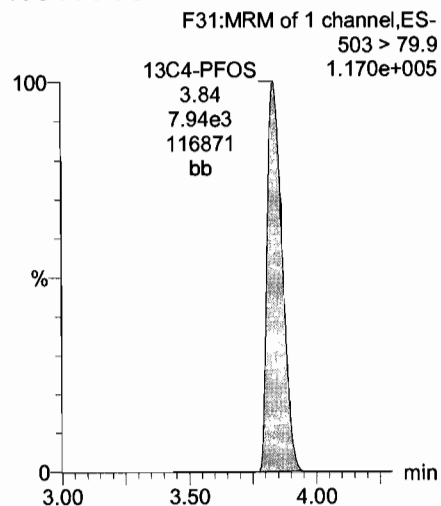
13C8-PFOA



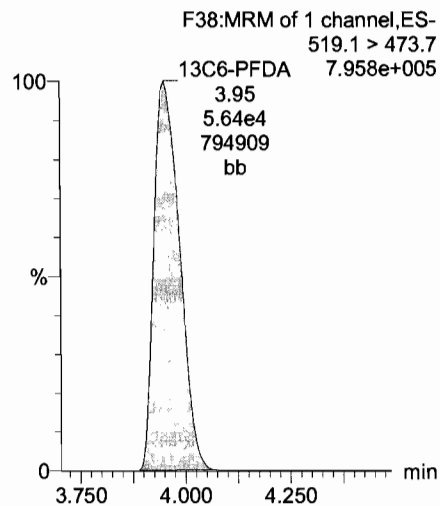
13C9-PFNA



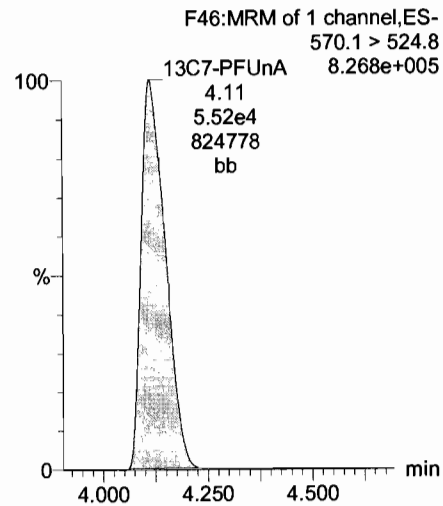
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170727M1\170727M1-15.qld

Last Altered: Friday, July 28, 2017 09:19:12 Pacific Daylight Time

Printed: Friday, July 28, 2017 09:20:31 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-27-17-L14_L17.cdb 28 Jul 2017 08:49:51

Name: 170727M1_15, Date: 27-Jul-2017, Time: 13:24:13, ID: SS170727M1-1 PFC SSS 17G2703, Description: PFC SSS 17G2703

AC 7/28/17

#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	15072.896	16053.381		1.000	1.32	10.19	101.91
2	2 PFPeA	263.1 > 218.9	35956.582	44314.332		1.000	2.63	10.07	100.71
3	3 PFBS	299 > 79.7	6769.659	4858.718		1.000	2.88	9.20	92.03
4	4 PFHxA	313.2 > 268.9	53387.461	17954.670		1.000	3.14	10.13	101.28
5	5 PFHpA	363 > 318.9	44124.266	40823.363		1.000	3.41	10.87	108.72
6	6 PFHxS	398.9 > 79.6	4501.415	3639.156		1.000	3.47	9.26	92.62
7	7 PFOA	413 > 368.7	46273.188	56263.316		1.000	3.61	10.32	103.23
8	8 PFHpS	448.9 > 98.8	3813.298	56263.316		1.000	3.67	9.72	97.17
9	9 PFNA	462.9 > 418.8	44301.281	47976.594		1.000	3.79	10.71	107.05
10	10 PFOSA	498.1 > 77.8	9025.501	10158.539		1.000	3.79	10.18	101.85
11	11 PFOS	499 > 79.9	7022.120	8620.282		1.000	3.83	9.48	94.79
12	12 PFDA	513 > 468.8	53575.969	53813.082		1.000	3.95	9.98	99.80
13	13 N-MeFOSAA	570.1 > 419	12994.350	9958.847		1.000	3.98	10.62	106.24
14	14 N-EtFOSAA	584.2 > 419	9767.218	9591.058		1.000	4.05	10.76	107.58
15	15 PFUnA	562.9 > 518.9	29004.047	53532.066		1.000	4.11	10.44	104.44
16	16 PFDS	598.9 > 98.7	2966.187	53532.066		1.000	4.17	10.22	102.22
17	17 PFDoA	612.9 > 318.8	3426.855	4293.898		1.000	4.29	10.69	106.89
18	18 PFTrDA	662.9 > 618.9	30729.227	4293.898		1.000	4.44	10.51	105.13
19	19 PFTeDA	712.9 > 668.8	13853.436	14573.548		1.000	4.61	9.86	98.55
20	20 13C3-PFBA	216.1 > 171.8	16053.381	19378.115	0.823	1.000	1.33	12.58	100.61
21	21 13C3-PFPeA	266 > 221.8	44314.332	65249.512	0.264	1.000	2.63	12.85	102.82
22	22 13C3-PFBS	302 > 98.8	4858.718	65249.512	0.031	1.000	2.88	12.13	97.06
23	23 13C2-PFHxA	315 > 269.8	17954.670	65249.512	0.275	1.000	3.14	5.00	100.07
24	24 13C4-PFHpA	367.2 > 321.8	40823.363	65249.512	0.260	1.000	3.41	12.03	96.28
25	25 18O2-PFHxS	403 > 102.6	3639.156	9129.876	0.402	1.000	3.47	12.39	99.13
26	26 13C2-PFOA	414.9 > 369.7	56263.316	55490.434	1.042	1.000	3.60	12.16	97.31
27	27 13C5-PFNA	468.2 > 422.9	47976.594	60366.590	0.792	1.000	3.79	12.54	100.34
28	28 13C8-PFOSA	506.1 > 77.7	10158.539	59968.848	0.175	1.000	3.79	12.12	96.98
29	29 13C8-PFOS	507 > 79.9	8620.282	9061.870	0.951	1.000	3.84	12.51	100.07
30	30 13C2-PFDA	515.1 > 469.9	53813.082	64909.809	0.869	1.000	3.95	11.92	95.40
31	31 d3-N-MeFOSAA	573.3 > 419	9958.847	59968.848	0.013	1.000	3.98	160.37	98.69

70-130
↓

Dataset: U:\Q4.PRO\results\170727M1\170727M1-15.qld

Last Altered: Friday, July 28, 2017 09:19:12 Pacific Daylight Time

Printed: Friday, July 28, 2017 09:20:31 Pacific Daylight Time

Name: 170727M1_15, Date: 27-Jul-2017, Time: 13:24:13, ID: SS170727M1-1 PFC SSS 17G2703, Description: PFC SSS 17G2703

	# Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec
32	32 d5-N-EtFOSAA	589.3 > 419	9591.058	59968.848	0.013	1.000	4.04	157.30	96.80
33	33 13C2-PFUnA	565 > 519.8	53532.066	59968.848	0.928	1.000	4.12	12.02	96.17
34	34 13C2-PFDoA	615 > 569.7	4293.898	59968.848	0.071	1.000	4.28	12.59	100.72
35	35 13C2-PFTeDA	714.8 > 669.6	14573.548	59968.848	0.273	1.000	4.62	11.12	88.95
36	36 13C4-PFBA	217 > 171.8	19378.115	19378.115	1.000	1.000	1.32	12.50	100.00
37	37 13C5-PFHxA	318 > 272.9	65249.512	65249.512	1.000	1.000	3.14	5.00	100.00
38	38 13C3-PFHxS	401.9 > 79.9	9129.876	9129.876	1.000	1.000	3.47	12.50	100.00
39	39 13C8-PFOA	421.3 > 376	55490.434	55490.434	1.000	1.000	3.60	12.50	100.00
40	40 13C9-PFNA	472.2 > 426.9	60366.590	60366.590	1.000	1.000	3.79	12.50	100.00
41	41 13C4-PFOS	503 > 79.9	9061.870	9061.870	1.000	1.000	3.84	12.50	100.00
42	42 13C6-PFDA	519.1 > 473.7	64909.809	64909.809	1.000	1.000	3.95	12.50	100.00
43	43 13C7-PFUnA	570.1 > 524.8	59968.848	59968.848	1.000	1.000	4.12	12.50	100.00

Dataset: U:\Q4.PRO\results\170727M1\170727M1-15.qld

Last Altered: Friday, July 28, 2017 09:19:12 Pacific Daylight Time

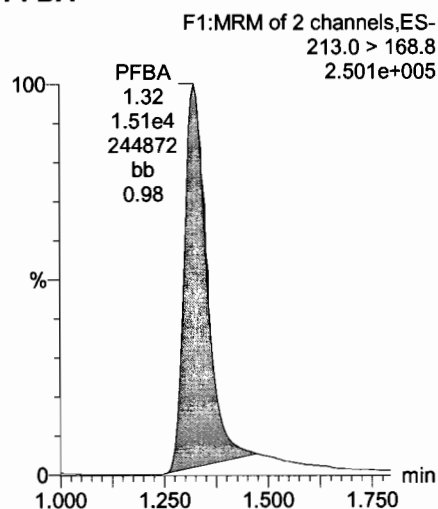
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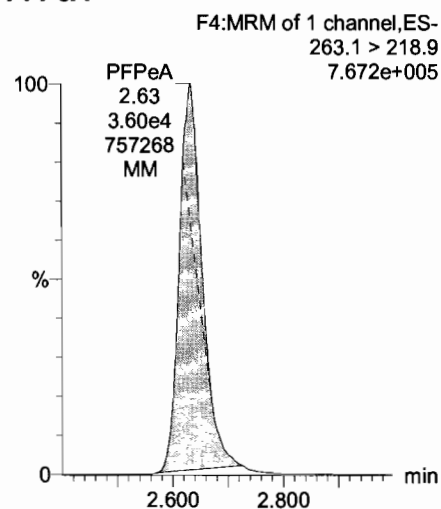
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Name: 170727M1_15, Date: 27-Jul-2017, Time: 13:24:13, ID: SS170727M1-1 PFC SSS 17G2703, Description: PFC SSS 17G2703

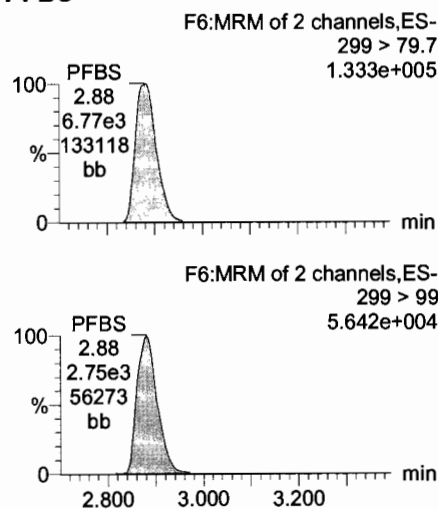
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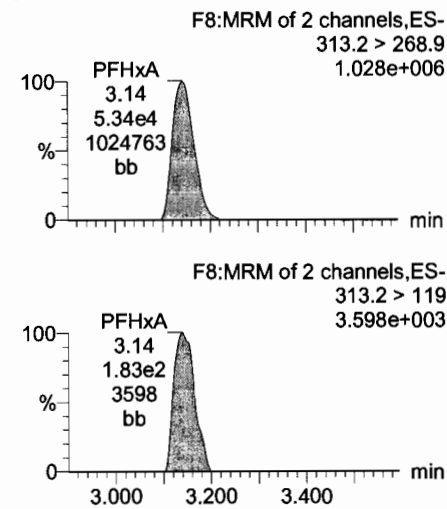
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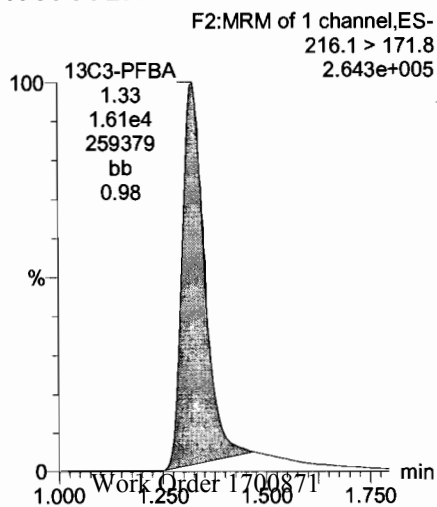
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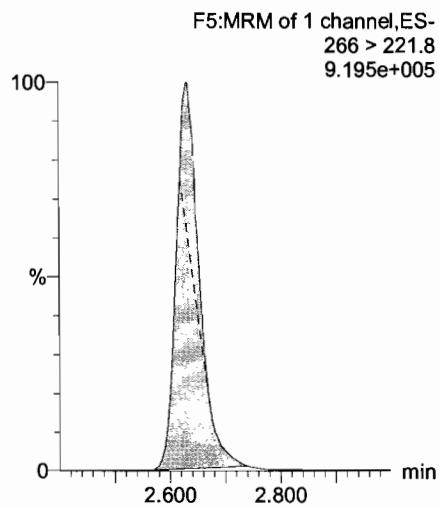
PFHxA



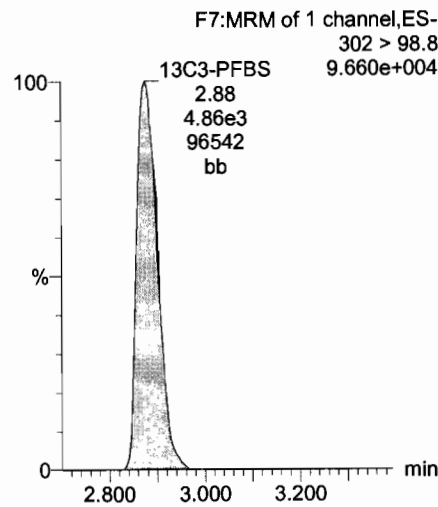
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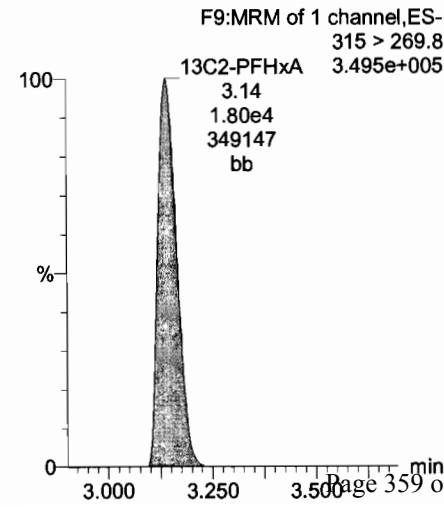
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



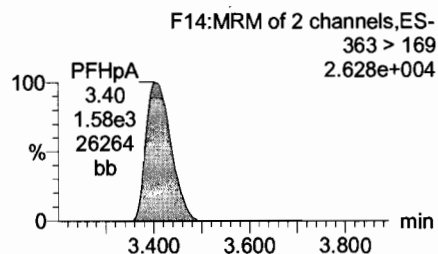
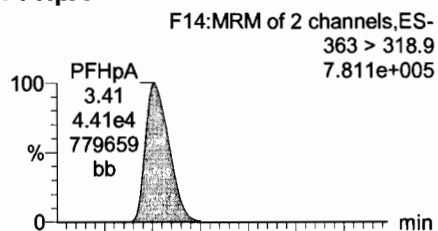
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Last Altered: Friday, July 28, 2017 09:19:12 Pacific Daylight Time

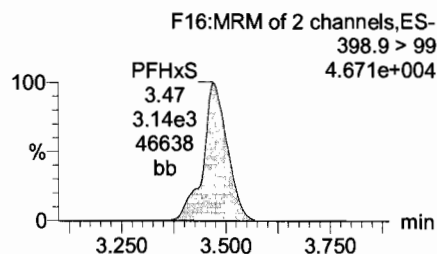
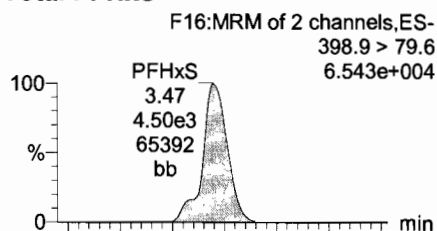
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Name: 170727M1_15, Date: 27-Jul-2017, Time: 13:24:13, ID: SS170727M1-1 PFC SSS 17G2703, Description: PFC SSS 17G2703

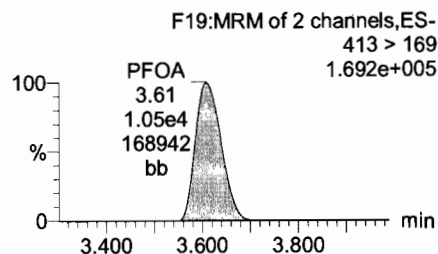
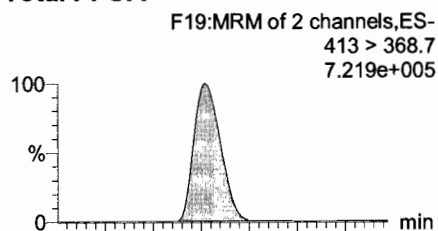
PFHpA



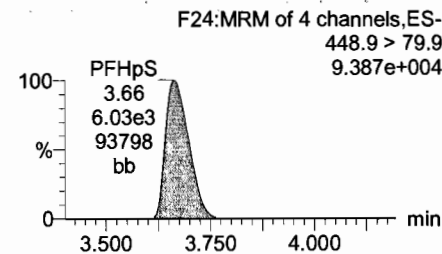
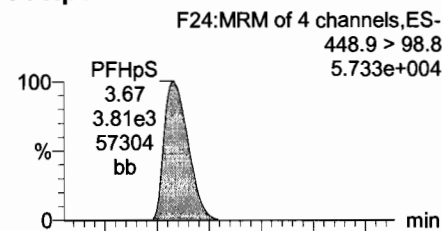
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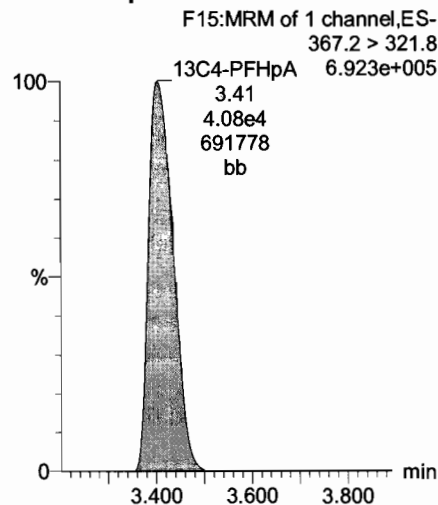
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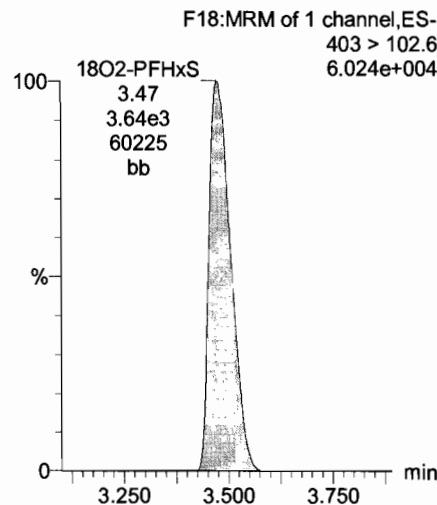
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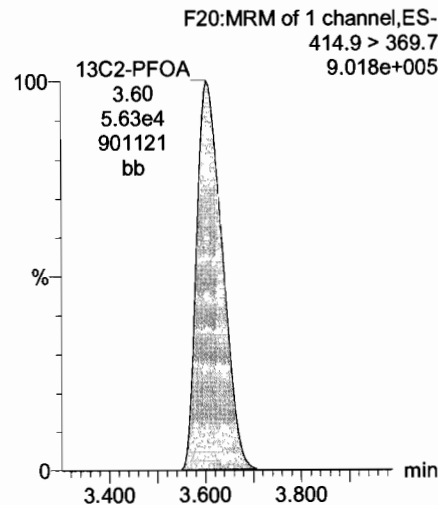
13C4-PFHpA



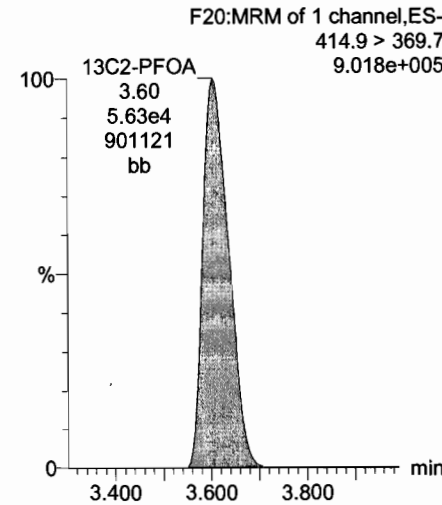
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13C2-PFOA



13C2-PFOA



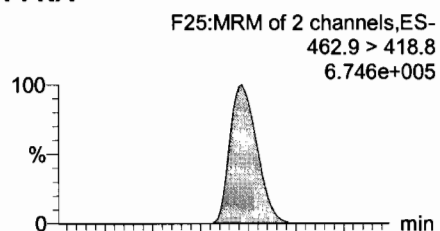
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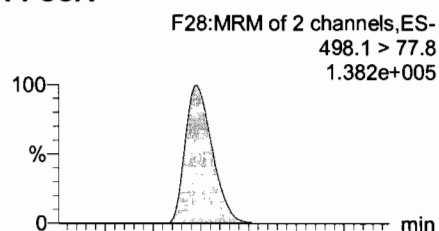
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Name: 170727M1_15, Date: 27-Jul-2017, Time: 13:24:13, ID: SS170727M1-1 PFC SSS 17G2703, Description: PFC SSS 17G2703

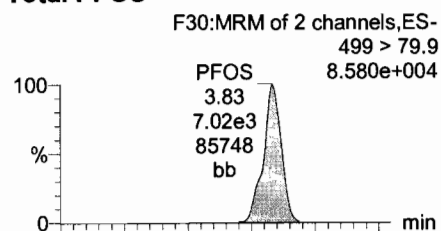
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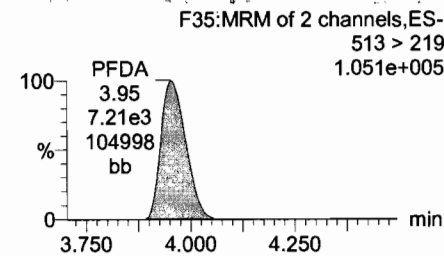
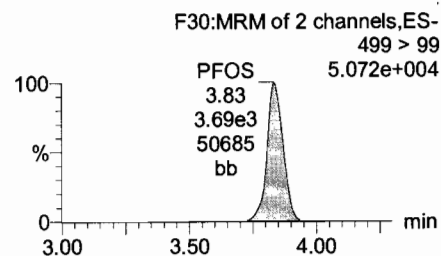
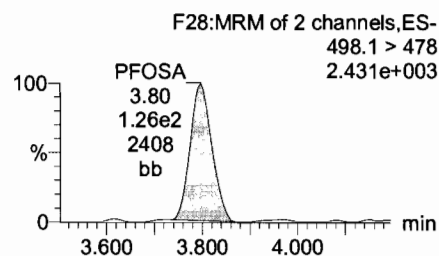
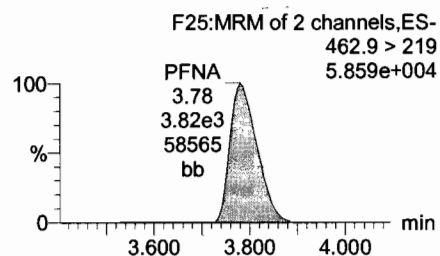
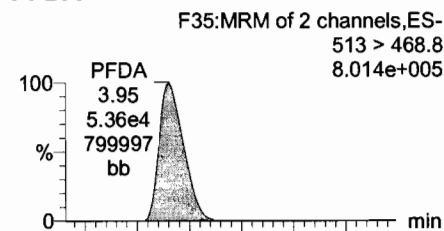
PFOSA



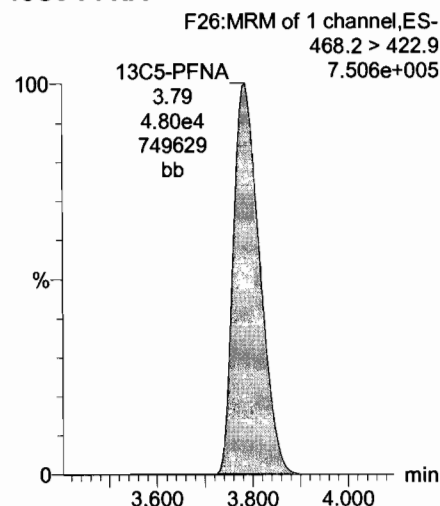
Total PFOS



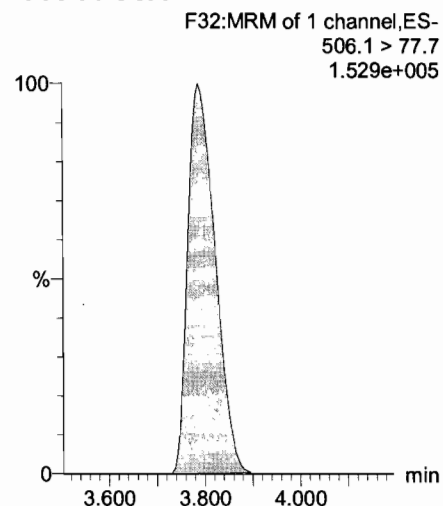
PFDA



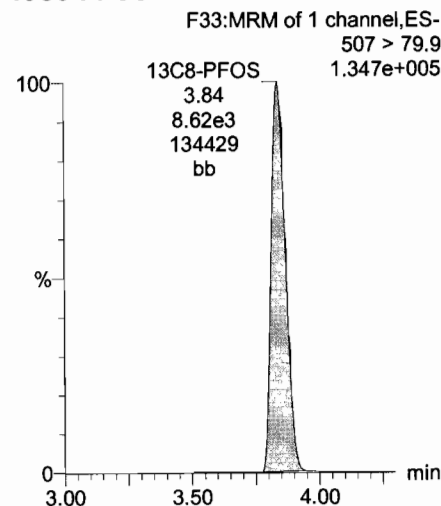
13C5-PFNA



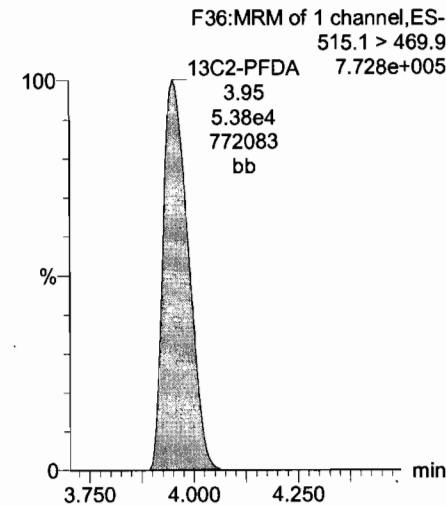
13C8-PFOSA



13C8-PFOS



13C2-PFDA



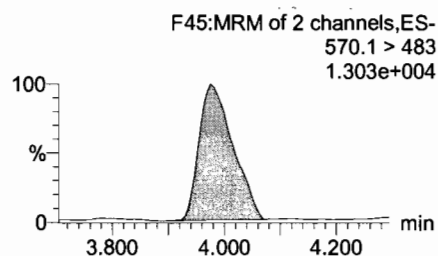
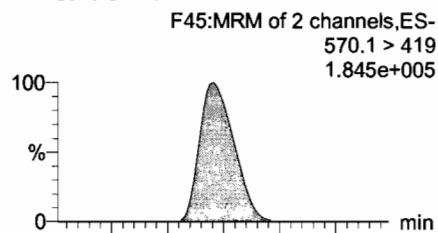
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Last Altered: Friday, July 28, 2017 09:19:12 Pacific Daylight Time

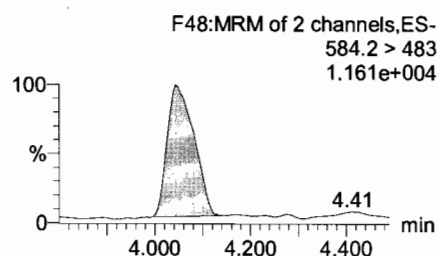
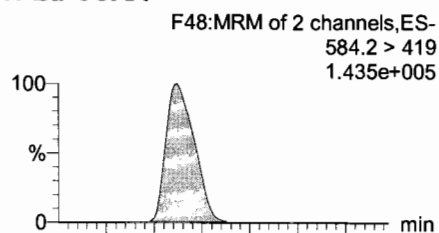
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Name: 170727M1_15, Date: 27-Jul-2017, Time: 13:24:13, ID: SS170727M1-1 PFC SSS 17G2703, Description: PFC SSS 17G2703

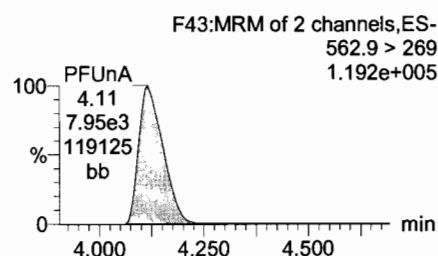
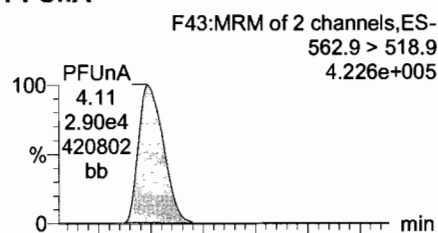
N-MeFOSAA



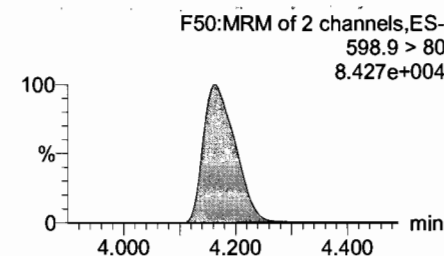
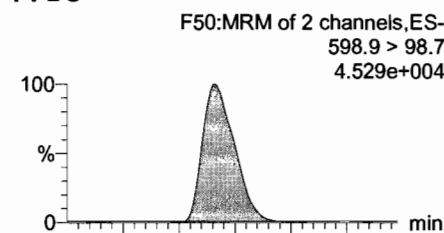
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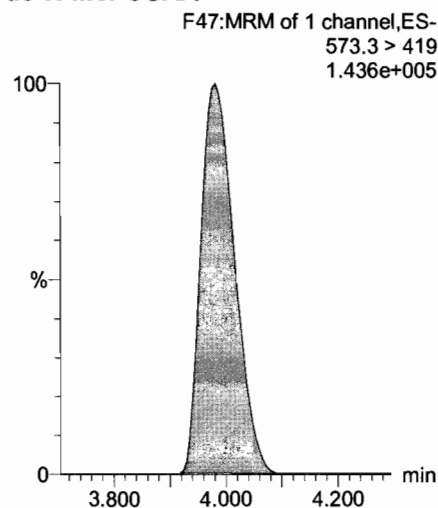
PFUnA



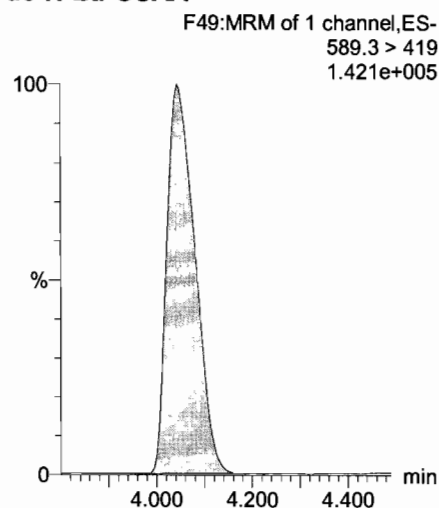
PFDS



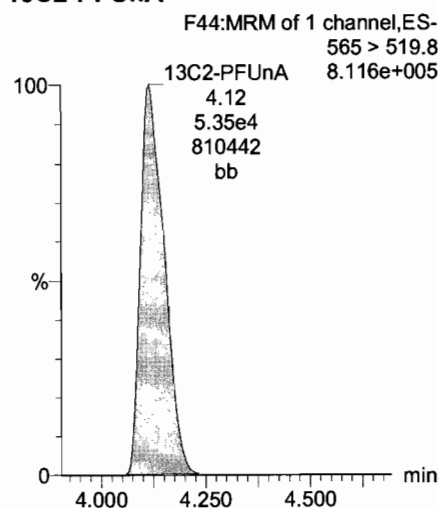
d3-N-MeFOSAA



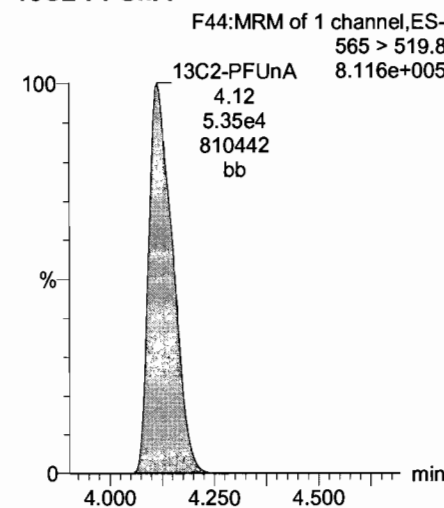
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



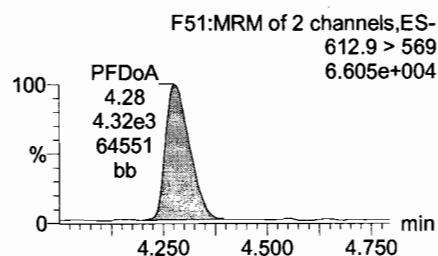
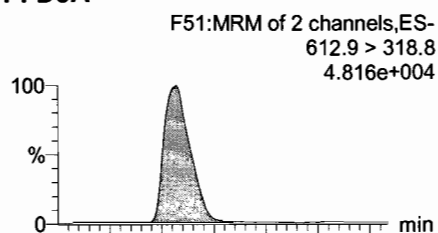
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Last Altered: Friday, July 28, 2017 09:19:12 Pacific Daylight Time

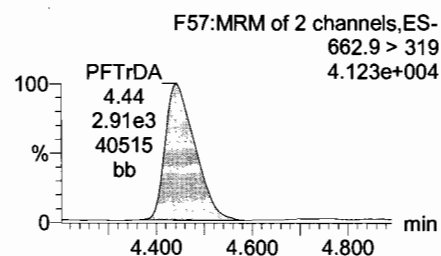
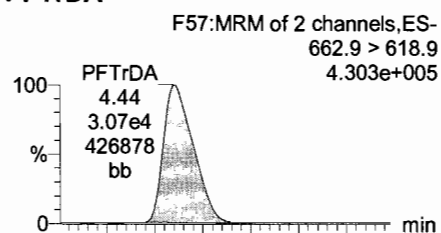
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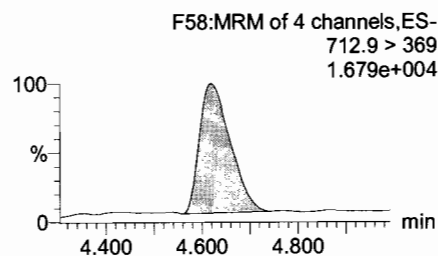
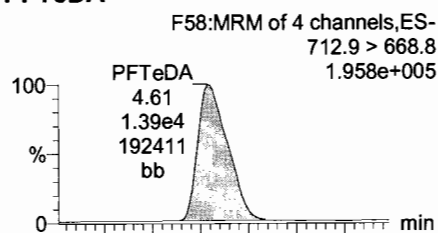
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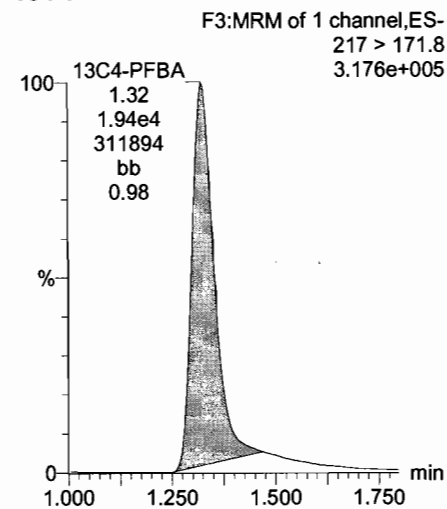
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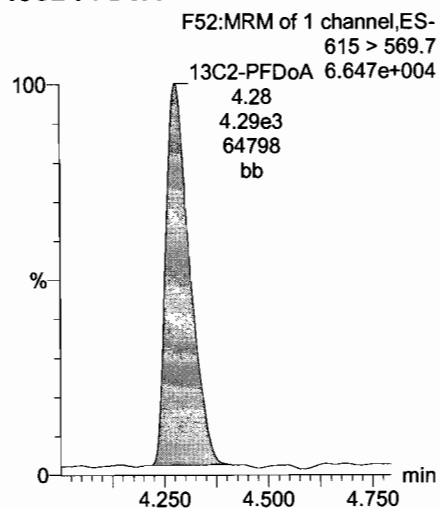
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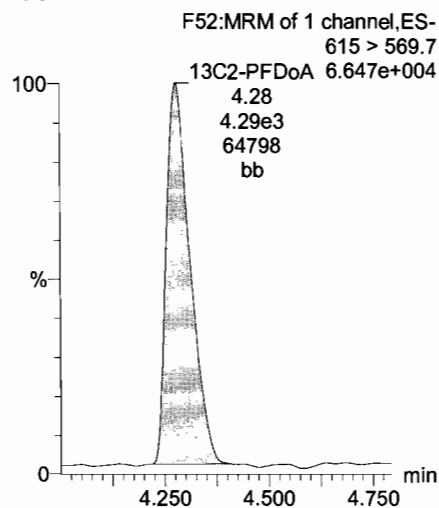
¹³C4-PFBA



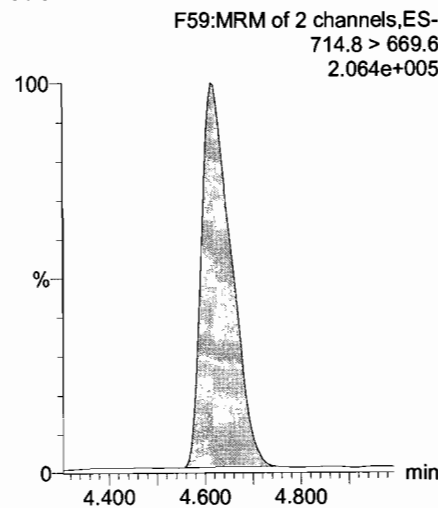
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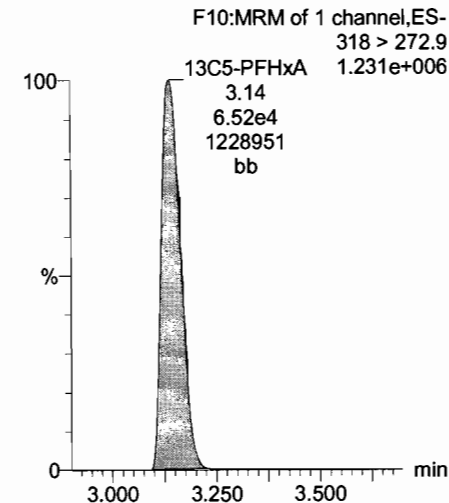
¹³C2-PFD_oA



¹³C2-PFT_eDA



¹³C5-PFHxA



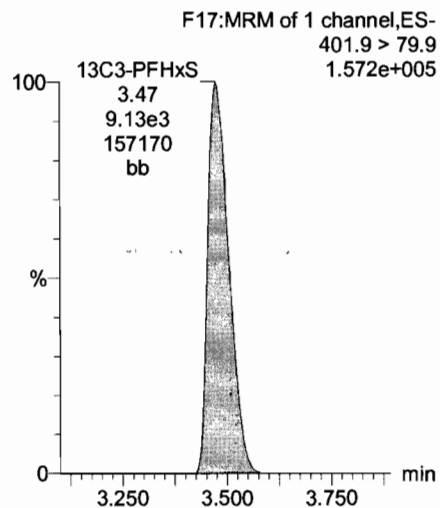
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Last Altered: Friday, July 28, 2017 09:19:12 Pacific Daylight Time

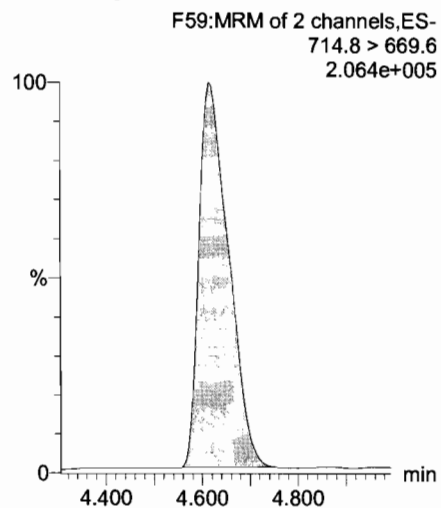
Printed: Friday, July 28, 2017 09:20:01 Pacific Daylight Time

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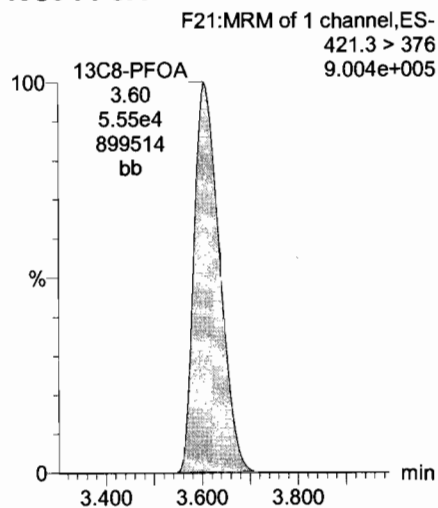
13C3-PFHxS



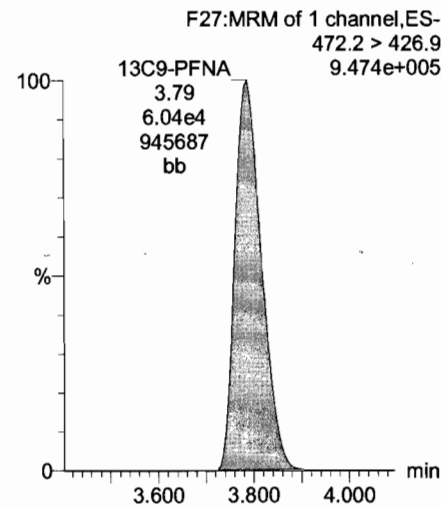
13C2-PFTeDA



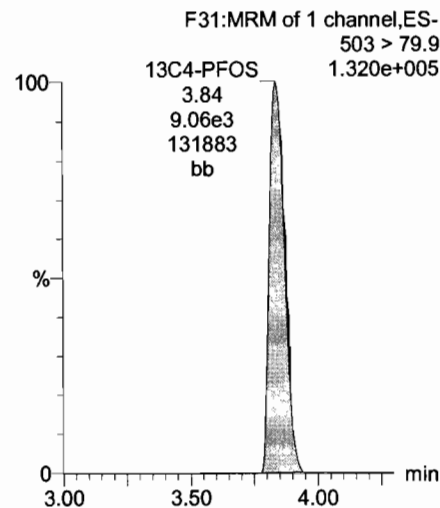
13C8-PFOA



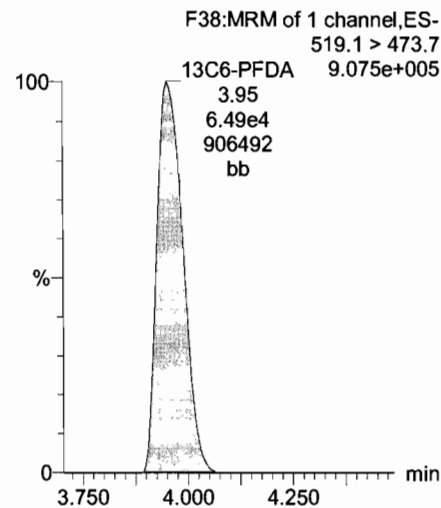
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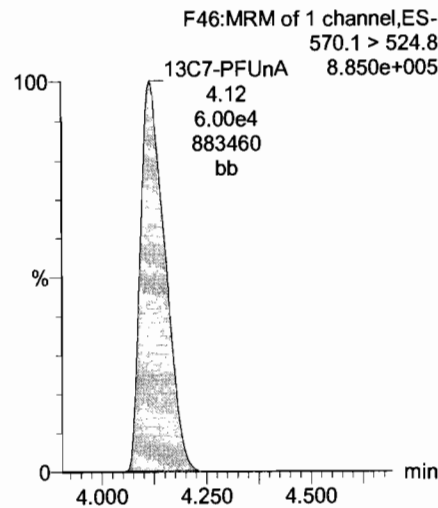
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:10:19 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:11:02 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999678$

Calibration curve: $0.000110804 * x^2 + 1.07999 * x + 0.11163$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

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

AC
7/30/17

See 7/31/17

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170728M2_2	Standard	0.250	1.35	476.635	15742.173	0.378	0.2	-1.2	NO	1.000	NO	MM
2	2 170728M2_3	Standard	0.500	1.35	899.031	15139.798	0.742	0.6	16.8	NO	1.000	NO	MM
3	3 170728M2_4	Standard	1.000	1.35	1598.174	15315.615	1.304	1.1	10.4	NO	1.000	NO	MM
4	4 170728M2_5	Standard	2.000	1.35	1810.805	8684.454	2.606	2.3	15.5	NO	1.000	NO	MM
5	5 170728M2_6	Standard	5.000	1.35	6713.694	15018.660	5.588	5.1	1.4	NO	1.000	NO	MM
6	6 170728M2_7	Standard	10.000	1.35	13340.125	15259.036	10.928	10.0	0.0	NO	1.000	NO	MM
7	7 170728M2_8	Standard	50.000	1.36	66516.945	15593.523	53.321	49.0	-2.0	NO	1.000	NO	MM
8	8 170728M2_9	Standard	100.000	1.35	137534.000	15681.832	109.628	100.4	0.4	NO	1.000	NO	MM
9	9 170728M2_10	Standard	250.000	1.36	306571.531	13830.456	277.080	250.0	0.0	NO	1.000	NO	MM

Compound name: PFPeA

Correlation coefficient: $r = 0.999801$, $r^2 = 0.999602$

Calibration curve: $0.958373 * x + 0.0576289$

Response type: Internal Std (Ref 21), 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 170728M2_2	Standard	0.250	2.65	679.107	29626.736	0.287	0.2	-4.5	NO	1.000	NO	MM
2	2 170728M2_3	Standard	0.500	2.66	1192.443	29534.408	0.505	0.5	-6.7	NO	1.000	NO	MM
3	3 170728M2_4	Standard	1.000	2.65	2536.703	29804.117	1.064	1.0	5.0	NO	1.000	NO	MM
4	4 170728M2_5	Standard	2.000	2.66	2849.220	16510.811	2.157	2.2	9.5	NO	1.000	NO	MM
5	5 170728M2_6	Standard	5.000	2.65	11458.210	28830.305	4.968	5.1	2.5	NO	1.000	NO	MM
6	6 170728M2_7	Standard	10.000	2.66	22812.604	30611.281	9.315	9.7	-3.4	NO	1.000	NO	MM
7	7 170728M2_8	Standard	50.000	2.66	114847.070	30216.350	47.510	49.5	-1.0	NO	1.000	NO	MM
8	8 170728M2_9	Standard	100.000	2.65	225237.328	30196.234	93.239	97.2	-2.8	NO	1.000	NO	MM
9	9 170728M2_10	Standard	250.000	2.66	522885.906	26920.408	242.793	253.3	1.3	NO	1.000	NO	MM

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:10:19 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:11:02 Pacific Daylight Time

Compound name: PFBS

Correlation coefficient: $r = 0.999861$, $r^2 = 0.999721$

Calibration curve: $1.85784 * x + -0.00404936$

Response type: Internal Std (Ref 22), 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 170728M2_2	Standard	0.250	2.90	124.236	3725.665	0.417	0.2	-9.4	NO	1.000	NO	bb
2	2 170728M2_3	Standard	0.500	2.89	287.609	3680.041	0.977	0.5	5.6	NO	1.000	NO	bb
3	3 170728M2_4	Standard	1.000	2.90	605.269	3805.429	1.988	1.1	7.2	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	2.89	650.990	2141.663	3.800	2.0	2.4	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	2.90	2677.018	3529.564	9.481	5.1	2.1	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	2.89	5207.783	3732.698	17.440	9.4	-6.1	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	2.90	25941.150	3533.129	91.778	49.4	-1.2	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	2.90	52001.789	3559.104	182.637	98.3	-1.7	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	2.90	109519.203	2916.369	469.416	252.7	1.1	NO	1.000	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999860$, $r^2 = 0.999719$

Calibration curve: $1.39516 * x + 0.138496$

Response type: Internal Std (Ref 23), 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 170728M2_2	Standard	0.250	3.13	1292.904	14757.339	0.438	0.2	-14.1	NO	1.000	NO	bb
2	2 170728M2_3	Standard	0.500	3.14	2294.264	14439.591	0.794	0.5	-6.0	NO	1.000	NO	bb
3	3 170728M2_4	Standard	1.000	3.13	4831.556	14702.263	1.643	1.1	7.8	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	3.14	5353.820	8433.100	3.174	2.2	8.8	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	3.14	22186.109	14339.198	7.736	5.4	8.9	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	3.14	41042.371	15042.279	13.642	9.7	-3.2	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	3.15	200035.875	14657.946	68.235	48.8	-2.4	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	3.14	411799.281	14800.772	139.114	99.6	-0.4	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	3.14	927431.500	13222.806	350.694	251.3	0.5	NO	1.000	NO	bb

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Last Altered: Sunday, July 30, 2017 08:10:19 Pacific Daylight Time

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Compound name: PFHpA

Correlation coefficient: $r = 0.999957$, $r^2 = 0.999914$

Calibration curve: $1.17847 * x + 0.0681471$

Response type: Internal Std (Ref 24), 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 170728M2_2	Standard	0.250	3.40	1204.282	43061.438	0.350	0.2	-4.5	NO	1.000	NO	bb
2	2 170728M2_3	Standard	0.500	3.40	2014.244	38433.738	0.655	0.5	-0.4	NO	1.000	NO	bb
3	3 170728M2_4	Standard	1.000	3.40	3878.673	40909.711	1.185	0.9	-5.2	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	3.40	4962.255	24182.768	2.565	2.1	5.9	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	3.41	19800.123	39156.566	6.321	5.3	6.1	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	3.41	37646.004	40354.555	11.661	9.8	-1.6	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	3.41	183598.906	38873.176	59.038	50.0	0.1	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	3.41	381024.406	40612.637	117.274	99.5	-0.5	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	3.41	849145.438	35974.605	295.050	250.3	0.1	NO	1.000	NO	bb

Compound name: PFHxS

Correlation coefficient: $r = 0.999604$, $r^2 = 0.999209$

Calibration curve: $1.66642 * x + 0.0527668$

Response type: Internal Std (Ref 25), 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 170728M2_2	Standard	0.250	3.48	173.816	3693.206	0.588	0.3	28.5	NO	0.999	NO	MM
2	2 170728M2_3	Standard	0.500	3.48	211.907	3400.828	0.779	0.4	-12.9	NO	0.999	NO	MM
3	3 170728M2_4	Standard	1.000	3.47	425.566	3811.290	1.396	0.8	-19.4	NO	0.999	NO	MM
4	4 170728M2_5	Standard	2.000	3.47	583.868	1965.832	3.713	2.2	9.8	NO	0.999	NO	bb
5	5 170728M2_6	Standard	5.000	3.47	2141.738	3173.995	8.435	5.0	0.6	NO	0.999	NO	bb
6	6 170728M2_7	Standard	10.000	3.48	4660.597	3599.749	16.184	9.7	-3.2	NO	0.999	NO	bb
7	7 170728M2_8	Standard	50.000	3.48	23173.209	3541.580	81.790	49.0	-1.9	NO	0.999	NO	bb
8	8 170728M2_9	Standard	100.000	3.48	46227.219	3591.229	160.903	96.5	-3.5	NO	0.999	NO	bb
9	9 170728M2_10	Standard	250.000	3.48	96280.008	2835.098	424.500	254.7	1.9	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

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Compound name: PFOA

Correlation coefficient: $r = 0.999602$, $r^2 = 0.999203$

Calibration curve: $0.972567 * x + 0.119743$

Response type: Internal Std (Ref 26), 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 170728M2_2	Standard	0.250	3.60	1776.834	67432.422	0.329	0.2	-13.8	NO	0.999	NO	bb
2	2 170728M2_3	Standard	0.500	3.60	3428.433	69121.398	0.620	0.5	2.9	NO	0.999	NO	bb
3	3 170728M2_4	Standard	1.000	3.60	6017.603	65175.223	1.154	1.1	6.4	NO	0.999	NO	bb
4	4 170728M2_5	Standard	2.000	3.60	6766.019	37231.426	2.272	2.2	10.6	NO	0.999	NO	bb
5	5 170728M2_6	Standard	5.000	3.61	24916.359	65033.895	4.789	4.8	-4.0	NO	0.999	NO	bb
6	6 170728M2_7	Standard	10.000	3.60	50878.426	65066.762	9.774	9.9	-0.7	NO	0.999	NO	bb
7	7 170728M2_8	Standard	50.000	3.61	258837.422	65231.879	49.599	50.9	1.8	NO	0.999	NO	bb
8	8 170728M2_9	Standard	100.000	3.61	477892.000	64313.508	92.883	95.4	-4.6	NO	0.999	NO	bb
9	9 170728M2_10	Standard	250.000	3.61	1058067.125	53563.473	246.919	253.8	1.5	NO	0.999	NO	bb

Compound name: PFHpS

Correlation coefficient: $r = 0.999698$, $r^2 = 0.999396$

Calibration curve: $0.0834866 * x + 0.000361382$

Response type: Internal Std (Ref 26), 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 170728M2_2	Standard	0.250	3.66	129.349	67432.422	0.024	0.3	13.1	NO	0.999	NO	bb
2	2 170728M2_3	Standard	0.500	3.66	184.534	69121.398	0.033	0.4	-20.9	NO	0.999	NO	bb
3	3 170728M2_4	Standard	1.000	3.65	440.810	65175.223	0.085	1.0	0.8	NO	0.999	NO	MM
4	4 170728M2_5	Standard	2.000	3.67	446.333	37231.426	0.150	1.8	-10.5	NO	0.999	NO	bb
5	5 170728M2_6	Standard	5.000	3.66	2501.044	65033.895	0.481	5.8	15.1	NO	0.999	NO	bb
6	6 170728M2_7	Standard	10.000	3.67	4417.773	65066.762	0.849	10.2	1.6	NO	0.999	NO	bb
7	7 170728M2_8	Standard	50.000	3.67	22320.723	65231.879	4.277	51.2	2.5	NO	0.999	NO	bb
8	8 170728M2_9	Standard	100.000	3.67	43490.797	64313.508	8.453	101.2	1.2	NO	0.999	NO	bb
9	9 170728M2_10	Standard	250.000	3.67	88324.172	53563.473	20.612	246.9	-1.2	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

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Compound name: PFNA

Correlation coefficient: $r = 0.999774$, $r^2 = 0.999549$

Calibration curve: $1.0688 * x + 0.0838738$

Response type: Internal Std (Ref 27), 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 170728M2_2	Standard	0.250	3.78	1355.064	56165.996	0.302	0.2	-18.5	NO	1.000	NO	bb
2	2 170728M2_3	Standard	0.500	3.78	2871.220	57557.055	0.624	0.5	1.0	NO	1.000	NO	bb
3	3 170728M2_4	Standard	1.000	3.78	5715.737	60117.641	1.188	1.0	3.3	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	3.78	6187.412	32443.916	2.384	2.2	7.6	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	3.78	26880.975	59082.828	5.687	5.2	4.9	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	3.79	51086.453	55947.012	11.414	10.6	6.0	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	3.79	225656.344	55181.797	51.117	47.7	-4.5	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	3.79	479043.500	56232.570	106.487	99.6	-0.4	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	3.79	1056532.875	49074.555	269.114	251.7	0.7	NO	1.000	NO	bb

Compound name: PFOSA

Correlation coefficient: $r = 0.998852$, $r^2 = 0.997705$

Calibration curve: $1.09922 * x + 0.0380461$

Response type: Internal Std (Ref 28), 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 170728M2_2	Standard	0.250	3.79	212.952	7534.616	0.353	0.3	14.7	NO	0.998	NO	bb
2	2 170728M2_3	Standard	0.500	3.79	402.743	7838.506	0.642	0.5	9.9	NO	0.998	NO	bb
3	3 170728M2_4	Standard	1.000	3.78	641.875	7863.147	1.020	0.9	-10.6	NO	0.998	NO	bb
4	4 170728M2_5	Standard	2.000	3.79	796.114	4067.927	2.446	2.2	9.5	NO	0.998	NO	bb
5	5 170728M2_6	Standard	5.000	3.79	3167.917	8322.412	4.758	4.3	-14.1	NO	0.998	NO	bb
6	6 170728M2_7	Standard	10.000	3.80	6695.482	7844.739	10.669	9.7	-3.3	NO	0.998	NO	bb
7	7 170728M2_8	Standard	50.000	3.80	31041.506	7294.865	53.191	48.4	-3.3	NO	0.998	NO	bb
8	8 170728M2_9	Standard	100.000	3.79	58226.086	7074.365	102.882	93.6	-6.4	NO	0.998	NO	bb
9	9 170728M2_10	Standard	250.000	3.79	126557.727	5557.022	284.680	258.9	3.6	NO	0.998	NO	bb

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Compound name: PFOS

Coefficient of Determination: $R^2 = 0.999381$

Calibration curve: $-8.2411e-005 * x^2 + 0.991329 * x + 0.038537$

Response type: Internal Std (Ref 29), 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 170728M2_2	Standard	0.250	3.85	185.263	10386.165	0.223	0.2	-25.6	NO	0.999	NO	MM
2	2 170728M2_3	Standard	0.500	3.83	552.121	10949.846	0.630	0.6	19.4	NO	0.999	NO	bb
3	3 170728M2_4	Standard	1.000	3.83	874.687	11038.252	0.991	1.0	-4.0	NO	0.999	NO	bb
4	4 170728M2_5	Standard	2.000	3.83	1051.018	5675.427	2.315	2.3	14.8	NO	0.999	NO	bb
5	5 170728M2_6	Standard	5.000	3.83	4488.643	10976.905	5.111	5.1	2.4	NO	0.999	NO	bb
6	6 170728M2_7	Standard	10.000	3.83	9036.851	10238.276	11.033	11.1	11.0	NO	0.999	NO	bb
7	7 170728M2_8	Standard	50.000	3.84	40832.254	10447.924	48.852	49.4	-1.1	NO	0.999	NO	bb
8	8 170728M2_9	Standard	100.000	3.84	80281.375	10381.430	96.665	98.3	-1.7	NO	0.999	NO	bb
9	9 170728M2_10	Standard	250.000	3.84	173677.109	8917.339	243.454	250.8	0.3	NO	0.999	NO	bb

Compound name: PFDA

Correlation coefficient: $r = 0.999404$, $r^2 = 0.998807$

Calibration curve: $1.20688 * x + 0.163006$

Response type: Internal Std (Ref 30), 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 170728M2_2	Standard	0.250	3.95	1834.598	60003.141	0.382	0.2	-27.4	NO	0.999	NO	bb
2	2 170728M2_3	Standard	0.500	3.95	3284.270	55549.078	0.739	0.5	-4.5	NO	0.999	NO	bb
3	3 170728M2_4	Standard	1.000	3.95	6330.603	53618.211	1.476	1.1	8.8	NO	0.999	NO	bb
4	4 170728M2_5	Standard	2.000	3.95	6936.152	30851.922	2.810	2.2	9.7	NO	0.999	NO	bb
5	5 170728M2_6	Standard	5.000	3.95	31825.025	59808.203	6.651	5.4	7.5	NO	0.999	NO	bb
6	6 170728M2_7	Standard	10.000	3.96	63066.832	64638.613	12.196	10.0	-0.3	NO	0.999	NO	bb
7	7 170728M2_8	Standard	50.000	3.96	307105.938	58663.914	65.438	54.1	8.2	NO	0.999	NO	bb
8	8 170728M2_9	Standard	100.000	3.96	539413.000	55892.832	120.636	99.8	-0.2	NO	0.999	NO	bb
9	9 170728M2_10	Standard	250.000	3.96	1346063.625	56744.188	296.520	245.6	-1.8	NO	0.999	NO	bb

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999878$

Calibration curve: $-0.00407341 * x^2 + 19.807 * x + -0.260375$

Response type: Internal Std (Ref 31), 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 170728M2_2	Standard	0.250	3.96	435.997	12883.249	5.499	0.3	16.3	NO	1.000	NO	bd
2	2 170728M2_3	Standard	0.500	3.98	741.759	12942.593	9.313	0.5	-3.3	NO	1.000	NO	bb
3	3 170728M2_4	Standard	1.000	3.98	1500.287	13619.269	17.901	0.9	-8.3	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	3.98	1869.939	7508.003	40.472	2.1	2.9	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	3.98	8162.221	14192.388	93.456	4.7	-5.3	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	3.98	16022.469	13644.029	190.827	9.7	-3.3	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	3.99	73798.828	12178.927	984.677	50.2	0.5	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	3.99	144718.797	12044.903	1952.428	100.7	0.7	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	3.99	311738.625	10798.391	4691.211	249.7	-0.1	NO	1.000	NO	bb

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999787$

Calibration curve: $-0.00107779 * x^2 + 15.2465 * x + 0.807358$

Response type: Internal Std (Ref 32), 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 170728M2_2	Standard	0.250	4.04	379.553	13002.753	4.743	0.3	3.3	NO	1.000	NO	bb
2	2 170728M2_3	Standard	0.500	4.04	831.407	13332.326	10.134	0.6	22.3	NO	1.000	NO	bb
3	3 170728M2_4	Standard	1.000	4.04	1236.473	13734.974	14.629	0.9	-9.3	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	4.04	1479.109	7359.929	32.657	2.1	4.5	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	4.05	6354.800	13694.013	75.409	4.9	-2.1	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	4.05	12531.979	12997.170	156.684	10.2	2.3	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	4.05	60396.695	12723.811	771.346	50.7	1.4	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	4.05	113763.313	12372.299	1494.188	98.6	-1.4	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	4.05	260195.766	11272.279	3750.955	250.4	0.2	NO	1.000	NO	bb

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Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.999945$

Calibration curve: $-0.000352587 * x^2 + 0.738655 * x + 0.0923596$

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 170728M2_2	Standard	0.250	4.11	1300.977	57359.027	0.284	0.3	3.5	NO	1.000	NO	bb
2	2 170728M2_3	Standard	0.500	4.11	2222.104	62862.797	0.442	0.5	-5.3	NO	1.000	NO	bb
3	3 170728M2_4	Standard	1.000	4.11	4280.404	62925.098	0.850	1.0	2.7	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	4.11	4679.629	38112.383	1.535	2.0	-2.3	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	4.11	20068.451	65242.195	3.845	5.1	1.9	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	4.12	38402.559	64369.324	7.457	10.0	0.2	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	4.12	181049.781	63436.871	35.675	49.3	-1.3	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	4.12	354982.063	62525.133	70.968	100.8	0.8	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	4.12	806806.375	62024.961	162.597	249.8	-0.1	NO	1.000	NO	bb

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.999598$

Calibration curve: $-4.79281e-005 * x^2 + 0.0714733 * x + -0.00107069$

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 170728M2_2	Standard	0.250	4.15	96.159	57359.027	0.021	0.3	23.3	NO	1.000	NO	MM
2	2 170728M2_3	Standard	0.500	4.17	132.913	62862.797	0.026	0.4	-23.0	NO	1.000	NO	MM
3	3 170728M2_4	Standard	1.000	4.17	352.819	62925.098	0.070	1.0	-0.4	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	4.15	460.965	38112.383	0.151	2.1	6.7	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	4.16	1773.629	65242.195	0.340	4.8	-4.3	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	4.16	3496.559	64369.324	0.679	9.6	-4.2	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	4.17	18043.170	63436.871	3.555	51.5	3.1	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	4.17	32985.578	62525.133	6.594	98.8	-1.2	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	4.17	73842.891	62024.961	14.882	250.2	0.1	NO	1.000	NO	bb

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.998624$

Calibration curve: $0.000483062 * x^2 + 0.770384 * x + 0.341437$

Response type: Internal Std (Ref 34), 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 170728M2_2	Standard	0.250	4.26	92.309	5962.159	0.194			NO	0.999	NO	bbXI
2	2 170728M2_3	Standard	0.500	4.28	429.801	6995.869	0.768	0.6	10.7	NO	0.999	NO	MM
3	3 170728M2_4	Standard	1.000	4.26	454.014	6271.752	0.905	0.7	-26.9	NO	0.999	NO	bb
4	4 170728M2_5	Standard	2.000	4.27	533.506	3674.716	1.815	1.9	-4.5	NO	0.999	NO	bb
5	5 170728M2_6	Standard	5.000	4.27	2461.487	6599.834	4.662	5.6	11.8	NO	0.999	NO	bb
6	6 170728M2_7	Standard	10.000	4.29	4687.078	6719.549	8.719	10.8	8.0	NO	0.999	NO	bb
7	7 170728M2_8	Standard	50.000	4.28	22330.574	6608.889	42.236	52.6	5.3	NO	0.999	NO	bb
8	8 170728M2_9	Standard	100.000	4.28	42539.887	6820.428	77.964	95.1	-4.9	NO	0.999	NO	bb
9	9 170728M2_10	Standard	250.000	4.28	104320.703	5812.105	224.361	251.2	0.5	NO	0.999	NO	bb

Compound name: PFTrDA

Correlation coefficient: $r = 0.999451$, $r^2 = 0.998903$

Calibration curve: $9.7472 * x + 1.17215$

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 170728M2_2	Standard	0.250	4.43	1587.994	5962.159	3.329	0.2	-11.5	NO	0.999	NO	bb
2	2 170728M2_3	Standard	0.500	4.43	3275.602	6995.869	5.853	0.5	-4.0	NO	0.999	NO	MM
3	3 170728M2_4	Standard	1.000	4.43	5908.142	6271.752	11.775	1.1	8.8	NO	0.999	NO	bb
4	4 170728M2_5	Standard	2.000	4.44	6200.105	3674.716	21.090	2.0	2.2	NO	0.999	NO	bd
5	5 170728M2_6	Standard	5.000	4.44	28220.949	6599.834	53.450	5.4	7.3	NO	0.999	NO	bb
6	6 170728M2_7	Standard	10.000	4.44	54049.188	6719.549	100.545	10.2	1.9	NO	0.999	NO	bb
7	7 170728M2_8	Standard	50.000	4.45	253970.109	6608.889	480.357	49.2	-1.7	NO	0.999	NO	bb
8	8 170728M2_9	Standard	100.000	4.45	504655.469	6820.428	924.897	94.8	-5.2	NO	0.999	NO	bb
9	9 170728M2_10	Standard	250.000	4.44	1158187.375	5812.105	2490.895	255.4	2.2	NO	0.999	NO	bb

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Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999781$

Calibration curve: $-0.000168072 * x^2 + 1.03773 * x + 0.147897$

Response type: Internal Std (Ref 35), 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 170728M2_2	Standard	0.250	4.61	1104.568	41761.434	0.331	0.2	-29.6	NO	1.000	NO	MM
2	2 170728M2_3	Standard	0.500	4.61	2480.283	43223.504	0.717	0.5	9.7	NO	1.000	NO	MM
3	3 170728M2_4	Standard	1.000	4.61	4145.502	42342.496	1.224	1.0	3.7	NO	1.000	NO	bb
4	4 170728M2_5	Standard	2.000	4.61	4391.375	22739.943	2.414	2.2	9.2	NO	1.000	NO	bb
5	5 170728M2_6	Standard	5.000	4.61	19689.096	43281.676	5.686	5.3	6.8	NO	1.000	NO	bb
6	6 170728M2_7	Standard	10.000	4.62	37513.137	44255.934	10.596	10.1	0.8	NO	1.000	NO	bb
7	7 170728M2_8	Standard	50.000	4.62	178771.672	43177.305	51.755	50.1	0.3	NO	1.000	NO	bb
8	8 170728M2_9	Standard	100.000	4.62	355712.438	44024.184	100.999	98.8	-1.2	NO	1.000	NO	bb
9	9 170728M2_10	Standard	250.000	4.62	812877.375	40719.973	249.533	250.5	0.2	NO	1.000	NO	bb

Compound name: 13C3-PFBA

Response Factor: 1.06832

RRF SD: 0.0716737, Relative SD: 6.70898

Response type: Internal Std (Ref 36), 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 170728M2_2	Standard	12.500	1.34	15742.173	14679.223	13.405	12.5	0.4	NO		NO	MM
2	2 170728M2_3	Standard	12.500	1.35	15139.798	14157.839	13.367	12.5	0.1	NO		NO	MM
3	3 170728M2_4	Standard	12.500	1.35	15315.615	13901.761	13.771	12.9	3.1	NO		NO	MM
4	4 170728M2_5	Standard	12.500	1.35	8684.454	7966.370	13.627	12.8	2.0	NO		NO	MM
5	5 170728M2_6	Standard	12.500	1.35	15018.660	13542.045	13.863	13.0	3.8	NO		NO	MM
6	6 170728M2_7	Standard	12.500	1.35	15259.036	14135.810	13.493	12.6	1.0	NO		NO	MM
7	7 170728M2_8	Standard	12.500	1.35	15593.523	13890.406	14.033	13.1	5.1	NO		NO	MM
8	8 170728M2_9	Standard	12.500	1.35	15681.832	14422.259	13.592	12.7	1.8	NO		NO	MM
9	9 170728M2_10	Standard	12.500	1.36	13830.456	15665.605	11.036	10.3	-17.4	NO		NO	MM

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Compound name: 13C3-PFPeA

Response Factor: 0.27137

RRF SD: 0.0158354, Relative SD: 5.83535

Response type: Internal Std (Ref 37), 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 170728M2_2	Standard	12.500	2.65	29626.736	43858.891	3.378	12.4	-0.4	NO		NO	MM
2	2 170728M2_3	Standard	12.500	2.65	29534.408	43343.379	3.407	12.6	0.4	NO		NO	MM
3	3 170728M2_4	Standard	12.500	2.65	29804.117	42543.984	3.503	12.9	3.3	NO		NO	MM
4	4 170728M2_5	Standard	12.500	2.65	16510.811	24635.240	3.351	12.3	-1.2	NO		NO	MM
5	5 170728M2_6	Standard	12.500	2.65	28830.305	42398.152	3.400	12.5	0.2	NO		NO	MM
6	6 170728M2_7	Standard	12.500	2.65	30611.281	42712.195	3.583	13.2	5.6	NO		NO	MM
7	7 170728M2_8	Standard	12.500	2.66	30216.350	43123.621	3.503	12.9	3.3	NO		NO	MM
8	8 170728M2_9	Standard	12.500	2.65	30196.234	43136.543	3.500	12.9	3.2	NO		NO	MM
9	9 170728M2_10	Standard	12.500	2.66	26920.408	46352.453	2.904	10.7	-14.4	NO		NO	MM

Compound name: 13C3-PFBS

Response Factor: 0.0330768

RRF SD: 0.00312302, Relative SD: 9.44172

Response type: Internal Std (Ref 37), 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 170728M2_2	Standard	12.500	2.89	3725.665	43858.891	0.425	12.8	2.7	NO		NO	bb
2	2 170728M2_3	Standard	12.500	2.89	3680.041	43343.379	0.425	12.8	2.7	NO		NO	bb
3	3 170728M2_4	Standard	12.500	2.90	3805.429	42543.984	0.447	13.5	8.2	NO		NO	bb
4	4 170728M2_5	Standard	12.500	2.90	2141.663	24635.240	0.435	13.1	5.1	NO		NO	bb
5	5 170728M2_6	Standard	12.500	2.89	3529.564	42398.152	0.416	12.6	0.7	NO		NO	bb
6	6 170728M2_7	Standard	12.500	2.89	3732.698	42712.195	0.437	13.2	5.7	NO		NO	bb
7	7 170728M2_8	Standard	12.500	2.90	3533.129	43123.621	0.410	12.4	-0.9	NO		NO	bb
8	8 170728M2_9	Standard	12.500	2.90	3559.104	43136.543	0.413	12.5	-0.2	NO		NO	bb
9	9 170728M2_10	Standard	12.500	2.90	2916.369	46352.453	0.315	9.5	-23.9	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.335131

RRF SD: 0.0194922, Relative SD: 5.81629

Response type: Internal Std (Ref 37), 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 170728M2_2	Standard	5.000	3.13	14757.339	43858.891	1.682	5.0	0.4	NO		NO	bb
2	2 170728M2_3	Standard	5.000	3.14	14439.591	43343.379	1.666	5.0	-0.6	NO		NO	bb
3	3 170728M2_4	Standard	5.000	3.13	14702.263	42543.984	1.728	5.2	3.1	NO		NO	bb
4	4 170728M2_5	Standard	5.000	3.13	8433.100	24635.240	1.712	5.1	2.1	NO		NO	bb
5	5 170728M2_6	Standard	5.000	3.14	14339.198	42398.152	1.691	5.0	0.9	NO		NO	bb
6	6 170728M2_7	Standard	5.000	3.14	15042.279	42712.195	1.761	5.3	5.1	NO		NO	bb
7	7 170728M2_8	Standard	5.000	3.14	14657.946	43123.621	1.700	5.1	1.4	NO		NO	bb
8	8 170728M2_9	Standard	5.000	3.14	14800.772	43136.543	1.716	5.1	2.4	NO		NO	bb
9	9 170728M2_10	Standard	5.000	3.14	13222.806	46352.453	1.426	4.3	-14.9	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.368851

RRF SD: 0.0255164, Relative SD: 6.91781

Response type: Internal Std (Ref 37), 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 170728M2_2	Standard	12.500	3.40	43061.438	43858.891	4.909	13.3	6.5	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.40	38433.738	43343.379	4.434	12.0	-3.8	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.41	40909.711	42543.984	4.808	13.0	4.3	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.40	24182.768	24635.240	4.908	13.3	6.5	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.41	39156.566	42398.152	4.618	12.5	0.2	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.41	40354.555	42712.195	4.724	12.8	2.5	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.41	38873.176	43123.621	4.507	12.2	-2.2	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.41	40612.637	43136.543	4.707	12.8	2.1	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.41	35974.605	46352.453	3.881	10.5	-15.8	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.460288

RRF SD: 0.0389674, Relative SD: 8.46587

Response type: Internal Std (Ref 38), 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 170728M2_2	Standard	12.500	3.47	3693.206	7812.813	5.909	12.8	2.7	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.47	3400.828	7661.151	5.549	12.1	-3.6	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.47	3811.290	7158.323	6.655	14.5	15.7	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.47	1965.832	4300.112	5.714	12.4	-0.7	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.48	3173.995	6977.436	5.686	12.4	-1.2	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.47	3599.749	7970.943	5.645	12.3	-1.9	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.49	3541.580	7411.993	5.973	13.0	3.8	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.48	3591.229	7651.521	5.867	12.7	2.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.48	2835.098	7407.810	4.784	10.4	-16.9	NO		NO	bb

Compound name: 13C2-PFOA

Response Factor: 1.29343

RRF SD: 0.0978713, Relative SD: 7.56682

Response type: Internal Std (Ref 39), 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 170728M2_2	Standard	12.500	3.60	67432.422	50353.582	16.740	12.9	3.5	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.60	69121.398	51722.332	16.705	12.9	3.3	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.60	65175.223	51349.039	15.866	12.3	-1.9	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.60	37231.426	27008.686	17.231	13.3	6.6	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.61	65033.895	47128.594	17.249	13.3	6.7	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.60	65066.762	50246.984	16.187	12.5	0.1	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.61	65231.879	50282.098	16.216	12.5	0.3	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.60	64313.508	49800.309	16.143	12.5	-0.2	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.61	53563.473	50823.395	13.174	10.2	-18.5	NO		NO	bb

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Compound name: 13C5-PFNA

Response Factor: 0.985933

RRF SD: 0.0816002, Relative SD: 8.27645

Response type: Internal Std (Ref 40), 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 170728M2_2	Standard	12.500	3.78	56165.996	55554.719	12.638	12.8	2.5	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.78	57557.055	59404.484	12.111	12.3	-1.7	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.78	60117.641	56554.453	13.288	13.5	7.8	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.78	32443.916	30540.498	13.279	13.5	7.7	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.78	59082.828	60275.895	12.253	12.4	-0.6	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.78	55947.012	55392.355	12.625	12.8	2.4	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.79	55181.797	55075.922	12.524	12.7	1.6	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.79	56232.570	56839.453	12.367	12.5	0.3	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.79	49074.555	62380.453	9.834	10.0	-20.2	NO		NO	bb

Compound name: 13C8-PFOSA

Response Factor: 0.132492

RRF SD: 0.0168341, Relative SD: 12.7057

Response type: Internal Std (Ref 43), 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 170728M2_2	Standard	12.500	3.79	7534.616	55026.387	1.712	12.9	3.3	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.79	7838.506	57174.012	1.714	12.9	3.5	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.78	7863.147	56604.801	1.736	13.1	4.8	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.79	4067.927	32976.875	1.542	11.6	-6.9	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.79	8322.412	54183.844	1.920	14.5	15.9	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.79	7844.739	56154.422	1.746	13.2	5.4	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.79	7294.865	54787.105	1.664	12.6	0.5	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.79	7074.365	51641.449	1.712	12.9	3.4	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.79	5557.022	59947.359	1.159	8.7	-30.0	NO		NO	bb

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Compound name: 13C8-PFOS

Response Factor: 1.18433

RRF SD: 0.0947906, Relative SD: 8.00375

Response type: Internal Std (Ref 41), 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	170728M2_2	Standard	12.500	3.83	10386.165	8684.470	14.949	12.6	1.0	NO		NO	bb
2	2	170728M2_3	Standard	12.500	3.83	10949.846	8914.332	15.354	13.0	3.7	NO		NO	bb
3	3	170728M2_4	Standard	12.500	3.83	11038.252	8566.251	16.107	13.6	8.8	NO		NO	bb
4	4	170728M2_5	Standard	12.500	3.83	5675.427	5073.126	13.984	11.8	-5.5	NO		NO	bb
5	5	170728M2_6	Standard	12.500	3.83	10976.905	9069.241	15.129	12.8	2.2	NO		NO	bb
6	6	170728M2_7	Standard	12.500	3.83	10238.276	9441.893	13.554	11.4	-8.4	NO		NO	bb
7	7	170728M2_8	Standard	12.500	3.84	10447.924	8412.276	15.525	13.1	4.9	NO		NO	bb
8	8	170728M2_9	Standard	12.500	3.84	10381.430	8094.951	16.031	13.5	8.3	NO		NO	bb
9	9	170728M2_10	Standard	12.500	3.84	8917.339	8844.576	12.603	10.6	-14.9	NO		NO	bb

Compound name: 13C2-PFDA

Response Factor: 0.997715

RRF SD: 0.0821401, Relative SD: 8.23282

Response type: Internal Std (Ref 42), 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	170728M2_2	Standard	12.500	3.95	60003.141	60101.680	12.480	12.5	0.1	NO		NO	bb
2	2	170728M2_3	Standard	12.500	3.95	55549.078	61783.742	11.239	11.3	-9.9	NO		NO	bb
3	3	170728M2_4	Standard	12.500	3.95	53618.211	49093.789	13.652	13.7	9.5	NO		NO	bb
4	4	170728M2_5	Standard	12.500	3.95	30851.922	30032.572	12.841	12.9	3.0	NO		NO	bb
5	5	170728M2_6	Standard	12.500	3.95	59808.203	63988.594	11.683	11.7	-6.3	NO		NO	bb
6	6	170728M2_7	Standard	12.500	3.95	64638.613	57573.766	14.034	14.1	12.5	NO		NO	bb
7	7	170728M2_8	Standard	12.500	3.96	58663.914	57140.258	12.833	12.9	2.9	NO		NO	bb
8	8	170728M2_9	Standard	12.500	3.96	55892.832	55938.863	12.490	12.5	0.1	NO		NO	bb
9	9	170728M2_10	Standard	12.500	3.96	56744.188	64531.480	10.992	11.0	-11.9	NO		NO	bb

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Compound name: d3-N-MeFOSAA

Response Factor: 0.0176867

RRF SD: 0.0016968, Relative SD: 9.59363

Response type: Internal Std (Ref 43), 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 170728M2_2	Standard	162.500	3.97	12883.249	55026.387	2.927	165.5	1.8	NO		NO	bb
2	2 170728M2_3	Standard	162.500	3.98	12942.593	57174.012	2.830	160.0	-1.5	NO		NO	bb
3	3 170728M2_4	Standard	162.500	3.97	13619.269	56604.801	3.008	170.0	4.6	NO		NO	bb
4	4 170728M2_5	Standard	162.500	3.98	7508.003	32976.875	2.846	160.9	-1.0	NO		NO	bb
5	5 170728M2_6	Standard	162.500	3.98	14192.388	54183.844	3.274	185.1	13.9	NO		NO	bb
6	6 170728M2_7	Standard	162.500	3.98	13644.029	56154.422	3.037	171.7	5.7	NO		NO	bb
7	7 170728M2_8	Standard	162.500	3.99	12178.927	54787.105	2.779	157.1	-3.3	NO		NO	bb
8	8 170728M2_9	Standard	162.500	3.99	12044.903	51641.449	2.916	164.8	1.4	NO		NO	bb
9	9 170728M2_10	Standard	162.500	3.98	10798.391	59947.359	2.252	127.3	-21.7	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.0177723

RRF SD: 0.00139291, Relative SD: 7.83752

Response type: Internal Std (Ref 43), 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 170728M2_2	Standard	162.500	4.04	13002.753	55026.387	2.954	166.2	2.3	NO		NO	bb
2	2 170728M2_3	Standard	162.500	4.04	13332.326	57174.012	2.915	164.0	0.9	NO		NO	bb
3	3 170728M2_4	Standard	162.500	4.04	13734.974	56604.801	3.033	170.7	5.0	NO		NO	bb
4	4 170728M2_5	Standard	162.500	4.04	7359.929	32976.875	2.790	157.0	-3.4	NO		NO	bb
5	5 170728M2_6	Standard	162.500	4.04	13694.013	54183.844	3.159	177.8	9.4	NO		NO	bb
6	6 170728M2_7	Standard	162.500	4.05	12997.170	56154.422	2.893	162.8	0.2	NO		NO	bb
7	7 170728M2_8	Standard	162.500	4.05	12723.811	54787.105	2.903	163.3	0.5	NO		NO	bb
8	8 170728M2_9	Standard	162.500	4.05	12372.299	51641.449	2.995	168.5	3.7	NO		NO	bb
9	9 170728M2_10	Standard	162.500	4.05	11272.279	59947.359	2.350	132.3	-18.6	NO		NO	bb

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Compound name: 13C2-PFUnA

Response Factor: 1.12922

RRF SD: 0.0629902, Relative SD: 5.57822

Response type: Internal Std (Ref 43), 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 170728M2_2	Standard	12.500	4.11	57359.027	55026.387	13.030	11.5	-7.7	NO		NO	bb
2	2 170728M2_3	Standard	12.500	4.12	62862.797	57174.012	13.744	12.2	-2.6	NO		NO	bb
3	3 170728M2_4	Standard	12.500	4.11	62925.098	56604.801	13.896	12.3	-1.6	NO		NO	bb
4	4 170728M2_5	Standard	12.500	4.11	38112.383	32976.875	14.447	12.8	2.3	NO		NO	bb
5	5 170728M2_6	Standard	12.500	4.12	65242.195	54183.844	15.051	13.3	6.6	NO		NO	bb
6	6 170728M2_7	Standard	12.500	4.12	64369.324	56154.422	14.329	12.7	1.5	NO		NO	bb
7	7 170728M2_8	Standard	12.500	4.12	63436.871	54787.105	14.473	12.8	2.5	NO		NO	bb
8	8 170728M2_9	Standard	12.500	4.12	62525.133	51641.449	15.134	13.4	7.2	NO		NO	bb
9	9 170728M2_10	Standard	12.500	4.12	62024.961	59947.359	12.933	11.5	-8.4	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.116007

RRF SD: 0.0102256, Relative SD: 8.81464

Response type: Internal Std (Ref 43), 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 170728M2_2	Standard	12.500	4.27	5962.159	55026.387	1.354	11.7	-6.6	NO		NO	bb
2	2 170728M2_3	Standard	12.500	4.27	6995.869	57174.012	1.530	13.2	5.5	NO		NO	bd
3	3 170728M2_4	Standard	12.500	4.27	6271.752	56604.801	1.385	11.9	-4.5	NO		NO	bb
4	4 170728M2_5	Standard	12.500	4.27	3674.716	32976.875	1.393	12.0	-3.9	NO		NO	bb
5	5 170728M2_6	Standard	12.500	4.27	6599.834	54183.844	1.523	13.1	5.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	4.28	6719.549	56154.422	1.496	12.9	3.2	NO		NO	bb
7	7 170728M2_8	Standard	12.500	4.28	6608.889	54787.105	1.508	13.0	4.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	4.28	6820.428	51641.449	1.651	14.2	13.8	NO		NO	bb
9	9 170728M2_10	Standard	12.500	4.28	5812.105	59947.359	1.212	10.4	-16.4	NO		NO	bb

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:10:19 Pacific Daylight Time

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Compound name: 13C2-PFTeDA

Response Factor: 0.762144

RRF SD: 0.0538952, Relative SD: 7.07152

Response type: Internal Std (Ref 43), 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 170728M2_2	Standard	12.500	4.60	41761.434	55026.387	9.487	12.4	-0.4	NO		NO	bb
2	2 170728M2_3	Standard	12.500	4.61	43223.504	57174.012	9.450	12.4	-0.8	NO		NO	bb
3	3 170728M2_4	Standard	12.500	4.61	42342.496	56604.801	9.350	12.3	-1.9	NO		NO	bb
4	4 170728M2_5	Standard	12.500	4.61	22739.943	32976.875	8.620	11.3	-9.5	NO		NO	bb
5	5 170728M2_6	Standard	12.500	4.62	43281.676	54183.844	9.985	13.1	4.8	NO		NO	bb
6	6 170728M2_7	Standard	12.500	4.62	44255.934	56154.422	9.851	12.9	3.4	NO		NO	bb
7	7 170728M2_8	Standard	12.500	4.63	43177.305	54787.105	9.851	12.9	3.4	NO		NO	bb
8	8 170728M2_9	Standard	12.500	4.63	44024.184	51641.449	10.656	14.0	11.9	NO		NO	bb
9	9 170728M2_10	Standard	12.500	4.62	40719.973	59947.359	8.491	11.1	-10.9	NO		NO	bb

Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 1.30185e-016, Relative SD: 1.30185e-014

Response type: Internal Std (Ref 36), 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 170728M2_2	Standard	12.500	1.34	14679.223	14679.223	12.500	12.5	0.0	NO		NO	bb
2	2 170728M2_3	Standard	12.500	1.35	14157.839	14157.839	12.500	12.5	0.0	NO		NO	bb
3	3 170728M2_4	Standard	12.500	1.35	13901.761	13901.761	12.500	12.5	0.0	NO		NO	bb
4	4 170728M2_5	Standard	12.500	1.35	7966.370	7966.370	12.500	12.5	0.0	NO		NO	bb
5	5 170728M2_6	Standard	12.500	1.36	13542.045	13542.045	12.500	12.5	0.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	1.36	14135.810	14135.810	12.500	12.5	0.0	NO		NO	bb
7	7 170728M2_8	Standard	12.500	1.36	13890.406	13890.406	12.500	12.5	0.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	1.35	14422.259	14422.259	12.500	12.5	0.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	1.36	15665.605	15665.605	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

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Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), 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 170728M2_2	Standard	5.000	3.13	43858.891	43858.891	5.000	5.0	0.0	NO		NO	bb
2	2 170728M2_3	Standard	5.000	3.14	43343.379	43343.379	5.000	5.0	0.0	NO		NO	bb
3	3 170728M2_4	Standard	5.000	3.13	42543.984	42543.984	5.000	5.0	0.0	NO		NO	bb
4	4 170728M2_5	Standard	5.000	3.14	24635.240	24635.240	5.000	5.0	0.0	NO		NO	bb
5	5 170728M2_6	Standard	5.000	3.14	42398.152	42398.152	5.000	5.0	0.0	NO		NO	bb
6	6 170728M2_7	Standard	5.000	3.14	42712.195	42712.195	5.000	5.0	0.0	NO		NO	bb
7	7 170728M2_8	Standard	5.000	3.14	43123.621	43123.621	5.000	5.0	0.0	NO		NO	bb
8	8 170728M2_9	Standard	5.000	3.14	43136.543	43136.543	5.000	5.0	0.0	NO		NO	bb
9	9 170728M2_10	Standard	5.000	3.14	46352.453	46352.453	5.000	5.0	0.0	NO		NO	bb

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 38), 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 170728M2_2	Standard	12.500	3.47	7812.813	7812.813	12.500	12.5	0.0	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.47	7661.151	7661.151	12.500	12.5	0.0	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.48	7158.323	7158.323	12.500	12.5	0.0	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.47	4300.112	4300.112	12.500	12.5	0.0	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.48	6977.436	6977.436	12.500	12.5	0.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.48	7970.943	7970.943	12.500	12.5	0.0	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.48	7411.993	7411.993	12.500	12.5	0.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.48	7651.521	7651.521	12.500	12.5	0.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.49	7407.810	7407.810	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

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Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 39), 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 170728M2_2	Standard	12.500	3.60	50353.582	50353.582	12.500	12.5	0.0	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.60	51722.332	51722.332	12.500	12.5	0.0	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.60	51349.039	51349.039	12.500	12.5	0.0	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.60	27008.686	27008.686	12.500	12.5	0.0	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.60	47128.594	47128.594	12.500	12.5	0.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.61	50246.984	50246.984	12.500	12.5	0.0	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.61	50282.098	50282.098	12.500	12.5	0.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.60	49800.309	49800.309	12.500	12.5	0.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.61	50823.395	50823.395	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 1.30185e-016, Relative SD: 1.30185e-014

Response type: Internal Std (Ref 40), 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 170728M2_2	Standard	12.500	3.78	55554.719	55554.719	12.500	12.5	0.0	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.78	59404.484	59404.484	12.500	12.5	0.0	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.78	56554.453	56554.453	12.500	12.5	0.0	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.78	30540.498	30540.498	12.500	12.5	0.0	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.78	60275.895	60275.895	12.500	12.5	0.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.79	55392.355	55392.355	12.500	12.5	0.0	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.79	55075.922	55075.922	12.500	12.5	0.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.79	56839.453	56839.453	12.500	12.5	0.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.78	62380.453	62380.453	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 41), 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 170728M2_2	Standard	12.500	3.83	8684.470	8684.470	12.500	12.5	0.0	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.83	8914.332	8914.332	12.500	12.5	0.0	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.83	8566.251	8566.251	12.500	12.5	0.0	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.83	5073.126	5073.126	12.500	12.5	0.0	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.83	9069.241	9069.241	12.500	12.5	0.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.84	9441.893	9441.893	12.500	12.5	0.0	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.84	8412.276	8412.276	12.500	12.5	0.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.84	8094.951	8094.951	12.500	12.5	0.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.84	8844.576	8844.576	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 8.77708e-017, Relative SD: 8.77708e-015

Response type: Internal Std (Ref 42), 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 170728M2_2	Standard	12.500	3.95	60101.680	60101.680	12.500	12.5	0.0	NO		NO	bb
2	2 170728M2_3	Standard	12.500	3.95	61783.742	61783.742	12.500	12.5	0.0	NO		NO	bb
3	3 170728M2_4	Standard	12.500	3.94	49093.789	49093.789	12.500	12.5	0.0	NO		NO	bb
4	4 170728M2_5	Standard	12.500	3.95	30032.572	30032.572	12.500	12.5	0.0	NO		NO	bb
5	5 170728M2_6	Standard	12.500	3.95	63988.594	63988.594	12.500	12.5	0.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	3.95	57573.766	57573.766	12.500	12.5	0.0	NO		NO	bb
7	7 170728M2_8	Standard	12.500	3.95	57140.258	57140.258	12.500	12.5	0.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	3.96	55938.863	55938.863	12.500	12.5	0.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	3.95	64531.480	64531.480	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:10:19 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:11:02 Pacific Daylight Time

Compound name: 13C7-PFUnA

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 43), 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 170728M2_2	Standard	12.500	4.11	55026.387	55026.387	12.500	12.5	0.0	NO		NO	MM
2	2 170728M2_3	Standard	12.500	4.12	57174.012	57174.012	12.500	12.5	0.0	NO		NO	bb
3	3 170728M2_4	Standard	12.500	4.11	56604.801	56604.801	12.500	12.5	0.0	NO		NO	bb
4	4 170728M2_5	Standard	12.500	4.11	32976.875	32976.875	12.500	12.5	0.0	NO		NO	bb
5	5 170728M2_6	Standard	12.500	4.12	54183.844	54183.844	12.500	12.5	0.0	NO		NO	bb
6	6 170728M2_7	Standard	12.500	4.12	56154.422	56154.422	12.500	12.5	0.0	NO		NO	bb
7	7 170728M2_8	Standard	12.500	4.12	54787.105	54787.105	12.500	12.5	0.0	NO		NO	bb
8	8 170728M2_9	Standard	12.500	4.12	51641.449	51641.449	12.500	12.5	0.0	NO		NO	bb
9	9 170728M2_10	Standard	12.500	4.12	59947.359	59947.359	12.500	12.5	0.0	NO		NO	bb

Dataset: Untitled

Last Altered: Monday, July 31, 2017 08:41:44 Pacific Daylight Time

Printed: Monday, July 31, 2017 08:42:20 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170728M2_1	IPA	28-Jul-17	16:09:52
2	170728M2_2	ST170728M2-1 PFC CS-2 17G2824	28-Jul-17	16:20:47
3	170728M2_3	ST170728M2-2 PFC CS-1 17G2825	28-Jul-17	16:31:32
4	170728M2_4	ST170728M2-3 PFC CS0 17G2826	28-Jul-17	16:42:11
5	170728M2_5	ST170728M2-4 PFC CS1 17G2827	28-Jul-17	16:52:57
6	170728M2_6	ST170728M2-5 PFC CS2 17G2828	28-Jul-17	17:03:36
7	170728M2_7	ST170728M2-6 PFC CS3 17G2829	28-Jul-17	17:14:14
8	170728M2_8	ST170728M2-7 PFC CS4 17G2830	28-Jul-17	17:24:53
9	170728M2_9	ST170728M2-8 PFC CS5 17G2831	28-Jul-17	17:35:31
10	170728M2_10	ST170728M2-9 PFC CS6 17G2801	28-Jul-17	17:46:09
11	170728M2_11	ST170728M2-10 PFC CS7 17G2802	28-Jul-17	17:56:56
12	170728M2_12	IPA	28-Jul-17	18:07:42
13	170728M2_13	SS170728M2-1 PFC SSS 17G2823	28-Jul-17	18:18:40
14	170728M2_14	IPA	28-Jul-17	18:29:24

Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 28 Jul 2017 08:40:43

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:05:03

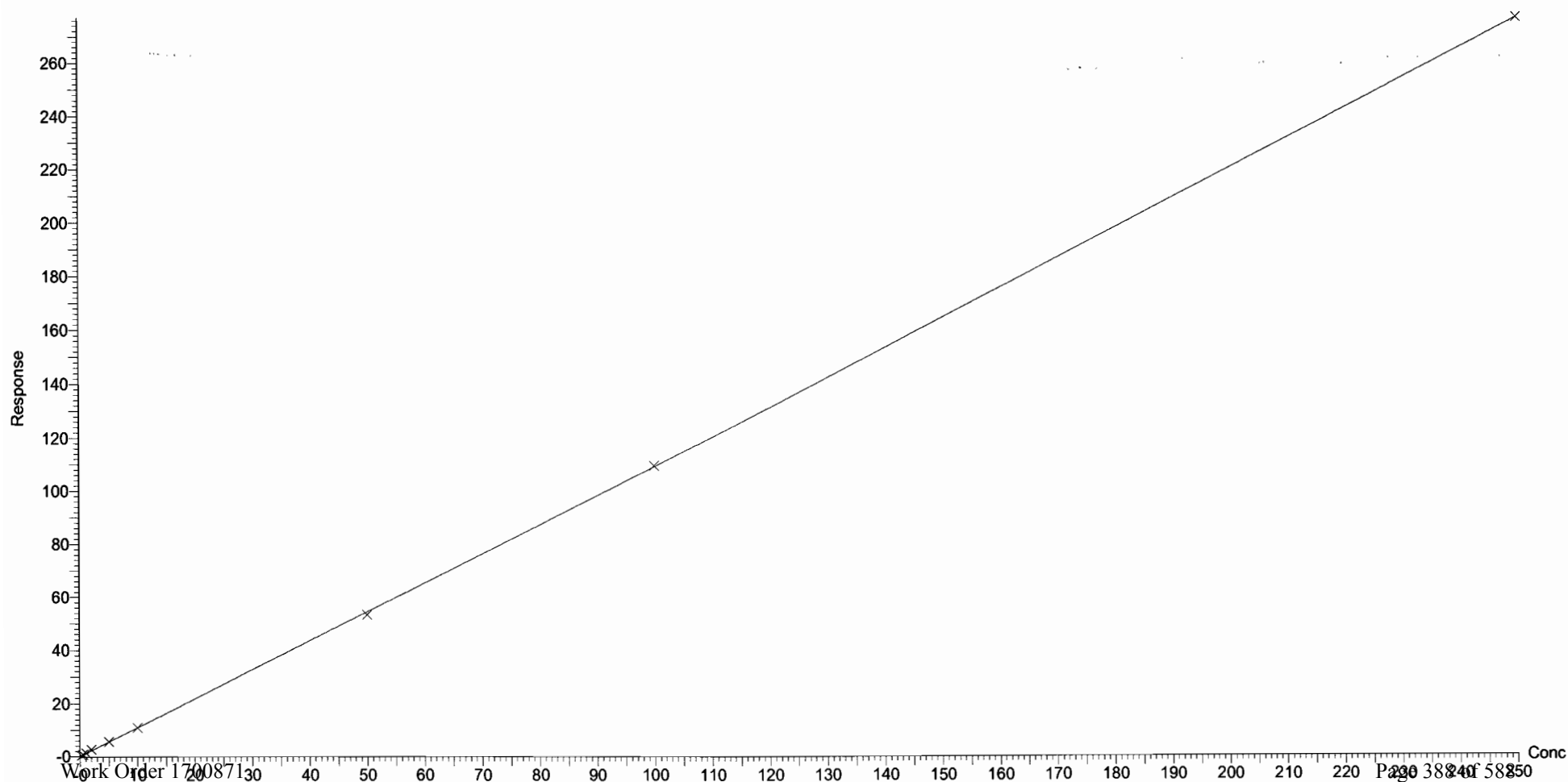
Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999678$

Calibration curve: $0.000110804 * x^2 + 1.07999 * x + 0.11163$

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

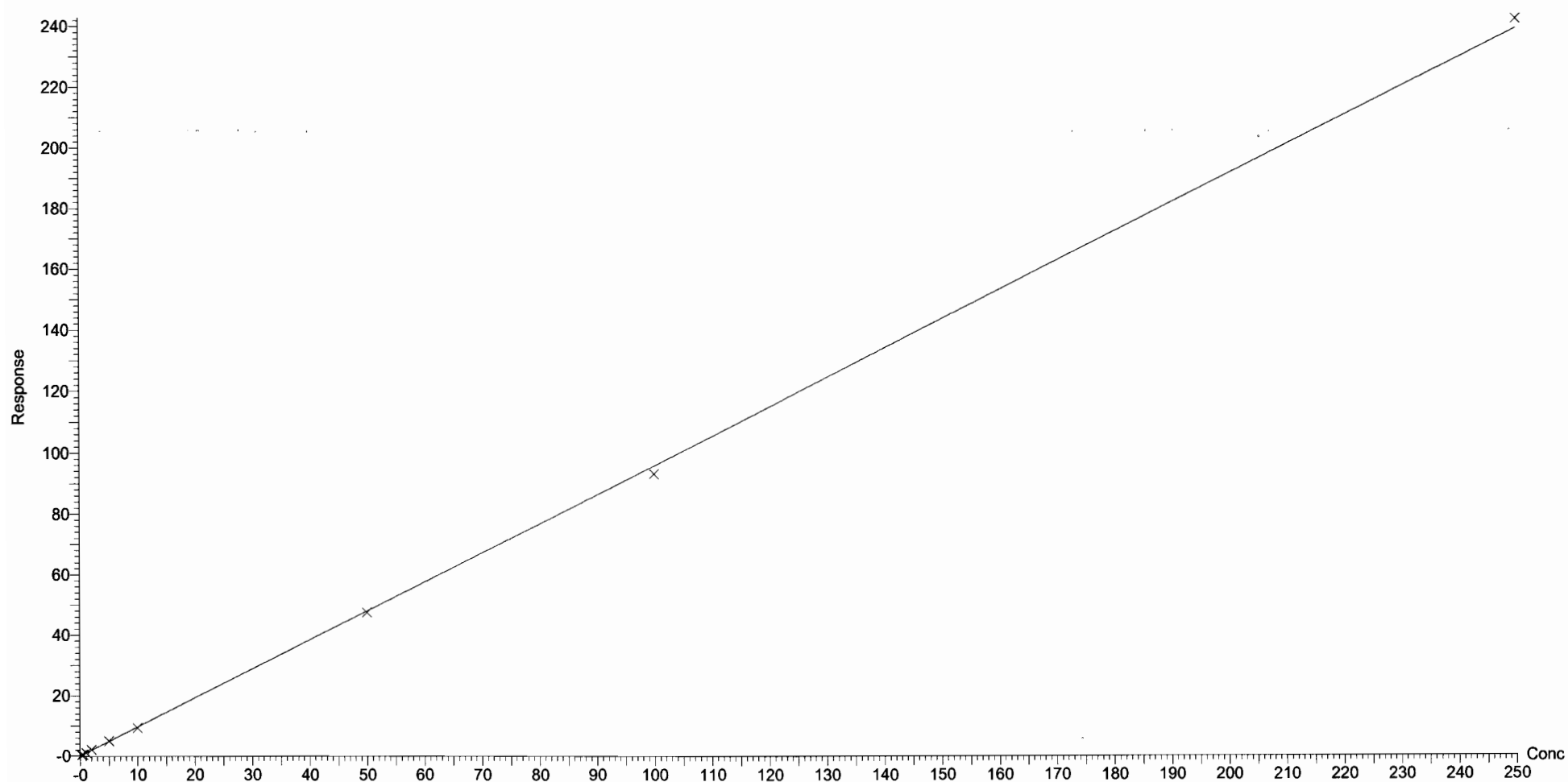
Compound name: PFPeA

Correlation coefficient: $r = 0.999801$, $r^2 = 0.999602$

Calibration curve: $0.958373 * x + 0.0576289$

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

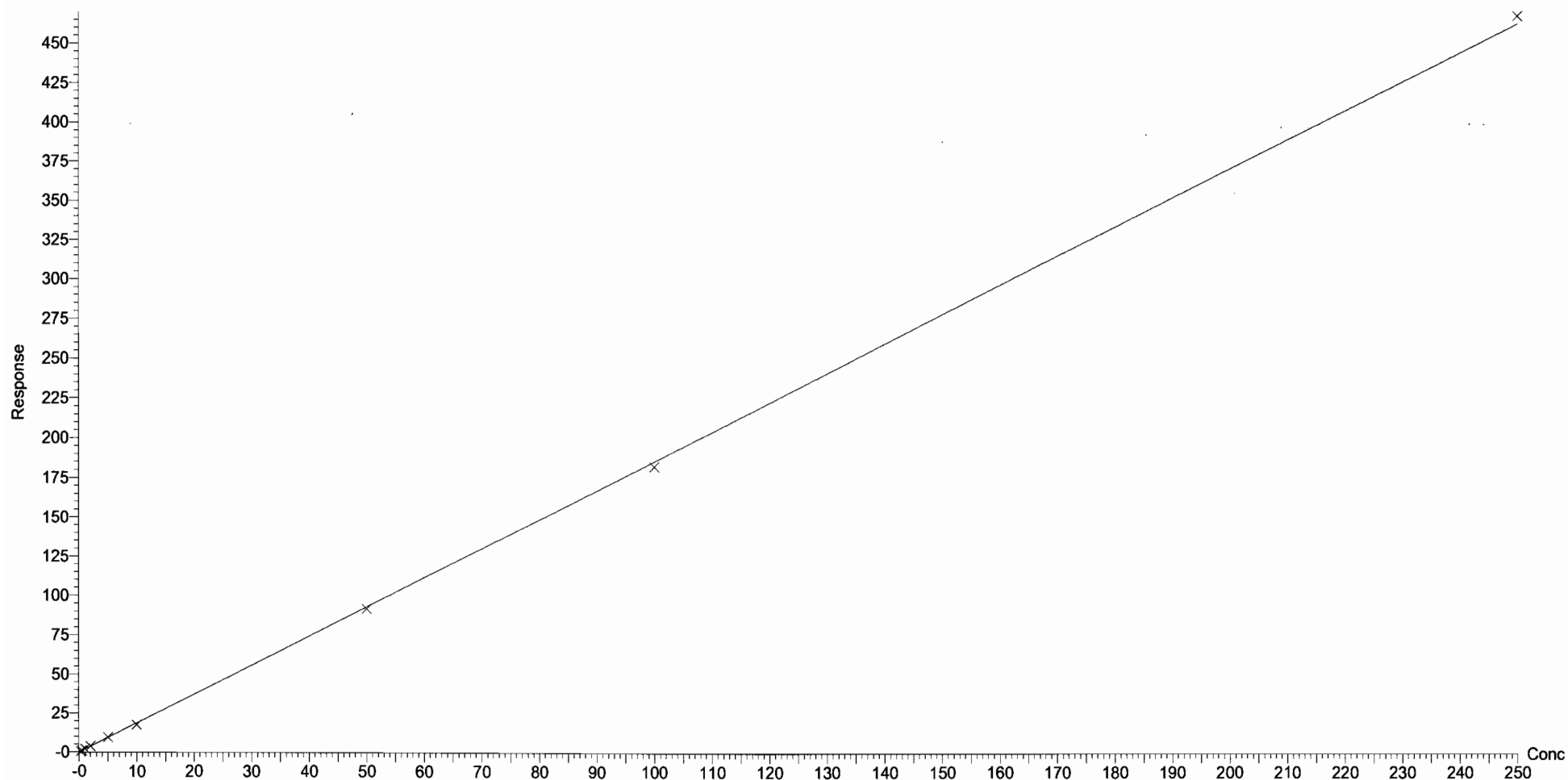
Compound name: PFBS

Correlation coefficient: $r = 0.999861$, $r^2 = 0.999721$

Calibration curve: $1.85784 * x + -0.00404936$

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

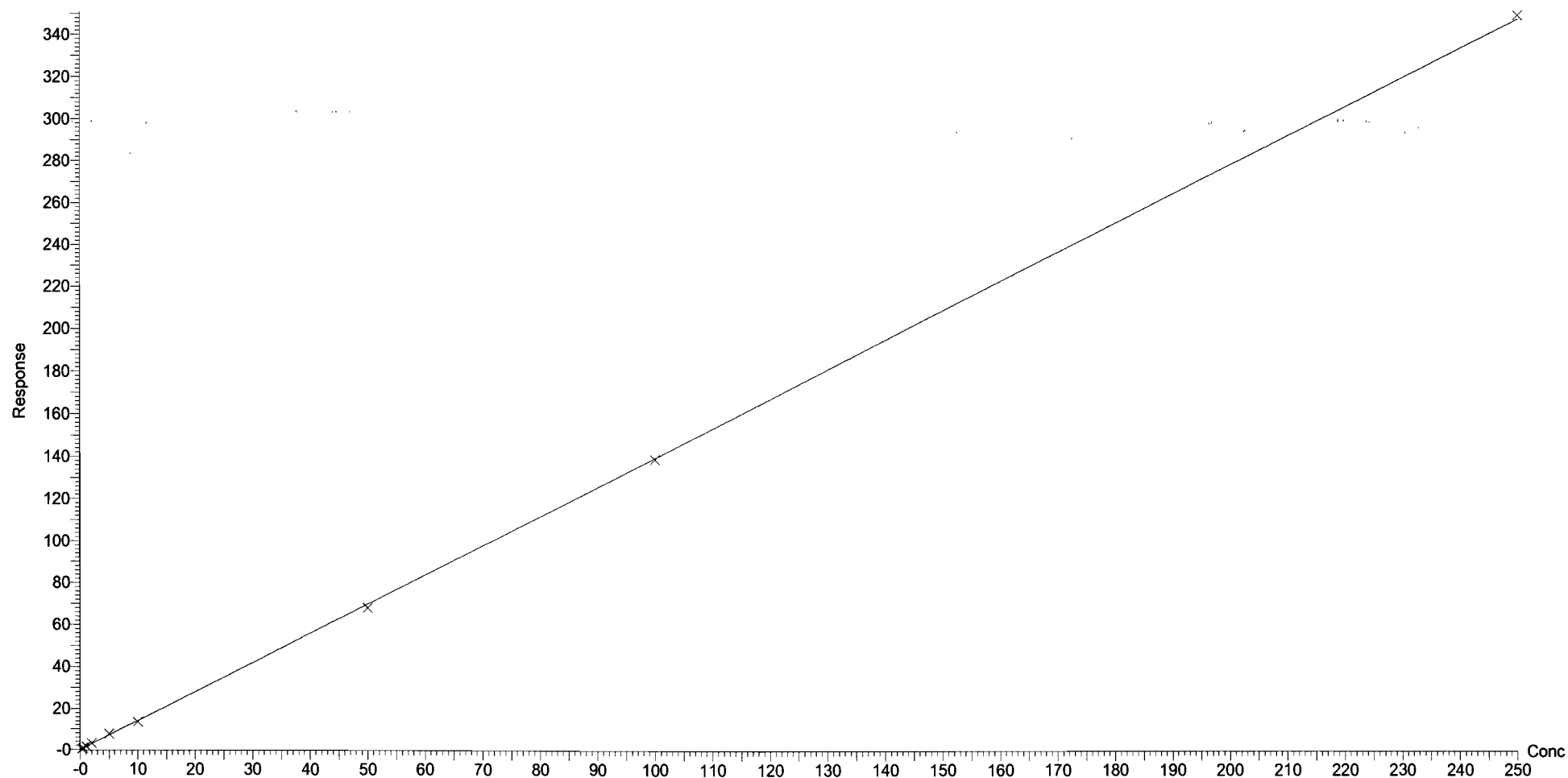
Compound name: PFHxA

Correlation coefficient: $r = 0.999860$, $r^2 = 0.999719$

Calibration curve: $1.39516 * x + 0.138496$

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

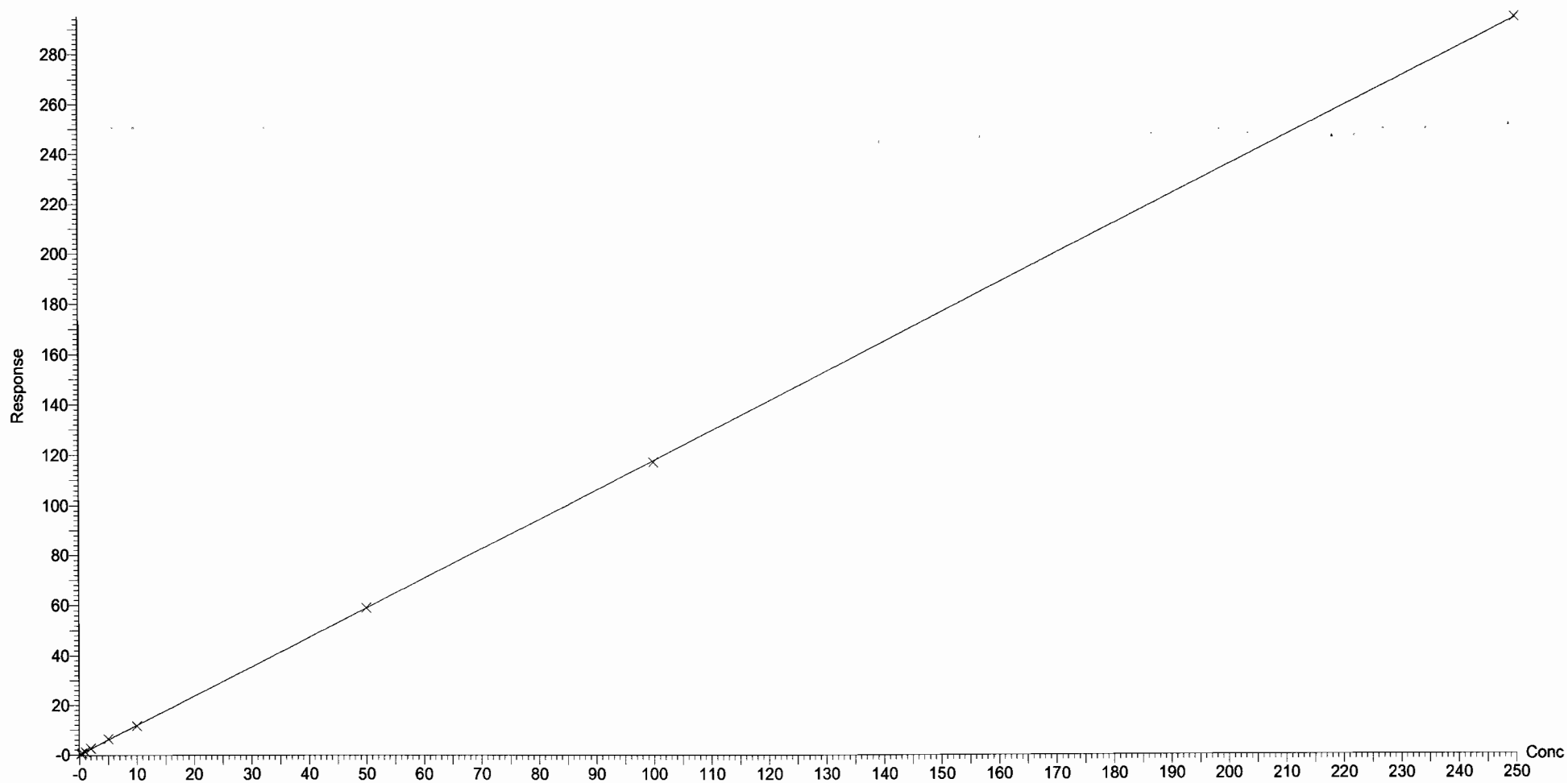
Compound name: PFHpA

Correlation coefficient: $r = 0.999957$, $r^2 = 0.999914$

Calibration curve: $1.17847 * x + 0.0681471$

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

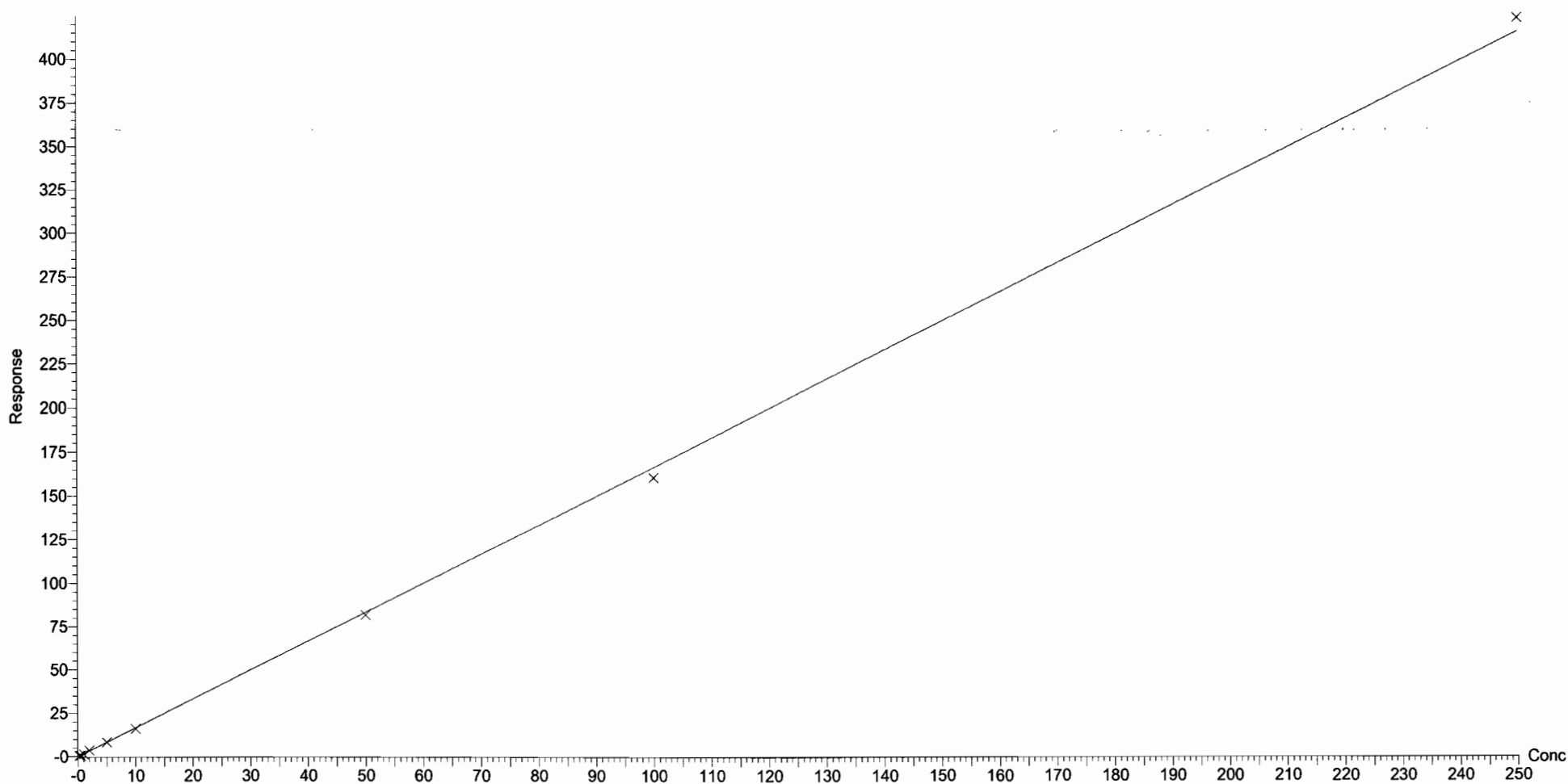
Compound name: PFHxS

Correlation coefficient: $r = 0.999604$, $r^2 = 0.999209$

Calibration curve: $1.66642 * x + 0.0527668$

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

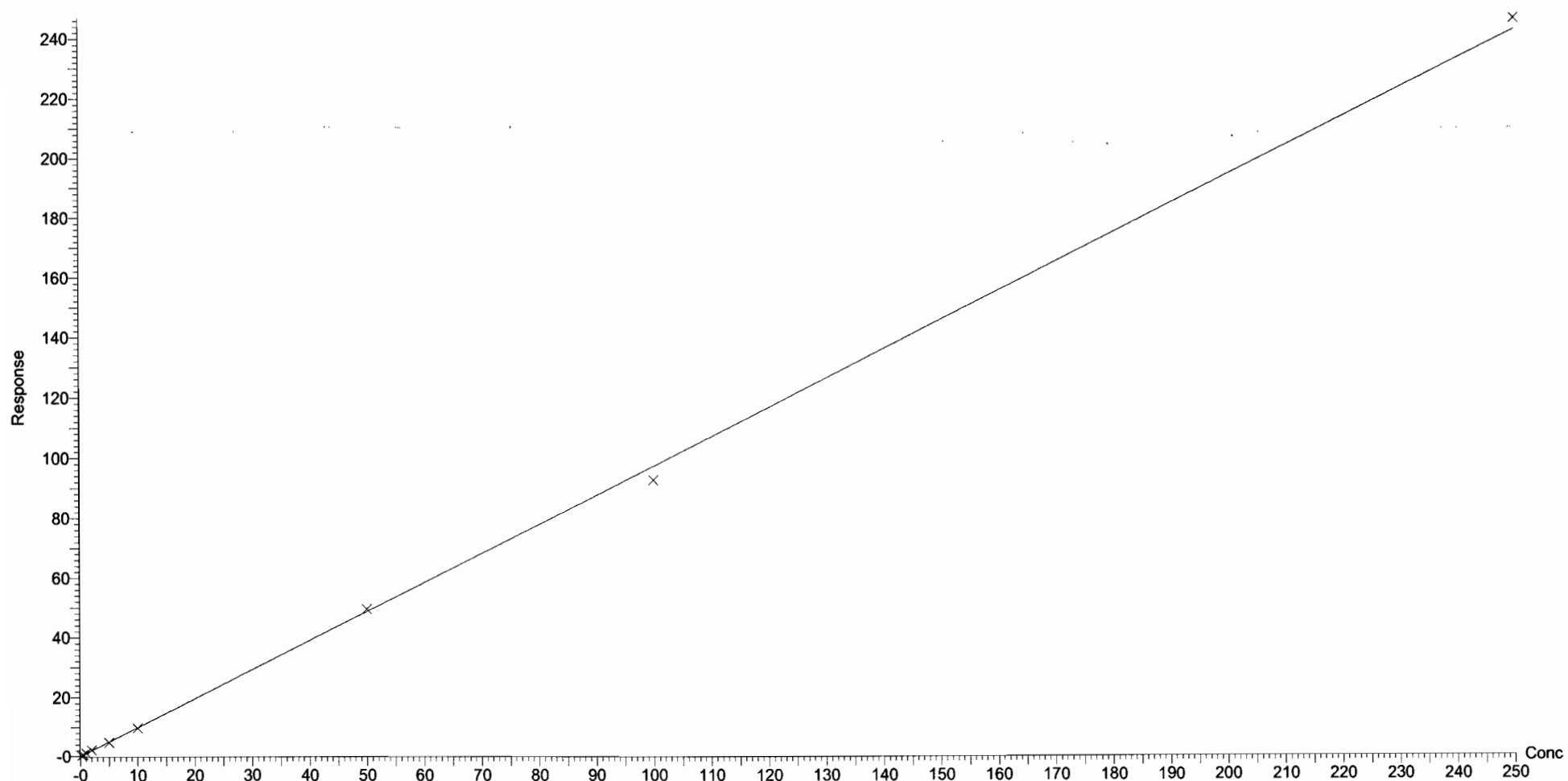
Compound name: PFOA

Correlation coefficient: $r = 0.999602$, $r^2 = 0.999203$

Calibration curve: $0.972567 * x + 0.119743$

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

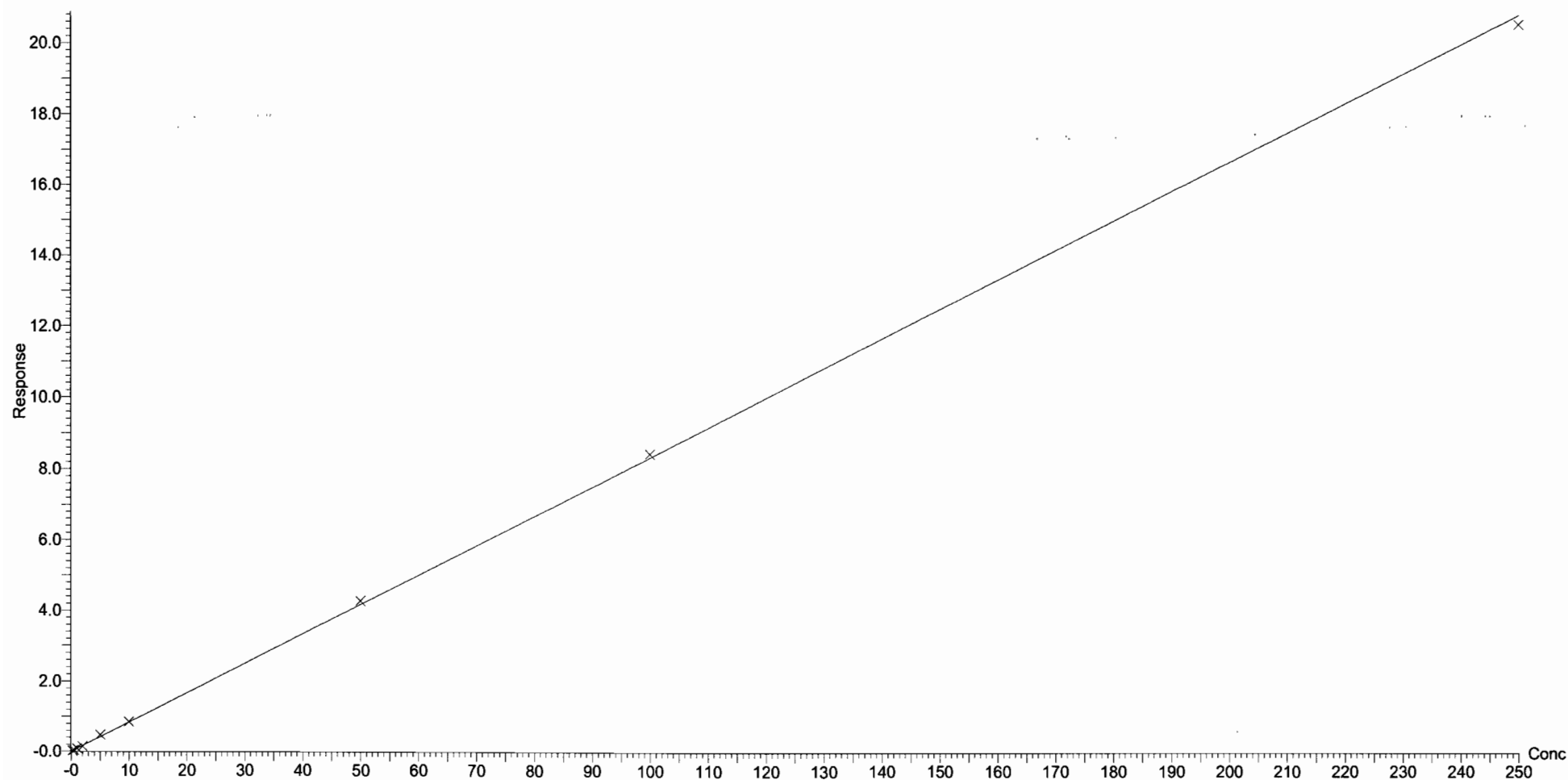
Compound name: PFHpS

Correlation coefficient: $r = 0.999698$, $r^2 = 0.999396$

Calibration curve: $0.0834866 * x + 0.000361382$

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

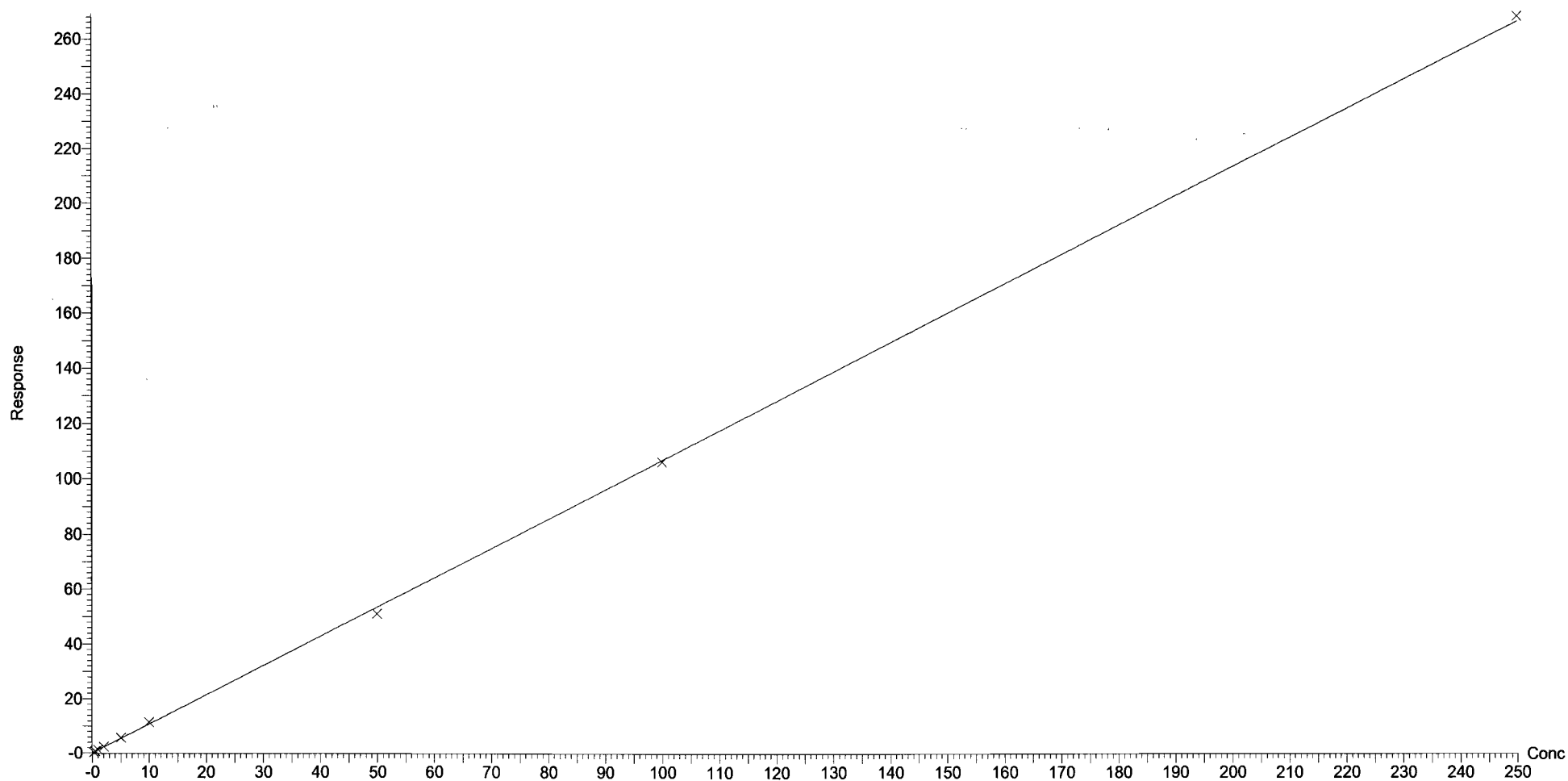
Compound name: PFNA

Correlation coefficient: $r = 0.999774$, $r^2 = 0.999549$

Calibration curve: $1.0688 * x + 0.0838738$

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

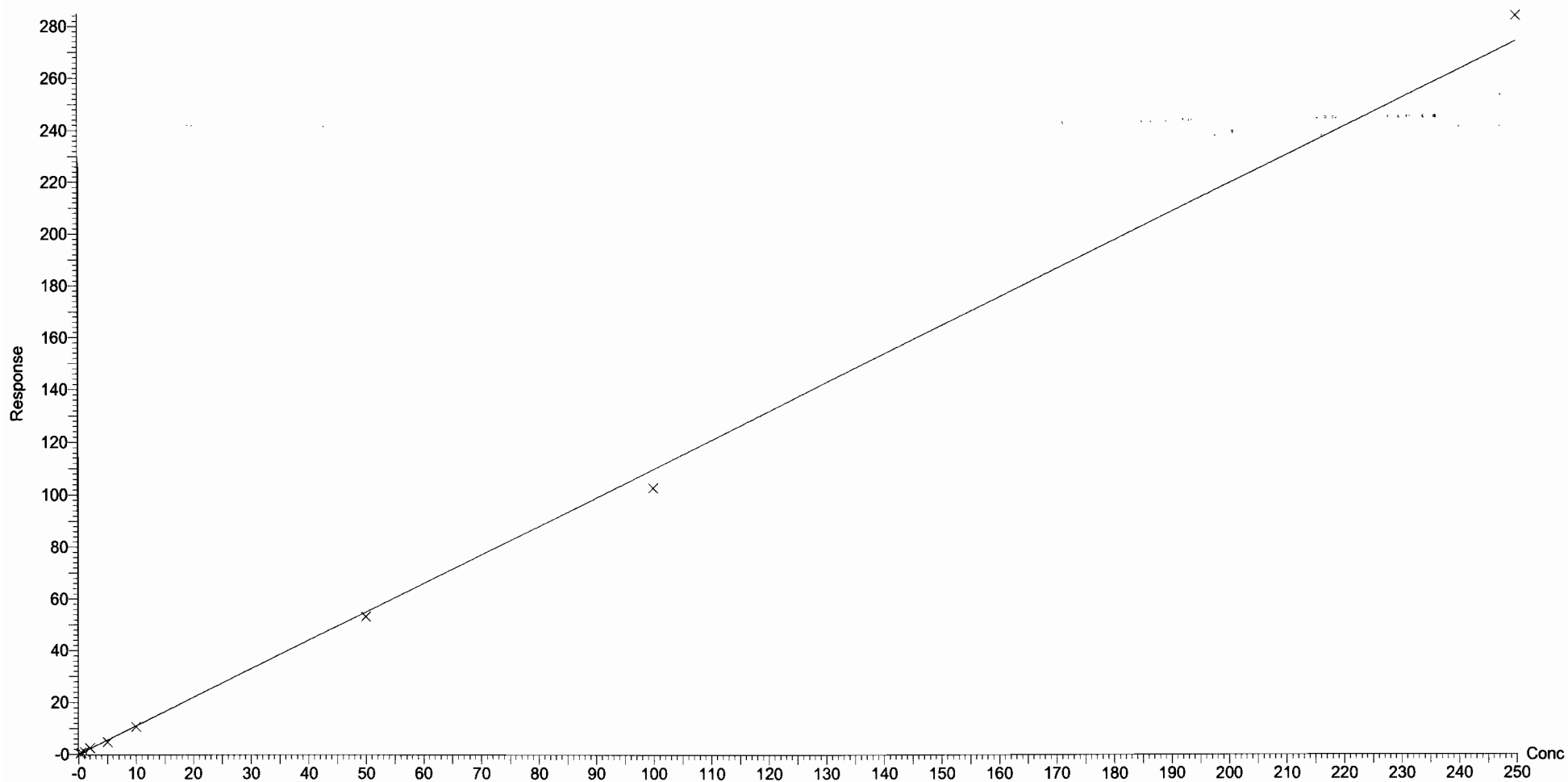
Compound name: PFOSA

Correlation coefficient: $r = 0.998852$, $r^2 = 0.997705$

Calibration curve: $1.09922 * x + 0.0380461$

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

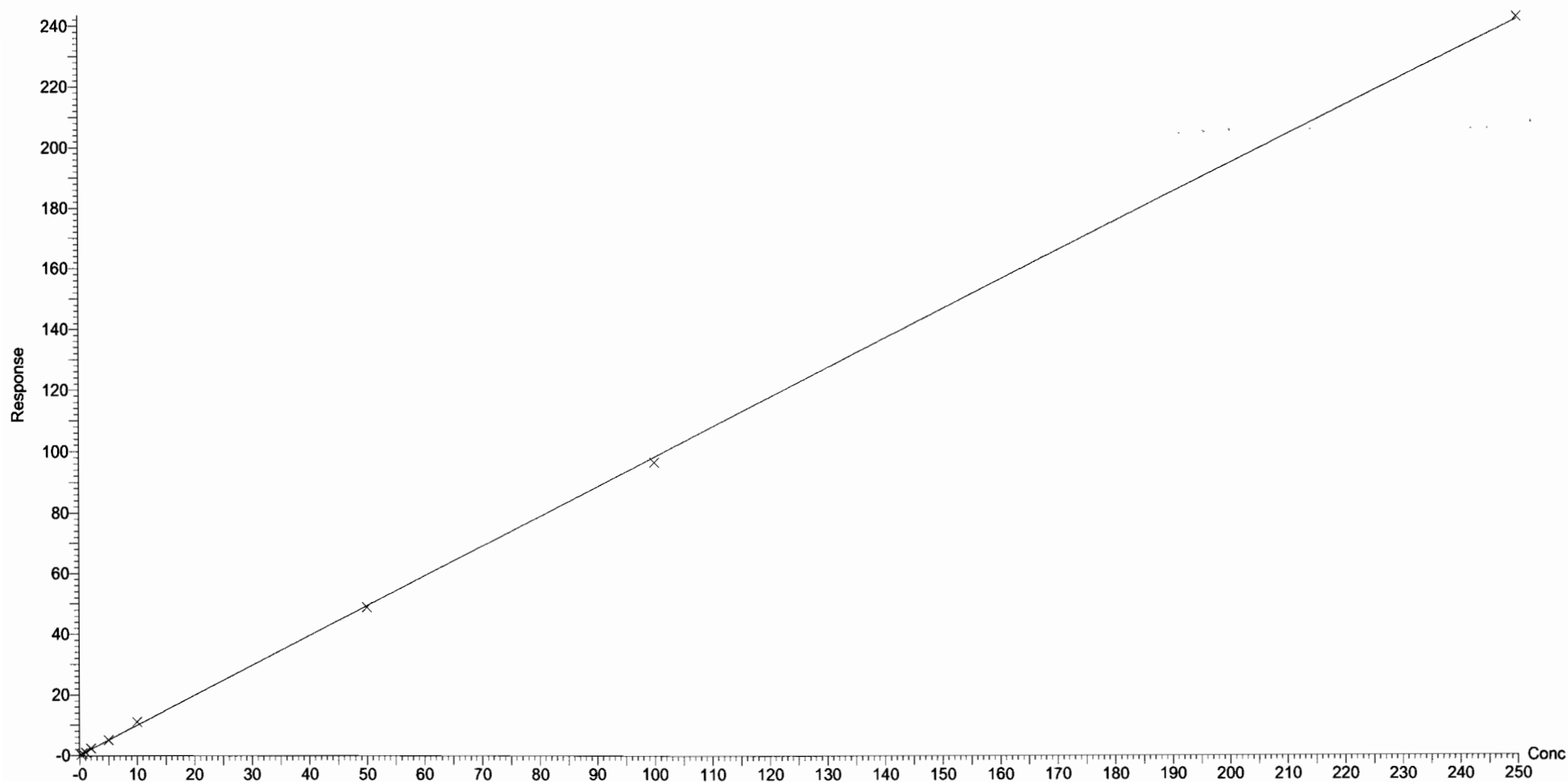
Compound name: PFOS

Coefficient of Determination: $R^2 = 0.999381$

Calibration curve: $-8.2411e-005 * x^2 + 0.991329 * x + 0.038537$

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

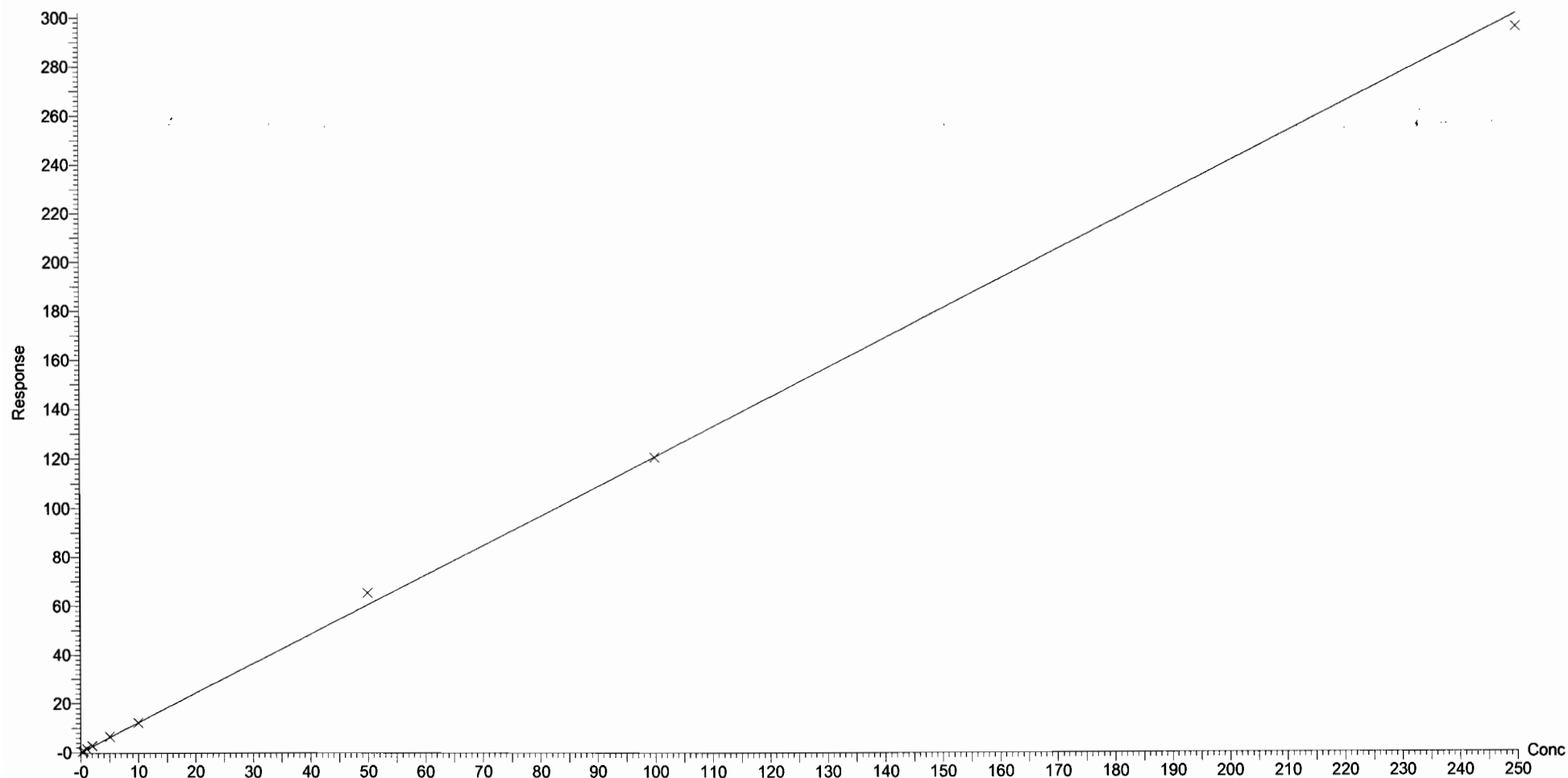
Compound name: PFDA

Correlation coefficient: $r = 0.999404$, $r^2 = 0.998807$

Calibration curve: $1.20688 * x + 0.163006$

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

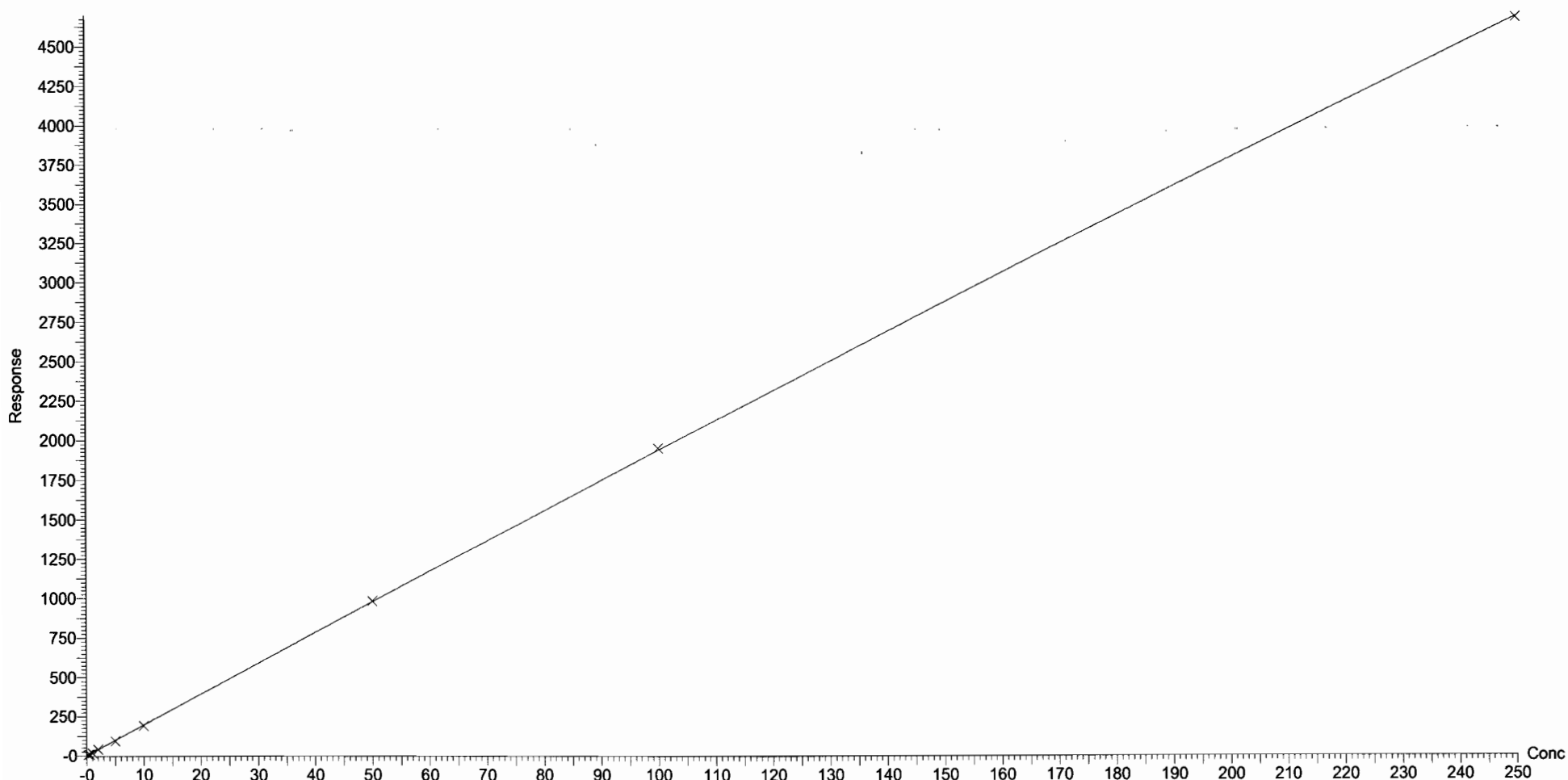
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999878$

Calibration curve: $-0.00407341 * x^2 + 19.807 * x + -0.260375$

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

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

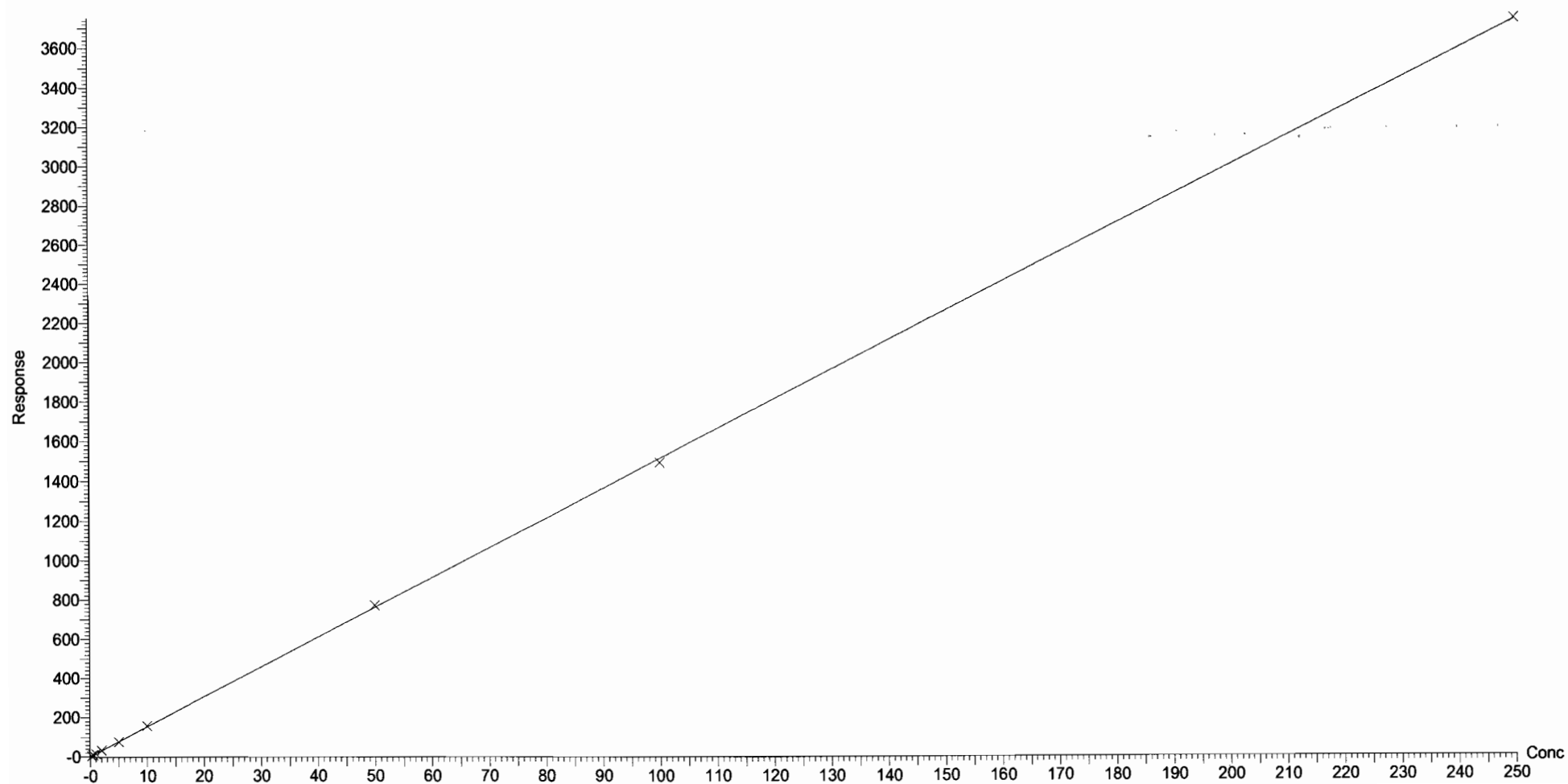
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999787$

Calibration curve: $-0.00107779 * x^2 + 15.2465 * x + 0.807358$

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

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

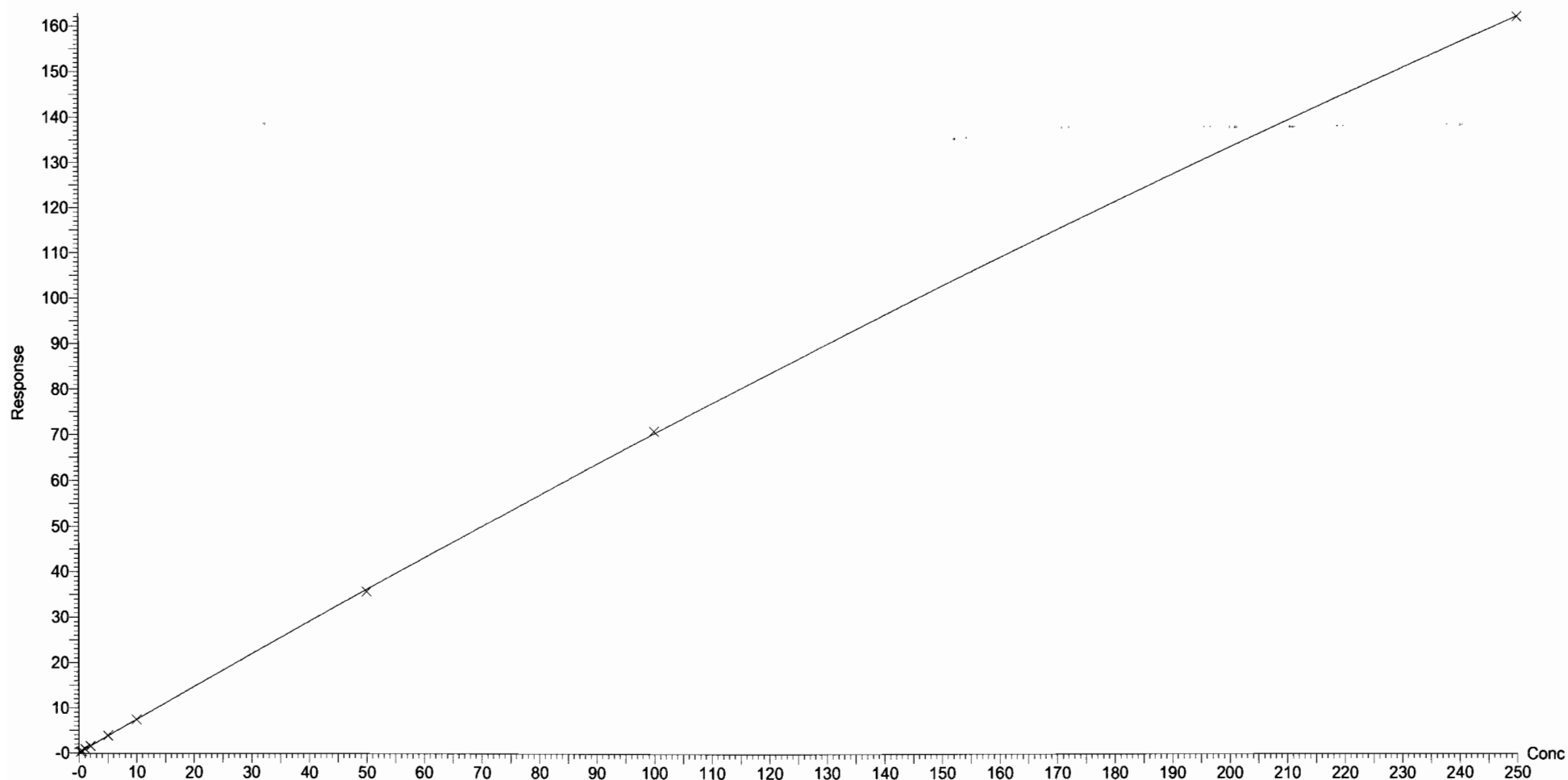
Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.999945$

Calibration curve: $-0.000352587 * x^2 + 0.738655 * x + 0.0923596$

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

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

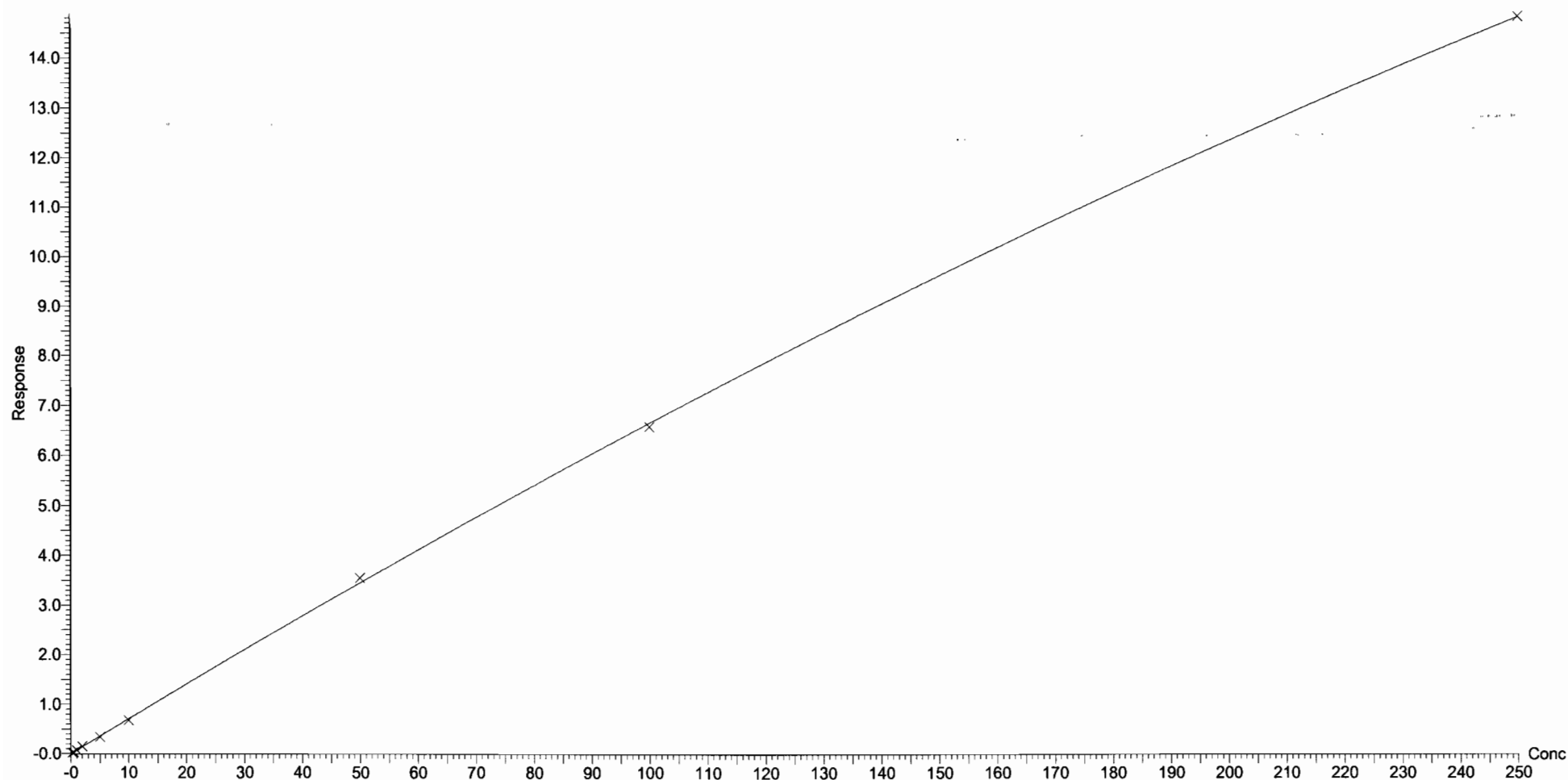
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.999598$

Calibration curve: $-4.79281e-005 * x^2 + 0.0714733 * x + -0.00107069$

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

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

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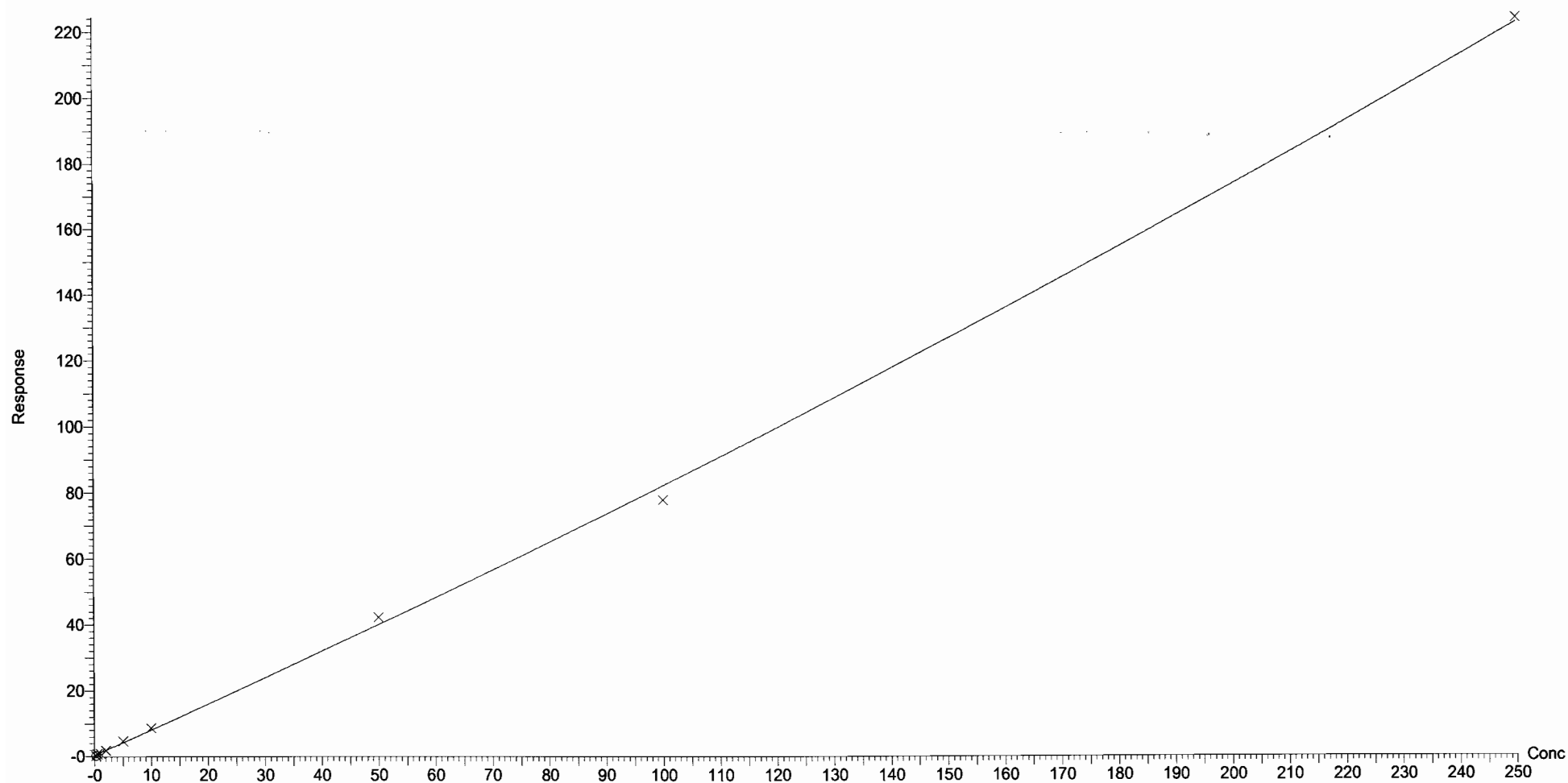
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.998624$

Calibration curve: $0.000483062 * x^2 + 0.770384 * x + 0.341437$

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

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:06:31 Pacific Daylight Time

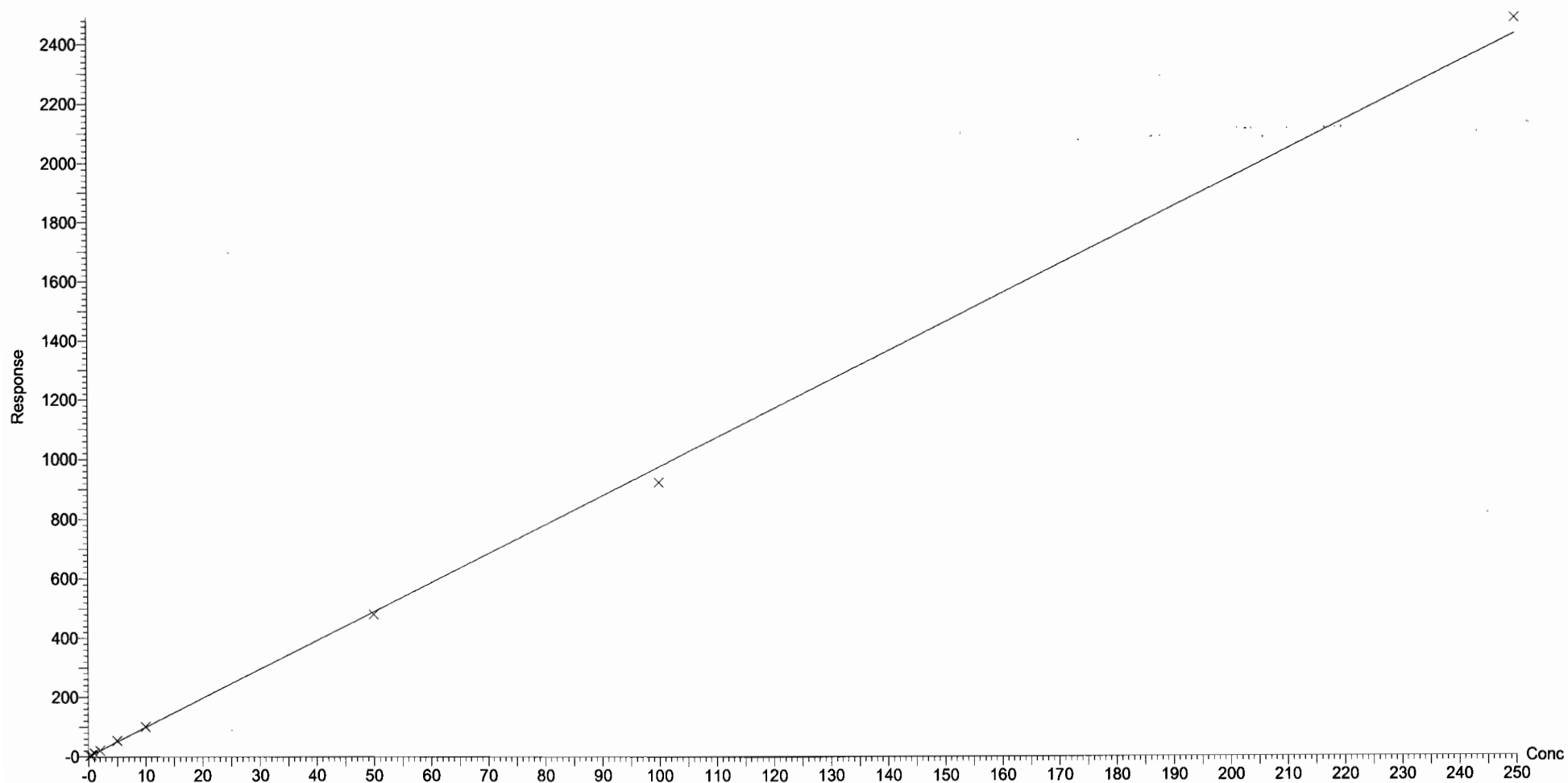
Compound name: PFT_rDA

Correlation coefficient: $r = 0.999451$, $r^2 = 0.998903$

Calibration curve: $9.7472 * x + 1.17215$

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\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

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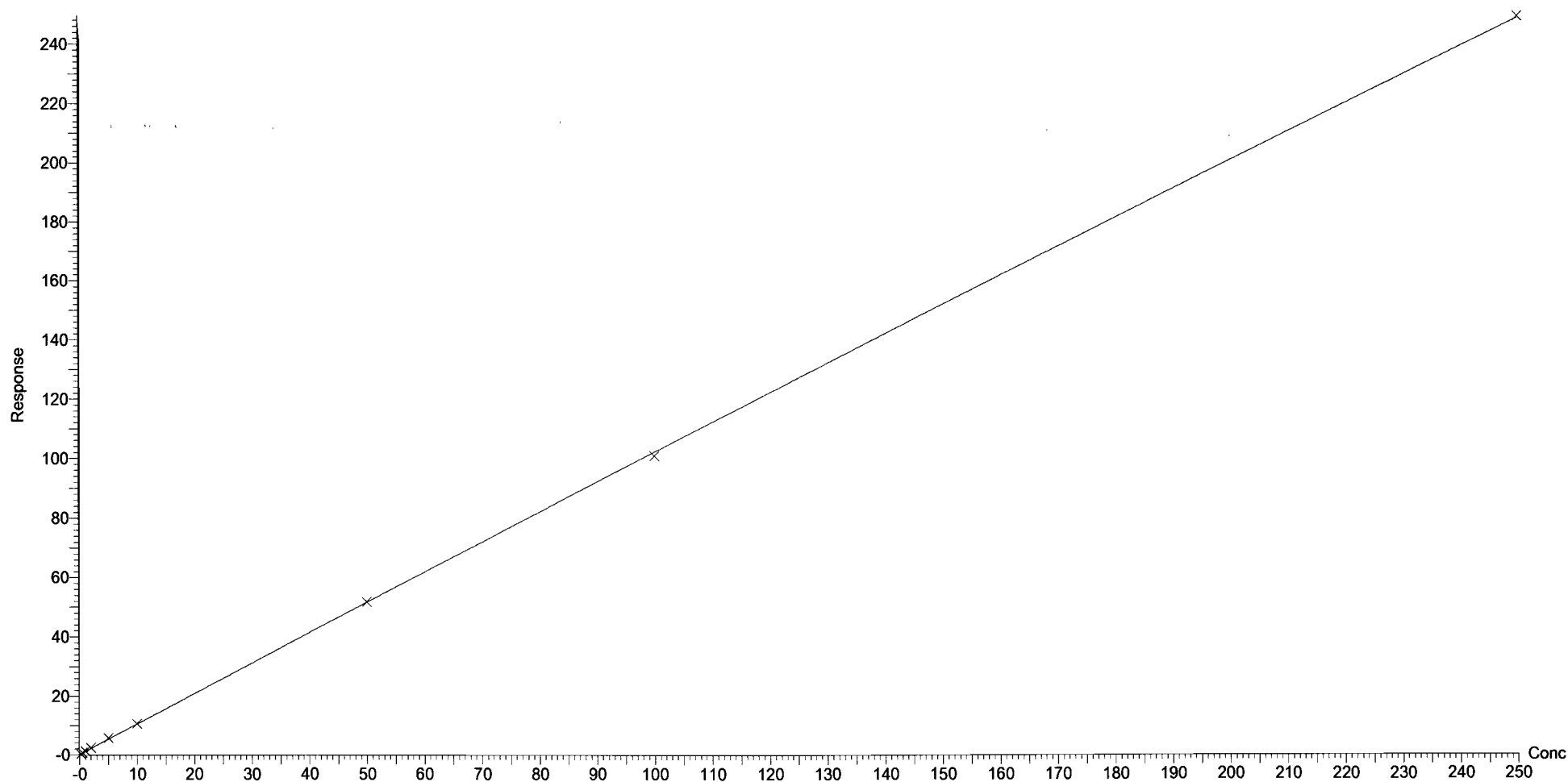
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999741$

Calibration curve: $-0.000171677 * x^2 + 1.03861 * x + 0.13428$

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

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



Dataset: U:\Q4.PRO\results\170728M2\170728M2-CRV.qld

Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

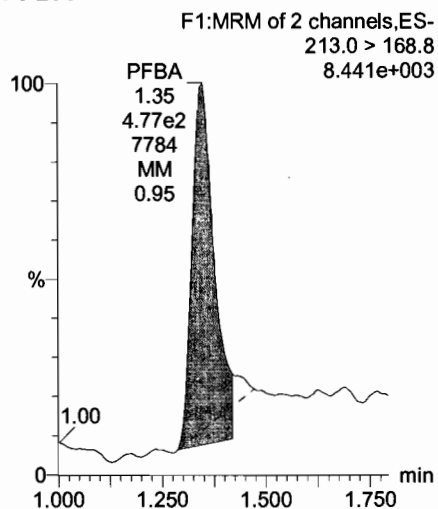
Printed: Sunday, July 30, 2017 08:05:49 Pacific Daylight Time

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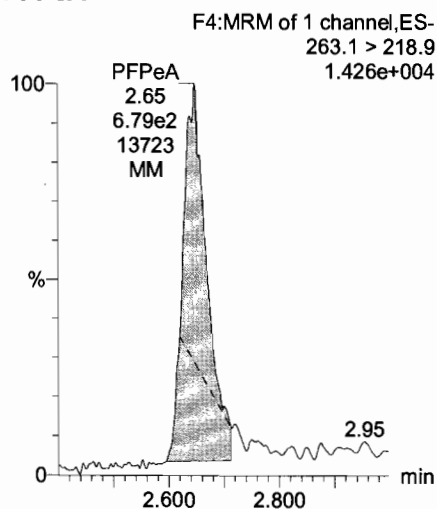
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Name: 170728M2_2, Date: 28-Jul-2017, Time: 16:20:47, ID: ST170728M2-1 PFC CS-2 17G2824, Description: PFC CS-2 17G2824

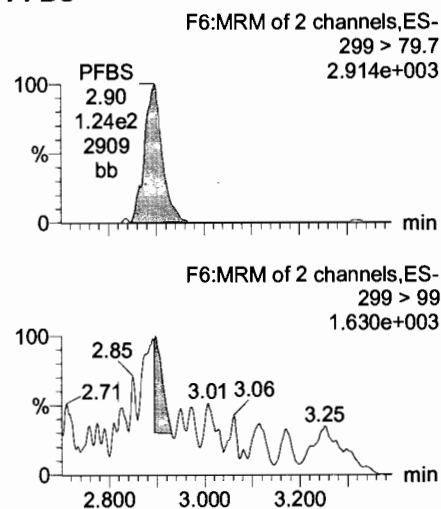
PFBA



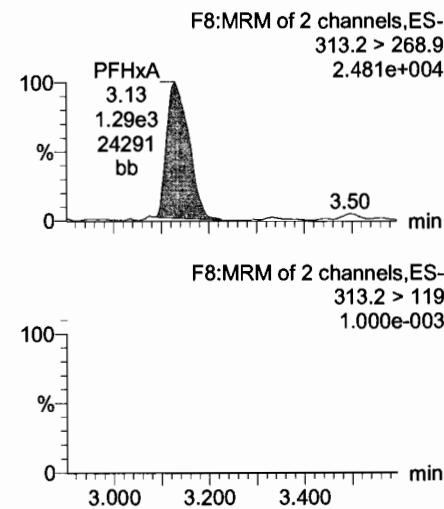
PFPeA



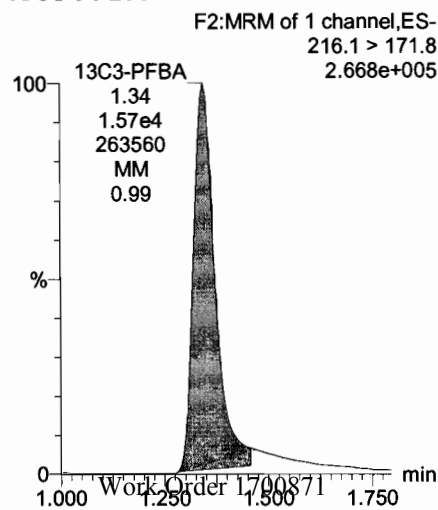
PFBS



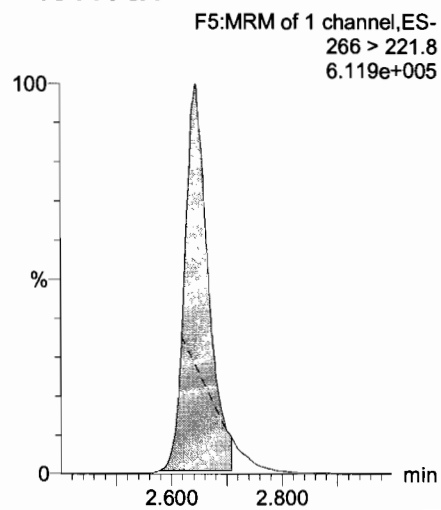
PFHxA



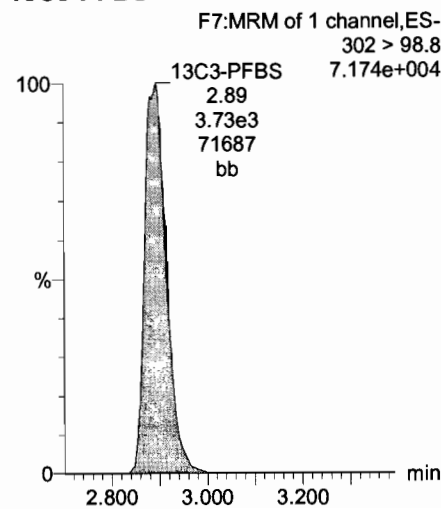
13C3-PFBA



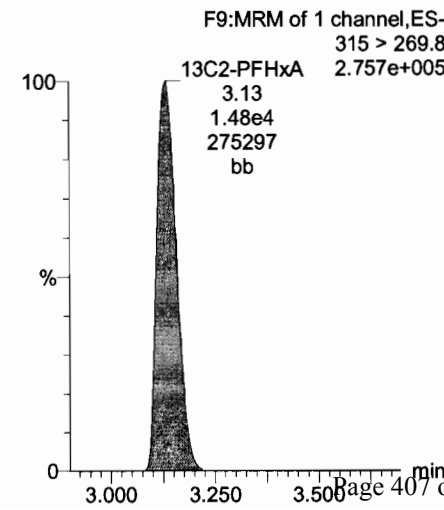
13C3-PFPeA



13C3-PFBS



13C2-PFHxA

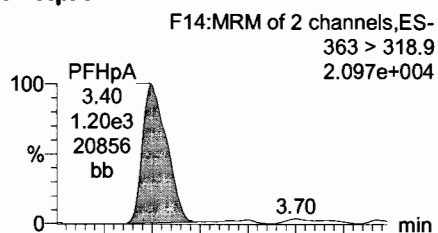


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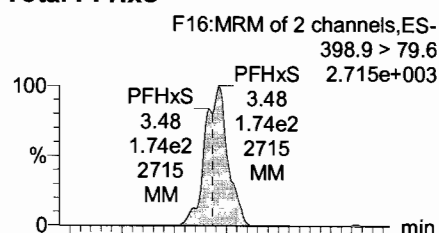
Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time
Printed: Sunday, July 30, 2017 08:05:49 Pacific Daylight Time

Name: 170728M2_2, Date: 28-Jul-2017, Time: 16:20:47, ID: ST170728M2-1 PFC CS-2 17G2824, Description: PFC CS-2 17G2824

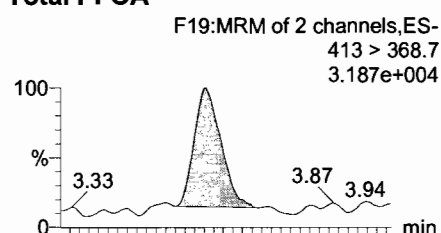
PFHpA



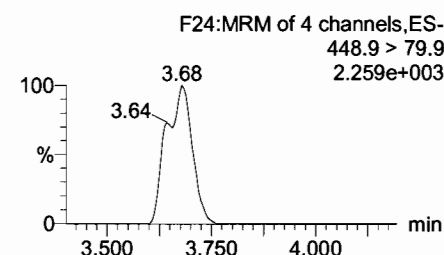
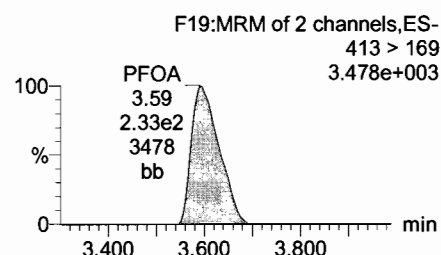
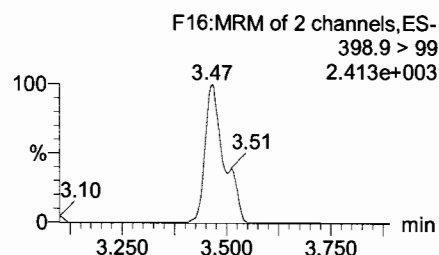
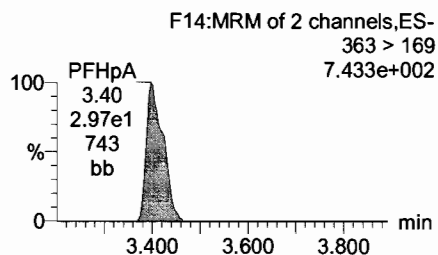
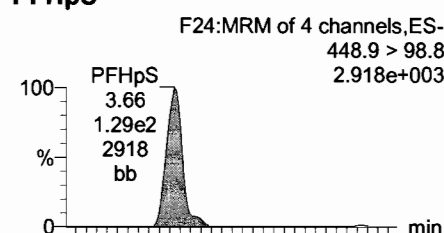
Total PFHxS



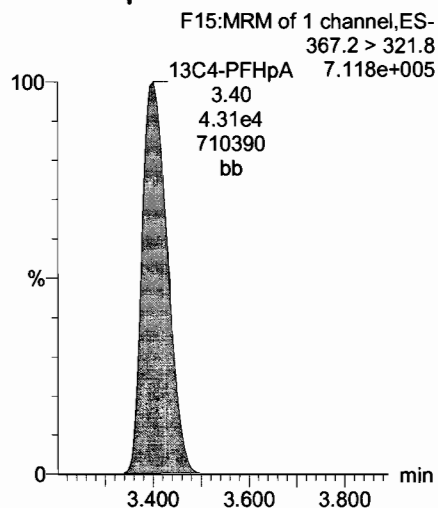
Total PFOA



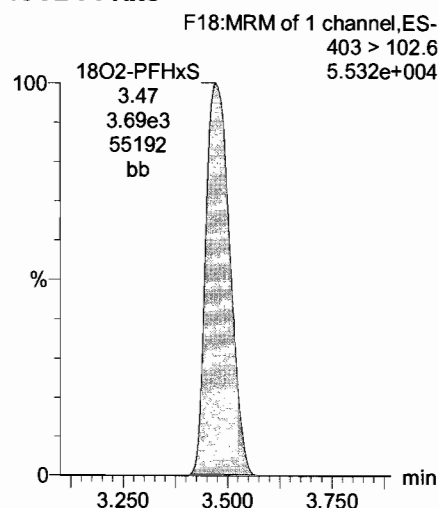
PFHpS



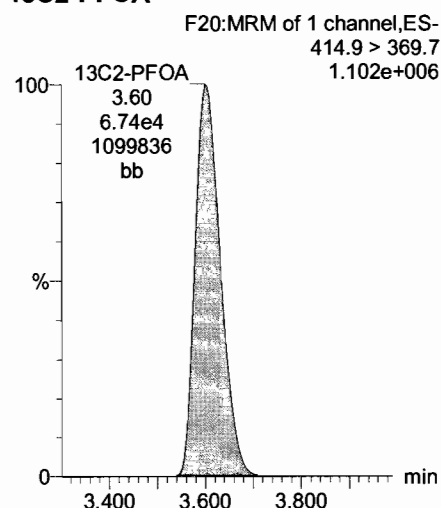
13C4-PFHpA



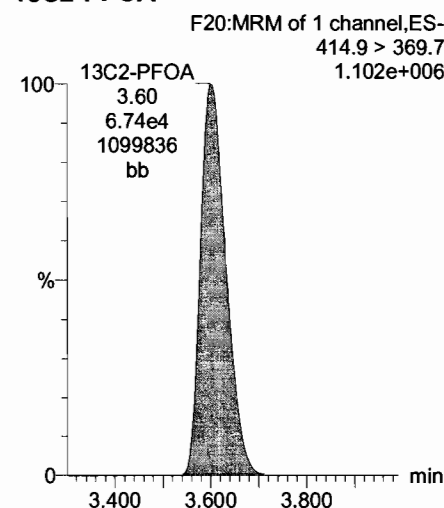
18O2-PFHxS



13C2-PFOA



13C2-PFOA



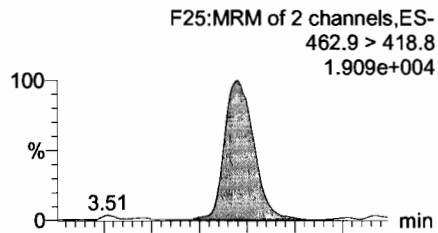
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Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

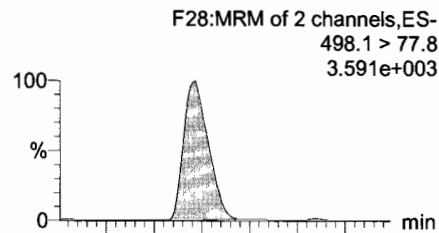
Printed: Sunday, July 30, 2017 08:05:49 Pacific Daylight Time

Name: 170728M2_2, Date: 28-Jul-2017, Time: 16:20:47, ID: ST170728M2-1 PFC CS-2 17G2824, Description: PFC CS-2 17G2824

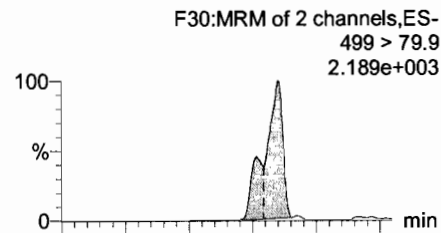
PFNA



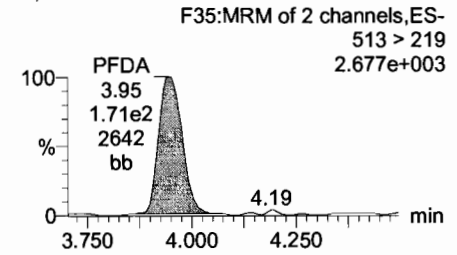
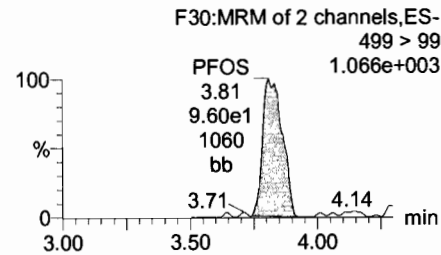
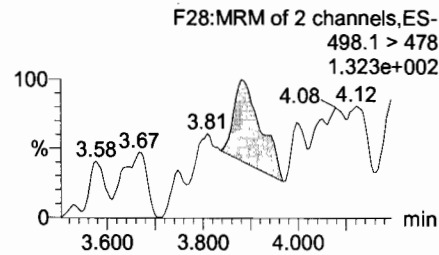
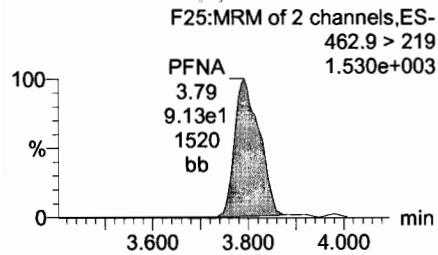
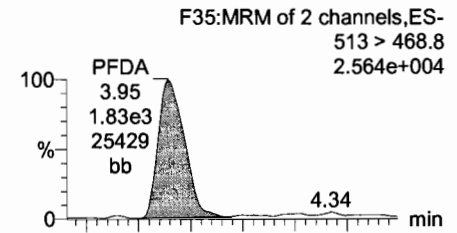
PFOSA



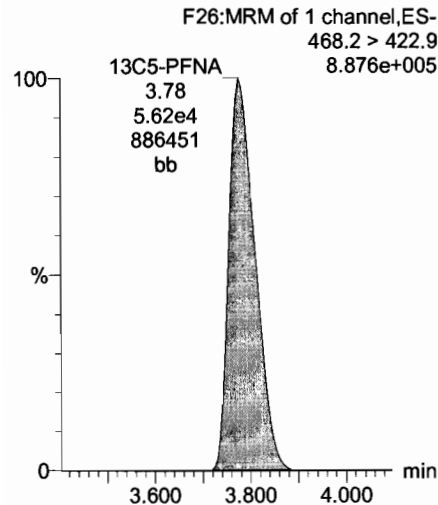
Total PFOS



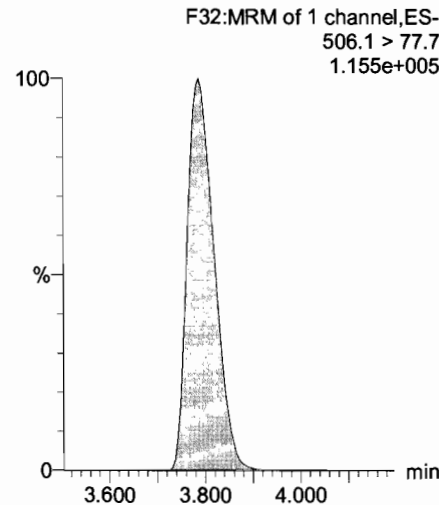
PFDA



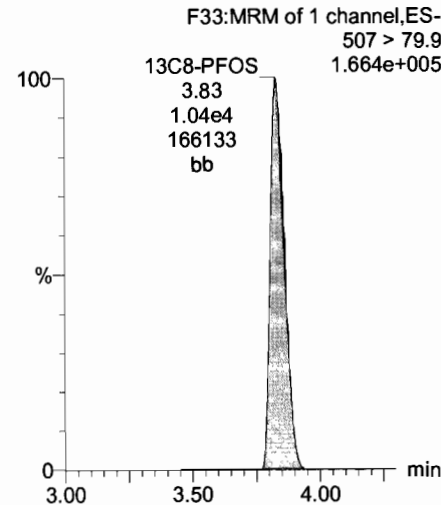
13C5-PFNA



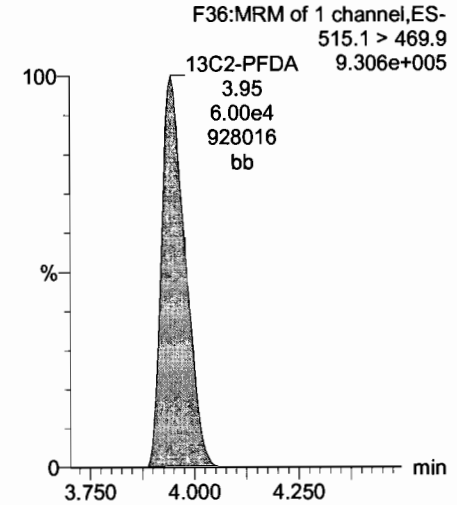
13C8-PFOSA



13C8-PFOS



13C2-PFDA



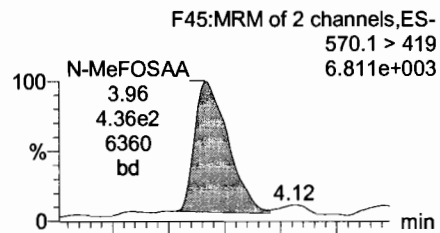
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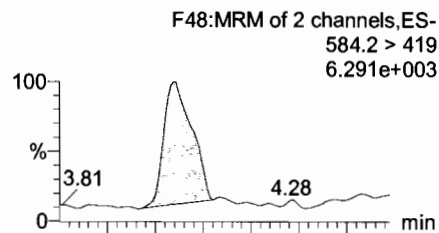
Printed: Sunday, July 30, 2017 08:05:49 Pacific Daylight Time

Name: 170728M2_2, Date: 28-Jul-2017, Time: 16:20:47, ID: ST170728M2-1 PFC CS-2 17G2824, Description: PFC CS-2 17G2824

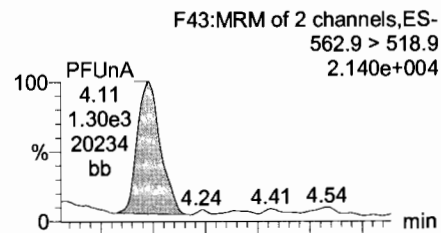
N-MeFOSAA



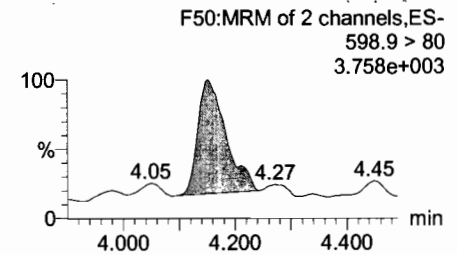
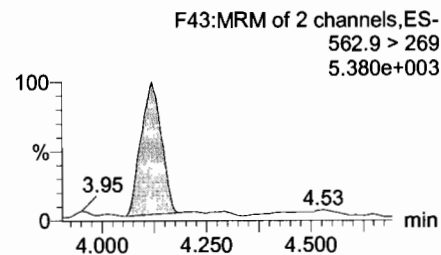
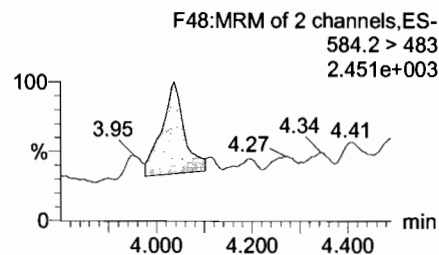
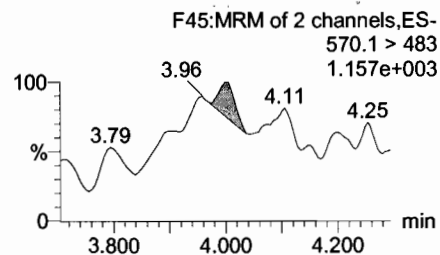
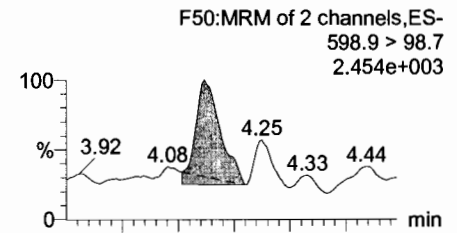
N-EtFOSAA



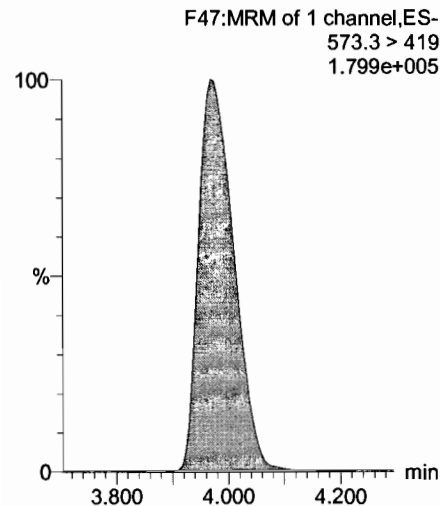
PFUnA



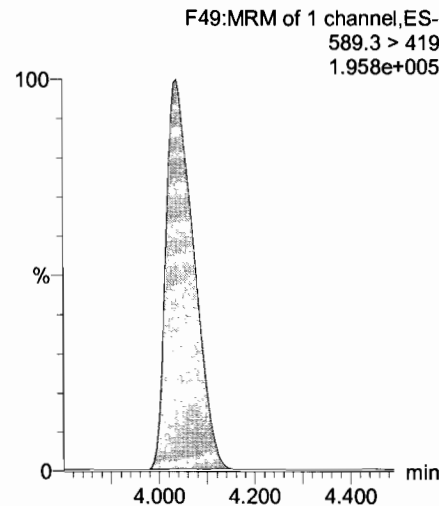
PFDS



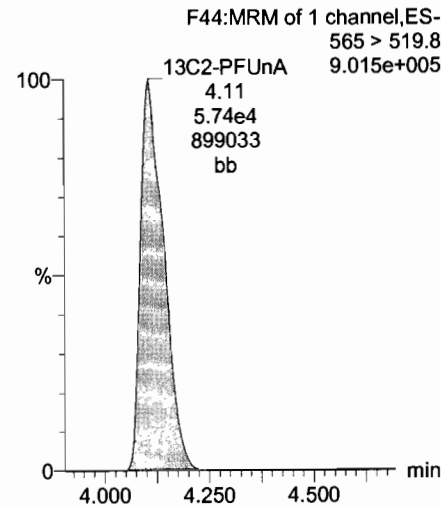
d3-N-MeFOSAA



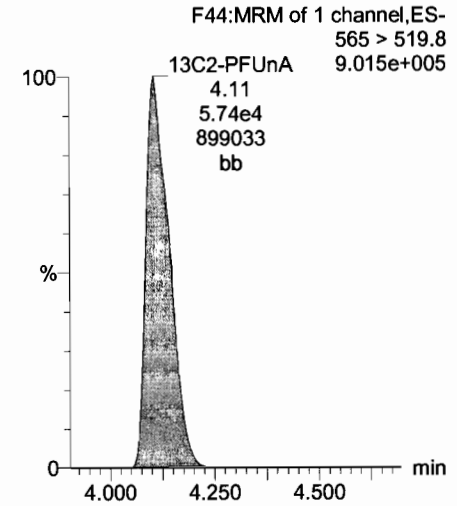
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



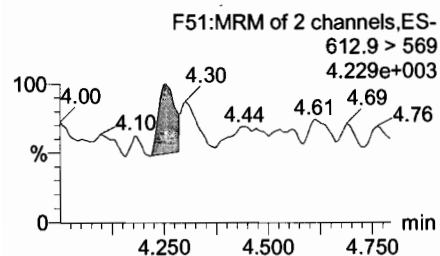
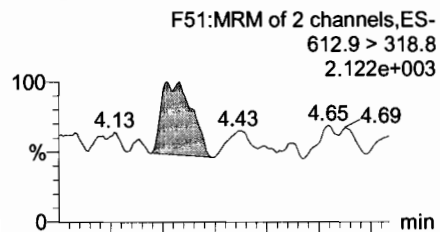
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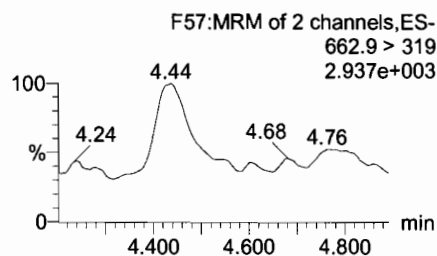
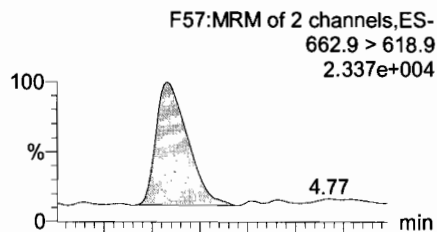
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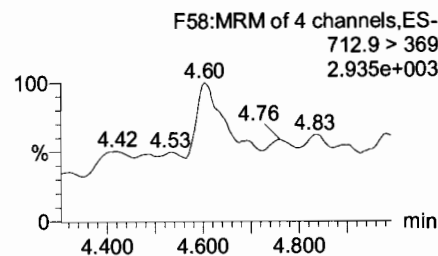
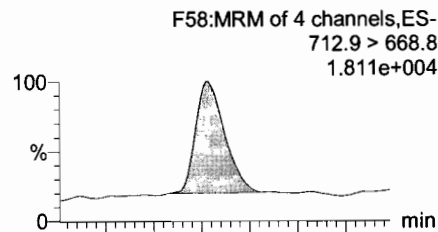
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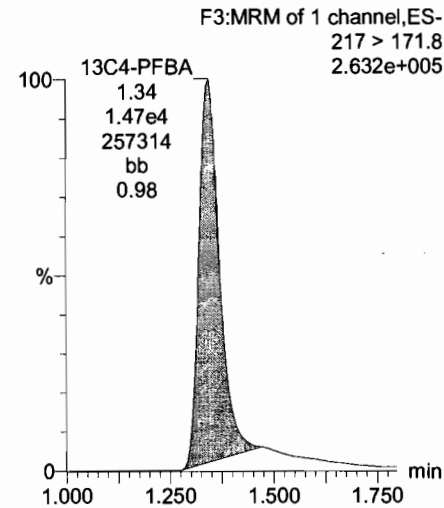
PFT_rDA



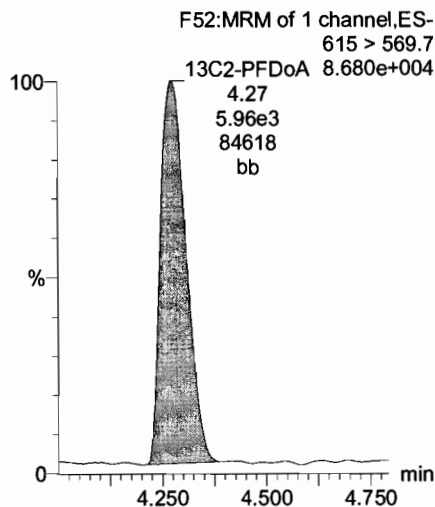
PFT_eDA



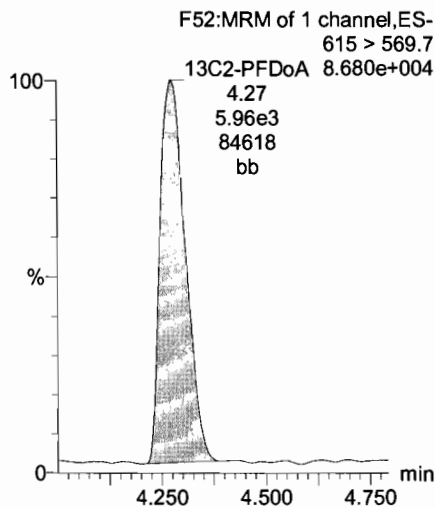
¹³C4-PFBA



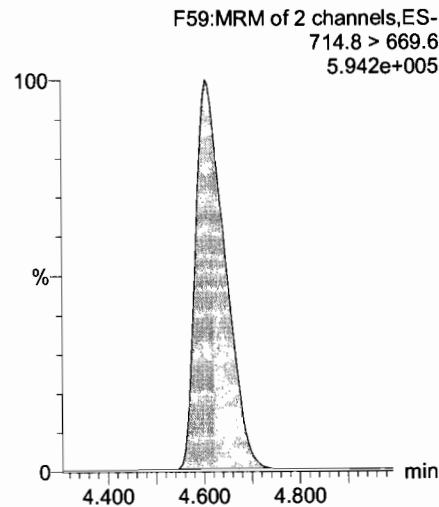
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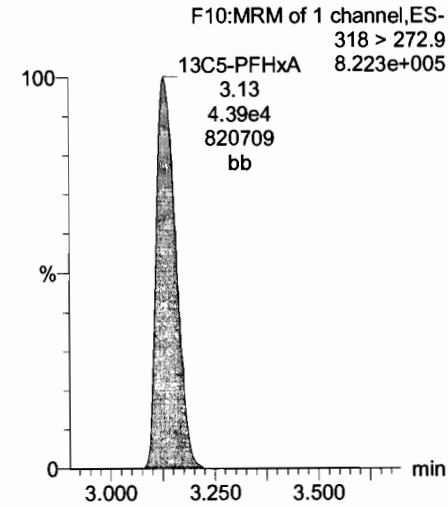
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¹³C2-PFT_eDA



¹³C5-PFHxA



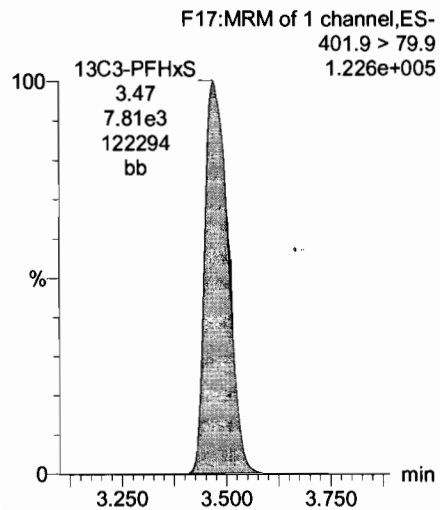
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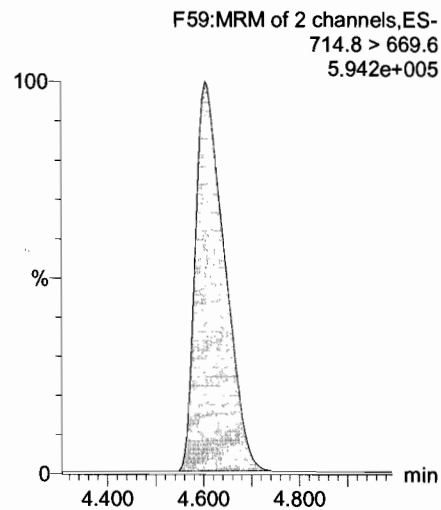
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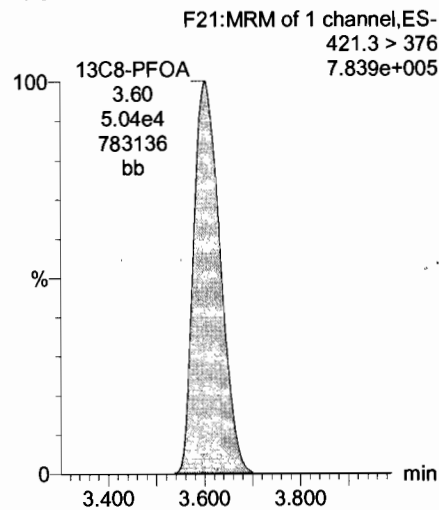
13C3-PFHxS



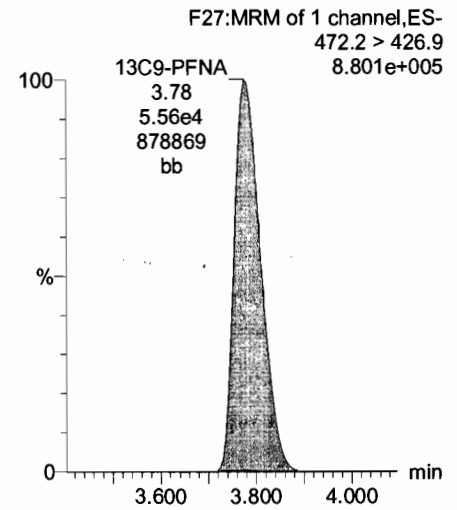
13C2-PFTeDA



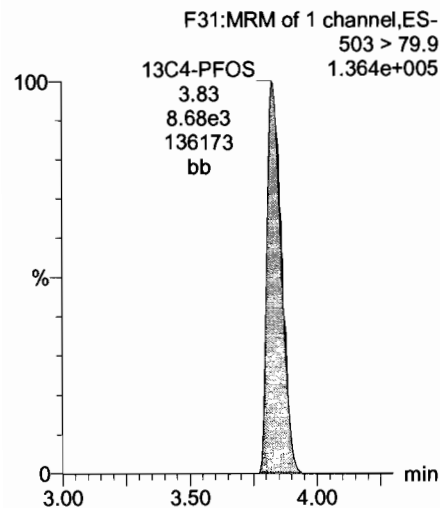
13C8-PFOA



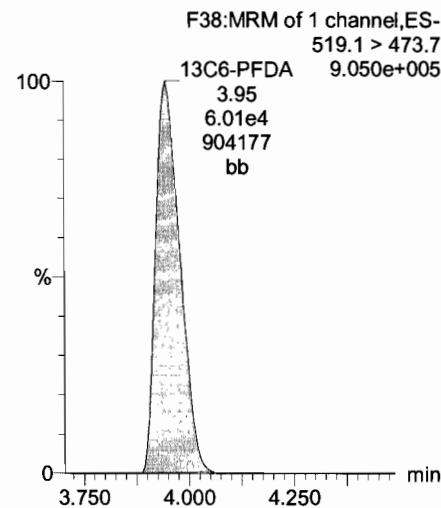
13C9-PFNA



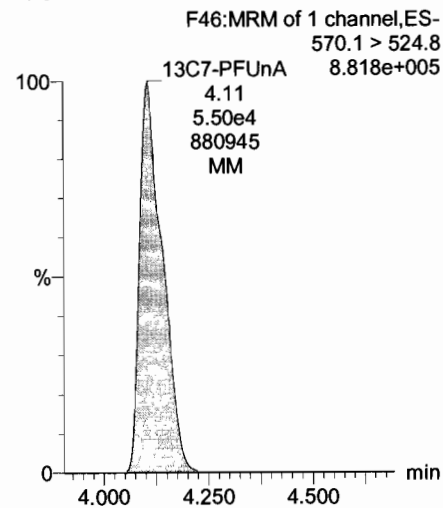
13C4-PFOS



13C6-PFDA



13C7-PFUnA



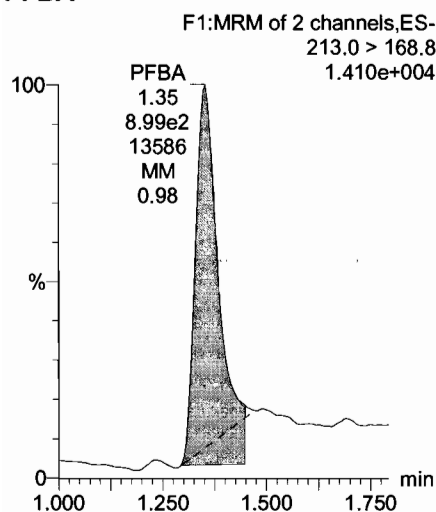
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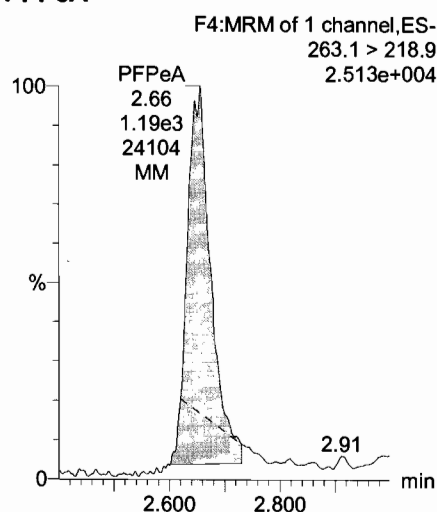
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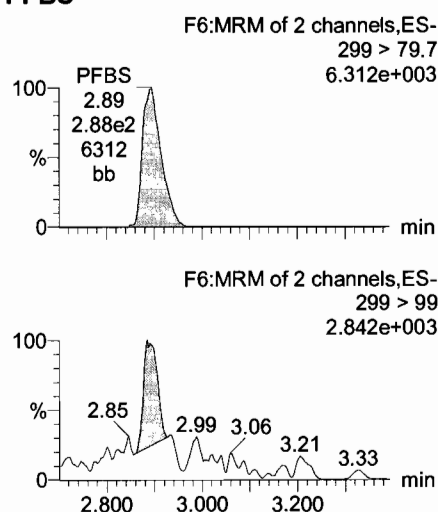
PFBA



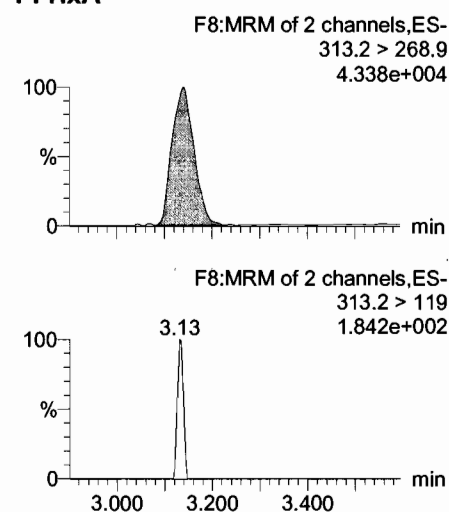
PFPeA



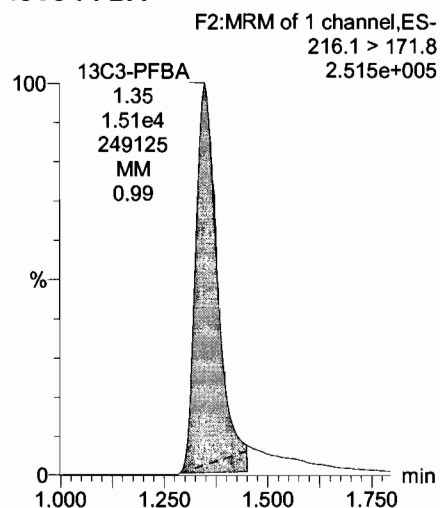
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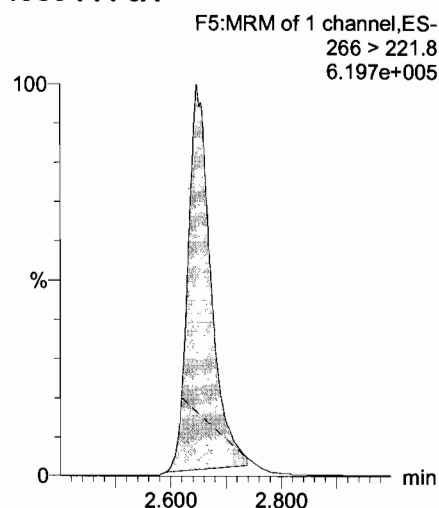
PFHxA



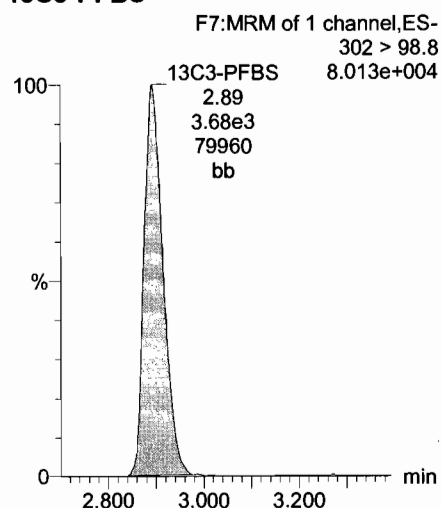
13C3-PFBA



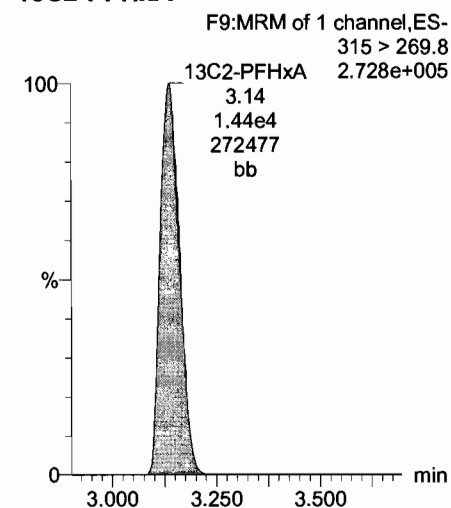
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



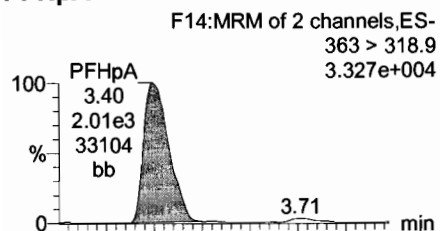
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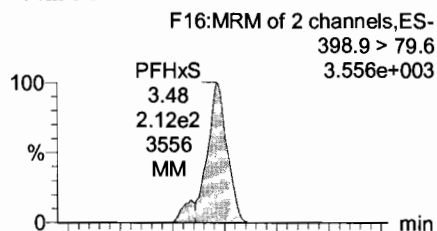
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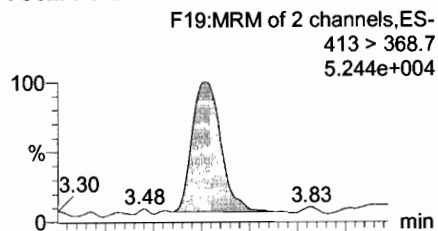
PFHpA



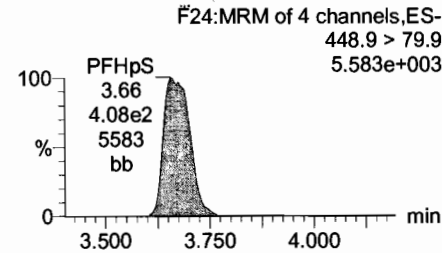
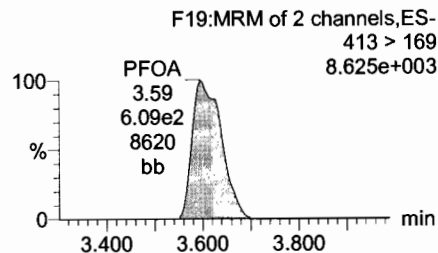
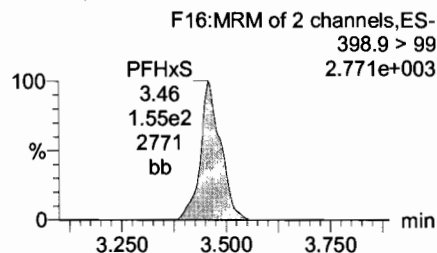
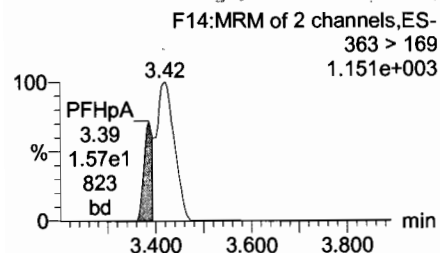
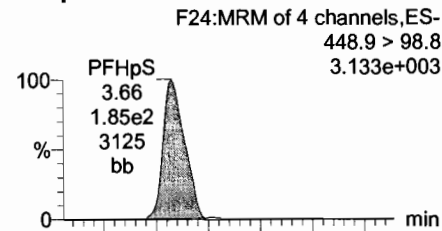
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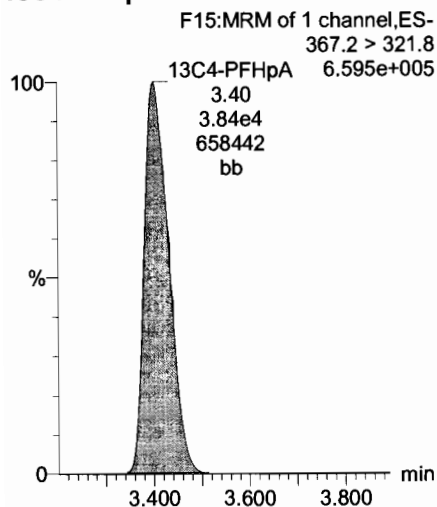
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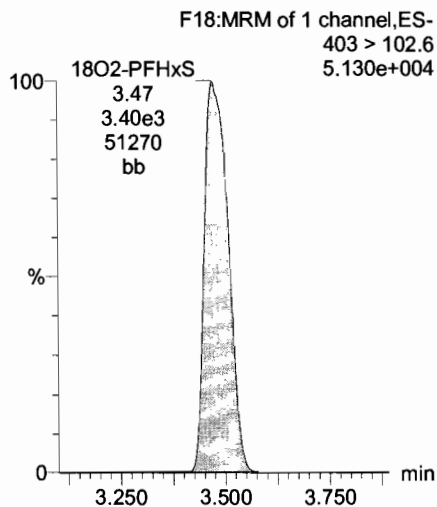
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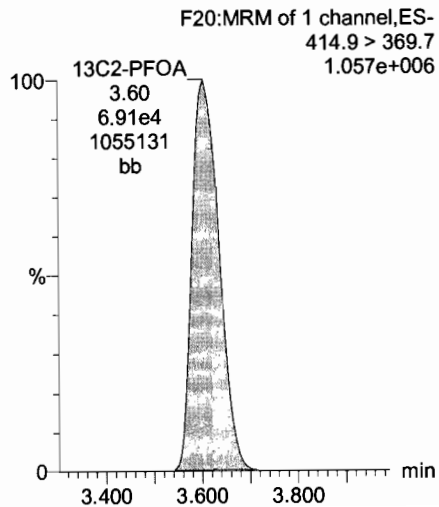
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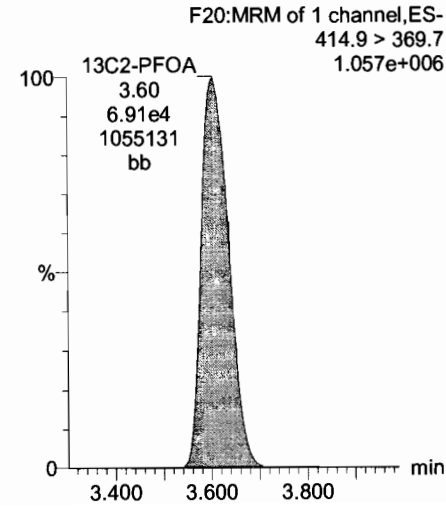
18O2-PFHxS



13C2-PFOA



13C2-PFOA



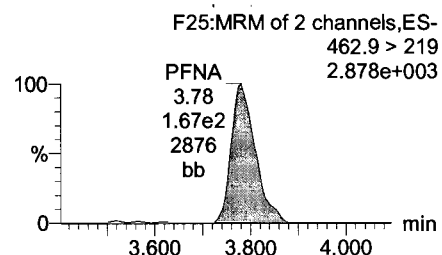
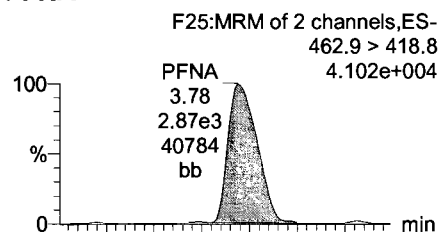
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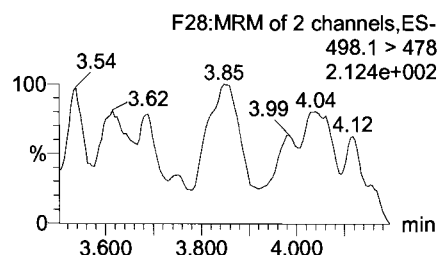
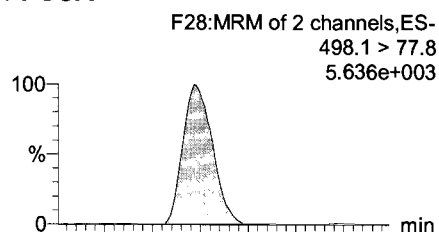
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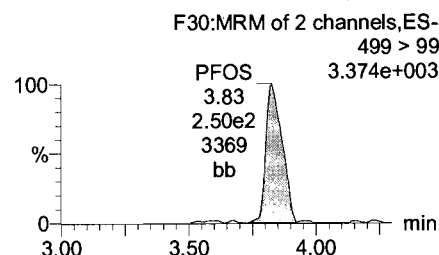
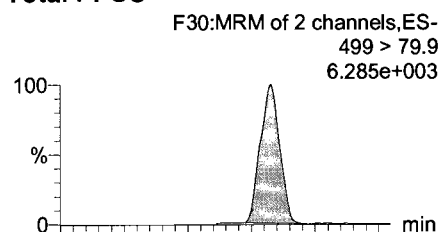
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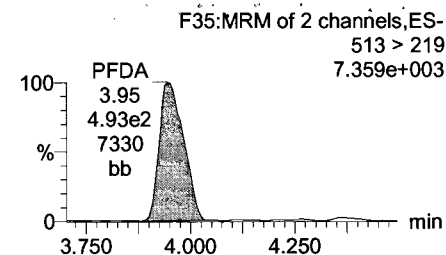
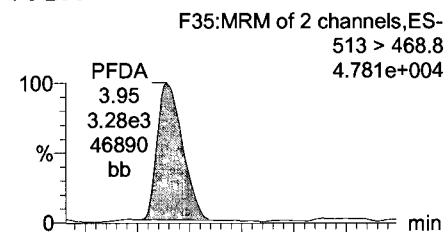
PFOSA



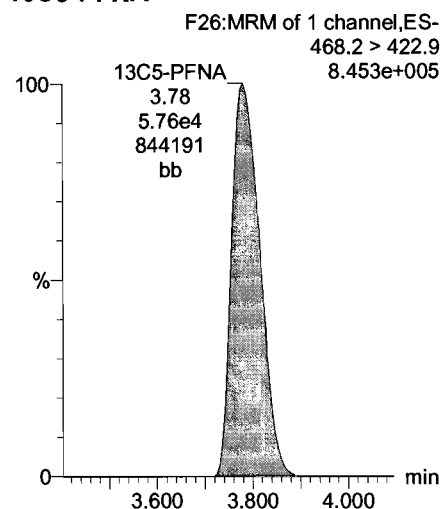
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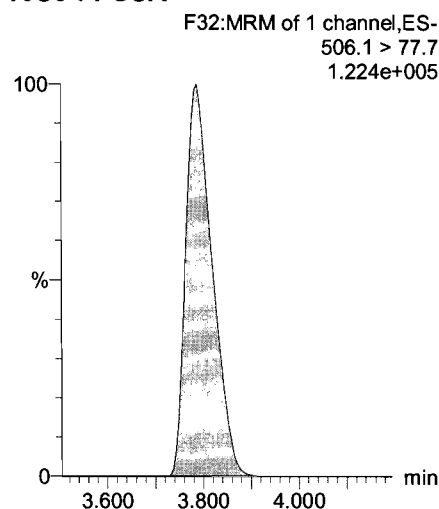
PFDA



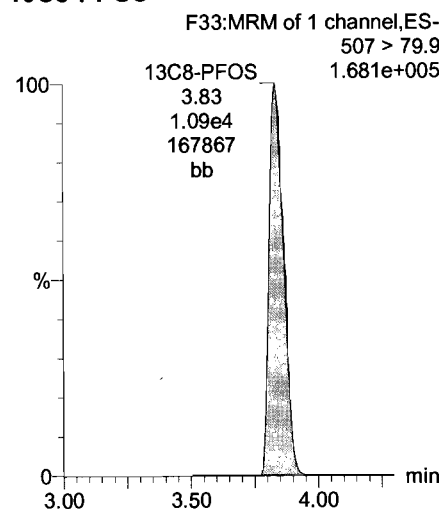
13C5-PFNA



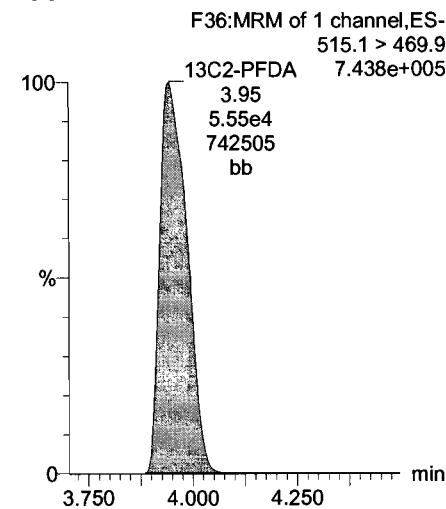
13C8-PFOSA



13C8-PFOS



13C2-PFDA



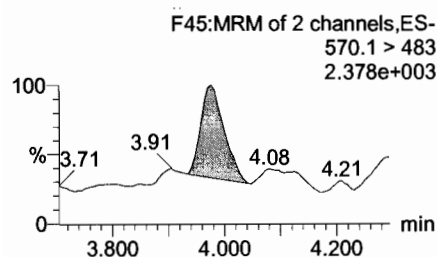
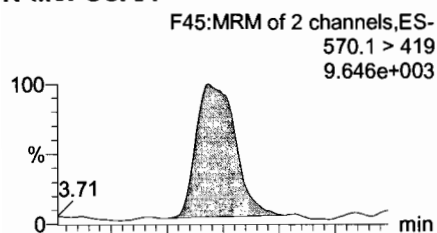
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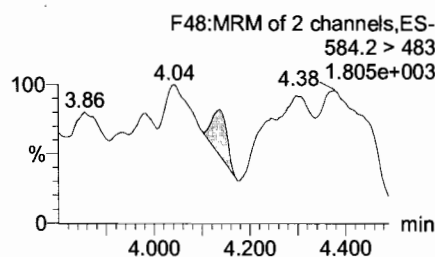
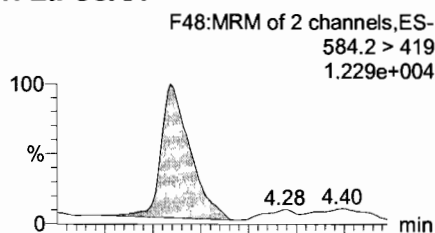
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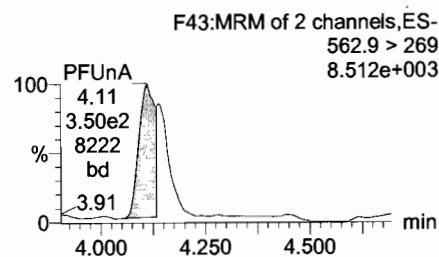
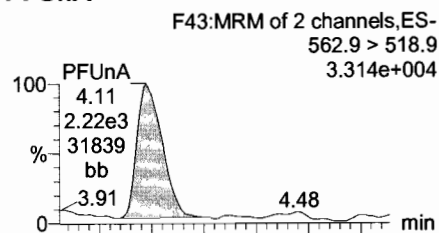
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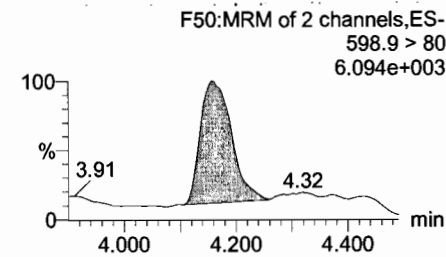
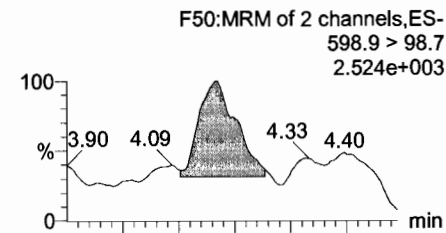
N-EtFOSAA



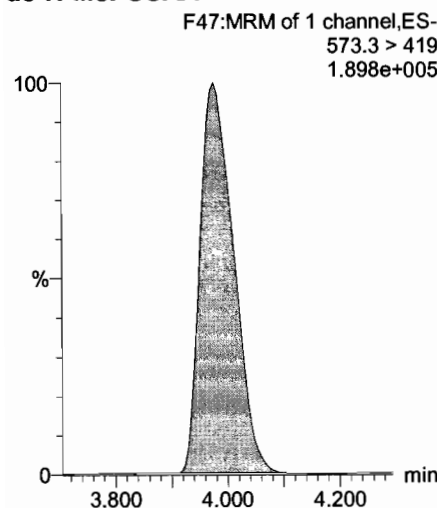
PFUnA



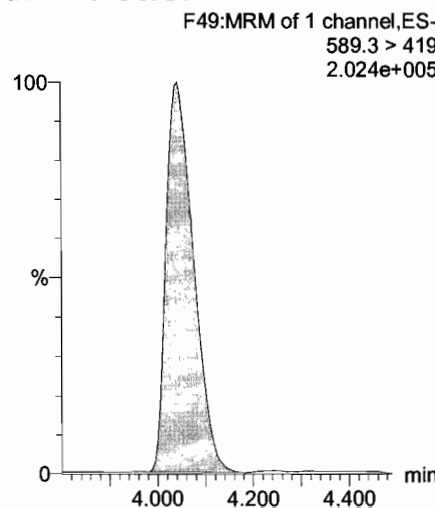
PFDS



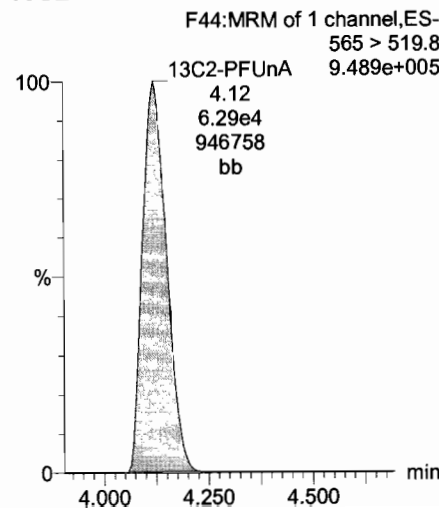
d3-N-MeFOSAA



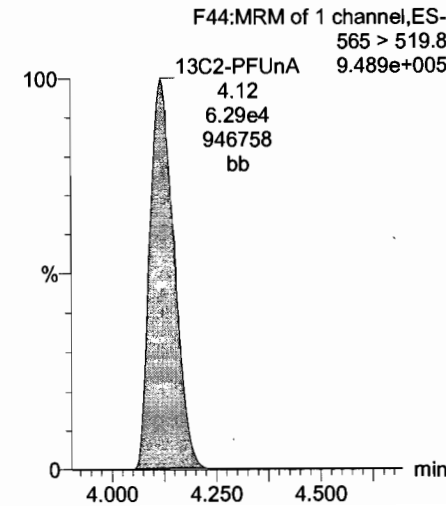
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13C2-PFUnA



13C2-PFUnA



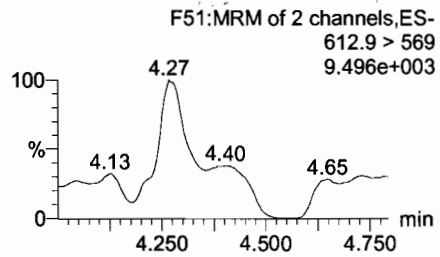
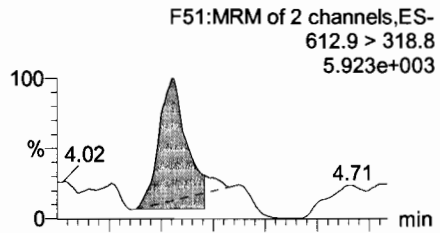
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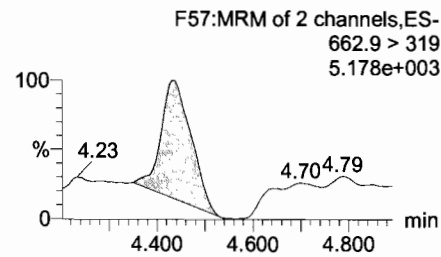
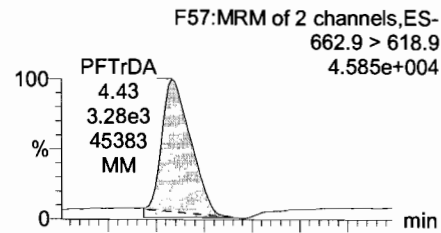
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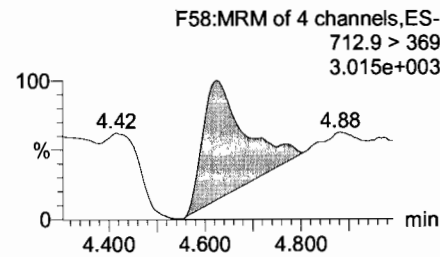
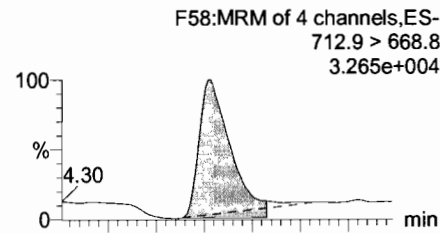
PFD_oA



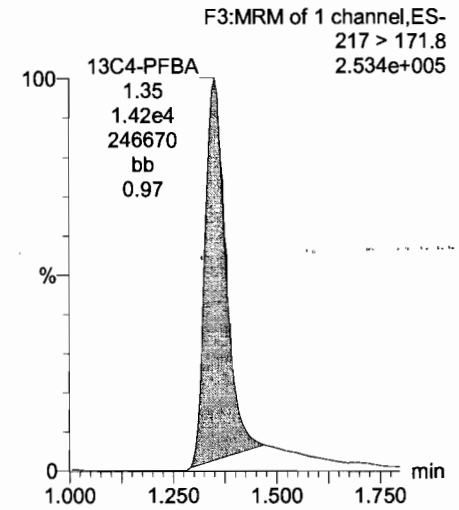
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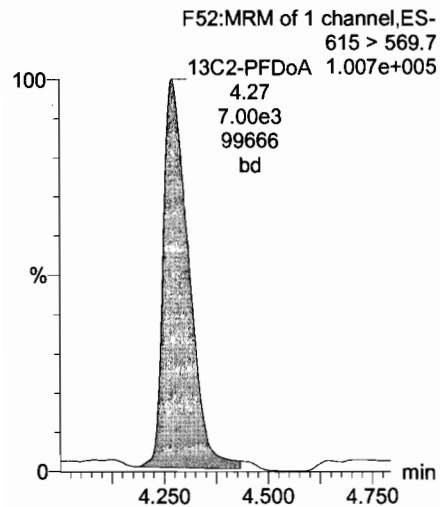
PFT_eDA



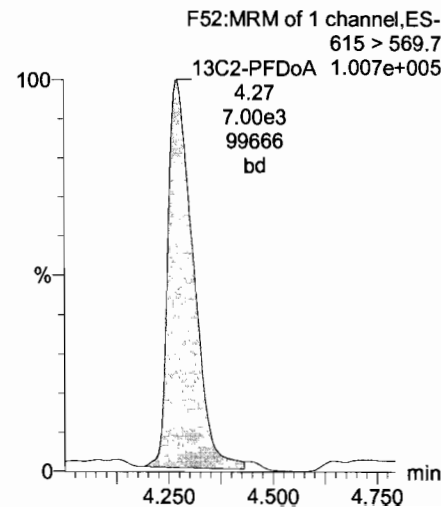
13C₄-PFBA



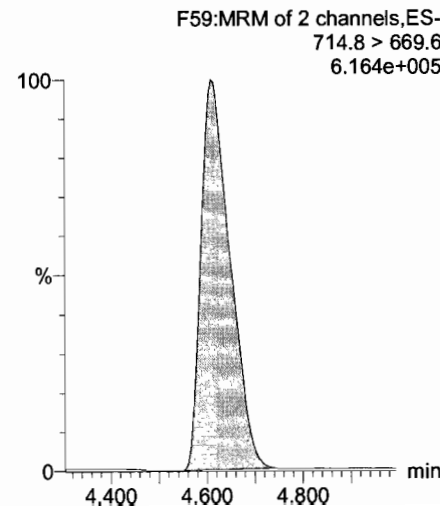
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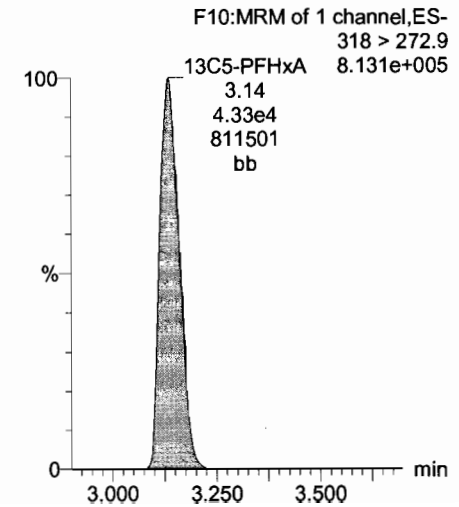
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13C₂-PFT_eDA



13C₅-PFH_xA



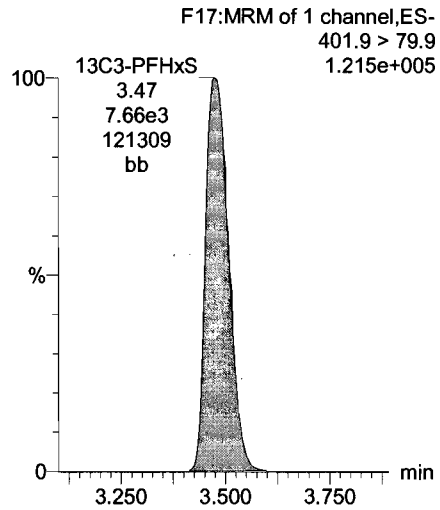
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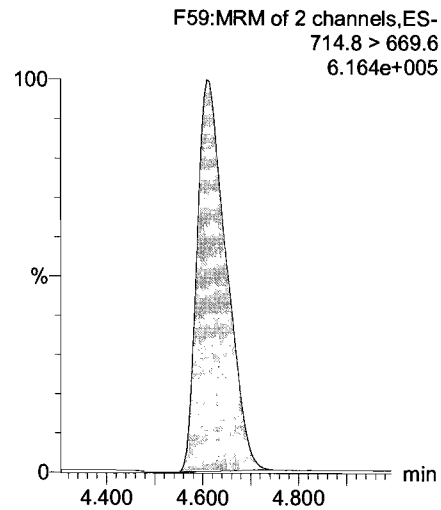
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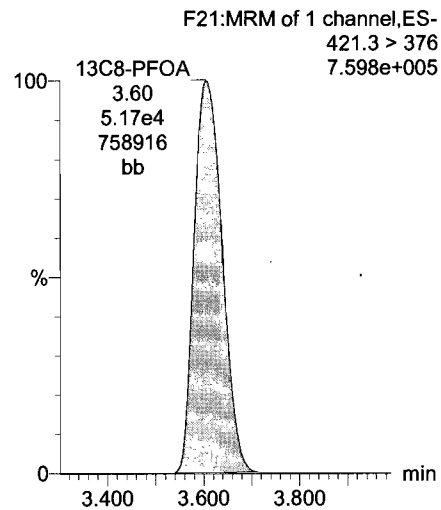
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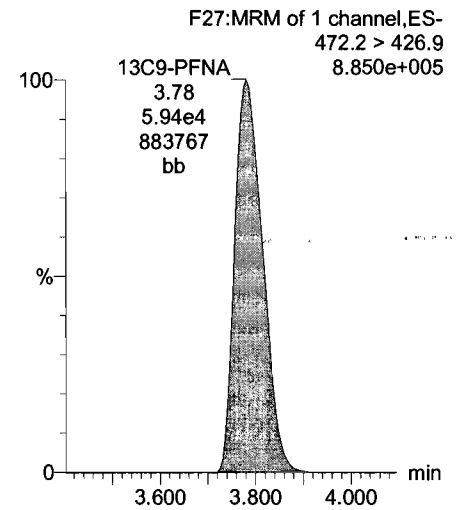
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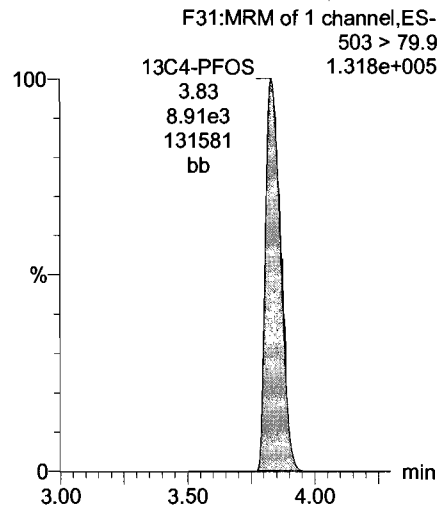
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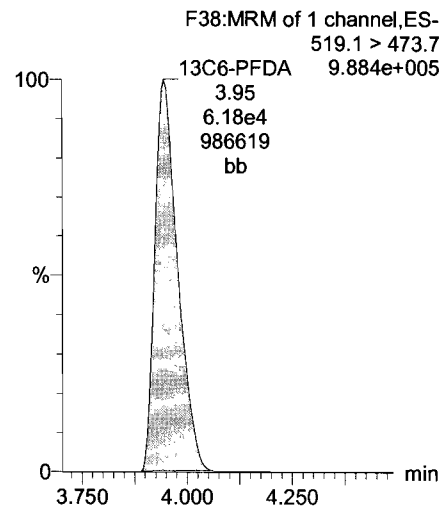
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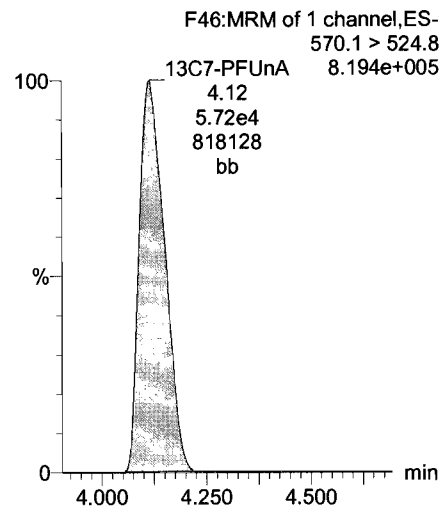
13C4-PFOS



13C6-PFDA



13C7-PFUnA



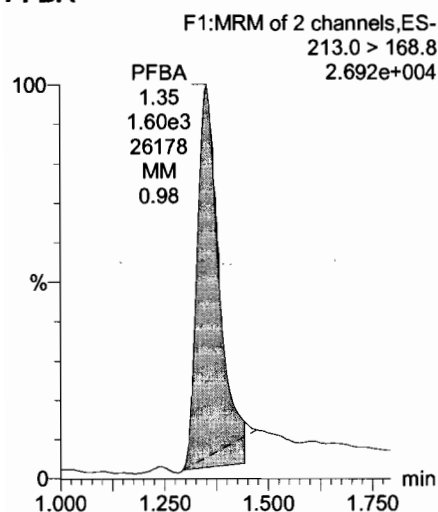
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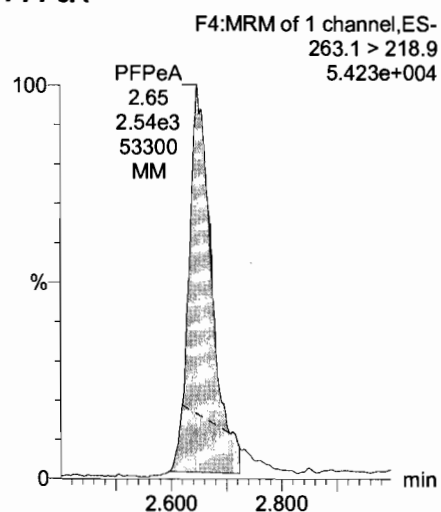
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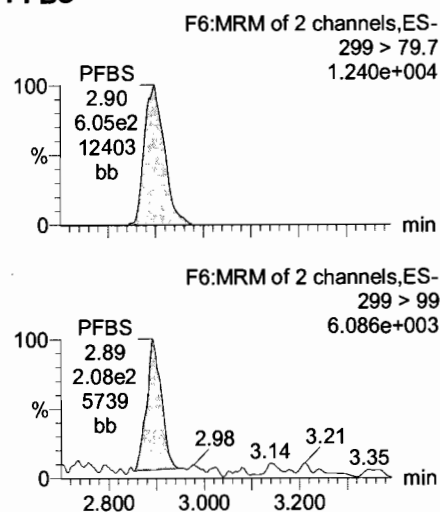
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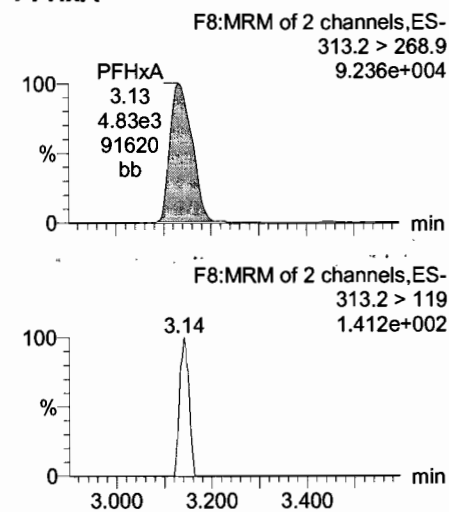
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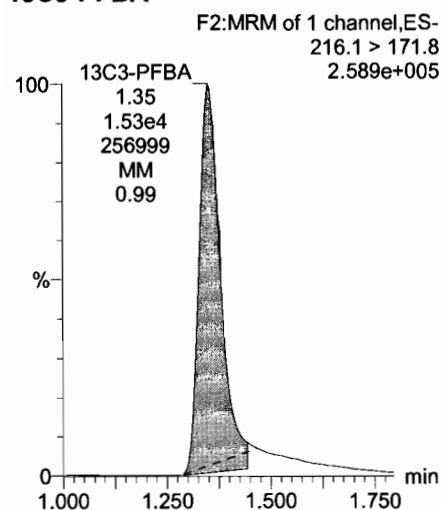
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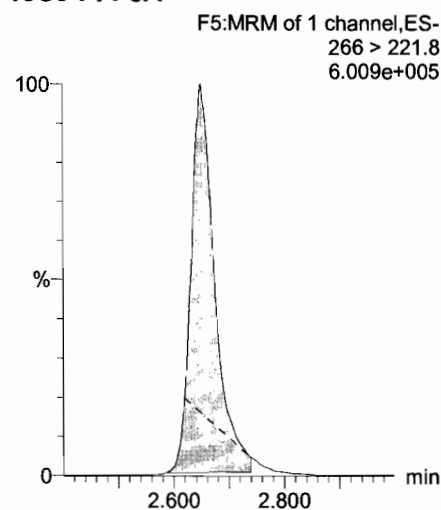
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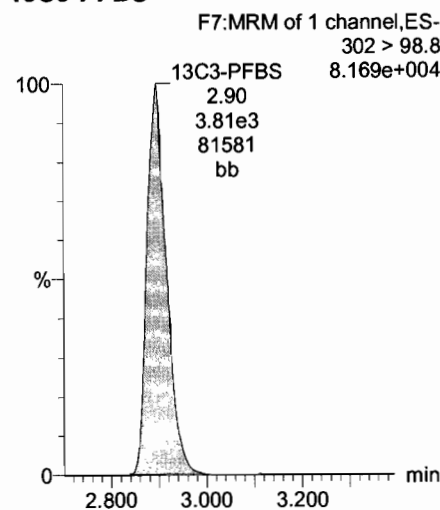
13C3-PFBA



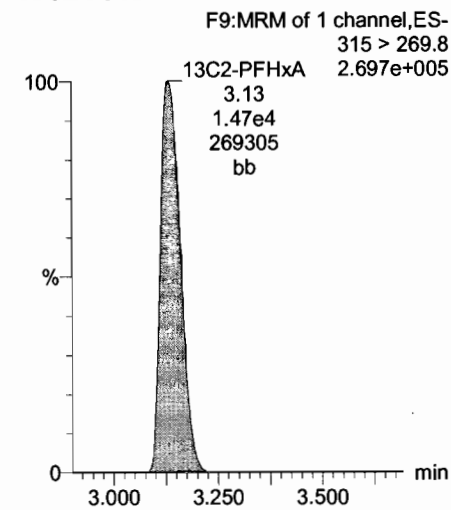
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13C3-PFBS



13C2-PFHxA



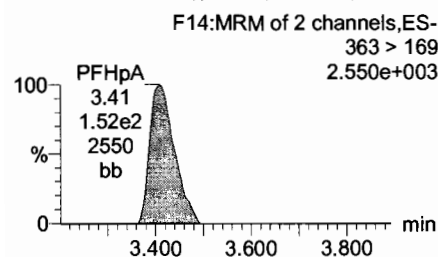
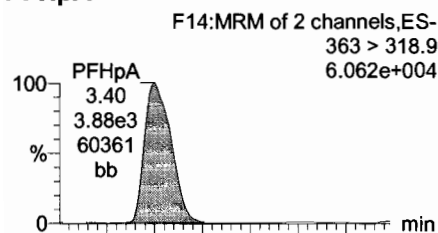
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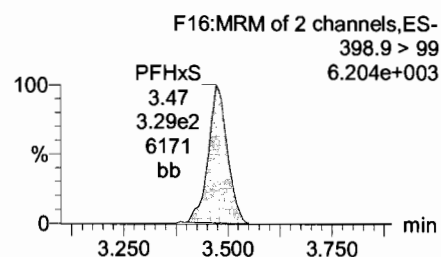
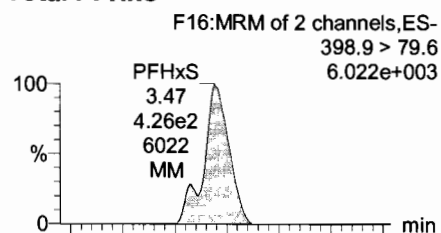
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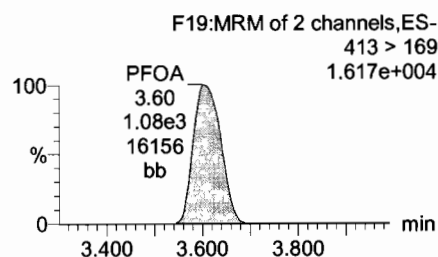
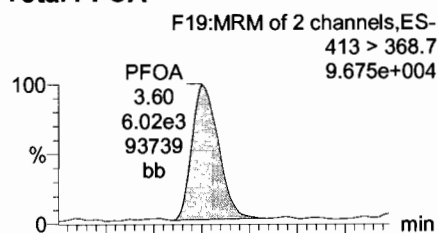
PFHpA



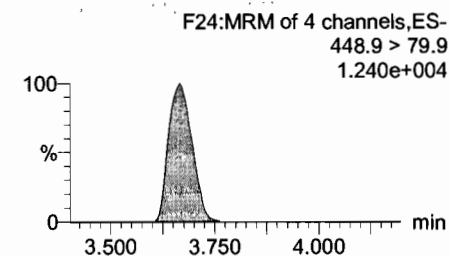
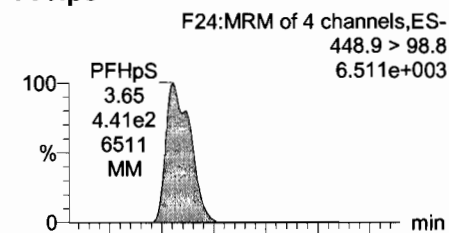
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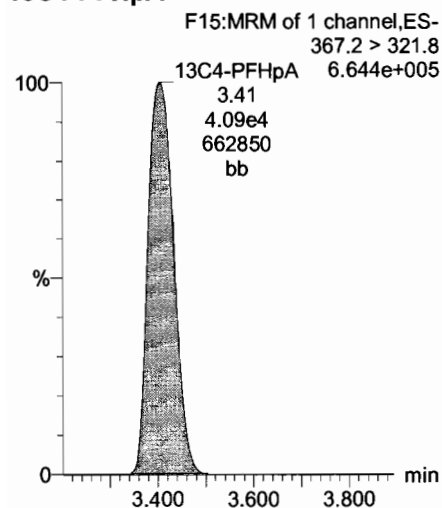
Total PFOA



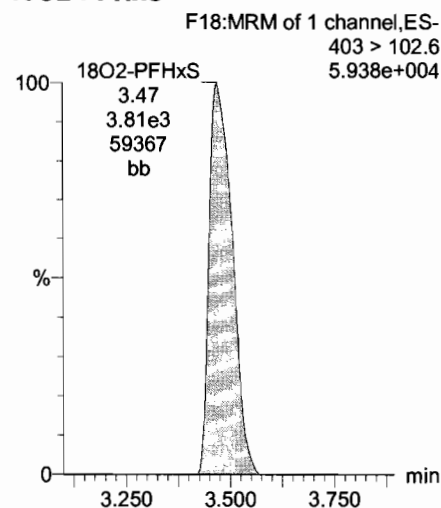
PFHpS



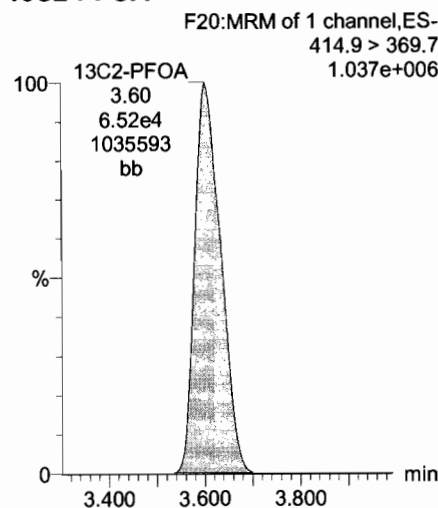
13C4-PFHpA



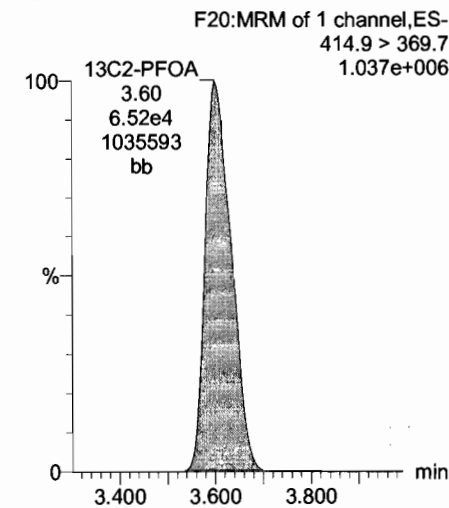
18O2-PFHxS



13C2-PFOA



13C2-PFOA



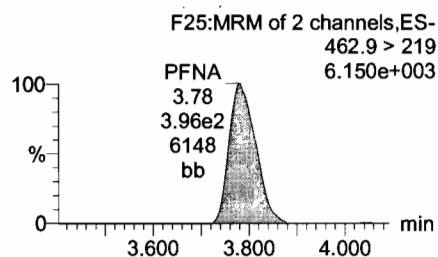
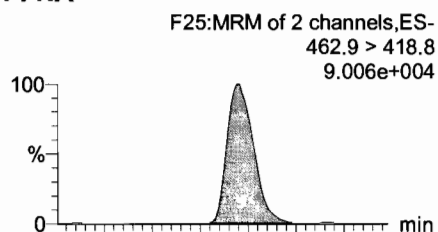
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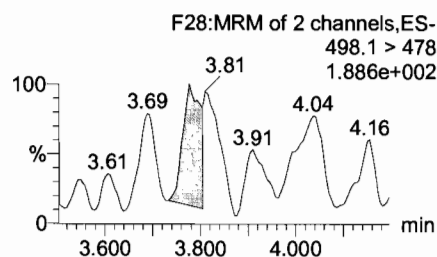
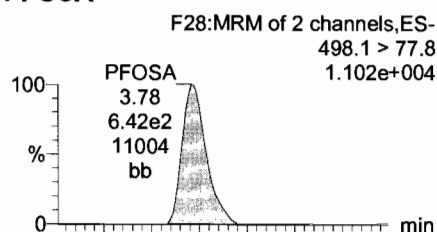
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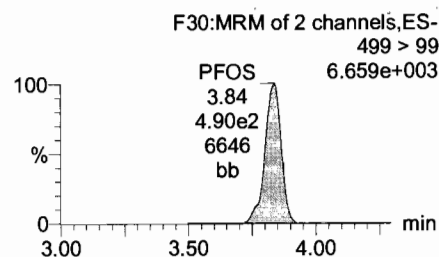
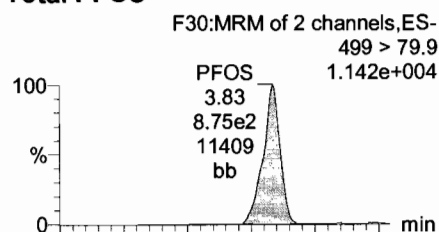
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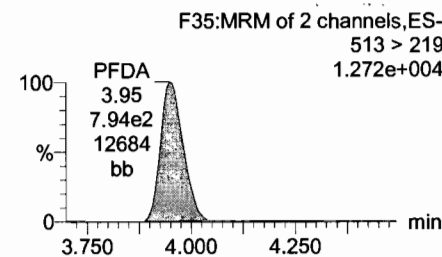
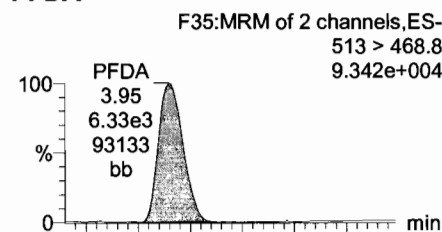
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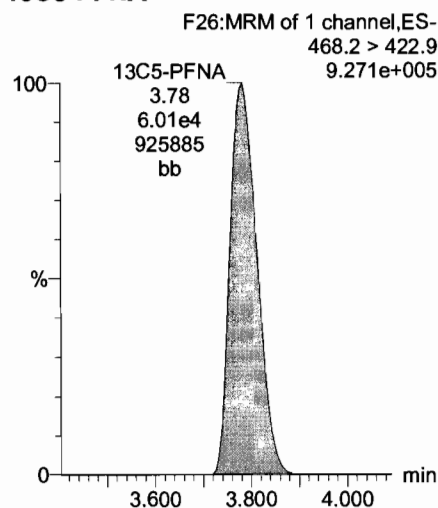
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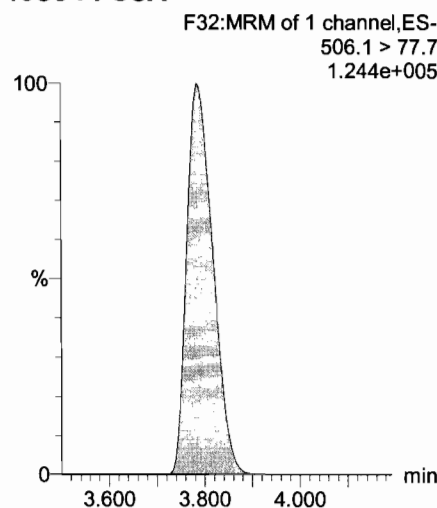
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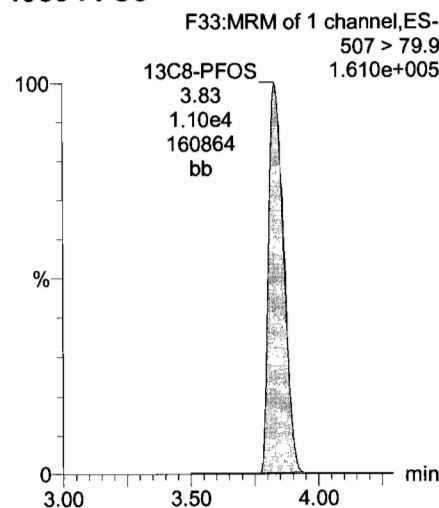
13C5-PFNA



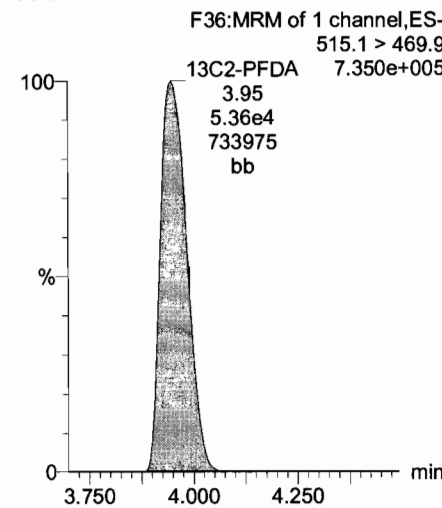
13C8-PFOSA



13C8-PFOS



13C2-PFDA



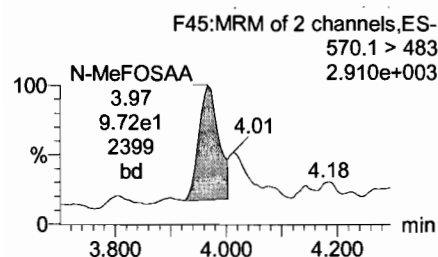
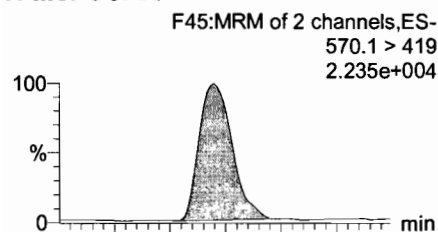
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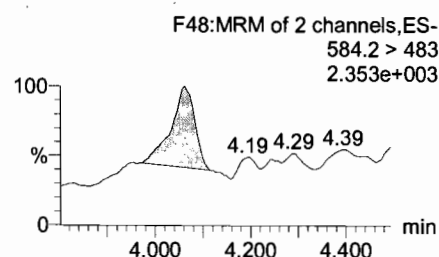
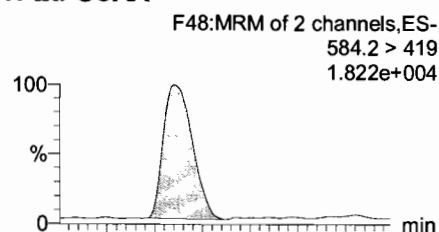
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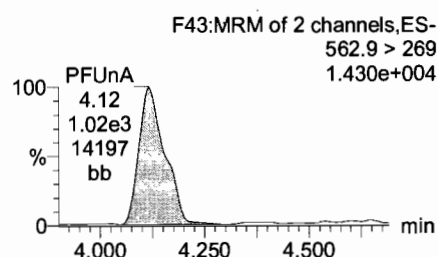
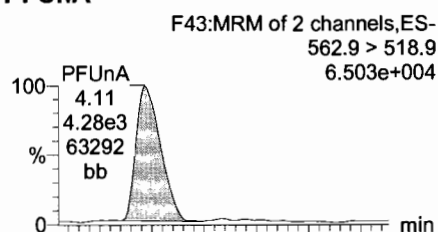
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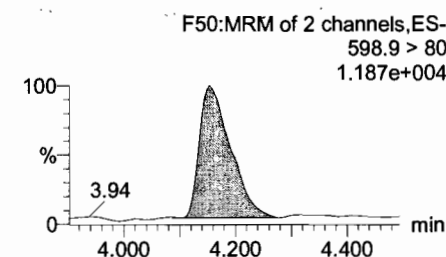
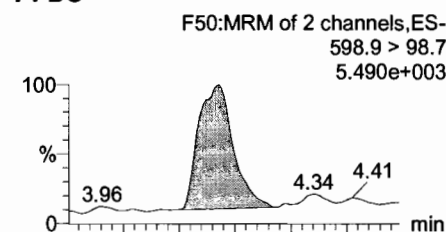
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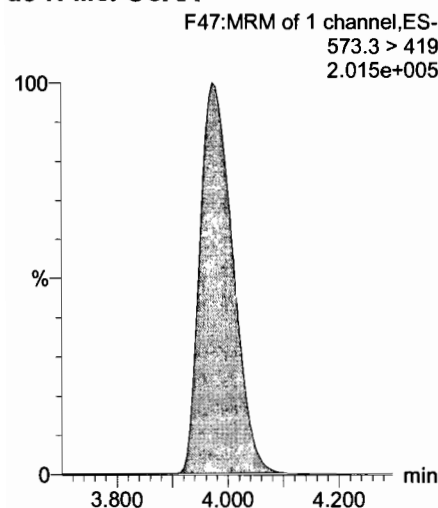
PFUnA



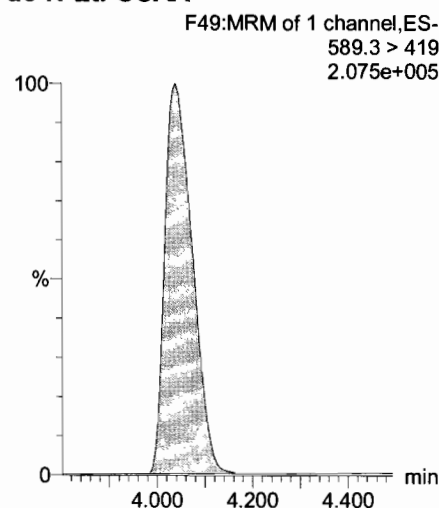
PFDS



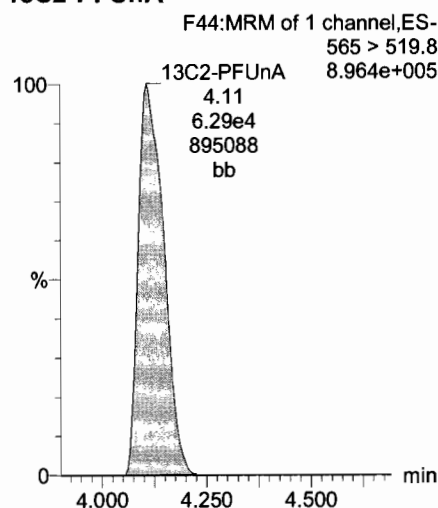
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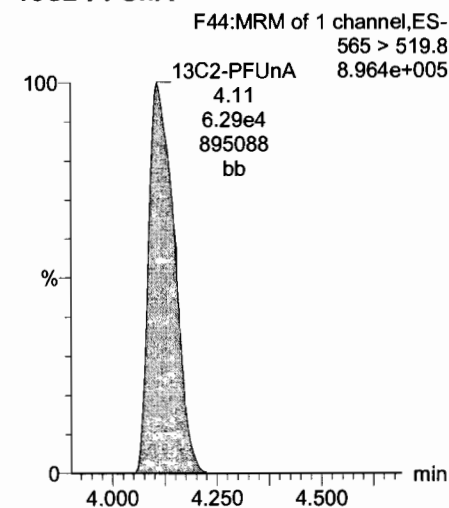
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13C2-PFUnA



13C2-PFUnA



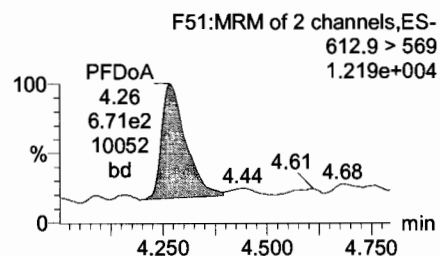
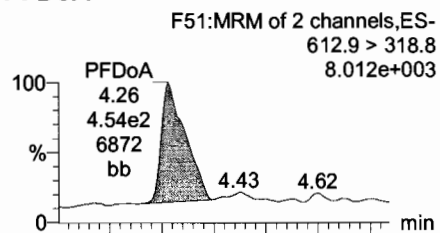
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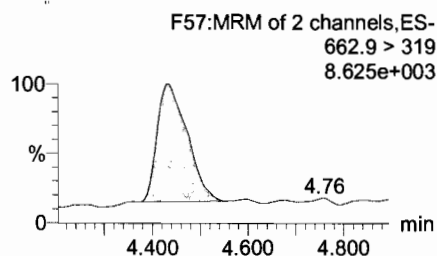
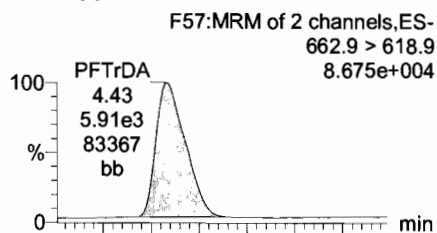
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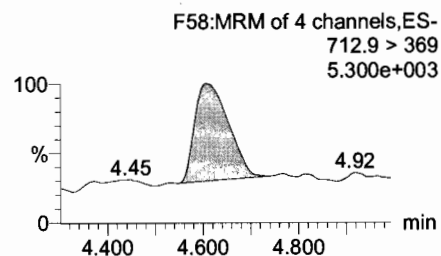
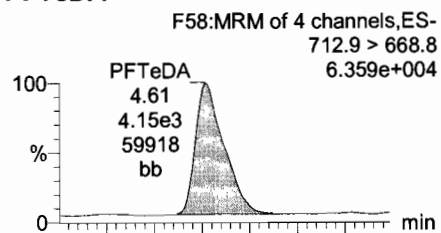
PFD0A



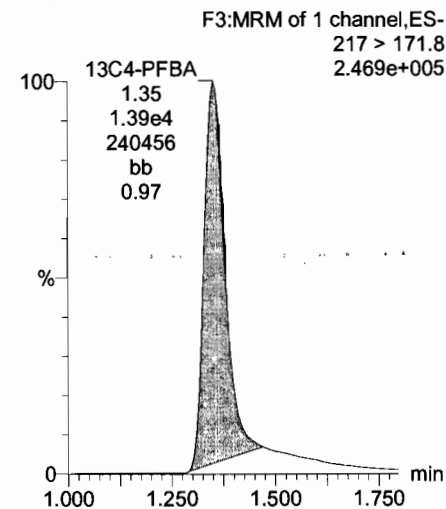
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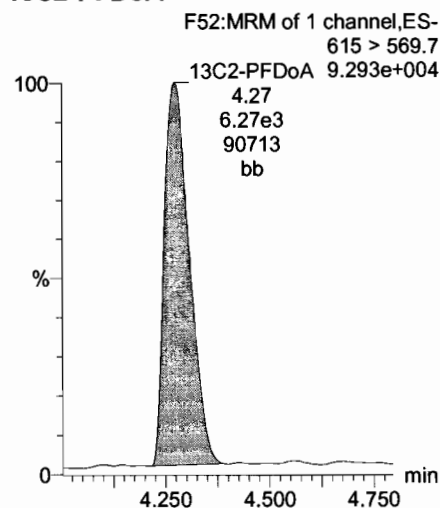
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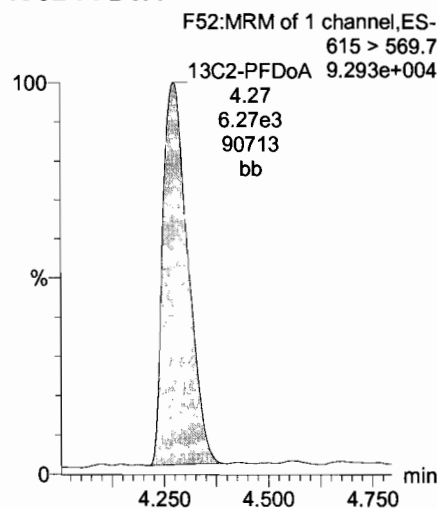
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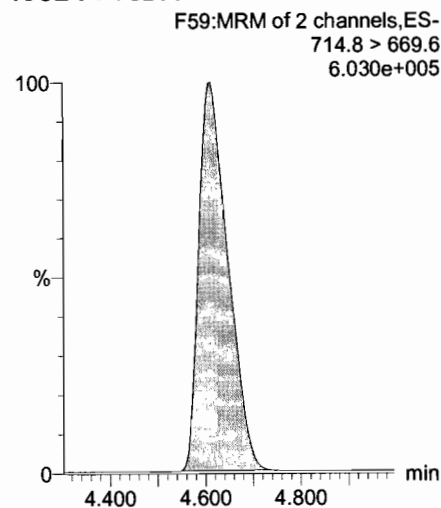
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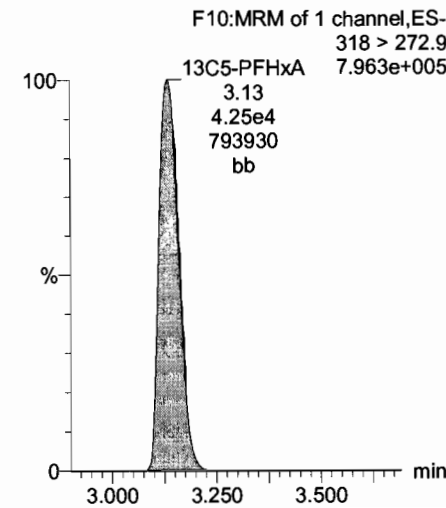
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13C2-PFTeDA



13C5-PFHxA



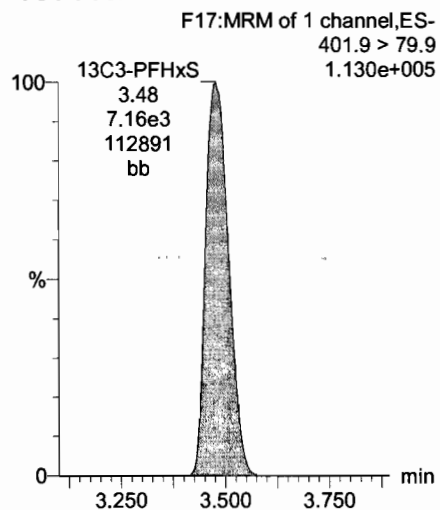
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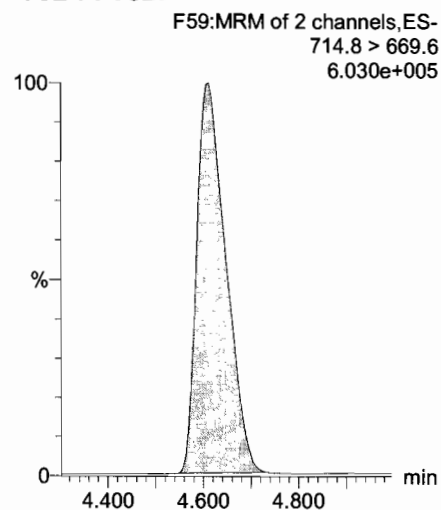
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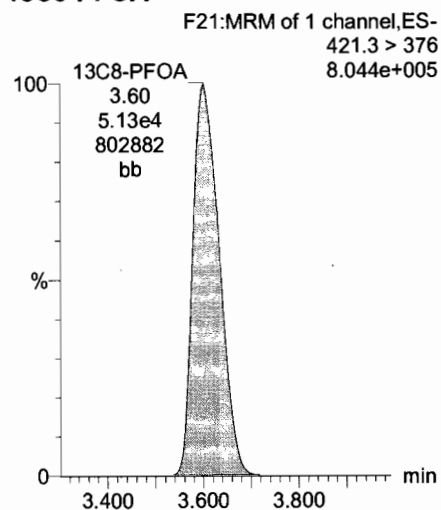
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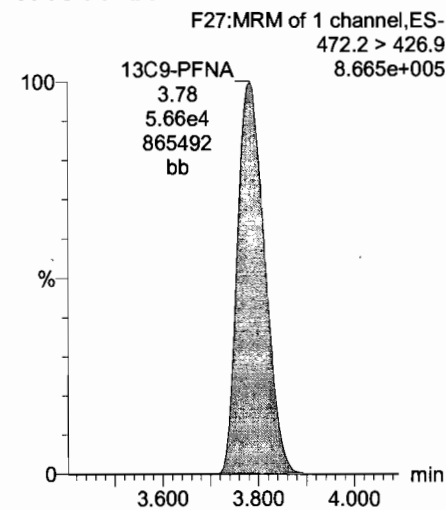
13C2-PFTeDA



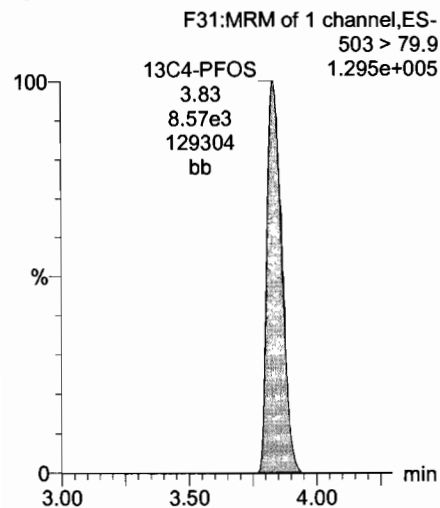
13C8-PFOA



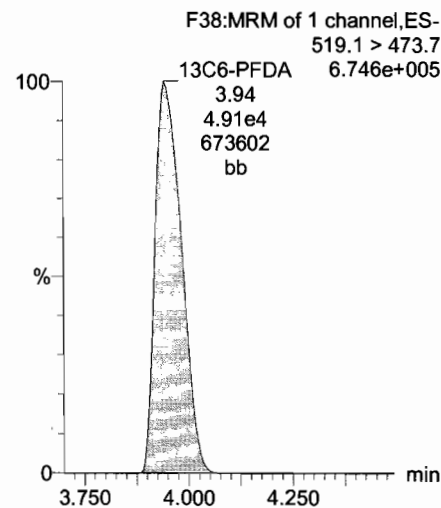
13C9-PFNA



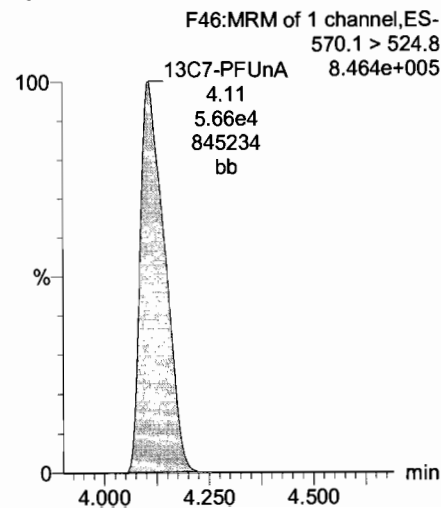
13C4-PFOS



13C6-PFDA



13C7-PFUnA



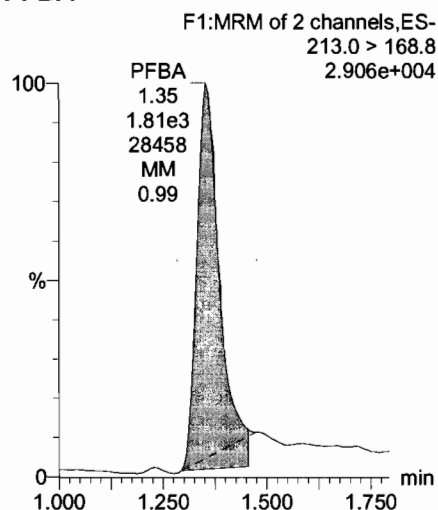
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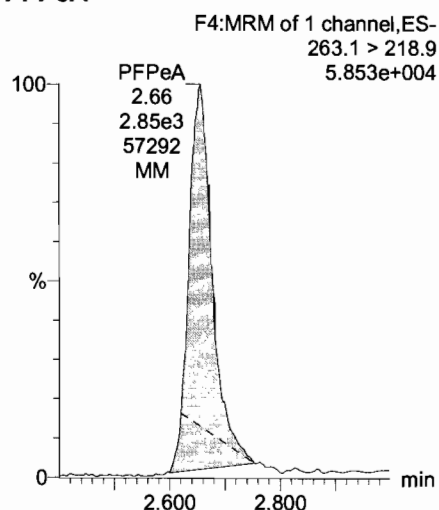
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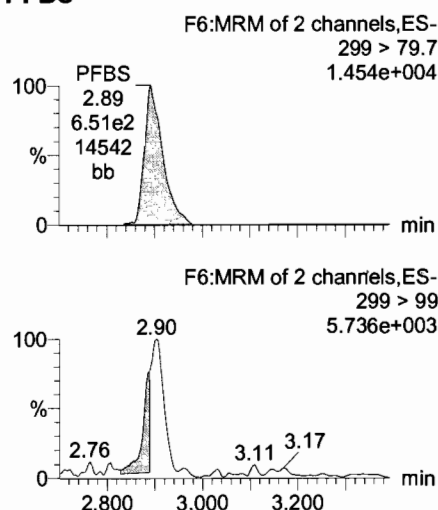
PFBA



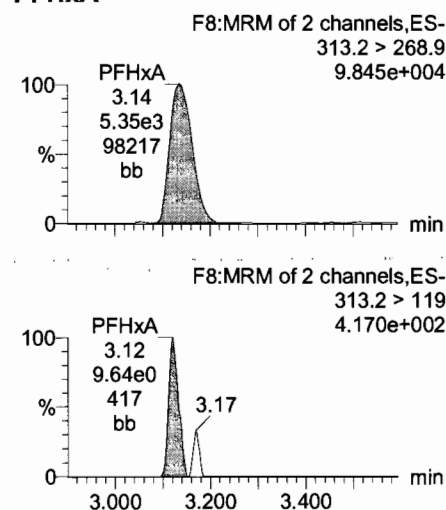
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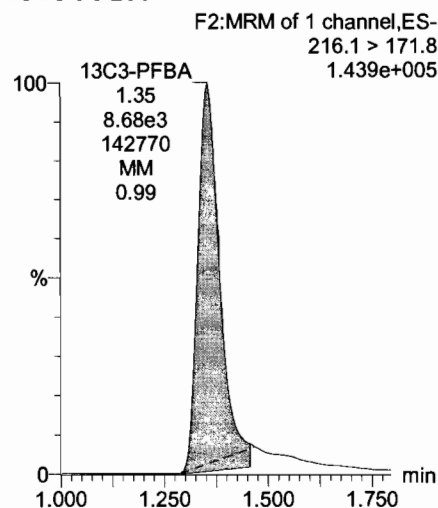
PFBS



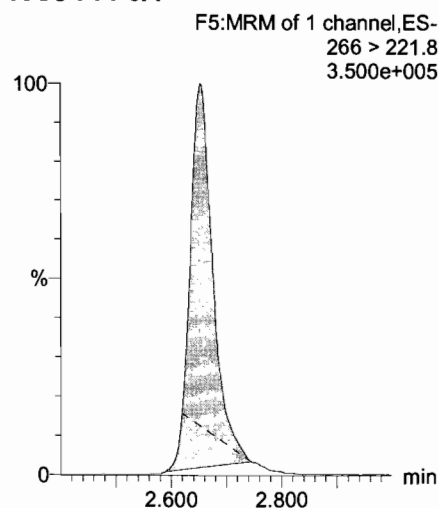
PFHxA



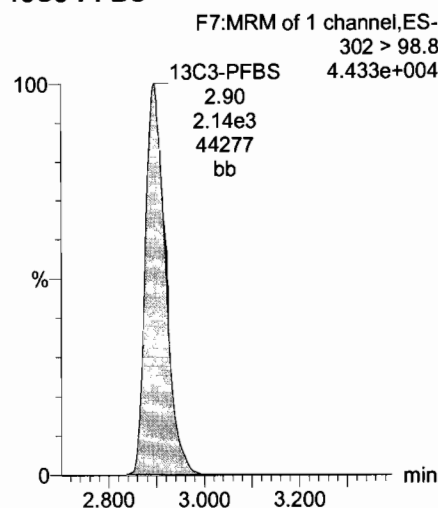
13C3-PFBA



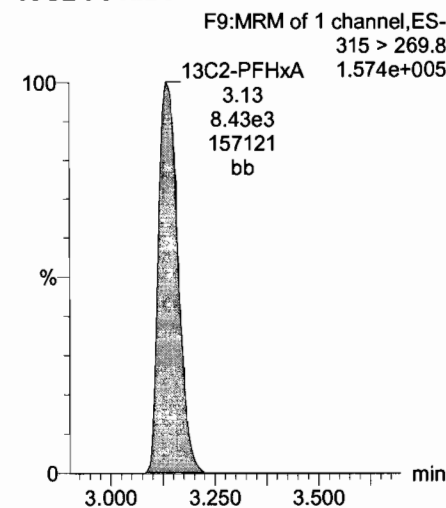
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13C3-PFBS



13C2-PFHxA



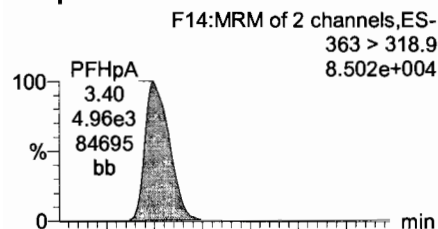
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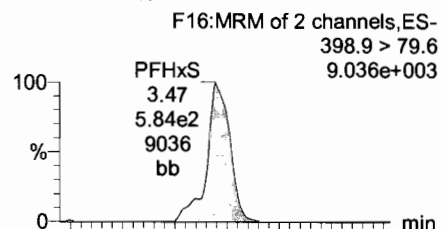
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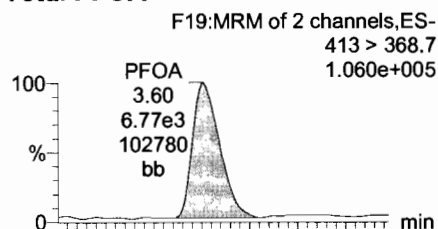
PFHpA



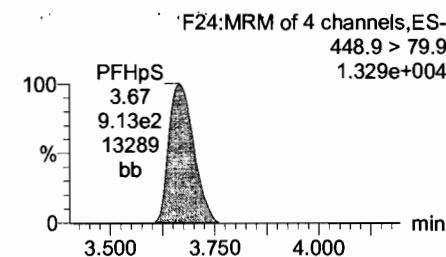
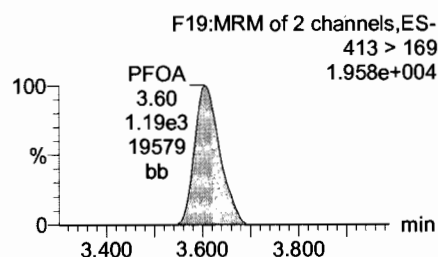
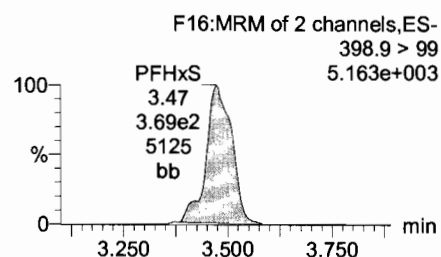
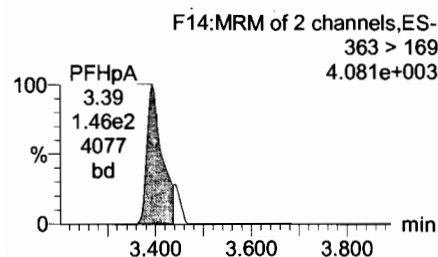
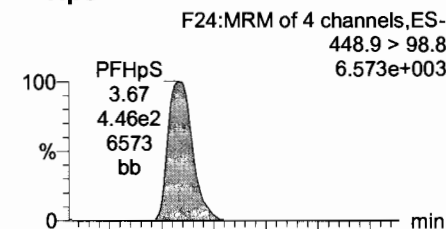
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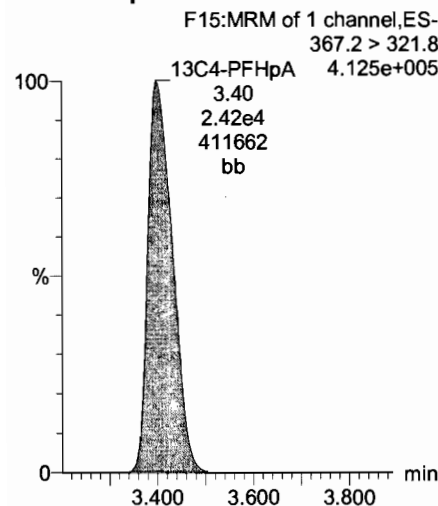
Total PFOA



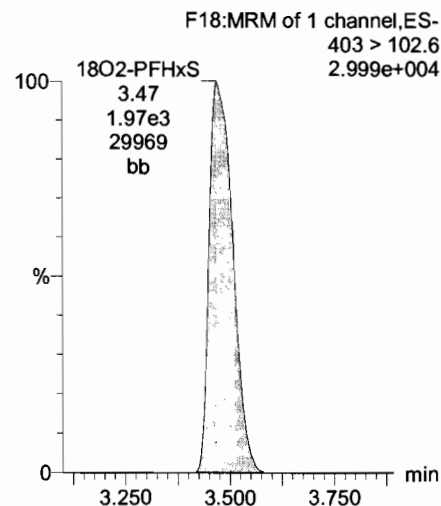
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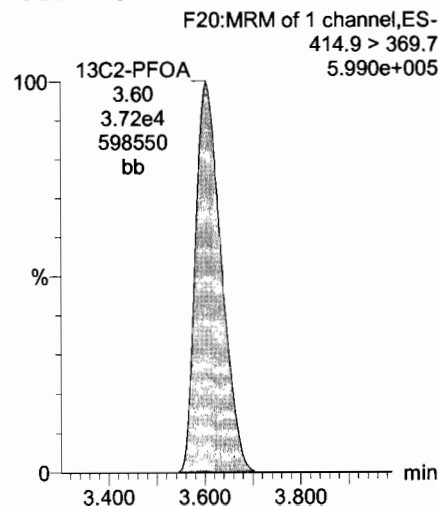
13C4-PFHpA



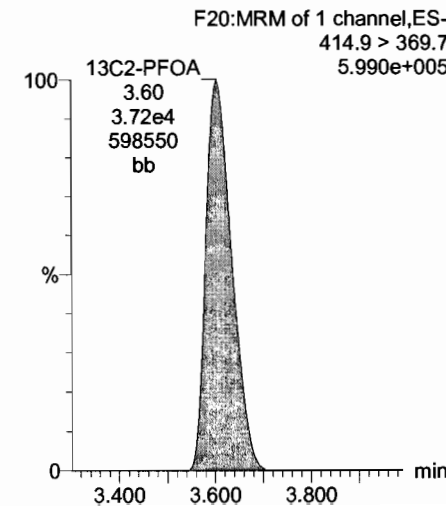
18O2-PFHxS



13C2-PFOA



13C2-PFOA



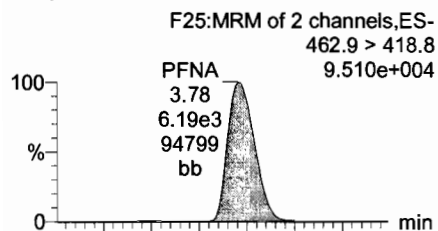
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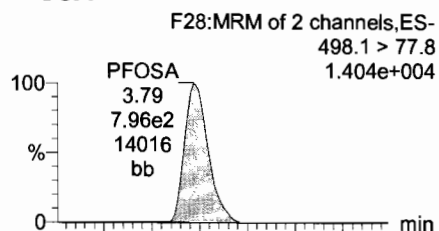
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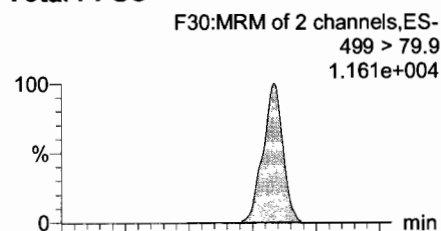
PFNA



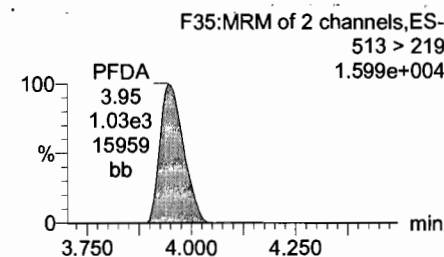
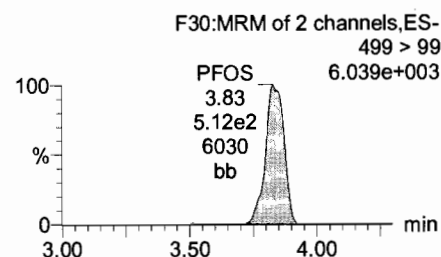
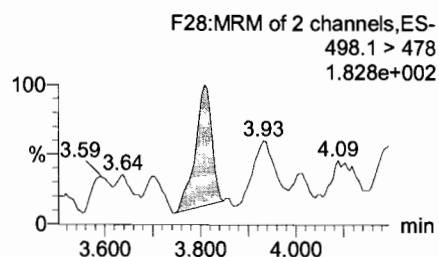
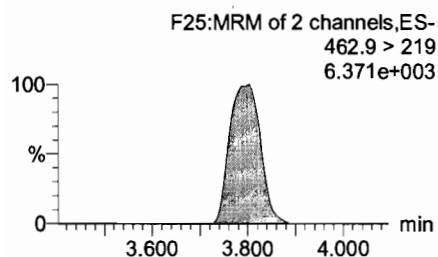
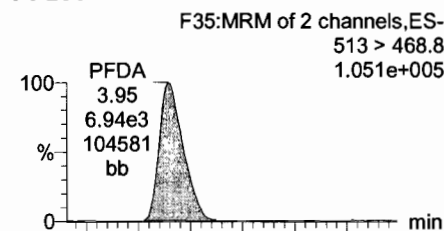
PFOSA



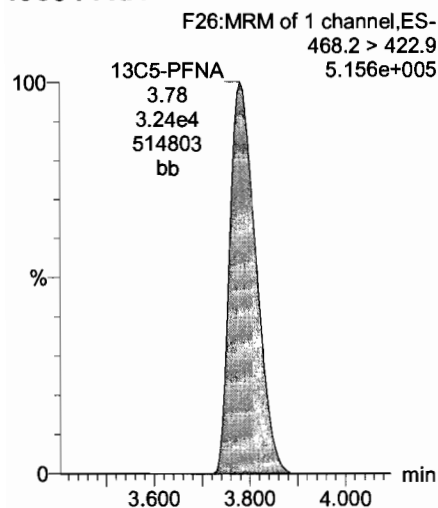
Total PFOS



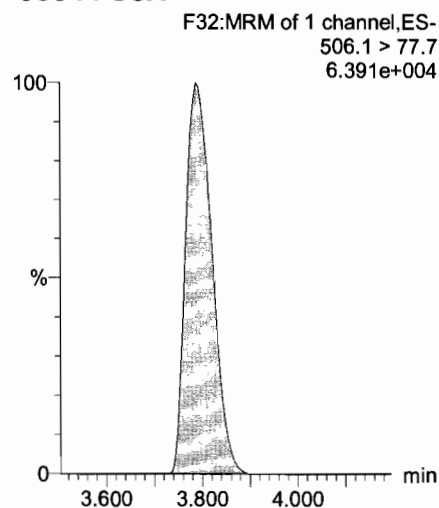
PFDA



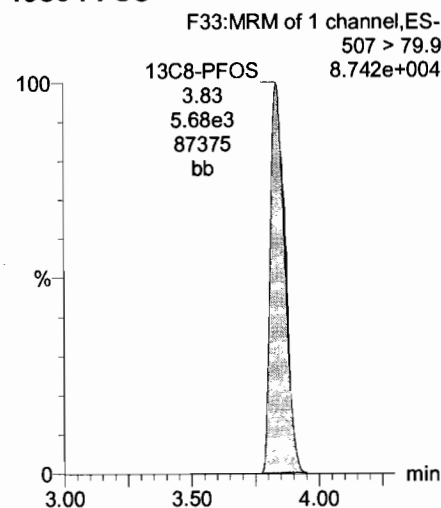
13C5-PFNA



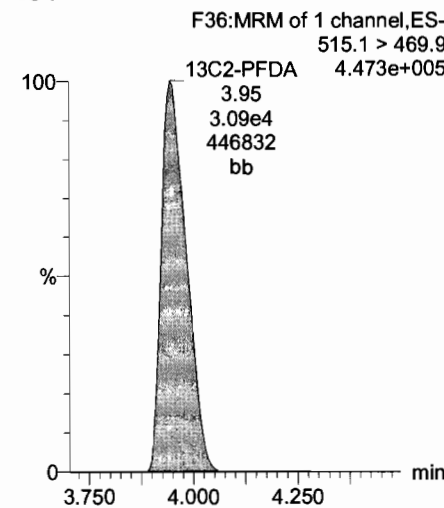
13C8-PFOSA



13C8-PFOS



13C2-PFDA



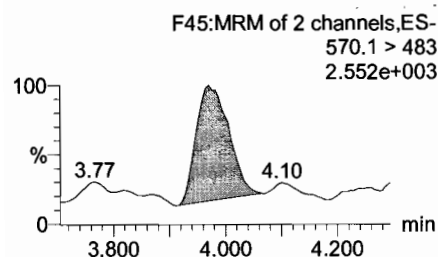
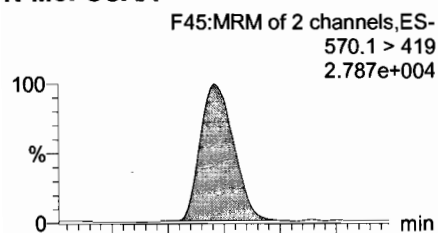
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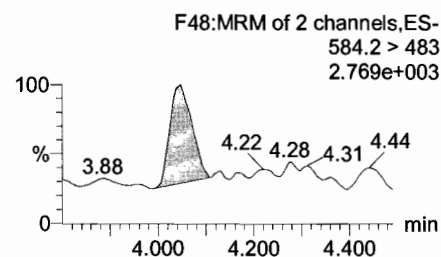
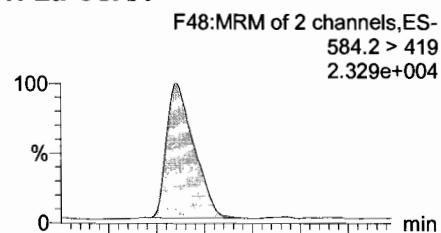
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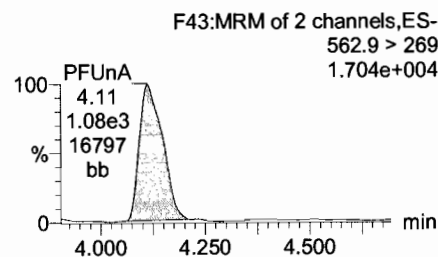
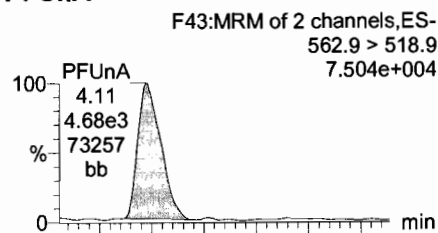
N-MeFOSAA



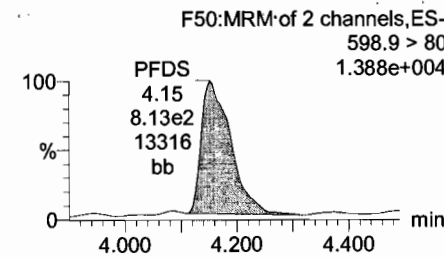
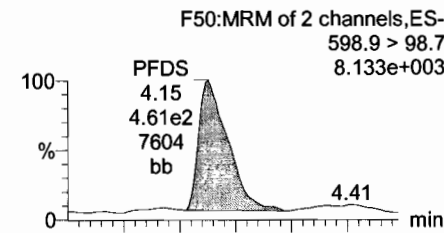
N-EtFOSAA



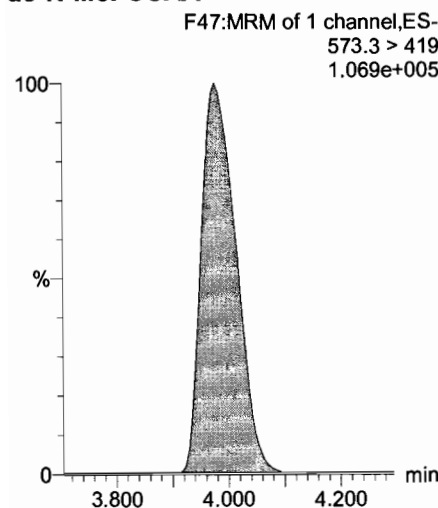
PFUnA



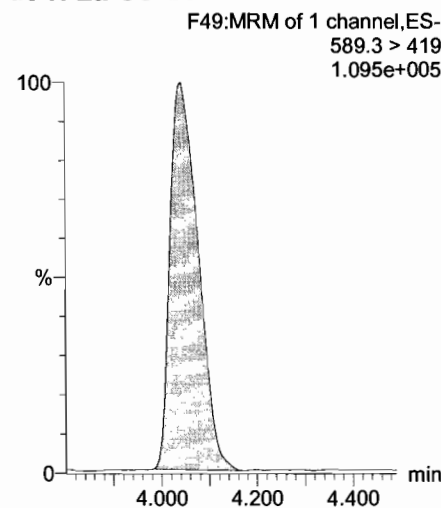
PFDS



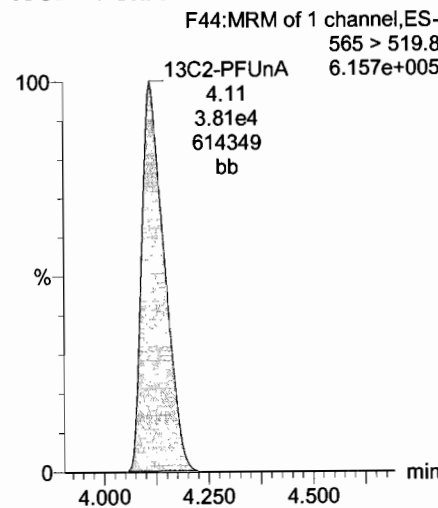
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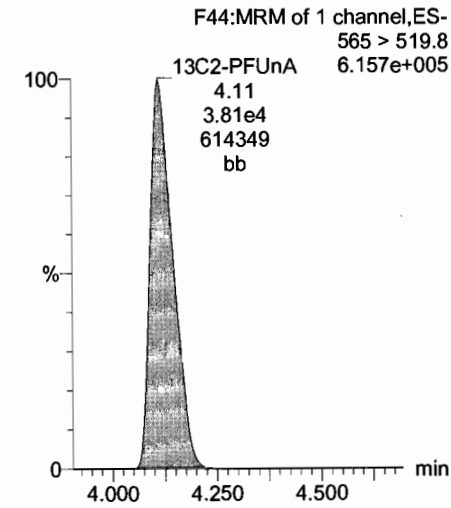
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13C2-PFUnA



13C2-PFUnA



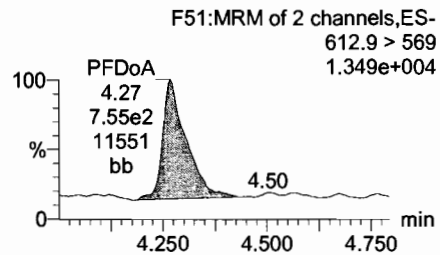
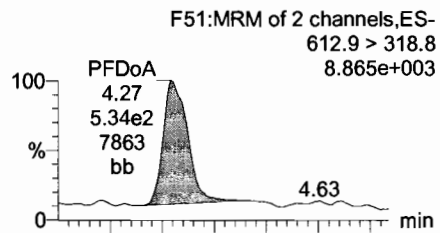
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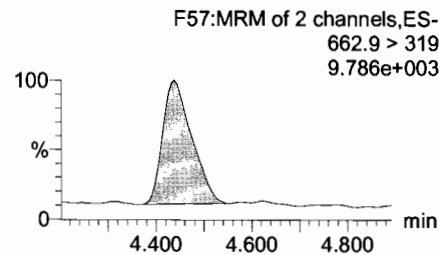
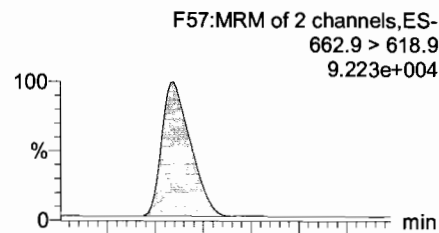
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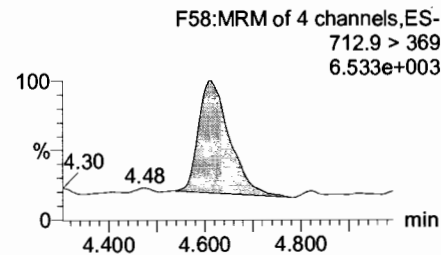
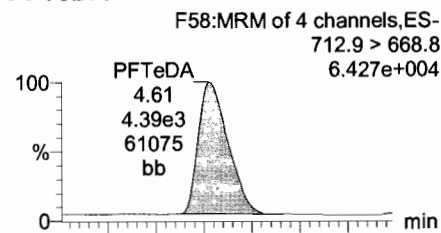
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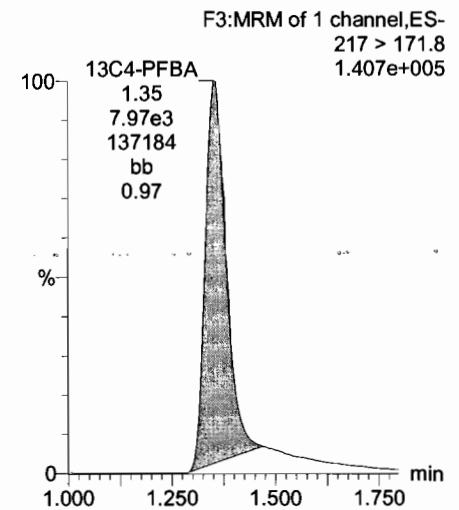
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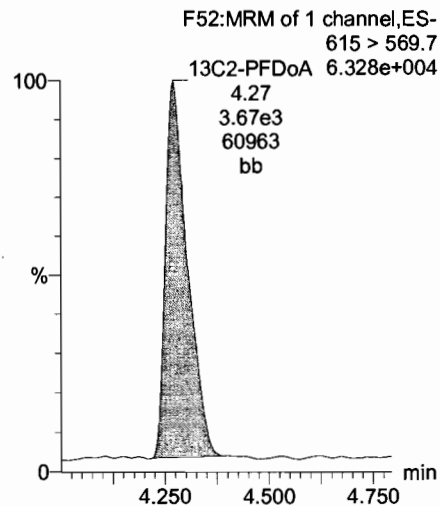
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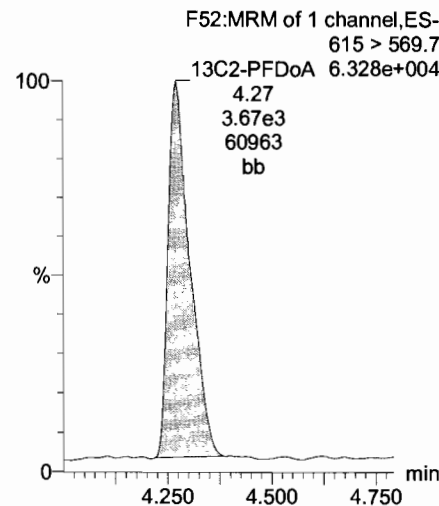
¹³C4-PFBA



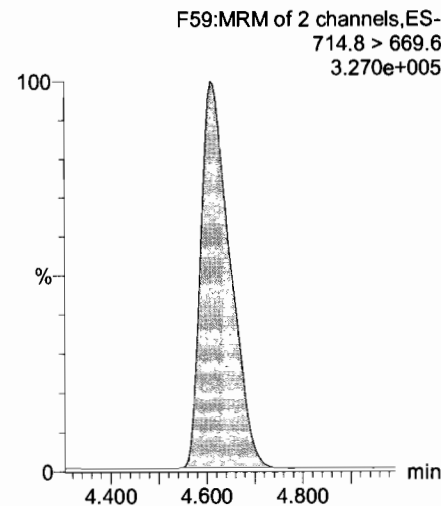
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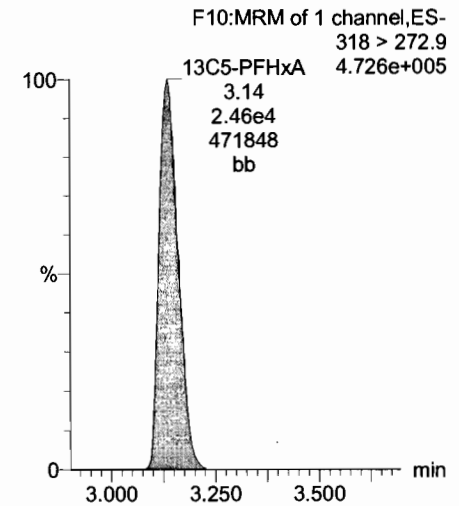
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¹³C2-PFT_eDA



¹³C5-PFH_xA



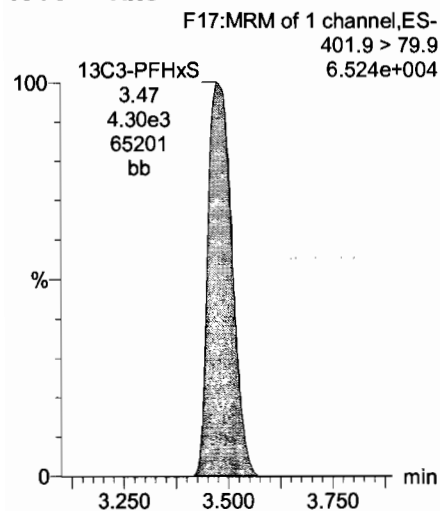
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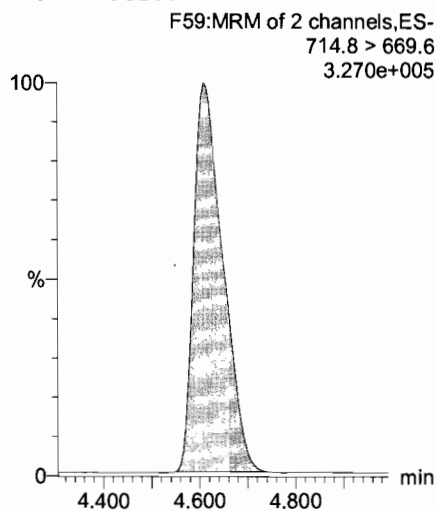
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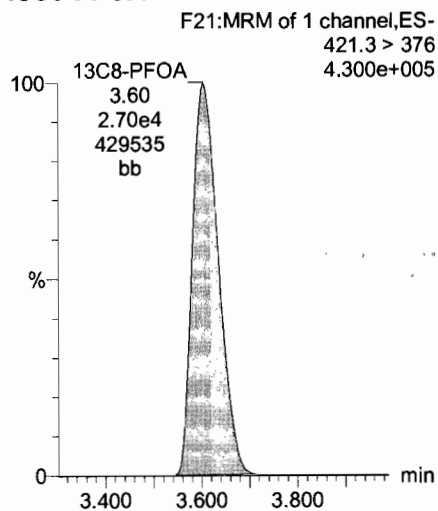
13C3-PFHxS



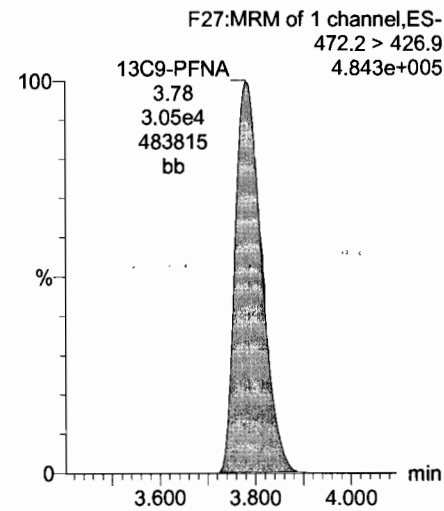
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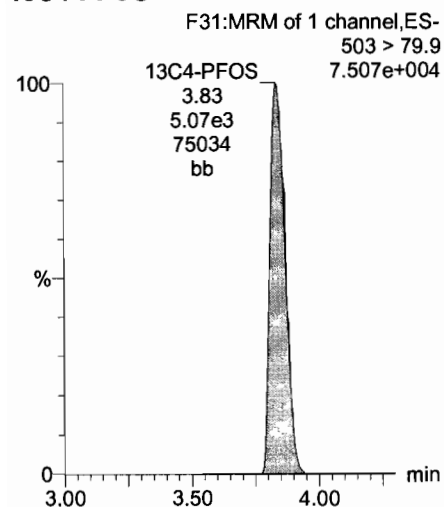
13C8-PFOA



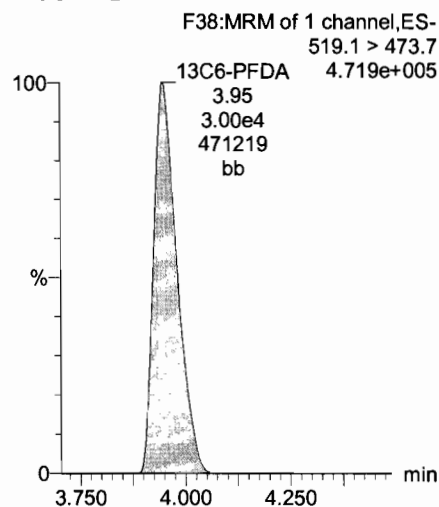
13C9-PFNA



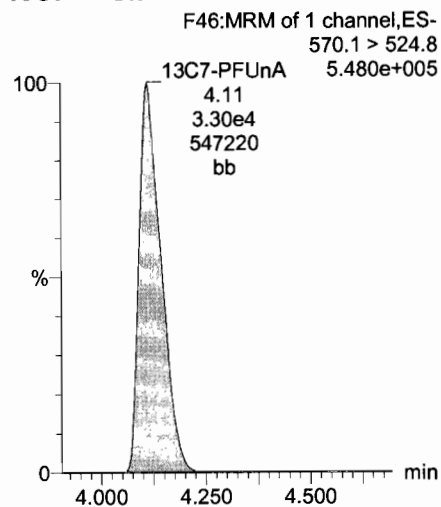
13C4-PFOS



13C6-PFDA



13C7-PFUnA



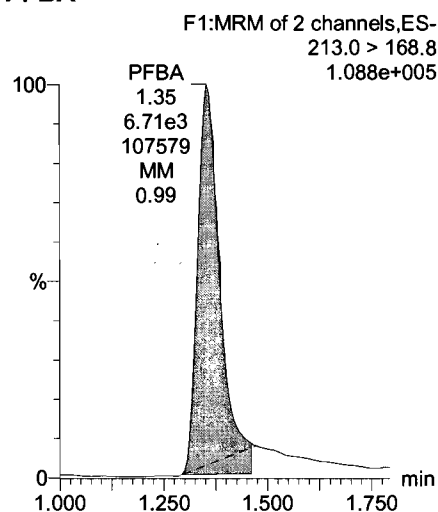
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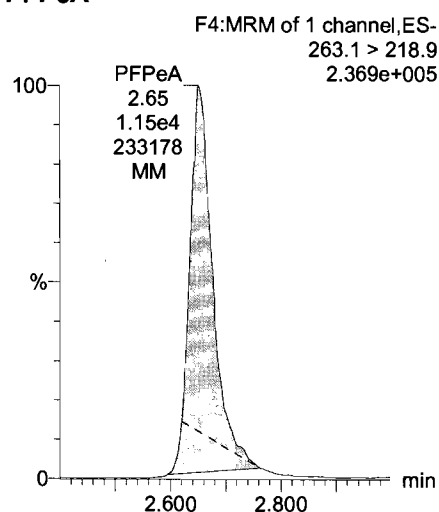
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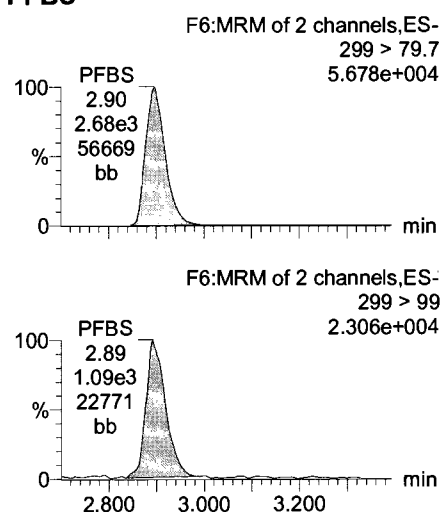
PFBA



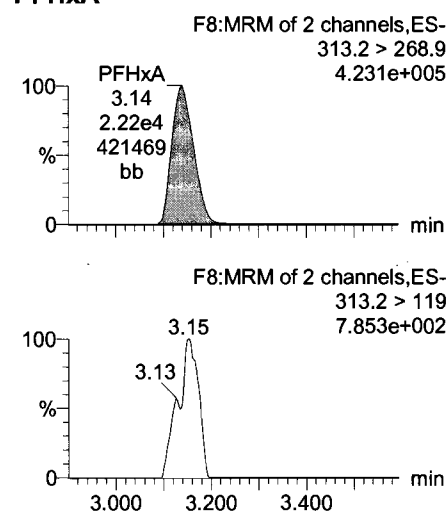
PFPeA



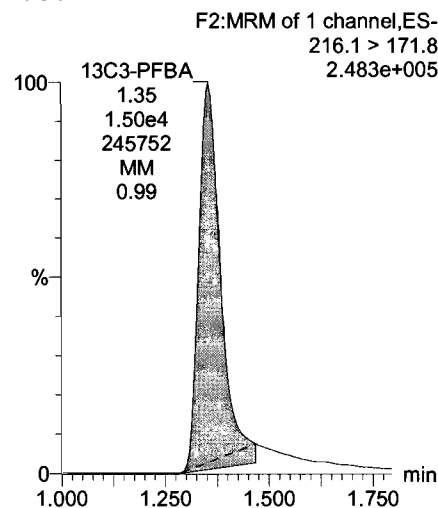
PFBS



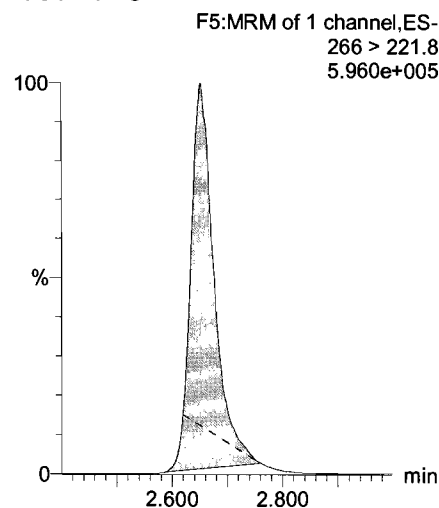
PFHxA



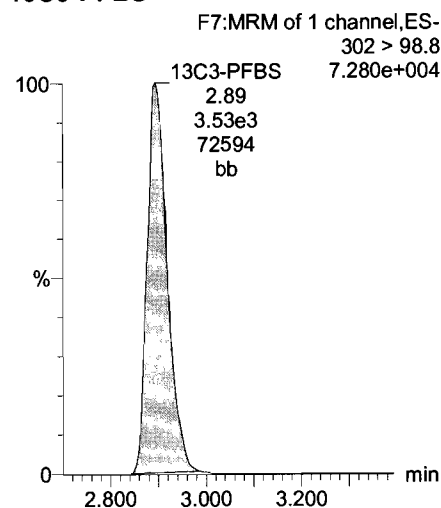
13C3-PFBA



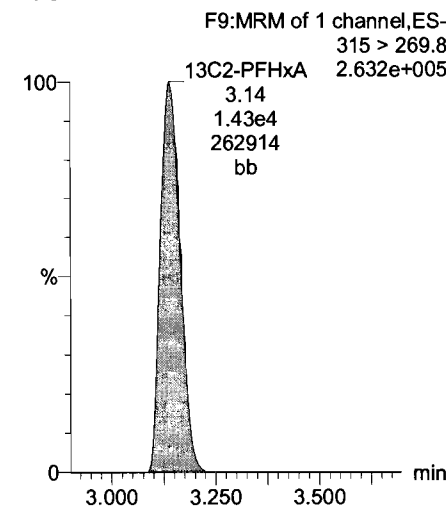
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



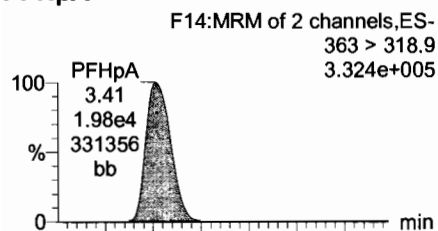
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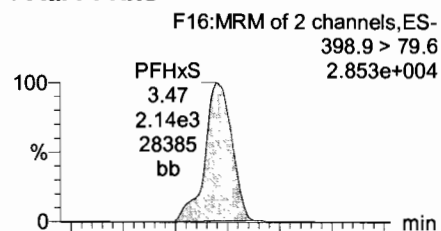
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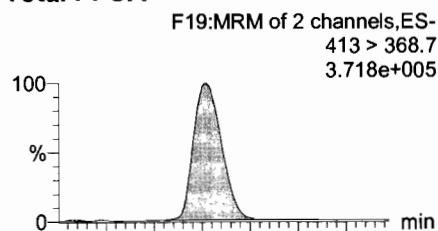
PFHpA



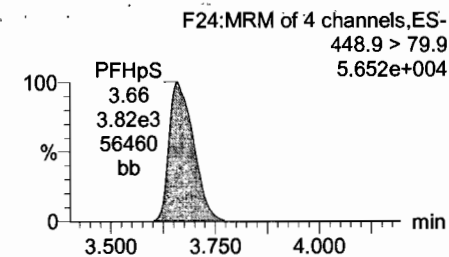
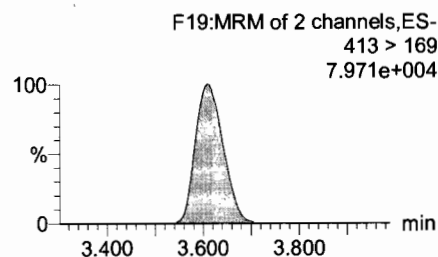
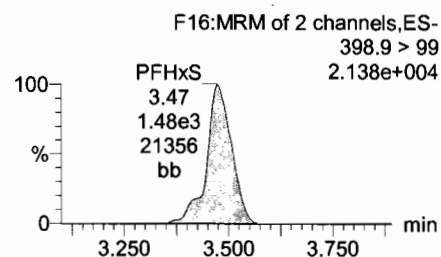
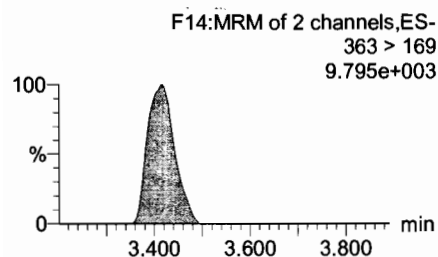
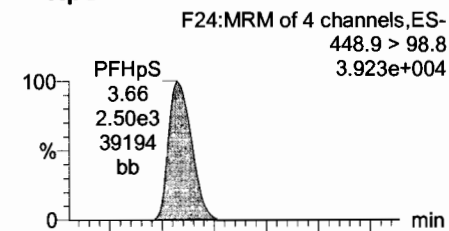
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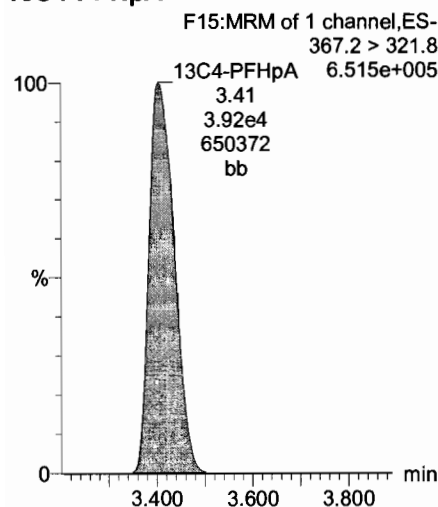
Total PFOA



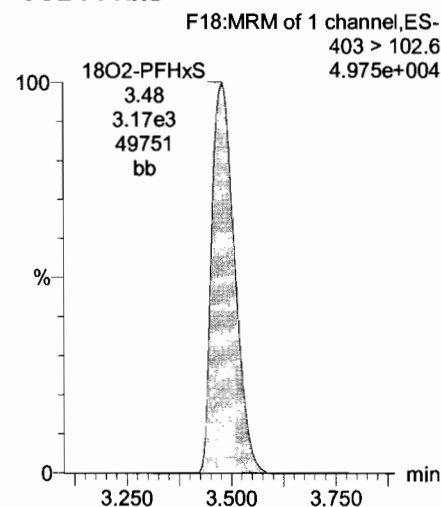
PFHpS



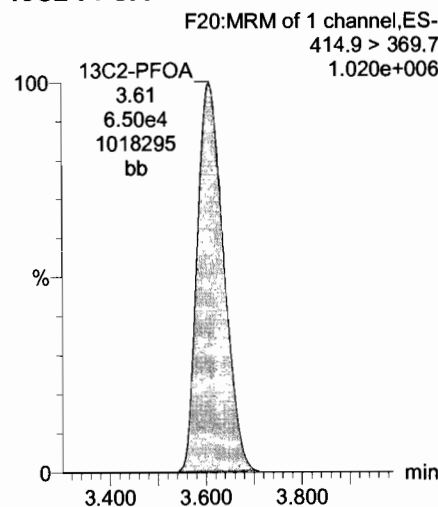
13C4-PFHpA



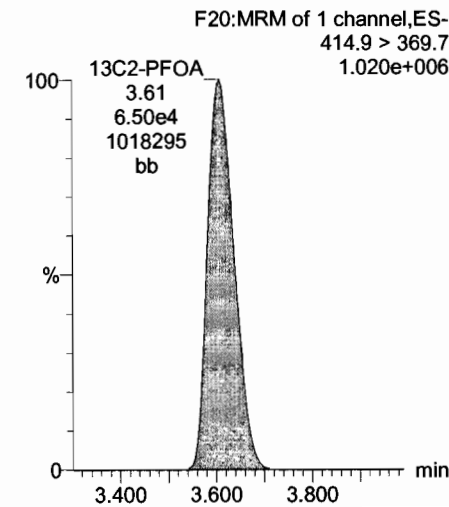
18O2-PFHxS



13C2-PFOA



13C2-PFOA



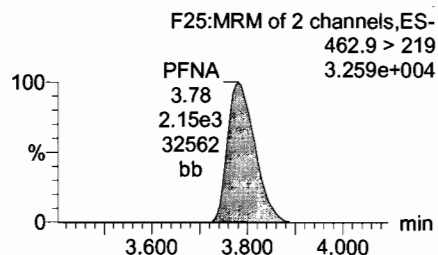
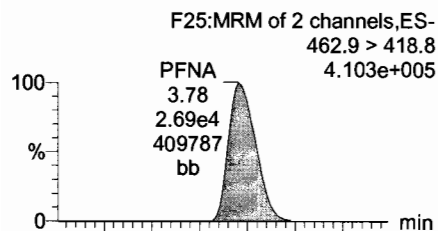
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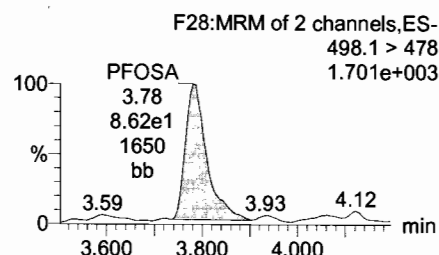
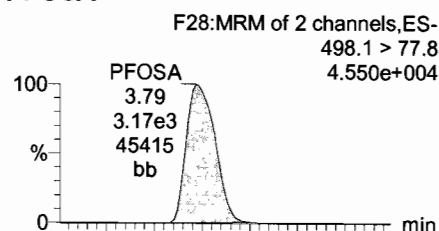
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Name: 170728M2_6, Date: 28-Jul-2017, Time: 17:03:36, ID: ST170728M2-5 PFC CS2 17G2828, Description: PFC CS2 17G2828

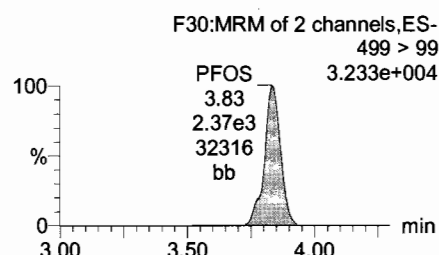
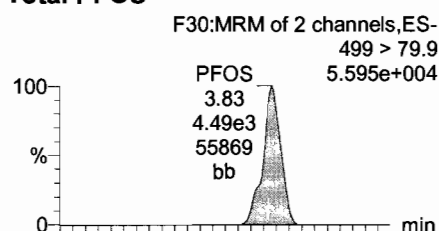
PFNA



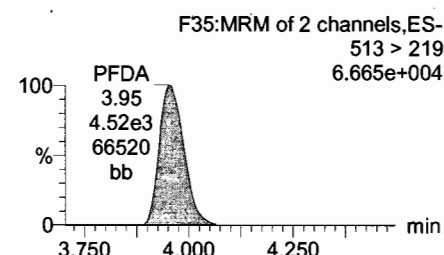
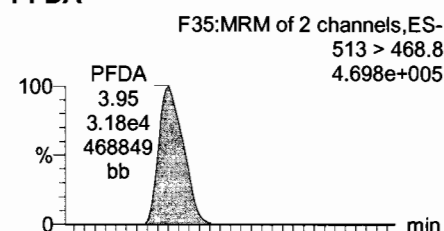
PFOSA



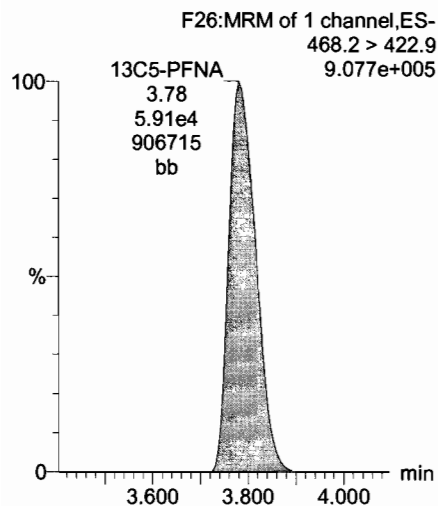
Total PFOS



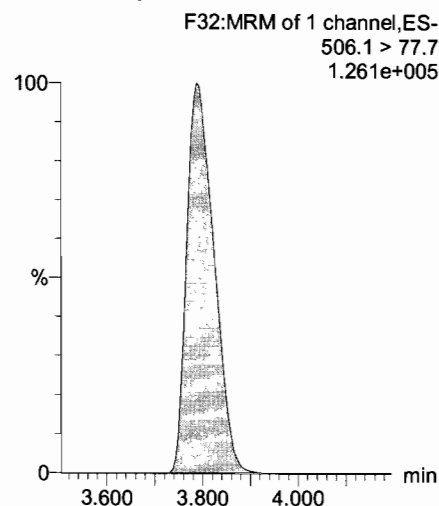
PFDA



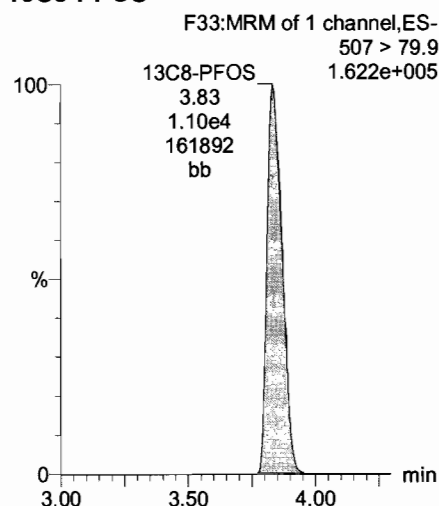
13C5-PFNA



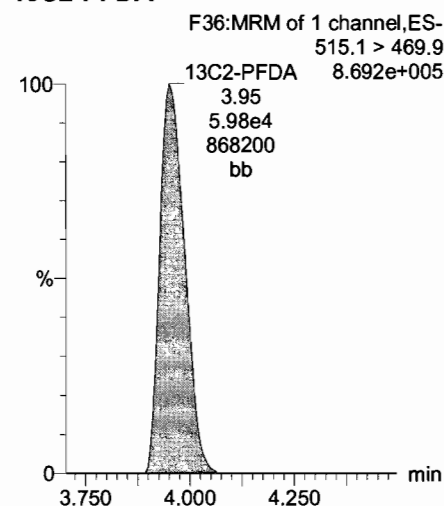
13C8-PFOSA



13C8-PFOS



13C2-PFDA



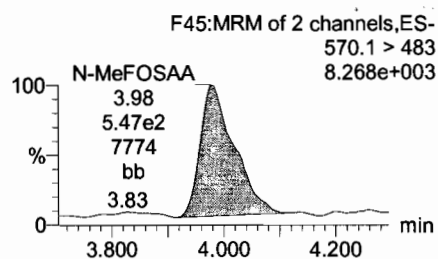
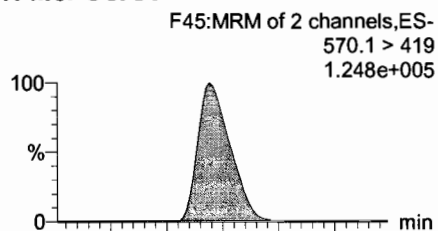
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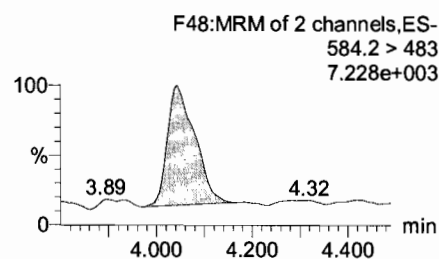
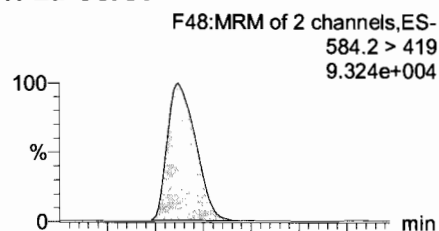
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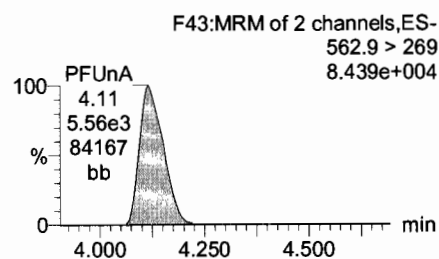
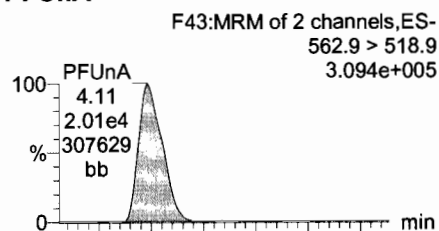
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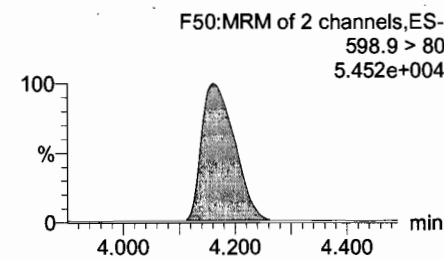
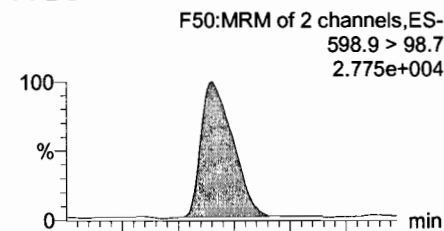
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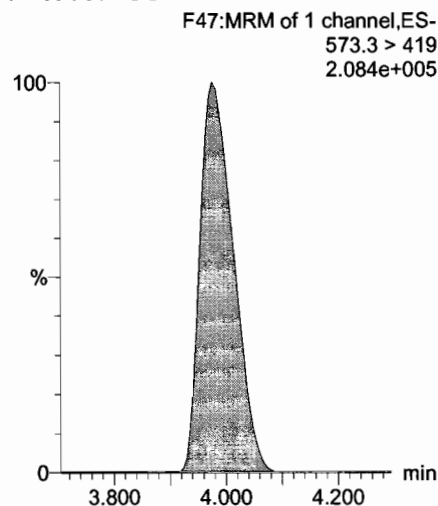
PFUnA



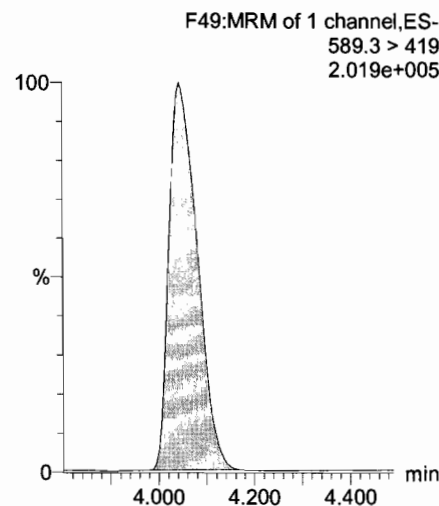
PFDS



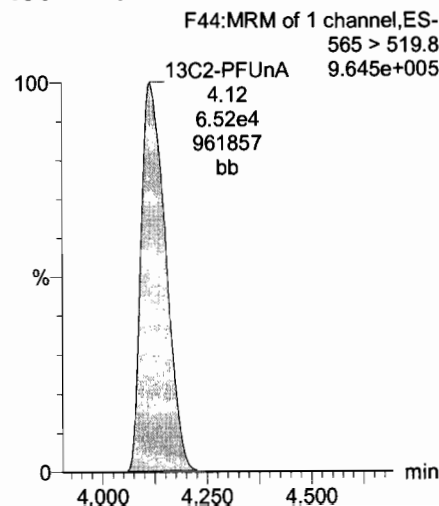
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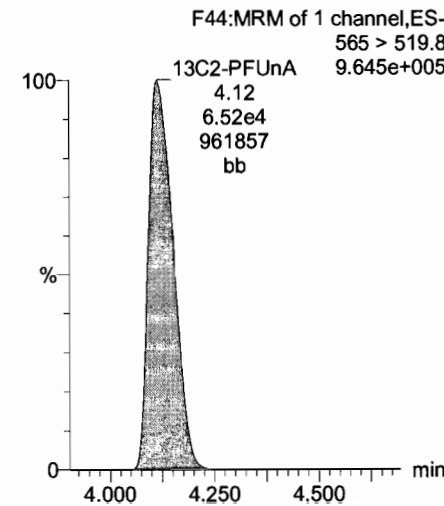
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



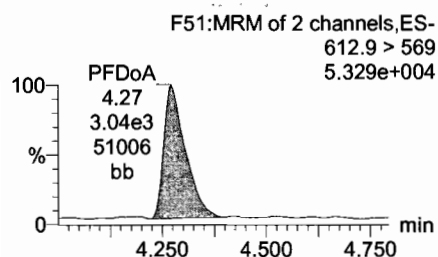
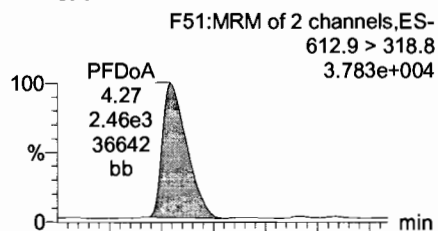
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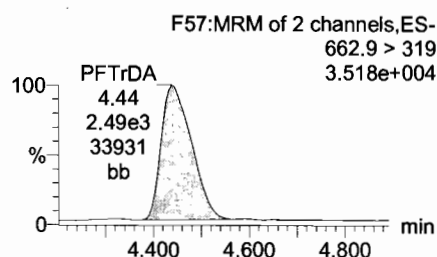
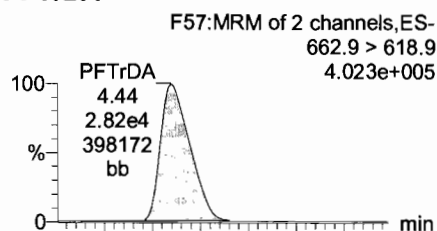
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Name: 170728M2_6, Date: 28-Jul-2017, Time: 17:03:36, ID: ST170728M2-5 PFC CS2 17G2828, Description: PFC CS2 17G2828

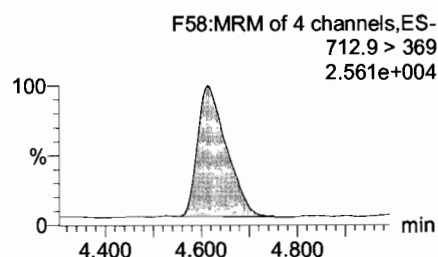
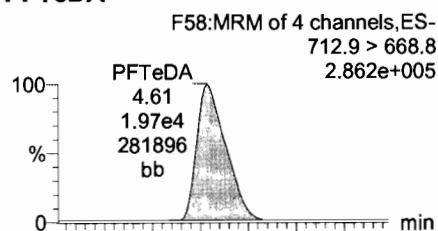
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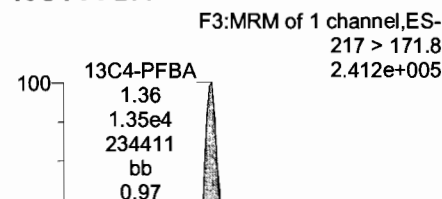
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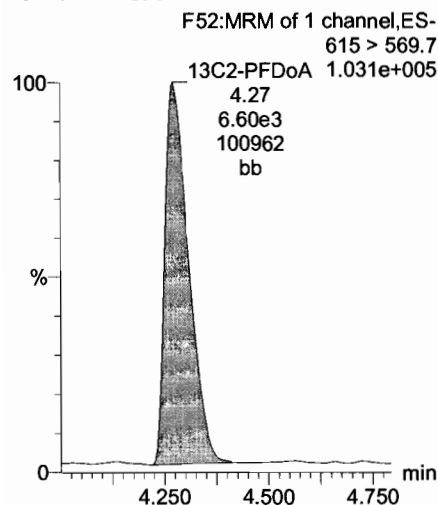
PFTeDA



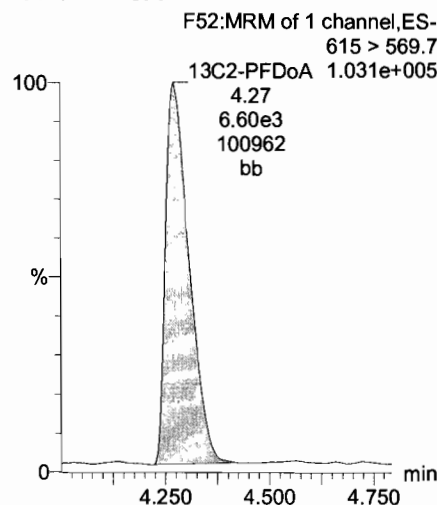
13C4-PFBA



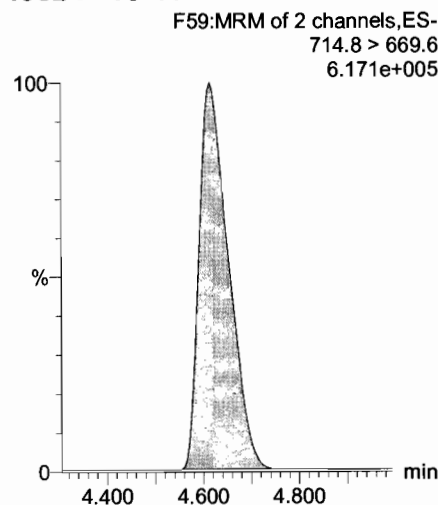
13C2-PFDDoA



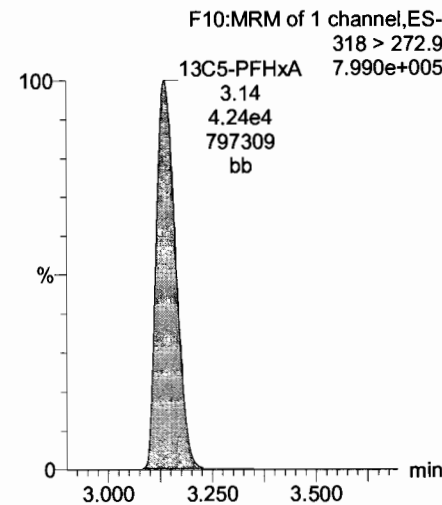
13C2-PFDDoA



13C2-PFTeDA



13C5-PFHxA



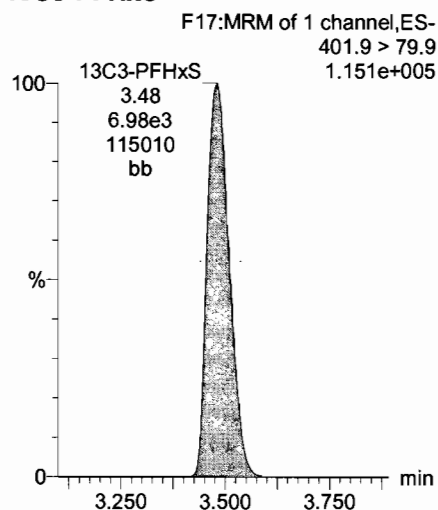
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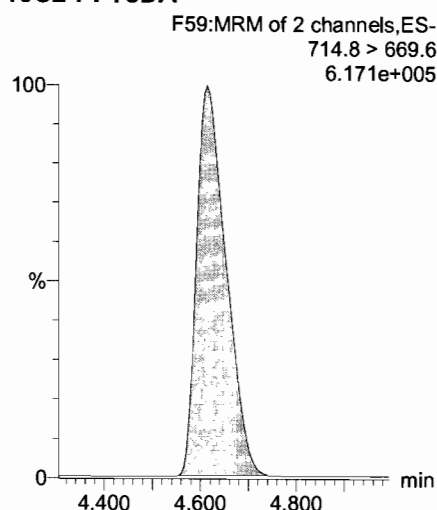
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Name: 170728M2_6, Date: 28-Jul-2017, Time: 17:03:36, ID: ST170728M2-5 PFC CS2 17G2828, Description: PFC CS2 17G2828

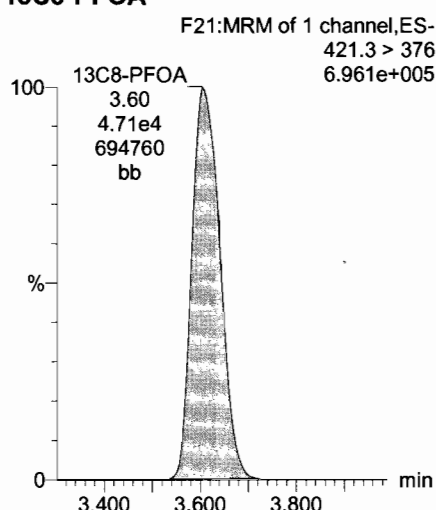
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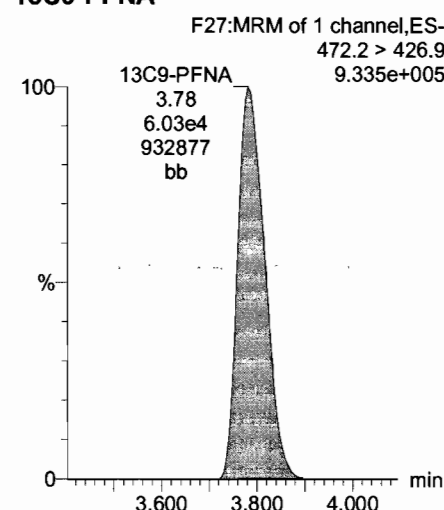
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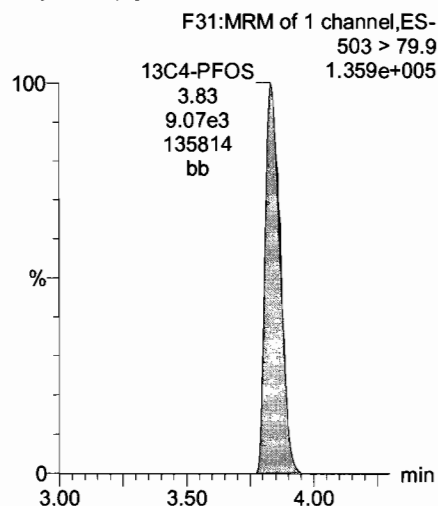
13C8-PFOA



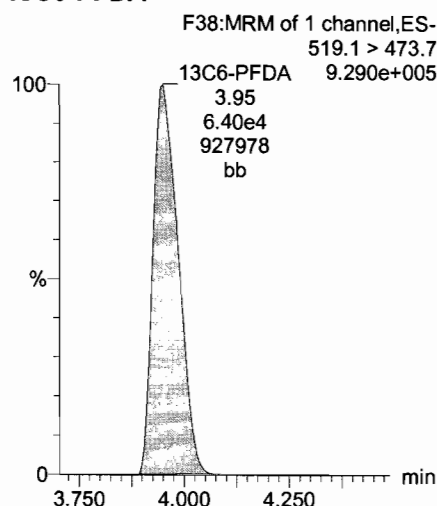
13C9-PFNA



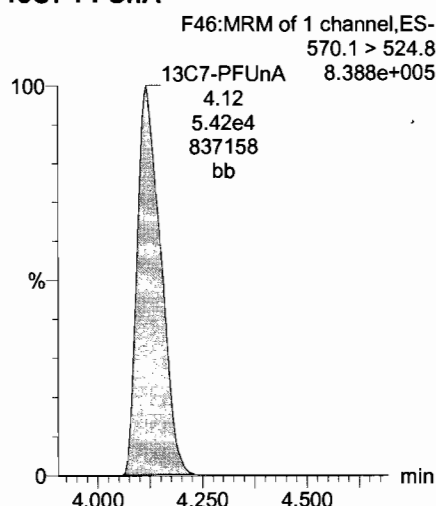
13C4-PFOS



13C6-PFDA



13C7-PFUnA



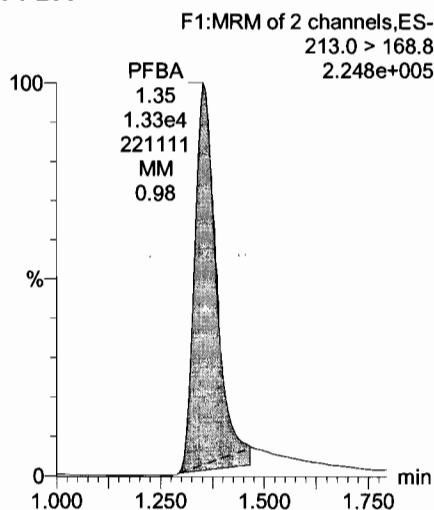
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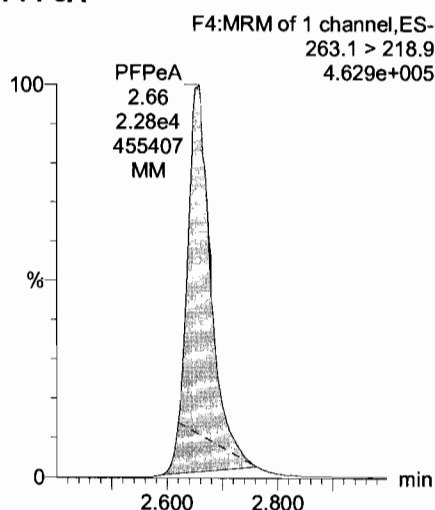
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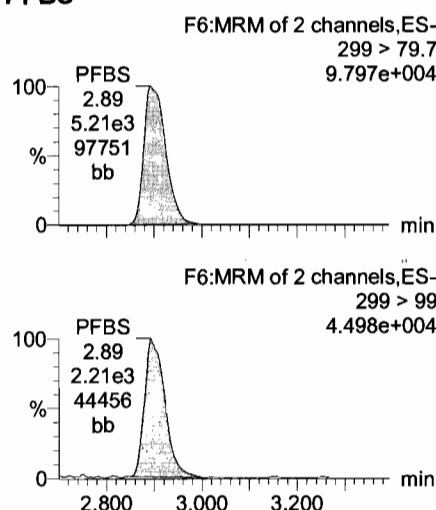
PFBA



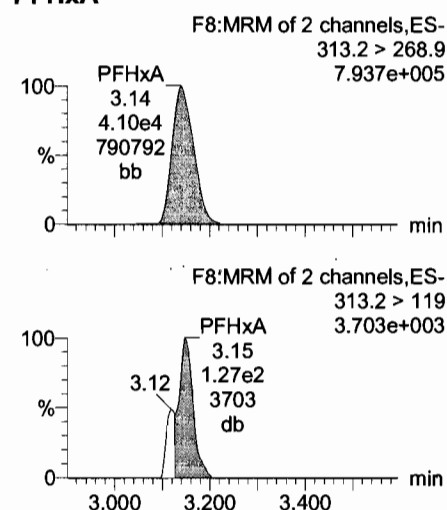
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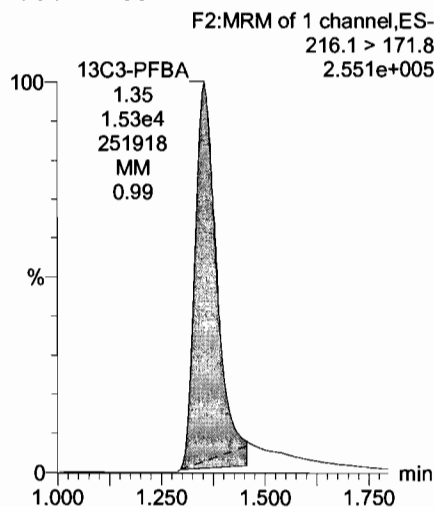
PFBS



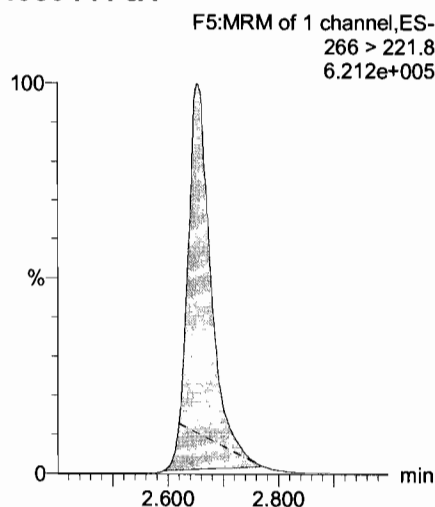
PFHxA



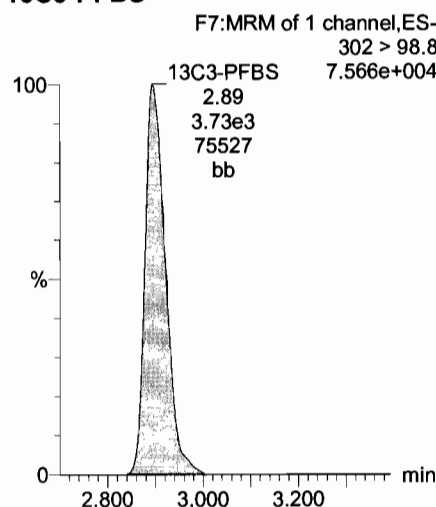
13C3-PFBA



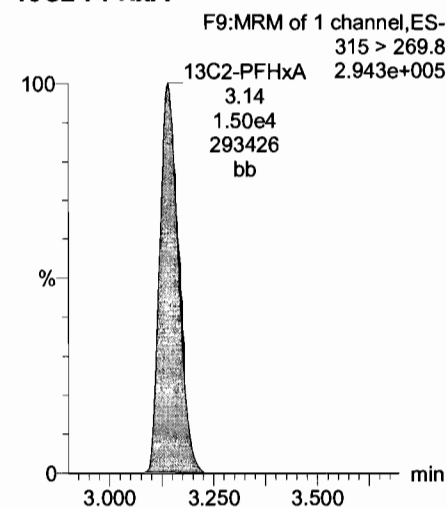
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13C3-PFBS



13C2-PFHxA



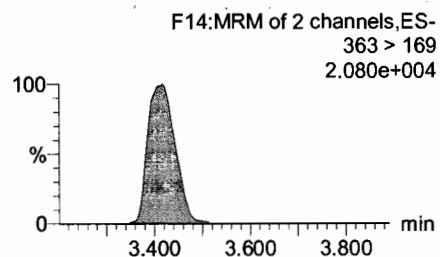
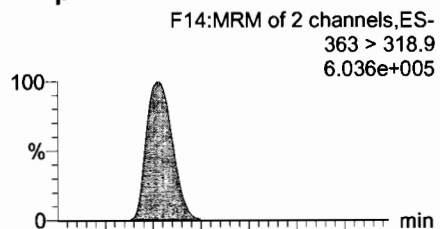
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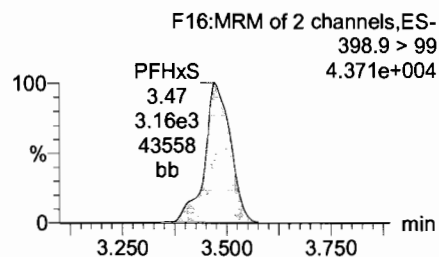
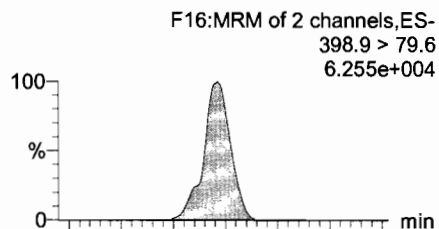
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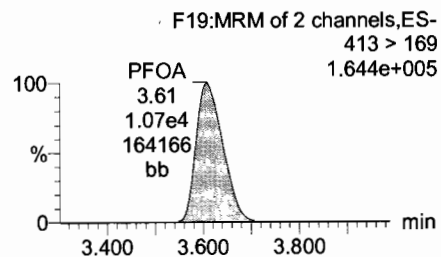
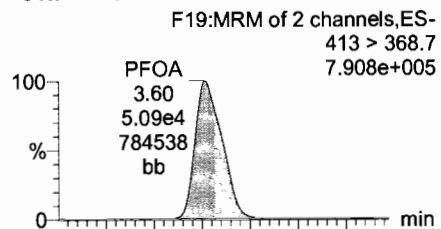
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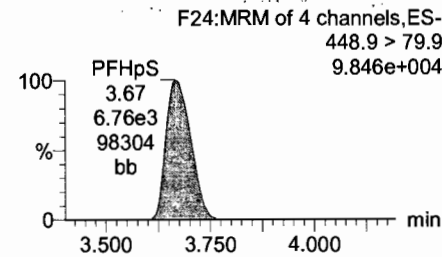
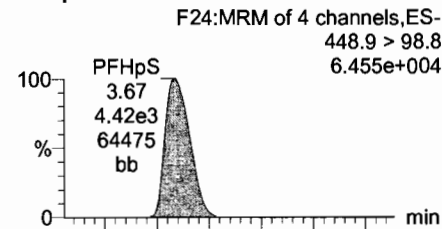
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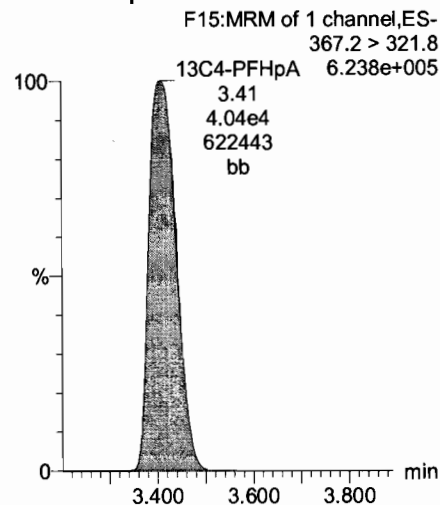
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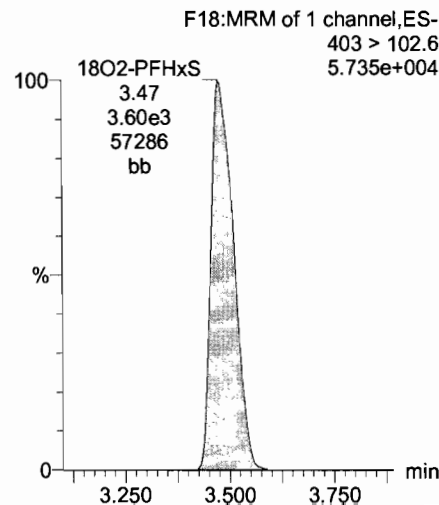
PFHpS



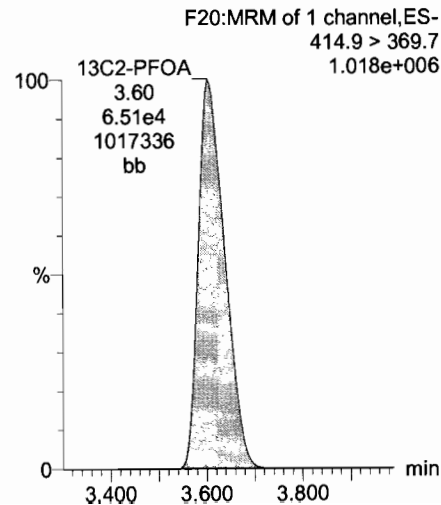
13C4-PFHpA



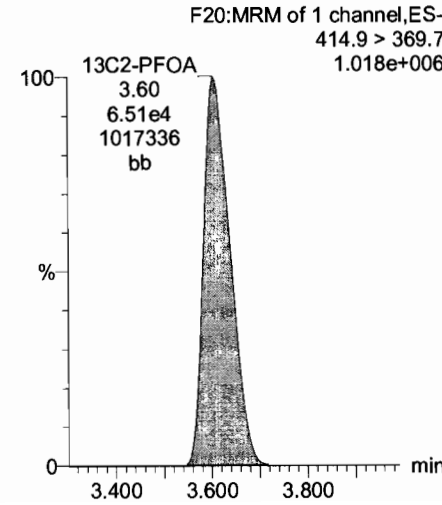
18O2-PFHxS



13C2-PFOA



13C2-PFOA



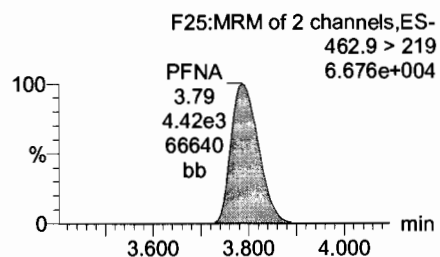
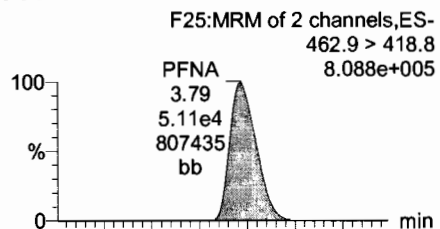
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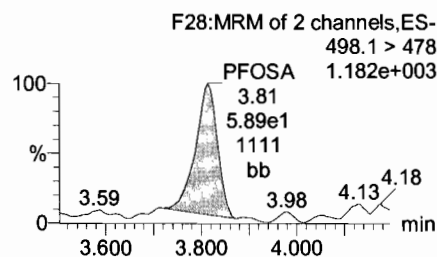
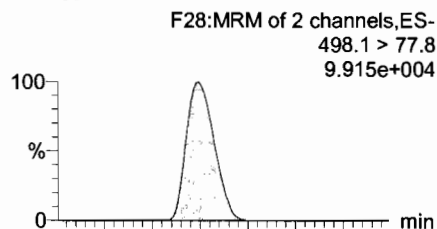
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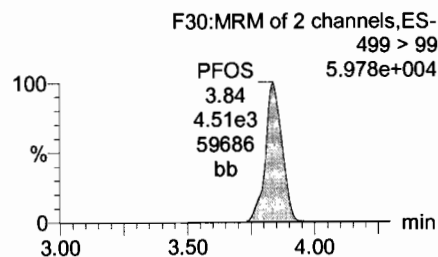
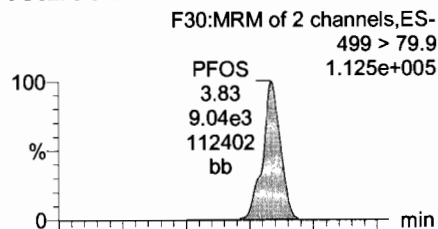
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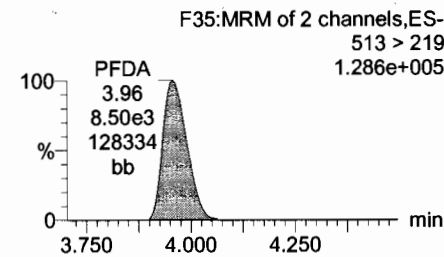
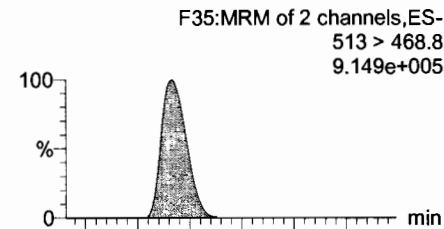
PFOSA



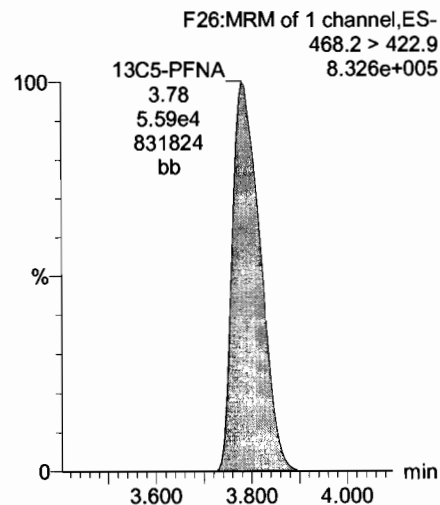
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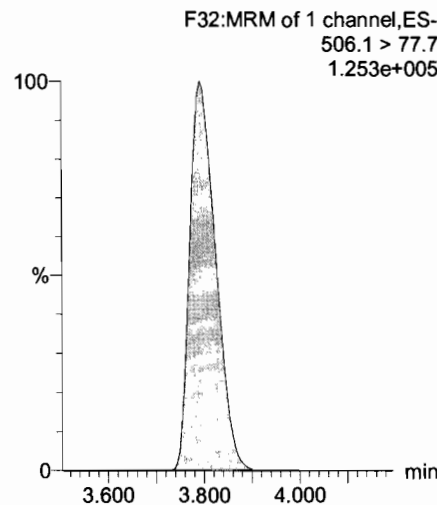
PFDA



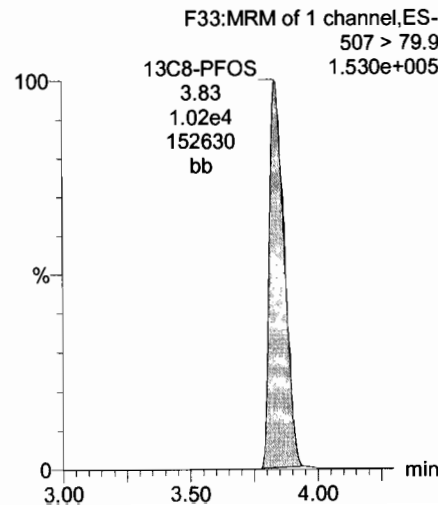
13C5-PFNA



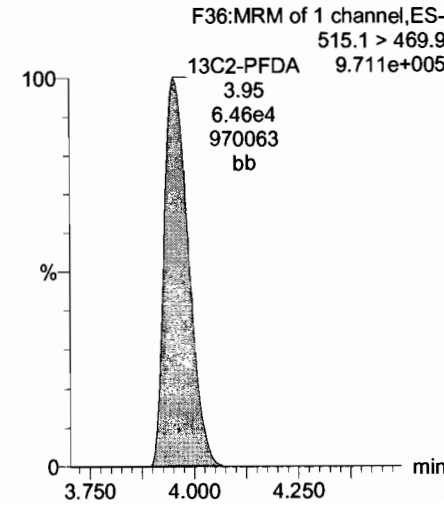
13C8-PFOSA



13C8-PFOS



13C2-PFDA



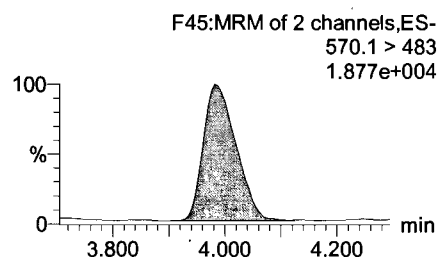
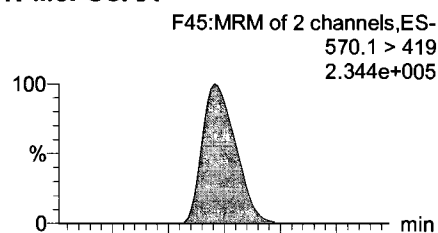
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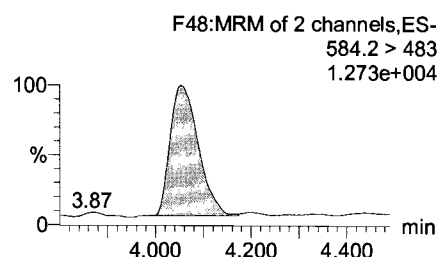
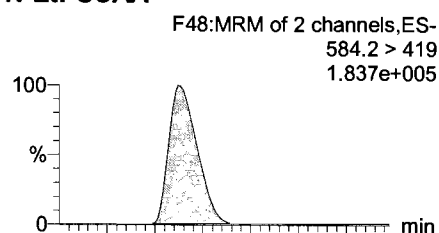
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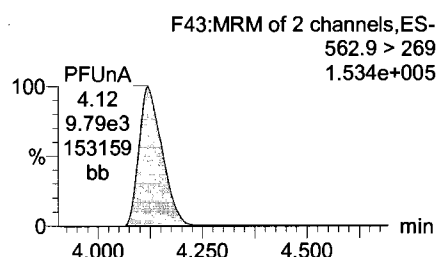
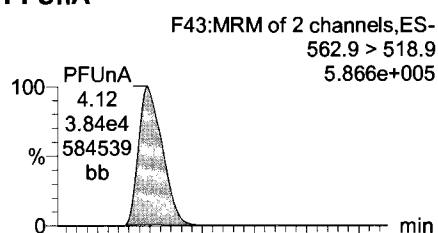
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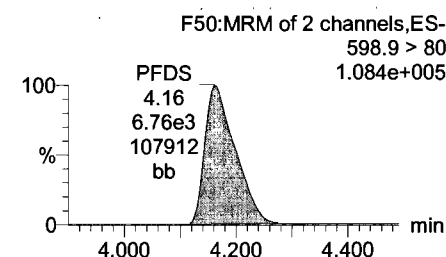
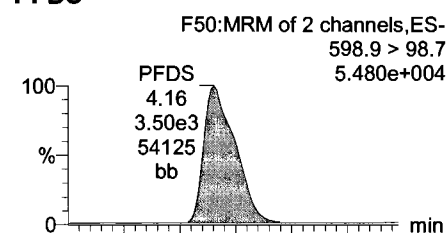
N-EtFOSAA



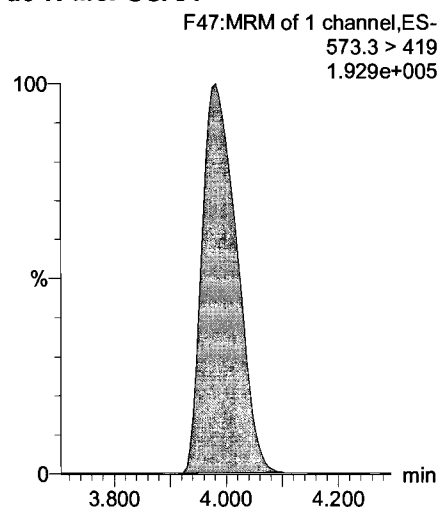
PFUnA



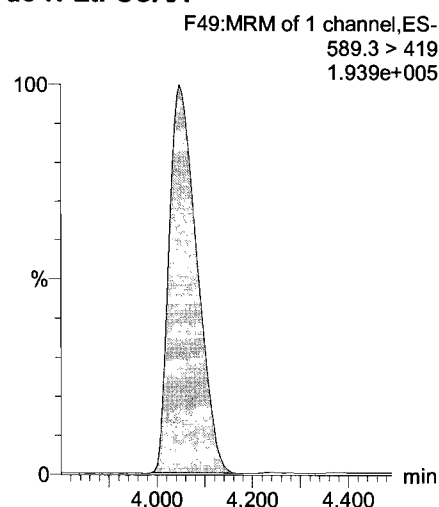
PFDS



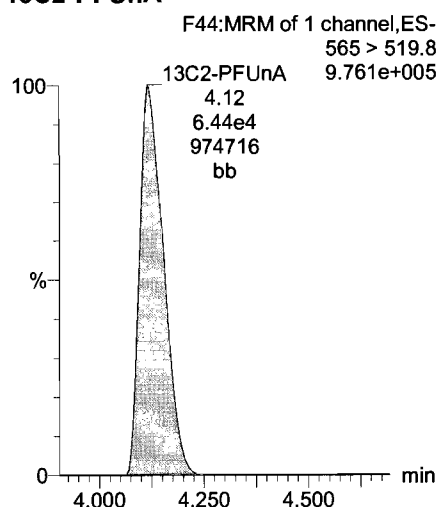
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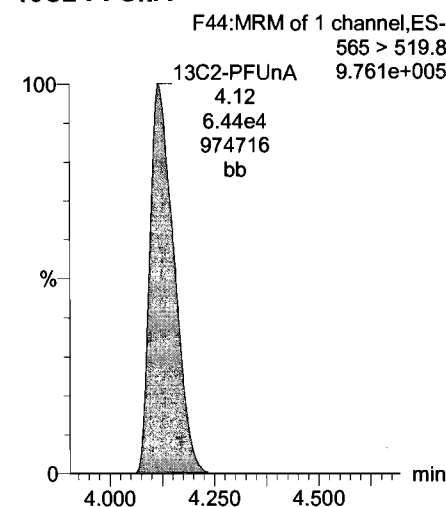
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13C2-PFUnA



13C2-PFUnA



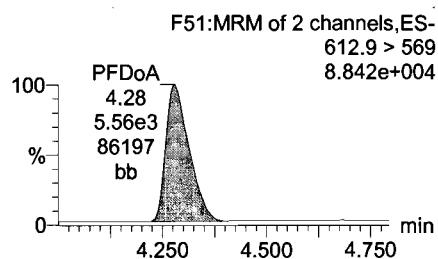
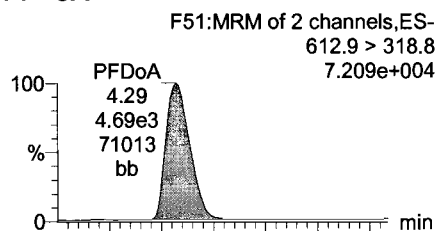
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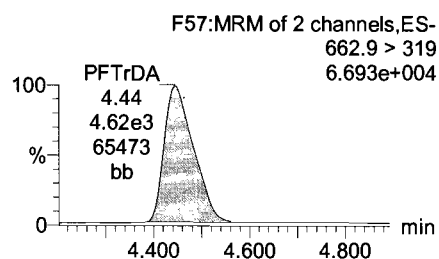
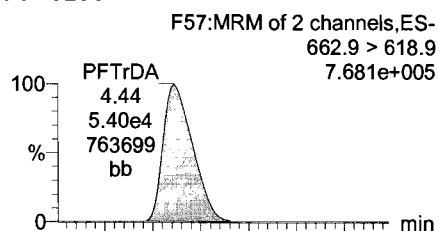
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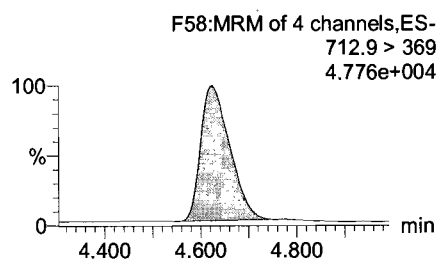
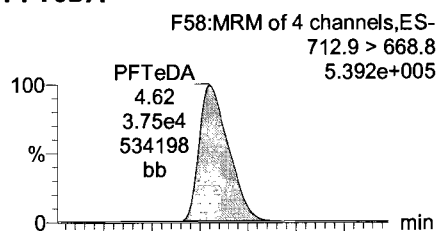
PFD_oA



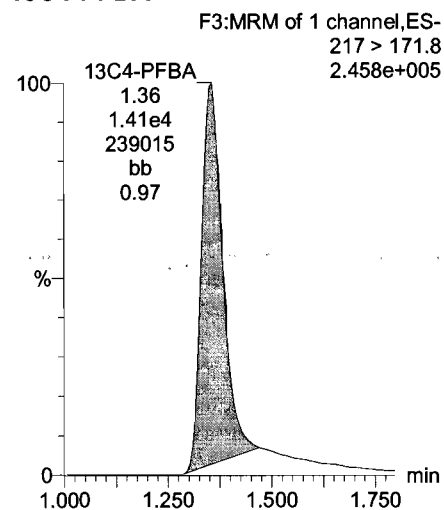
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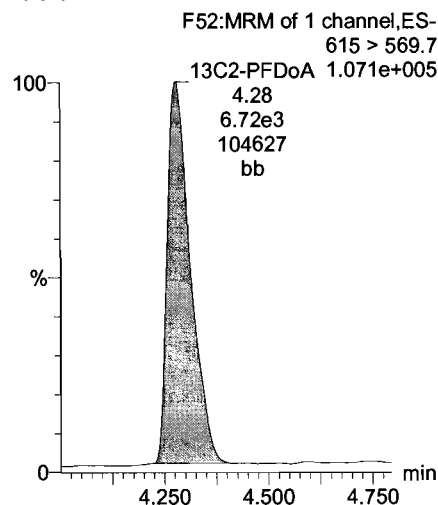
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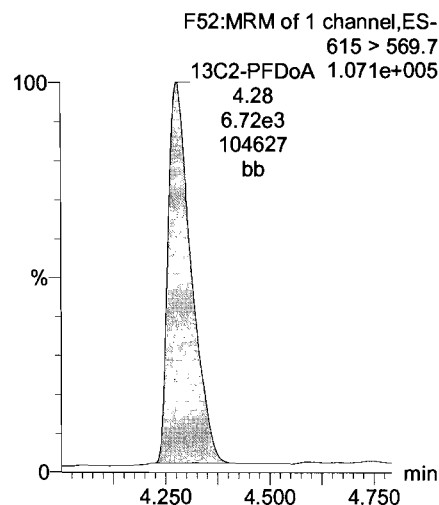
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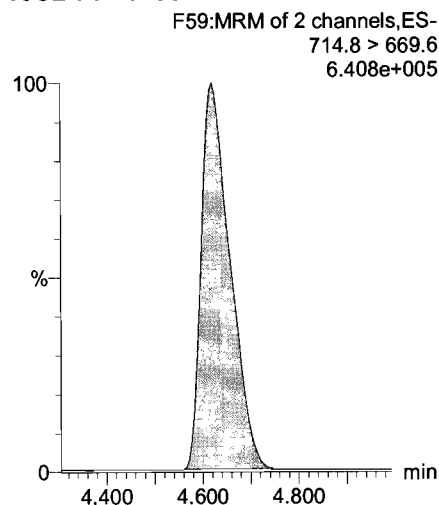
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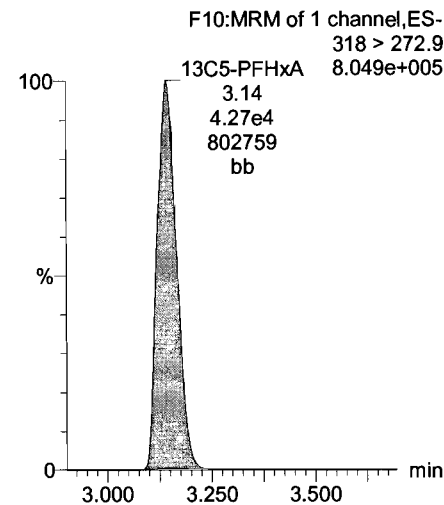
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13C₂-PFT_eDA



13C₅-PFHxA



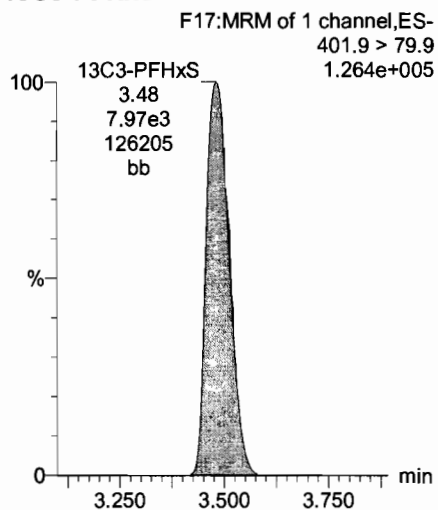
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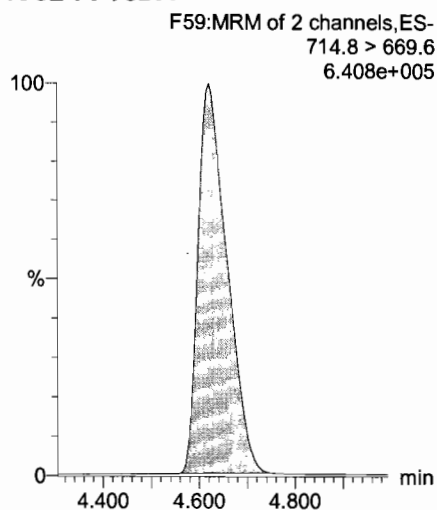
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Name: 170728M2_7, Date: 28-Jul-2017, Time: 17:14:14, ID: ST170728M2-6 PFC CS3 17G2829, Description: PFC CS3 17G2829

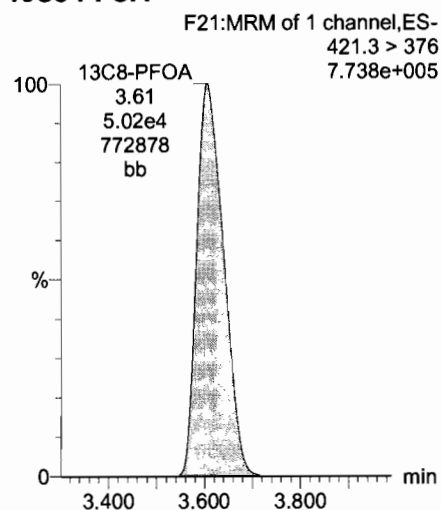
13C3-PFHxS



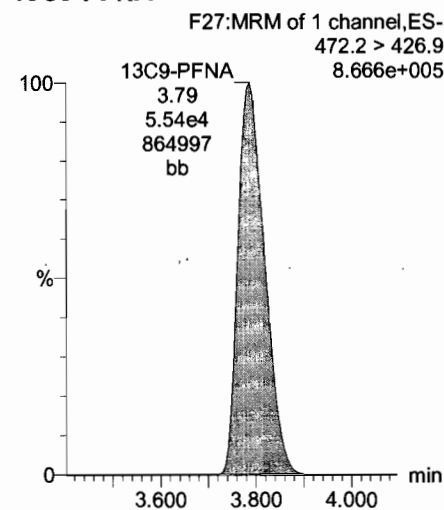
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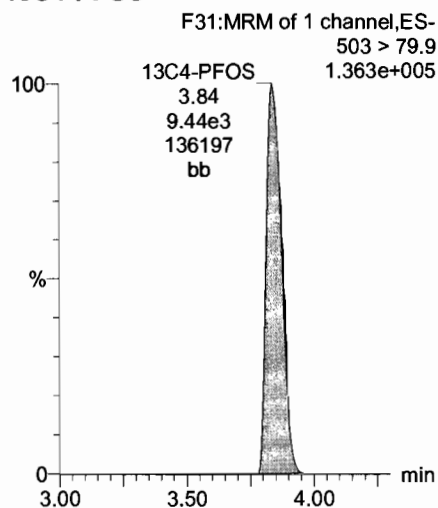
13C8-PFOA



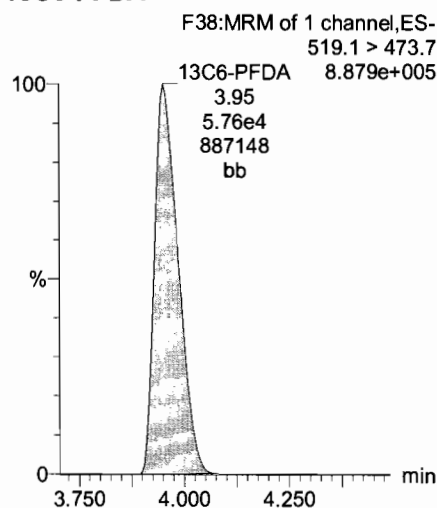
13C9-PFNA



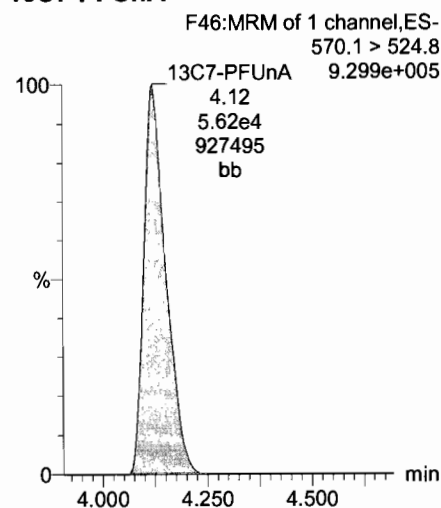
13C4-PFOS



13C6-PFDA



13C7-PFUnA



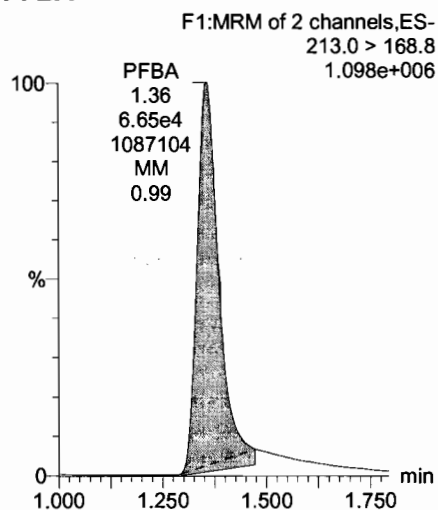
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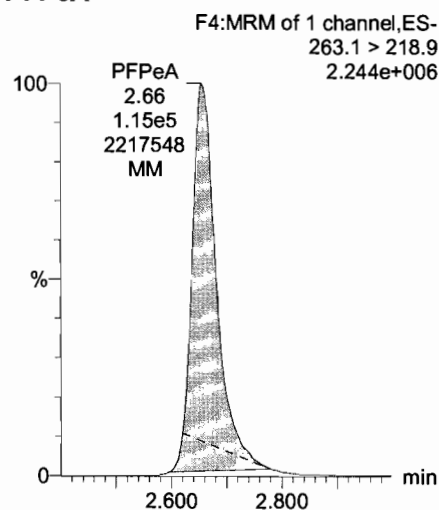
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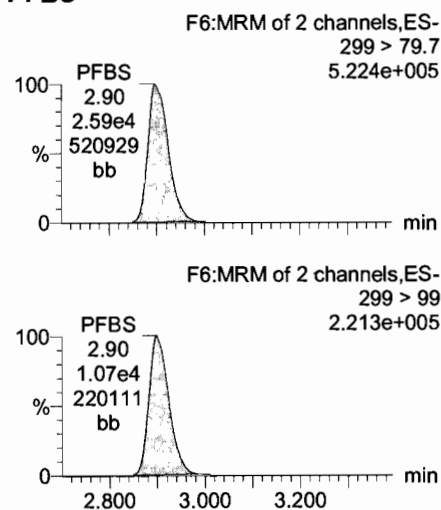
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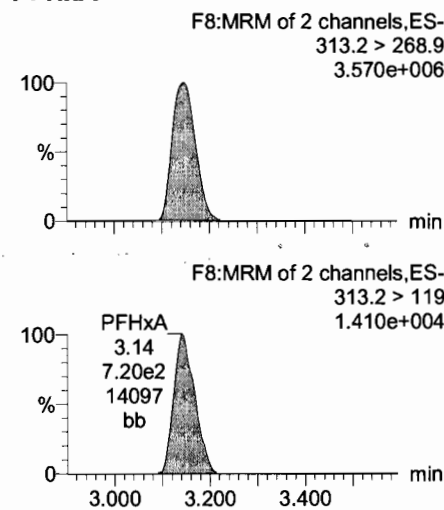
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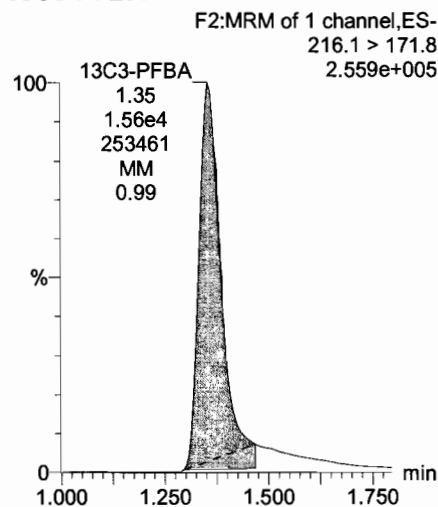
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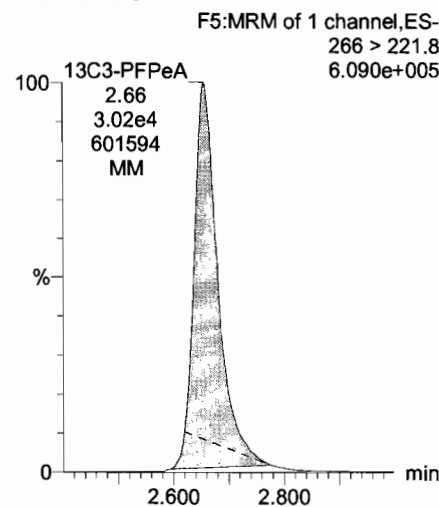
PFHxA



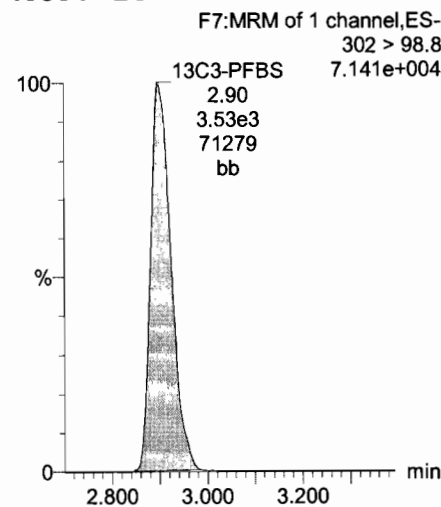
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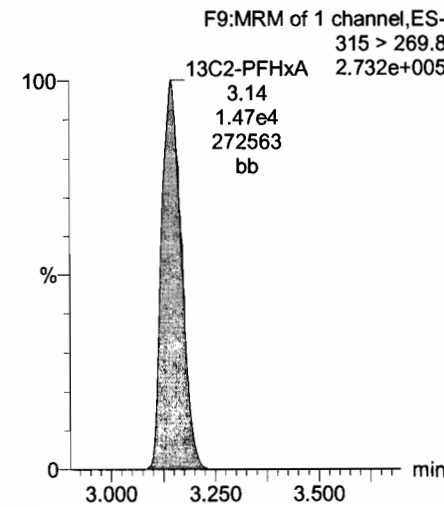
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13C3-PFBS



13C2-PFHxA



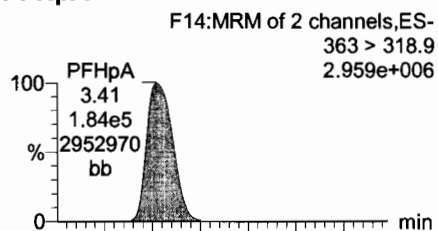
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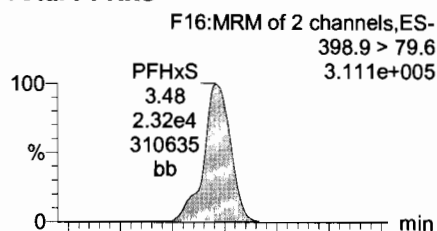
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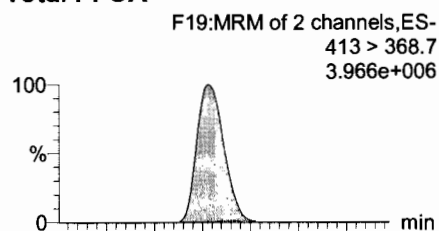
PFHpA



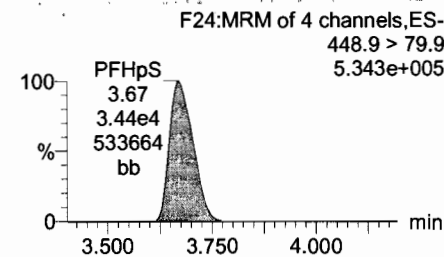
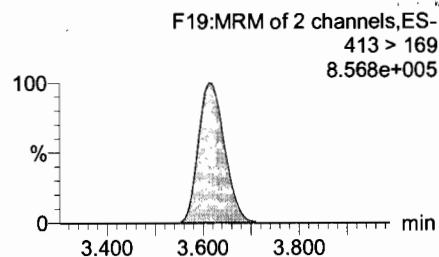
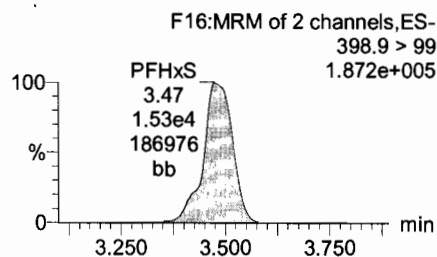
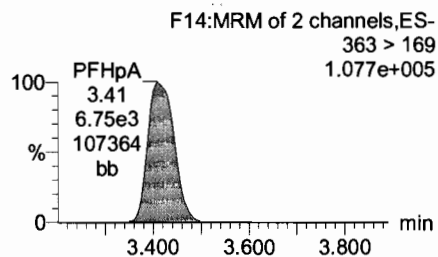
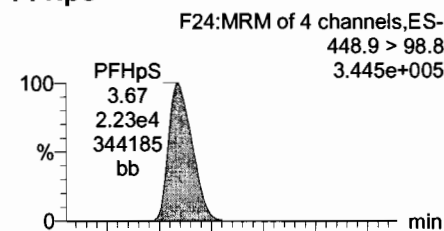
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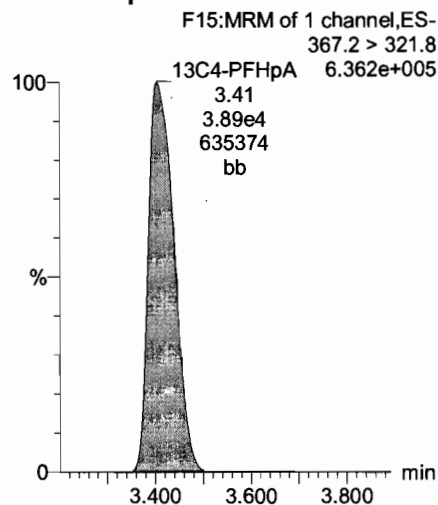
Total PFOA



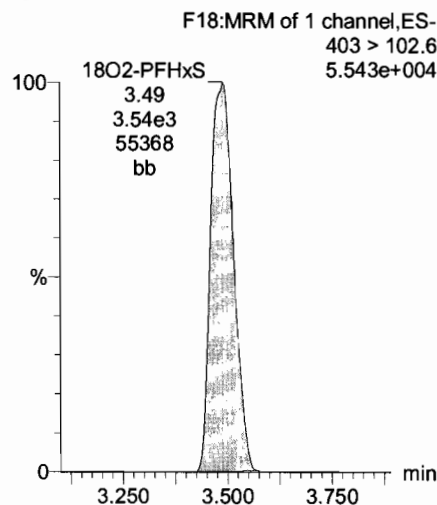
PFHpS



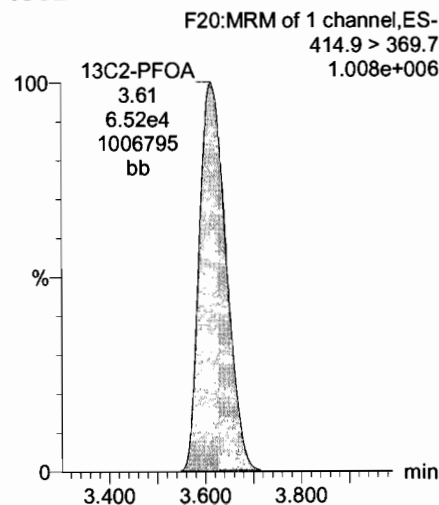
13C4-PFHpA



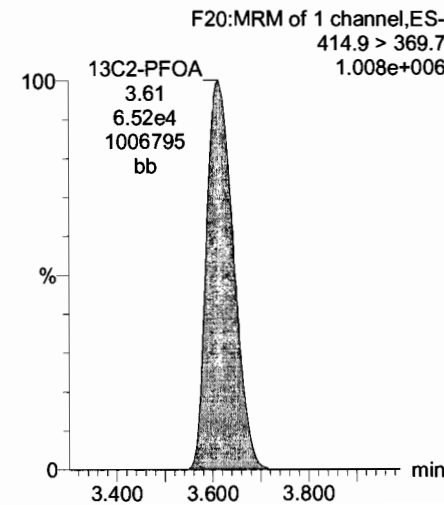
18O2-PFHxS



13C2-PFOA



13C2-PFOA



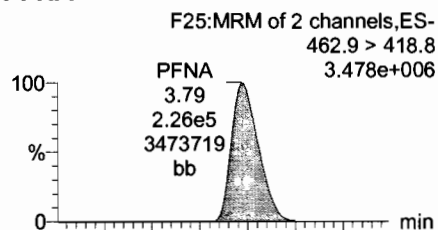
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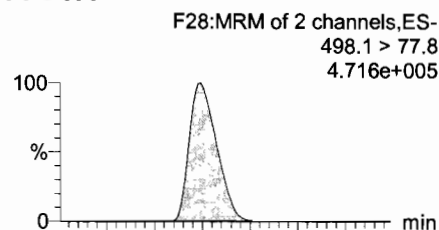
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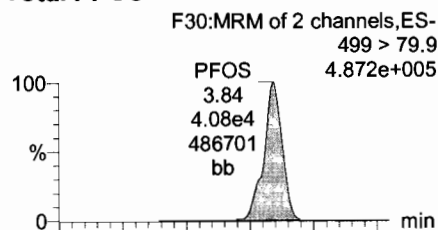
PFNA



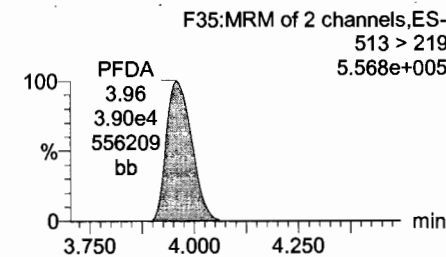
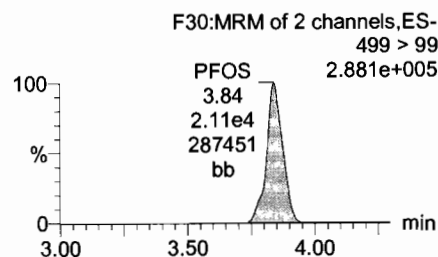
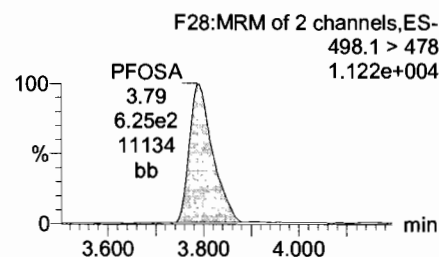
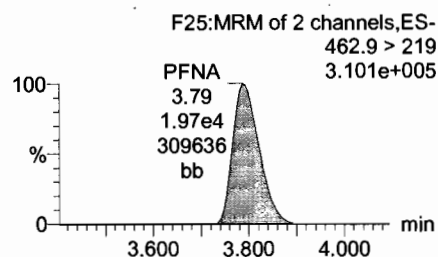
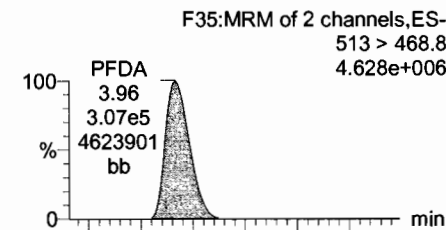
PFOSA



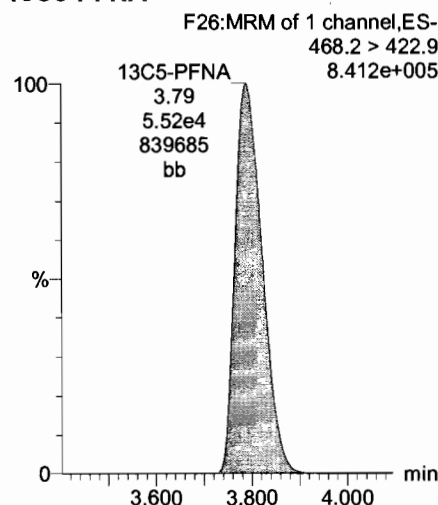
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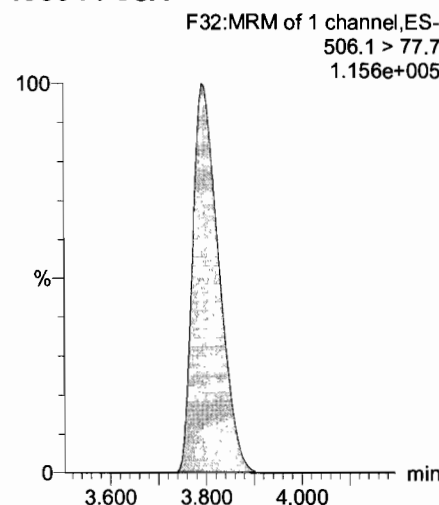
PFDA



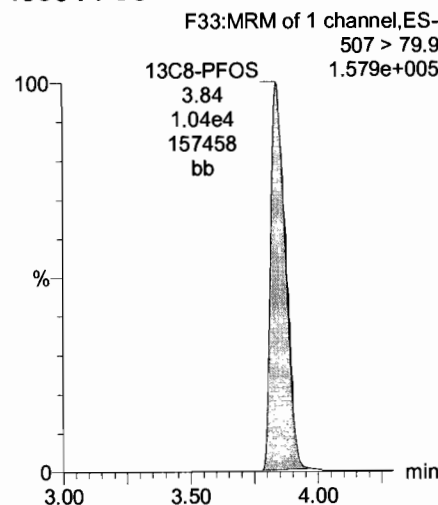
13C5-PFNA



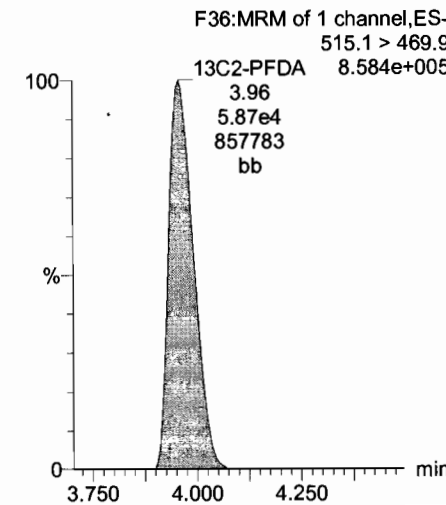
13C8-PFOSA



13C8-PFOS



13C2-PFDA



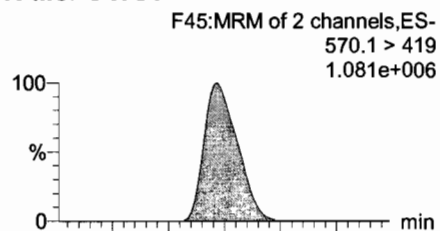
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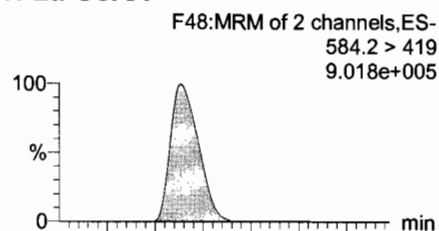
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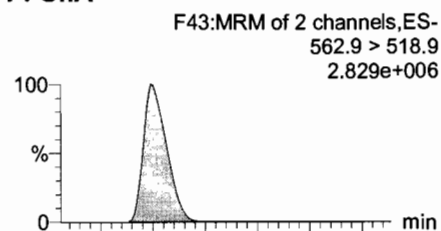
N-MeFOSAA



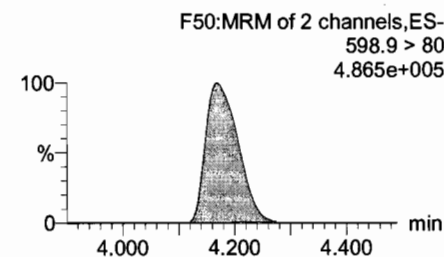
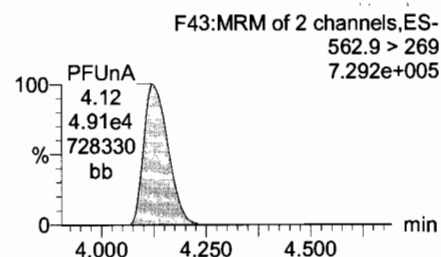
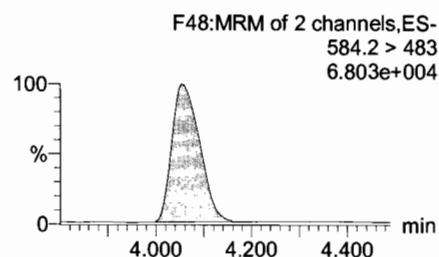
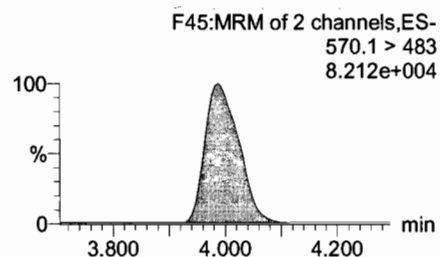
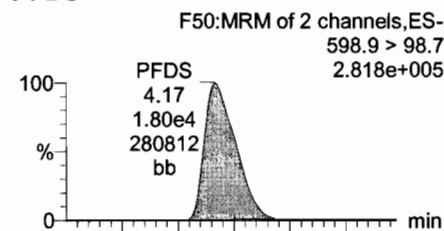
N-EtFOSAA



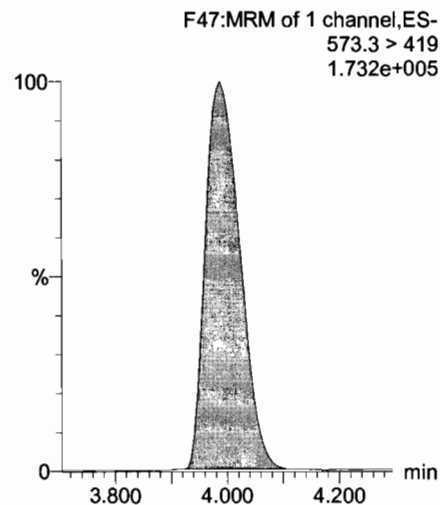
PFUnA



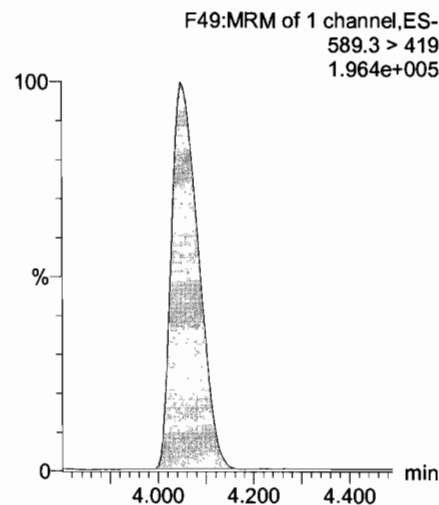
PFDS



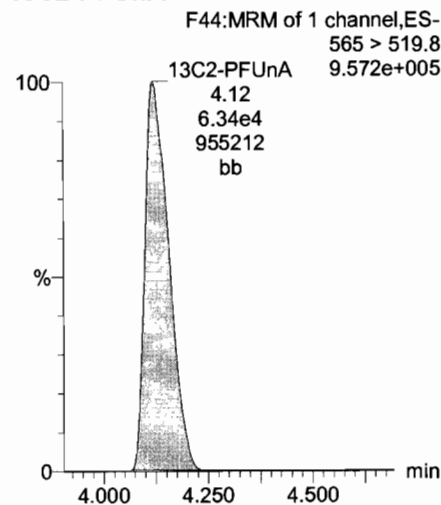
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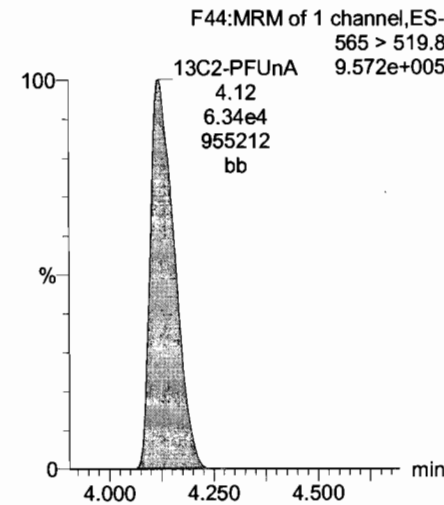
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13C2-PFUnA



13C2-PFUnA



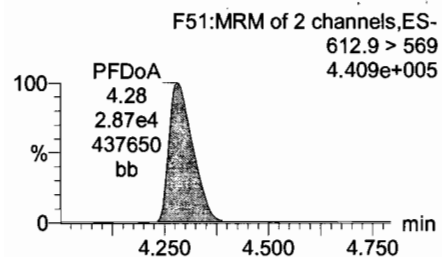
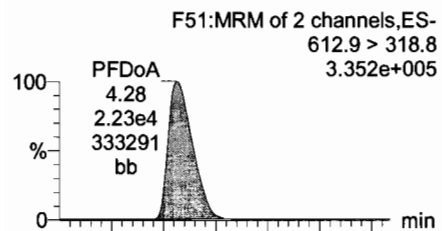
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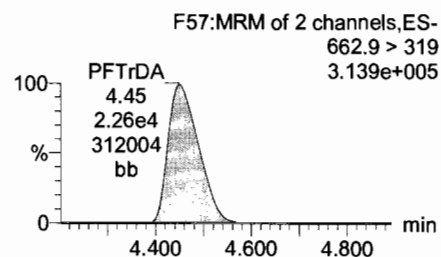
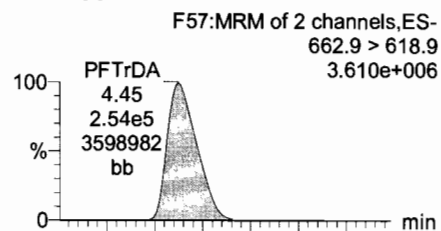
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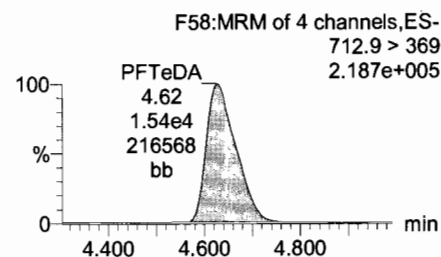
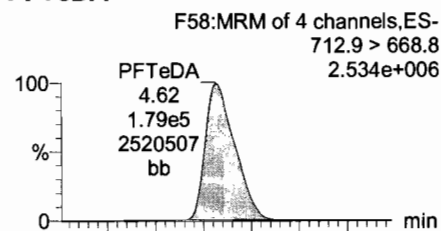
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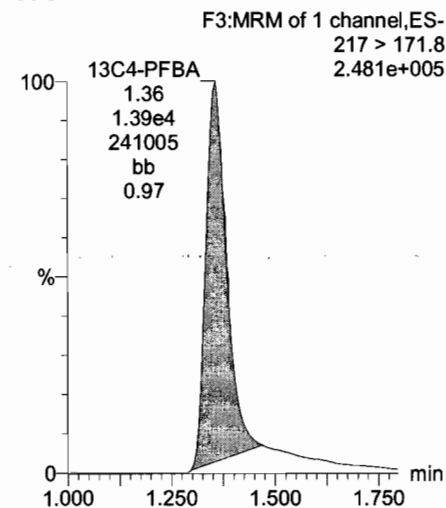
PFT_rDA



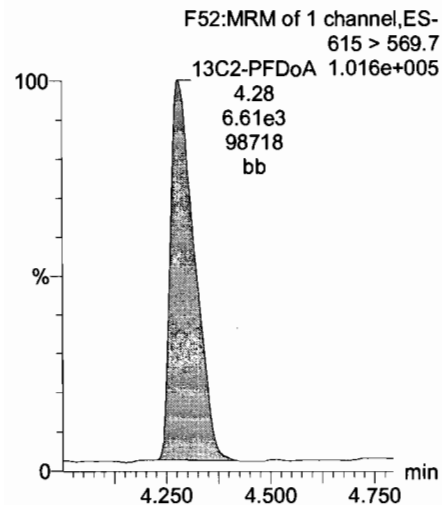
PFT_eDA



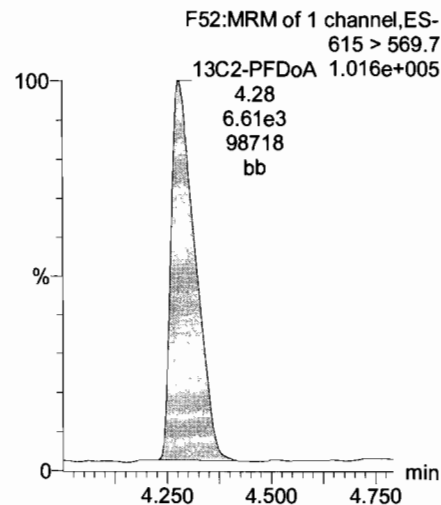
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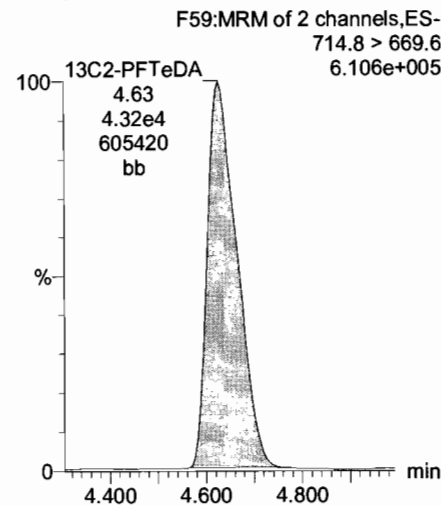
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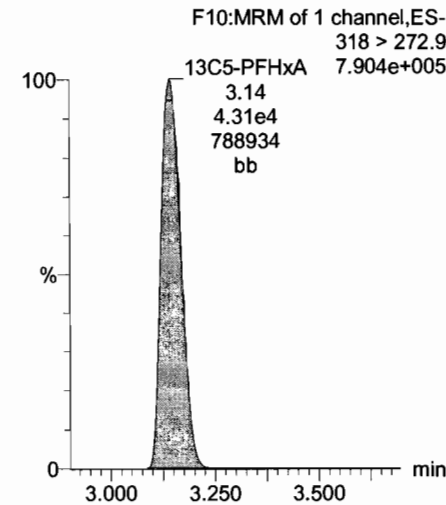
¹³C2-PFD_oA



¹³C2-PFT_eDA



¹³C5-PFH_xA



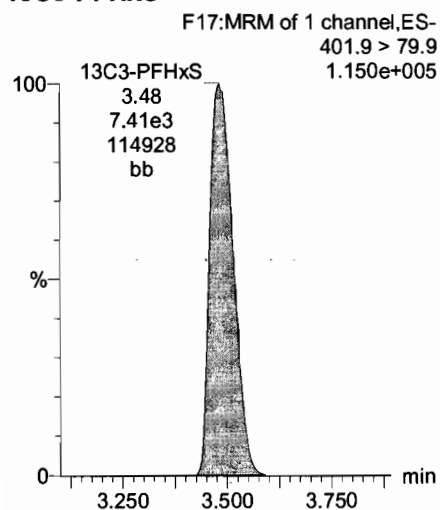
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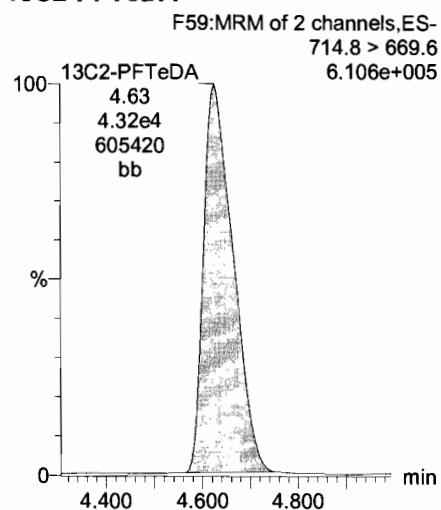
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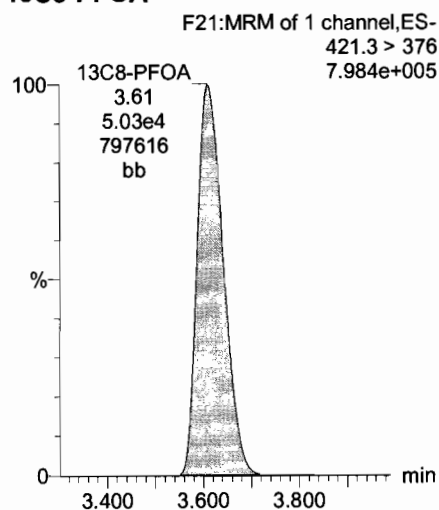
13C3-PFHxS



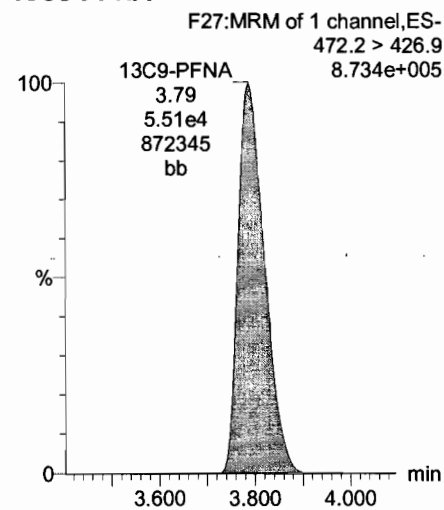
13C2-PFTeDA



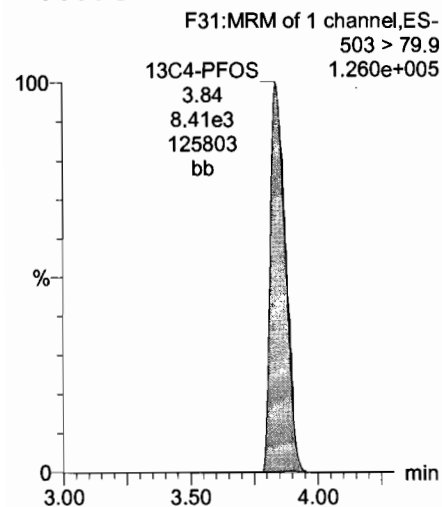
13C8-PFOA



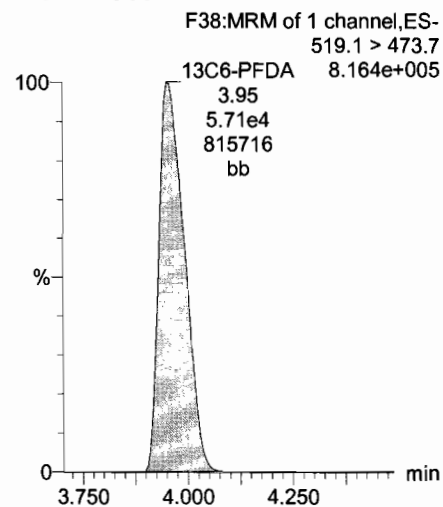
13C9-PFNA



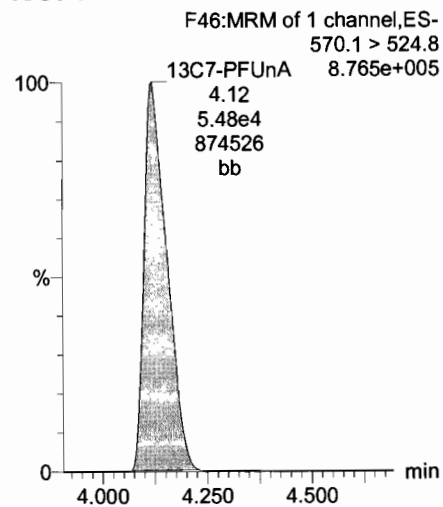
13C4-PFOS



13C6-PFDA



13C7-PFUnA



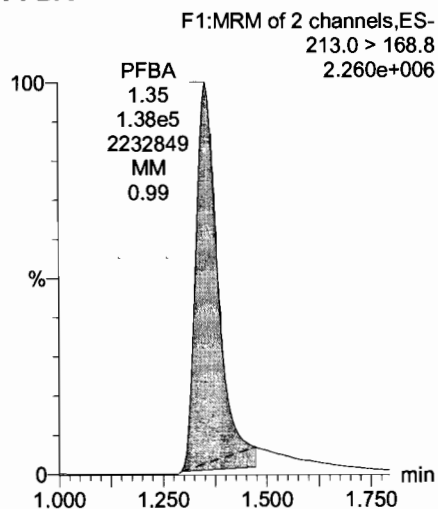
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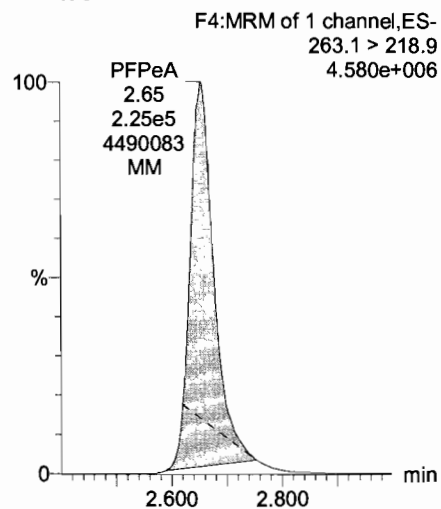
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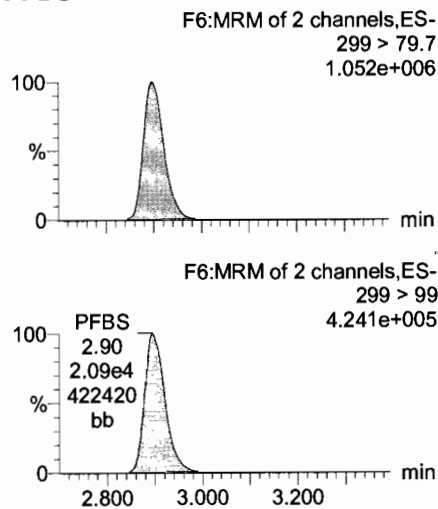
PFBA



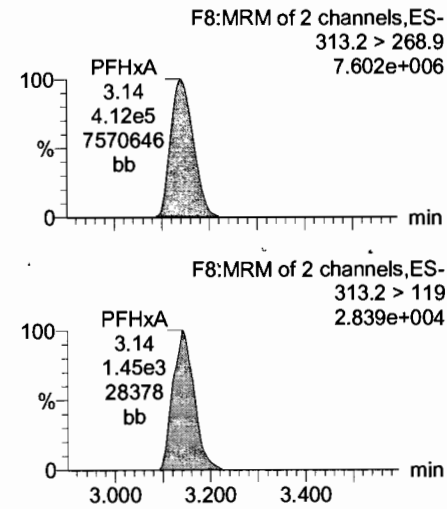
PFPeA



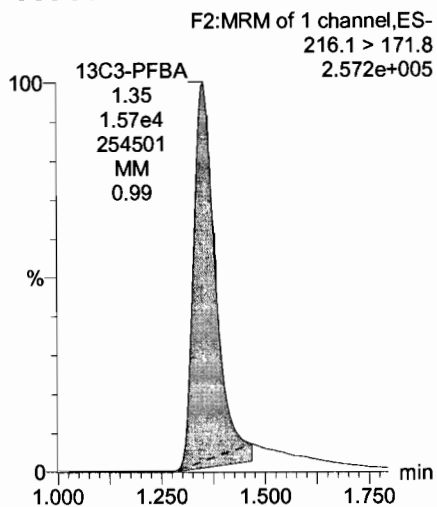
PFBS



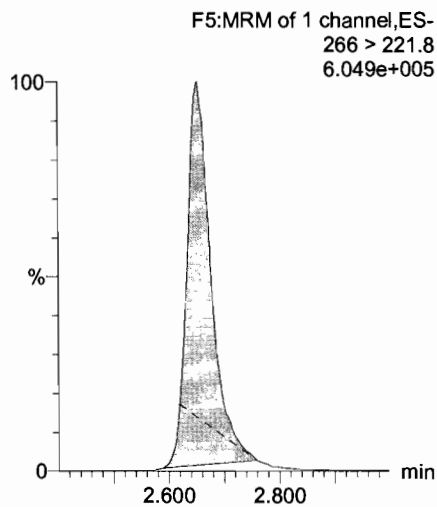
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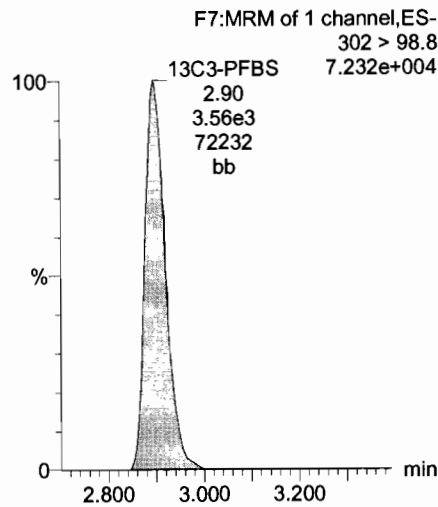
13C3-PFBA



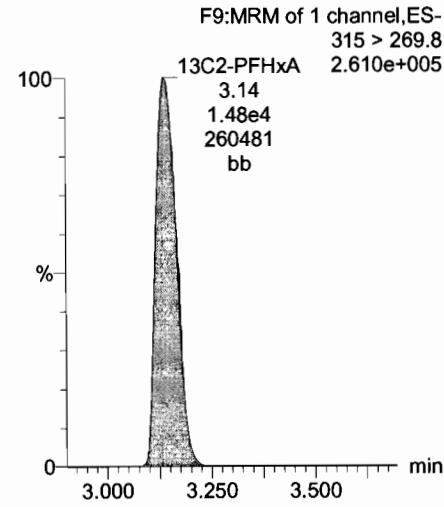
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



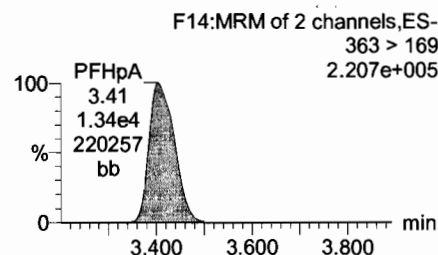
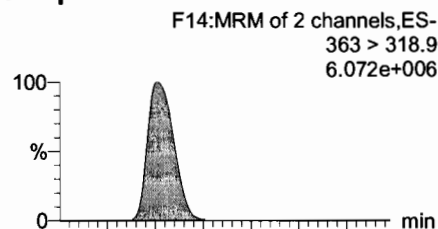
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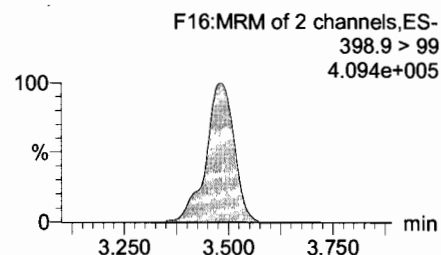
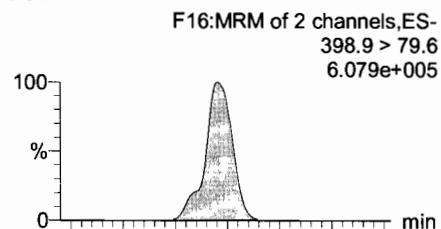
Printed: Sunday, July 30, 2017 08:05:49 Pacific Daylight Time

Name: 170728M2_9, Date: 28-Jul-2017, Time: 17:35:31, ID: ST170728M2-8 PFC CS5 17G2831, Description: PFC CS5 17G2831

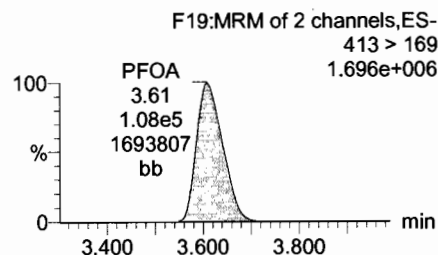
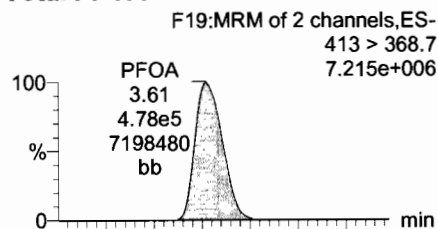
PFHpA



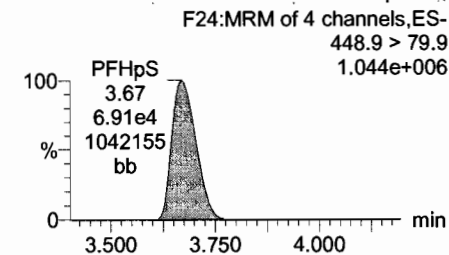
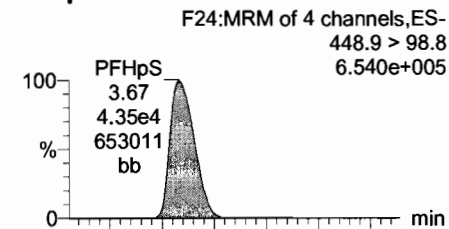
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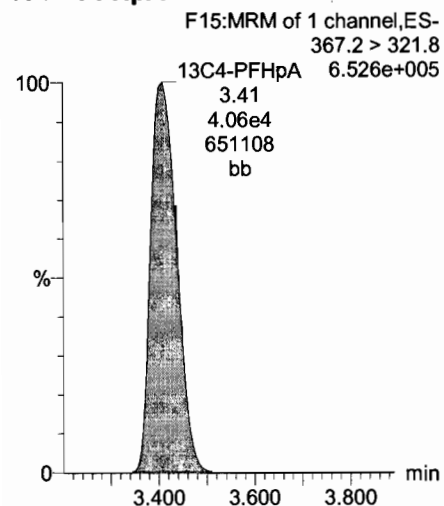
Total PFOA



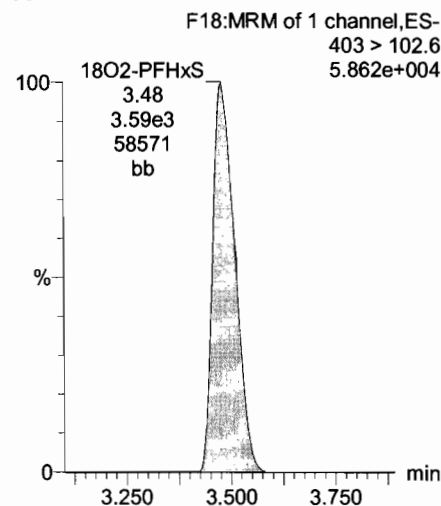
PFHpS



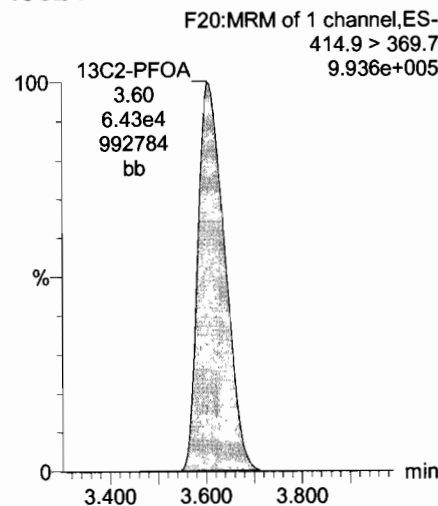
13C4-PFHpA



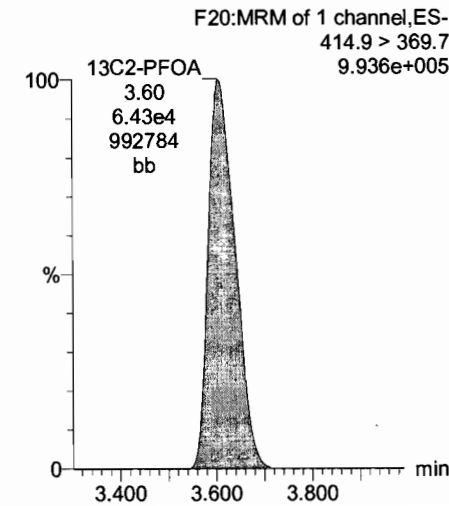
18O2-PFHxS



13C2-PFOA



13C2-PFOA



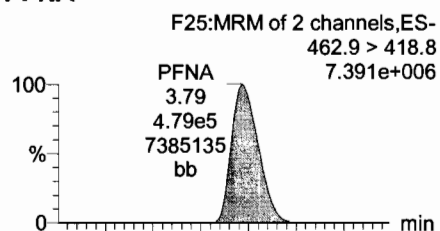
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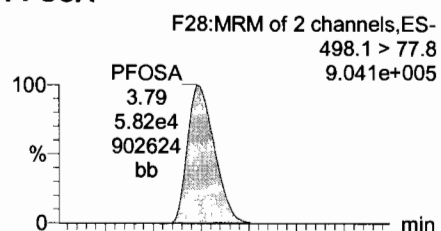
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Name: 170728M2_9, Date: 28-Jul-2017, Time: 17:35:31, ID: ST170728M2-8 PFC CS5 17G2831, Description: PFC CS5 17G2831

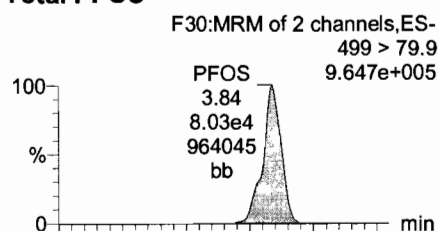
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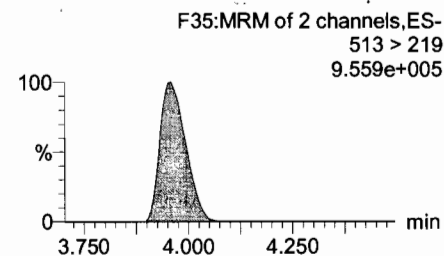
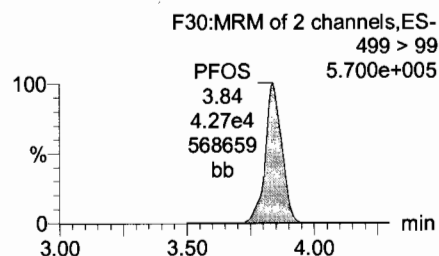
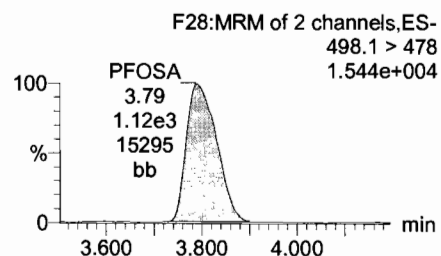
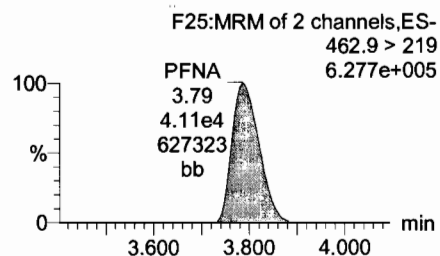
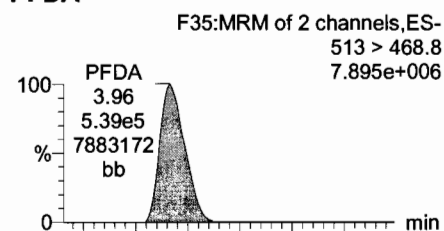
PFOSA



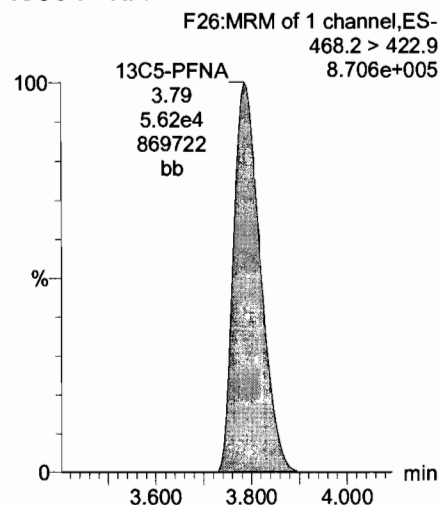
Total PFOS



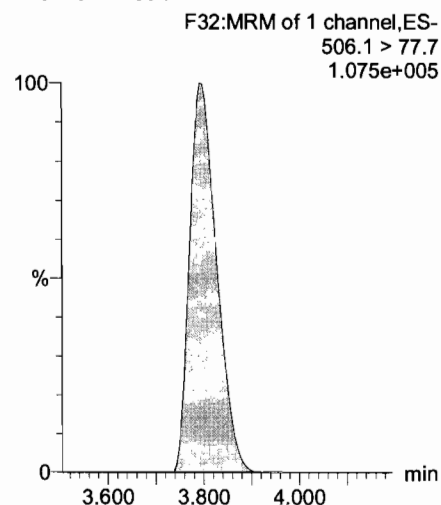
PFDA



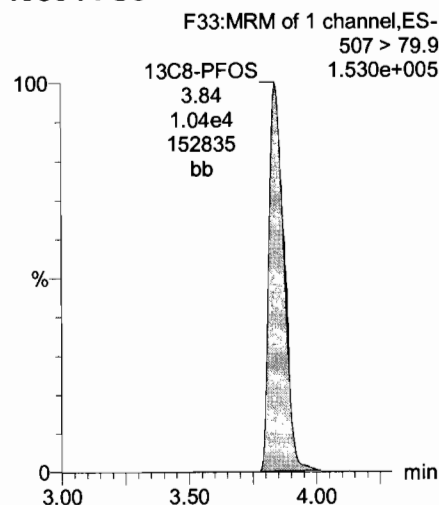
13C5-PFNA



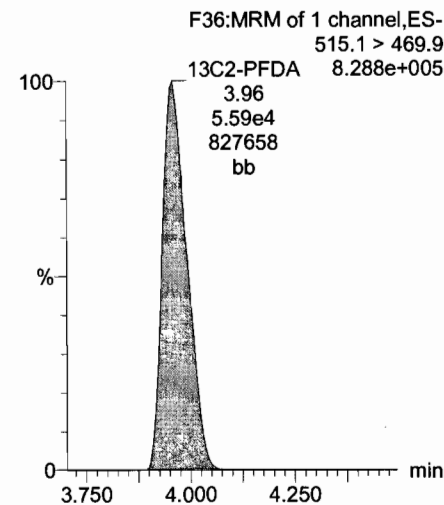
13C8-PFOSA



13C8-PFOS



13C2-PFDA



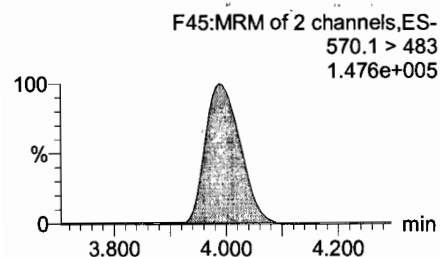
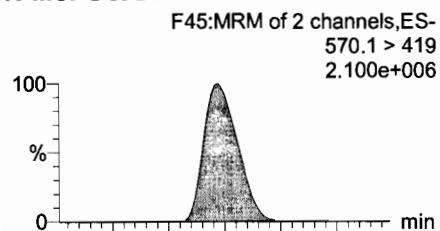
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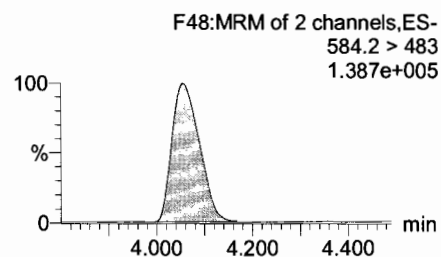
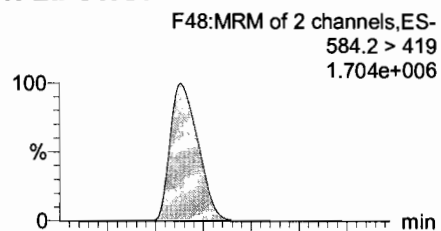
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Name: 170728M2_9, Date: 28-Jul-2017, Time: 17:35:31, ID: ST170728M2-8 PFC CS5 17G2831, Description: PFC CS5 17G2831

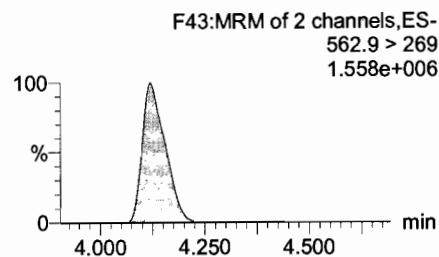
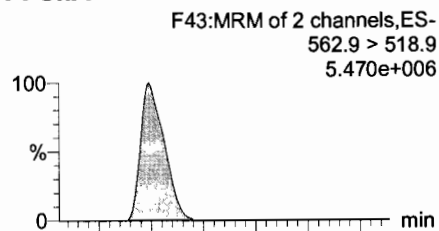
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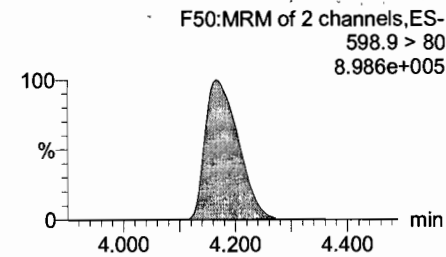
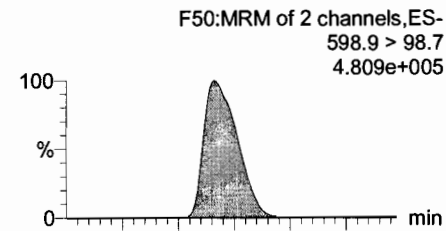
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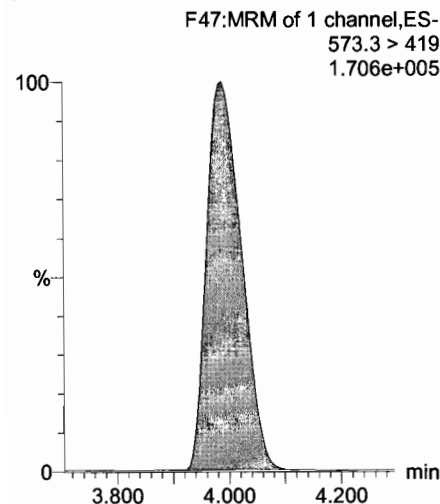
PFUnA



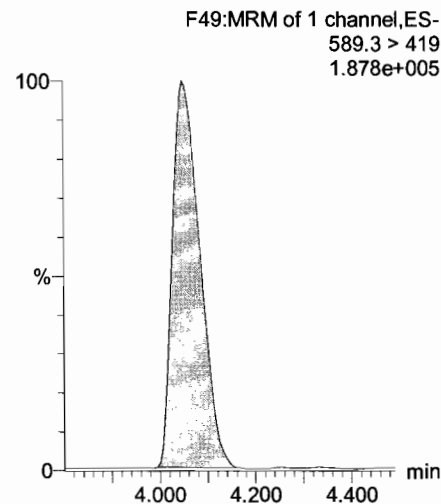
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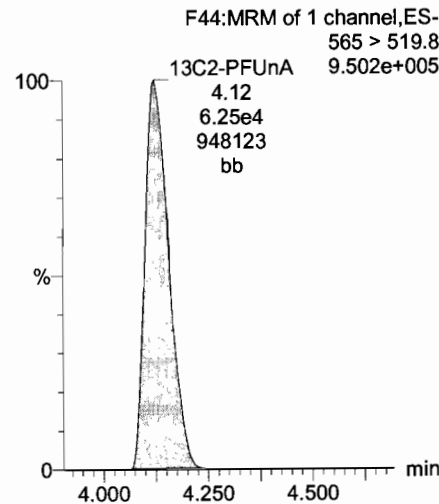
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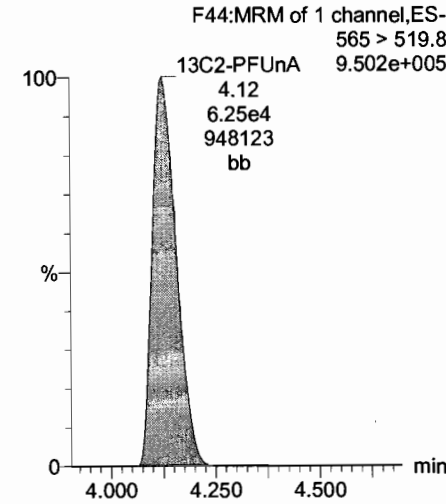
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13C2-PFUnA



13C2-PFUnA



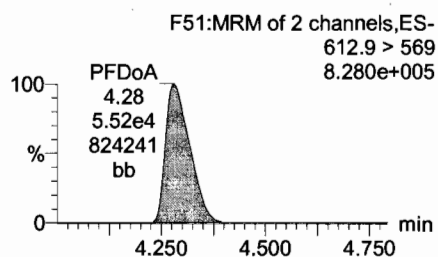
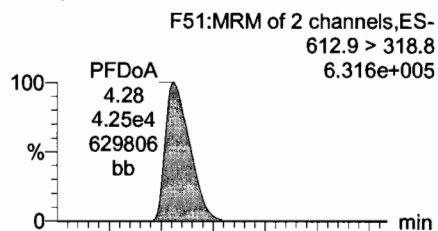
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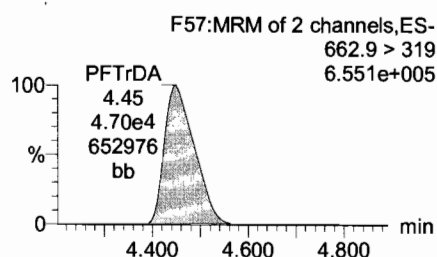
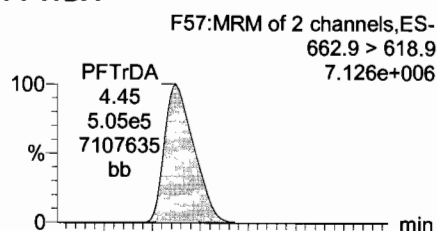
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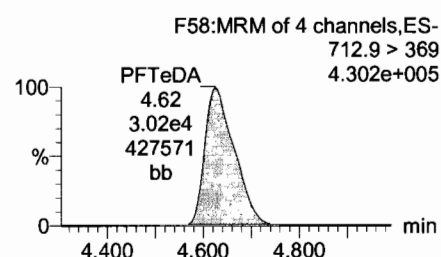
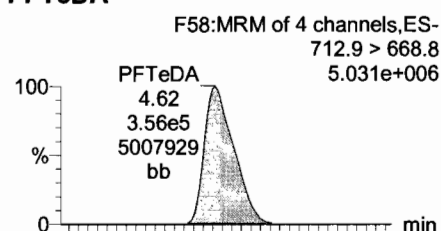
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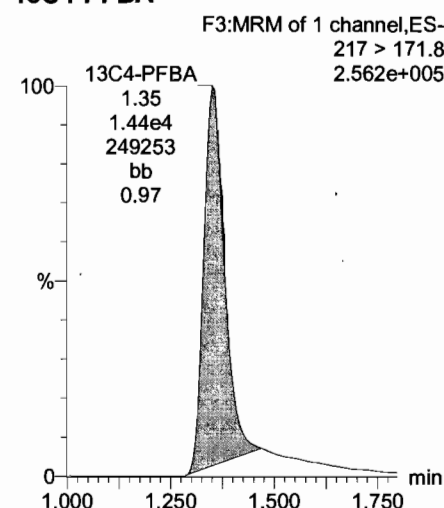
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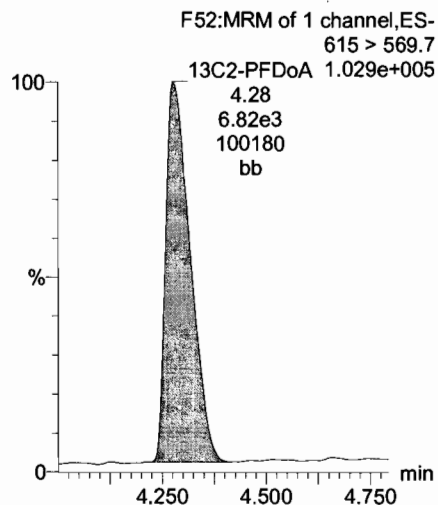
PFT_eDA



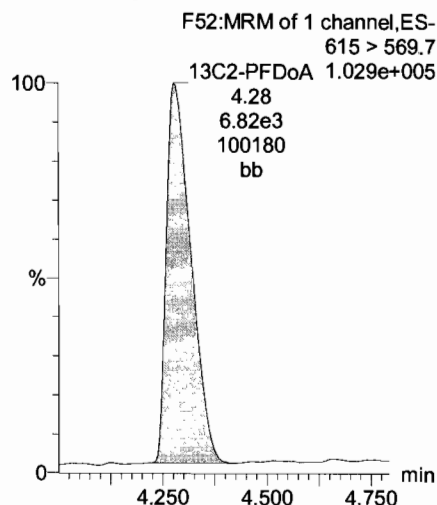
¹³C4-PFBA



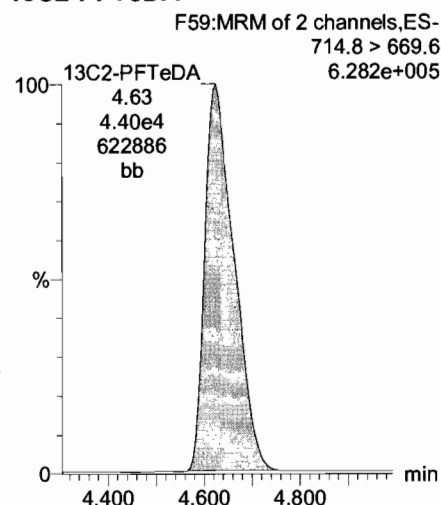
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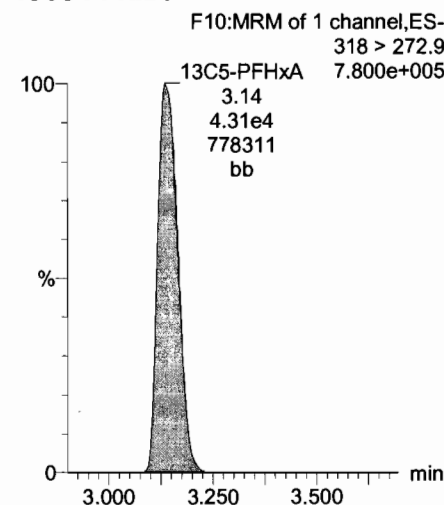
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¹³C2-PFT_eDA



¹³C5-PFH_xA



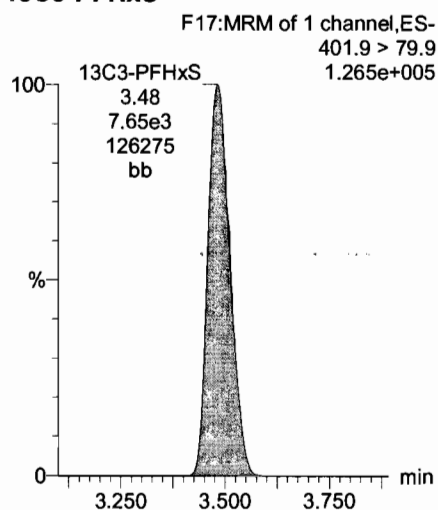
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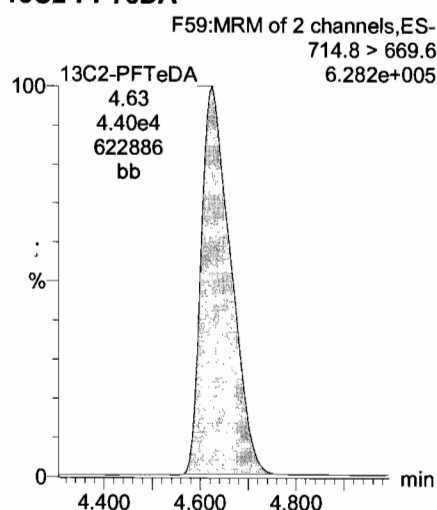
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Name: 170728M2_9, Date: 28-Jul-2017, Time: 17:35:31, ID: ST170728M2-8 PFC CS5 17G2831, Description: PFC CS5 17G2831

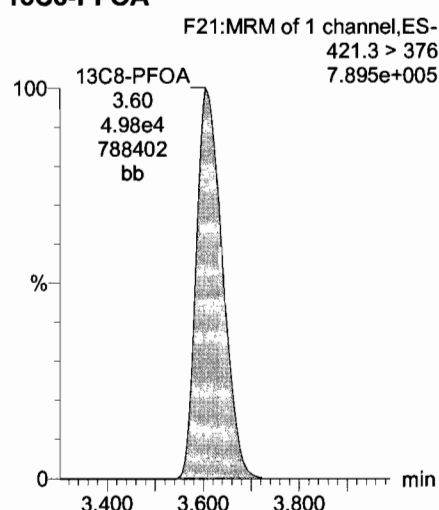
13C3-PFHxS



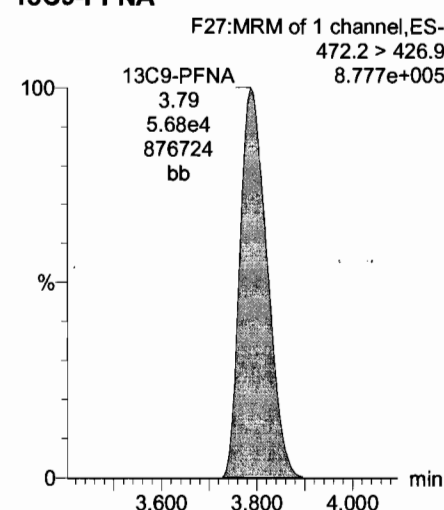
13C2-PFTeDA



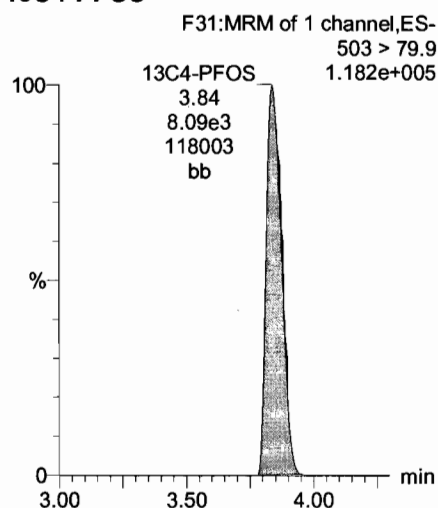
13C8-PFOA



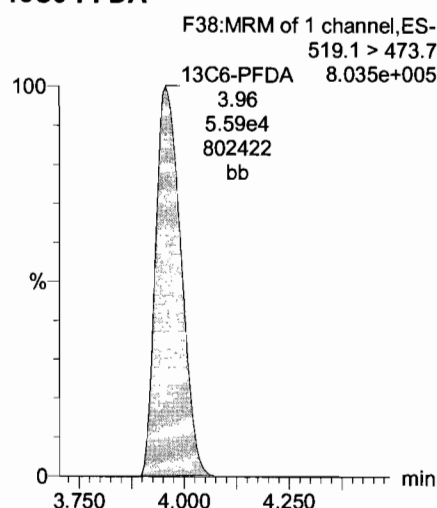
13C9-PFNA



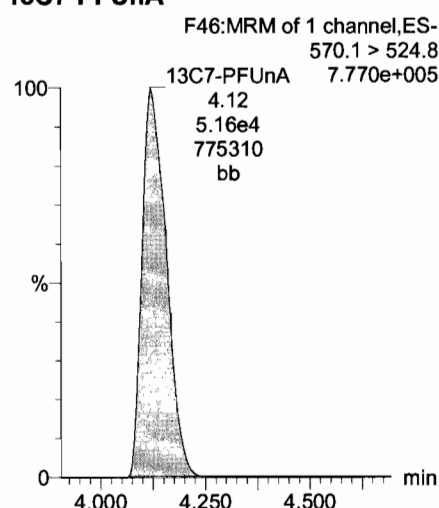
13C4-PFOS



13C6-PFDA



13C7-PFUnA



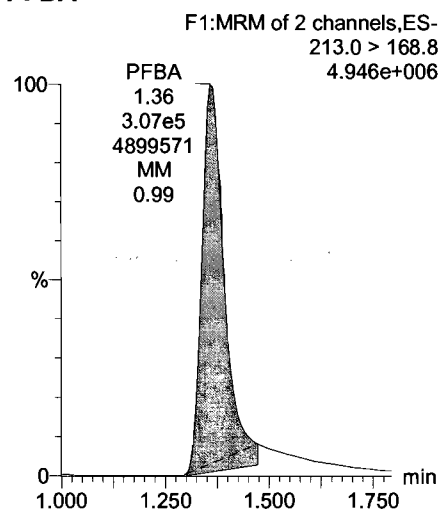
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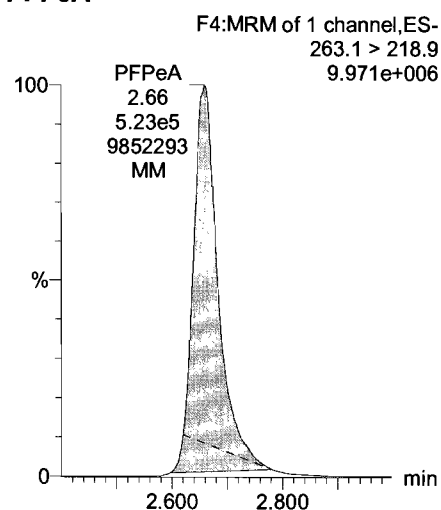
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Name: 170728M2_10, Date: 28-Jul-2017, Time: 17:46:09, ID: ST170728M2-9 PFC CS6 17G2801, Description: PFC CS5 17G2801

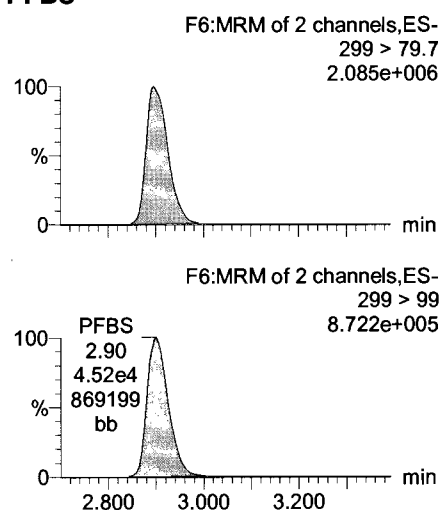
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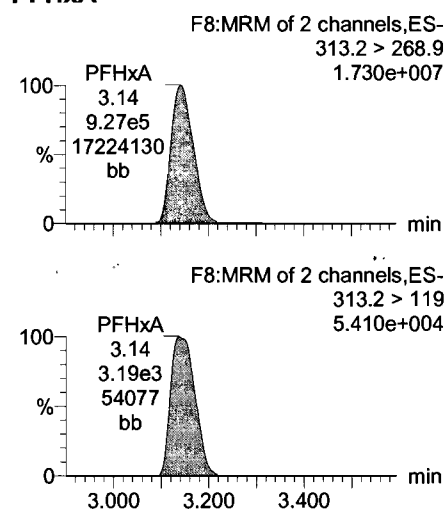
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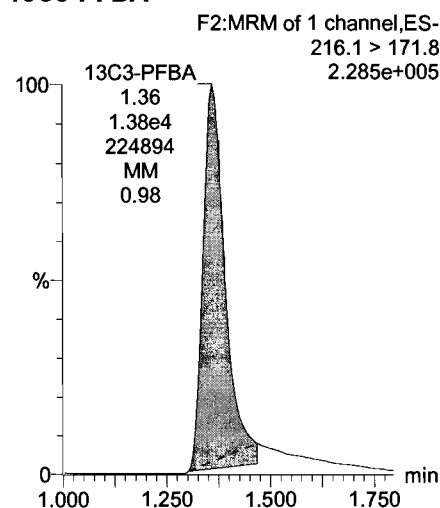
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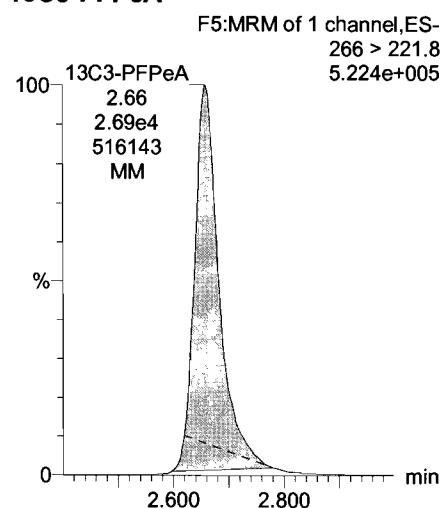
PFHxA



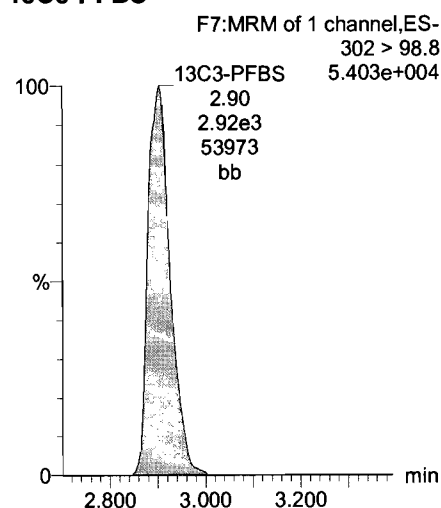
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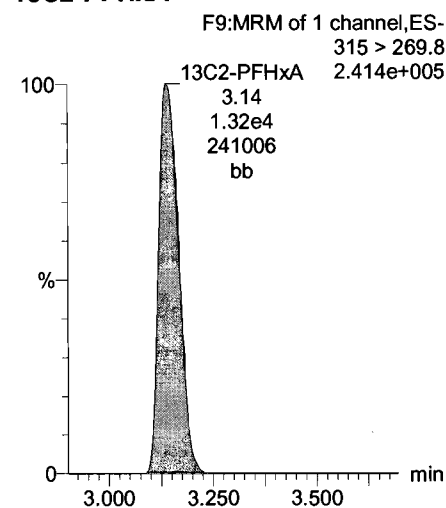
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



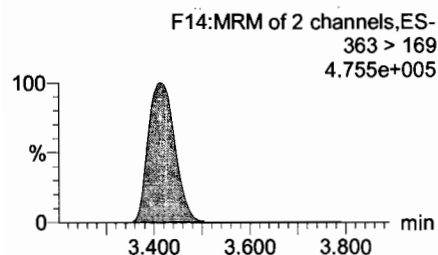
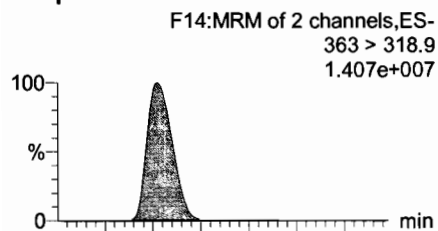
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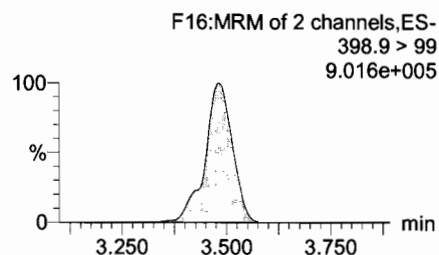
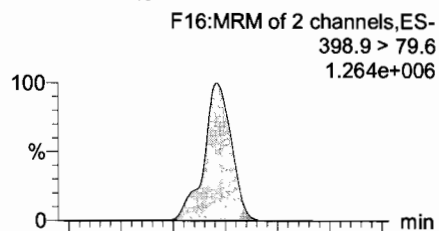
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Name: 170728M2_10, Date: 28-Jul-2017, Time: 17:46:09, ID: ST170728M2-9 PFC CS6 17G2801, Description: PFC CS5 17G2801

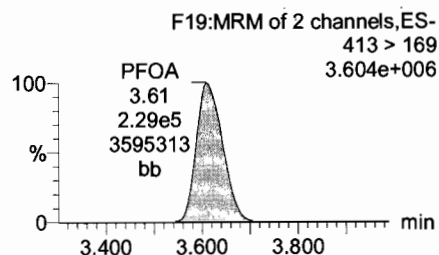
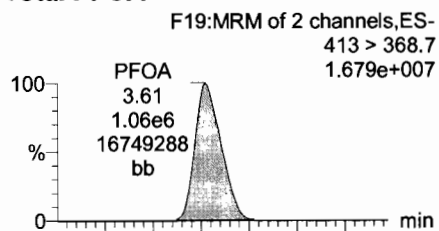
PFHpA



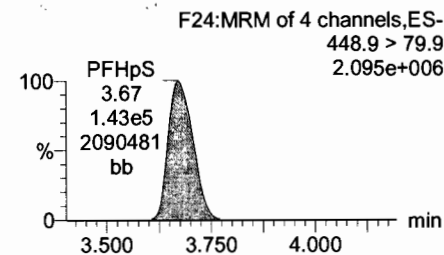
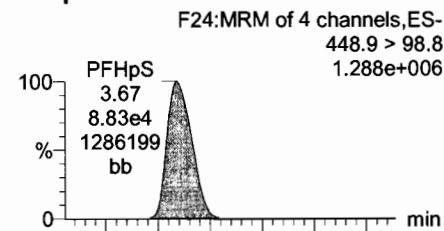
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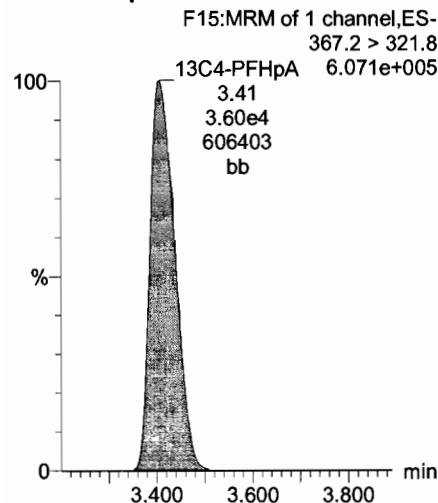
Total PFOA



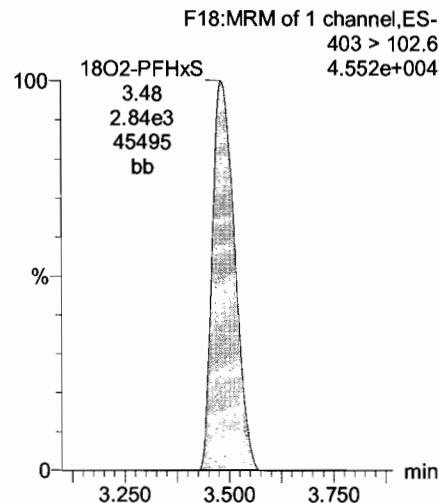
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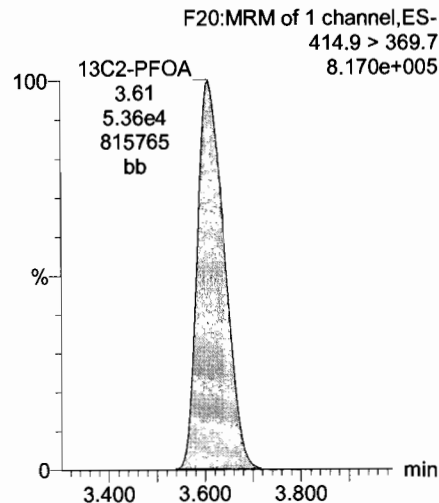
13C4-PFHpA



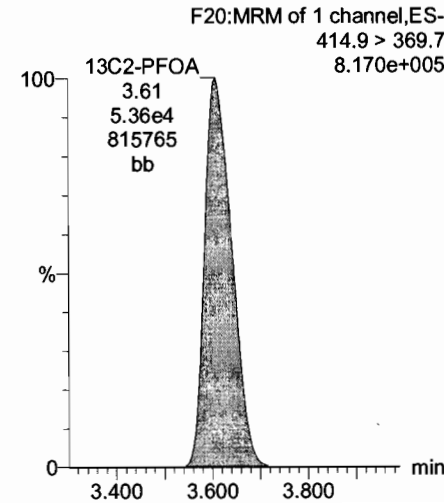
18O2-PFHxS



13C2-PFOA



13C2-PFOA



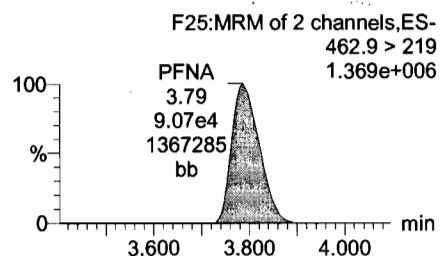
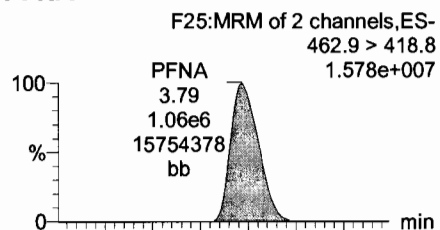
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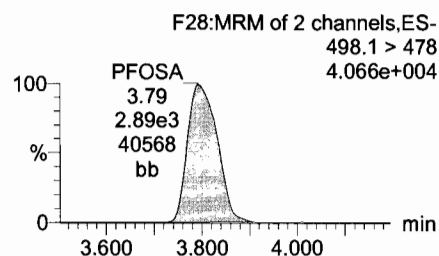
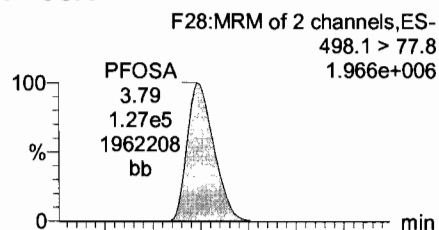
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Name: 170728M2_10, Date: 28-Jul-2017, Time: 17:46:09, ID: ST170728M2-9 PFC CS6 17G2801, Description: PFC CS5 17G2801

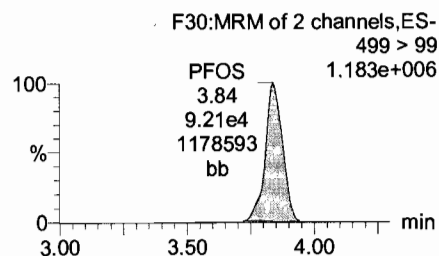
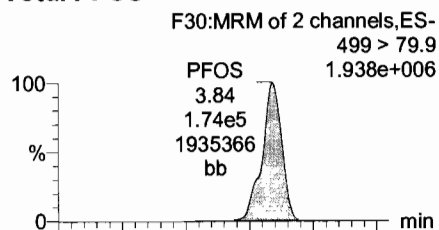
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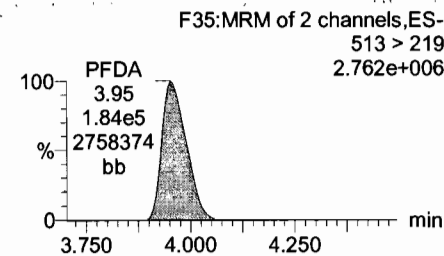
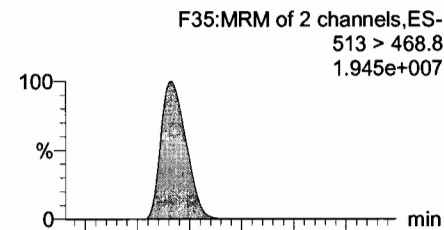
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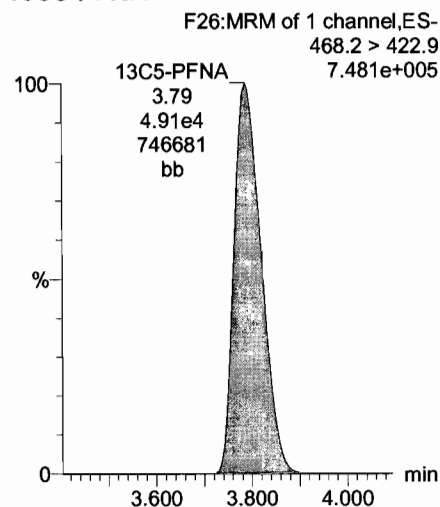
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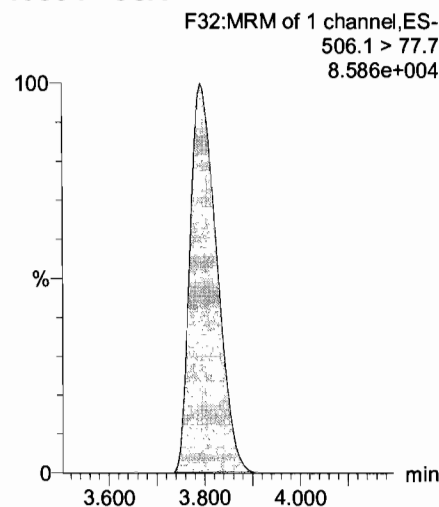
PFDA



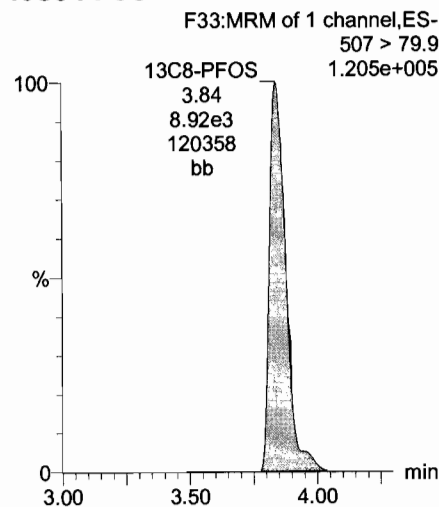
13C5-PFNA



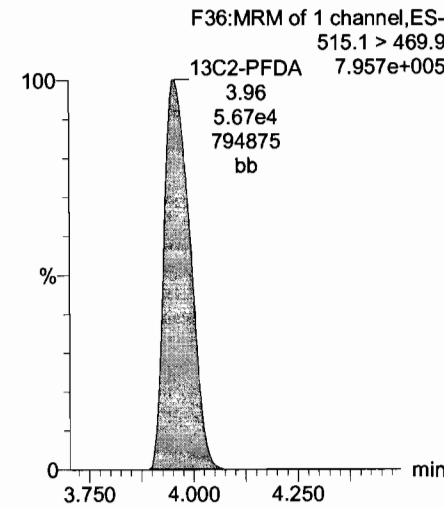
13C8-PFOSA



13C8-PFOS



13C2-PFDA



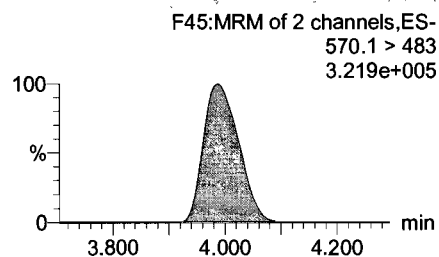
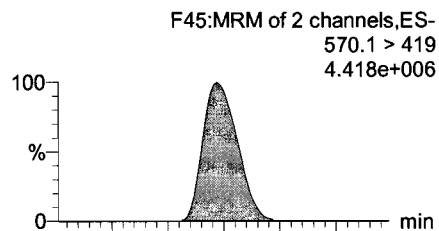
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Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

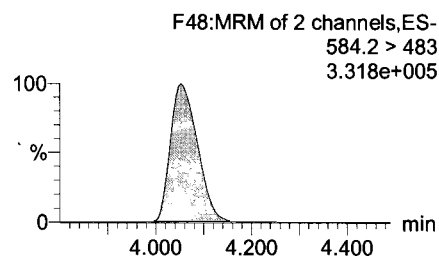
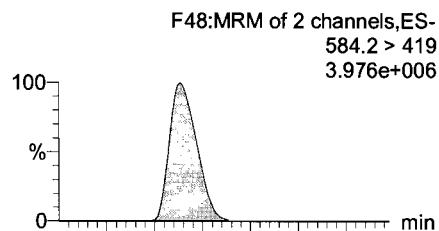
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Name: 170728M2_10, Date: 28-Jul-2017, Time: 17:46:09, ID: ST170728M2-9 PFC CS6 17G2801, Description: PFC CS5 17G2801

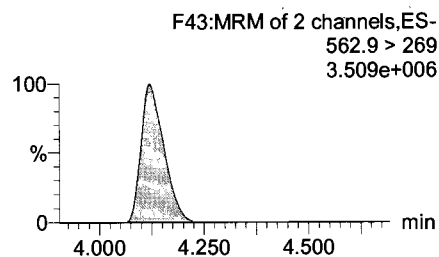
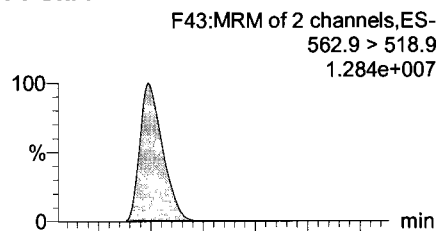
N-MeFOSAA



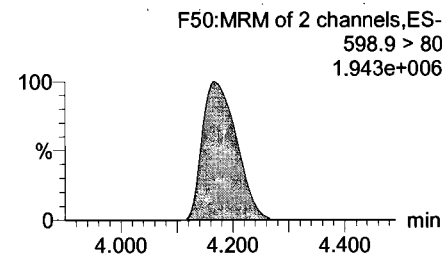
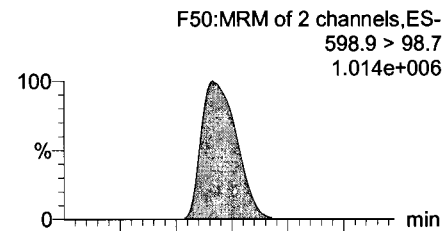
N-EtFOSAA



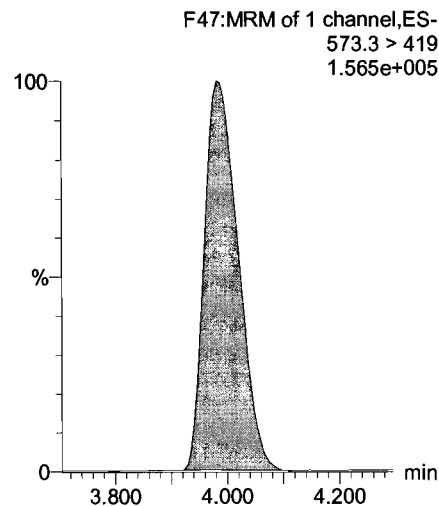
PFUnA



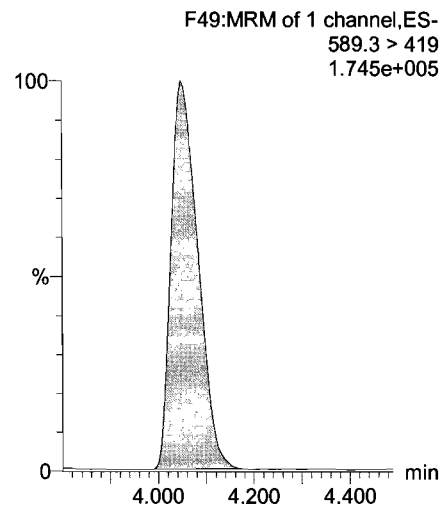
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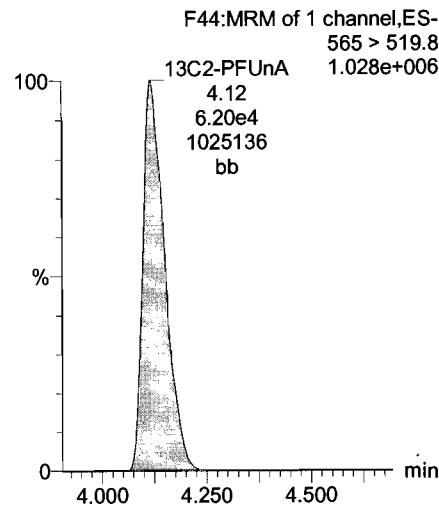
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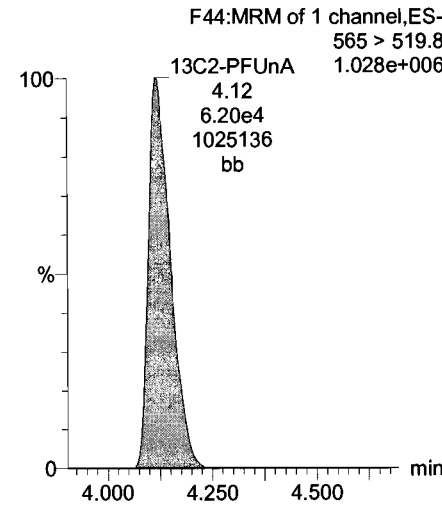
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13C2-PFUnA



13C2-PFUnA



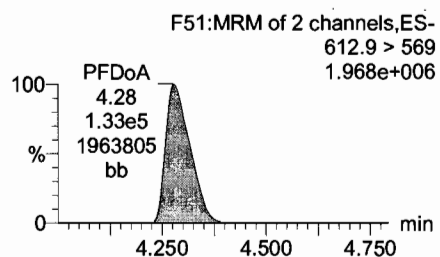
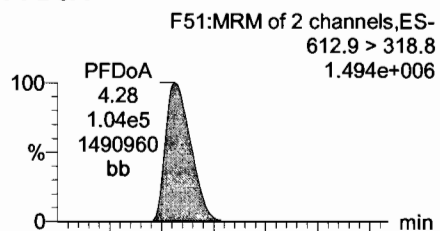
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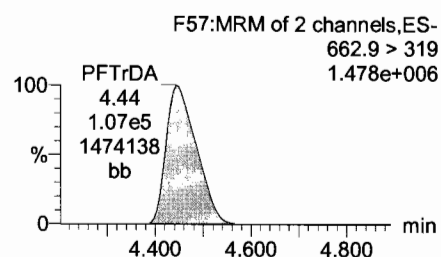
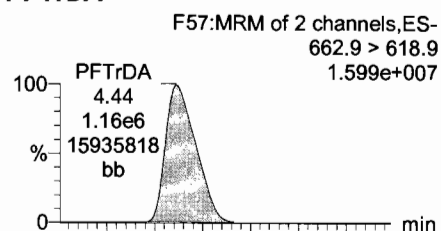
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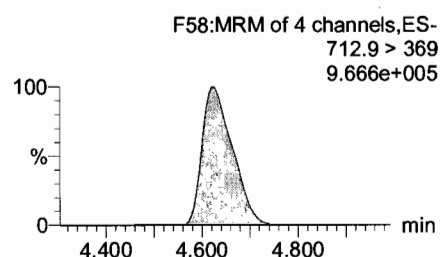
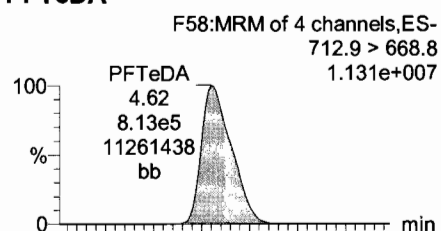
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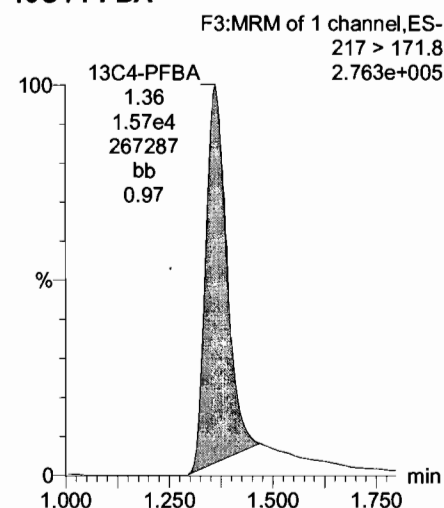
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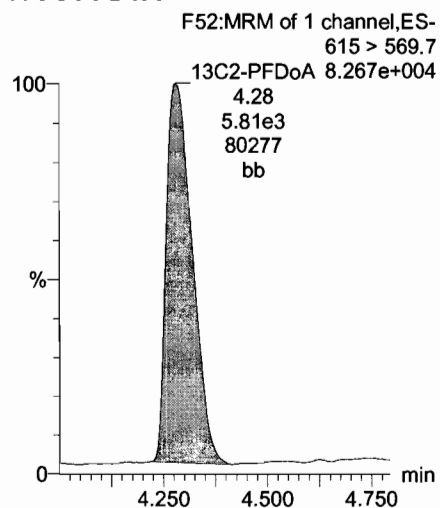
PFT_eDA



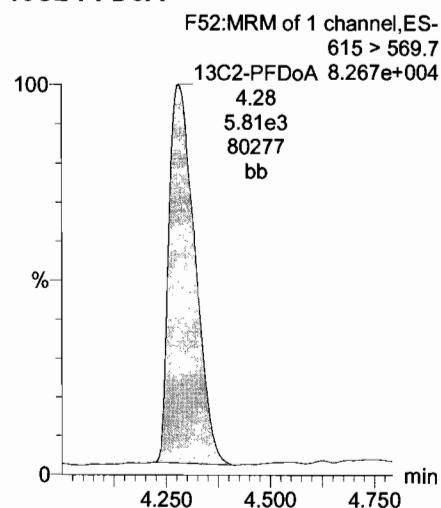
13C₄-PFBA



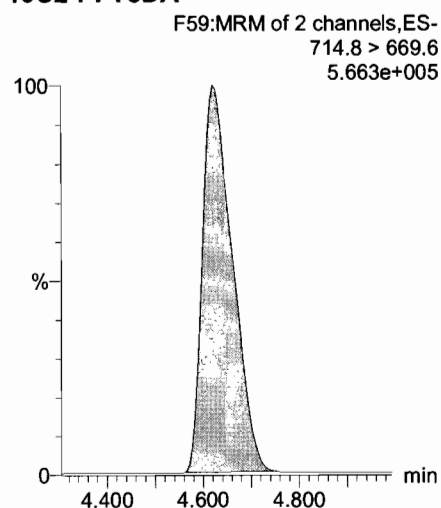
13C₂-PFD_oA



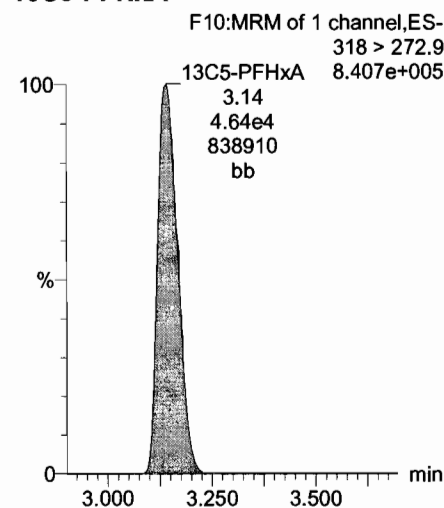
13C₂-PFD_oA



13C₂-PFT_eDA



13C₅-PFHxA



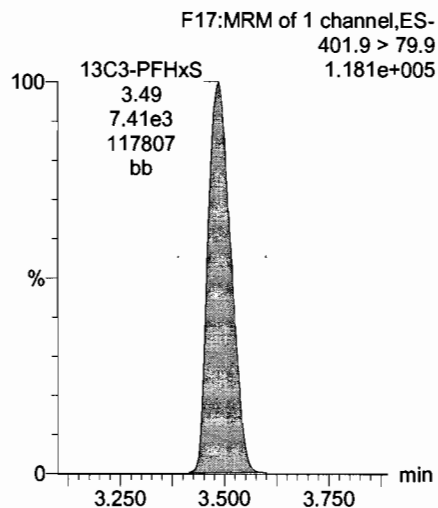
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Last Altered: Sunday, July 30, 2017 08:05:03 Pacific Daylight Time

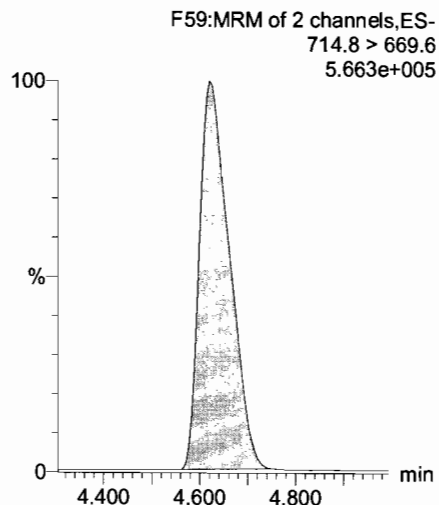
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Name: 170728M2_10, Date: 28-Jul-2017, Time: 17:46:09, ID: ST170728M2-9 PFC CS6 17G2801, Description: PFC CS5 17G2801

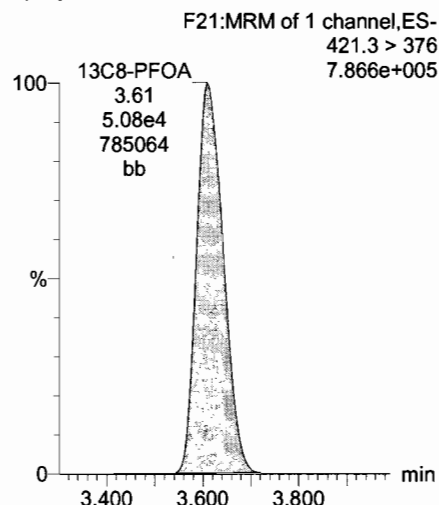
13C3-PFHxS



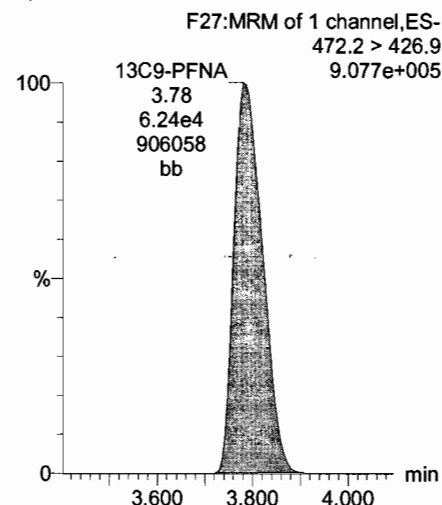
13C2-PFTeDA



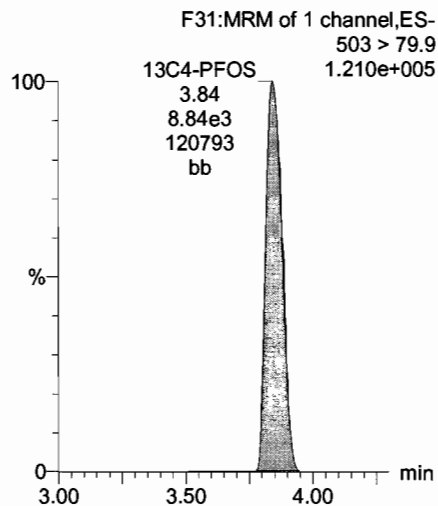
13C8-PFOA



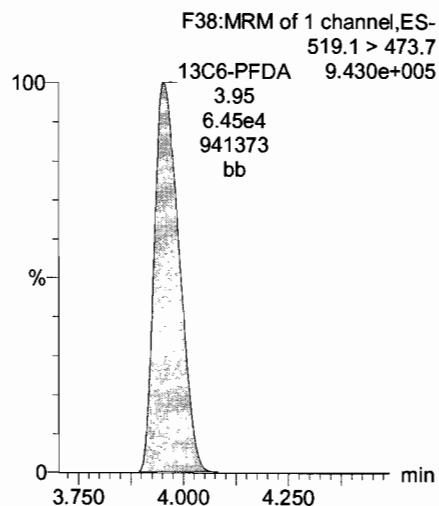
13C9-PFNA



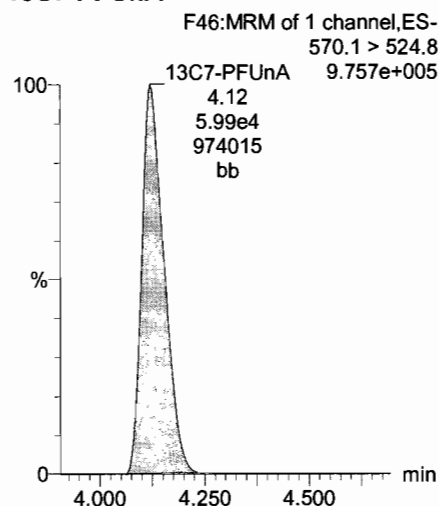
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170728M2\170728M2-13.qld

Last Altered: Sunday, July 30, 2017 08:15:10 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:16:04 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_L17_L14_7-27-17.mdb 30 Jul 2017 07:47:21

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-28-17-L14_L17.cdb 30 Jul 2017 08:10:19

Name: 170728M2_13, Date: 28-Jul-2017, Time: 18:18:40, ID: SS170728M2-1 PFC SSS 17G2823, Description: PFC SSS 17G2823

	# Name	Trace	Area	IS Resp	RRF	WL/Vol	RT	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	12431.708	14876.151		1.000	1.37	9.56	95.60
2	2 PFPeA	263.1 > 218.9	21549.439	29165.430		1.000	2.66	9.58	95.77
3	3 PFBS	299 > 79.7	4272.150	3628.166		1.000	2.90	7.92	79.25
4	4 PFHxA	313.2 > 268.9	38927.918	14593.648		1.000	3.14	9.46	94.60
5	5 PFHpA	363 > 318.9	35487.621	39363.383		1.000	3.42	9.50	95.05
6	6 PFHxS	398.9 > 79.6	3976.645	3740.827		1.000	3.49	7.94	79.42
7	7 PFOA	413 > 368.7	48296.703	63936.551		1.000	3.61	9.59	95.86
8	8 PFHpS	448.9 > 98.8	4024.521	63936.551		1.000	3.67	9.42	94.20
9	9 PFNA	462.9 > 418.8	45019.000	52666.078		1.000	3.79	9.92	99.19
10	10 PFOSA	498.1 > 77.8	5913.732	7621.226		1.000	3.80	8.79	87.89
11	11 PFOS	499 > 79.9	7491.657	10206.083		1.000	3.84	9.22	92.24
12	12 PFDA	513 > 468.8	52188.531	60487.246		1.000	3.96	8.80	88.01
13	13 N-MeFOSAA	570.1 > 419	14215.682	12875.874		1.000	3.99	9.09	90.88
14	14 N-EtFOSAA	584.2 > 419	10735.359	12473.139		1.000	4.05	9.13	91.26
15	15 PFUnA	562.9 > 518.9	35744.629	63778.582		1.000	4.12	9.40	94.01
16	16 PFDS	598.9 > 98.7	3193.330	63778.582		1.000	4.17	8.82	88.24
17	17 PFDoA	612.9 > 318.8	4108.420	6412.423		1.000	4.29	9.89	98.91
18	18 PFTTrDA	662.9 > 618.9	48836.297	6412.423		1.000	4.45	9.65	96.47
19	19 PFTeDA	712.9 > 668.8	34028.941	42185.617		1.000	4.62	9.59	95.89
20	20 13C3-PFBA	216.1 > 171.8	14876.151	13338.616	1.068	1.000	1.37	13.05	104.39
21	21 13C3-PFPeA	266 > 221.8	29165.430	41541.566	0.271	1.000	2.67	12.94	103.49
22	22 13C3-PFBS	302 > 98.8	3628.166	41541.566	0.033	1.000	2.90	13.20	105.62
23	23 13C2-PFHxA	315 > 269.8	14593.648	41541.566	0.335	1.000	3.14	5.24	104.83
24	24 13C4-PFHpA	367.2 > 321.8	39363.383	41541.566	0.369	1.000	3.41	12.84	102.76
25	25 18O2-PFHxS	403 > 102.6	3740.827	7683.510	0.460	1.000	3.48	13.22	105.77
26	26 13C2-PFOA	414.9 > 369.7	63936.551	47325.004	1.293	1.000	3.61	13.06	104.45
27	27 13C5-PFNA	468.2 > 422.9	52666.078	52466.008	0.986	1.000	3.80	12.73	101.81
28	28 13C8-PFOSA	506.1 > 77.7	7621.226	56361.164	0.132	1.000	3.80	12.76	102.06
29	29 13C8-PFOS	507 > 79.9	10206.083	8480.035	1.184	1.000	3.84	12.70	101.62
30	30 13C2-PFDA	515.1 > 469.9	60487.246	53553.129	0.998	1.000	3.96	14.15	113.21
31	31 13C3-N-MeFOSAA	573.3 > 419	12875.874	56361.164	0.018	1.000	3.99	161.46	99.36

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7/30/17

70-130



Dataset: U:\Q4.PRO\results\170728M2\170728M2-13.qld

Last Altered: Sunday, July 30, 2017 08:15:10 Pacific Daylight Time

Printed: Sunday, July 30, 2017 08:16:04 Pacific Daylight Time

Name: 170728M2_13, Date: 28-Jul-2017, Time: 18:18:40, ID: SS170728M2-1 PFC SSS 17G2823, Description: PFC SSS 17G2823

#	Name	Trace	Area	IS Resp	RRF	Wt./Vol	RT	Conc.	%Rec
32	32 d5-N-EtFOSAA	589.3 > 419	12473.139	56361.164	0.018	1.000	4.05	155.65	95.79
33	33 13C2-PFUnA	565 > 519.8	63778.582	56361.164	1.129	1.000	4.12	12.53	100.21
34	34 13C2-PFDoA	615 > 569.7	6412.423	56361.164	0.116	1.000	4.28	12.26	98.07
35	35 13C2-PFTeDA	714.8 > 669.6	42185.617	56361.164	0.762	1.000	4.63	12.28	98.21
36	36 13C4-PFBA	217 > 171.8	13338.616	13338.616	1.000	1.000	1.37	12.50	100.00
37	37 13C5-PFHxA	318 > 272.9	41541.566	41541.566	1.000	1.000	3.15	5.00	100.00
38	38 13C3-PFHxS	401.9 > 79.9	7683.510	7683.510	1.000	1.000	3.49	12.50	100.00
39	39 13C8-PFOA	421.3 > 376	47325.004	47325.004	1.000	1.000	3.61	12.50	100.00
40	40 13C9-PFNA	472.2 > 426.9	52466.008	52466.008	1.000	1.000	3.79	12.50	100.00
41	41 13C4-PFOS	503 > 79.9	8480.035	8480.035	1.000	1.000	3.84	12.50	100.00
42	42 13C6-PFDA	519.1 > 473.7	53553.129	53553.129	1.000	1.000	3.96	12.50	100.00
43	43 13C7-PFUnA	570.1 > 524.8	56361.164	56361.164	1.000	1.000	4.13	12.50	100.00

Dataset: U:\Q4.PRO\results\170728M2\170728M2-13.qld

Last Altered: Sunday, July 30, 2017 08:15:10 Pacific Daylight Time

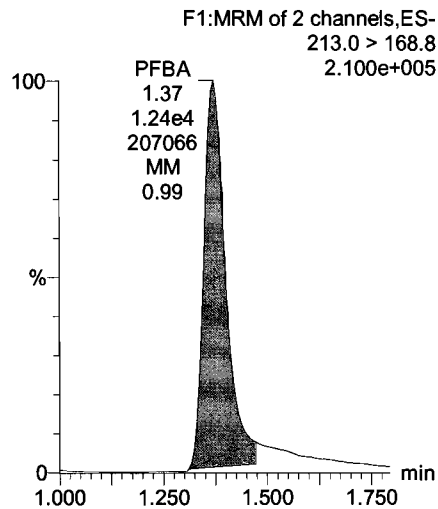
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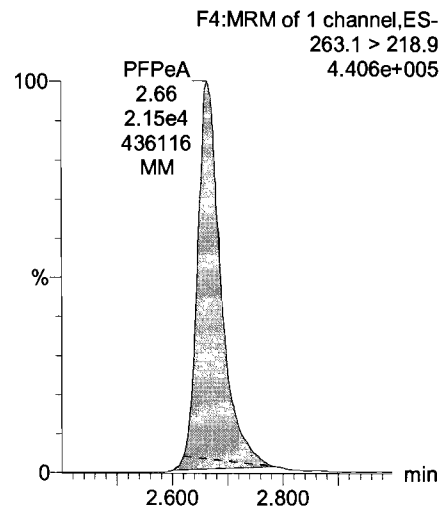
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Name: 170728M2_13, Date: 28-Jul-2017, Time: 18:18:40, ID: SS170728M2-1 PFC SSS 17G2823, Description: PFC SSS 17G2823

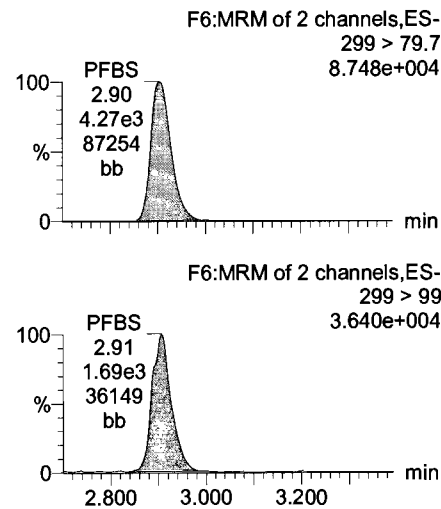
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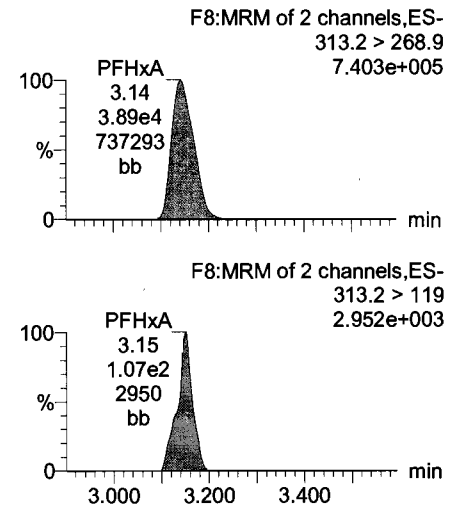
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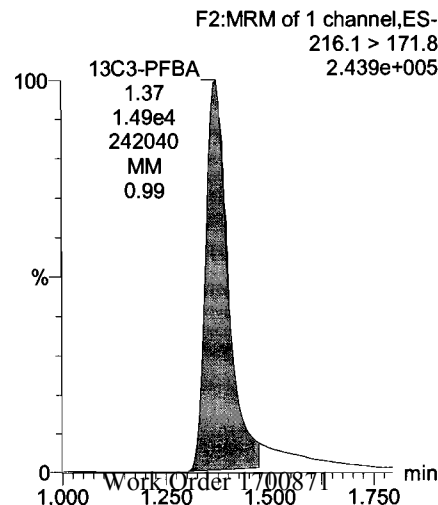
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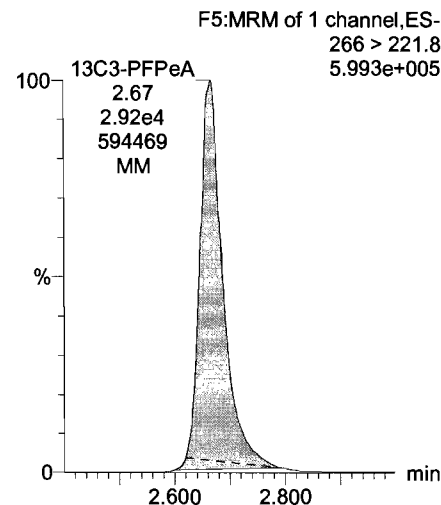
PFHxA



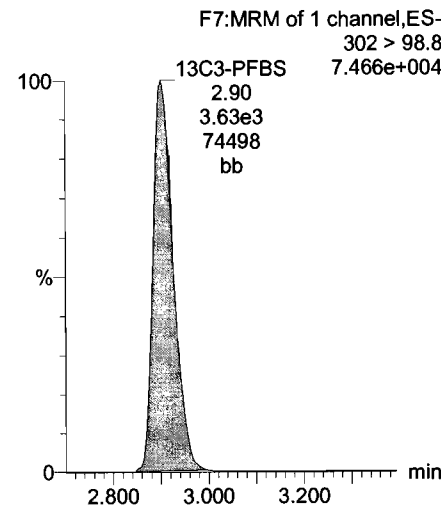
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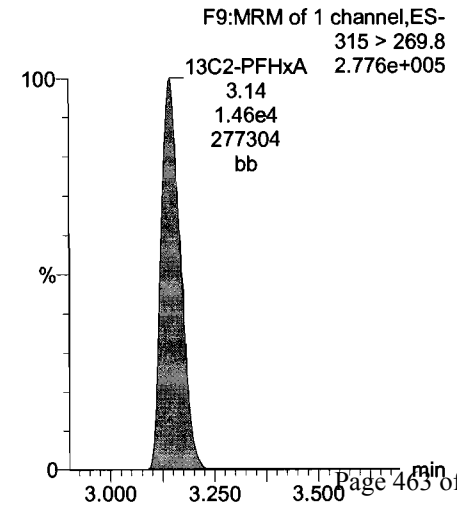
13C3-PFPeA



13C3-PFBS



13C2-PFHxA



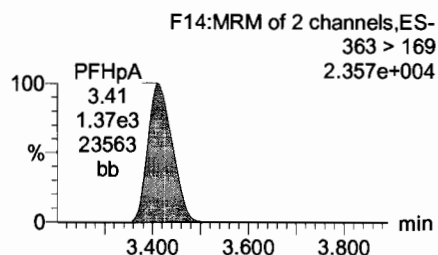
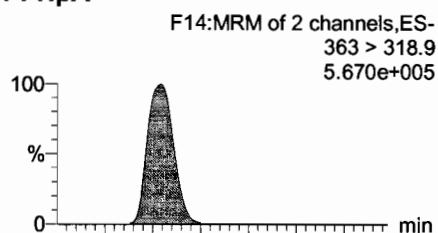
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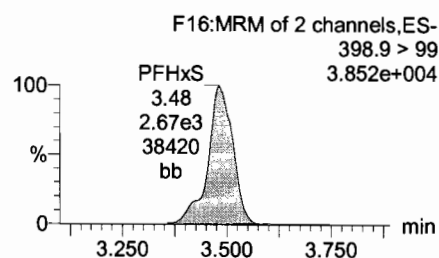
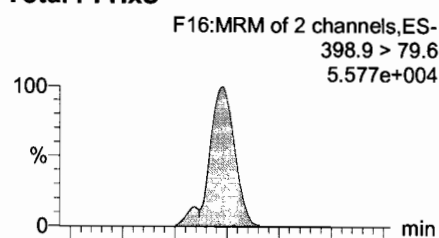
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Name: 170728M2_13, Date: 28-Jul-2017, Time: 18:18:40, ID: SS170728M2-1 PFC SSS 17G2823, Description: PFC SSS 17G2823

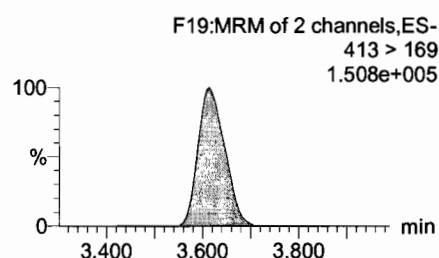
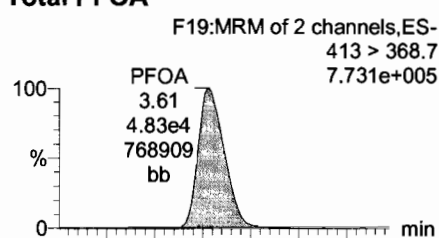
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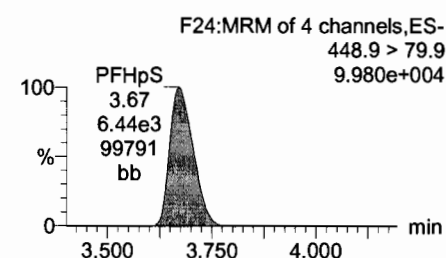
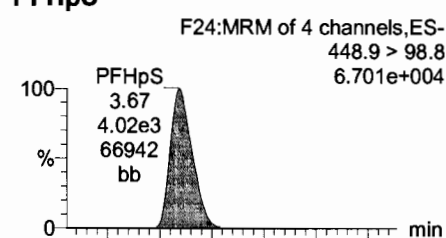
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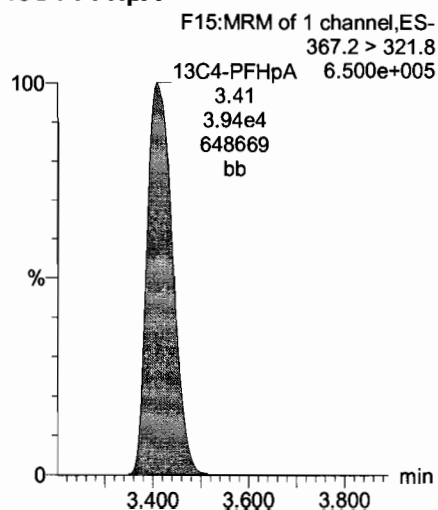
Total PFOA



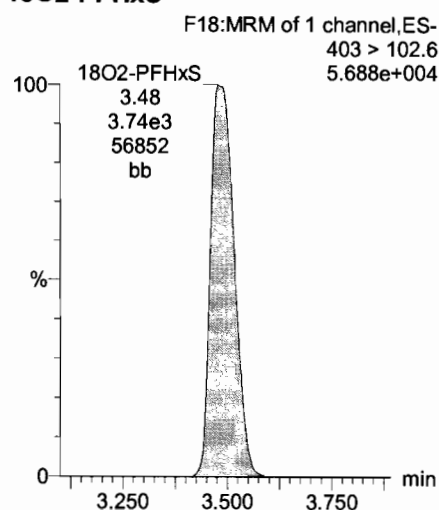
PFHpS



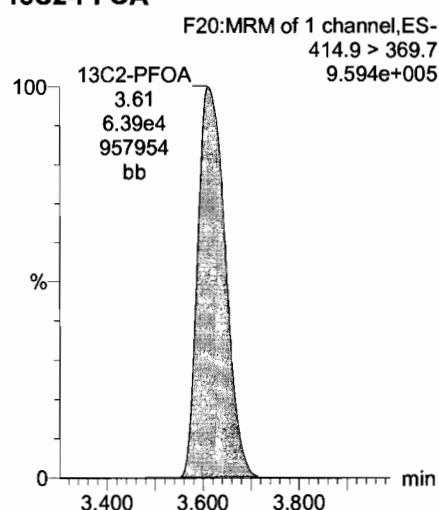
13C4-PFHpA



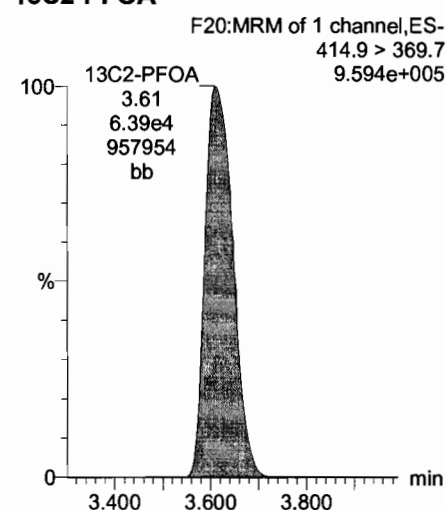
18O2-PFHxS



13C2-PFOA



13C2-PFOA



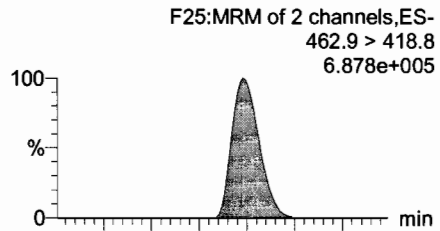
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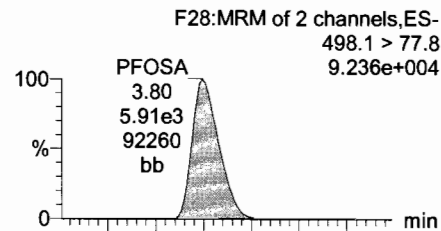
Printed: Sunday, July 30, 2017 08:15:41 Pacific Daylight Time

Name: 170728M2_13, Date: 28-Jul-2017, Time: 18:18:40, ID: SS170728M2-1 PFC SSS 17G2823, Description: PFC SSS 17G2823

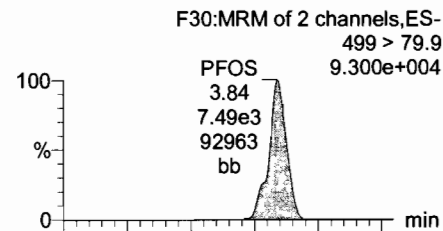
PFNA



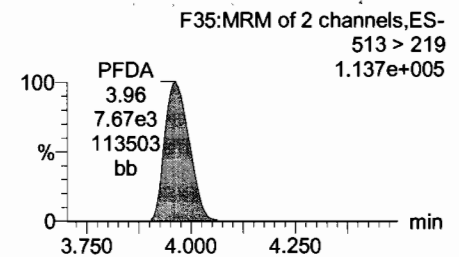
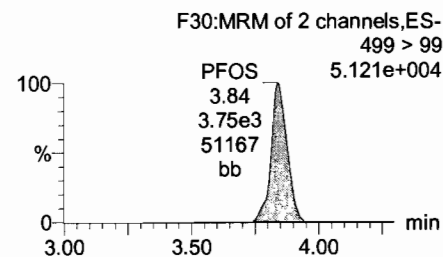
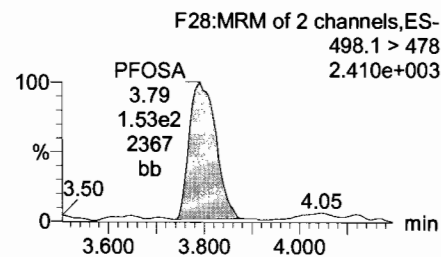
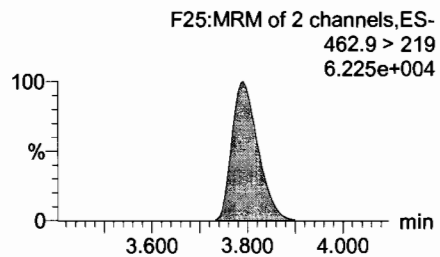
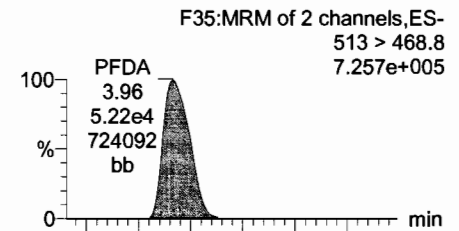
PFOSA



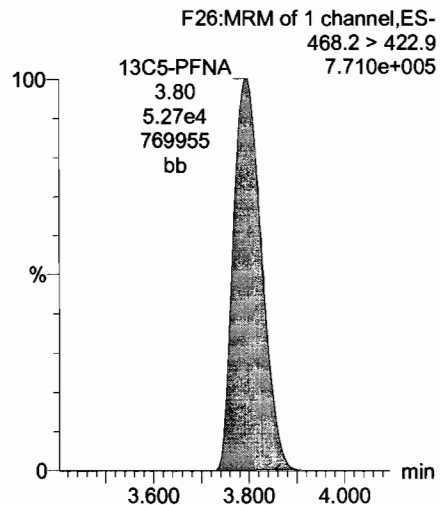
Total PFOS



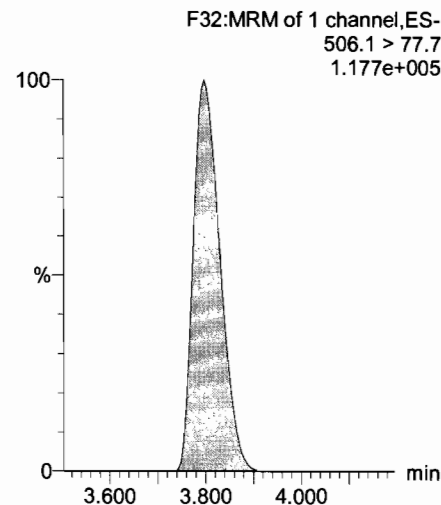
PFDA



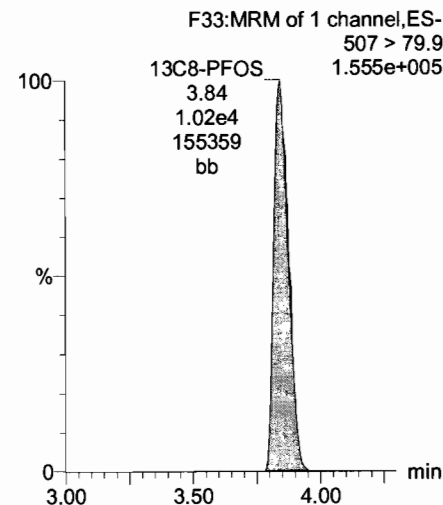
13C5-PFNA



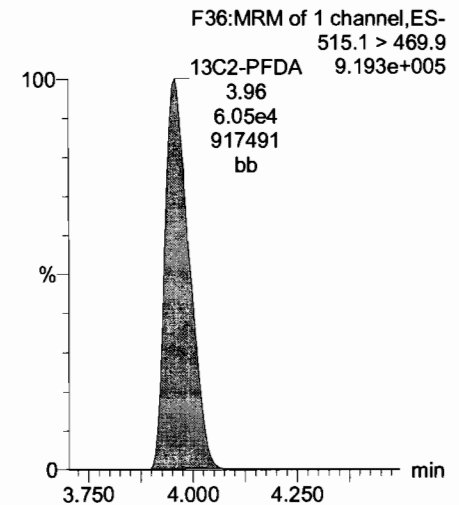
13C8-PFOSA



13C8-PFOS



13C2-PFDA



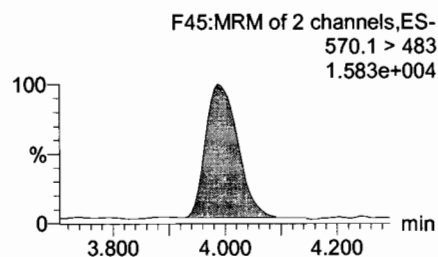
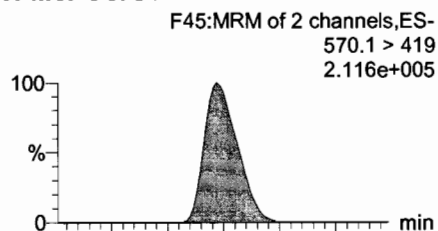
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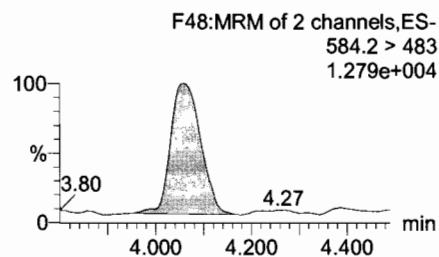
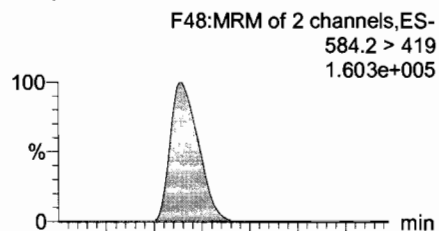
Printed: Sunday, July 30, 2017 08:15:41 Pacific Daylight Time

Name: 170728M2_13, Date: 28-Jul-2017, Time: 18:18:40, ID: SS170728M2-1 PFC SSS 17G2823, Description: PFC SSS 17G2823

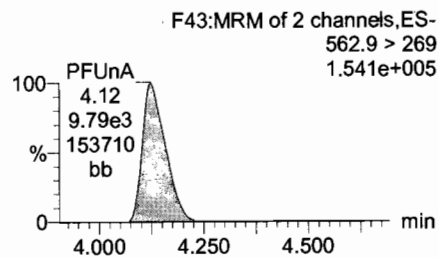
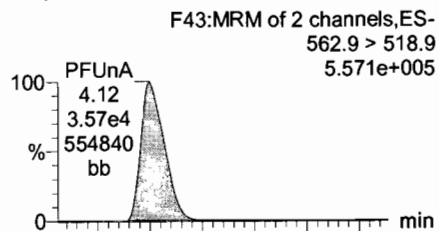
N-MeFOSAA



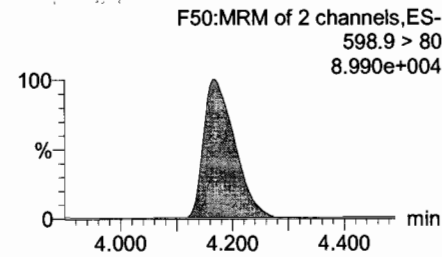
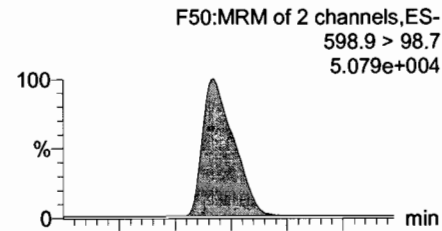
N-EtFOSAA



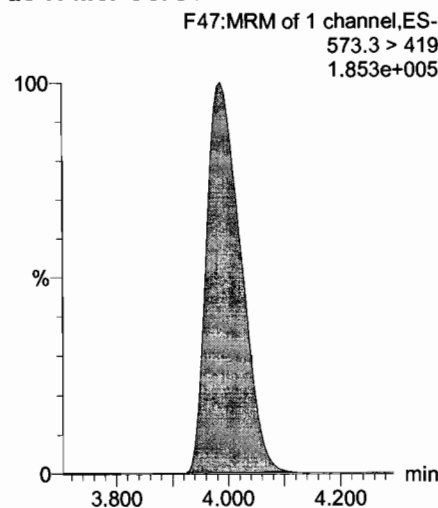
PFUnA



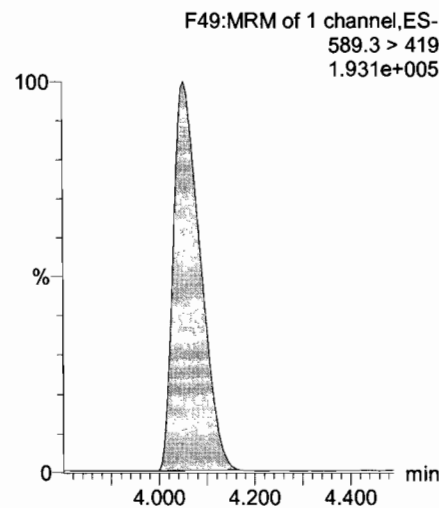
PFDS



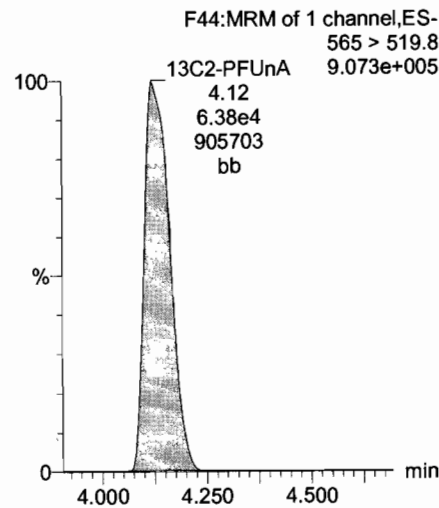
d3-N-MeFOSAA



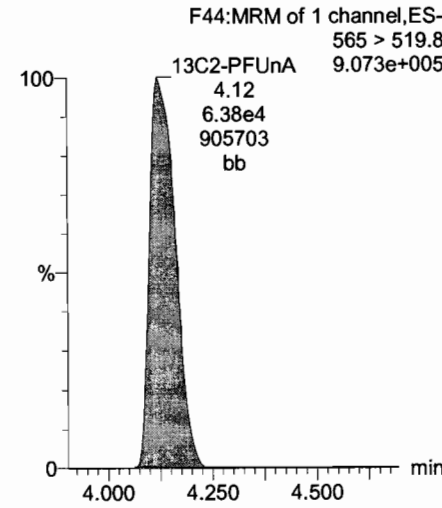
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



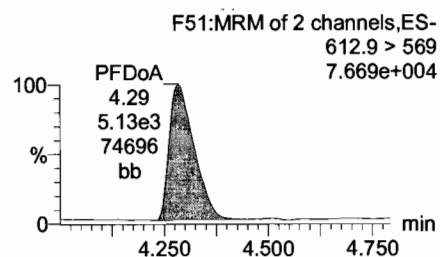
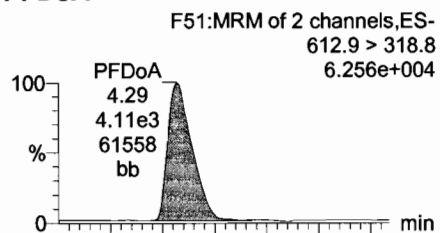
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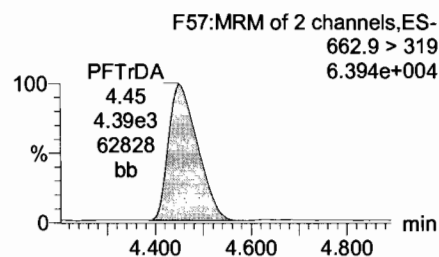
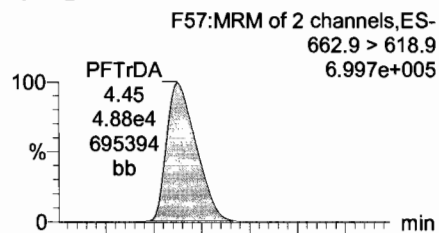
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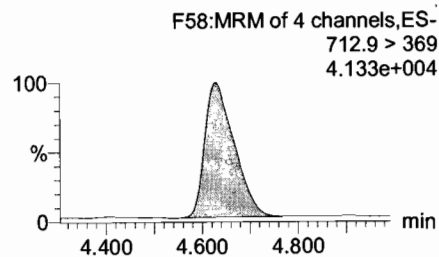
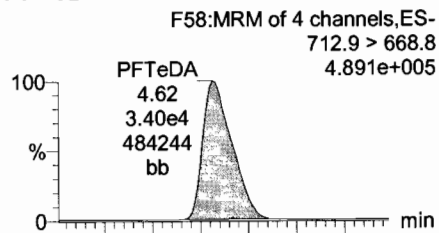
PFD_oA



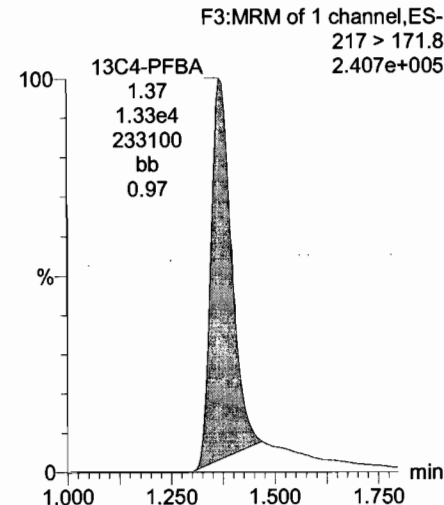
PFT_rDA



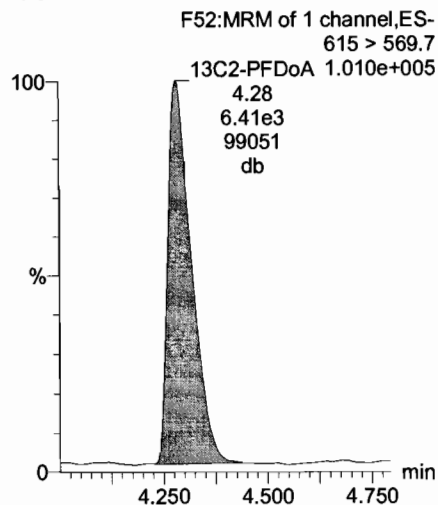
PFT_eDA



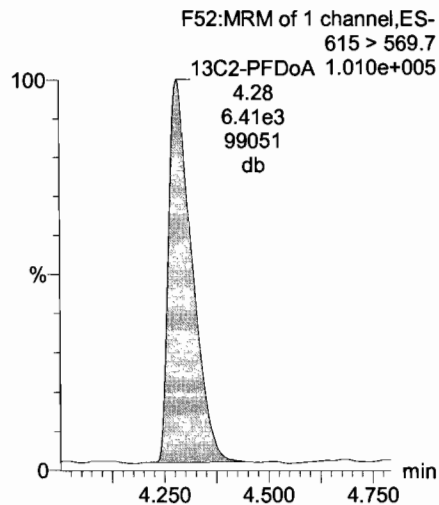
¹³C₄-PFBA



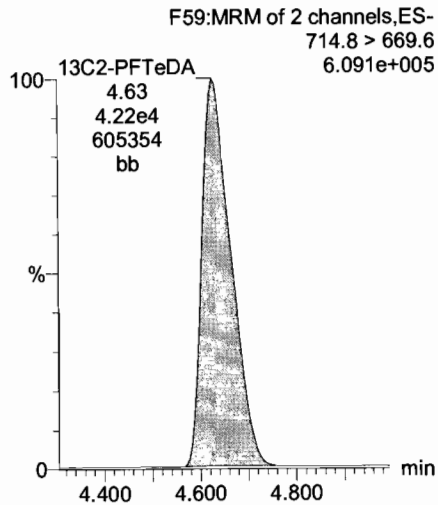
¹³C₂-PFD_oA



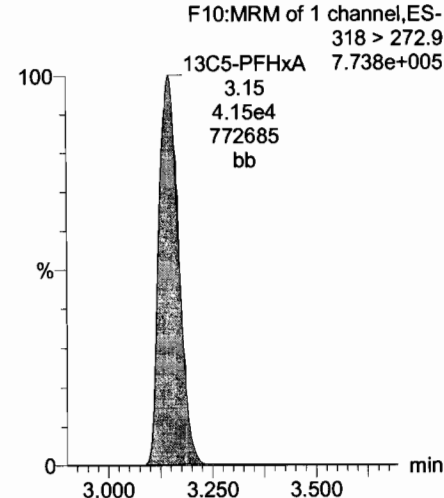
¹³C₂-PFT_oA



¹³C₂-PFT_eDA



¹³C₅-PFHxA



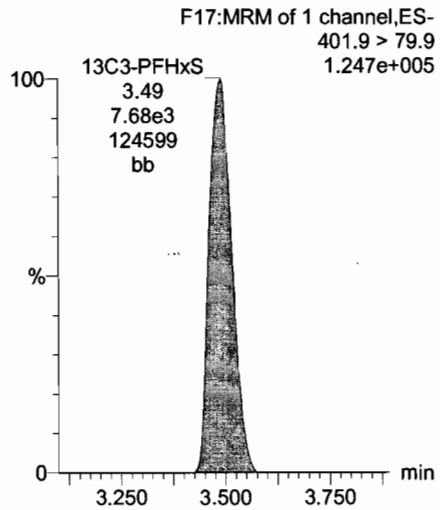
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Last Altered: Sunday, July 30, 2017 08:15:10 Pacific Daylight Time

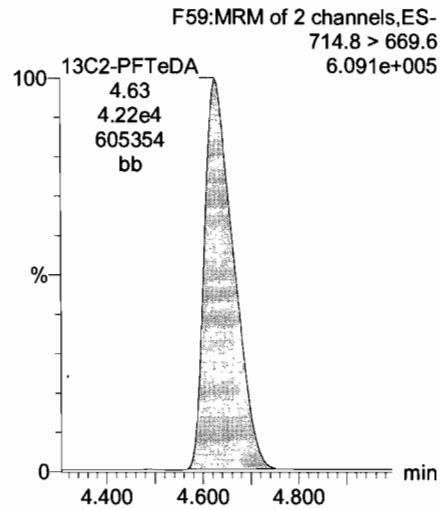
Printed: Sunday, July 30, 2017 08:15:41 Pacific Daylight Time

Name: 170728M2_13, Date: 28-Jul-2017, Time: 18:18:40, ID: SS170728M2-1 PFC SSS 17G2823, Description: PFC SSS 17G2823

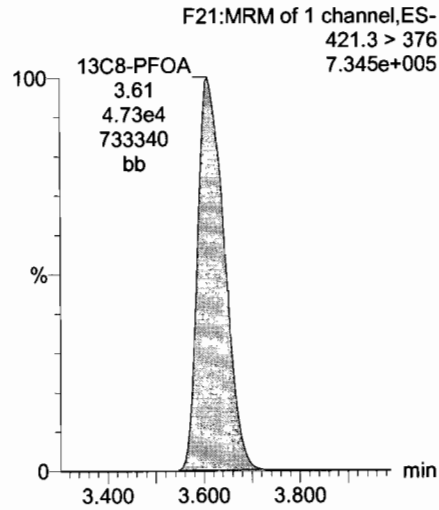
13C3-PFHxS



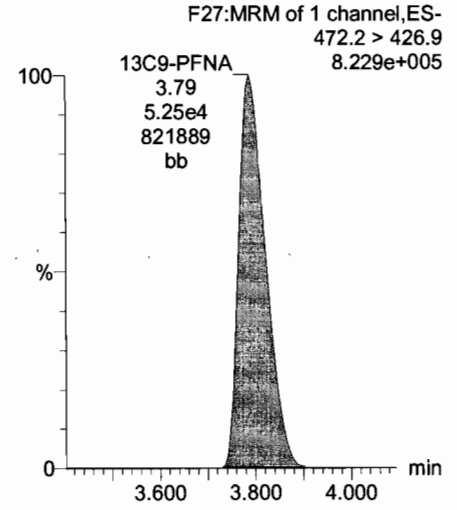
13C2-PFTeDA



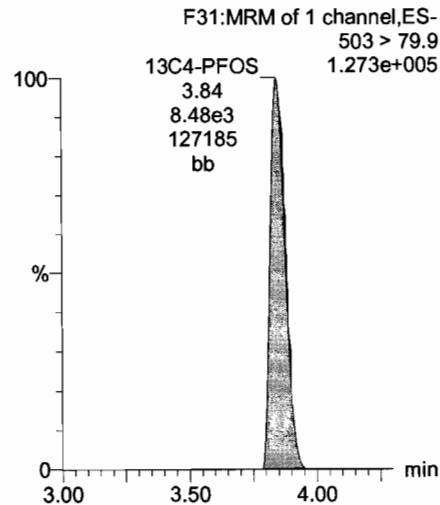
13C8-PFOA



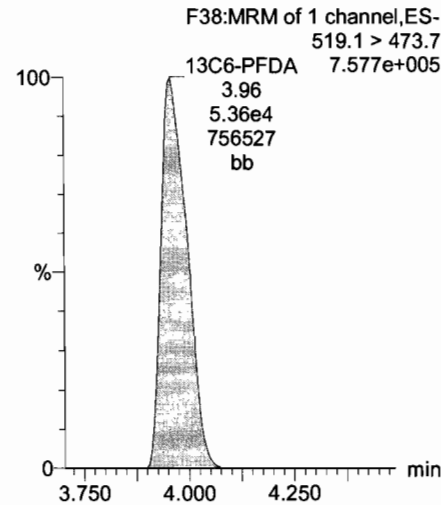
13C9-PFNA



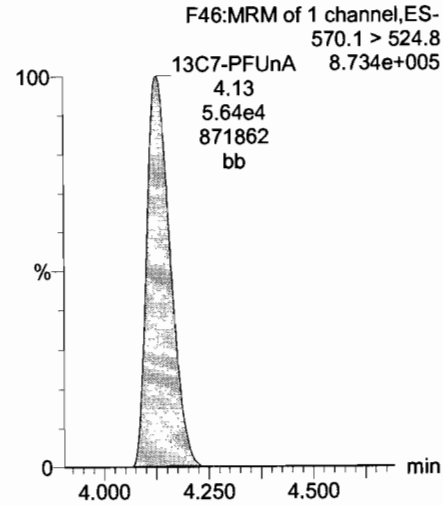
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

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8/1/17

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-20-17.mdb 01 Aug 2017 09:55:07

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

AC
8/1/17

Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999898$

Calibration curve: $6.26653e-005 * x^2 + 1.07835 * x + 0.0734459$

Response type: Internal Std (Ref 28), 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 170731M2_2	Standard	0.250	1.41	411.114	13874.437	0.370	0.3	10.1	NO	1.000	NO	MM
2	2 170731M2_3	Standard	0.500	1.40	713.007	14032.984	0.635	0.5	4.2	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	1.39	1410.952	14534.191	1.213	1.1	5.7	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	1.41	2604.108	13825.355	2.354	2.1	5.8	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	1.40	6507.126	14375.643	5.658	5.2	3.5	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	1.40	12186.419	14275.662	10.671	9.8	-1.8	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	1.40	60399.383	13941.181	54.156	50.0	0.0	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	1.40	122688.352	14182.987	108.130	99.6	-0.4	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	1.41	444076.063	20278.131	273.741	250.1	0.1	NO	1.000	NO	bb

Compound name: PFPeA

Correlation coefficient: $r = 0.999842$, $r^2 = 0.999685$

Calibration curve: $0.95207 * x + 0.034134$

Response type: Internal Std (Ref 29), 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 170731M2_2	Standard	0.250	2.69	567.060	28315.961	0.250	0.2	-9.2	NO	1.000	NO	MM
2	2 170731M2_3	Standard	0.500	2.69	1149.332	28971.373	0.496	0.5	-3.0	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	2.69	2381.328	29344.844	1.014	1.0	3.0	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	2.70	4632.085	27224.277	2.127	2.2	9.9	NO	1.000	NO	MM
5	5 170731M2_6	Standard	5.000	2.69	11287.421	28900.883	4.882	5.1	1.8	NO	1.000	NO	MM
6	6 170731M2_7	Standard	10.000	2.69	22284.025	28928.092	9.629	10.1	0.8	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	2.69	101931.336	27958.209	45.573	47.8	-4.3	NO	1.000	NO	MM
8	8 170731M2_9	Standard	100.000	2.70	209969.516	27418.373	95.725	100.5	0.5	NO	1.000	NO	MM
9	9 170731M2_10	Standard	250.000	2.70	777214.313	40599.961	239.290	251.3	0.5	NO	1.000	NO	MM

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Compound name: PFBS

Correlation coefficient: $r = 0.999700$, $r^2 = 0.999400$

Calibration curve: $1.88408 * x + 0.0670139$

Response type: Internal Std (Ref 30), 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 170731M2_2	Standard	0.250	2.92	151.762	3567.166	0.532	0.2	-1.3	NO	0.999	NO	bb
2	2 170731M2_3	Standard	0.500	2.93	294.717	3674.875	1.002	0.5	-0.7	NO	0.999	NO	bb
3	3 170731M2_4	Standard	1.000	2.93	602.633	3756.884	2.005	1.0	2.9	NO	0.999	NO	bb
4	4 170731M2_5	Standard	2.000	2.93	1142.969	3453.801	4.137	2.2	8.0	NO	0.999	NO	bb
5	5 170731M2_6	Standard	5.000	2.92	2761.764	3669.754	9.407	5.0	-0.9	NO	0.999	NO	db
6	6 170731M2_7	Standard	10.000	2.93	5120.116	3495.072	18.312	9.7	-3.2	NO	0.999	NO	bb
7	7 170731M2_8	Standard	50.000	2.92	24305.621	3386.169	89.724	47.6	-4.8	NO	0.999	NO	bb
8	8 170731M2_9	Standard	100.000	2.93	49918.813	3369.060	185.210	98.3	-1.7	NO	0.999	NO	bb
9	9 170731M2_10	Standard	250.000	2.93	175245.609	4571.001	479.232	254.3	1.7	NO	0.999	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999770$, $r^2 = 0.999541$

Calibration curve: $1.38743 * x + 0.151774$

Response type: Internal Std (Ref 31), 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 170731M2_2	Standard	0.250	3.17	1105.240	13289.316	0.416	0.2	-23.9	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	3.17	2259.732	13996.411	0.807	0.5	-5.5	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	3.16	4555.615	13471.391	1.691	1.1	10.9	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	3.16	8364.676	13180.728	3.173	2.2	8.9	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	3.16	21557.746	14300.003	7.538	5.3	6.5	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	3.16	38887.297	13464.359	14.441	10.3	3.0	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	3.17	186053.391	13579.439	68.506	49.3	-1.5	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	3.16	370981.719	13004.882	142.632	102.7	2.7	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	3.16	1637628.125	23861.670	343.150	247.2	-1.1	NO	1.000	NO	bb

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Compound name: PFHpA

Correlation coefficient: $r = 0.999907$, $r^2 = 0.999814$

Calibration curve: $1.19527 * x + 0.0770691$

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 170731M2_2	Standard	0.250	3.43	1188.512	42267.941	0.351	0.2	-8.2	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	3.43	2346.575	44035.770	0.666	0.5	-1.4	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	3.43	4665.274	47111.973	1.238	1.0	-2.9	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	3.43	8684.659	40041.188	2.711	2.2	10.2	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	3.43	22188.094	43531.445	6.371	5.3	5.3	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	3.43	39873.324	41835.402	11.914	9.9	-1.0	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	3.43	198036.984	42486.371	58.265	48.7	-2.6	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	3.43	391289.031	40762.777	119.990	100.3	0.3	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	3.43	1450839.000	60510.934	299.706	250.7	0.3	NO	1.000	NO	bb

Compound name: PFHxS

Correlation coefficient: $r = 0.998411$, $r^2 = 0.996824$

Calibration curve: $1.6806 * x + 0.0313148$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	0.250	3.50	136.913	4105.498	0.417	0.2	-8.2	NO	0.997	NO	MM
2	2 170731M2_3	Standard	0.500	3.51	320.409	4057.192	0.987	0.6	13.8	NO	0.997	NO	MM
3	3 170731M2_4	Standard	1.000	3.51	503.736	4402.638	1.430	0.8	-16.8	NO	0.997	NO	MM
4	4 170731M2_5	Standard	2.000	3.50	1217.100	3891.568	3.909	2.3	15.4	NO	0.997	NO	bb
5	5 170731M2_6	Standard	5.000	3.51	2734.810	3878.935	8.813	5.2	4.5	NO	0.997	NO	MM
6	6 170731M2_7	Standard	10.000	3.50	5376.990	3978.140	16.895	10.0	0.3	NO	0.997	NO	bb
7	7 170731M2_8	Standard	50.000	3.50	25163.787	3932.861	79.979	47.6	-4.9	NO	0.997	NO	db
8	8 170731M2_9	Standard	100.000	3.51	51344.988	4159.138	154.314	91.8	-8.2	NO	0.997	NO	db
9	9 170731M2_10	Standard	250.000	3.51	172302.625	4925.332	437.287	260.2	4.1	NO	0.997	NO	bb

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.999797$

Calibration curve: $-0.00364043 * x^2 + 1.16681 * x + -0.0592153$

Response type: Internal Std (Ref 34), 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 170731M2_2	Standard	0.250	3.63	177.680	9927.280	0.224	0.2	-2.9	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	3.63	478.991	10315.116	0.580	0.5	9.8	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	3.63	943.278	11541.116	1.022	0.9	-7.1	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	3.63	1822.126	10131.339	2.248	2.0	-0.5	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	3.62	4473.807	9593.972	5.829	5.1	2.6	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	3.62	8896.104	10116.732	10.992	9.8	-2.3	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	3.63	38899.715	9833.309	49.449	50.3	0.7	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	3.63	74054.742	11556.366	80.102	99.7	-0.3	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	3.63	204101.719	18952.229	134.616			NO	1.000	NO	bbXI

Compound name: PFOA

Correlation coefficient: $r = 0.999910$, $r^2 = 0.999821$

Calibration curve: $0.953928 * x + 0.14566$

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 170731M2_2	Standard	0.250	3.64	1648.688	63401.359	0.325	0.2	-24.8	NO	1.000	NO	MM
2	2 170731M2_3	Standard	0.500	3.64	3703.540	67191.539	0.689	0.6	13.9	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	3.63	6322.338	70281.578	1.124	1.0	2.6	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	3.63	11893.063	66790.375	2.226	2.2	9.0	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	3.64	25166.590	63977.652	4.917	5.0	0.0	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	3.64	51478.270	67944.383	9.471	9.8	-2.2	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	3.64	233790.078	59813.004	48.859	51.1	2.1	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	3.64	508100.156	66783.320	95.102	99.5	-0.5	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	3.64	1538457.125	80782.586	238.055	249.4	-0.2	NO	1.000	NO	bb

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Compound name: PFHpS

Correlation coefficient: $r = 0.999006$, $r^2 = 0.998013$

Calibration curve: $0.0861619 * x + 0.0071876$

Response type: Internal Std (Ref 35), 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 170731M2_2	Standard	0.250	3.70	130.645	63401.359	0.026	0.2	-13.8	NO	0.998	NO	bb
2	2 170731M2_3	Standard	0.500	3.70	294.334	67191.539	0.055	0.6	10.4	NO	0.998	NO	bb
3	3 170731M2_4	Standard	1.000	3.69	538.985	70281.578	0.096	1.0	2.9	NO	0.998	NO	bb
4	4 170731M2_5	Standard	2.000	3.69	1018.044	66790.375	0.191	2.1	6.4	NO	0.998	NO	bb
5	5 170731M2_6	Standard	5.000	3.70	2421.679	63977.652	0.473	5.4	8.2	NO	0.998	NO	bb
6	6 170731M2_7	Standard	10.000	3.70	5311.248	67944.383	0.977	11.3	12.6	NO	0.998	NO	bb
7	7 170731M2_8	Standard	50.000	3.69	22461.885	59813.004	4.694	54.4	8.8	NO	0.998	NO	bb
8	8 170731M2_9	Standard	100.000	3.70	46378.051	66783.320	8.681	100.7	0.7	NO	0.998	NO	bb
9	9 170731M2_10	Standard	250.000	3.70	135410.438	80782.586	20.953	243.1	-2.8	NO	0.998	NO	bb

Compound name: PFNA

Correlation coefficient: $r = 0.999697$, $r^2 = 0.999394$

Calibration curve: $1.08541 * x + 0.0735739$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	0.250	3.81	1389.836	54018.730	0.322	0.2	-8.6	NO	0.999	NO	bb
2	2 170731M2_3	Standard	0.500	3.82	3272.709	62262.660	0.657	0.5	7.5	NO	0.999	NO	bb
3	3 170731M2_4	Standard	1.000	3.81	5627.537	61609.746	1.142	1.0	-1.6	NO	0.999	NO	bb
4	4 170731M2_5	Standard	2.000	3.81	10519.000	57196.430	2.299	2.1	2.5	NO	0.999	NO	bb
5	5 170731M2_6	Standard	5.000	3.82	23937.521	55674.484	5.374	4.9	-2.3	NO	0.999	NO	bb
6	6 170731M2_7	Standard	10.000	3.82	53188.000	59478.996	11.178	10.2	2.3	NO	0.999	NO	bb
7	7 170731M2_8	Standard	50.000	3.81	232756.781	51828.512	56.136	51.7	3.3	NO	0.999	NO	bb
8	8 170731M2_9	Standard	100.000	3.81	446148.219	53481.383	104.277	96.0	-4.0	NO	0.999	NO	bb
9	9 170731M2_10	Standard	250.000	3.82	1433063.500	65426.449	273.793	252.2	0.9	NO	0.999	NO	bb

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Compound name: PFOSA

Correlation coefficient: $r = 0.999883$, $r^2 = 0.999766$

Calibration curve: $1.0734 * x + -0.0271184$

Response type: Internal Std (Ref 37), 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 170731M2_2	Standard	0.250	3.83	130.593	6628.687	0.246	0.3	1.9	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	3.82	315.894	6757.332	0.584	0.6	13.9	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	3.83	559.472	7148.018	0.978	0.9	-6.3	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	3.83	1121.168	6732.580	2.082	2.0	-1.8	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	3.83	2778.576	6463.064	5.374	5.0	0.6	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	3.83	5384.216	6861.386	9.809	9.2	-8.4	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	3.83	24500.219	5762.874	53.142	49.5	-0.9	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	3.83	49243.563	5694.701	108.091	100.7	0.7	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	3.83	146323.297	6801.088	268.934	250.6	0.2	NO	1.000	NO	bb

Compound name: PFOS

Coefficient of Determination: $R^2 = 0.999779$

Calibration curve: $0.000313423 * x^2 + 1.01509 * x + 0.0486823$

Response type: Internal Std (Ref 38), 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 170731M2_2	Standard	0.250	3.86	262.377	9891.881	0.332	0.3	11.5	NO	1.000	NO	MM
2	2 170731M2_3	Standard	0.500	3.87	481.675	11460.590	0.525	0.5	-6.1	NO	1.000	NO	MM
3	3 170731M2_4	Standard	1.000	3.87	1088.575	11503.416	1.183	1.1	11.7	NO	1.000	NO	MM
4	4 170731M2_5	Standard	2.000	3.87	1856.085	10201.429	2.274	2.2	9.6	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	3.87	4259.738	10639.481	5.005	4.9	-2.5	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	3.87	9044.098	11768.862	9.606	9.4	-6.1	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	3.87	41100.910	9805.450	52.395	50.8	1.5	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	3.87	79111.719	9480.636	104.307	99.6	-0.4	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	3.87	250476.469	11450.712	273.429	250.0	0.0	NO	1.000	NO	bb

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Compound name: PFDA

Correlation coefficient: $r = 0.999542$, $r^2 = 0.999084$

Calibration curve: $1.19993 * x + 0.156566$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	0.250	3.98	1774.405	59781.418	0.371	0.2	-28.5	NO	0.999	NO	bb
2	2 170731M2_3	Standard	0.500	3.99	3704.363	61812.703	0.749	0.5	-1.2	NO	0.999	NO	bb
3	3 170731M2_4	Standard	1.000	3.99	7125.412	54053.125	1.648	1.2	24.3	NO	0.999	NO	bb
4	4 170731M2_5	Standard	2.000	3.98	11131.300	56405.016	2.467	1.9	-3.7	NO	0.999	NO	bb
5	5 170731M2_6	Standard	5.000	3.99	27851.160	53527.699	6.504	5.3	5.8	NO	0.999	NO	bb
6	6 170731M2_7	Standard	10.000	3.99	58244.602	58740.922	12.394	10.2	2.0	NO	0.999	NO	bb
7	7 170731M2_8	Standard	50.000	3.99	232759.141	46095.934	63.118	52.5	4.9	NO	0.999	NO	bb
8	8 170731M2_9	Standard	100.000	3.99	492152.594	53241.500	115.547	96.2	-3.8	NO	0.999	NO	bb
9	9 170731M2_10	Standard	250.000	3.99	1764954.750	73276.133	301.079	250.8	0.3	NO	0.999	NO	bb

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.999107$

Calibration curve: $-0.00477278 * x^2 + 1.45357 * x + 0.0233651$

Response type: Internal Std (Ref 40), 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 170731M2_2	Standard	0.250	3.98	133.416	5442.396	0.306	0.2	-22.1	NO	0.999	NO	bb
2	2 170731M2_3	Standard	0.500	3.99	391.677	6198.728	0.790	0.5	5.6	NO	0.999	NO	bb
3	3 170731M2_4	Standard	1.000	3.98	911.492	7001.858	1.627	1.1	10.7	NO	0.999	NO	bb
4	4 170731M2_5	Standard	2.000	3.98	1614.354	5984.115	3.372	2.3	16.1	NO	0.999	NO	bb
5	5 170731M2_6	Standard	5.000	3.98	3426.112	6043.006	7.087	4.9	-1.2	NO	0.999	NO	bb
6	6 170731M2_7	Standard	10.000	3.98	7395.563	6710.449	13.776	9.8	-2.2	NO	0.999	NO	bb
7	7 170731M2_8	Standard	50.000	3.98	30902.635	6400.762	60.350	49.6	-0.9	NO	0.999	NO	bb
8	8 170731M2_9	Standard	100.000	3.98	58744.098	7501.545	97.887	100.5	0.5	NO	0.999	NO	bb
9	9 170731M2_10	Standard	250.000	3.98	165445.906	12670.185	163.224			NO	0.999	NO	bbXI

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999795$

Calibration curve: $0.00169243 * x^2 + 17.7214 * x + 0.975242$

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 170731M2_2	Standard	0.250	4.02	367.535	12318.428	4.848	0.2	-12.6	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	4.02	784.251	14049.963	9.071	0.5	-8.6	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	4.02	1656.366	13356.303	20.152	1.1	8.2	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	4.02	3233.362	13264.592	39.611	2.2	9.0	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	4.02	7035.678	12616.413	90.620	5.1	1.1	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	4.02	15347.673	13566.270	183.838	10.3	3.1	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	4.02	69404.688	12476.236	903.980	50.7	1.4	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	4.02	135373.609	12518.632	1757.238	98.2	-1.8	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	4.02	419427.906	14988.046	4547.426	250.6	0.2	NO	1.000	NO	bb

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999924$

Calibration curve: $-0.0019298 * x^2 + 15.4647 * x + -0.327453$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	0.250	4.10	276.167	11737.404	3.823	0.3	7.4	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	4.09	591.342	13698.948	7.015	0.5	-5.0	NO	1.000	NO	bb
3	3 170731M2_4	Standard	1.000	4.08	1153.289	13688.059	13.691	0.9	-9.3	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	4.08	2299.673	12896.733	28.976	1.9	-5.2	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	4.09	5664.419	11500.281	80.039	5.2	4.0	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	4.09	12266.051	12932.044	154.131	10.0	0.0	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	4.09	56522.008	12029.896	763.500	49.7	-0.6	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	4.09	117651.883	12470.056	1533.147	100.4	0.4	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	4.09	380863.594	16532.346	3743.591	249.9	-0.0	NO	1.000	NO	bb

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Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.997941$

Calibration curve: $-3.28617e-005 * x^2 + 0.757566 * x + 0.0881327$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	0.250	4.15	1143.224	54062.352	0.264	0.2	-7.0	NO	0.998	NO	MM
2	2 170731M2_3	Standard	0.500	4.16	2356.846	65699.883	0.448	0.5	-4.9	NO	0.998	NO	bb
3	3 170731M2_4	Standard	1.000	4.15	4520.437	60141.438	0.940	1.1	12.4	NO	0.998	NO	bb
4	4 170731M2_5	Standard	2.000	4.15	8631.595	62558.703	1.725	2.2	8.0	NO	0.998	NO	bb
5	5 170731M2_6	Standard	5.000	4.15	18829.459	63691.332	3.695	4.8	-4.7	NO	0.998	NO	bb
6	6 170731M2_7	Standard	10.000	4.16	38130.637	62353.184	7.644	10.0	-0.2	NO	0.998	NO	bb
7	7 170731M2_8	Standard	50.000	4.15	174377.125	63269.566	34.451	45.4	-9.1	NO	0.998	NO	bb
8	8 170731M2_9	Standard	100.000	4.15	337593.438	52677.117	80.109	106.1	6.1	NO	0.998	NO	bb
9	9 170731M2_10	Standard	250.000	4.16	1108908.375	74412.180	186.278	248.5	-0.6	NO	0.998	NO	bb

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.997578$

Calibration curve: $-4.11818e-005 * x^2 + 0.0811765 * x + -0.0032981$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	0.250	4.20	86.193	54062.352	0.020	0.3	14.5	NO	0.998	NO	MMX
2	2 170731M2_3	Standard	0.500	4.21	180.557	65699.883	0.034	0.5	-7.2	NO	0.998	NO	MM
3	3 170731M2_4	Standard	1.000	4.19	431.861	60141.438	0.090	1.1	14.7	NO	0.998	NO	MM
4	4 170731M2_5	Standard	2.000	4.19	842.372	62558.703	0.168	2.1	5.8	NO	0.998	NO	bb
5	5 170731M2_6	Standard	5.000	4.20	1836.227	63691.332	0.360	4.5	-10.2	NO	0.998	NO	bb
6	6 170731M2_7	Standard	10.000	4.20	4003.412	62353.184	0.803	10.0	-0.2	NO	0.998	NO	bb
7	7 170731M2_8	Standard	50.000	4.20	18296.340	63269.566	3.615	45.6	-8.7	NO	0.998	NO	bb
8	8 170731M2_9	Standard	100.000	4.20	34524.848	52677.117	8.193	106.7	6.7	NO	0.998	NO	bb
9	9 170731M2_10	Standard	250.000	4.20	104708.711	74412.180	17.589	247.9	-0.8	NO	0.998	NO	bb

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Compound name: PFD_oA

Coefficient of Determination: $R^2 = 0.999599$

Calibration curve: $-9.87083e-006 * x^2 + 0.940673 * x + 0.00742583$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	0.250	4.31	97.386	6100.251	0.200	0.2	-18.3	NO	1.000	NO	MM
2	2 170731M2_3	Standard	0.500	4.31	297.108	6198.730	0.599	0.6	25.8	NO	1.000	NO	MM
3	3 170731M2_4	Standard	1.000	4.32	486.738	6089.570	0.999	1.1	5.4	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	4.31	821.016	5996.160	1.712	1.8	-9.4	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	4.31	2199.727	5858.786	4.693	5.0	-0.4	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	4.31	4813.721	6554.075	9.181	9.8	-2.5	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	4.31	20853.395	5701.481	45.719	48.6	-2.8	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	4.31	46647.582	6062.306	96.184	102.4	2.4	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	4.31	145761.844	7788.229	233.946	249.3	-0.3	NO	1.000	NO	bb

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.998345$, $r^2 = 0.996693$

Calibration curve: $1.00604 * x + 0.235716$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	1.250	4.35	171.072	22996.787	1.116	0.9	-30.0	NO	0.997	NO	MM
2	2 170731M2_3	Standard	2.500	4.34	482.139	25726.459	2.811	2.6	2.4	NO	0.997	NO	bb
3	3 170731M2_4	Standard	5.000	4.34	982.633	25550.789	5.769	5.5	10.0	NO	0.997	NO	bb
4	4 170731M2_5	Standard	10.000	4.34	1926.980	24786.727	11.661	11.4	13.6	NO	0.997	NO	bb
5	5 170731M2_6	Standard	25.000	4.34	4419.905	23582.914	28.113	27.7	10.8	NO	0.997	NO	bb
6	6 170731M2_7	Standard	50.000	4.35	8956.011	26155.398	51.362	50.8	1.6	NO	0.997	NO	db
7	7 170731M2_8	Standard	250.000	4.34	42345.395	23085.887	275.138	273.3	9.3	NO	0.997	NO	db
8	8 170731M2_9	Standard	500.000	4.35	84341.039	23835.992	530.759	527.3	5.5	NO	0.997	NO	bb
9	9 170731M2_10	Standard	1250.000	4.35	300837.125	37548.465	1201.795	1194.3	-4.5	NO	0.997	NO	bb

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Compound name: PFTrDA

Correlation coefficient: $r = 0.999725$, $r^2 = 0.999450$

Calibration curve: $10.3774 * x + 1.19316$

Response type: Internal Std (Ref 44), 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 170731M2_2	Standard	0.250	4.48	1546.429	6100.251	3.169	0.2	-23.8	NO	0.999	NO	bb
2	2 170731M2_3	Standard	0.500	4.49	3084.918	6198.730	6.221	0.5	-3.1	NO	0.999	NO	bb
3	3 170731M2_4	Standard	1.000	4.49	6341.854	6089.570	13.018	1.1	13.9	NO	0.999	NO	bb
4	4 170731M2_5	Standard	2.000	4.48	11501.922	5996.160	23.978	2.2	9.8	NO	0.999	NO	bb
5	5 170731M2_6	Standard	5.000	4.48	25400.311	5858.786	54.193	5.1	2.1	NO	0.999	NO	bb
6	6 170731M2_7	Standard	10.000	4.49	54547.922	6554.075	104.034	9.9	-0.9	NO	0.999	NO	bb
7	7 170731M2_8	Standard	50.000	4.48	247945.563	5701.481	543.599	52.3	4.5	NO	0.999	NO	bb
8	8 170731M2_9	Standard	100.000	4.48	490967.313	6062.306	1012.336	97.4	-2.6	NO	0.999	NO	bb
9	9 170731M2_10	Standard	250.000	4.49	1617289.125	7788.229	2595.727	250.0	0.0	NO	0.999	NO	bb

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999821$

Calibration curve: $-0.000206845 * x^2 + 1.07301 * x + 0.115151$

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 170731M2_2	Standard	0.250	4.66	1070.982	38964.742	0.344	0.2	-14.8	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	4.66	2242.796	43108.695	0.650	0.5	-0.2	NO	1.000	NO	db
3	3 170731M2_4	Standard	1.000	4.66	4228.840	43416.883	1.218	1.0	2.8	NO	1.000	NO	bb
4	4 170731M2_5	Standard	2.000	4.66	8124.685	42363.957	2.397	2.1	6.4	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	4.66	18184.229	38970.395	5.833	5.3	6.7	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	4.66	36936.945	42258.219	10.926	10.1	0.9	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	4.66	166736.000	40066.441	52.019	48.8	-2.3	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	4.66	335759.844	39581.660	106.034	100.7	0.7	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	4.67	1095646.375	53624.324	255.399	250.0	-0.0	NO	1.000	NO	bb

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Compound name: N-EtFOSA

Correlation coefficient: $r = 0.999415$, $r^2 = 0.998831$

Calibration curve: $0.921854 * x + 0.382781$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	1.250	4.92	281.374	32355.941	1.304	1.0	-20.0	NO	0.999	NO	bb
2	2 170731M2_3	Standard	2.500	4.93	566.467	35601.133	2.387	2.2	-13.0	NO	0.999	NO	bb
3	3 170731M2_4	Standard	5.000	4.93	1233.600	34205.117	5.410	5.5	9.1	NO	0.999	NO	bb
4	4 170731M2_5	Standard	10.000	4.92	2359.483	33521.320	10.558	11.0	10.4	NO	0.999	NO	bb
5	5 170731M2_6	Standard	25.000	4.92	5411.886	32043.641	25.334	27.1	8.3	NO	0.999	NO	db
6	6 170731M2_7	Standard	50.000	4.93	10900.199	34405.922	47.522	51.1	2.3	NO	0.999	NO	bb
7	7 170731M2_8	Standard	250.000	4.92	50732.695	32776.059	232.179	251.4	0.6	NO	0.999	NO	db
8	8 170731M2_9	Standard	500.000	4.92	104693.227	32444.443	484.027	524.6	4.9	NO	0.999	NO	bb
9	9 170731M2_10	Standard	1250.000	4.93	373166.781	49761.906	1124.857	1219.8	-2.4	NO	0.999	NO	db

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.999687$

Calibration curve: $-0.000332417 * x^2 + 1.25821 * x + 0.243616$

Response type: Internal Std (Ref 48), 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 170731M2_2	Standard	0.250	5.03	1832.064	18578.701	0.493	0.2	-20.7	NO	1.000	NO	bb
2	2 170731M2_3	Standard	0.500	5.03	3655.248	21305.383	0.858	0.5	-2.4	NO	1.000	NO	bd
3	3 170731M2_4	Standard	1.000	5.03	6457.158	21093.645	1.531	1.0	2.3	NO	1.000	NO	db
4	4 170731M2_5	Standard	2.000	5.03	12237.453	20624.443	2.967	2.2	8.3	NO	1.000	NO	bb
5	5 170731M2_6	Standard	5.000	5.03	27610.768	19494.348	7.082	5.4	8.9	NO	1.000	NO	bb
6	6 170731M2_7	Standard	10.000	5.03	55985.383	20781.805	13.470	10.5	5.4	NO	1.000	NO	bb
7	7 170731M2_8	Standard	50.000	5.03	245522.141	19811.059	61.966	49.7	-0.6	NO	1.000	NO	bb
8	8 170731M2_9	Standard	100.000	5.03	490538.219	20275.766	120.967	98.5	-1.5	NO	1.000	NO	bb
9	9 170731M2_10	Standard	250.000	5.04	1614512.375	27386.783	294.761	250.7	0.3	NO	1.000	NO	bb

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Compound name: PFODA

Correlation coefficient: $r = 0.998537$, $r^2 = 0.997077$

Calibration curve: $1.12504 * x + 0.153988$

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 170731M2_2	Standard	0.250	5.40	1427.299	18578.701	0.384	0.2	-18.2	NO	0.997	NO	bb
2	2 170731M2_3	Standard	0.500	5.40	3408.691	21305.383	0.800	0.6	14.8	NO	0.997	NO	MM
3	3 170731M2_4	Standard	1.000	5.40	5937.597	21093.645	1.407	1.1	11.4	NO	0.997	NO	bb
4	4 170731M2_5	Standard	2.000	5.40	11189.688	20624.443	2.713	2.3	13.7	NO	0.997	NO	bb
5	5 170731M2_6	Standard	5.000	5.40	25545.443	19494.348	6.552	5.7	13.7	NO	0.997	NO	bb
6	6 170731M2_7	Standard	10.000	5.40	53019.988	20781.805	12.756	11.2	12.0	NO	0.997	NO	bb
7	7 170731M2_8	Standard	50.000	5.40	239072.719	19811.059	60.338	53.5	7.0	NO	0.997	NO	bb
8	8 170731M2_9	Standard	100.000	5.40	476093.531	20275.766	117.405	104.2	4.2	NO	0.997	NO	bb
9	9 170731M2_10	Standard	250.000	5.40	1479649.750	27386.783	270.139	240.0	-4.0	NO	0.997	NO	bb

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.999653$, $r^2 = 0.999306$

Calibration curve: $1.02661 * x + 0.421311$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	1.250	5.44	362.749	38065.852	1.429	1.0	-21.4	NO	0.999	NO	bb
2	2 170731M2_3	Standard	2.500	5.44	750.944	40818.066	2.760	2.3	-8.9	NO	0.999	NO	bb
3	3 170731M2_4	Standard	5.000	5.44	1644.402	40754.777	6.052	5.5	9.7	NO	0.999	NO	bb
4	4 170731M2_5	Standard	10.000	5.44	3091.344	39794.629	11.652	10.9	9.4	NO	0.999	NO	bb
5	5 170731M2_6	Standard	25.000	5.44	6838.694	38172.813	26.873	25.8	3.1	NO	0.999	NO	bb
6	6 170731M2_7	Standard	50.000	5.44	14673.296	40819.426	53.920	52.1	4.2	NO	0.999	NO	bb
7	7 170731M2_8	Standard	250.000	5.44	66914.719	37733.039	266.006	258.7	3.5	NO	0.999	NO	bb
8	8 170731M2_9	Standard	500.000	5.44	138132.109	39369.297	526.294	512.2	2.4	NO	0.999	NO	bb
9	9 170731M2_10	Standard	1250.000	5.45	499589.844	59556.500	1258.275	1225.2	-2.0	NO	0.999	NO	bb

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.999481$, $r^2 = 0.998963$

Calibration curve: $1.14913 * x + 1.24499$

Response type: Internal Std (Ref 50), 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 170731M2_2	Standard	1.250	5.62	424.316	37434.258	1.700	0.4	-68.3	NO	0.999	NO	MMX
2	2 170731M2_3	Standard	2.500	5.62	1021.850	40953.574	3.743	2.2	-13.1	NO	0.999	NO	MM
3	3 170731M2_4	Standard	5.000	5.62	1868.327	40593.066	6.904	4.9	-1.5	NO	0.999	NO	bb
4	4 170731M2_5	Standard	10.000	5.62	3452.958	39083.969	13.252	10.4	4.5	NO	0.999	NO	bb
5	5 170731M2_6	Standard	25.000	5.62	7821.364	37934.445	30.927	25.8	3.3	NO	0.999	NO	bb
6	6 170731M2_7	Standard	50.000	5.62	16071.865	40396.703	59.678	50.8	1.7	NO	0.999	NO	bb
7	7 170731M2_8	Standard	250.000	5.62	74830.914	37673.949	297.942	258.2	3.3	NO	0.999	NO	bb
8	8 170731M2_9	Standard	500.000	5.62	156146.688	39004.324	600.498	521.5	4.3	NO	0.999	NO	bb
9	9 170731M2_10	Standard	1250.000	5.62	563632.000	60321.027	1401.581	1218.6	-2.5	NO	0.999	NO	bb

Compound name: 13C3-PFBA

Response Factor: 1.00566

RRF SD: 0.070969, Relative SD: 7.05699

Response type: Internal Std (Ref 51), 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 170731M2_2	Standard	12.500	1.41	13874.437	13370.174	12.971	12.9	3.2	NO		NO	MM
2	2 170731M2_3	Standard	12.500	1.40	14032.984	14138.808	12.406	12.3	-1.3	NO		NO	bb
3	3 170731M2_4	Standard	12.500	1.40	14534.191	13876.813	13.092	13.0	4.1	NO		NO	bb
4	4 170731M2_5	Standard	12.500	1.40	13825.355	13352.213	12.943	12.9	3.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	1.40	14375.643	13996.207	12.839	12.8	2.1	NO		NO	bb
6	6 170731M2_7	Standard	12.500	1.40	14275.662	13824.148	12.908	12.8	2.7	NO		NO	bb
7	7 170731M2_8	Standard	12.500	1.40	13941.181	13506.435	12.902	12.8	2.6	NO		NO	bb
8	8 170731M2_9	Standard	12.500	1.40	14182.987	13834.986	12.814	12.7	1.9	NO		NO	bb
9	9 170731M2_10	Standard	12.500	1.41	20278.131	24706.939	10.259	10.2	-18.4	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.275215

RRF SD: 0.0314917, Relative SD: 11.4426

Response type: Internal Std (Ref 52), 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 170731M2_2	Standard	12.500	2.69	28315.961	38888.445	3.641	13.2	5.8	NO		NO	bb
2	2 170731M2_3	Standard	12.500	2.69	28971.373	39697.934	3.649	13.3	6.1	NO		NO	MM
3	3 170731M2_4	Standard	12.500	2.69	29344.844	39547.027	3.710	13.5	7.8	NO		NO	MM
4	4 170731M2_5	Standard	12.500	2.69	27224.277	39438.602	3.451	12.5	0.3	NO		NO	MM
5	5 170731M2_6	Standard	12.500	2.69	28900.883	42060.418	3.436	12.5	-0.1	NO		NO	MM
6	6 170731M2_7	Standard	12.500	2.69	28928.092	40025.766	3.614	13.1	5.0	NO		NO	bb
7	7 170731M2_8	Standard	12.500	2.69	27958.209	39102.801	3.575	13.0	3.9	NO		NO	MM
8	8 170731M2_9	Standard	12.500	2.69	27418.373	39589.105	3.463	12.6	0.7	NO		NO	MM
9	9 170731M2_10	Standard	12.500	2.70	40599.961	83770.414	2.423	8.8	-29.6	NO		NO	MM

Compound name: 13C3-PFBS

Response Factor: 0.0341202

RRF SD: 0.00479083, Relative SD: 14.041

Response type: Internal Std (Ref 52), 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 170731M2_2	Standard	12.500	2.93	3567.166	38888.445	0.459	13.4	7.5	NO		NO	bb
2	2 170731M2_3	Standard	12.500	2.92	3674.875	39697.934	0.463	13.6	8.5	NO		NO	bb
3	3 170731M2_4	Standard	12.500	2.92	3756.884	39547.027	0.475	13.9	11.4	NO		NO	bb
4	4 170731M2_5	Standard	12.500	2.92	3453.801	39438.602	0.438	12.8	2.7	NO		NO	bb
5	5 170731M2_6	Standard	12.500	2.93	3669.754	42060.418	0.436	12.8	2.3	NO		NO	bb
6	6 170731M2_7	Standard	12.500	2.93	3495.072	40025.766	0.437	12.8	2.4	NO		NO	bb
7	7 170731M2_8	Standard	12.500	2.92	3386.169	39102.801	0.433	12.7	1.5	NO		NO	bb
8	8 170731M2_9	Standard	12.500	2.92	3369.060	39589.105	0.426	12.5	-0.2	NO		NO	bb
9	9 170731M2_10	Standard	12.500	2.93	4571.001	83770.414	0.273	8.0	-36.0	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.334017

RRF SD: 0.0197264, Relative SD: 5.90582

Response type: Internal Std (Ref 52), 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 170731M2_2	Standard	5.000	3.16	13289.316	38888.445	1.709	5.1	2.3	NO		NO	bb
2	2 170731M2_3	Standard	5.000	3.17	13996.411	39697.934	1.763	5.3	5.6	NO		NO	bb
3	3 170731M2_4	Standard	5.000	3.16	13471.391	39547.027	1.703	5.1	2.0	NO		NO	bb
4	4 170731M2_5	Standard	5.000	3.16	13180.728	39438.602	1.671	5.0	0.1	NO		NO	bb
5	5 170731M2_6	Standard	5.000	3.16	14300.003	42060.418	1.700	5.1	1.8	NO		NO	bb
6	6 170731M2_7	Standard	5.000	3.17	13464.359	40025.766	1.682	5.0	0.7	NO		NO	bb
7	7 170731M2_8	Standard	5.000	3.16	13579.439	39102.801	1.736	5.2	4.0	NO		NO	bb
8	8 170731M2_9	Standard	5.000	3.17	13004.882	39589.105	1.642	4.9	-1.7	NO		NO	bb
9	9 170731M2_10	Standard	5.000	3.16	23861.670	83770.414	1.424	4.3	-14.7	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.414287

RRF SD: 0.0516844, Relative SD: 12.4755

Response type: Internal Std (Ref 52), 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 170731M2_2	Standard	12.500	3.43	42267.941	38888.445	5.435	13.1	4.9	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.43	44035.770	39697.934	5.546	13.4	7.1	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.43	47111.973	39547.027	5.956	14.4	15.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.43	40041.188	39438.602	5.076	12.3	-2.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.43	43531.445	42060.418	5.175	12.5	-0.1	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.43	41835.402	40025.766	5.226	12.6	0.9	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.43	42486.371	39102.801	5.433	13.1	4.9	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.44	40762.777	39589.105	5.148	12.4	-0.6	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.43	60510.934	83770.414	3.612	8.7	-30.3	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.475307

RRF SD: 0.0429846, Relative SD: 9.04355

Response type: Internal Std (Ref 53), 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 170731M2_2	Standard	12.500	3.50	4105.498	8046.377	6.378	13.4	7.3	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.51	4057.192	8495.484	5.970	12.6	0.5	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.50	4402.638	8882.063	6.196	13.0	4.3	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.50	3891.568	8188.101	5.941	12.5	-0.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.50	3878.935	8591.091	5.644	11.9	-5.0	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.51	3978.140	8363.203	5.946	12.5	0.1	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.51	3932.861	7776.584	6.322	13.3	6.4	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.51	4159.138	8119.819	6.403	13.5	7.8	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.51	4925.332	13173.476	4.674	9.8	-21.3	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.213903

RRF SD: 0.0188493, Relative SD: 8.81207

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 170731M2_2	Standard	12.500	3.63	9927.280	45613.742	2.720	12.7	1.7	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.63	10315.116	51389.625	2.509	11.7	-6.2	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.62	11541.119	54967.332	2.625	12.3	-1.8	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.62	10131.339	48131.012	2.631	12.3	-1.6	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.63	9593.972	48854.391	2.455	11.5	-8.2	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.63	10116.732	49711.629	2.544	11.9	-4.9	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.63	9833.309	49752.918	2.471	11.5	-7.6	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.63	11556.366	48614.910	2.971	13.9	11.1	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.63	18952.229	75486.695	3.138	14.7	17.4	NO		NO	bb

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Compound name: 13C2-PFOA

Response Factor: 1.29846

RRF SD: 0.105268, Relative SD: 8.10711

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 170731M2_2	Standard	12.500	3.64	63401.359	45613.742	17.375	13.4	7.0	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.64	67191.539	51389.625	16.344	12.6	0.7	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.63	70281.578	54967.332	15.983	12.3	-1.5	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.63	66790.375	48131.012	17.346	13.4	6.9	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.64	63977.652	48854.391	16.369	12.6	0.9	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.64	67944.383	49711.629	17.085	13.2	5.3	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.64	59813.004	49752.918	15.028	11.6	-7.4	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.64	66783.320	48614.910	17.172	13.2	5.8	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.64	80782.586	75486.695	13.377	10.3	-17.6	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 1.09418

RRF SD: 0.111771, Relative SD: 10.2151

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 170731M2_2	Standard	12.500	3.81	54018.730	48472.340	13.930	12.7	1.9	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.82	62262.660	53412.238	14.571	13.3	6.5	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.81	61609.746	53921.699	14.282	13.1	4.4	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.81	57196.430	54390.477	13.145	12.0	-3.9	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.82	55674.484	50780.711	13.705	12.5	0.2	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.81	59478.996	55837.012	13.315	12.2	-2.6	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.81	51828.512	44552.844	14.541	13.3	6.3	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.81	53481.383	43921.875	15.221	13.9	11.3	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.82	65426.449	78755.734	10.384	9.5	-24.1	NO		NO	bb

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Compound name: 13C8-PFOSA

Response Factor: 0.124457

RRF SD: 0.0171532, Relative SD: 13.7824

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 170731M2_2	Standard	12.500	3.82	6628.687	46687.762	1.775	14.3	14.1	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.83	6757.332	55126.090	1.532	12.3	-1.5	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.82	7148.018	52064.938	1.716	13.8	10.3	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.82	6732.580	55069.406	1.528	12.3	-1.8	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.83	6463.064	48450.305	1.667	13.4	7.2	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.83	6861.386	50457.156	1.700	13.7	9.3	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.82	5762.874	52556.180	1.371	11.0	-11.9	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.83	5694.701	43779.801	1.626	13.1	4.5	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.83	6801.088	78259.594	1.086	8.7	-30.2	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 1.15331

RRF SD: 0.0926176, Relative SD: 8.03062

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 170731M2_2	Standard	12.500	3.87	9891.881	9416.050	13.132	11.4	-8.9	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.87	11460.590	9484.859	15.104	13.1	4.8	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.87	11503.416	9437.330	15.237	13.2	5.7	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.87	10201.429	8900.184	14.328	12.4	-0.6	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.87	10639.481	9014.546	14.753	12.8	2.3	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.87	11768.862	8997.038	16.351	14.2	13.4	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.87	9805.450	8503.210	14.414	12.5	-0.0	NO		NO	bd
8	8 170731M2_9	Standard	12.500	3.87	9480.636	8476.880	13.980	12.1	-3.0	NO		NO	bd
9	9 170731M2_10	Standard	12.500	3.87	11450.712	11498.018	12.449	10.8	-13.6	NO		NO	bd

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Compound name: 13C2-PFDA

Response Factor: 1.05862

RRF SD: 0.102606, Relative SD: 9.69247

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 170731M2_2	Standard	12.500	3.99	59781.418	48495.309	15.409	14.6	16.4	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.99	61812.703	59901.941	12.899	12.2	-2.5	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.99	54053.125	59169.184	11.419	10.8	-13.7	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.98	56405.016	50594.809	13.935	13.2	5.3	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.99	53527.699	46199.484	14.483	13.7	9.4	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.99	58740.922	55659.504	13.192	12.5	-0.3	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.99	46095.934	46843.121	12.301	11.6	-7.0	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.99	53241.500	48865.242	13.619	12.9	2.9	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.99	73276.133	77377.094	11.838	11.2	-10.5	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.128621

RRF SD: 0.0196887, Relative SD: 15.3075

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 170731M2_2	Standard	12.500	3.98	5442.396	48495.309	1.403	10.9	-12.7	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.98	6198.728	59901.941	1.294	10.1	-19.5	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.98	7001.858	59169.184	1.479	11.5	-8.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.98	5984.115	50594.809	1.478	11.5	-8.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.98	6043.006	46199.484	1.635	12.7	1.7	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.98	6710.449	55659.504	1.507	11.7	-6.3	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.98	6400.762	46843.121	1.708	13.3	6.2	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.98	7501.545	48865.242	1.919	14.9	19.4	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.98	12670.185	77377.094	2.047	15.9	27.3	NO		NO	bb

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Compound name: d3-N-MeFOSAA

Response Factor: 0.0193183

RRF SD: 0.00204703, Relative SD: 10.5963

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 170731M2_2	Standard	162.500	4.02	12318.428	46687.762	3.298	170.7	5.1	NO		NO	bb
2	2 170731M2_3	Standard	162.500	4.02	14049.963	55126.090	3.186	164.9	1.5	NO		NO	bb
3	3 170731M2_4	Standard	162.500	4.02	13356.303	52064.938	3.207	166.0	2.1	NO		NO	bb
4	4 170731M2_5	Standard	162.500	4.01	13264.592	55069.406	3.011	155.9	-4.1	NO		NO	bb
5	5 170731M2_6	Standard	162.500	4.02	12616.413	48450.305	3.255	168.5	3.7	NO		NO	bb
6	6 170731M2_7	Standard	162.500	4.02	13566.270	50457.156	3.361	174.0	7.1	NO		NO	bb
7	7 170731M2_8	Standard	162.500	4.01	12476.236	52556.180	2.967	153.6	-5.5	NO		NO	bb
8	8 170731M2_9	Standard	162.500	4.02	12518.632	43779.801	3.574	185.0	13.9	NO		NO	bb
9	9 170731M2_10	Standard	162.500	4.02	14988.046	78259.594	2.394	123.9	-23.7	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.0189371

RRF SD: 0.00164292, Relative SD: 8.67569

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 170731M2_2	Standard	162.500	4.08	11737.404	46687.762	3.143	165.9	2.1	NO		NO	bb
2	2 170731M2_3	Standard	162.500	4.08	13698.948	55126.090	3.106	164.0	0.9	NO		NO	bb
3	3 170731M2_4	Standard	162.500	4.08	13688.059	52064.938	3.286	173.5	6.8	NO		NO	bb
4	4 170731M2_5	Standard	162.500	4.08	12896.733	55069.406	2.927	154.6	-4.9	NO		NO	bb
5	5 170731M2_6	Standard	162.500	4.08	11500.281	48450.305	2.967	156.7	-3.6	NO		NO	bb
6	6 170731M2_7	Standard	162.500	4.08	12932.044	50457.156	3.204	169.2	4.1	NO		NO	bb
7	7 170731M2_8	Standard	162.500	4.08	12029.896	52556.180	2.861	151.1	-7.0	NO		NO	bb
8	8 170731M2_9	Standard	162.500	4.08	12470.056	43779.801	3.560	188.0	15.7	NO		NO	bb
9	9 170731M2_10	Standard	162.500	4.09	16532.346	78259.594	2.641	139.4	-14.2	NO		NO	bb

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Compound name: 13C2-PFUnA

Response Factor: 1.17213

RRF SD: 0.0984029, Relative SD: 8.39524

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 170731M2_2	Standard	12.500	4.15	54062.352	46687.762	14.474	12.3	-1.2	NO		NO	bb
2	2 170731M2_3	Standard	12.500	4.15	65699.883	55126.090	14.898	12.7	1.7	NO		NO	bb
3	3 170731M2_4	Standard	12.500	4.15	60141.438	52064.938	14.439	12.3	-1.5	NO		NO	bb
4	4 170731M2_5	Standard	12.500	4.15	62558.703	55069.406	14.200	12.1	-3.1	NO		NO	bb
5	5 170731M2_6	Standard	12.500	4.15	63691.332	48450.305	16.432	14.0	12.2	NO		NO	bb
6	6 170731M2_7	Standard	12.500	4.16	62353.184	50457.156	15.447	13.2	5.4	NO		NO	bb
7	7 170731M2_8	Standard	12.500	4.15	63269.566	52556.180	15.048	12.8	2.7	NO		NO	bb
8	8 170731M2_9	Standard	12.500	4.15	52677.117	43779.801	15.040	12.8	2.7	NO		NO	bb
9	9 170731M2_10	Standard	12.500	4.16	74412.180	78259.594	11.885	10.1	-18.9	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.118471

RRF SD: 0.0126225, Relative SD: 10.6544

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 170731M2_2	Standard	12.500	4.31	6100.251	46687.762	1.633	13.8	10.3	NO		NO	bb
2	2 170731M2_3	Standard	12.500	4.31	6198.730	55126.090	1.406	11.9	-5.1	NO		NO	bb
3	3 170731M2_4	Standard	12.500	4.31	6089.570	52064.938	1.462	12.3	-1.3	NO		NO	bb
4	4 170731M2_5	Standard	12.500	4.31	5996.160	55069.406	1.361	11.5	-8.1	NO		NO	bb
5	5 170731M2_6	Standard	12.500	4.31	5858.786	48450.305	1.512	12.8	2.1	NO		NO	bb
6	6 170731M2_7	Standard	12.500	4.31	6554.075	50457.156	1.624	13.7	9.6	NO		NO	bb
7	7 170731M2_8	Standard	12.500	4.31	5701.481	52556.180	1.356	11.4	-8.4	NO		NO	bb
8	8 170731M2_9	Standard	12.500	4.31	6062.306	43779.801	1.731	14.6	16.9	NO		NO	bb
9	9 170731M2_10	Standard	12.500	4.31	7788.229	78259.594	1.244	10.5	-16.0	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.0404511

RRF SD: 0.0027023, Relative SD: 6.68042

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 170731M2_2	Standard	150.000	4.38	22996.787	46687.762	6.157	152.2	1.5	NO		NO	MM
2	2 170731M2_3	Standard	150.000	4.38	25726.459	55126.090	5.834	144.2	-3.9	NO		NO	bb
3	3 170731M2_4	Standard	150.000	4.38	25550.789	52064.938	6.134	151.6	1.1	NO		NO	bb
4	4 170731M2_5	Standard	150.000	4.38	24786.727	55069.406	5.626	139.1	-7.3	NO		NO	db
5	5 170731M2_6	Standard	150.000	4.38	23582.914	48450.305	6.084	150.4	0.3	NO		NO	bb
6	6 170731M2_7	Standard	150.000	4.38	26155.398	50457.156	6.480	160.2	6.8	NO		NO	bb
7	7 170731M2_8	Standard	150.000	4.38	23085.887	52556.180	5.491	135.7	-9.5	NO		NO	bb
8	8 170731M2_9	Standard	150.000	4.38	23835.992	43779.801	6.806	168.2	12.2	NO		NO	bb
9	9 170731M2_10	Standard	150.000	4.38	37548.465	78259.594	5.997	148.3	-1.2	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.801476

RRF SD: 0.0616954, Relative SD: 7.69773

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 170731M2_2	Standard	12.500	4.66	38964.742	46687.762	10.432	13.0	4.1	NO		NO	bb
2	2 170731M2_3	Standard	12.500	4.66	43108.695	55126.090	9.775	12.2	-2.4	NO		NO	bb
3	3 170731M2_4	Standard	12.500	4.66	43416.883	52064.938	10.424	13.0	4.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	4.66	42363.957	55069.406	9.616	12.0	-4.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	4.66	38970.395	48450.305	10.054	12.5	0.4	NO		NO	bb
6	6 170731M2_7	Standard	12.500	4.66	42258.219	50457.156	10.469	13.1	4.5	NO		NO	bb
7	7 170731M2_8	Standard	12.500	4.66	40066.441	52556.180	9.529	11.9	-4.9	NO		NO	bb
8	8 170731M2_9	Standard	12.500	4.66	39581.660	43779.801	11.301	14.1	12.8	NO		NO	bb
9	9 170731M2_10	Standard	12.500	4.66	53624.324	78259.594	8.565	10.7	-14.5	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.0550774

RRF SD: 0.0033443, Relative SD: 6.07201

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 170731M2_2	Standard	150.000	4.97	32355.941	46687.762	8.663	157.3	4.9	NO		NO	bb
2	2 170731M2_3	Standard	150.000	4.97	35601.133	55126.090	8.073	146.6	-2.3	NO		NO	bb
3	3 170731M2_4	Standard	150.000	4.97	34205.117	52064.938	8.212	149.1	-0.6	NO		NO	bb
4	4 170731M2_5	Standard	150.000	4.97	33521.320	55069.406	7.609	138.1	-7.9	NO		NO	bb
5	5 170731M2_6	Standard	150.000	4.97	32043.641	48450.305	8.267	150.1	0.1	NO		NO	bb
6	6 170731M2_7	Standard	150.000	4.97	34405.922	50457.156	8.524	154.8	3.2	NO		NO	bb
7	7 170731M2_8	Standard	150.000	4.97	32776.059	52556.180	7.795	141.5	-5.6	NO		NO	bd
8	8 170731M2_9	Standard	150.000	4.97	32444.443	43779.801	9.264	168.2	12.1	NO		NO	bb
9	9 170731M2_10	Standard	150.000	4.98	49761.906	78259.594	7.948	144.3	-3.8	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.991204

RRF SD: 0.0786595, Relative SD: 7.93575

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 170731M2_2	Standard	5.000	5.03	18578.701	46687.762	4.974	5.0	0.4	NO		NO	bb
2	2 170731M2_3	Standard	5.000	5.03	21305.383	55126.090	4.831	4.9	-2.5	NO		NO	bb
3	3 170731M2_4	Standard	5.000	5.03	21093.645	52064.938	5.064	5.1	2.2	NO		NO	bb
4	4 170731M2_5	Standard	5.000	5.03	20624.443	55069.406	4.681	4.7	-5.5	NO		NO	bb
5	5 170731M2_6	Standard	5.000	5.03	19494.348	48450.305	5.029	5.1	1.5	NO		NO	bb
6	6 170731M2_7	Standard	5.000	5.03	20781.805	50457.156	5.148	5.2	3.9	NO		NO	bb
7	7 170731M2_8	Standard	5.000	5.03	19811.059	52556.180	4.712	4.8	-4.9	NO		NO	bb
8	8 170731M2_9	Standard	5.000	5.03	20275.766	43779.801	5.789	5.8	16.8	NO		NO	bb
9	9 170731M2_10	Standard	5.000	5.04	27386.783	78259.594	4.374	4.4	-11.7	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.0651506

RRF SD: 0.00469717, Relative SD: 7.20972

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 170731M2_2	Standard	150.000	5.43	38065.852	46687.762	10.192	156.4	4.3	NO		NO	bb
2	2 170731M2_3	Standard	150.000	5.43	40818.066	55126.090	9.256	142.1	-5.3	NO		NO	bb
3	3 170731M2_4	Standard	150.000	5.43	40754.777	52064.938	9.785	150.2	0.1	NO		NO	bb
4	4 170731M2_5	Standard	150.000	5.43	39794.629	55069.406	9.033	138.6	-7.6	NO		NO	bb
5	5 170731M2_6	Standard	150.000	5.43	38172.813	48450.305	9.848	151.2	0.8	NO		NO	bb
6	6 170731M2_7	Standard	150.000	5.43	40819.426	50457.156	10.112	155.2	3.5	NO		NO	bb
7	7 170731M2_8	Standard	150.000	5.43	37733.039	52556.180	8.974	137.7	-8.2	NO		NO	bb
8	8 170731M2_9	Standard	150.000	5.43	39369.297	43779.801	11.241	172.5	15.0	NO		NO	bb
9	9 170731M2_10	Standard	150.000	5.43	59556.500	78259.594	9.513	146.0	-2.7	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.0647796

RRF SD: 0.00452035, Relative SD: 6.97805

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 170731M2_2	Standard	150.000	5.61	37434.258	46687.762	10.023	154.7	3.1	NO		NO	bb
2	2 170731M2_3	Standard	150.000	5.61	40953.574	55126.090	9.286	143.4	-4.4	NO		NO	bb
3	3 170731M2_4	Standard	150.000	5.61	40593.066	52064.938	9.746	150.4	0.3	NO		NO	bb
4	4 170731M2_5	Standard	150.000	5.61	39083.969	55069.406	8.872	136.9	-8.7	NO		NO	bb
5	5 170731M2_6	Standard	150.000	5.60	37934.445	48450.305	9.787	151.1	0.7	NO		NO	bb
6	6 170731M2_7	Standard	150.000	5.61	40396.703	50457.156	10.008	154.5	3.0	NO		NO	bb
7	7 170731M2_8	Standard	150.000	5.61	37673.949	52556.180	8.960	138.3	-7.8	NO		NO	bb
8	8 170731M2_9	Standard	150.000	5.60	39004.324	43779.801	11.137	171.9	14.6	NO		NO	bb
9	9 170731M2_10	Standard	150.000	5.61	60321.027	78259.594	9.635	148.7	-0.8	NO		NO	bb

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 51), 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 170731M2_2	Standard	12.500	1.40	13370.174	13370.174	12.500	12.5	0.0	NO		NO	bb
2	2 170731M2_3	Standard	12.500	1.40	14138.808	14138.808	12.500	12.5	0.0	NO		NO	bb
3	3 170731M2_4	Standard	12.500	1.40	13876.813	13876.813	12.500	12.5	0.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	1.40	13352.213	13352.213	12.500	12.5	0.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	1.40	13996.207	13996.207	12.500	12.5	0.0	NO		NO	bb
6	6 170731M2_7	Standard	12.500	1.40	13824.148	13824.148	12.500	12.5	0.0	NO		NO	bb
7	7 170731M2_8	Standard	12.500	1.40	13506.435	13506.435	12.500	12.5	0.0	NO		NO	bb
8	8 170731M2_9	Standard	12.500	1.40	13834.986	13834.986	12.500	12.5	0.0	NO		NO	bb
9	9 170731M2_10	Standard	12.500	1.41	24706.939	24706.939	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 52), 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 170731M2_2	Standard	5.000	3.16	38888.445	38888.445	5.000	5.0	0.0	NO		NO	bb
2	2 170731M2_3	Standard	5.000	3.17	39697.934	39697.934	5.000	5.0	0.0	NO		NO	bb
3	3 170731M2_4	Standard	5.000	3.16	39547.027	39547.027	5.000	5.0	0.0	NO		NO	bb
4	4 170731M2_5	Standard	5.000	3.16	39438.602	39438.602	5.000	5.0	0.0	NO		NO	bb
5	5 170731M2_6	Standard	5.000	3.17	42060.418	42060.418	5.000	5.0	0.0	NO		NO	bb
6	6 170731M2_7	Standard	5.000	3.17	40025.766	40025.766	5.000	5.0	0.0	NO		NO	bb
7	7 170731M2_8	Standard	5.000	3.16	39102.801	39102.801	5.000	5.0	0.0	NO		NO	bb
8	8 170731M2_9	Standard	5.000	3.16	39589.105	39589.105	5.000	5.0	0.0	NO		NO	bb
9	9 170731M2_10	Standard	5.000	3.16	83770.414	83770.414	5.000	5.0	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 1.30185e-016, Relative SD: 1.30185e-014

Response type: Internal Std (Ref 53), 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	170731M2_2	Standard	12.500	3.50	8046.377	8046.377	12.500	12.5	0.0	NO		NO	bb
2	2	170731M2_3	Standard	12.500	3.51	8495.484	8495.484	12.500	12.5	0.0	NO		NO	bb
3	3	170731M2_4	Standard	12.500	3.50	8882.063	8882.063	12.500	12.5	0.0	NO		NO	bb
4	4	170731M2_5	Standard	12.500	3.50	8188.101	8188.101	12.500	12.5	0.0	NO		NO	bb
5	5	170731M2_6	Standard	12.500	3.51	8591.091	8591.091	12.500	12.5	0.0	NO		NO	bb
6	6	170731M2_7	Standard	12.500	3.51	8363.203	8363.203	12.500	12.5	0.0	NO		NO	bb
7	7	170731M2_8	Standard	12.500	3.50	7776.584	7776.584	12.500	12.5	0.0	NO		NO	bb
8	8	170731M2_9	Standard	12.500	3.51	8119.819	8119.819	12.500	12.5	0.0	NO		NO	bb
9	9	170731M2_10	Standard	12.500	3.51	13173.476	13173.476	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 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	170731M2_2	Standard	12.500	3.64	45613.742	45613.742	12.500	12.5	0.0	NO		NO	bb
2	2	170731M2_3	Standard	12.500	3.64	51389.625	51389.625	12.500	12.5	0.0	NO		NO	bb
3	3	170731M2_4	Standard	12.500	3.63	54967.332	54967.332	12.500	12.5	0.0	NO		NO	bb
4	4	170731M2_5	Standard	12.500	3.63	48131.012	48131.012	12.500	12.5	0.0	NO		NO	bb
5	5	170731M2_6	Standard	12.500	3.64	48854.391	48854.391	12.500	12.5	0.0	NO		NO	bb
6	6	170731M2_7	Standard	12.500	3.64	49711.629	49711.629	12.500	12.5	0.0	NO		NO	bb
7	7	170731M2_8	Standard	12.500	3.64	49752.918	49752.918	12.500	12.5	0.0	NO		NO	bb
8	8	170731M2_9	Standard	12.500	3.64	48614.910	48614.910	12.500	12.5	0.0	NO		NO	bb
9	9	170731M2_10	Standard	12.500	3.64	75486.695	75486.695	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 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 170731M2_2	Standard	12.500	3.81	48472.340	48472.340	12.500	12.5	0.0	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.82	53412.238	53412.238	12.500	12.5	0.0	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.81	53921.699	53921.699	12.500	12.5	0.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.81	54390.477	54390.477	12.500	12.5	0.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.82	50780.711	50780.711	12.500	12.5	0.0	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.82	55837.012	55837.012	12.500	12.5	0.0	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.82	44552.844	44552.844	12.500	12.5	0.0	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.81	43921.875	43921.875	12.500	12.5	0.0	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.82	78755.734	78755.734	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

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

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	12.500	3.87	9416.050	9416.050	12.500	12.5	0.0	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.87	9484.859	9484.859	12.500	12.5	0.0	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.87	9437.330	9437.330	12.500	12.5	0.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.87	8900.184	8900.184	12.500	12.5	0.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.87	9014.546	9014.546	12.500	12.5	0.0	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.87	8997.038	8997.038	12.500	12.5	0.0	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.87	8503.210	8503.210	12.500	12.5	0.0	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.87	8476.880	8476.880	12.500	12.5	0.0	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.87	11498.018	11498.018	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C6-PFDA

Response Factor: 1

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

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

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	12.500	3.99	48495.309	48495.309	12.500	12.5	0.0	NO		NO	bb
2	2 170731M2_3	Standard	12.500	3.99	59901.941	59901.941	12.500	12.5	0.0	NO		NO	bb
3	3 170731M2_4	Standard	12.500	3.99	59169.184	59169.184	12.500	12.5	0.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	3.98	50594.809	50594.809	12.500	12.5	0.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	3.99	46199.484	46199.484	12.500	12.5	0.0	NO		NO	bb
6	6 170731M2_7	Standard	12.500	3.99	55659.504	55659.504	12.500	12.5	0.0	NO		NO	bb
7	7 170731M2_8	Standard	12.500	3.99	46843.121	46843.121	12.500	12.5	0.0	NO		NO	bb
8	8 170731M2_9	Standard	12.500	3.99	48865.242	48865.242	12.500	12.5	0.0	NO		NO	bb
9	9 170731M2_10	Standard	12.500	3.99	77377.094	77377.094	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUnA

Response Factor: 1

RRF SD: 8.77708e-017, Relative SD: 8.77708e-015

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

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 170731M2_2	Standard	12.500	4.15	46687.762	46687.762	12.500	12.5	0.0	NO		NO	bb
2	2 170731M2_3	Standard	12.500	4.16	55126.090	55126.090	12.500	12.5	0.0	NO		NO	bb
3	3 170731M2_4	Standard	12.500	4.15	52064.938	52064.938	12.500	12.5	0.0	NO		NO	bb
4	4 170731M2_5	Standard	12.500	4.15	55069.406	55069.406	12.500	12.5	0.0	NO		NO	bb
5	5 170731M2_6	Standard	12.500	4.15	48450.305	48450.305	12.500	12.5	0.0	NO		NO	bb
6	6 170731M2_7	Standard	12.500	4.15	50457.156	50457.156	12.500	12.5	0.0	NO		NO	bb
7	7 170731M2_8	Standard	12.500	4.15	52556.180	52556.180	12.500	12.5	0.0	NO		NO	bb
8	8 170731M2_9	Standard	12.500	4.15	43779.801	43779.801	12.500	12.5	0.0	NO		NO	bb
9	9 170731M2_10	Standard	12.500	4.16	78259.594	78259.594	12.500	12.5	0.0	NO		NO	bb

Dataset: Untitled

Last Altered: Tuesday, August 01, 2017 10:20:34 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:21:31 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-20-17.mdb 01 Aug 2017 09:55:07

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	170731M2_1	IPA	01-Aug-17	00:29:09
2	170731M2_2	ST170731M2-1 PFC CS-2 17G3107	01-Aug-17	00:39:54
3	170731M2_3	ST170731M2-2 PFC CS-1 17G3108	01-Aug-17	00:50:40
4	170731M2_4	ST170731M2-3 PFC CS0 17G3109	01-Aug-17	01:01:18
5	170731M2_5	ST170731M2-4 PFC CS1 17G3110	01-Aug-17	01:12:05
6	170731M2_6	ST170731M2-5 PFC CS2 17G3111	01-Aug-17	01:22:43
7	170731M2_7	ST170731M2-6 PFC CS3 17G3105	01-Aug-17	01:33:30
8	170731M2_8	ST170731M2-7 PFC CS4 17G3112	01-Aug-17	01:44:08
9	170731M2_9	ST170731M2-8 PFC CS5 17G3113	01-Aug-17	01:54:46
10	170731M2_10	ST170731M2-9 PFC CS6 17G2801	01-Aug-17	02:05:40
11	170731M2_11	ST170731M2-10 PFC CS7 17G2802	01-Aug-17	02:16:49
12	170731M2_12	IPA	01-Aug-17	02:27:32
13	170731M2_13	SS170731M2-1 PFC SSS 17G3106	01-Aug-17	02:38:37
14	170731M2_14	IPA	01-Aug-17	02:49:24

Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-20-17.mdb 01 Aug 2017 09:55:07

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

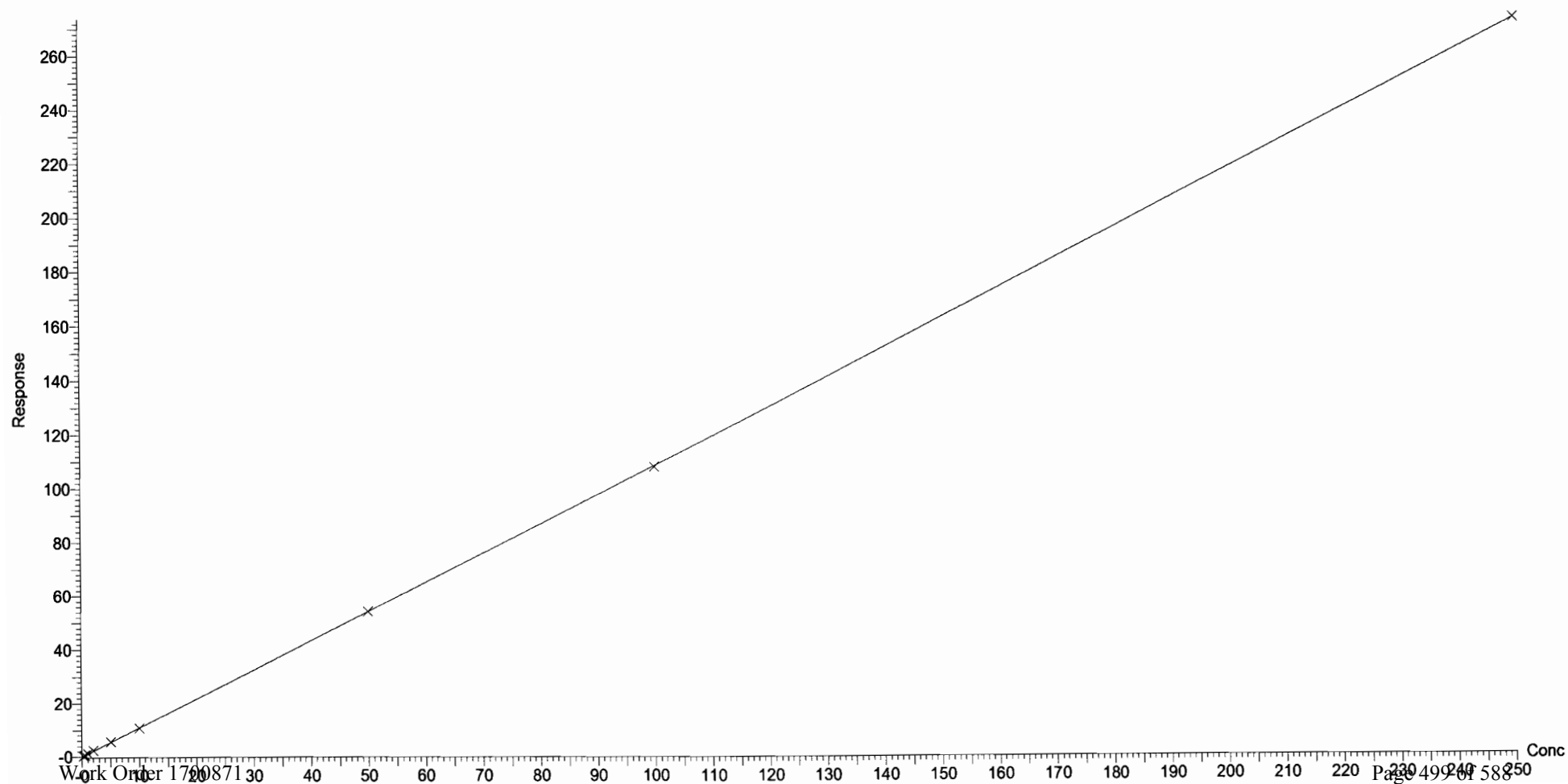
Compound name: PFBA

Coefficient of Determination: $R^2 = 0.999898$

Calibration curve: $6.26653e-005 * x^2 + 1.07835 * x + 0.0734459$

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

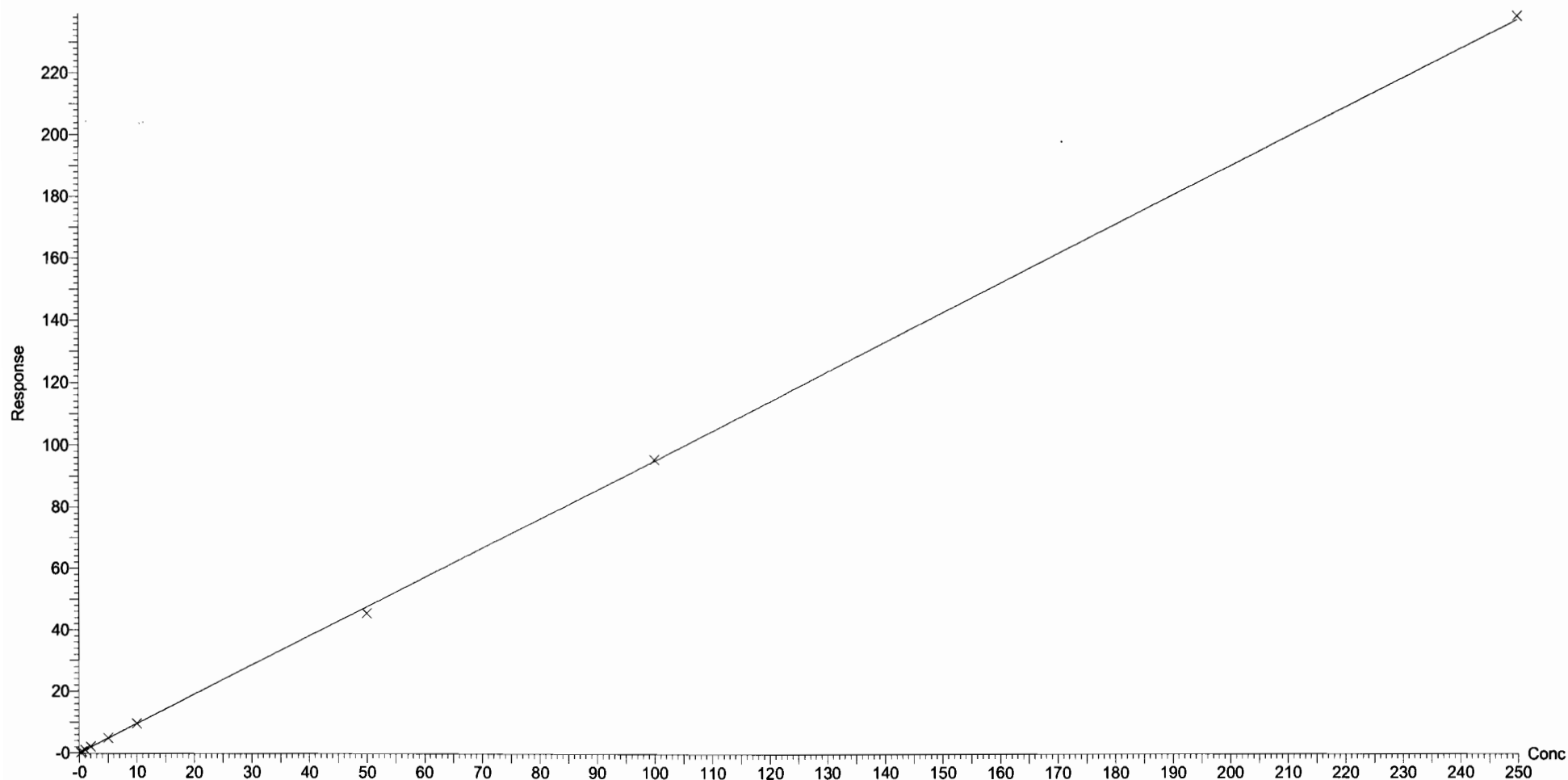
Compound name: PFPeA

Correlation coefficient: $r = 0.999842$, $r^2 = 0.999685$

Calibration curve: $0.95207 * x + 0.034134$

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

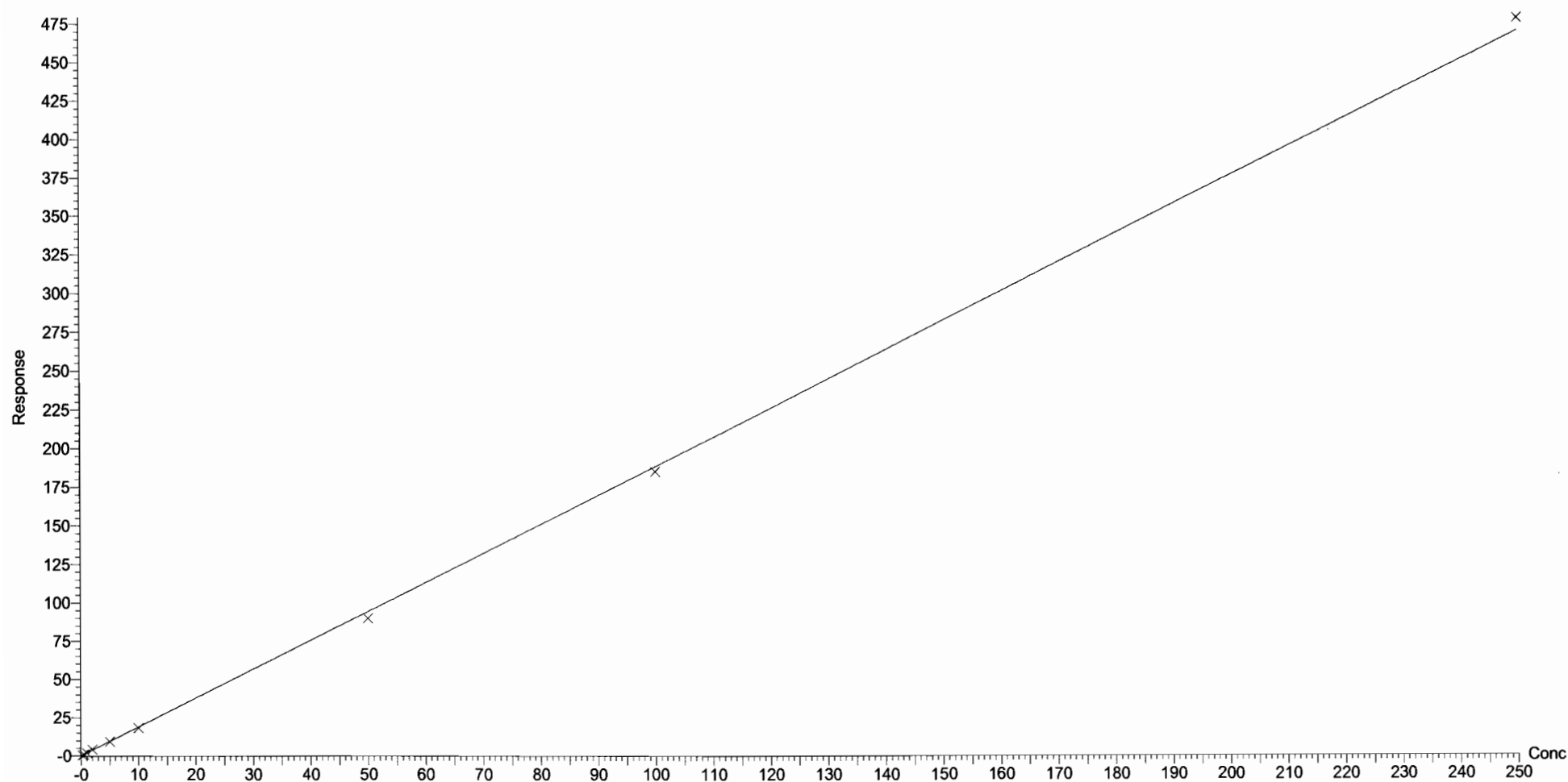
Compound name: PFBS

Correlation coefficient: $r = 0.999700$, $r^2 = 0.999400$

Calibration curve: $1.88408 * x + 0.0670139$

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

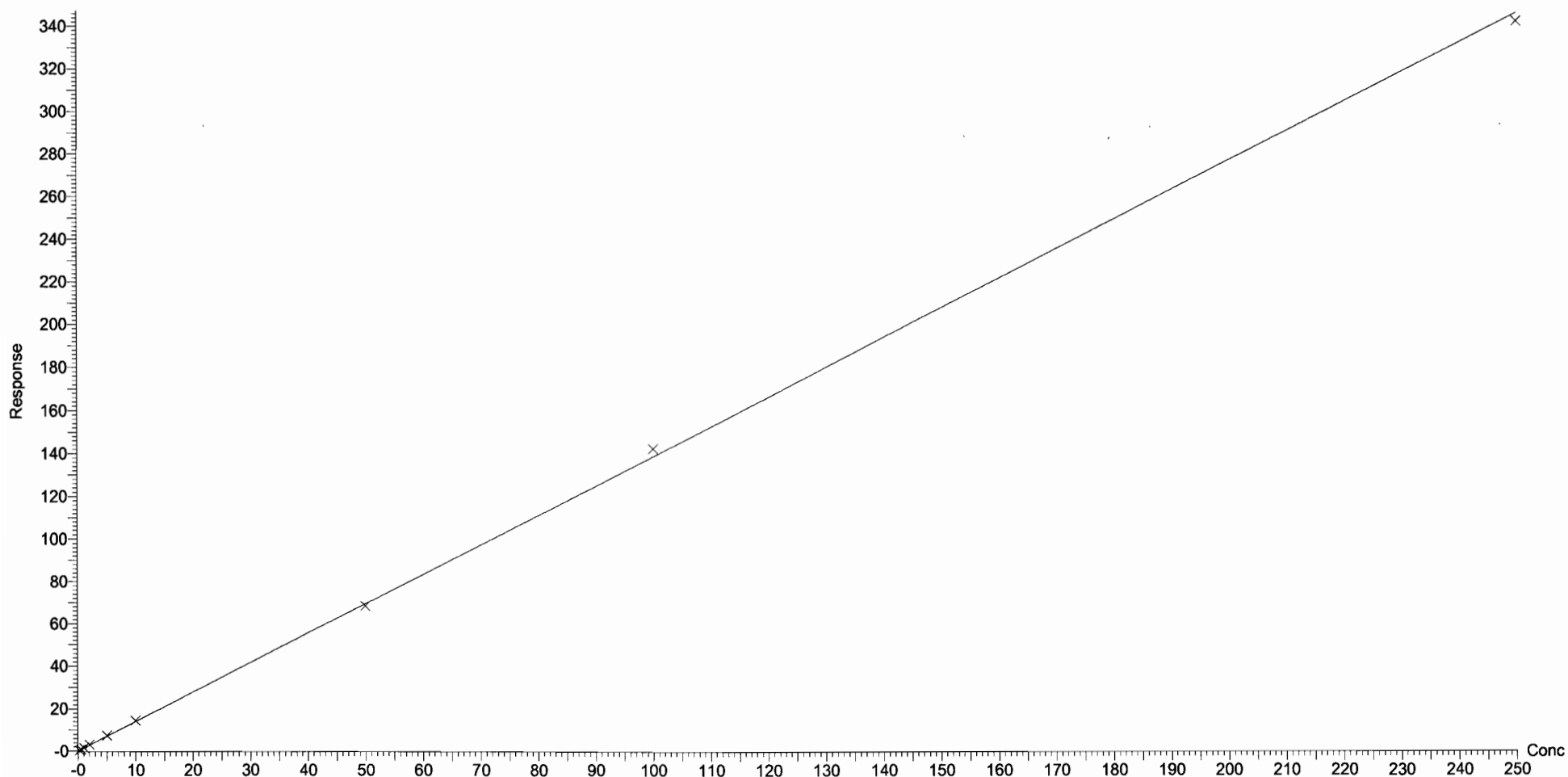
Compound name: PFHxA

Correlation coefficient: $r = 0.999770$, $r^2 = 0.999541$

Calibration curve: $1.38743 * x + 0.151774$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

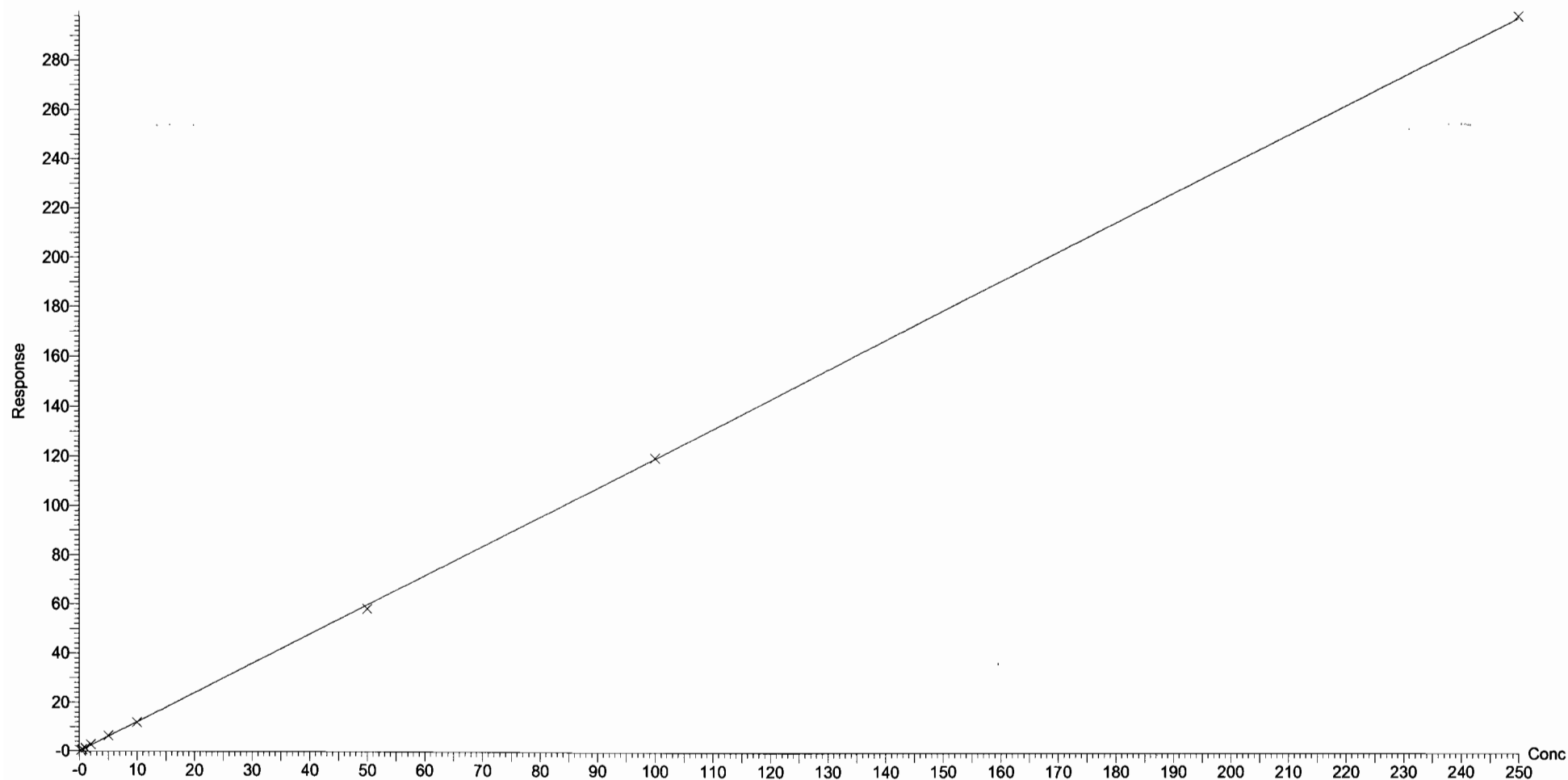
Compound name: PFHpA

Correlation coefficient: $r = 0.999907$, $r^2 = 0.999814$

Calibration curve: $1.19527 * x + 0.0770691$

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\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

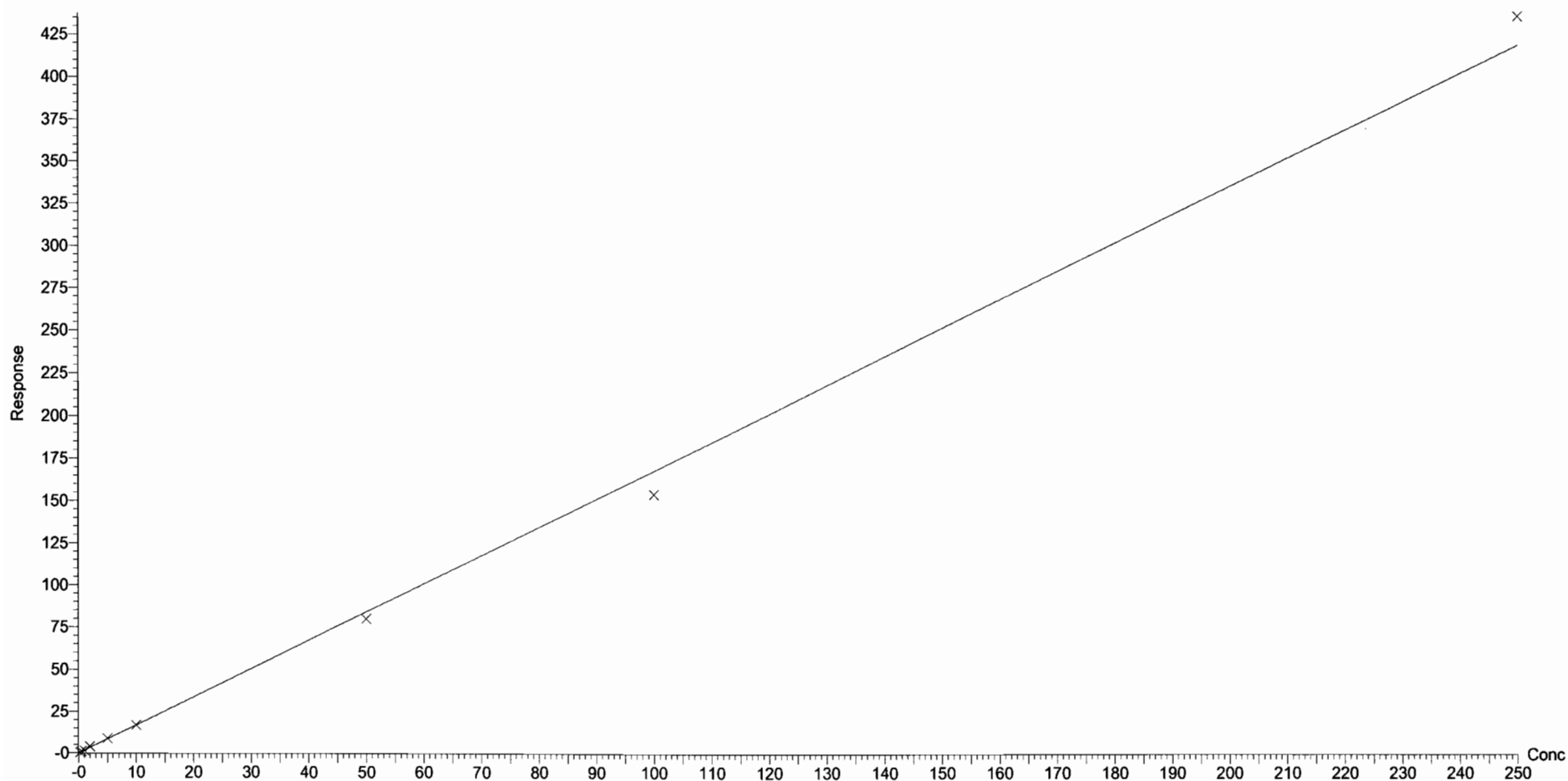
Compound name: PFHxS

Correlation coefficient: $r = 0.998411$, $r^2 = 0.996824$

Calibration curve: $1.6806 * x + 0.0313148$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

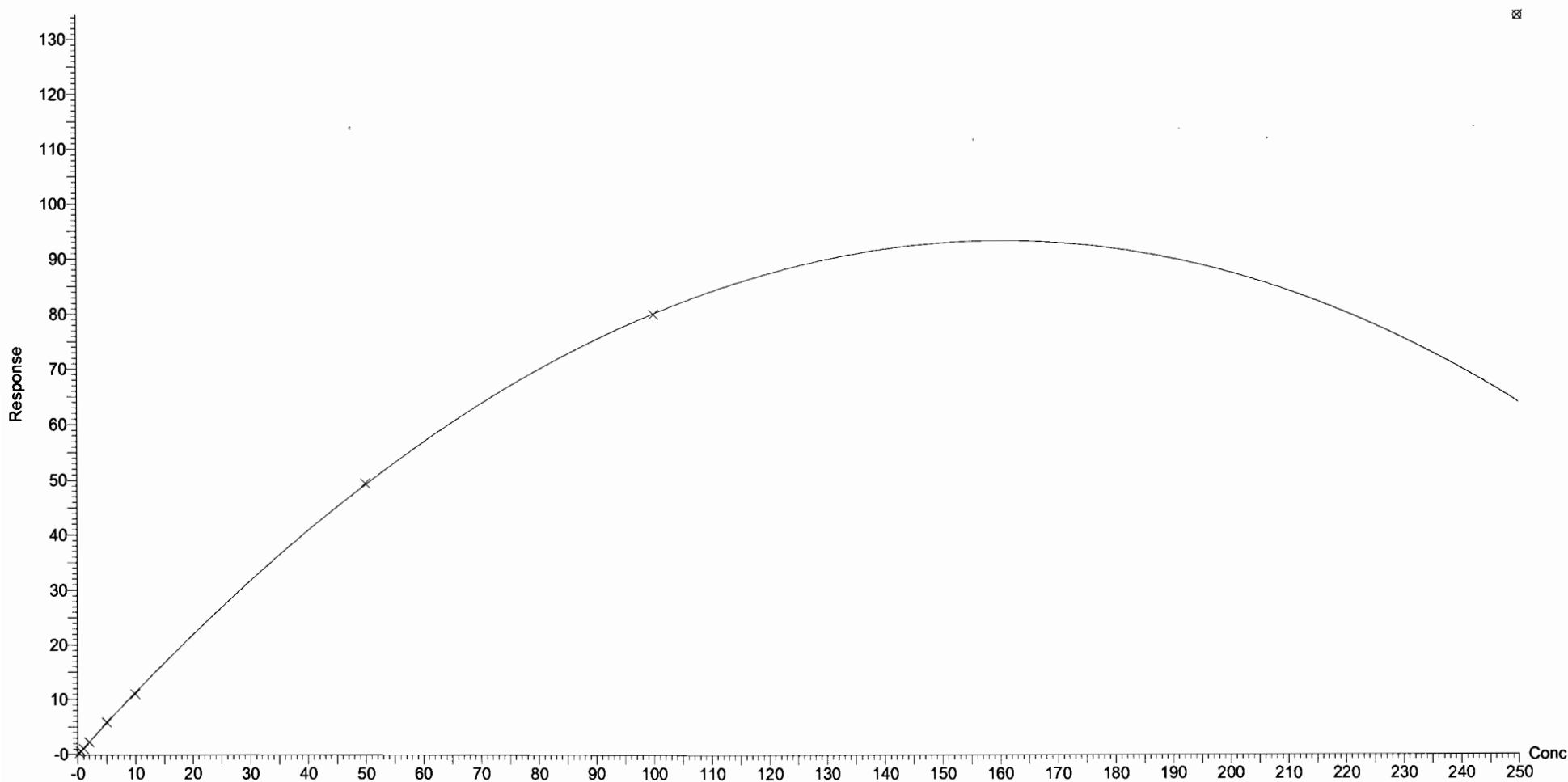
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.999797$

Calibration curve: $-0.00364043 * x^2 + 1.16681 * x + -0.0592153$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

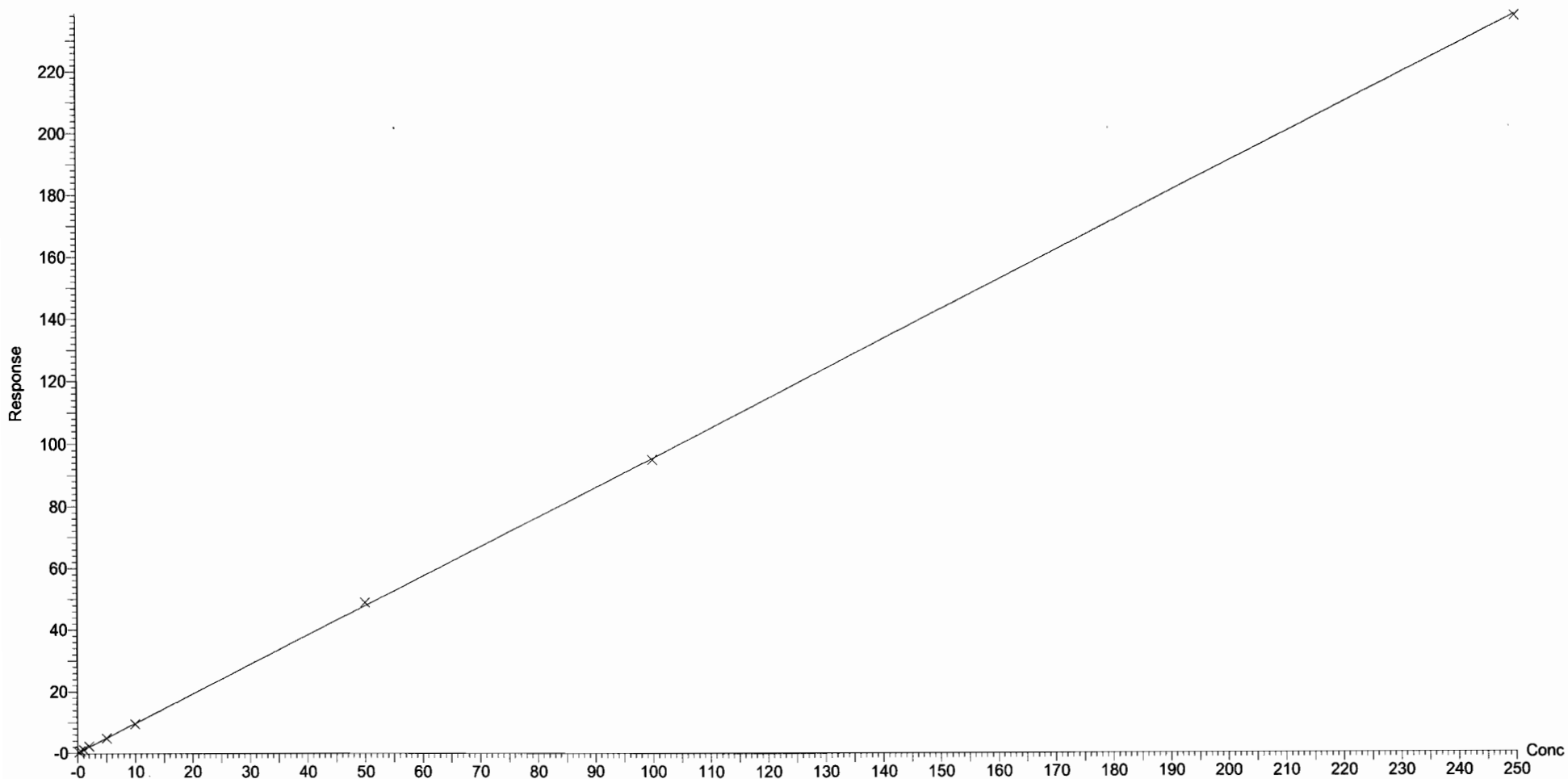
Compound name: PFOA

Correlation coefficient: $r = 0.999910$, $r^2 = 0.999821$

Calibration curve: $0.953928 * x + 0.14566$

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\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

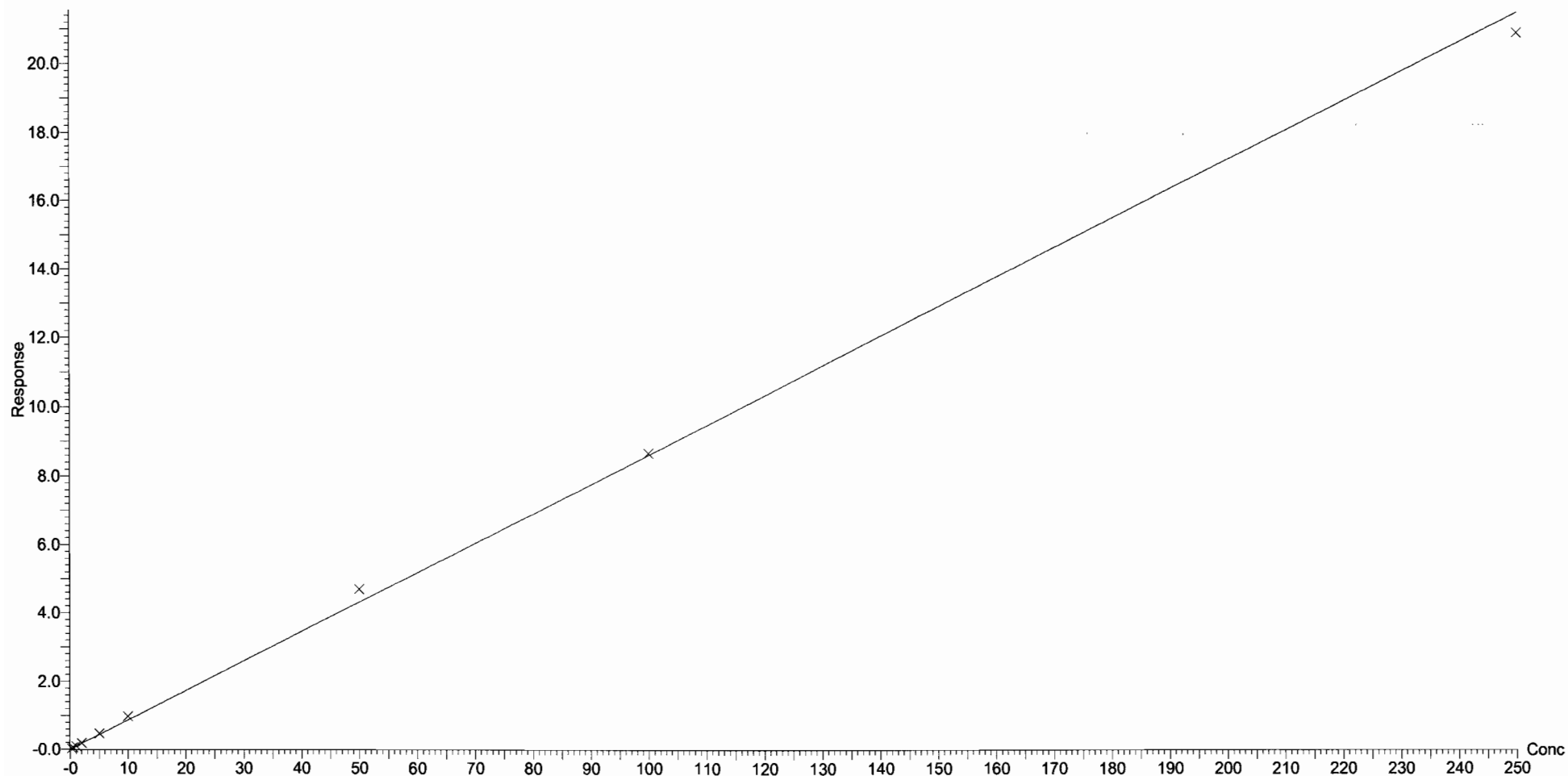
Compound name: PFHpS

Correlation coefficient: $r = 0.999006$, $r^2 = 0.998013$

Calibration curve: $0.0861619 * x + 0.0071876$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

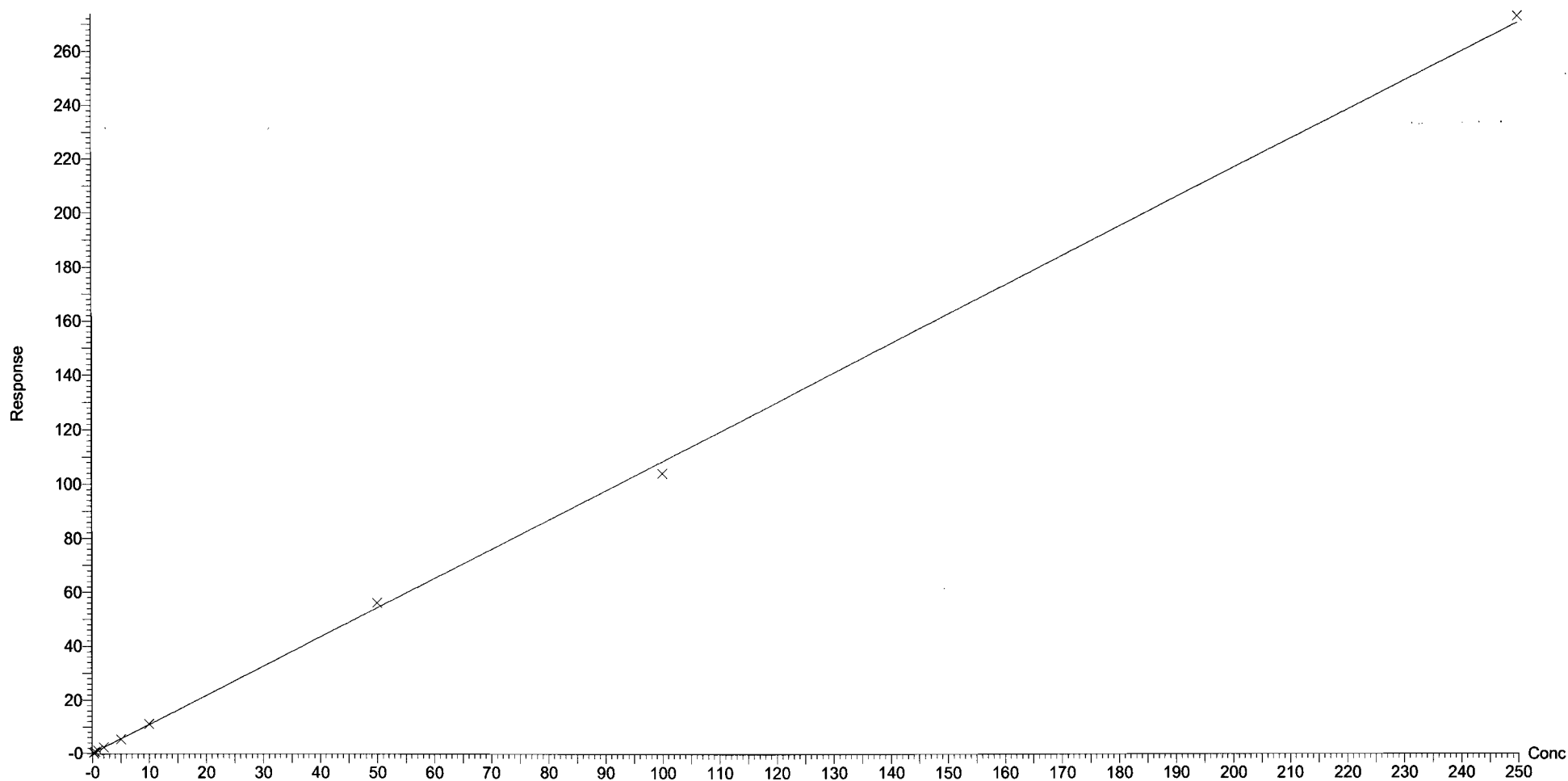
Compound name: PFNA

Correlation coefficient: $r = 0.999697$, $r^2 = 0.999394$

Calibration curve: $1.08541 * x + 0.0735739$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

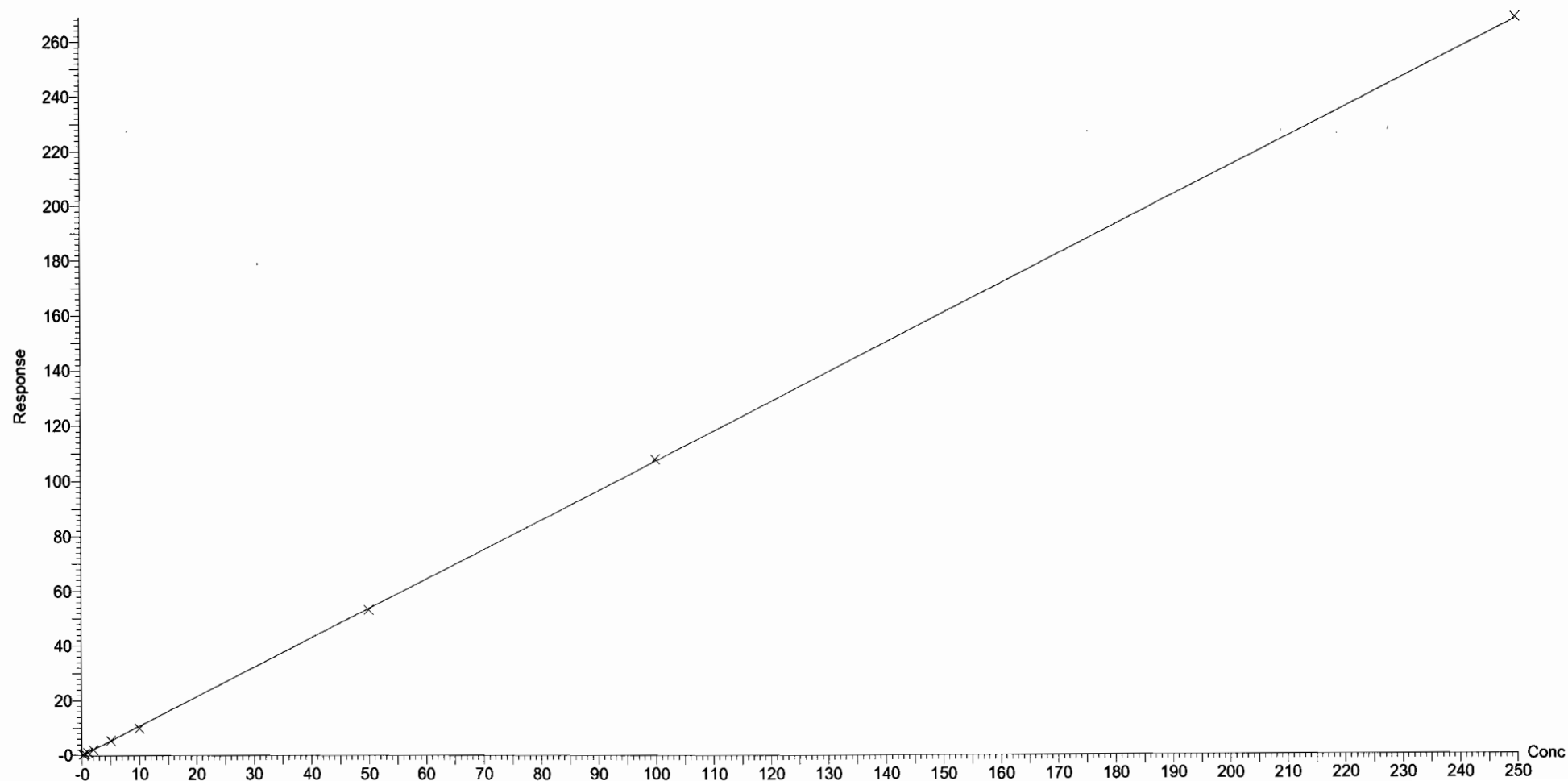
Compound name: PFOSA

Correlation coefficient: $r = 0.999883$, $r^2 = 0.999766$

Calibration curve: $1.0734 * x + -0.0271184$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

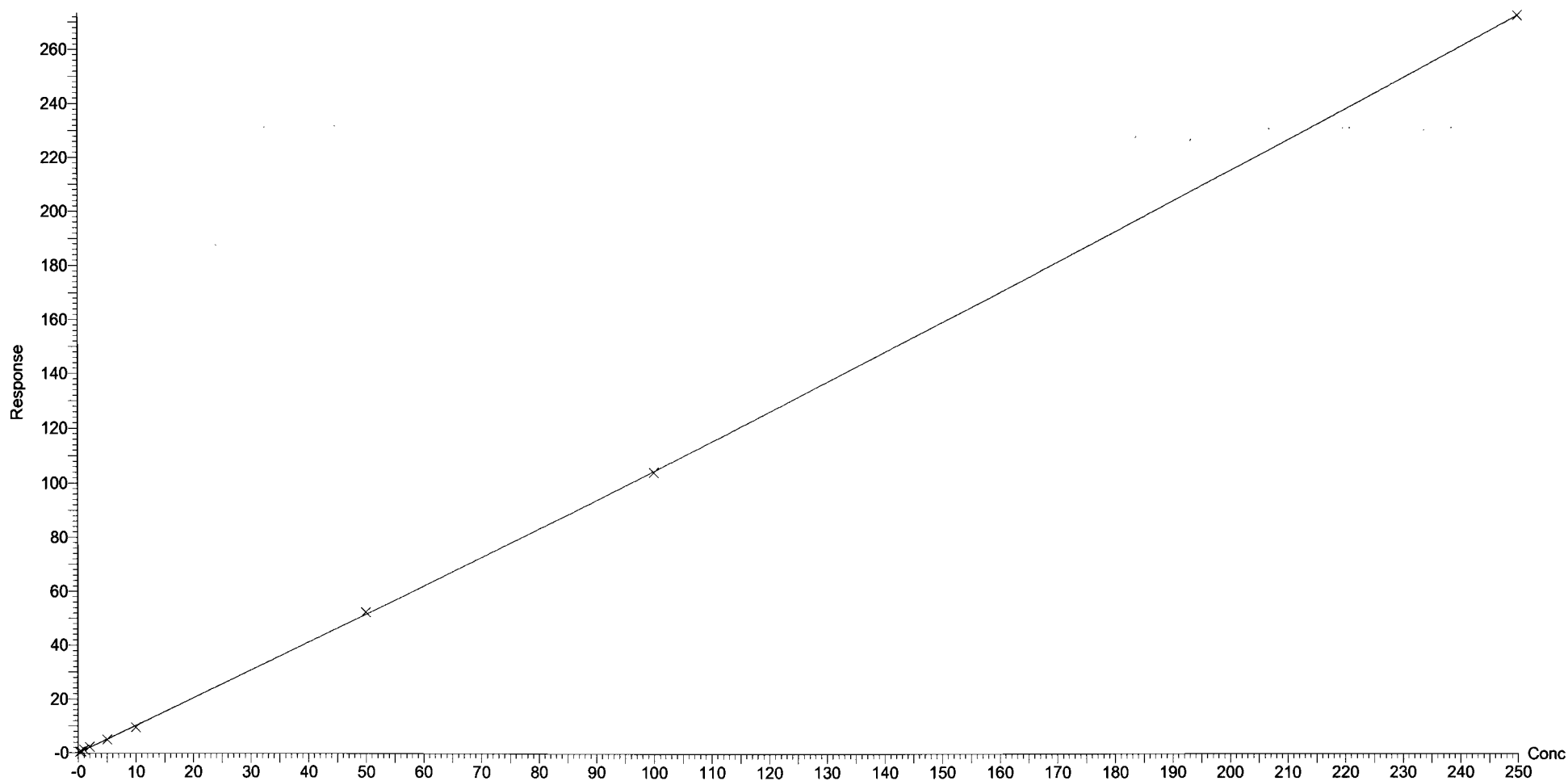
Compound name: PFOS

Coefficient of Determination: $R^2 = 0.999779$

Calibration curve: $0.000313423 * x^2 + 1.01509 * x + 0.0486823$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

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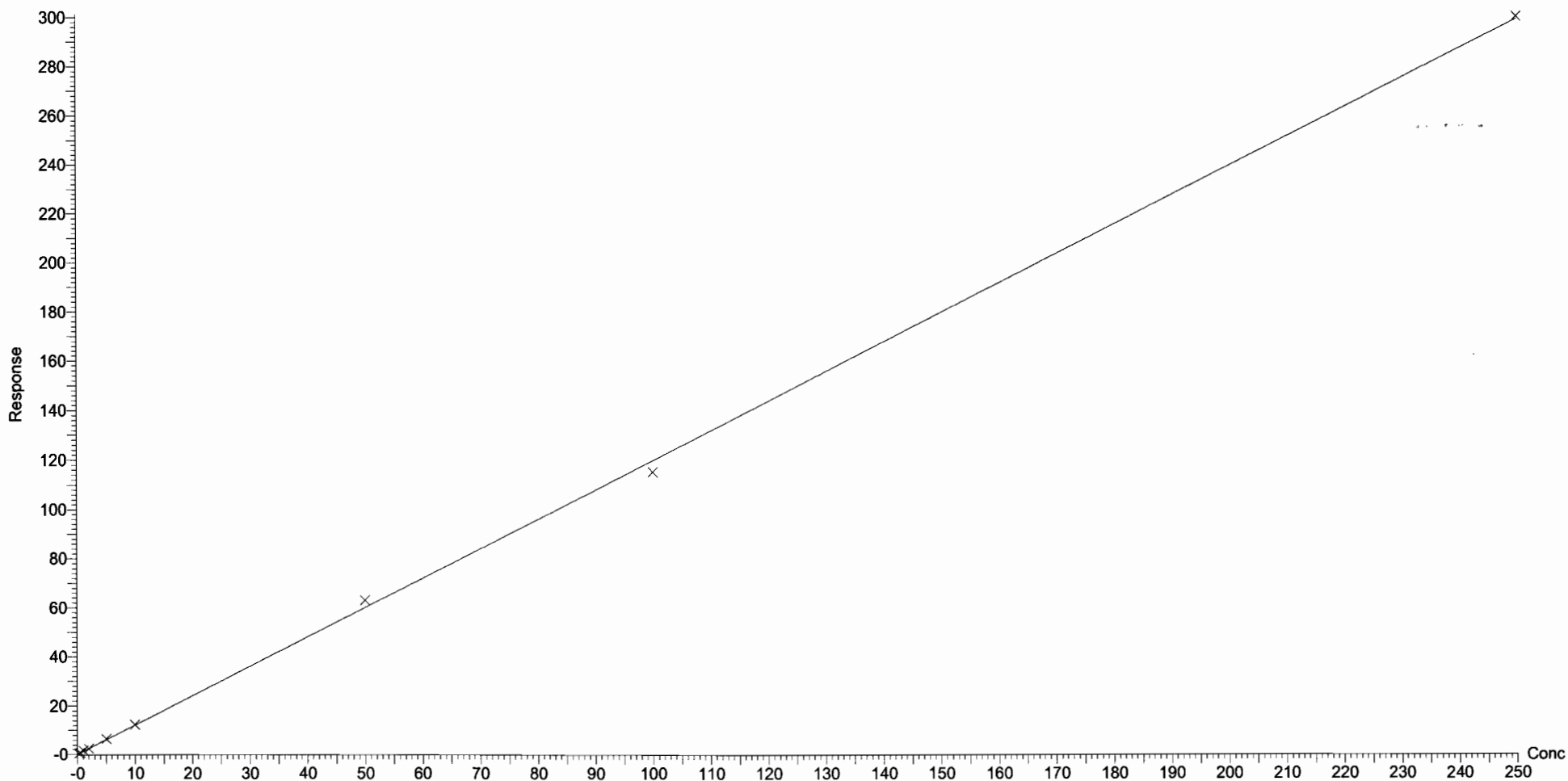
Compound name: PFDA

Correlation coefficient: $r = 0.999542$, $r^2 = 0.999084$

Calibration curve: $1.19993 * x + 0.156566$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

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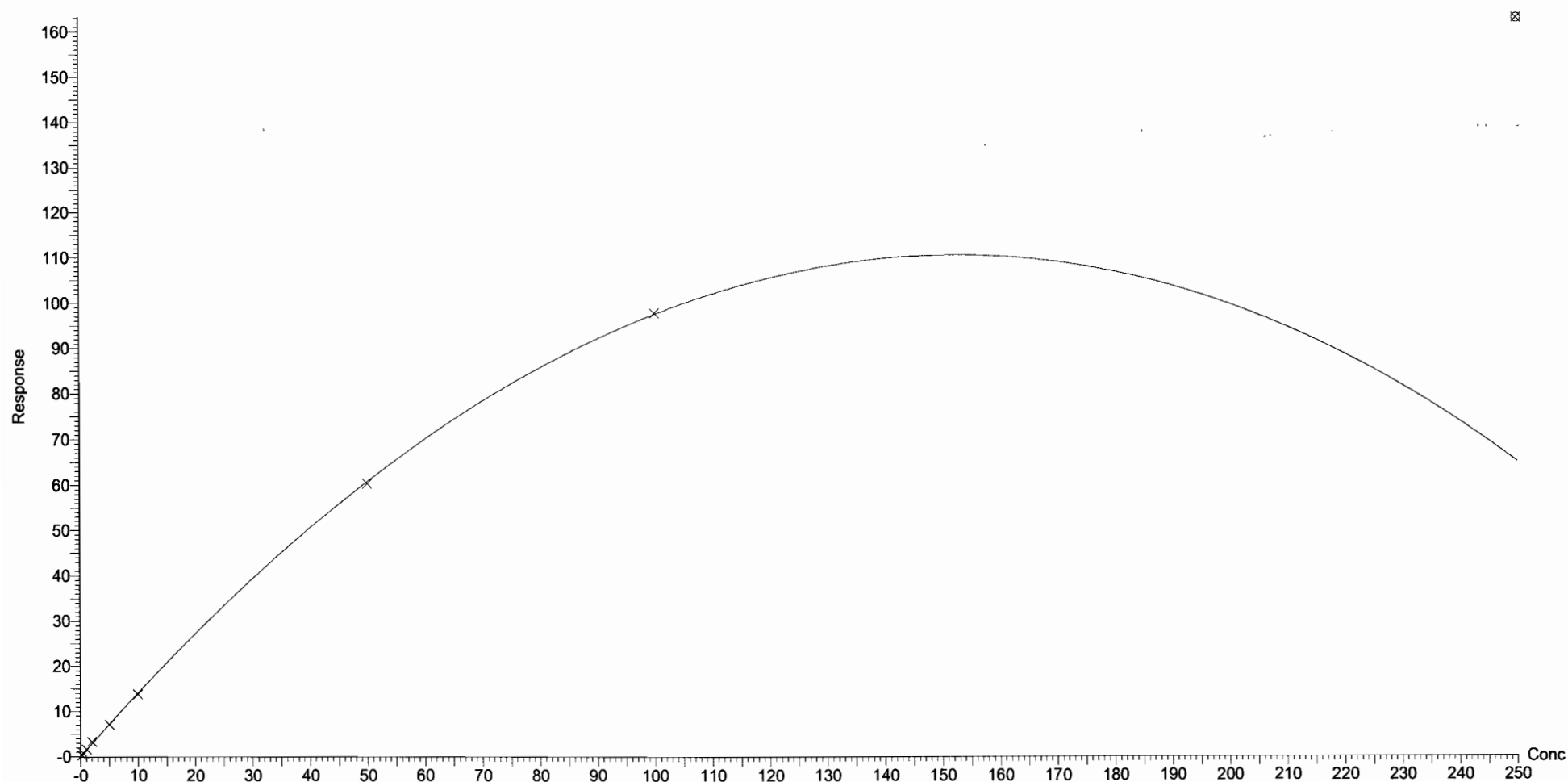
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.999107$

Calibration curve: $-0.00477278 * x^2 + 1.45357 * x + 0.0233651$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

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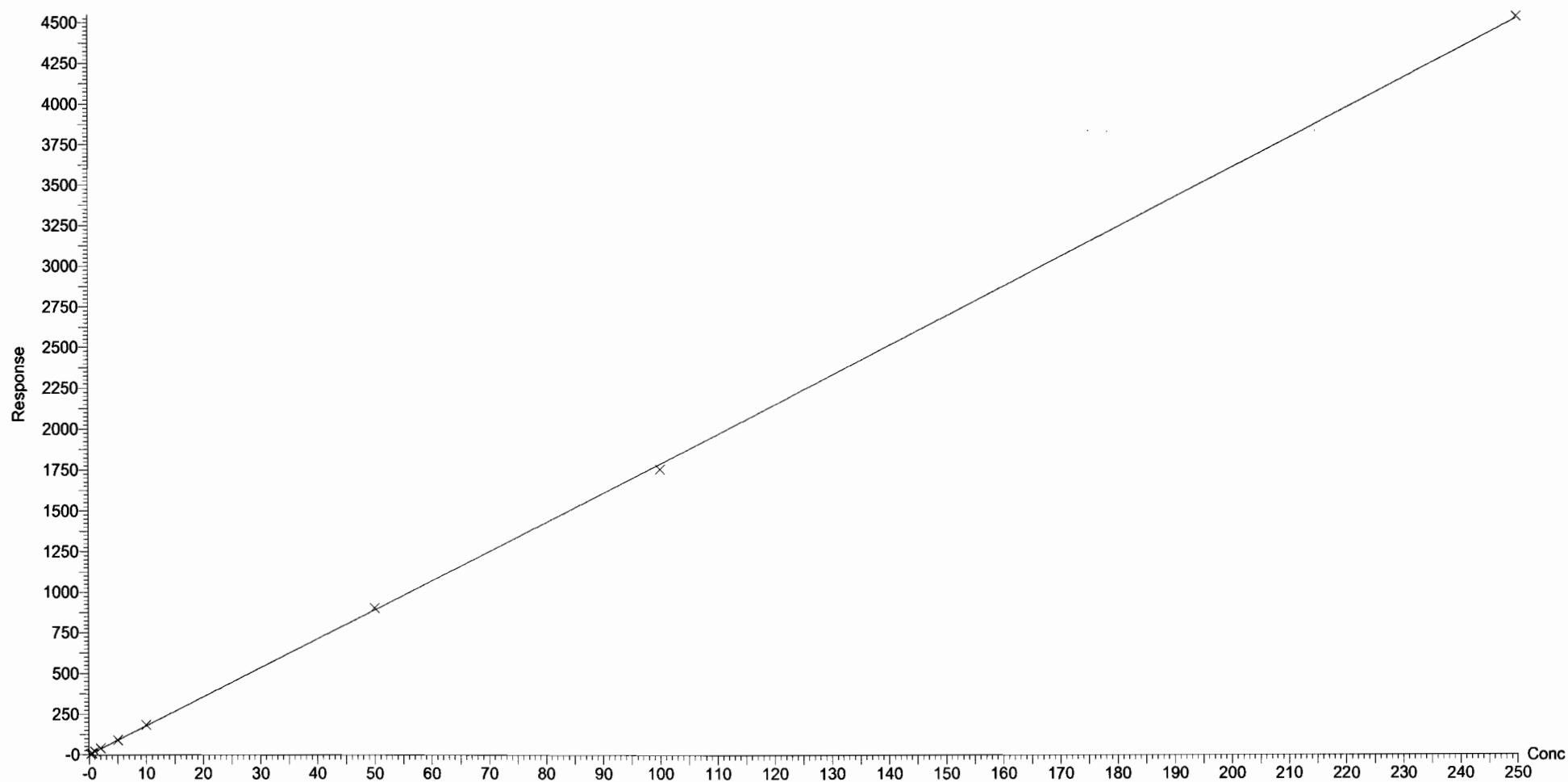
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999795$

Calibration curve: $0.00169243 * x^2 + 17.7214 * x + 0.975242$

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\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

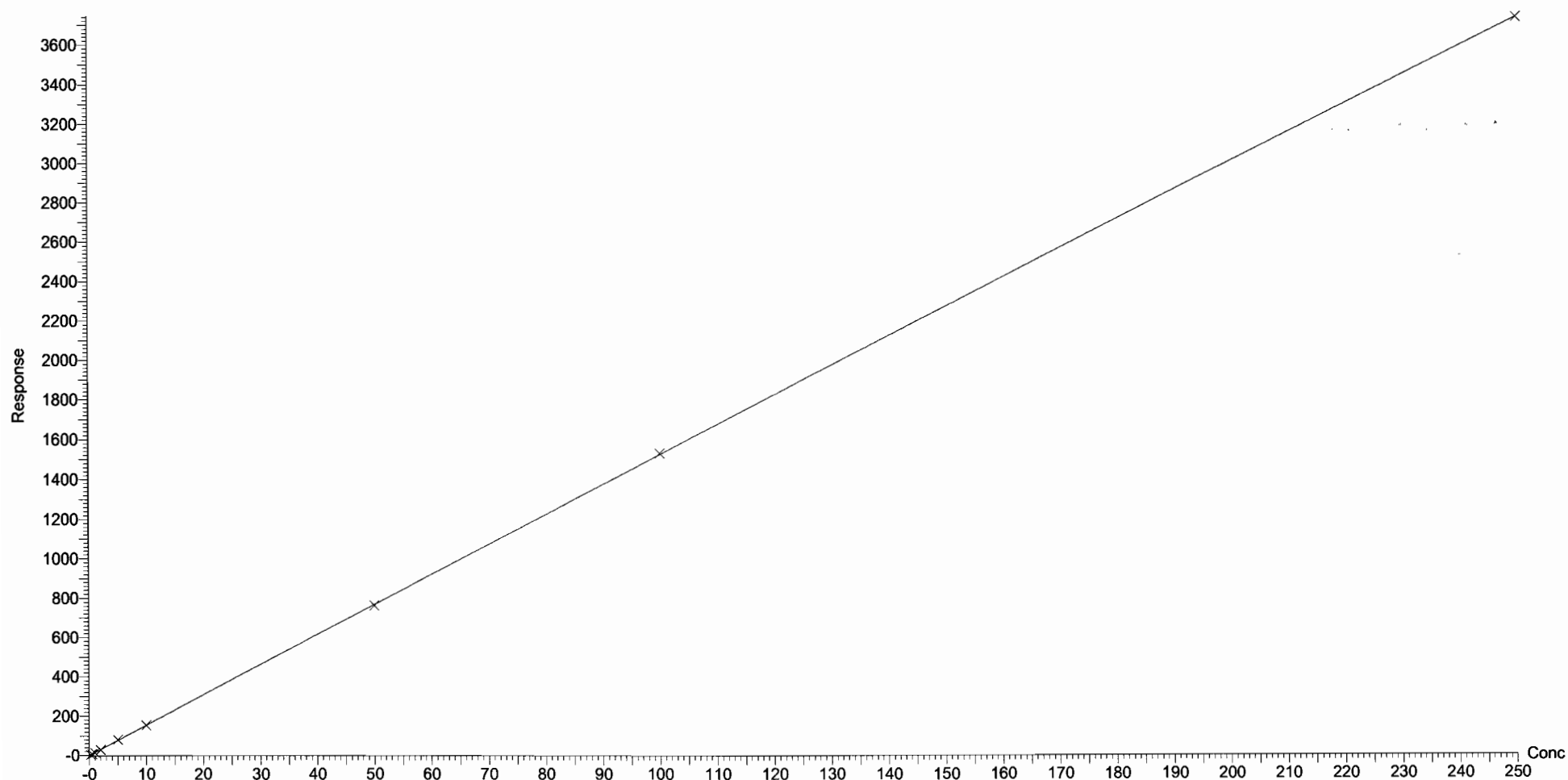
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999924$

Calibration curve: $-0.0019298 * x^2 + 15.4647 * x + -0.327453$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

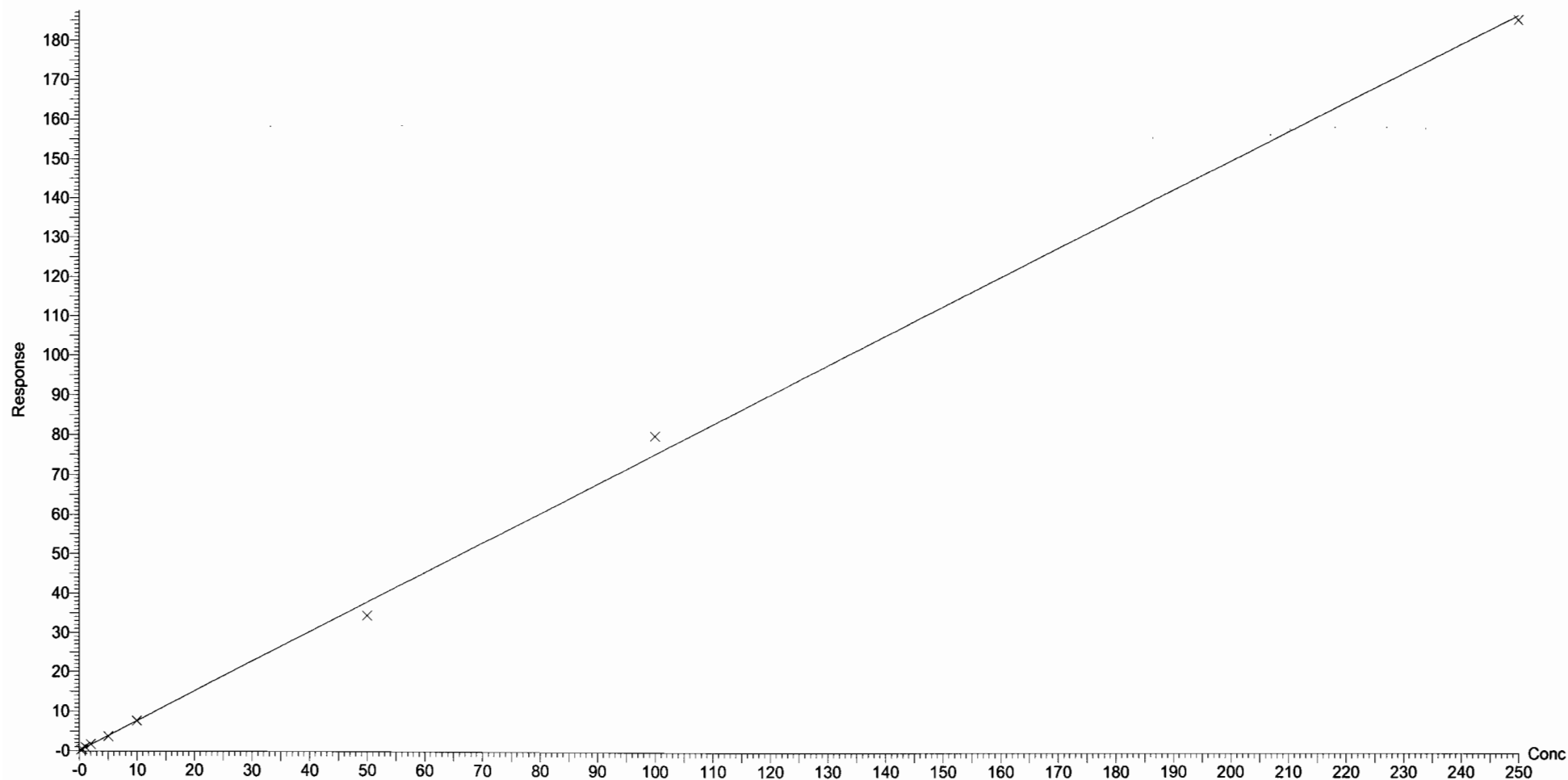
Compound name: PFUnA

Coefficient of Determination: $R^2 = 0.997941$

Calibration curve: $-3.28617e-005 * x^2 + 0.757566 * x + 0.0881327$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

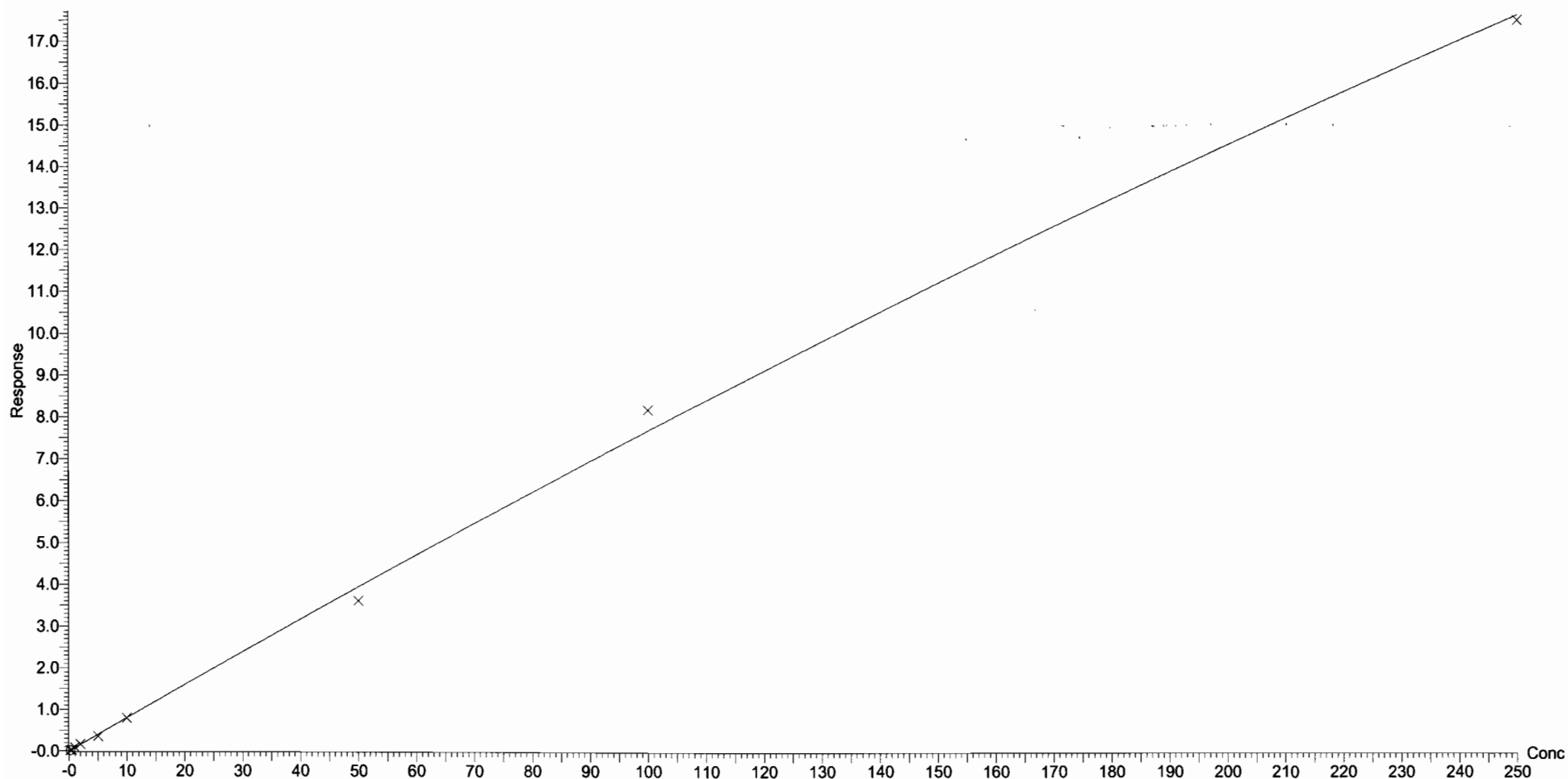
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.997578$

Calibration curve: $-4.11818e-005 * x^2 + 0.0811765 * x + -0.0032981$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

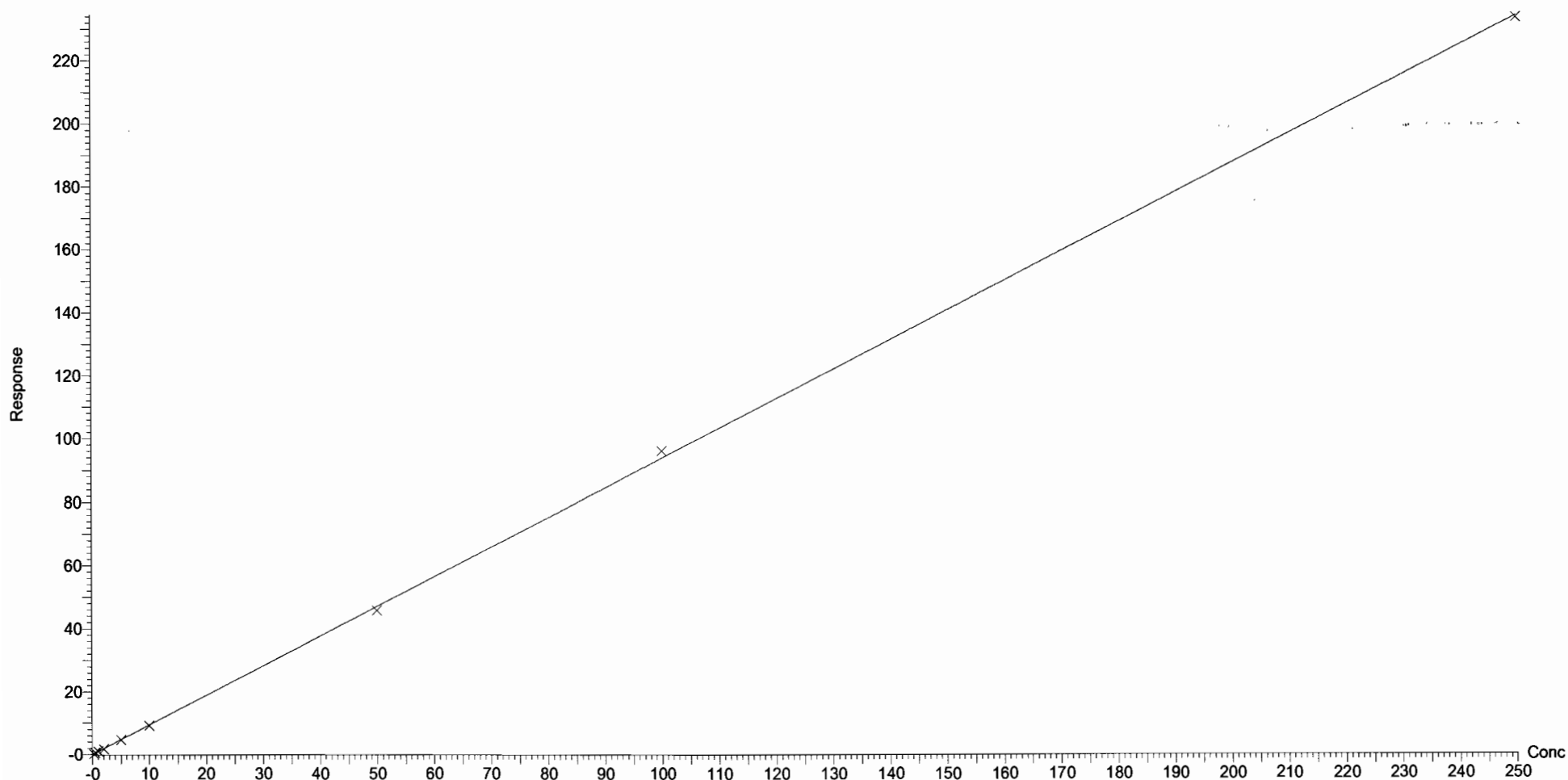
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.999599$

Calibration curve: $-9.87083e-006 * x^2 + 0.940673 * x + 0.00742583$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

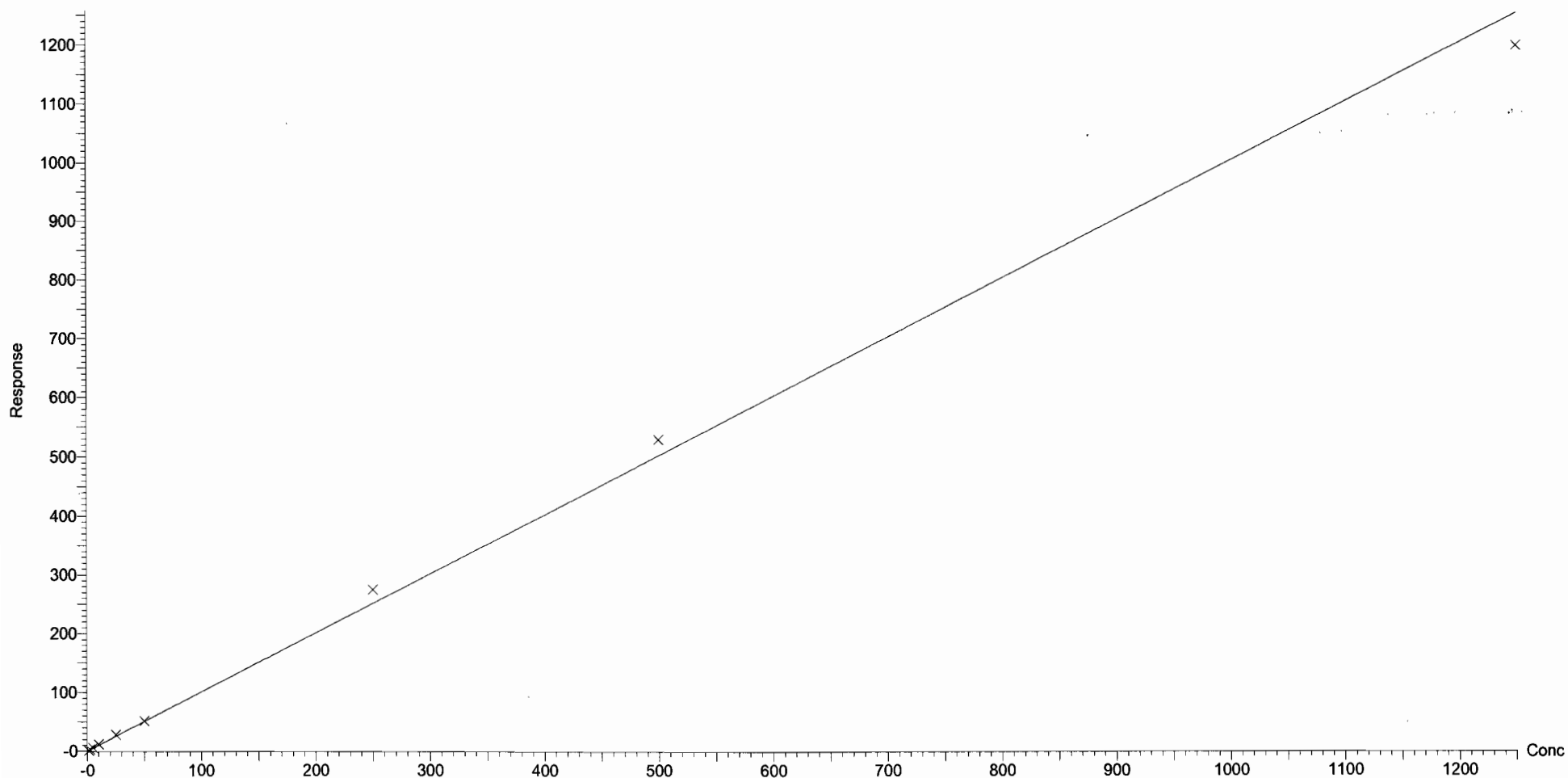
Compound name: N-MeFOSA

Correlation coefficient: $r = 0.998345$, $r^2 = 0.996693$

Calibration curve: $1.00604 * x + 0.235716$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

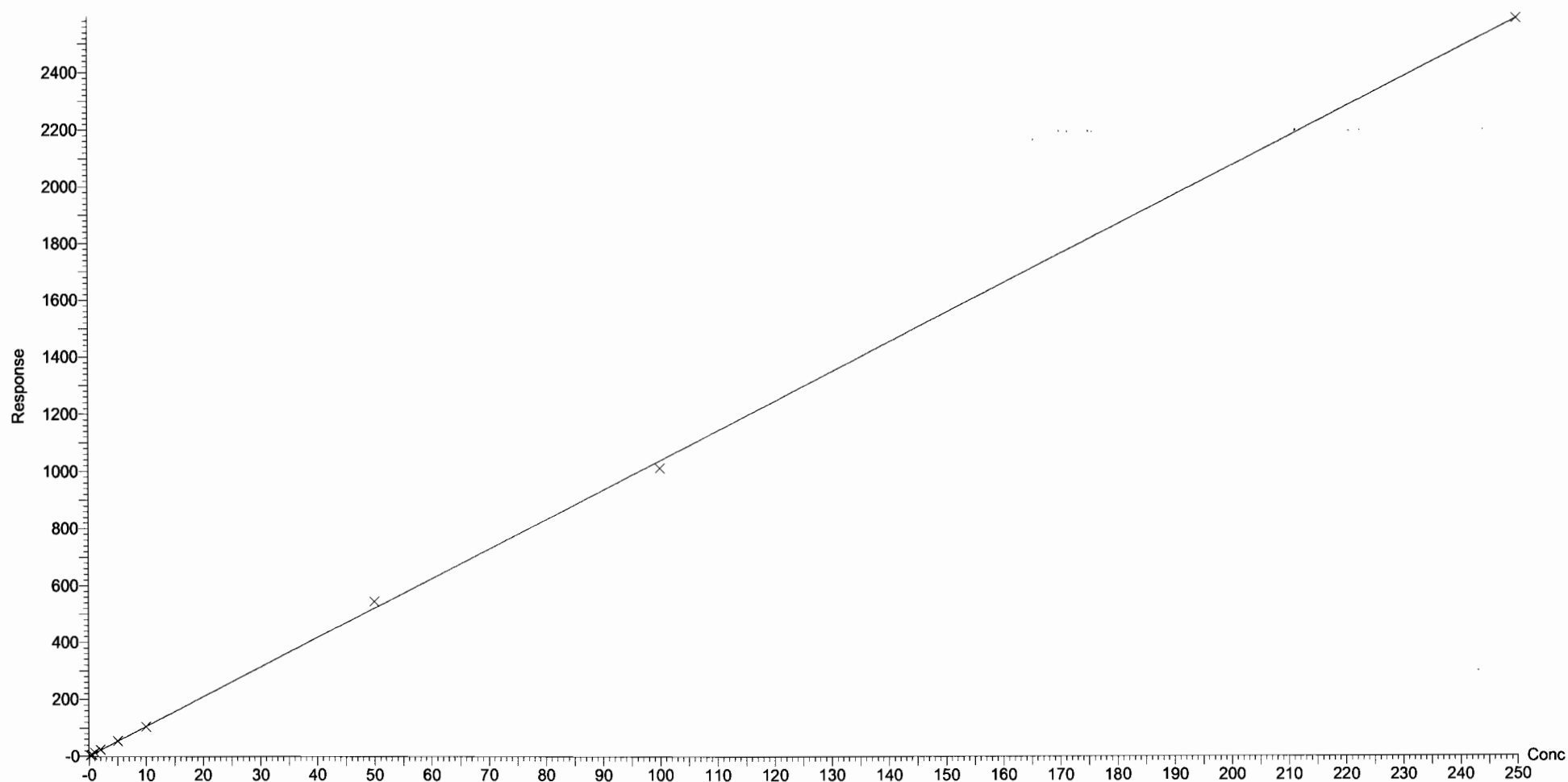
Compound name: PFTrDA

Correlation coefficient: $r = 0.999725$, $r^2 = 0.999450$

Calibration curve: $10.3774 * x + 1.19316$

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

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

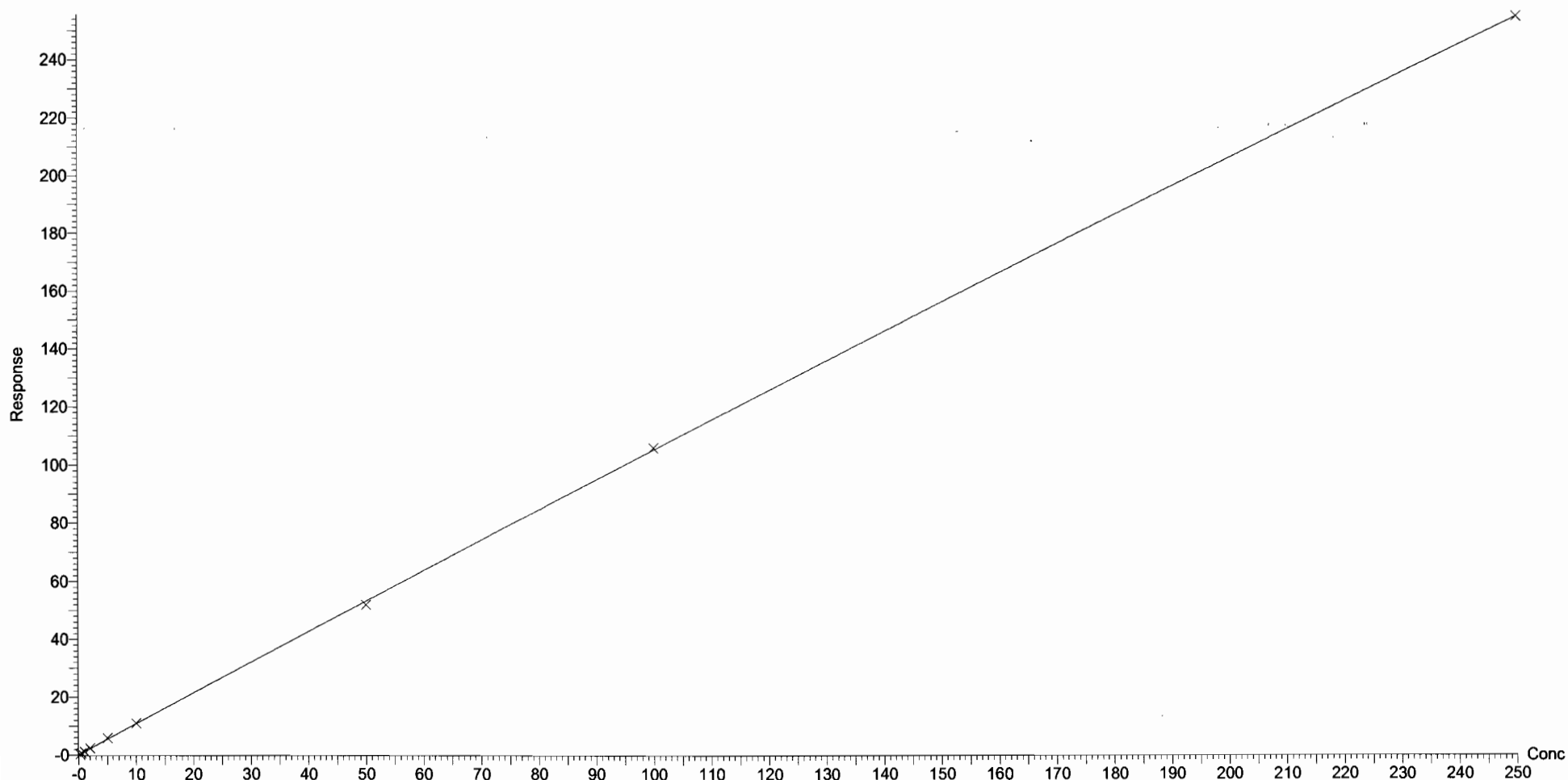
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999821$

Calibration curve: $-0.000206845 * x^2 + 1.07301 * x + 0.115151$

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\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

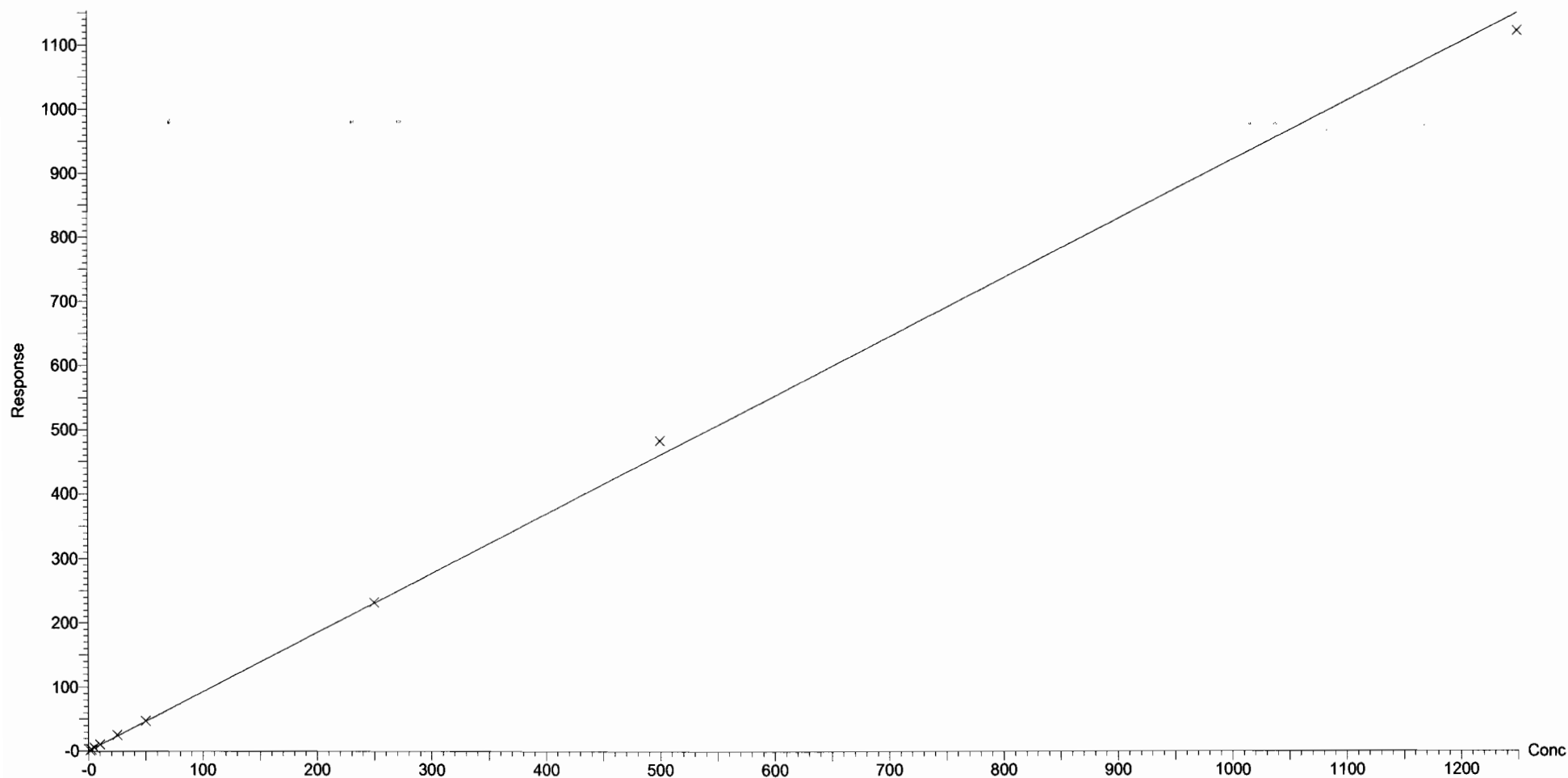
Compound name: N-EtFOSA

Correlation coefficient: $r = 0.999415$, $r^2 = 0.998831$

Calibration curve: $0.921854 * x + 0.382781$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

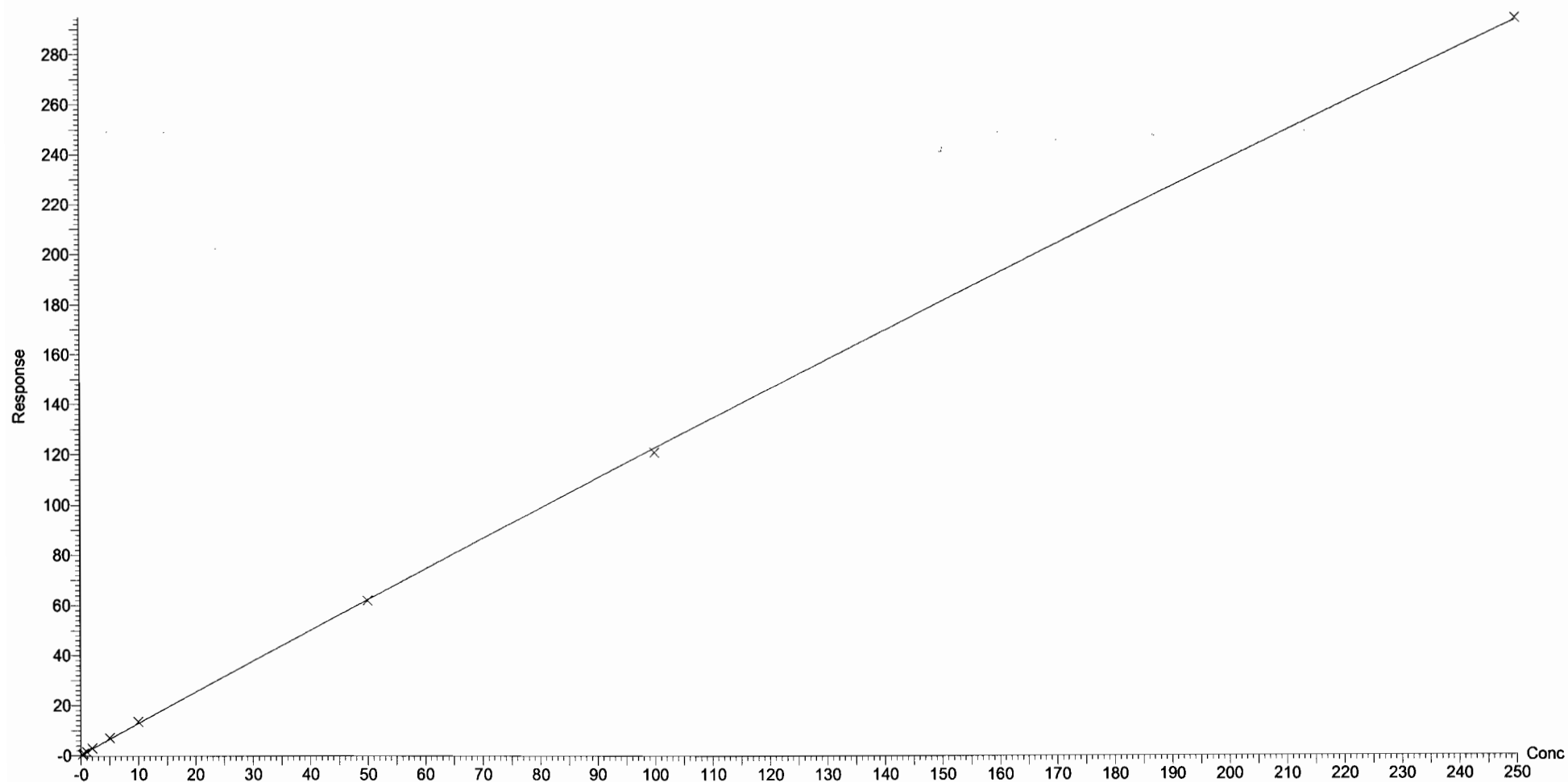
Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.999687$

Calibration curve: $-0.000332417 * x^2 + 1.25821 * x + 0.243616$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

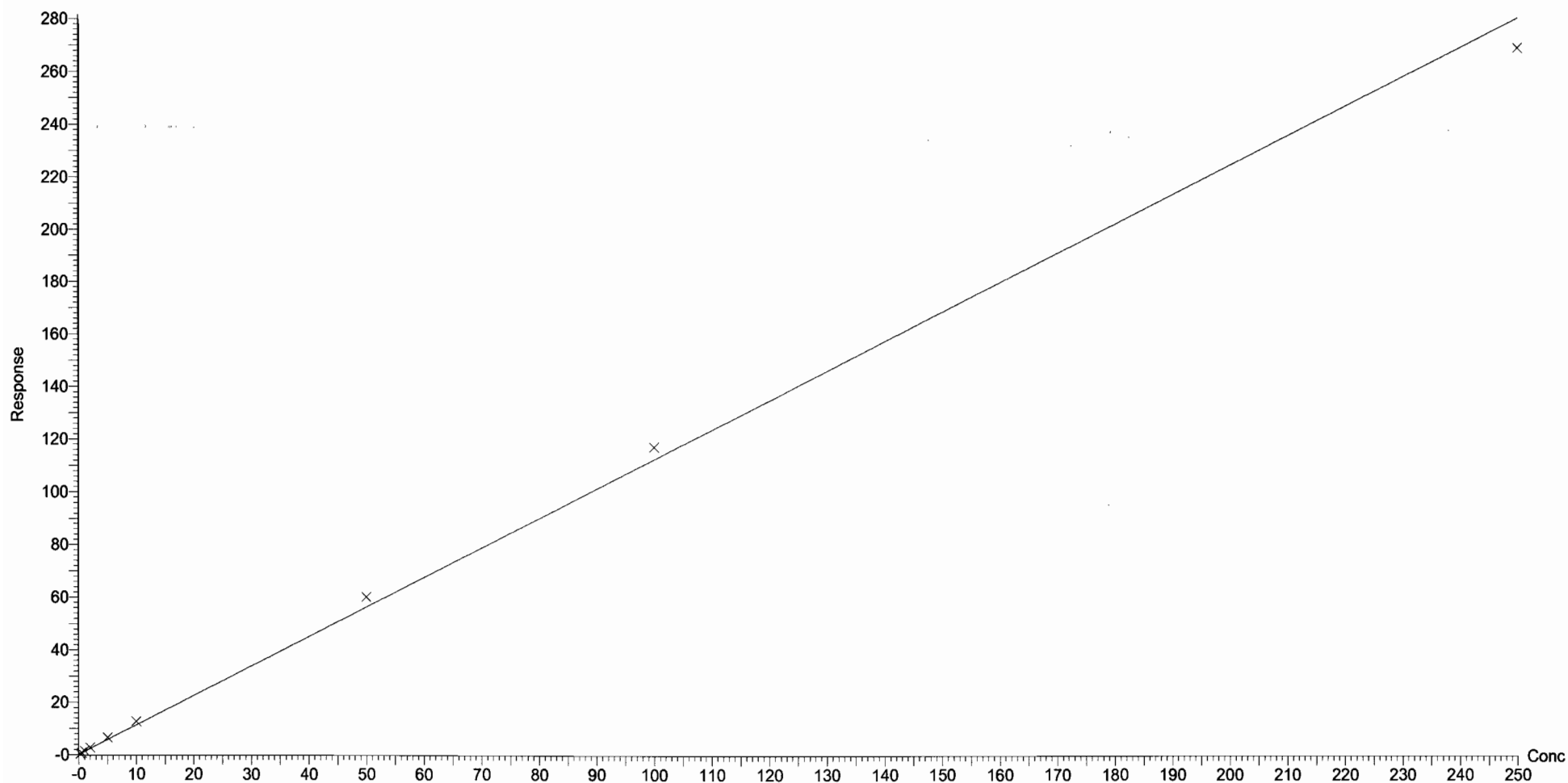
Compound name: PFODA

Correlation coefficient: $r = 0.998537$, $r^2 = 0.997077$

Calibration curve: $1.12504 * x + 0.153988$

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\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

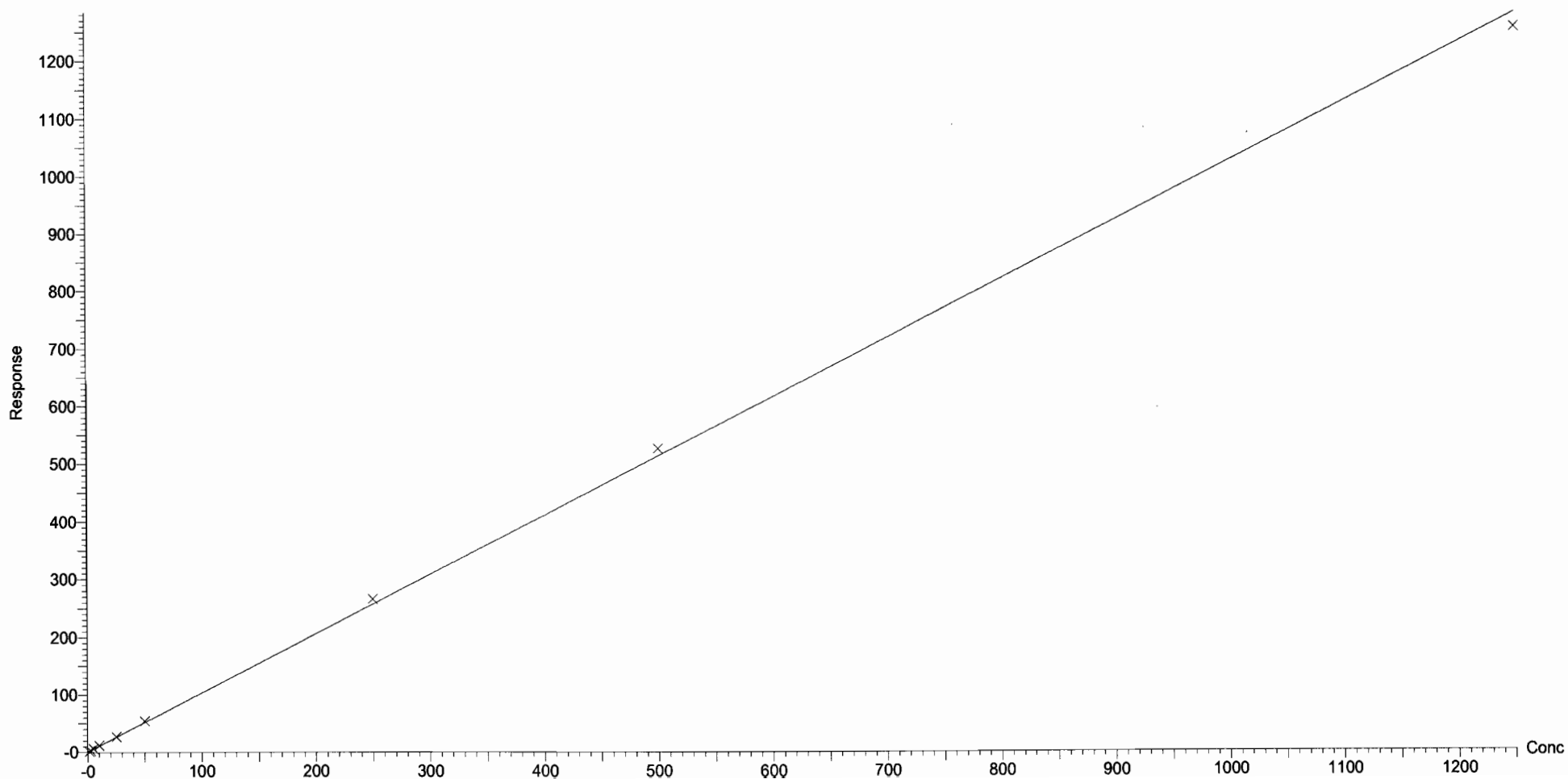
Compound name: N-MeFOSE

Correlation coefficient: $r = 0.999653$, $r^2 = 0.999306$

Calibration curve: $1.02661 * x + 0.421311$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:14:31 Pacific Daylight Time

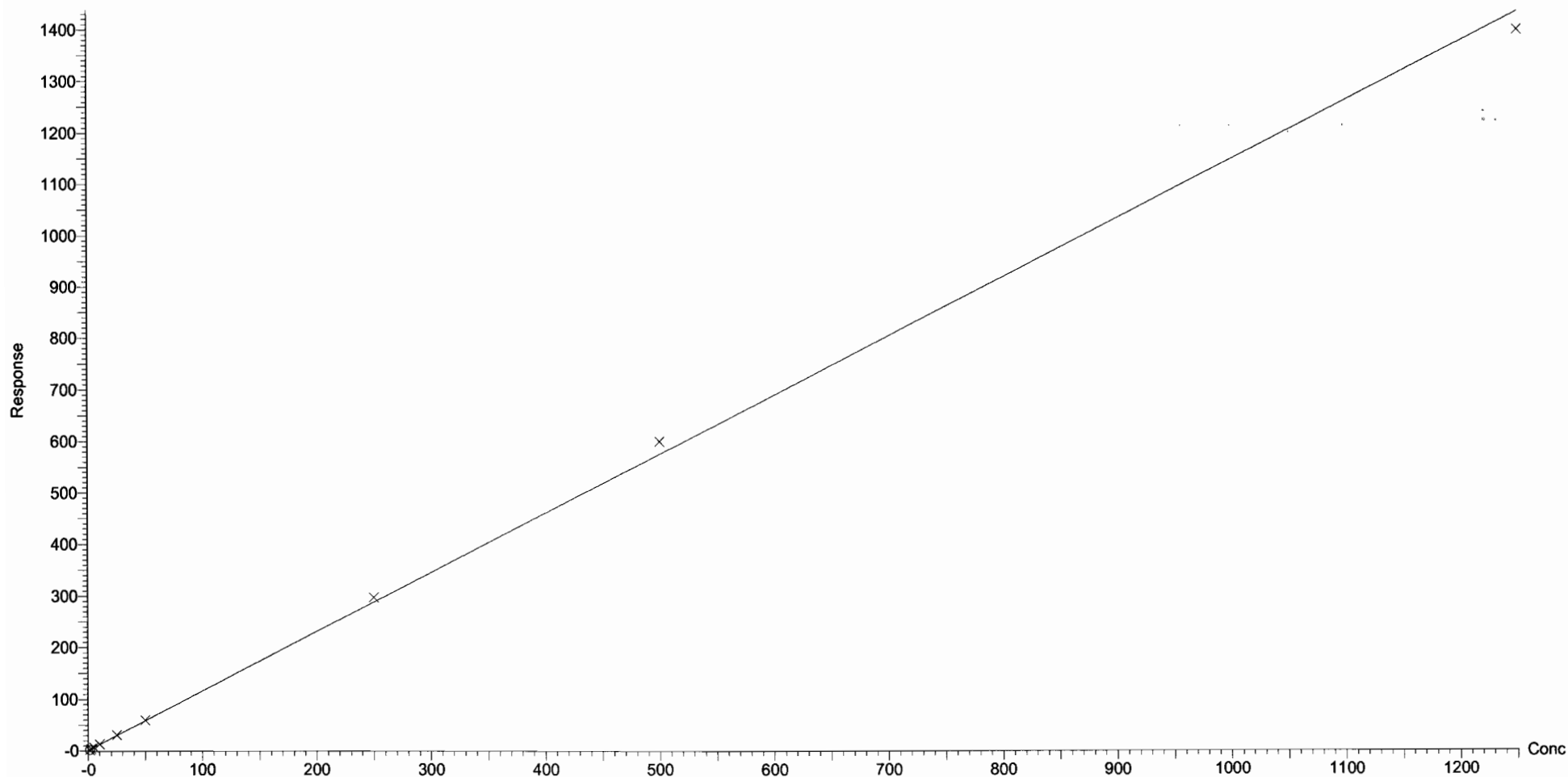
Compound name: N-EtFOSE

Correlation coefficient: $r = 0.999481$, $r^2 = 0.998963$

Calibration curve: $1.14913 * x + 1.24499$

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

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



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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

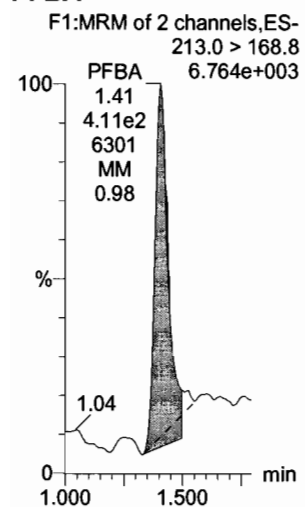
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-20-17.mdb 01 Aug 2017 09:55:07

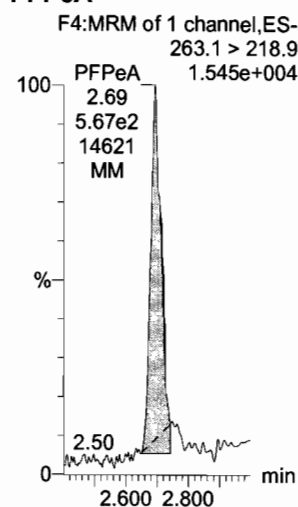
Calibration: 01 Aug 2017 10:11:08

Name: 170731M2_2, Date: 01-Aug-2017, Time: 00:39:54, ID: ST170731M2-1 PFC CS-2 17G3107, Description: PFC CS-2 17G3107

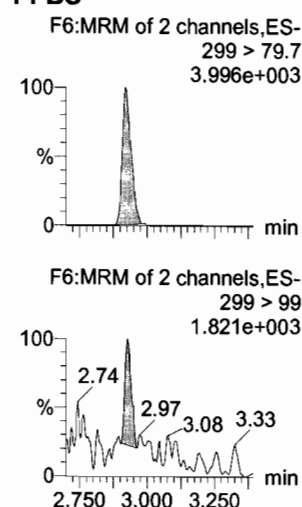
PFBA



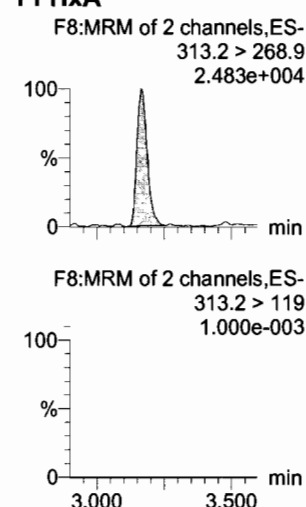
PFPeA



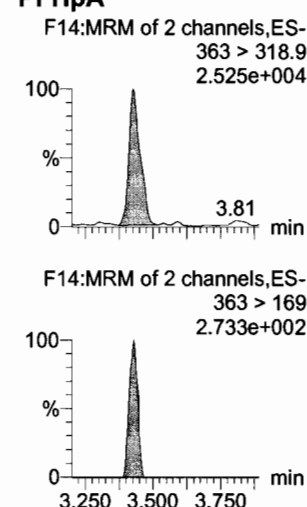
PFBS



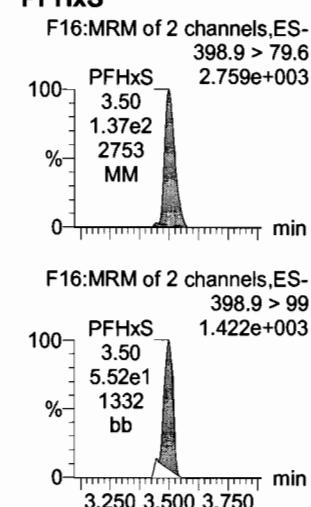
PFHxA



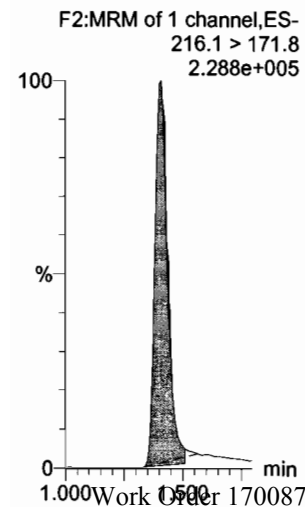
PFHpA



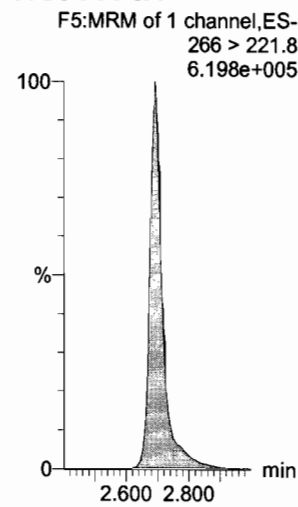
PFHxS



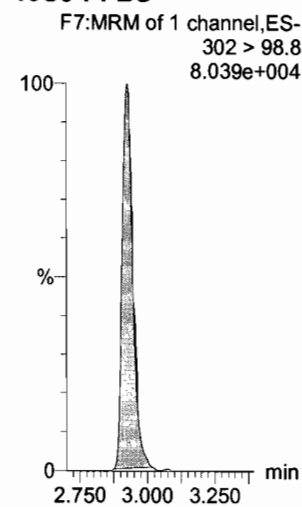
13C3-PFBA



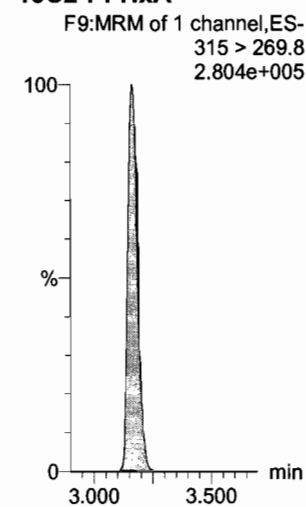
13C3-PFPeA



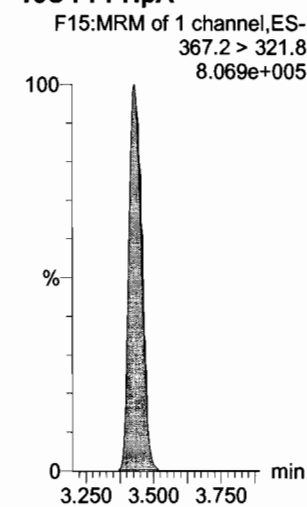
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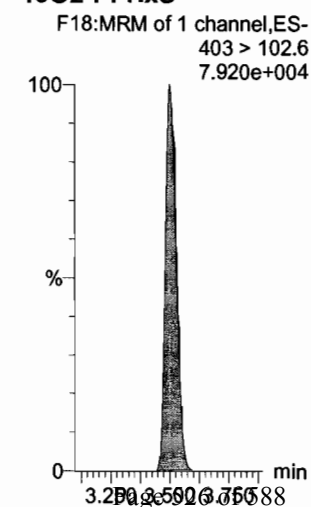
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



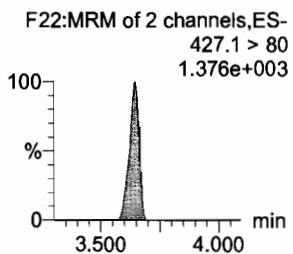
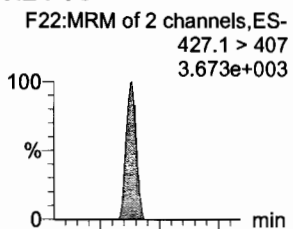
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

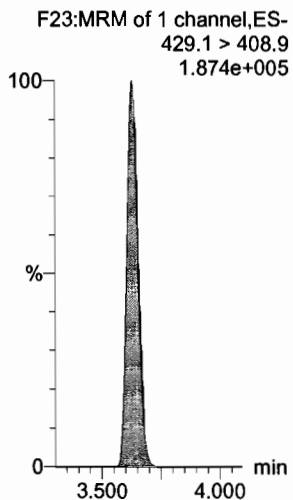
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Name: 170731M2_2, Date: 01-Aug-2017, Time: 00:39:54, ID: ST170731M2-1 PFC CS-2 17G3107, Description: PFC CS-2 17G3107

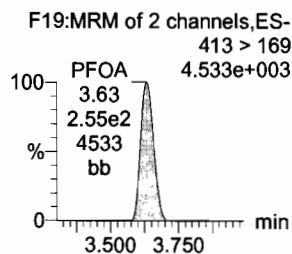
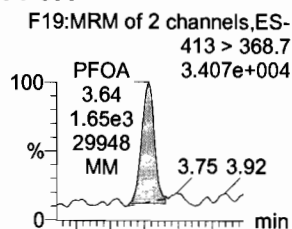
6:2 FTS



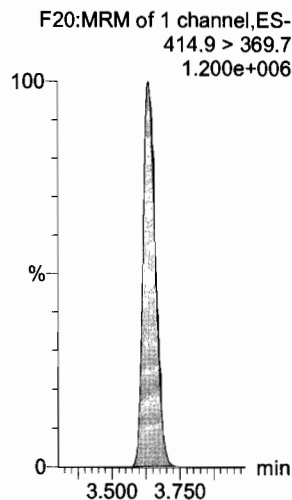
13C2-6:2 FTS



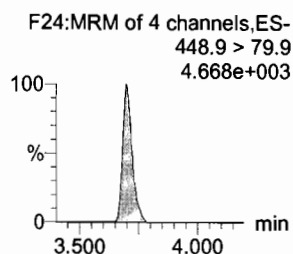
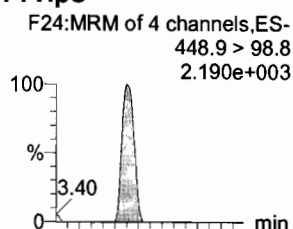
PFOA



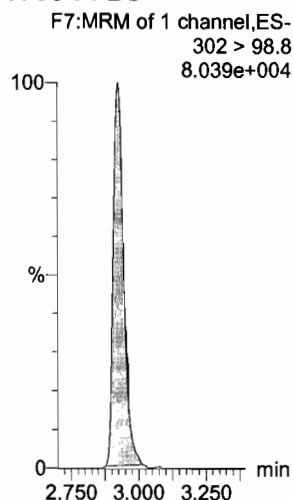
13C2-PFOA



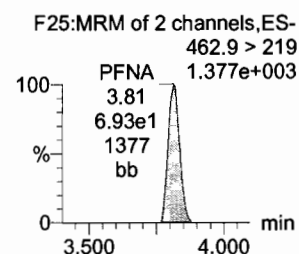
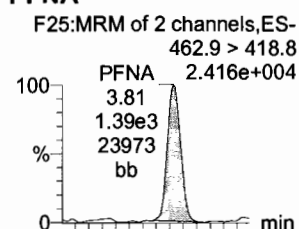
PFHpS



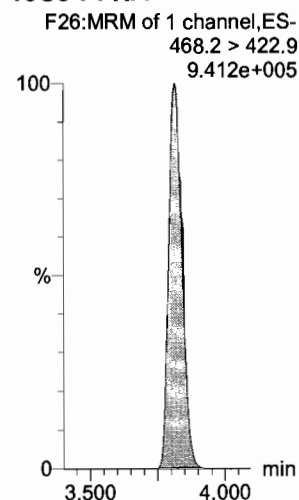
13C3-PFBS



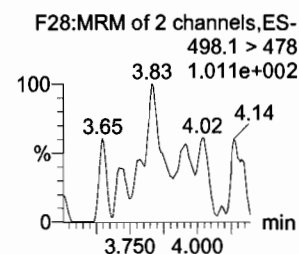
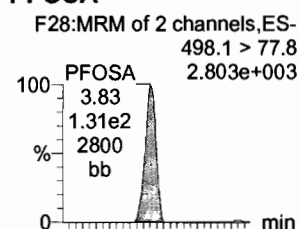
PFNA



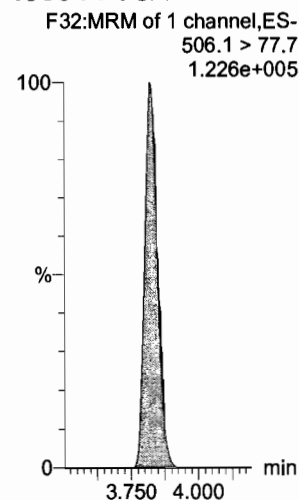
13C5-PFNA



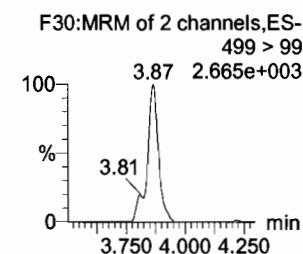
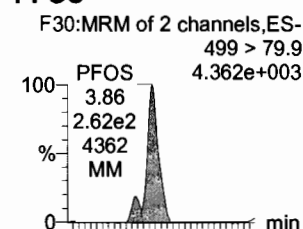
PFOSA



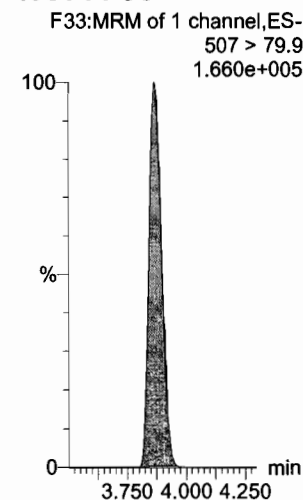
13C8-PFOSA



PFOS



13C8-PFOS



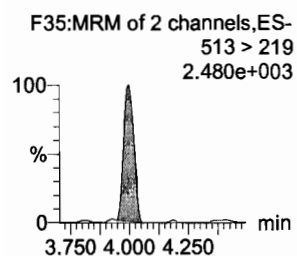
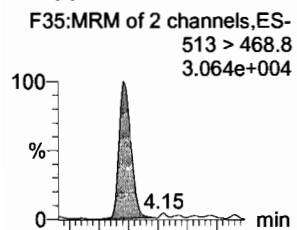
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

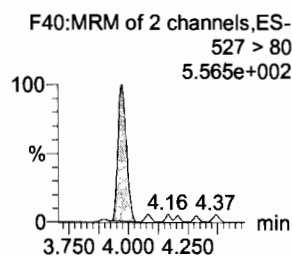
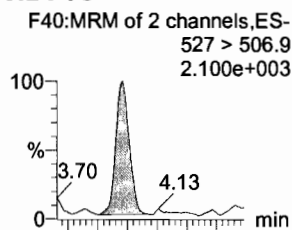
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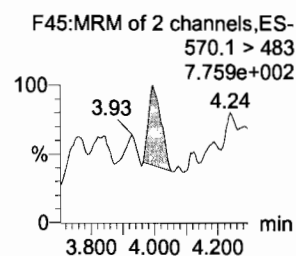
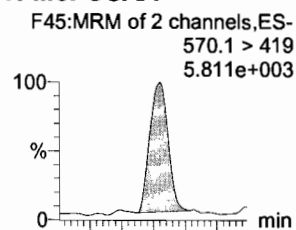
PFDA



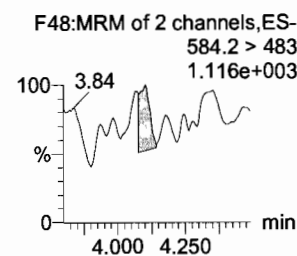
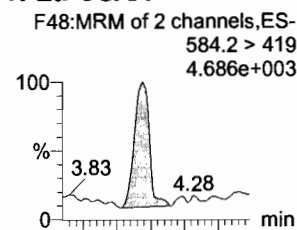
8:2 FTS



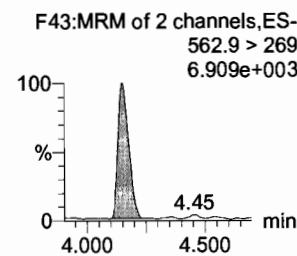
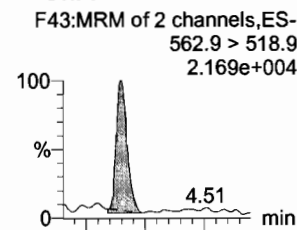
N-MeFOSAA



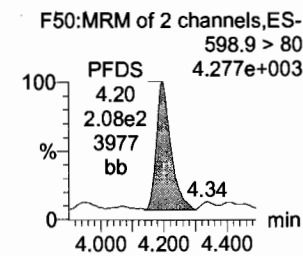
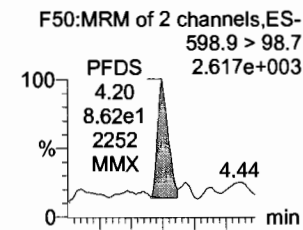
N-EtFOSAA



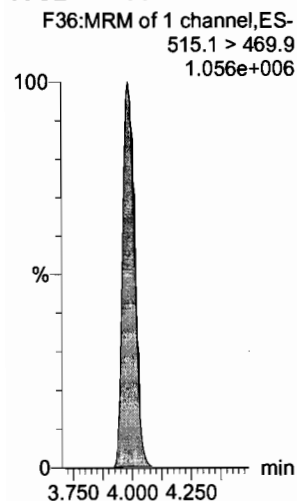
PFUnA



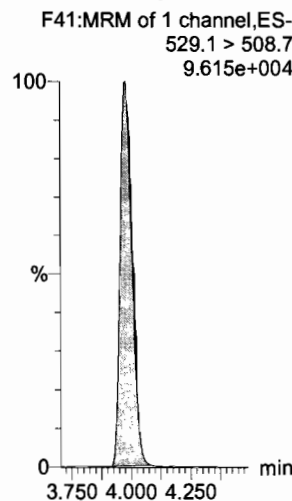
PFDS



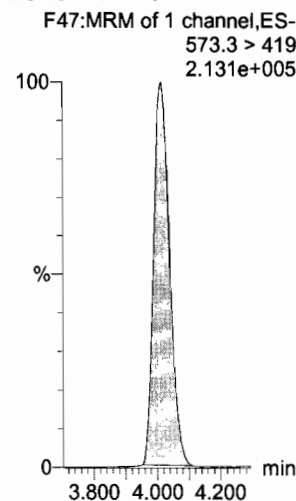
13C2-PFDA



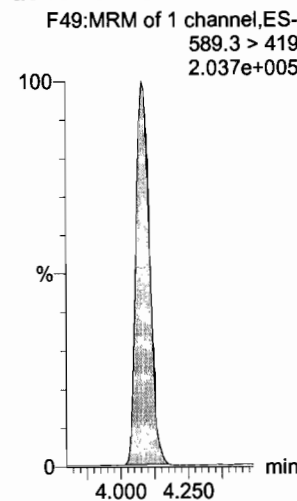
13C2-8:2 FTS



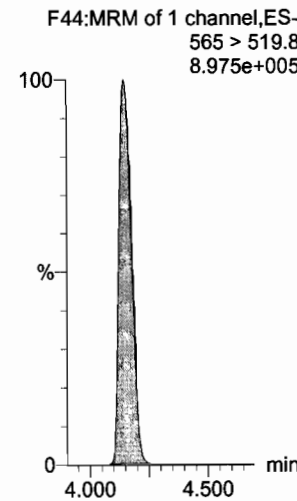
d3-N-MeFOSAA



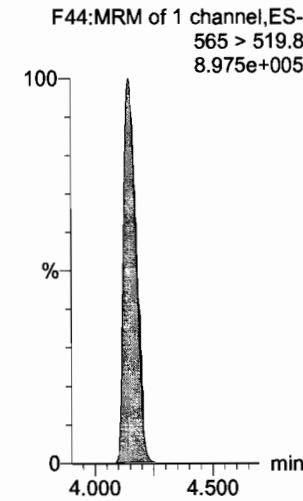
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13C2-PFUnA



13C2-PFUnA



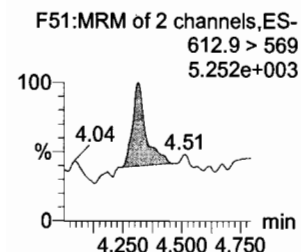
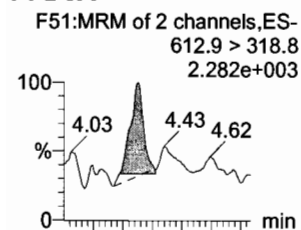
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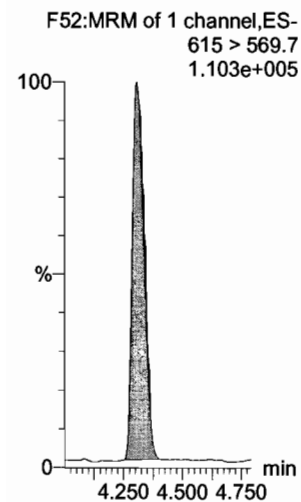
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Name: 170731M2_2, Date: 01-Aug-2017, Time: 00:39:54, ID: ST170731M2-1 PFC CS-2 17G3107, Description: PFC CS-2 17G3107

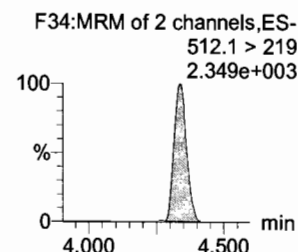
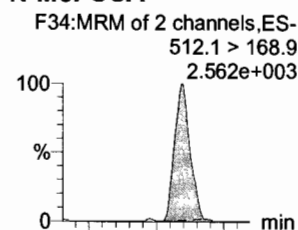
PFDaA



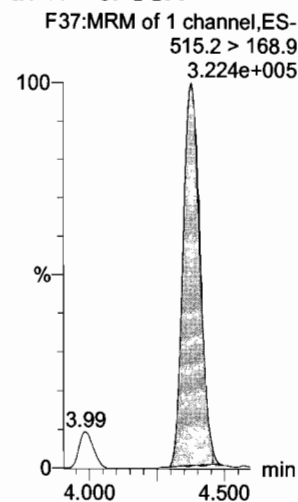
13C2-PFDaA



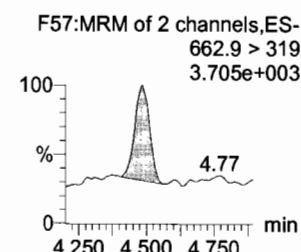
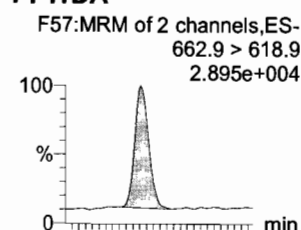
N-MeFOSA



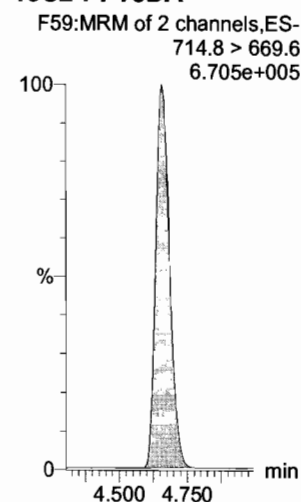
d3-N-MeFOSA



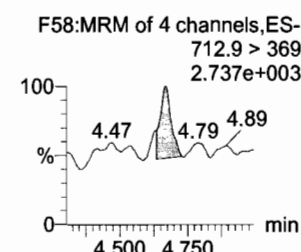
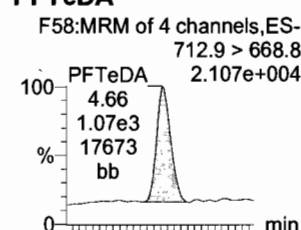
PFTrDA



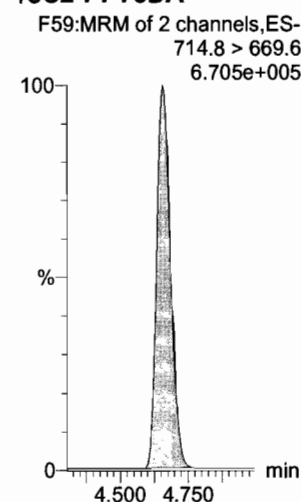
13C2-PFTeDA



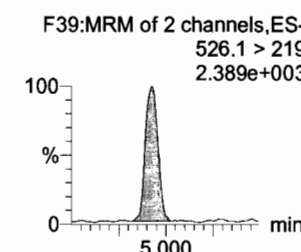
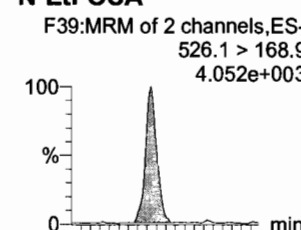
PFTeDA



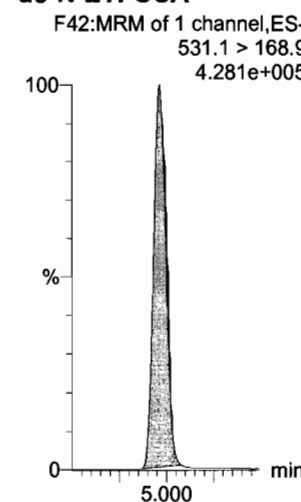
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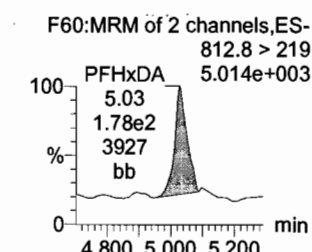
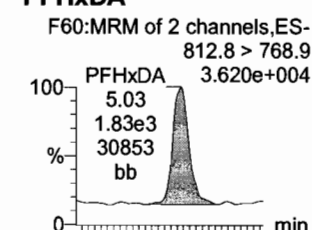
N-EtFOSA



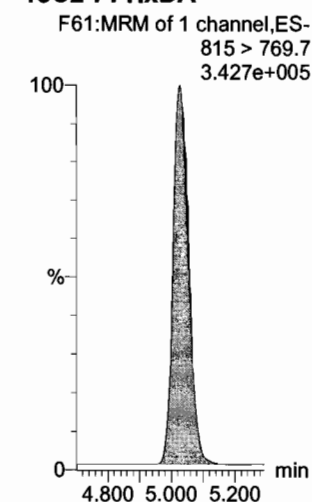
d5-N-ETFOSA



PFHxDA



13C2-PFHxDA



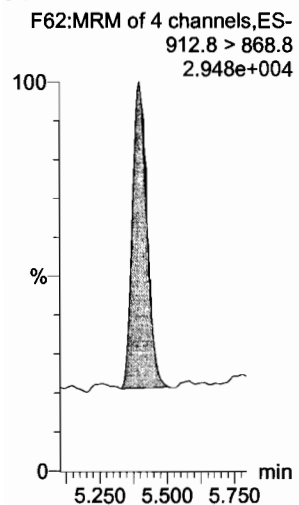
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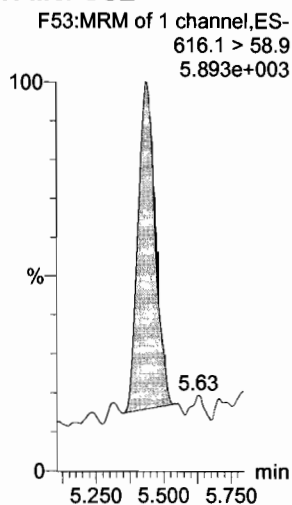
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Name: 170731M2_2, Date: 01-Aug-2017, Time: 00:39:54, ID: ST170731M2-1 PFC CS-2 17G3107, Description: PFC CS-2 17G3107

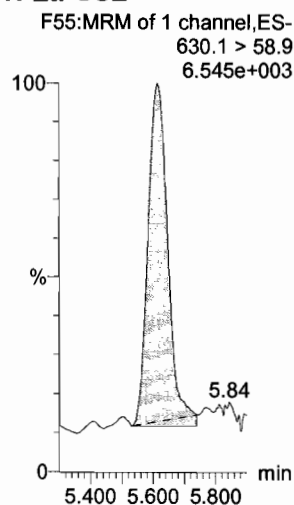
PFODA



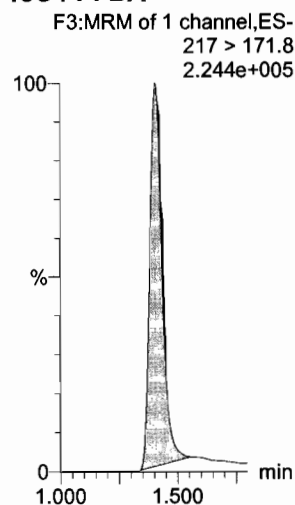
N-MeFOSE



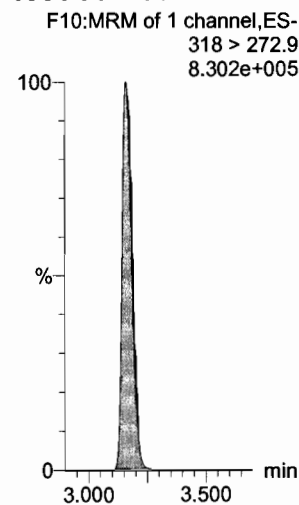
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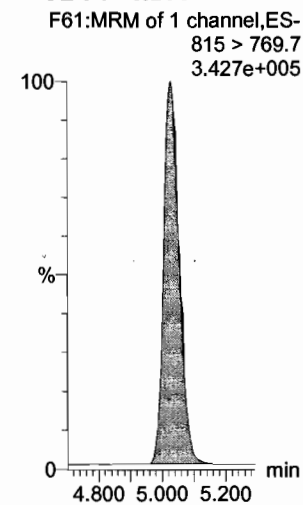
13C4-PFBA



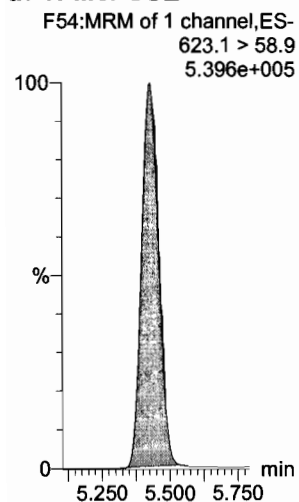
13C5-PFHxA



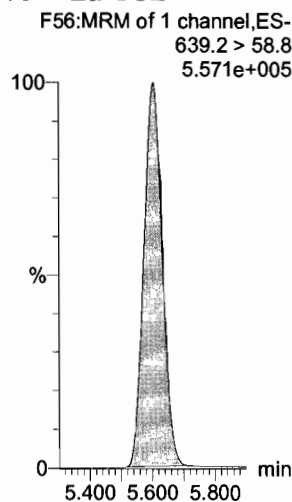
13C2-PFHxDA



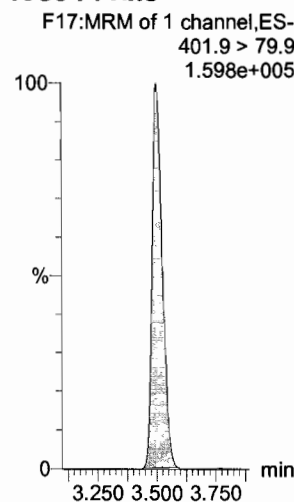
d7-N-MeFOSE



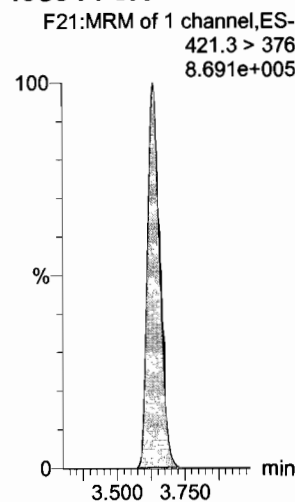
d9-N-EtFOSE



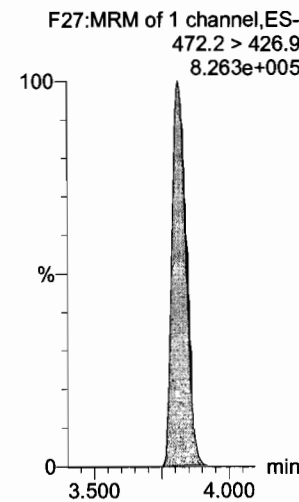
13C3-PFHxA



13C8-PFOA



13C9-PFNA



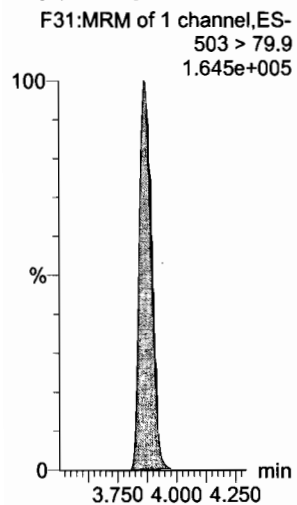
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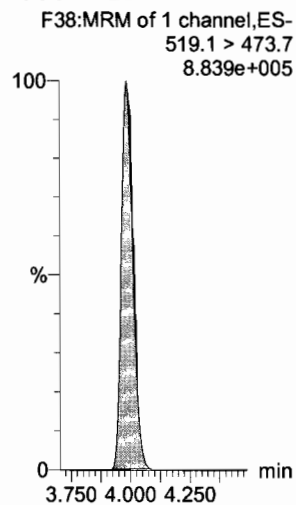
Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

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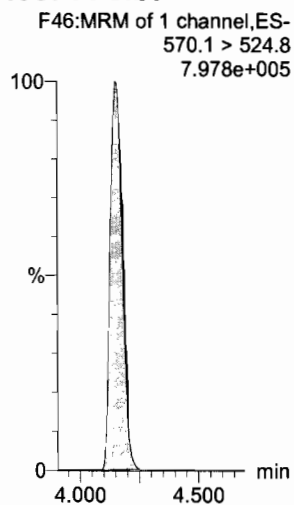
13C4-PFOS



13C6-PFDA



13C7-PFUnA

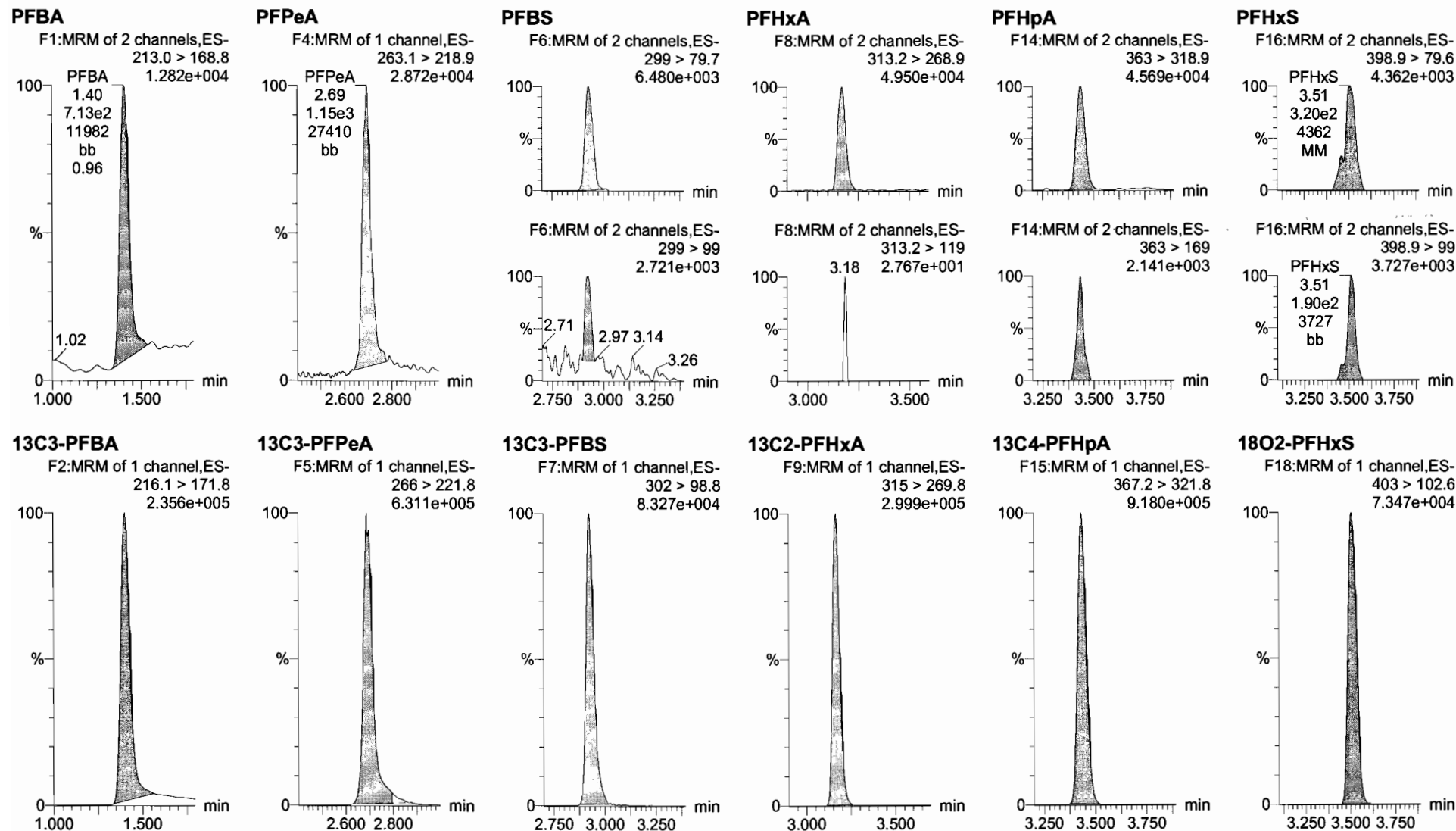


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Name: 170731M2_3, Date: 01-Aug-2017, Time: 00:50:40, ID: ST170731M2-2 PFC CS-1 17G3108, Description: PFC CS-1 17G3108



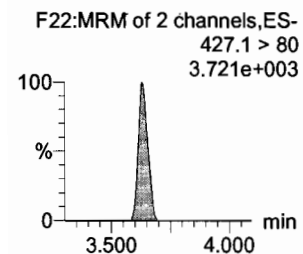
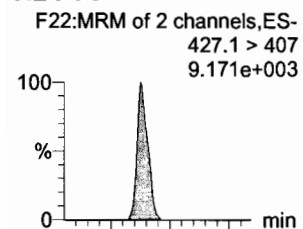
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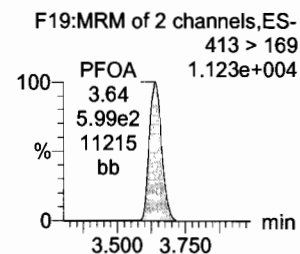
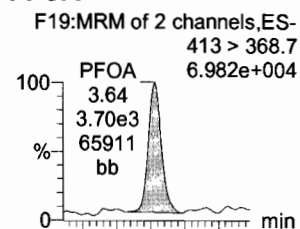
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Name: 170731M2_3, Date: 01-Aug-2017, Time: 00:50:40, ID: ST170731M2-2 PFC CS-1 17G3108, Description: PFC CS-1 17G3108

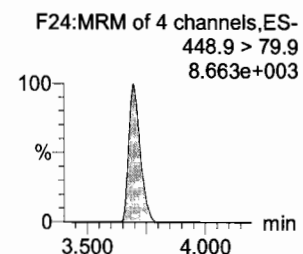
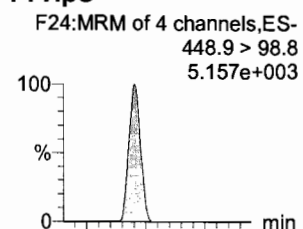
6:2 FTS



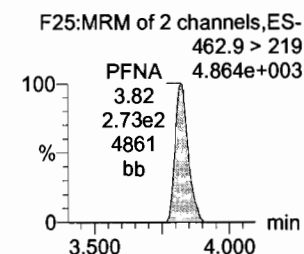
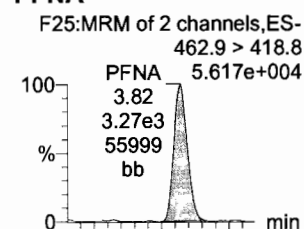
PFOA



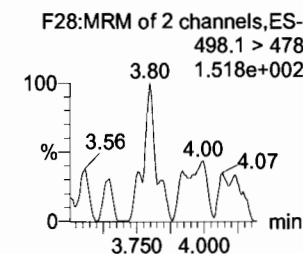
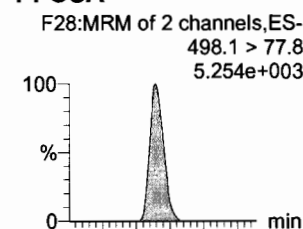
PFHpS



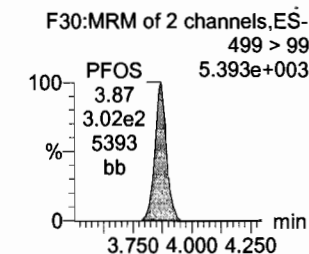
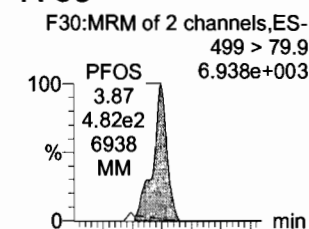
PFNA



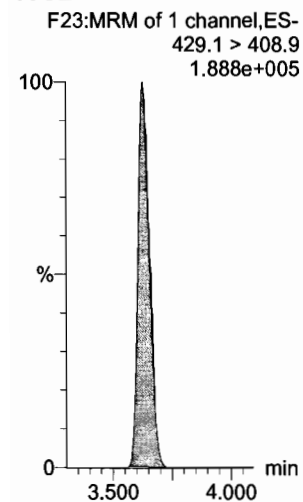
PFOSA



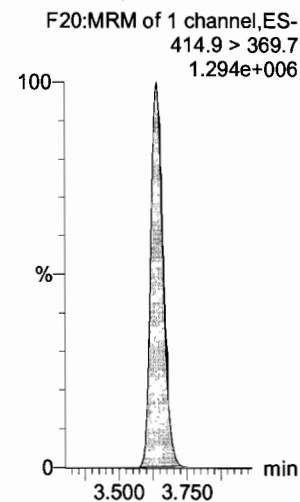
PFOS



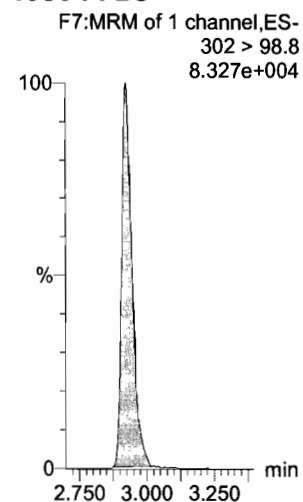
13C2-6:2 FTS



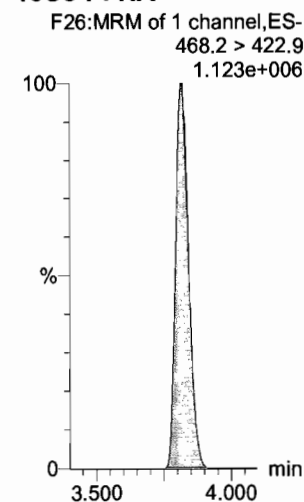
13C2-PFOA



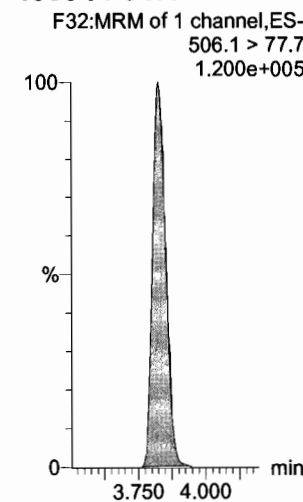
13C3-PFBS



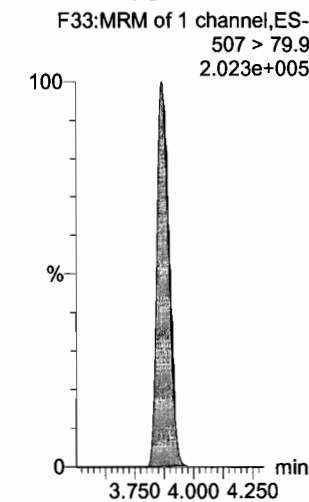
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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Name: 170731M2_3, Date: 01-Aug-2017, Time: 00:50:40, ID: ST170731M2-2 PFC CS-1 17G3108, Description: PFC CS-1 17G3108

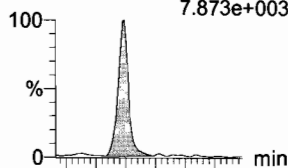
PFDA

F35:MRM of 2 channels,ES-
513 > 468.8
6.520e+004



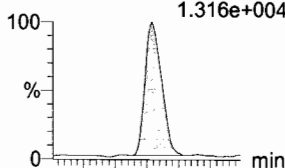
8:2 FTS

F40:MRM of 2 channels,ES-
527 > 506.9
7.873e+003



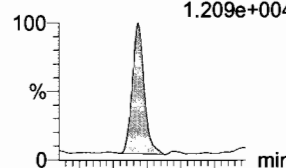
N-MeFOSAA

F45:MRM of 2 channels,ES-
570.1 > 419
1.316e+004



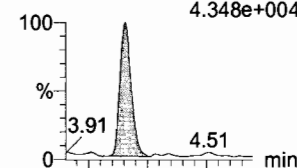
N-EtFOSAA

F48:MRM of 2 channels,ES-
584.2 > 419
1.209e+004



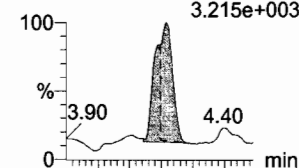
PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
4.348e+004

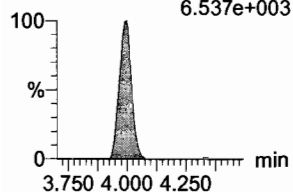


PFDS

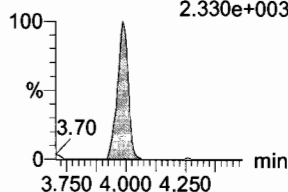
F50:MRM of 2 channels,ES-
598.9 > 98.7
3.215e+003



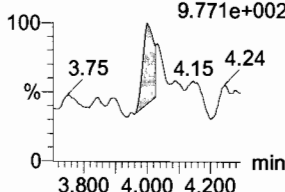
F35:MRM of 2 channels,ES-
513 > 219
6.537e+003



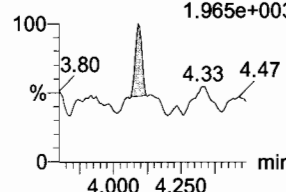
F40:MRM of 2 channels,ES-
527 > 80
2.330e+003



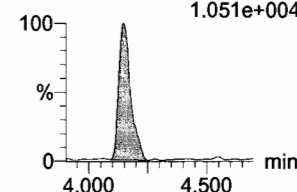
F45:MRM of 2 channels,ES-
570.1 > 483
9.771e+002



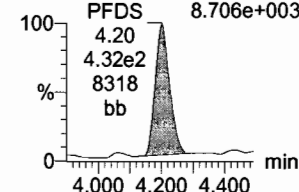
F48:MRM of 2 channels,ES-
584.2 > 483
1.965e+003



F43:MRM of 2 channels,ES-
562.9 > 269
1.051e+004

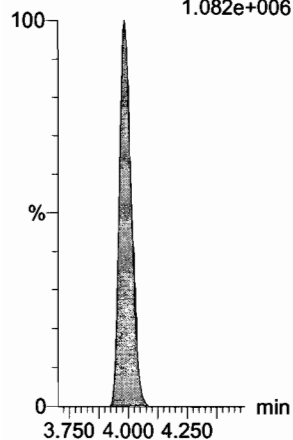


F50:MRM of 2 channels,ES-
598.9 > 80
8.706e+003



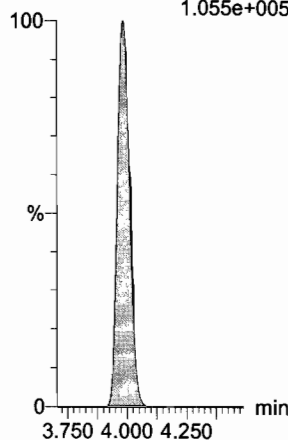
13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
1.082e+006



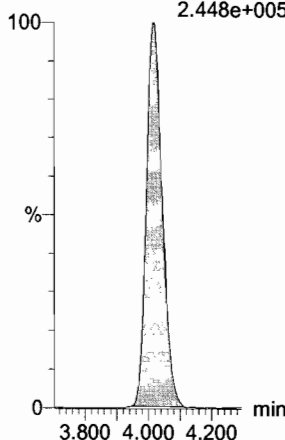
13C2-8:2 FTS

F41:MRM of 1 channel,ES-
529.1 > 508.7
1.055e+005



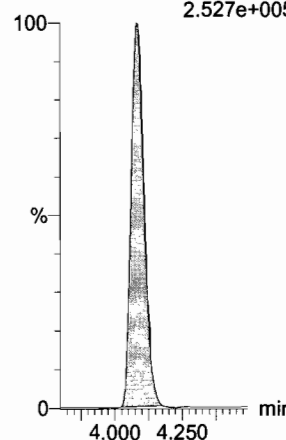
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
2.448e+005



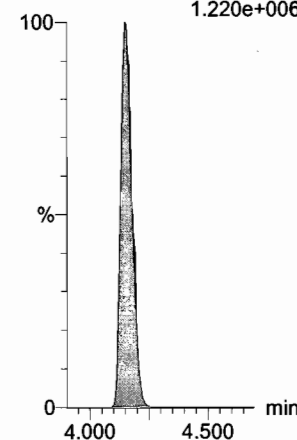
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
2.527e+005



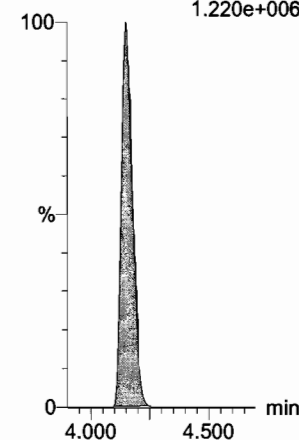
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.220e+006



13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.220e+006



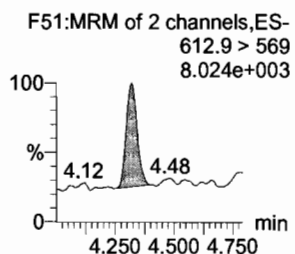
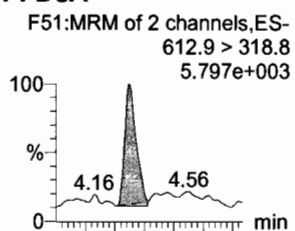
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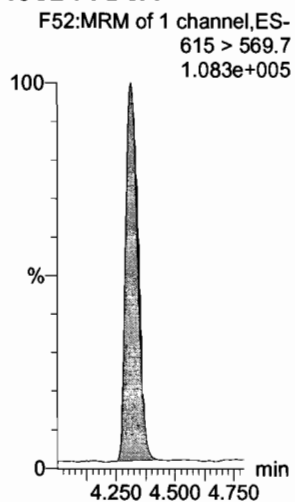
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Name: 170731M2_3, Date: 01-Aug-2017, Time: 00:50:40, ID: ST170731M2-2 PFC CS-1 17G3108, Description: PFC CS-1 17G3108

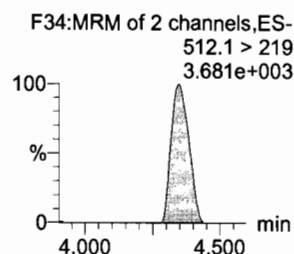
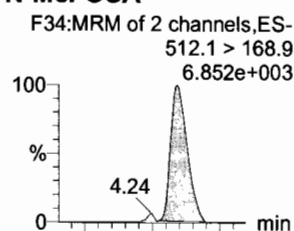
PFDaA



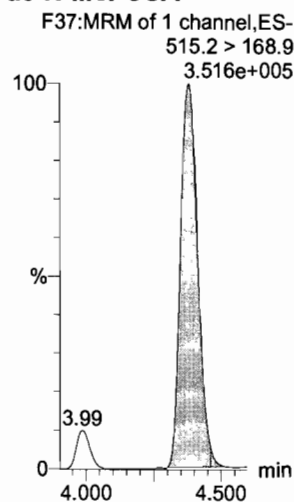
13C2-PFDaA



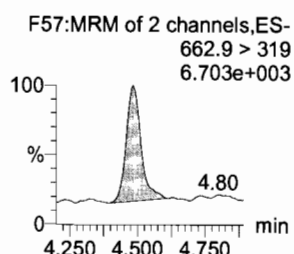
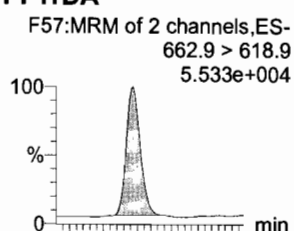
N-MeFOSA



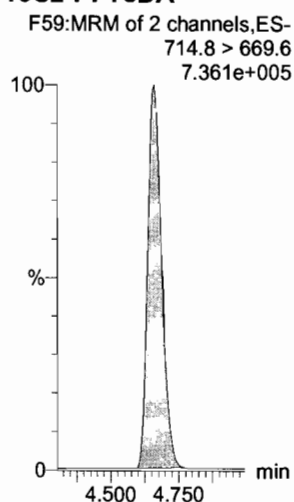
d3-N-MeFOSA



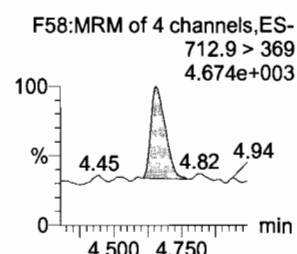
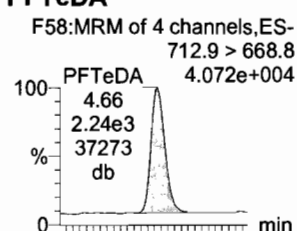
PFTrDA



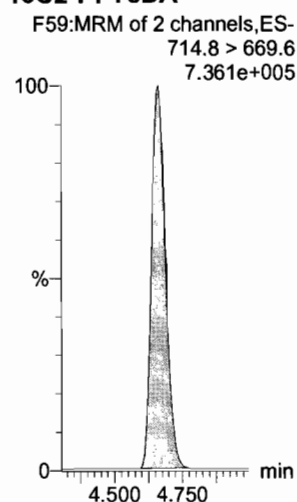
13C2-PFTeDA



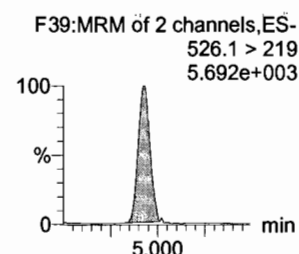
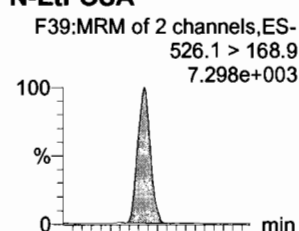
PFTeDA



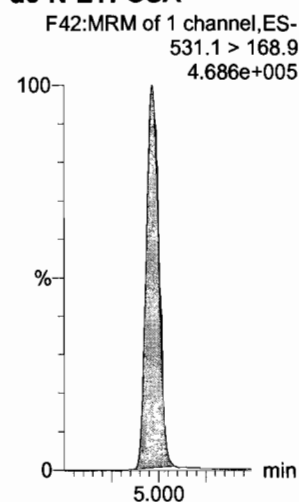
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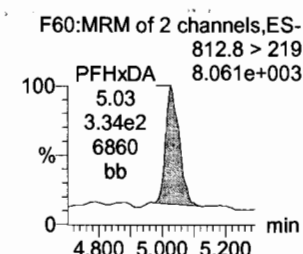
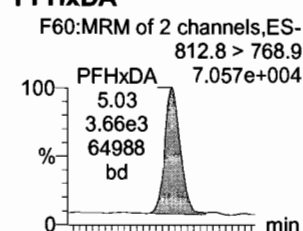
N-EtFOSA



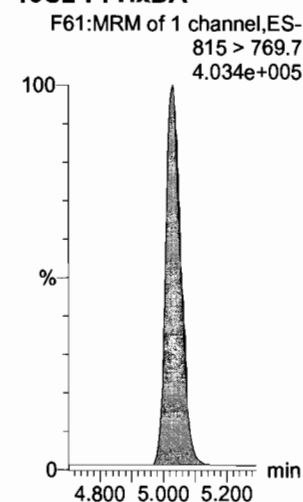
d5-N-ETFOSA



PFHxDA



13C2-PFHxDA



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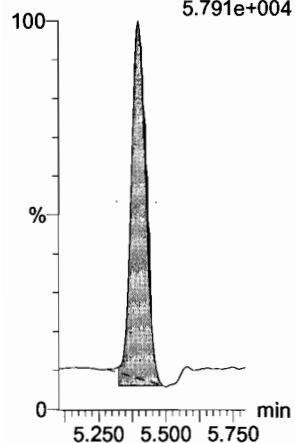
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Name: 170731M2_3, Date: 01-Aug-2017, Time: 00:50:40, ID: ST170731M2-2 PFC CS-1 17G3108, Description: PFC CS-1 17G3108

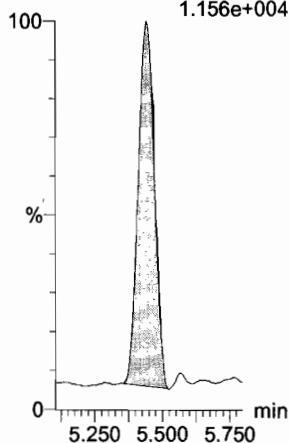
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
5.791e+004



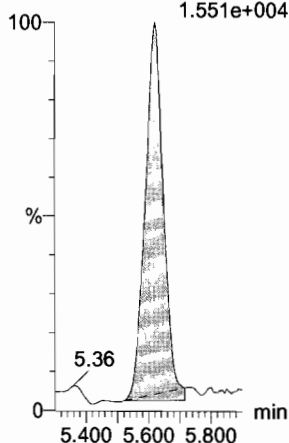
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
1.156e+004



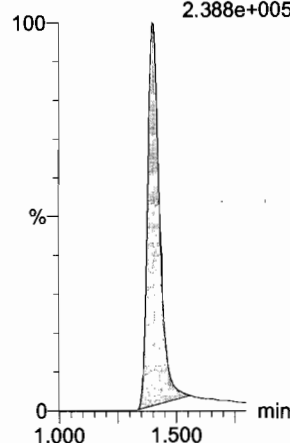
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
1.551e+004



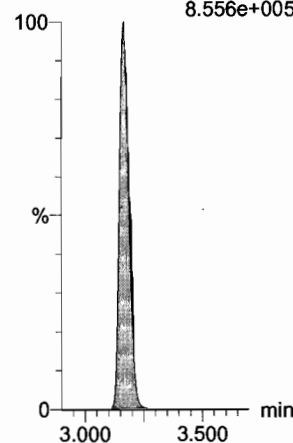
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
2.388e+005



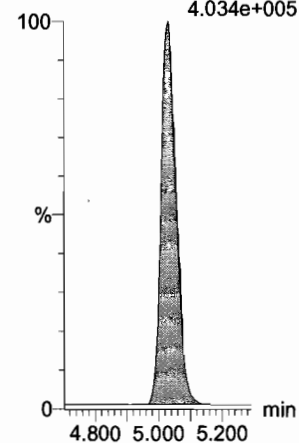
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.556e+005



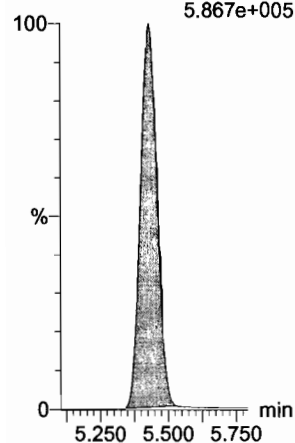
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
4.034e+005



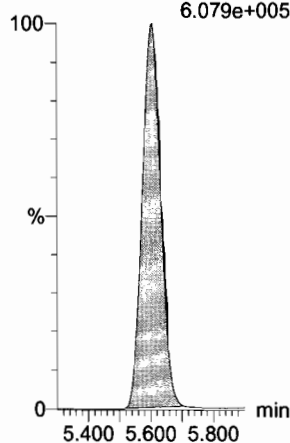
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.867e+005



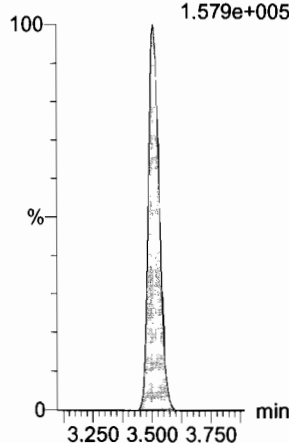
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
6.079e+005



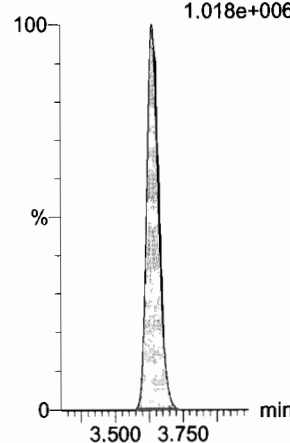
13C3-PFHxA

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.579e+005



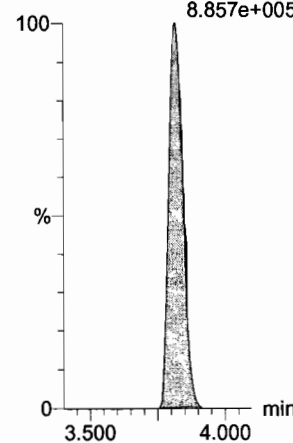
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.018e+006



13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
8.857e+005



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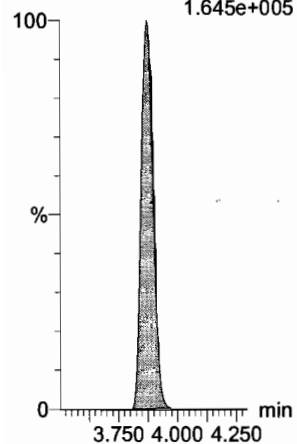
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Name: 170731M2_3, Date: 01-Aug-2017, Time: 00:50:40, ID: ST170731M2-2 PFC CS-1 17G3108, Description: PFC CS-1 17G3108

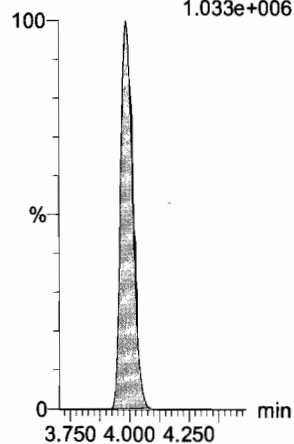
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.645e+005



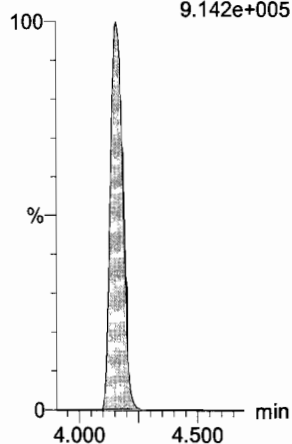
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.033e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
9.142e+005



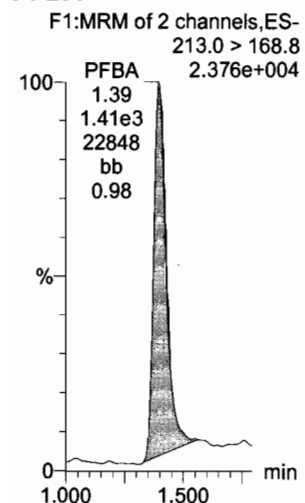
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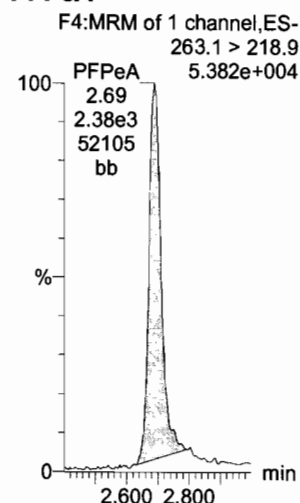
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Name: 170731M2_4, Date: 01-Aug-2017, Time: 01:01:18, ID: ST170731M2-3 PFC CS0 17G3109, Description: PFC CS0 17G3109

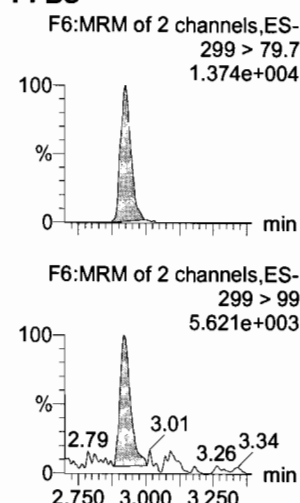
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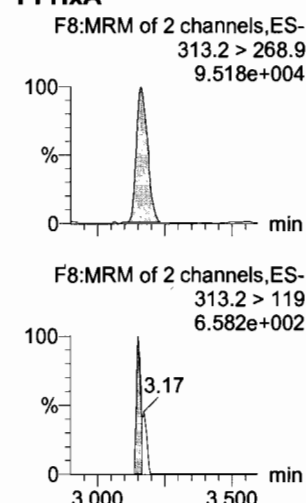
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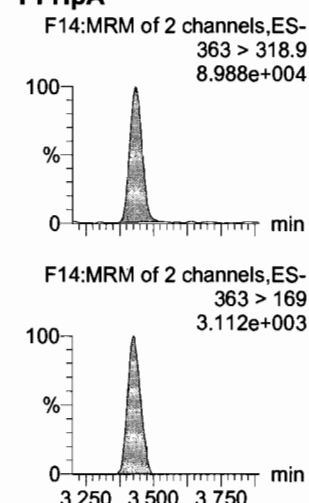
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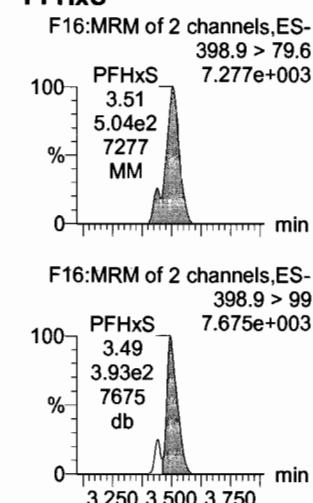
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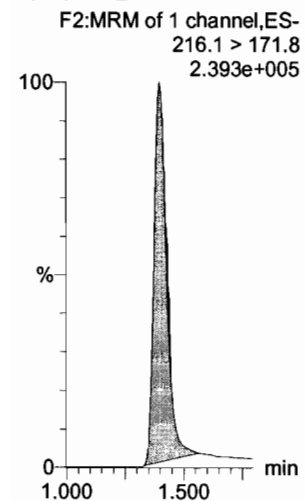
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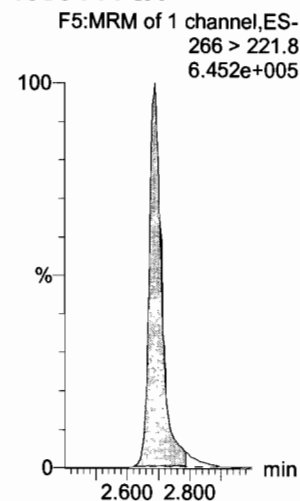
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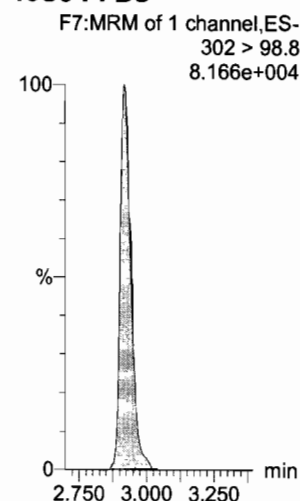
13C3-PFBA



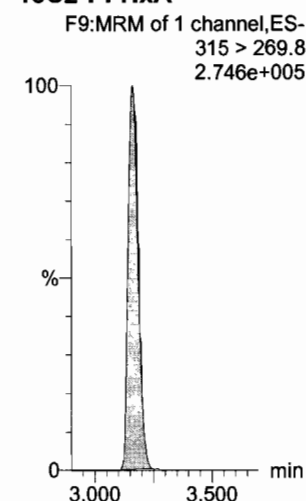
13C3-PFPeA



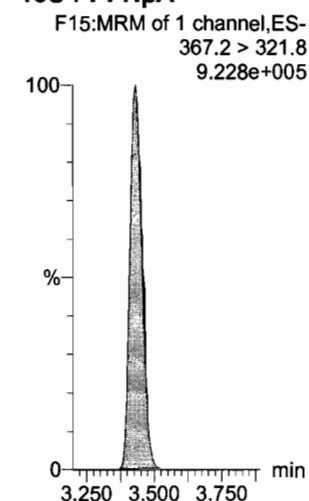
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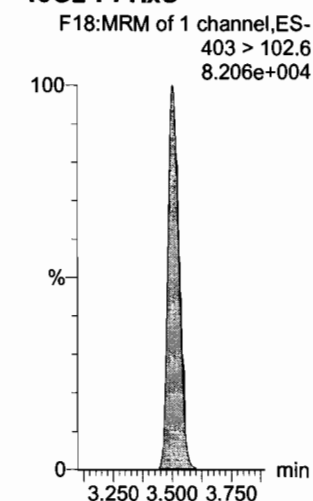
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



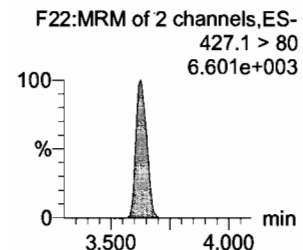
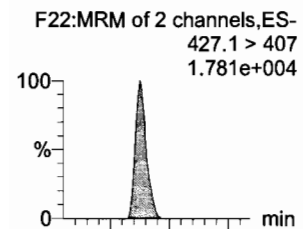
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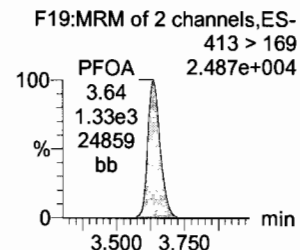
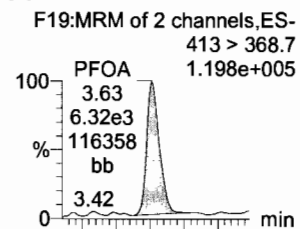
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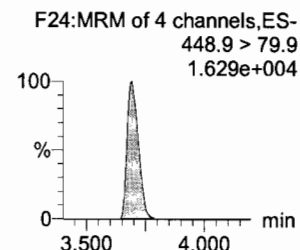
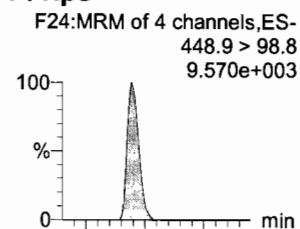
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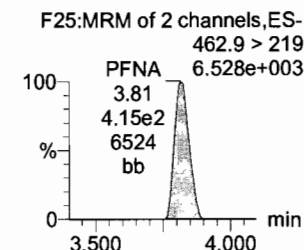
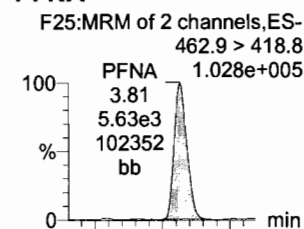
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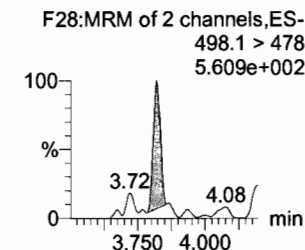
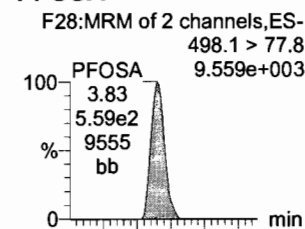
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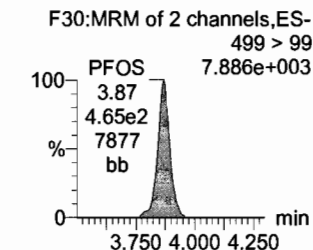
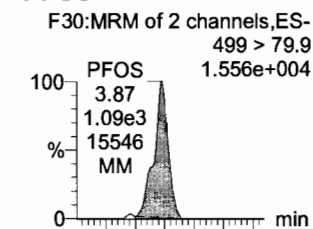
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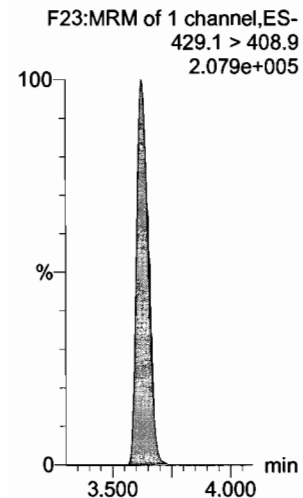
PFOSA



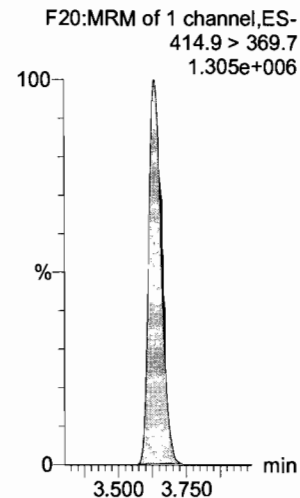
PFOS



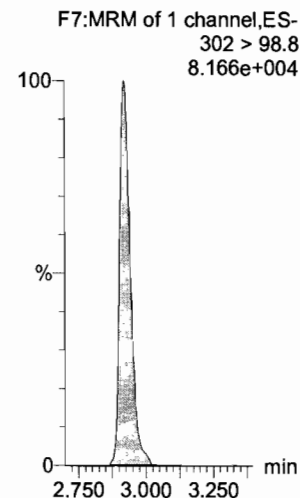
13C2-6:2 FTS



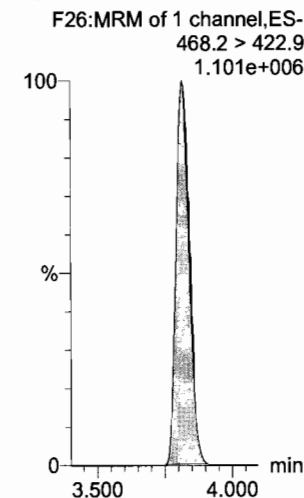
13C2-PFOA



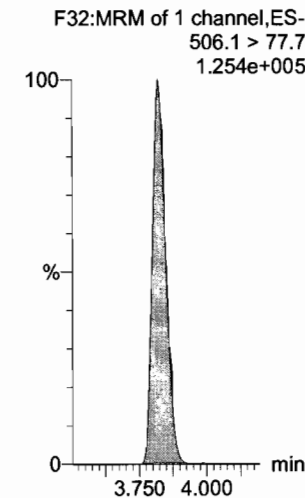
13C3-PFBS



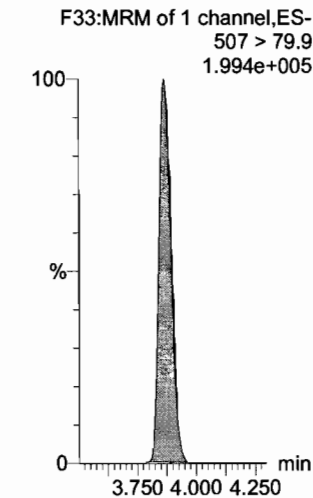
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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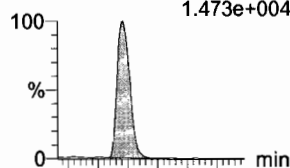
PFDA

F35:MRM of 2 channels,ES-
513 > 468.8
1.255e+005



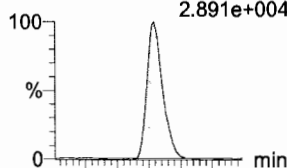
8:2 FTS

F40:MRM of 2 channels,ES-
527 > 506.9
1.473e+004



N-MeFOSAA

F45:MRM of 2 channels,ES-
570.1 > 419
2.891e+004



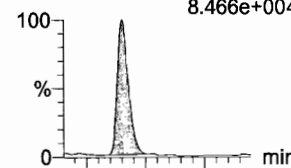
N-EtFOSAA

F48:MRM of 2 channels,ES-
584.2 > 419
1.728e+004



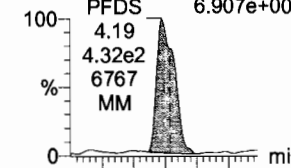
PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
8.466e+004

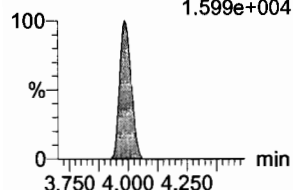


PFDS

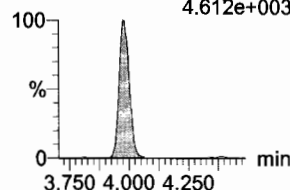
F50:MRM of 2 channels,ES-
598.9 > 98.7
6.907e+003



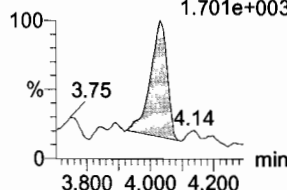
F35:MRM of 2 channels,ES-
513 > 219
1.599e+004



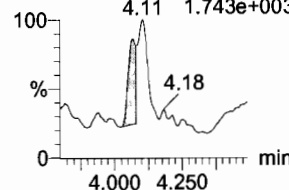
F40:MRM of 2 channels,ES-
527 > 80
4.612e+003



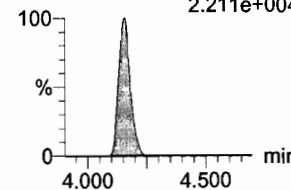
F45:MRM of 2 channels,ES-
570.1 > 483
1.701e+003



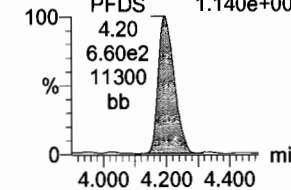
F48:MRM of 2 channels,ES-
584.2 > 483
1.743e+003



F43:MRM of 2 channels,ES-
562.9 > 269
2.211e+004

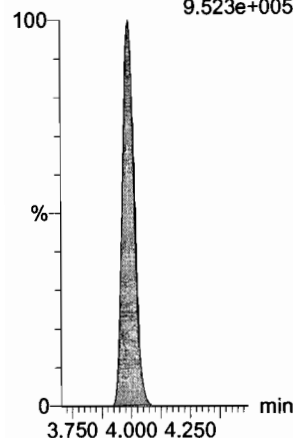


F50:MRM of 2 channels,ES-
598.9 > 80
1.140e+004



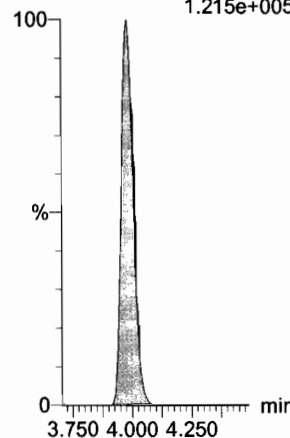
13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
9.523e+005



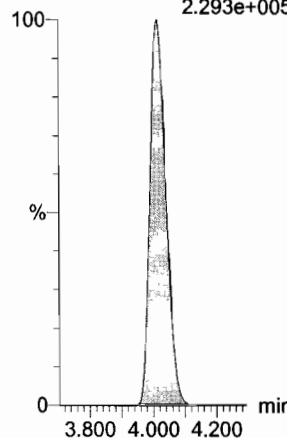
13C2-8:2 FTS

F41:MRM of 1 channel,ES-
529.1 > 508.7
1.215e+005



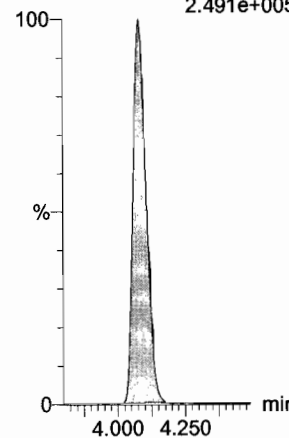
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
2.293e+005



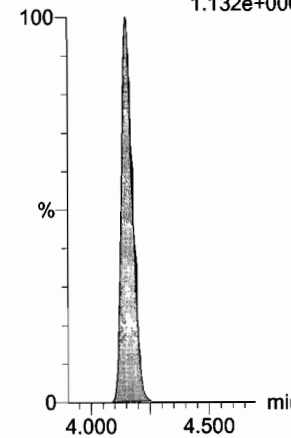
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
2.491e+005



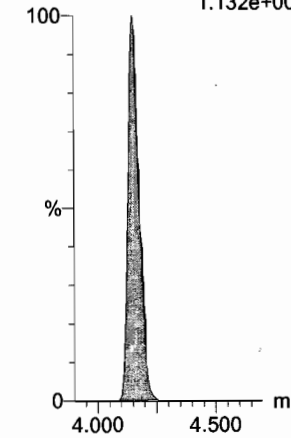
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.132e+006



13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
1.132e+006



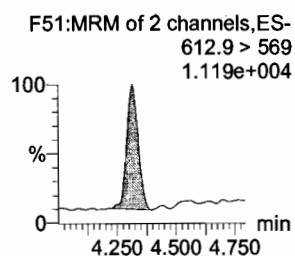
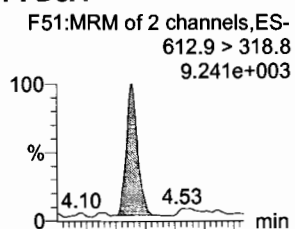
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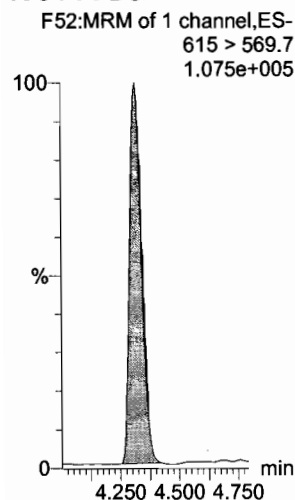
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Name: 170731M2_4, Date: 01-Aug-2017, Time: 01:01:18, ID: ST170731M2-3 PFC CS0 17G3109, Description: PFC CS0 17G3109

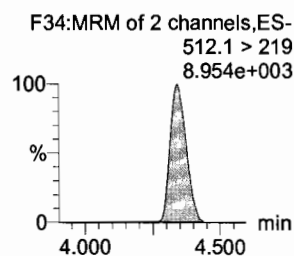
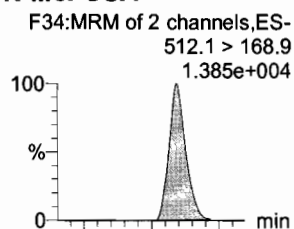
PFDaA



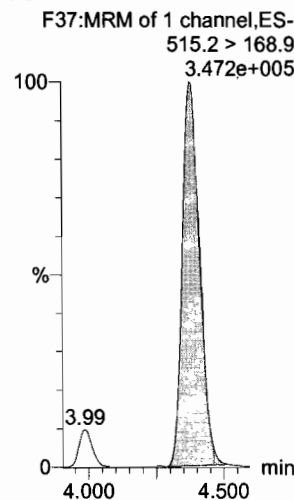
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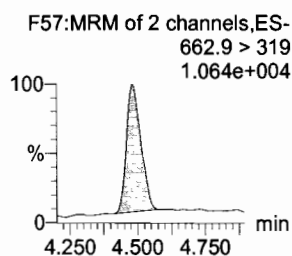
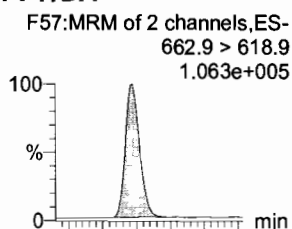
N-MeFOSA



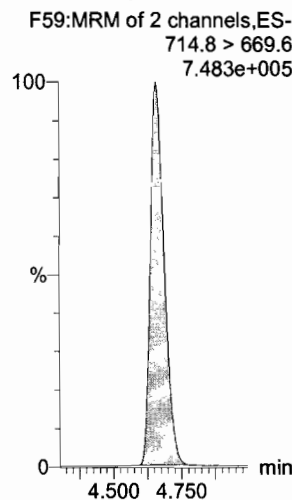
d3-N-MeFOSA



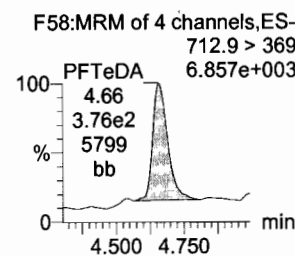
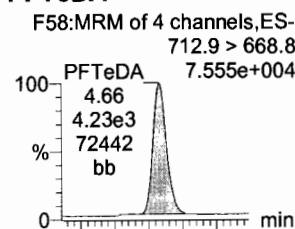
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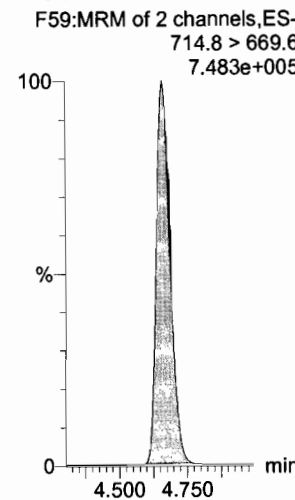
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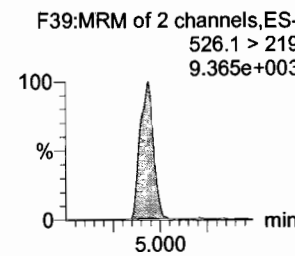
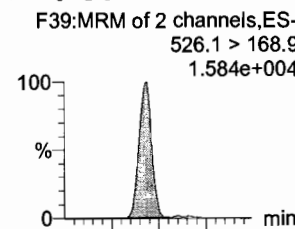
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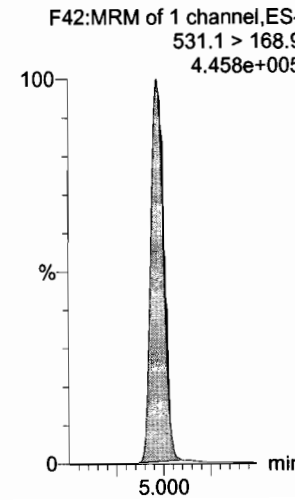
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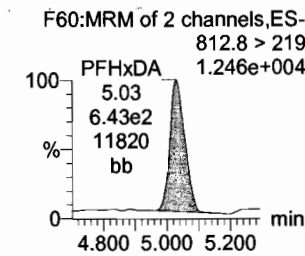
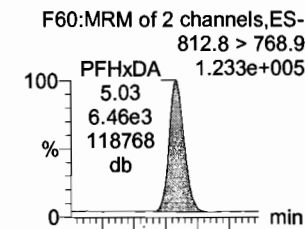
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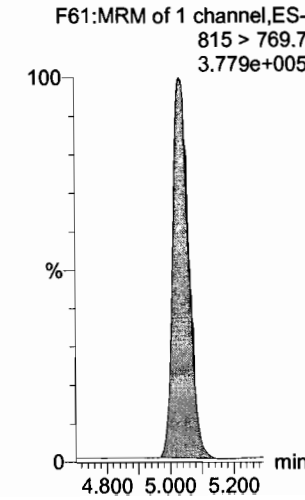
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PFHxDA



13C2-PFHxDA

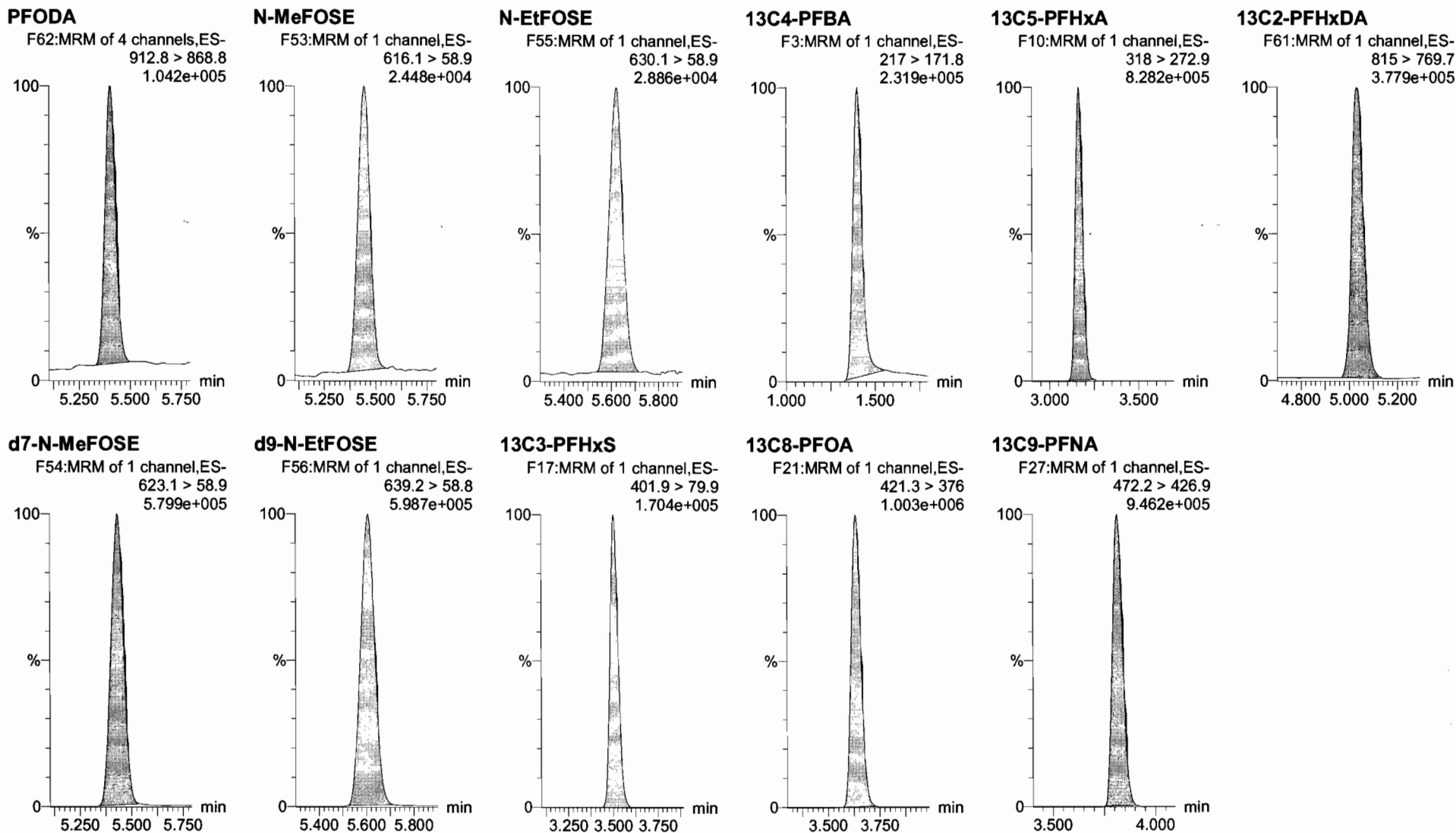


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Name: 170731M2_4, Date: 01-Aug-2017, Time: 01:01:18, ID: ST170731M2-3 PFC CS0 17G3109, Description: PFC CS0 17G3109

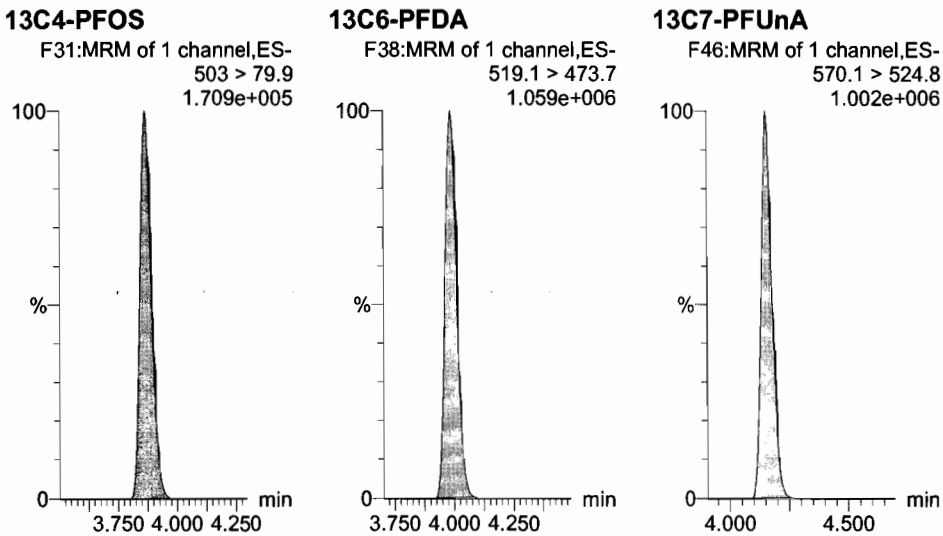


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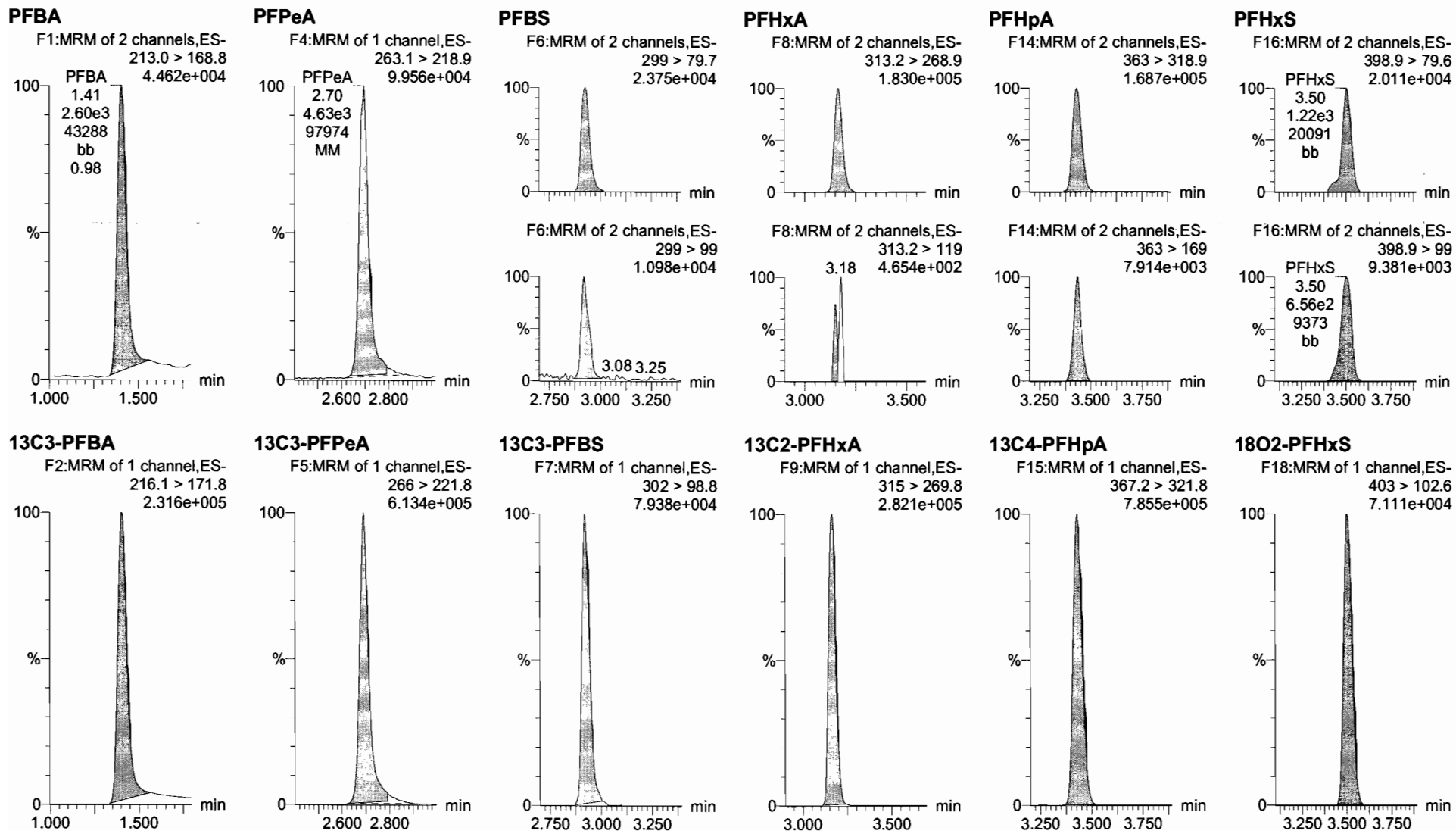


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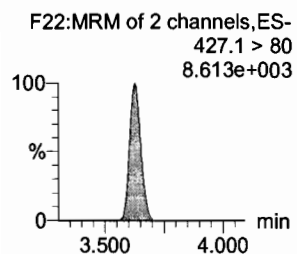
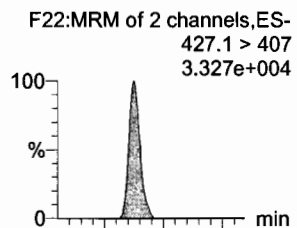
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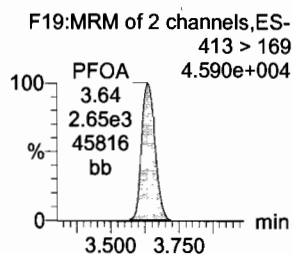
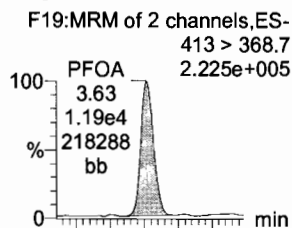
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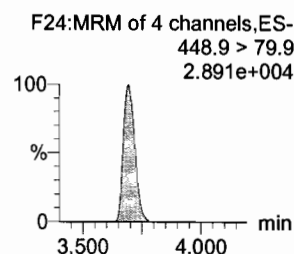
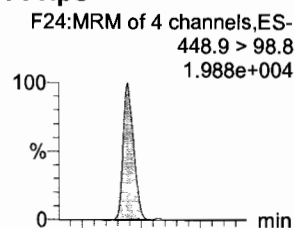
6:2 FTS



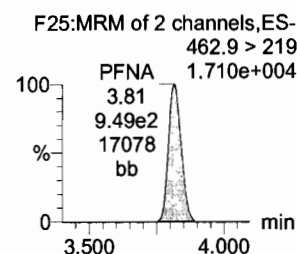
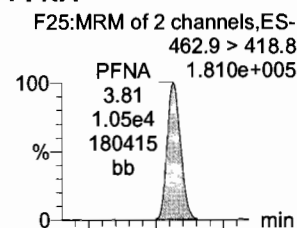
PFOA



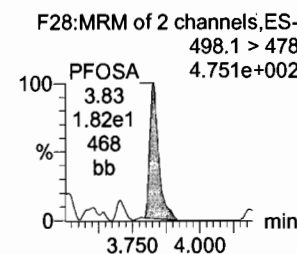
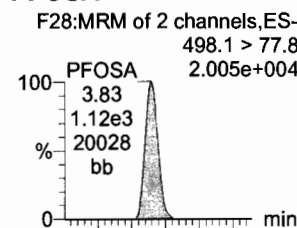
PFHpS



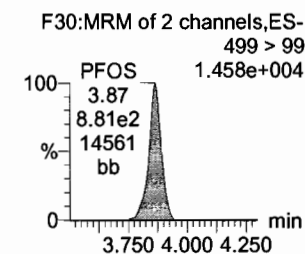
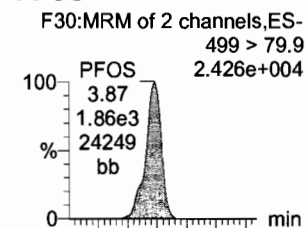
PFNA



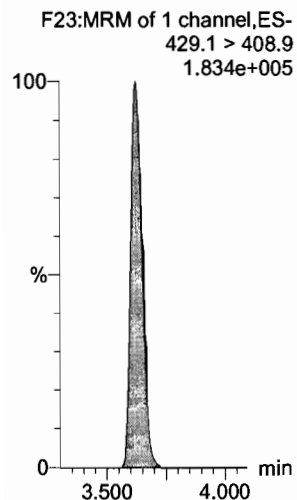
PFOSA



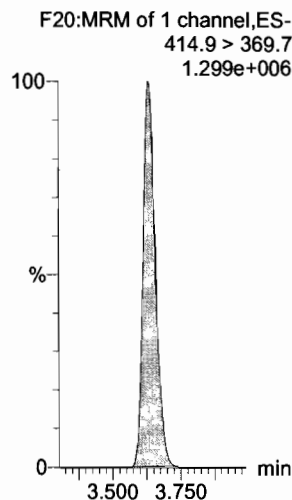
PFOS



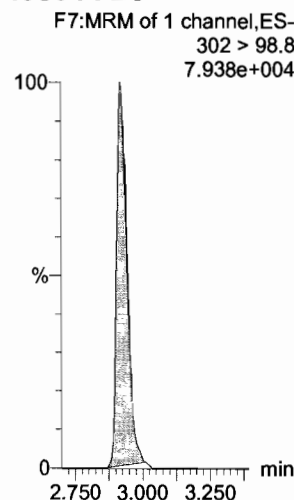
13C2-6:2 FTS



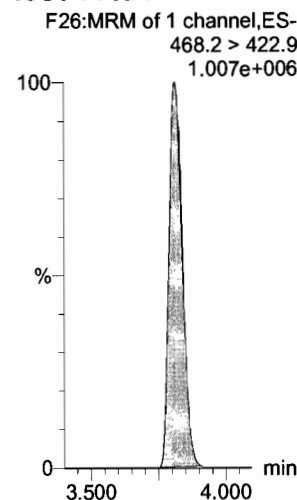
13C2-PFOA



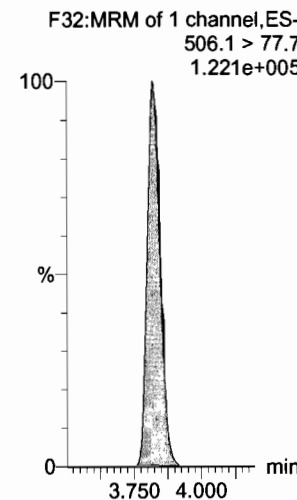
13C3-PFBS



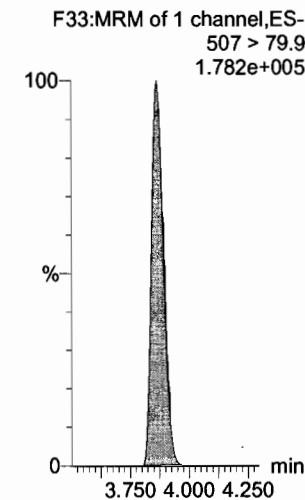
13C5-PFNA



13C8-PFOSA



13C8-PFOS

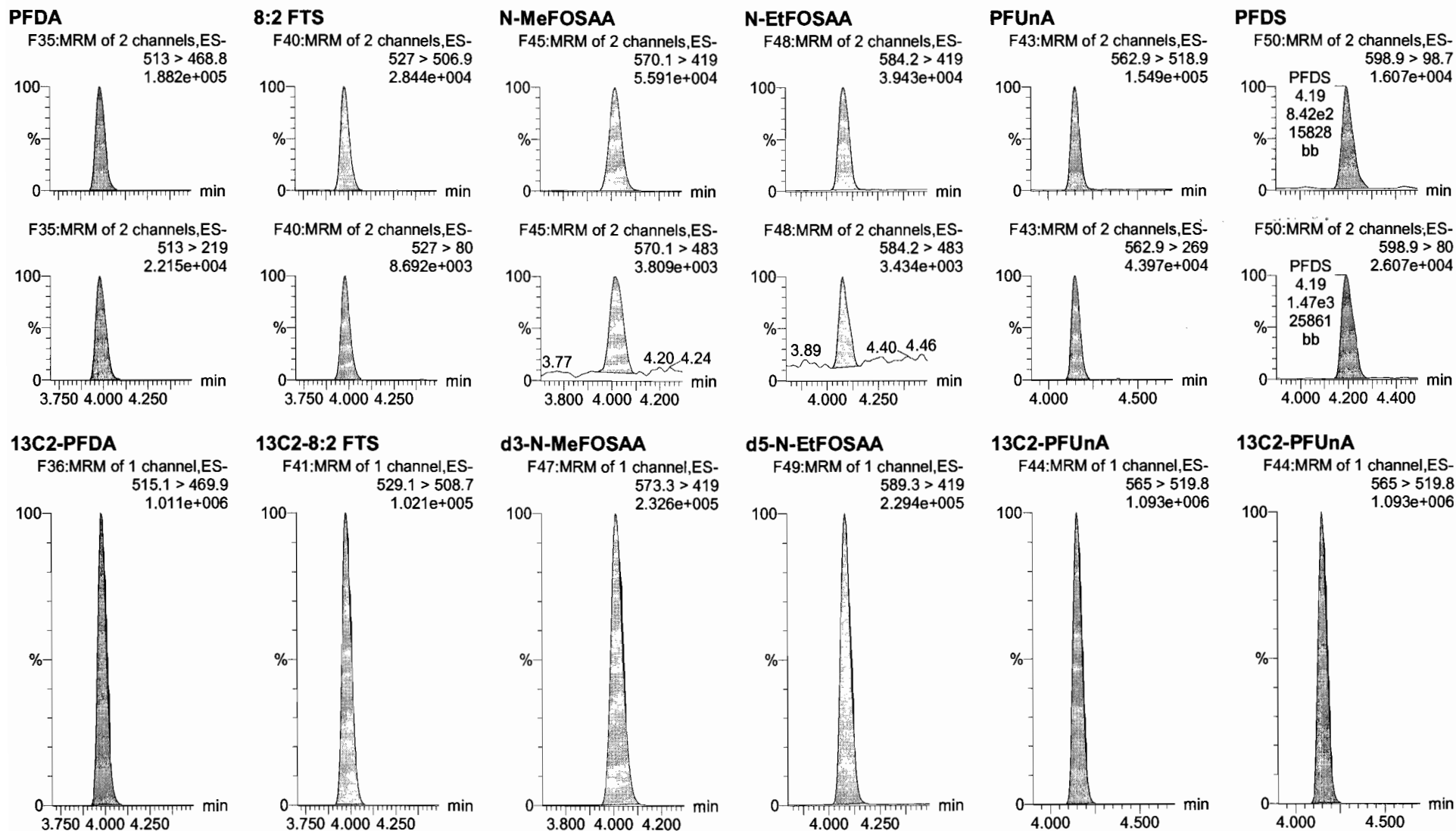


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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

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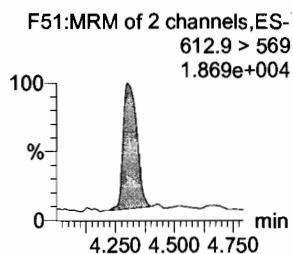
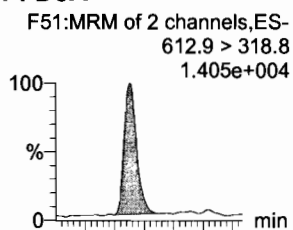
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

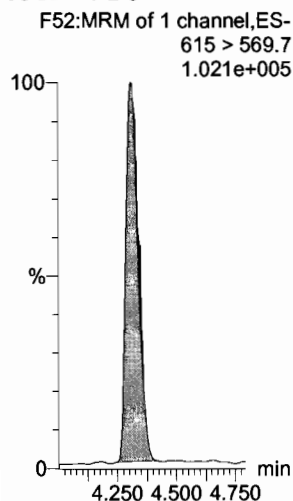
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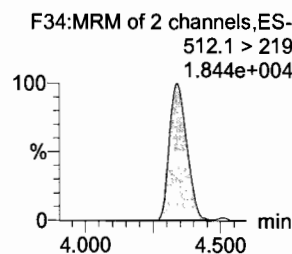
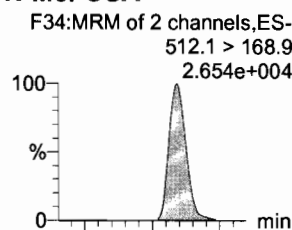
PFDaA



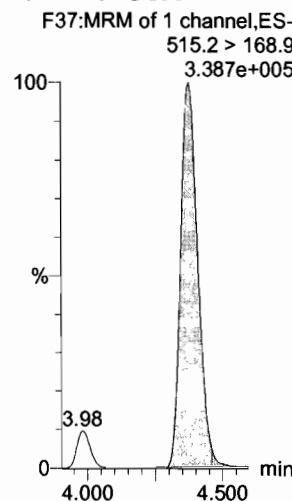
13C2-PFDaA



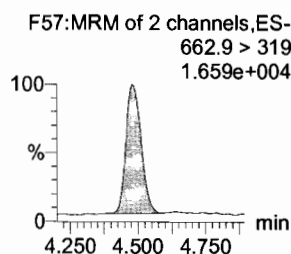
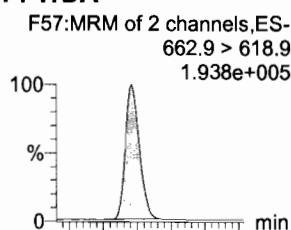
N-MeFOSA



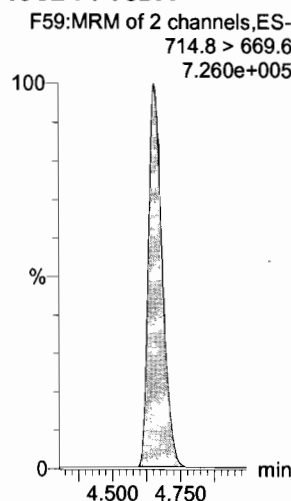
d3-N-MeFOSA



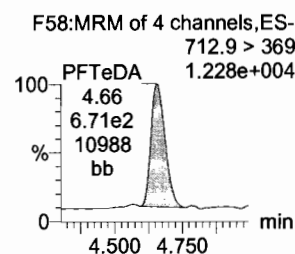
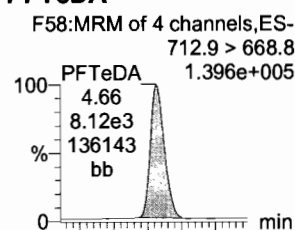
PFTrDA



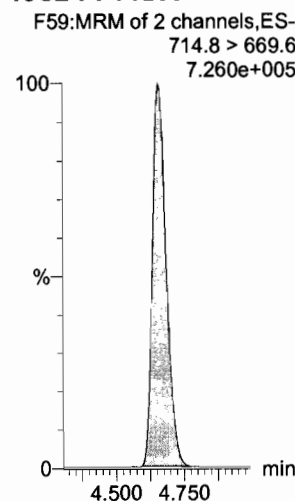
13C2-PFTeDA



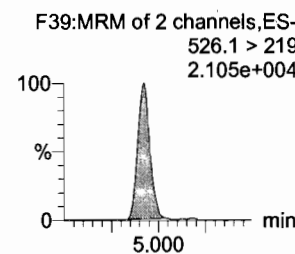
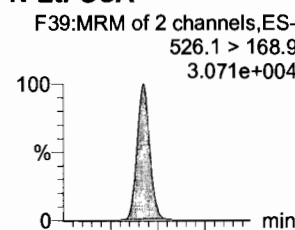
PFTeDA



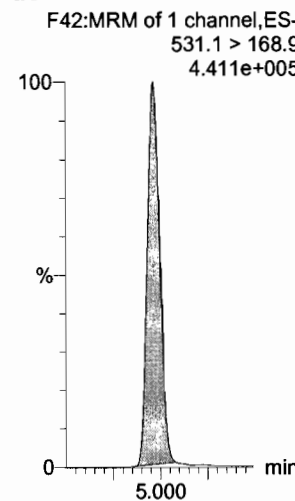
13C2-PFTeDA



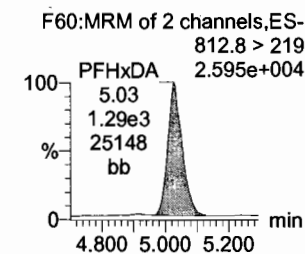
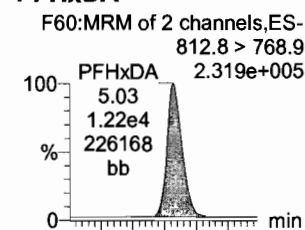
N-EtFOSA



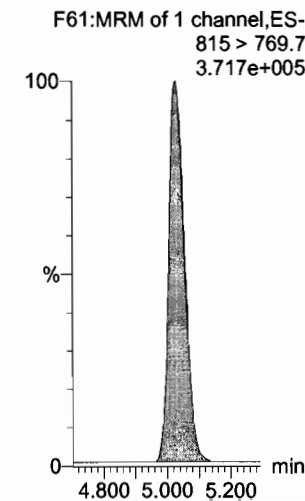
d5-N-ETFOSA



PFHxDA



13C2-PFHxDA

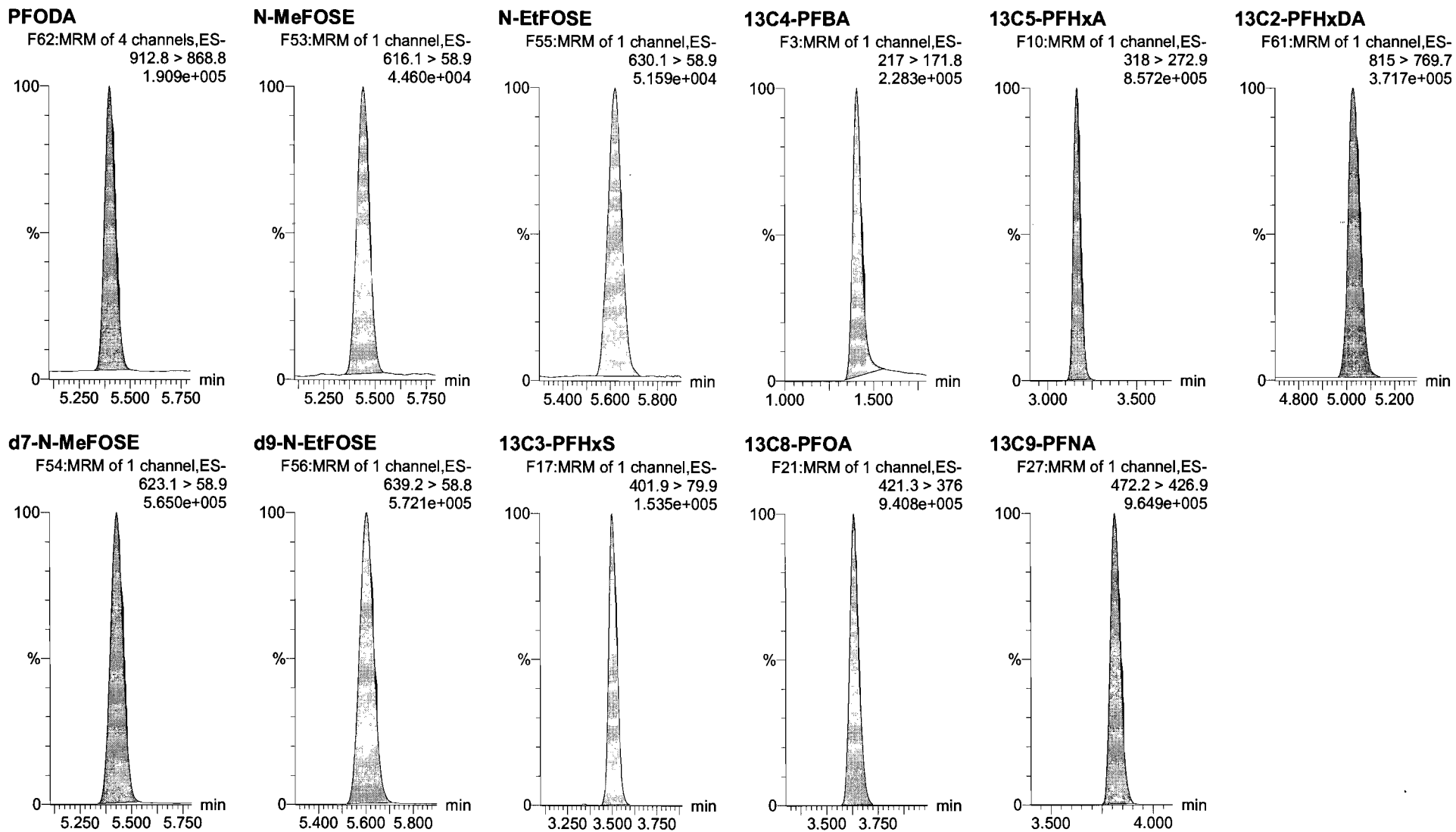


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Name: 170731M2_5, Date: 01-Aug-2017, Time: 01:12:05, ID: ST170731M2-4 PFC CS1 17G3110, Description: PFC CS1 17G3110



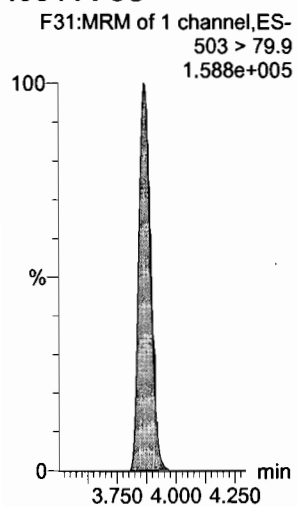
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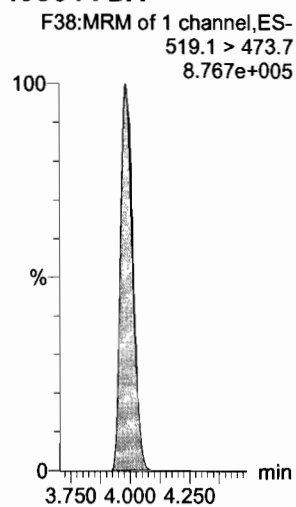
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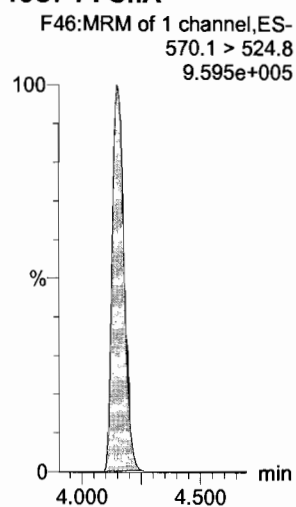
13C4-PFOS



13C6-PFDA



13C7-PFUnA

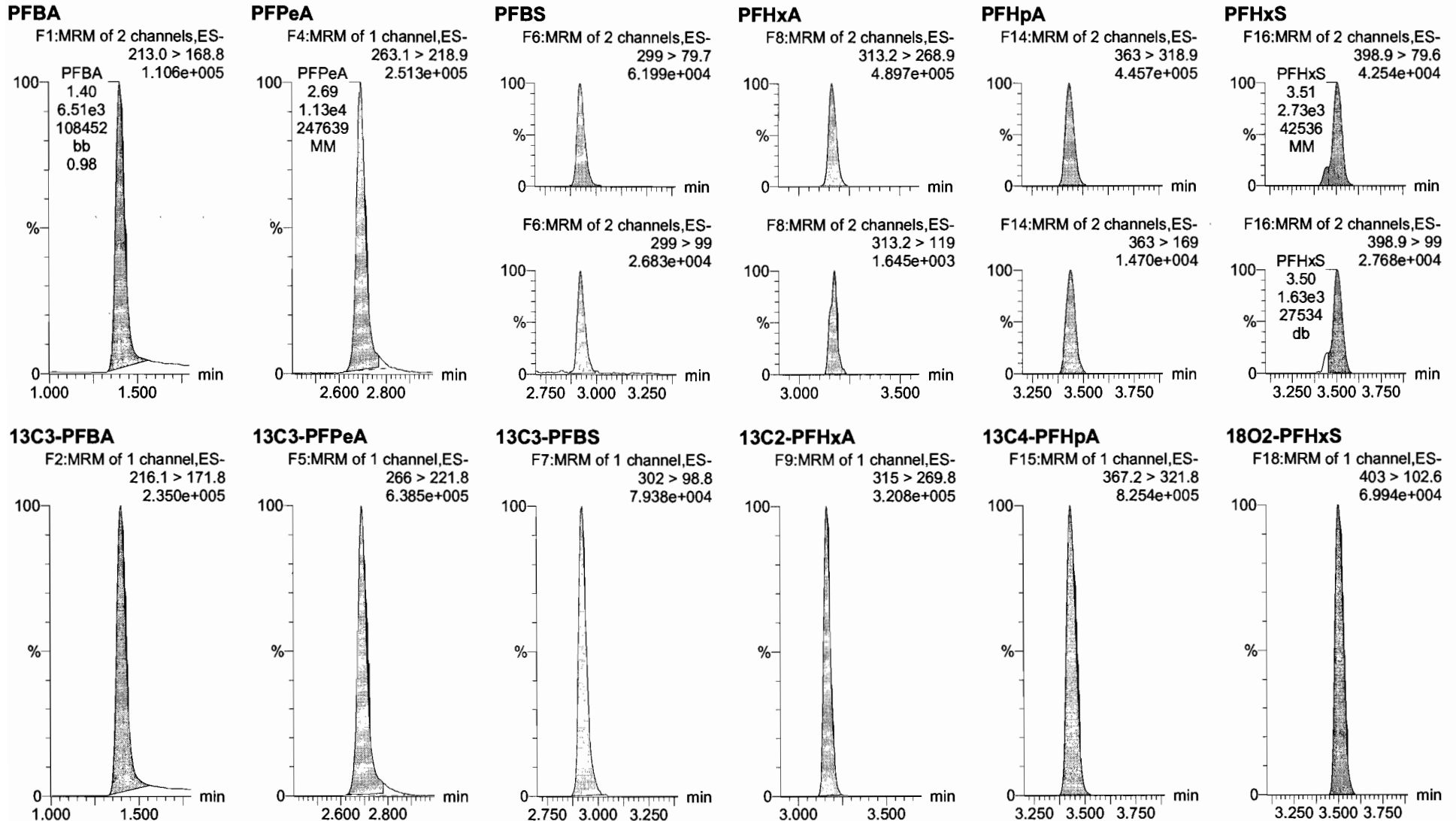


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Name: 170731M2_6, Date: 01-Aug-2017, Time: 01:22:43, ID: ST170731M2-5 PFC CS2 17G3111, Description: PFC CS2 17G3111



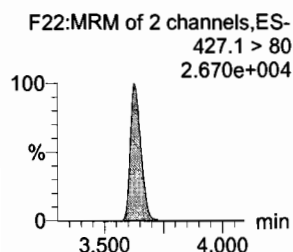
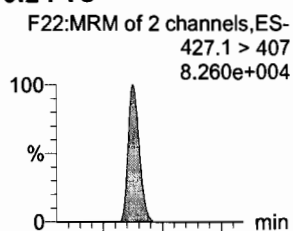
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

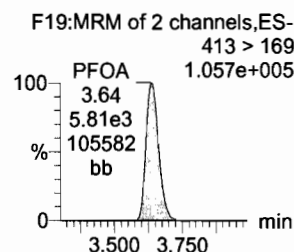
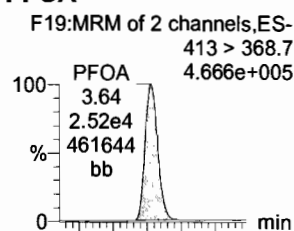
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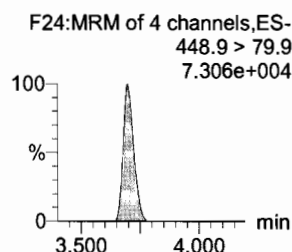
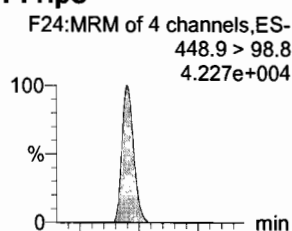
6:2 FTS



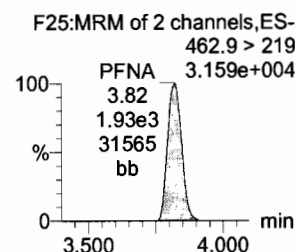
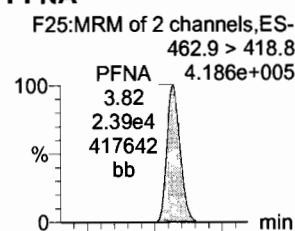
PFOA



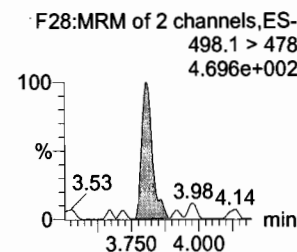
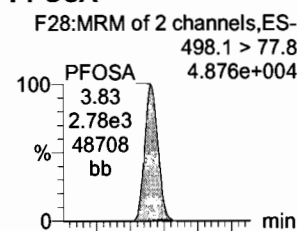
PFHpS



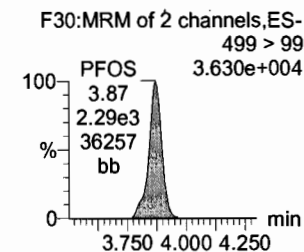
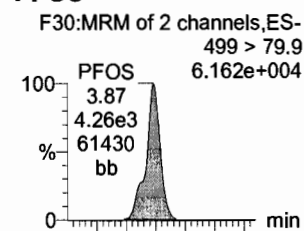
PFNA



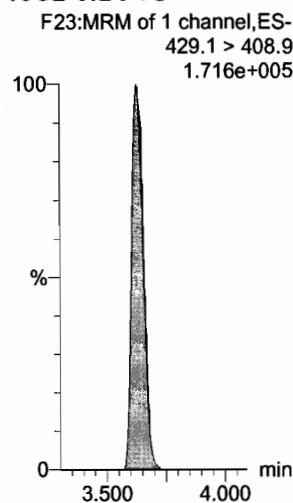
PFOSA



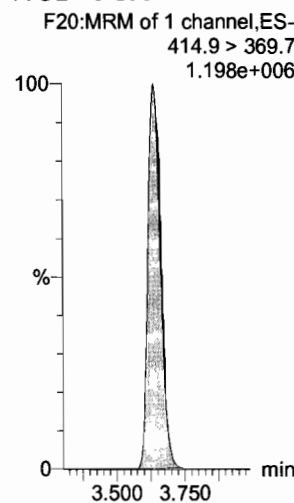
PFOS



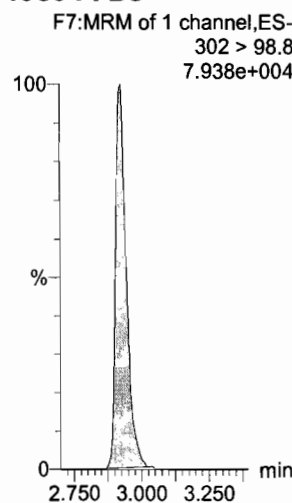
13C2-6:2 FTS



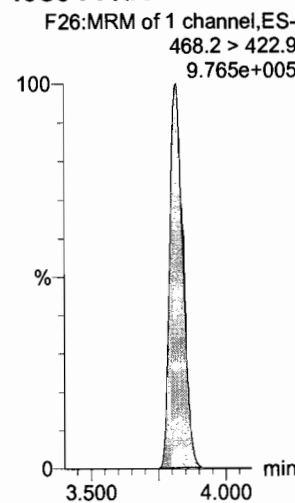
13C2-PFOA



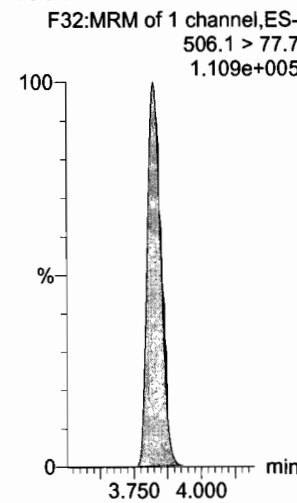
13C3-PFBS



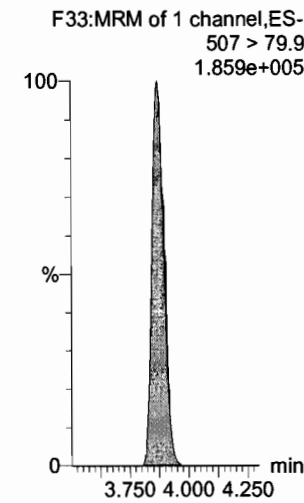
13C5-PFNA



13C8-PFOSA



13C8-PFOS



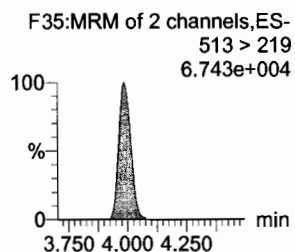
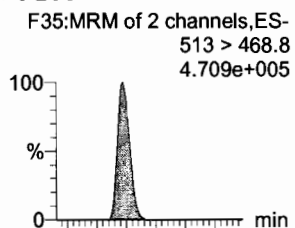
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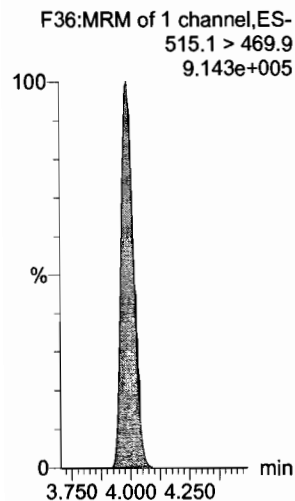
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Name: 170731M2_6, Date: 01-Aug-2017, Time: 01:22:43, ID: ST170731M2-5 PFC CS2 17G3111, Description: PFC CS2 17G3111

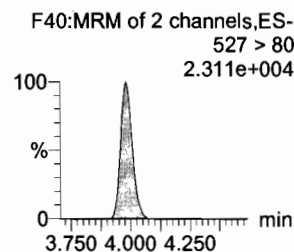
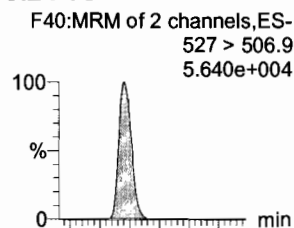
PFDA



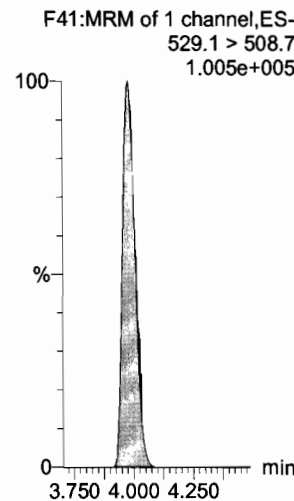
13C2-PFDA



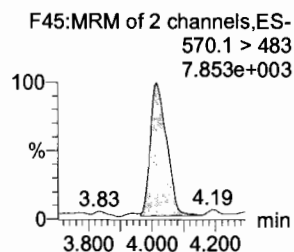
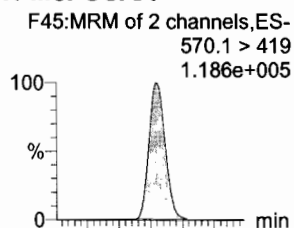
8:2 FTS



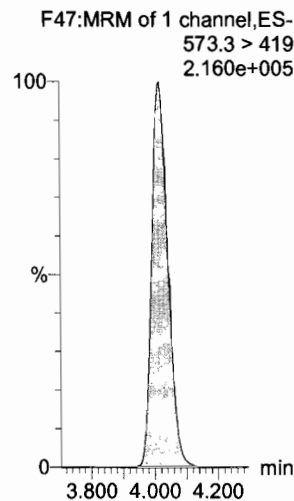
13C2-8:2 FTS



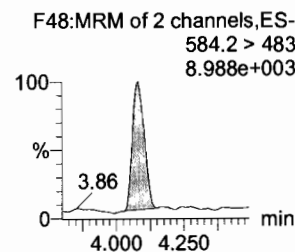
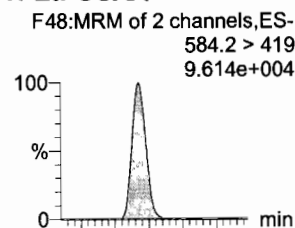
N-MeFOSAA



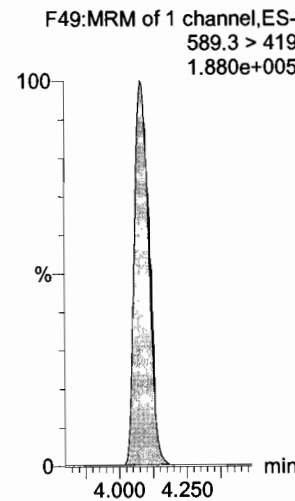
d3-N-MeFOSAA



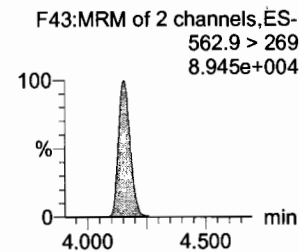
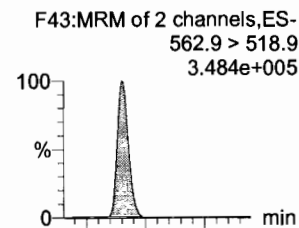
N-EtFOSAA



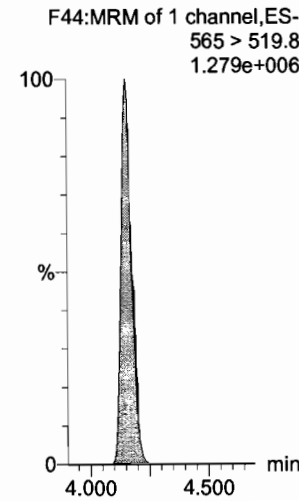
d5-N-EtFOSAA



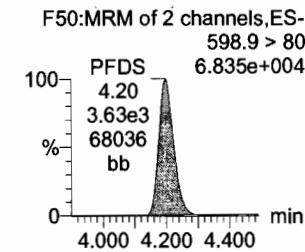
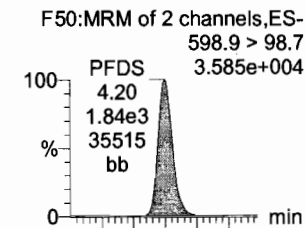
PFUnA



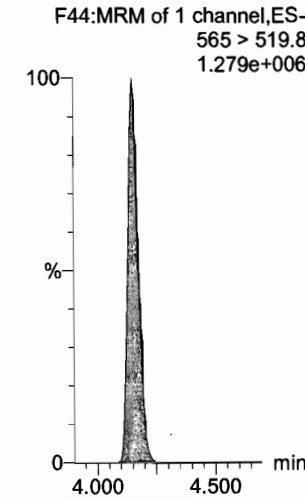
13C2-PFUnA



PFDS



13C2-PFUnA



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

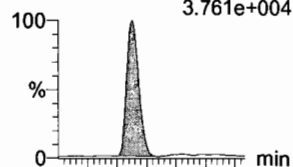
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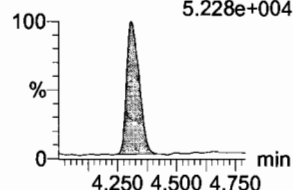
Name: 170731M2_6, Date: 01-Aug-2017, Time: 01:22:43, ID: ST170731M2-5 PFC CS2 17G3111, Description: PFC CS2 17G3111

PFDaA

F51:MRM of 2 channels,ES-
612.9 > 318.8
3.761e+004

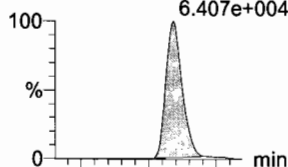


F51:MRM of 2 channels,ES-
612.9 > 569
5.228e+004

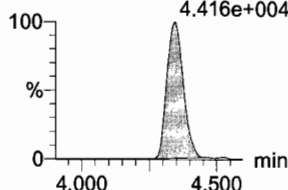


N-MeFOSA

F34:MRM of 2 channels,ES-
512.1 > 168.9
6.407e+004



F34:MRM of 2 channels,ES-
512.1 > 219
4.416e+004

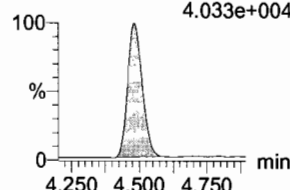


PFTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
4.233e+005

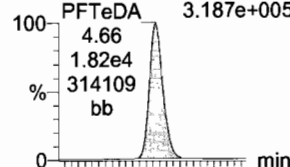


F57:MRM of 2 channels,ES-
662.9 > 319
4.033e+004

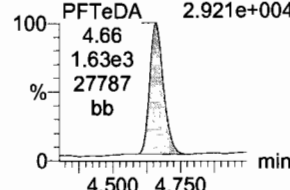


PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
3.187e+005

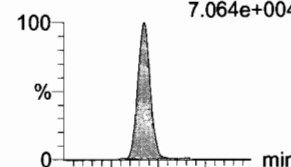


F58:MRM of 4 channels,ES-
712.9 > 369
2.921e+004

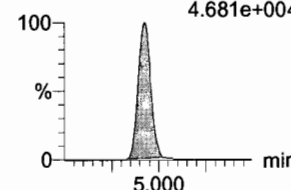


N-EtFOSA

F39:MRM of 2 channels,ES-
526.1 > 168.9
7.064e+004

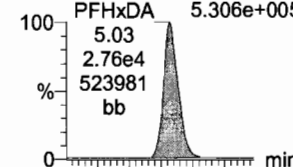


F39:MRM of 2 channels,ES-
526.1 > 219
4.681e+004

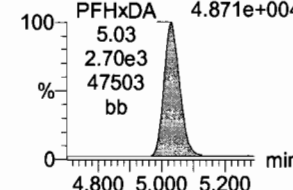


PFHxDA

F60:MRM of 2 channels,ES-
812.8 > 768.9
5.306e+005

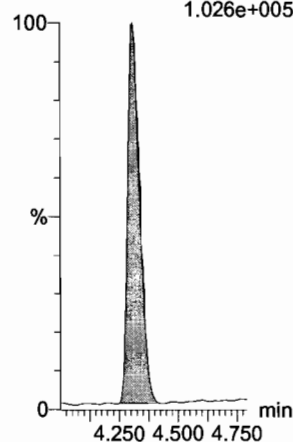


F60:MRM of 2 channels,ES-
812.8 > 219
4.871e+004



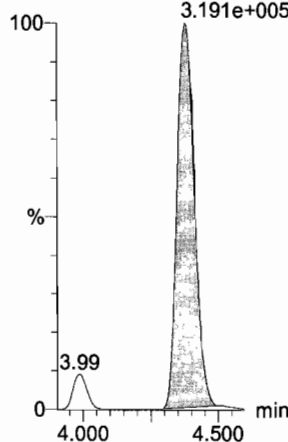
13C2-PFDaA

F52:MRM of 1 channel,ES-
615 > 569.7
1.026e+005



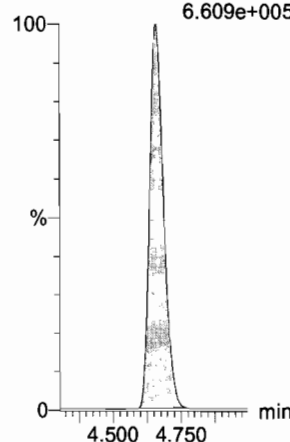
d3-N-MeFOSA

F37:MRM of 1 channel,ES-
515.2 > 168.9
3.191e+005



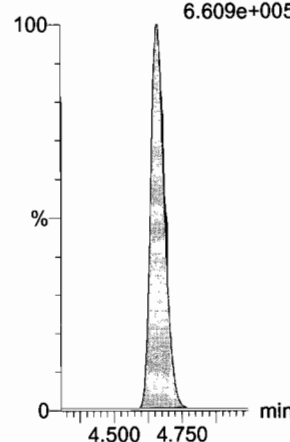
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
6.609e+005



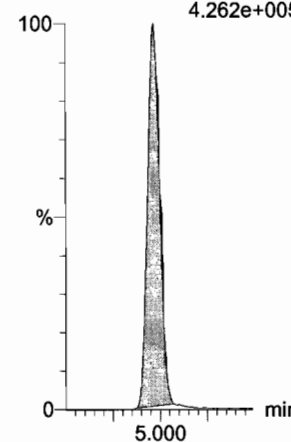
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
6.609e+005



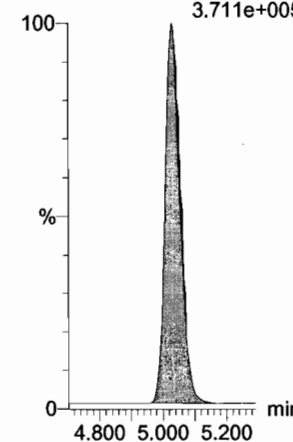
d5-N-ETFOSA

F42:MRM of 1 channel,ES-
531.1 > 168.9
4.262e+005



13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.711e+005



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

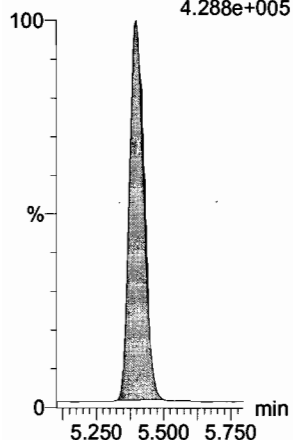
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Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_6, Date: 01-Aug-2017, Time: 01:22:43, ID: ST170731M2-5 PFC CS2 17G3111, Description: PFC CS2 17G3111

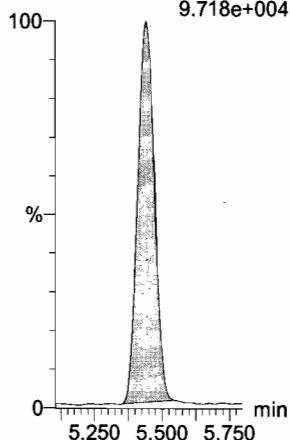
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
4.288e+005



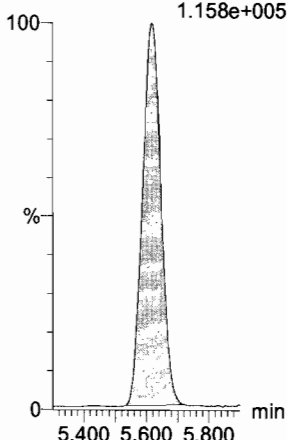
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
9.718e+004



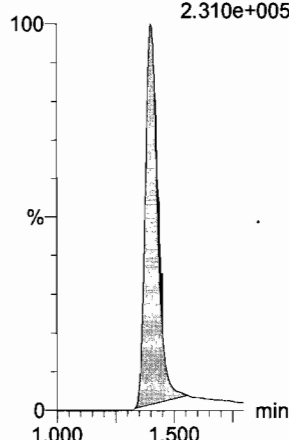
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
1.158e+005



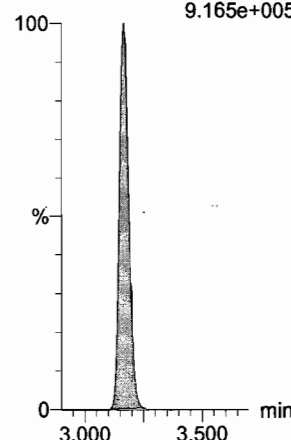
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
2.310e+005



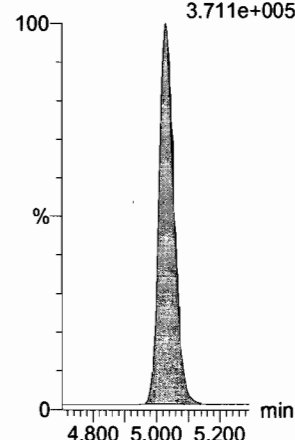
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
9.165e+005



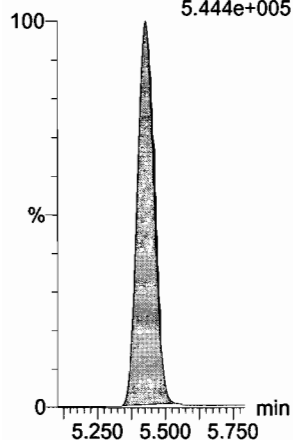
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.711e+005



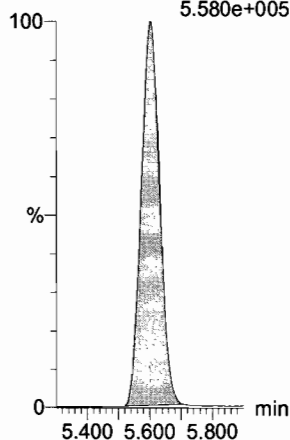
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.444e+005



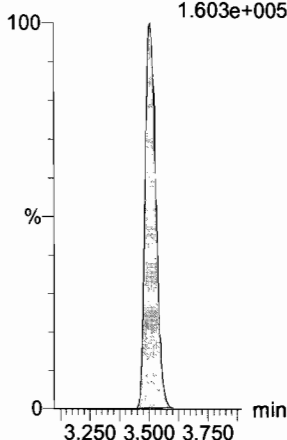
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.580e+005



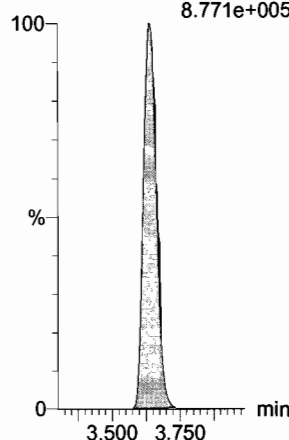
13C3-PFHxA

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.603e+005



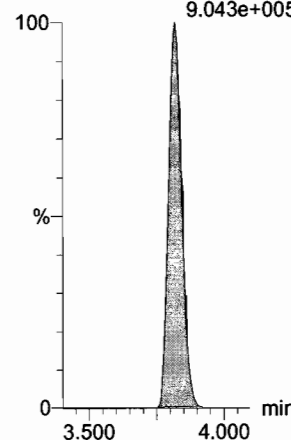
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
8.771e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
9.043e+005



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

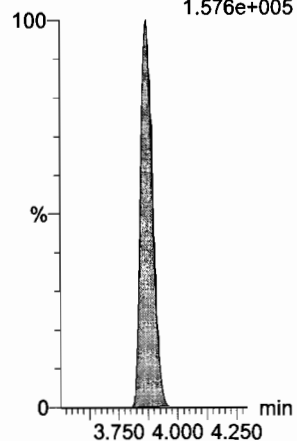
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Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_6, Date: 01-Aug-2017, Time: 01:22:43, ID: ST170731M2-5 PFC CS2 17G3111, Description: PFC CS2 17G3111

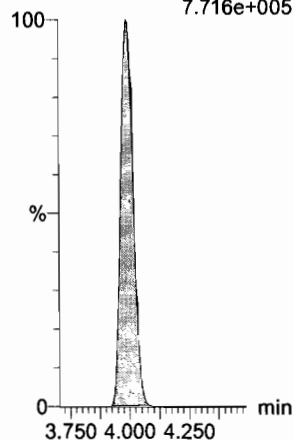
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.576e+005



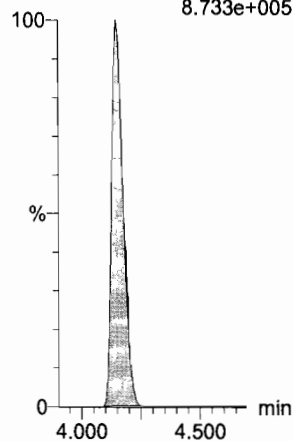
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
7.716e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
8.733e+005



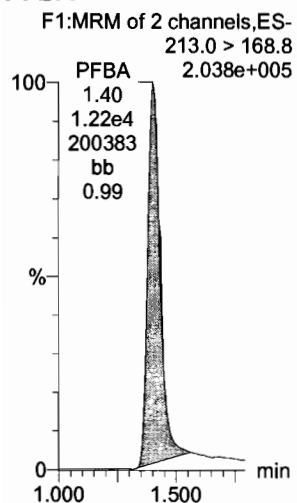
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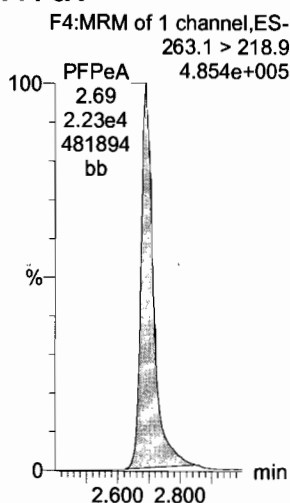
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Name: 170731M2_7, Date: 01-Aug-2017, Time: 01:33:30, ID: ST170731M2-6 PFC CS3 17G3105, Description: PFC CS3 17G3105

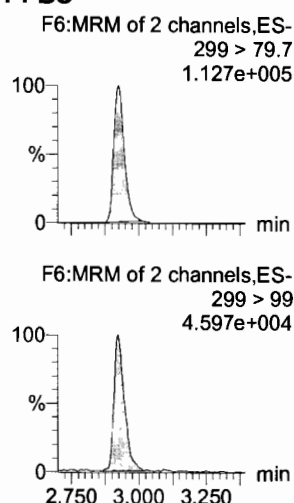
PFBA



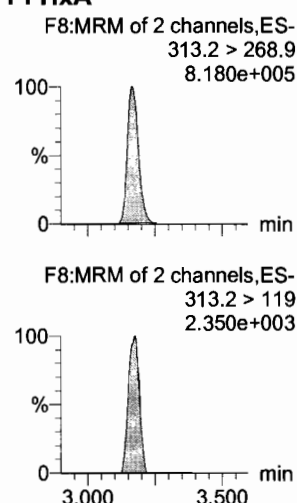
PFPeA



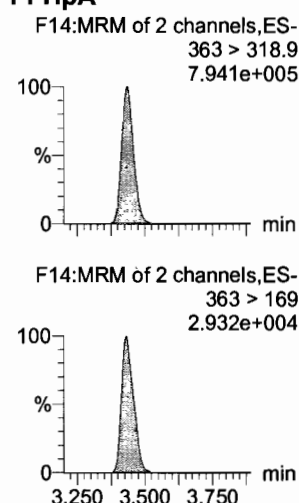
PFBS



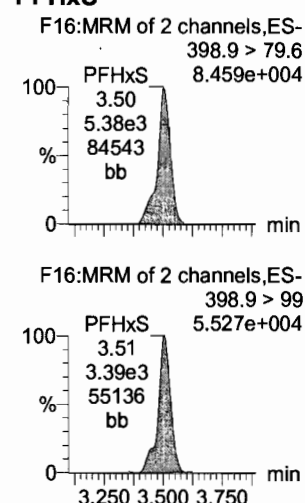
PFHxA



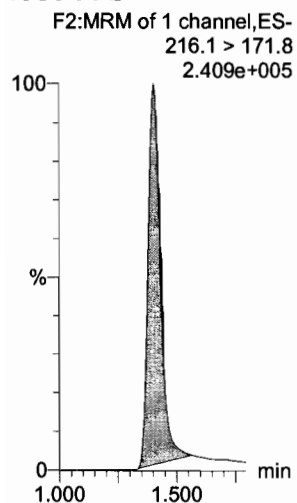
PFHpA



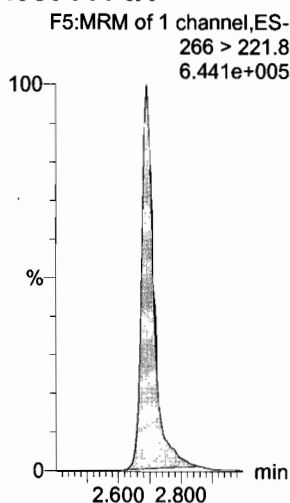
PFHxS



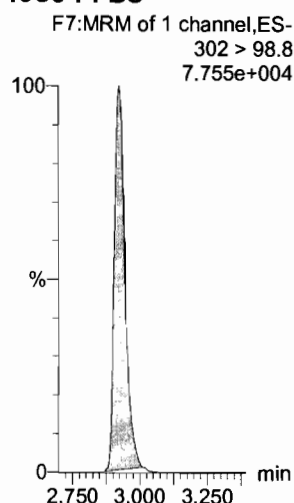
13C3-PFBA



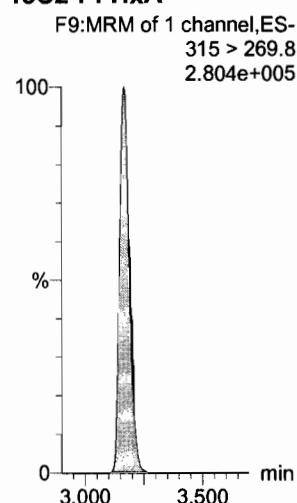
13C3-PFPeA



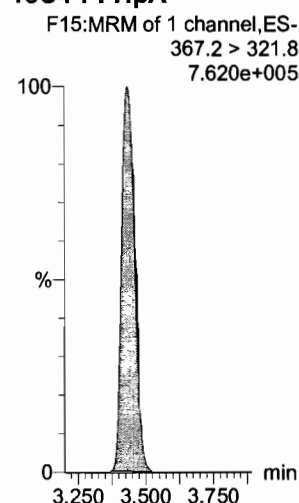
13C3-PFBS



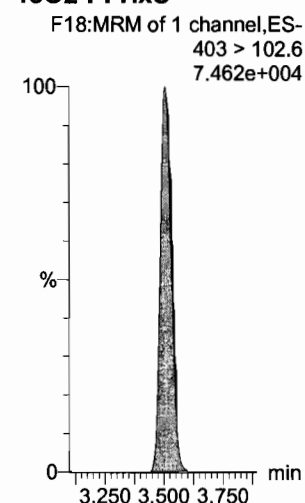
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



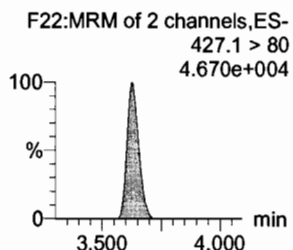
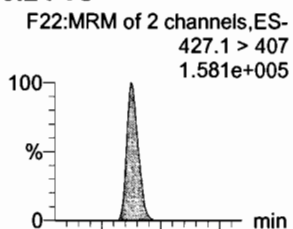
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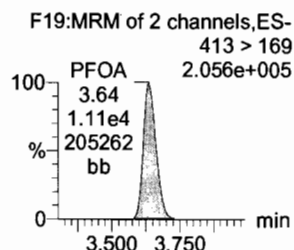
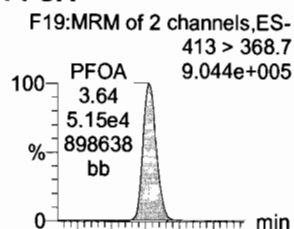
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Name: 170731M2_7, Date: 01-Aug-2017, Time: 01:33:30, ID: ST170731M2-6 PFC CS3 17G3105, Description: PFC CS3 17G3105

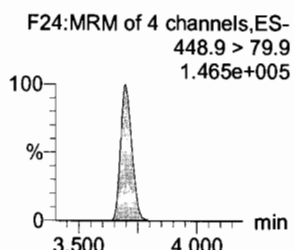
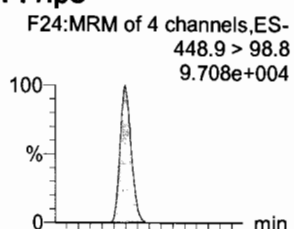
6:2 FTS



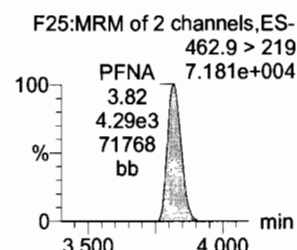
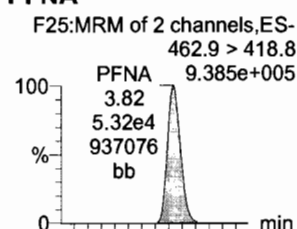
PFOA



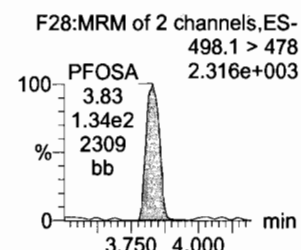
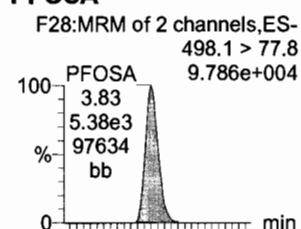
PFHpS



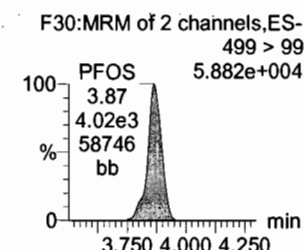
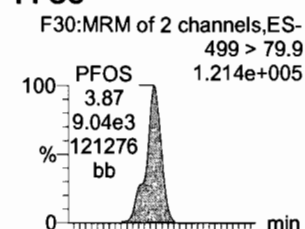
PFNA



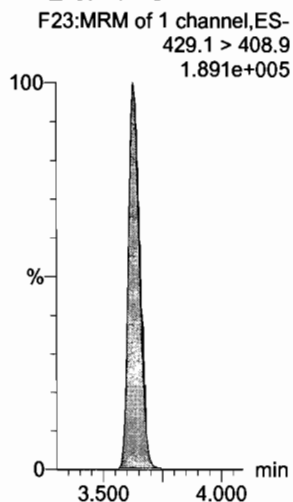
PFOSA



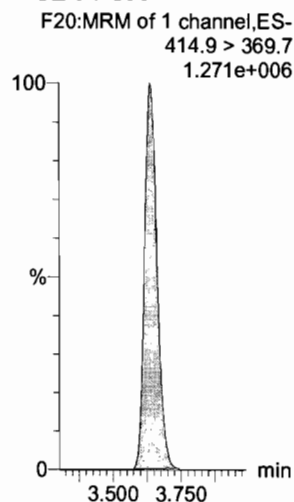
PFOS



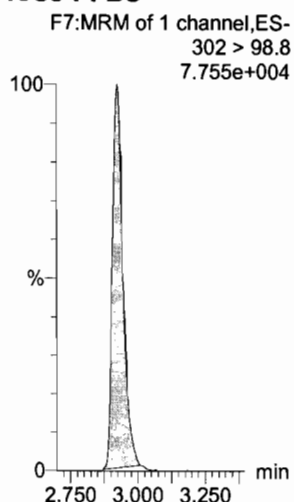
13C2-6:2 FTS



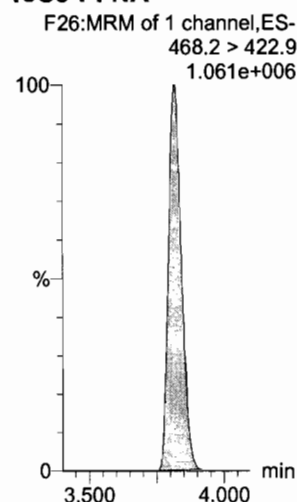
13C2-PFOA



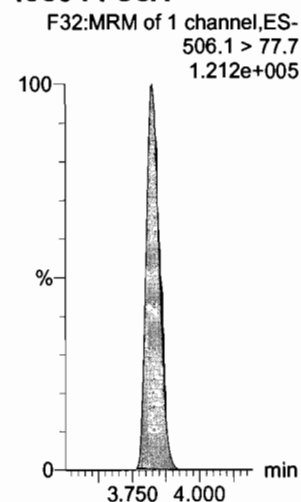
13C3-PFBS



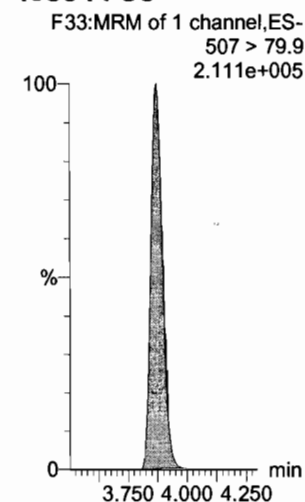
13C5-PFNA



13C8-PFOSA



13C8-PFOS



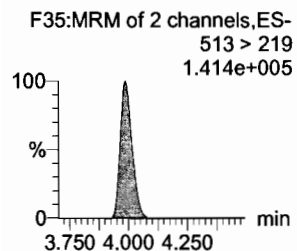
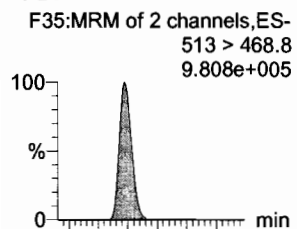
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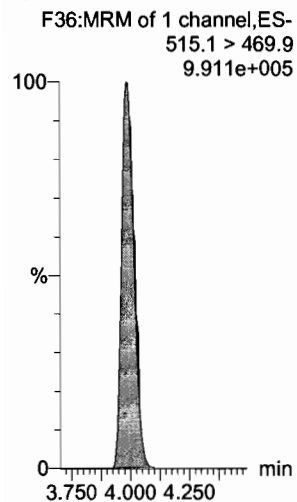
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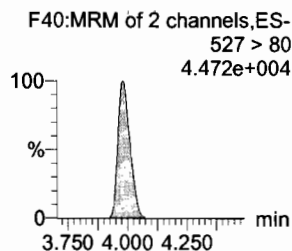
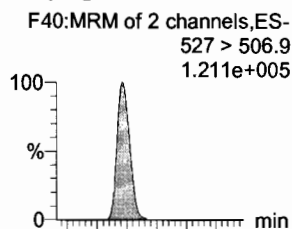
PFDA



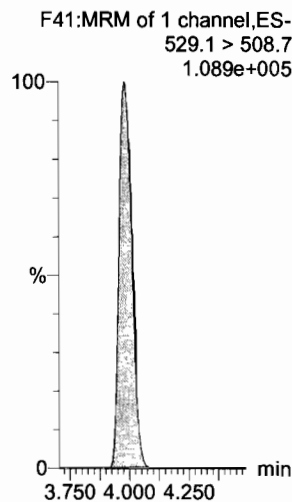
13C2-PFDA



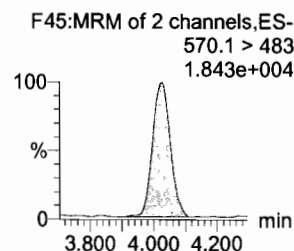
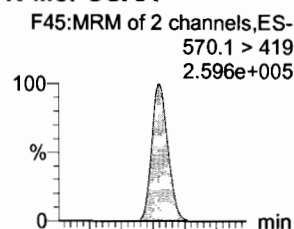
8:2 FTS



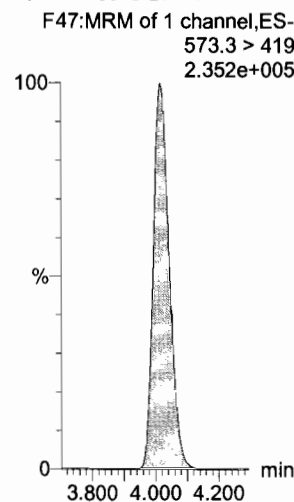
13C2-8:2 FTS



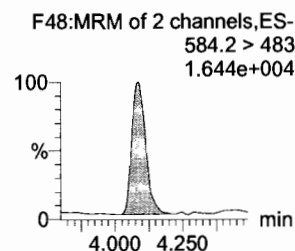
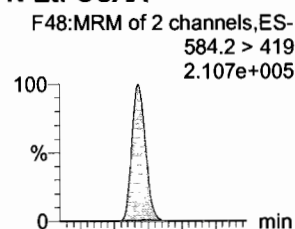
N-MeFOSAA



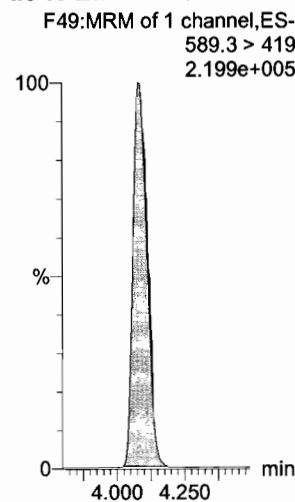
d3-N-MeFOSAA



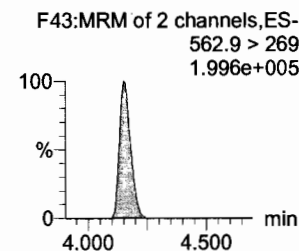
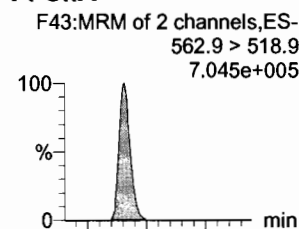
N-EtFOSAA



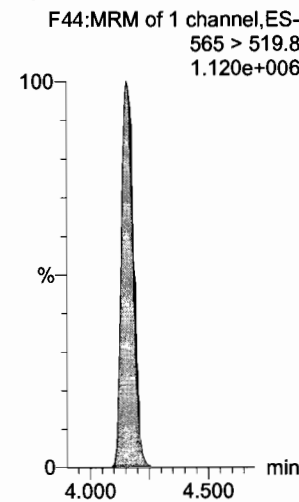
d5-N-EtFOSAA



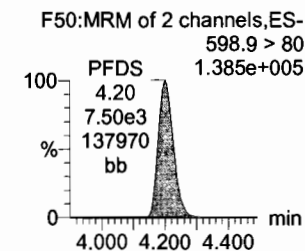
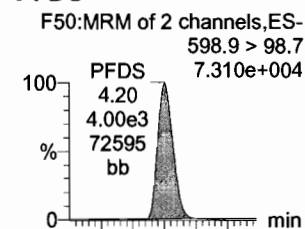
PFUnA



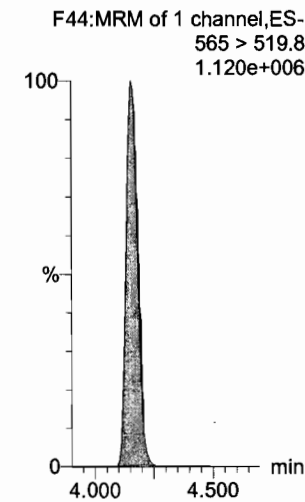
13C2-PFUnA



PFDS



13C2-PFUnA



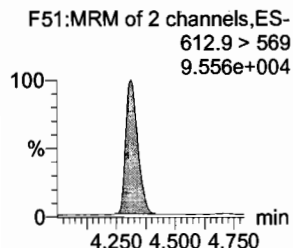
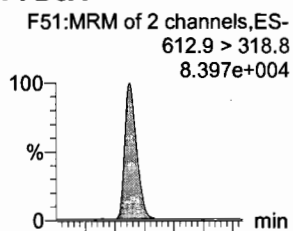
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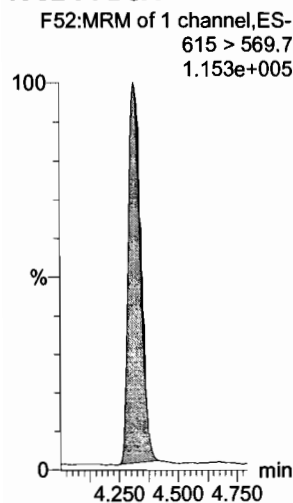
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Name: 170731M2_7, Date: 01-Aug-2017, Time: 01:33:30, ID: ST170731M2-6 PFC CS3 17G3105, Description: PFC CS3 17G3105

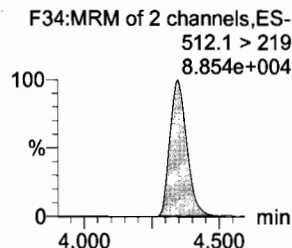
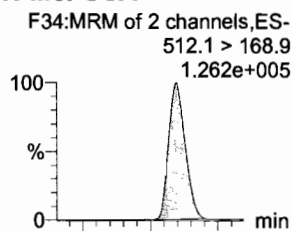
PFD_oA



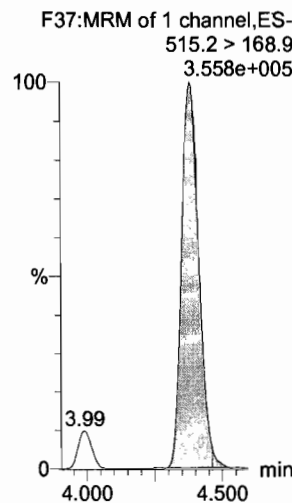
13C2-PFD_oA



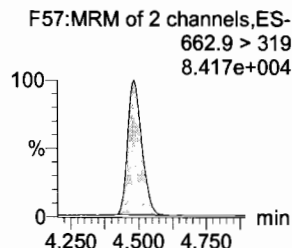
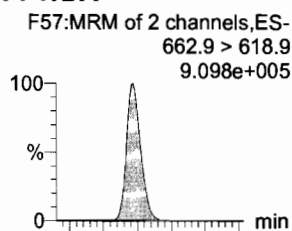
N-MeFOSA



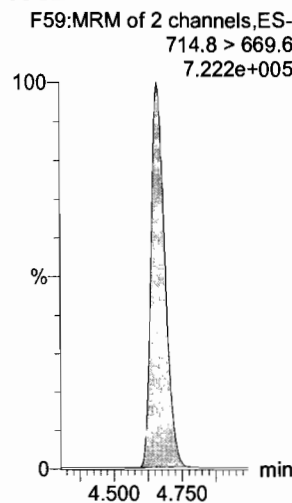
d3-N-MeFOSA



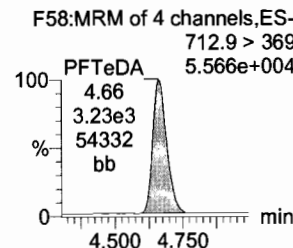
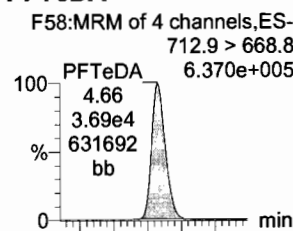
PFT_rDA



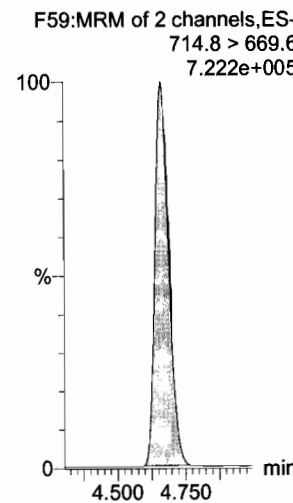
13C2-PFT_rDA



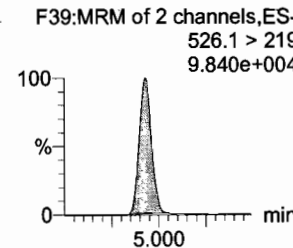
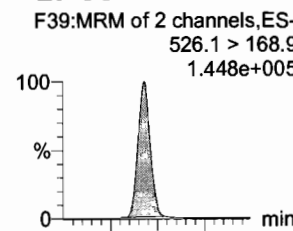
PFT_eDA



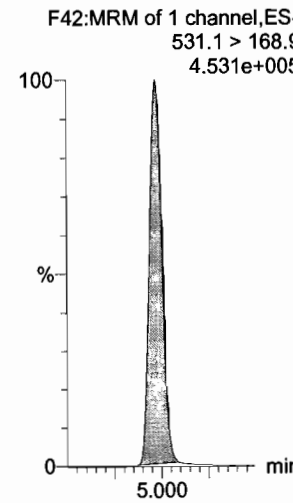
13C2-PFT_eDA



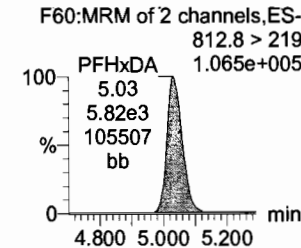
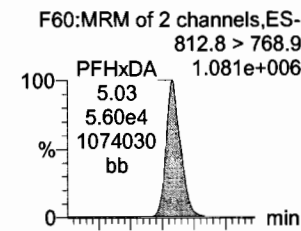
N-EtFOSA



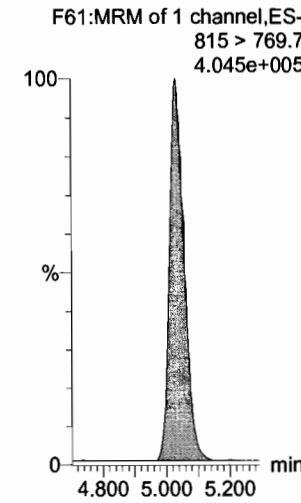
d5-N-ETFOSA



PFH_xDA



13C2-PFH_xDA



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

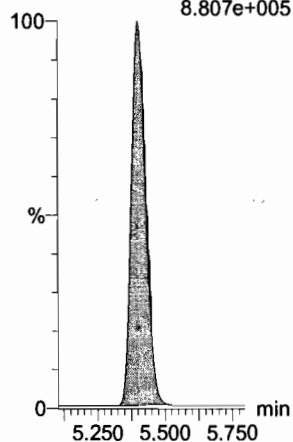
Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_7, Date: 01-Aug-2017, Time: 01:33:30, ID: ST170731M2-6 PFC CS3 17G3105, Description: PFC CS3 17G3105

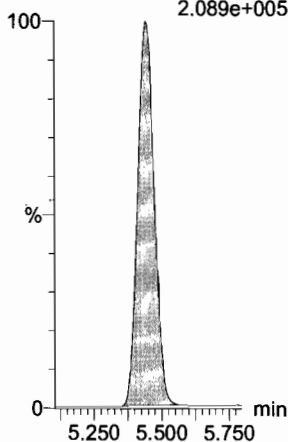
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
8.807e+005



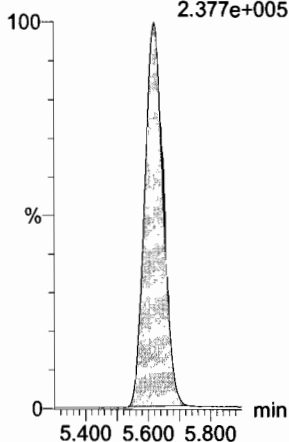
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
2.089e+005



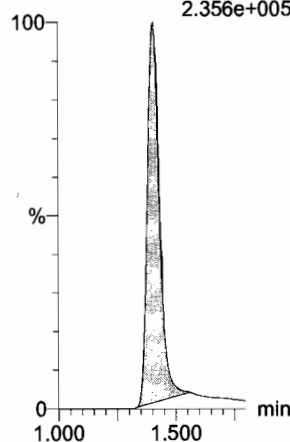
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
2.377e+005



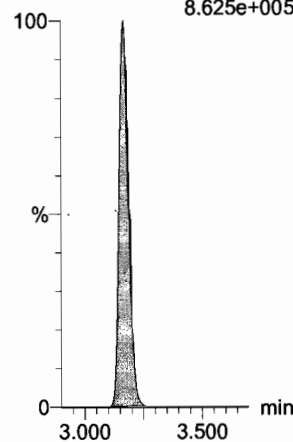
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
2.356e+005



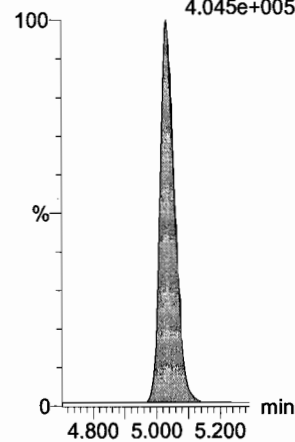
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.625e+005



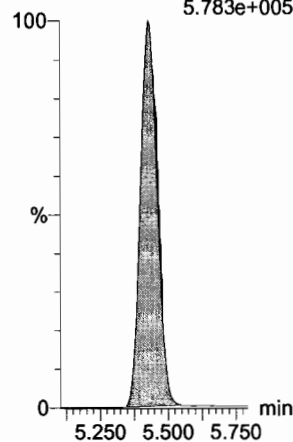
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
4.045e+005



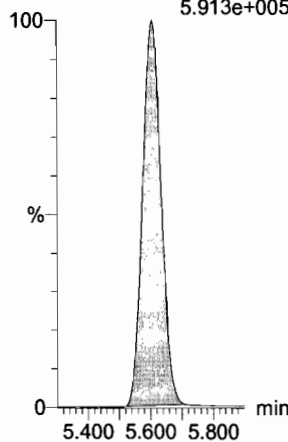
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.783e+005



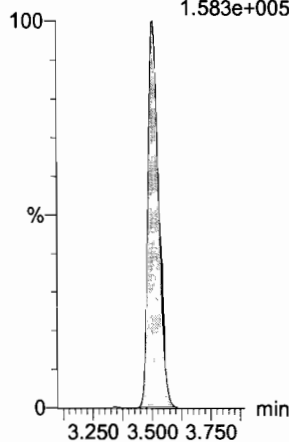
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.913e+005



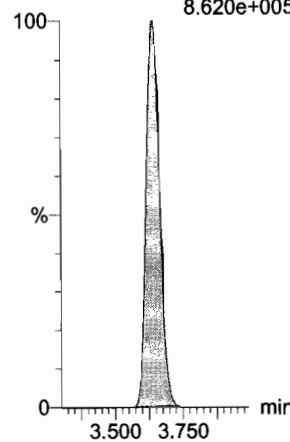
13C3-PFHxA

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.583e+005



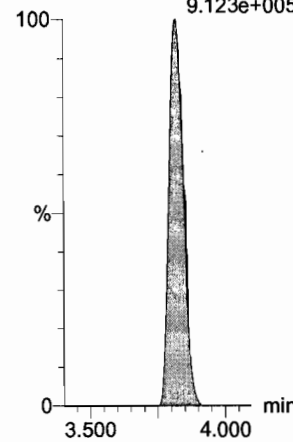
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
8.620e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
9.123e+005



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

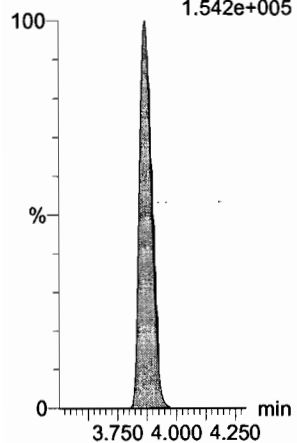
Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_7, Date: 01-Aug-2017, Time: 01:33:30, ID: ST170731M2-6 PFC CS3 17G3105, Description: PFC CS3 17G3105

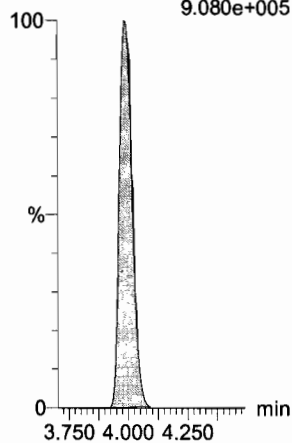
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.542e+005



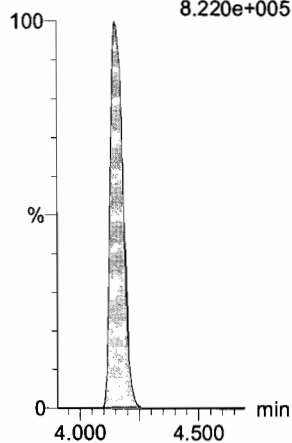
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
9.080e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
8.220e+005

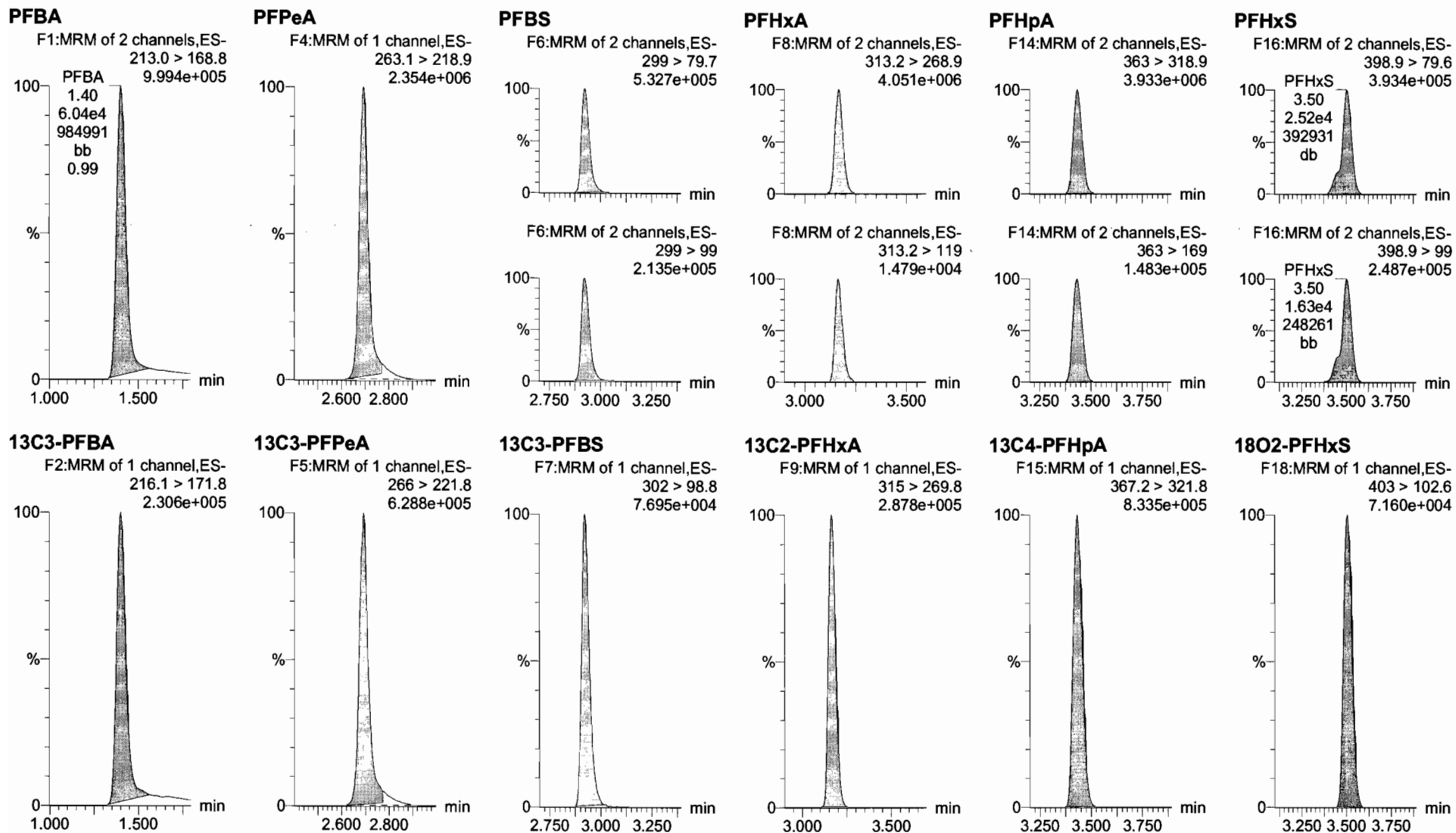


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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_8, Date: 01-Aug-2017, Time: 01:44:08, ID: ST170731M2-7 PFC CS4 17G3112, Description: PFC CS4 17G3112

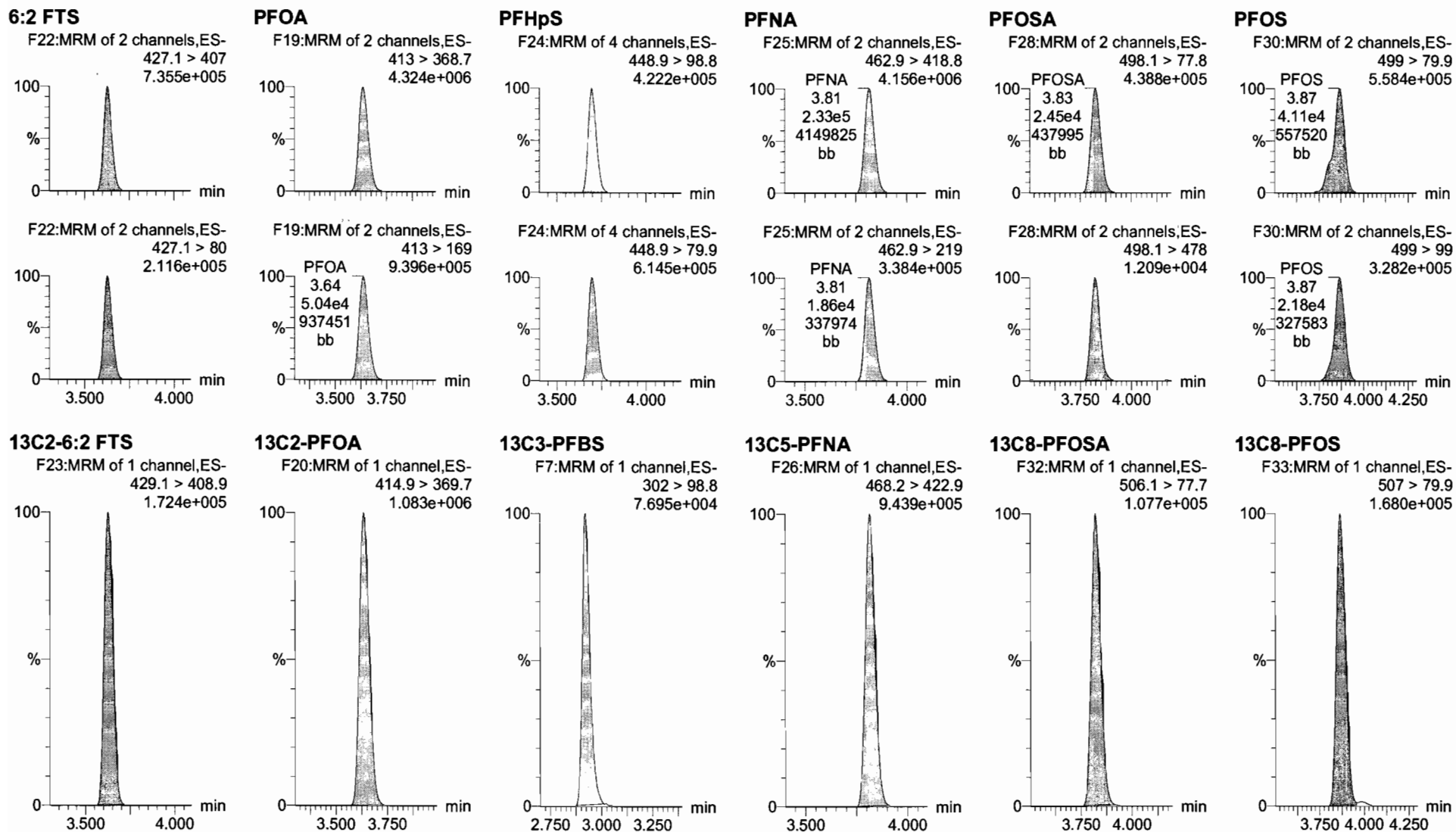


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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_8, Date: 01-Aug-2017, Time: 01:44:08, ID: ST170731M2-7 PFC CS4 17G3112, Description: PFC CS4 17G3112



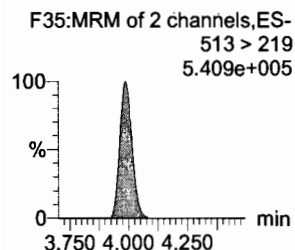
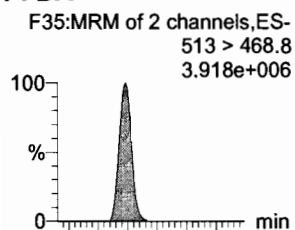
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

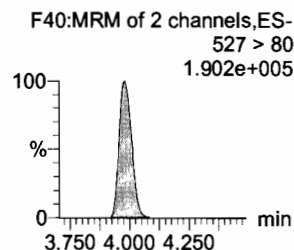
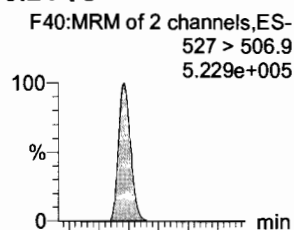
Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_8, Date: 01-Aug-2017, Time: 01:44:08, ID: ST170731M2-7 PFC CS4 17G3112, Description: PFC CS4 17G3112

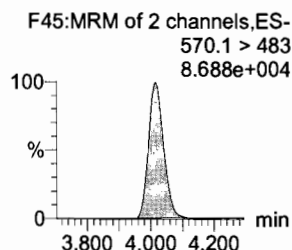
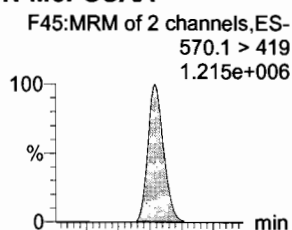
PFDA



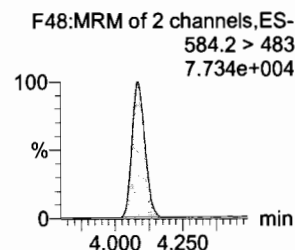
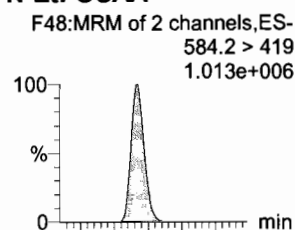
8:2 FTS



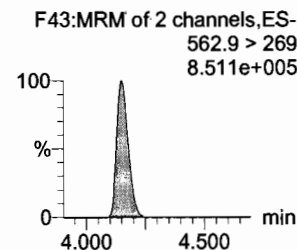
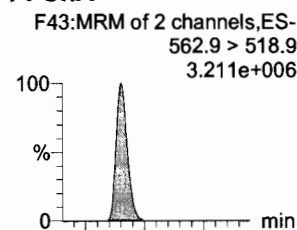
N-MeFOSAA



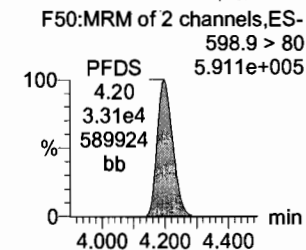
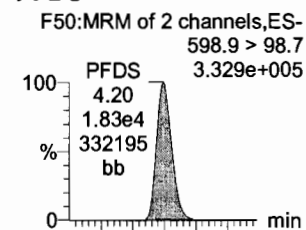
N-EtFOSAA



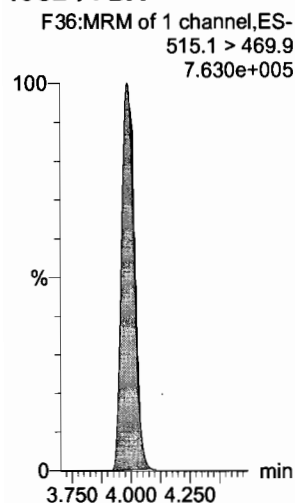
PFUnA



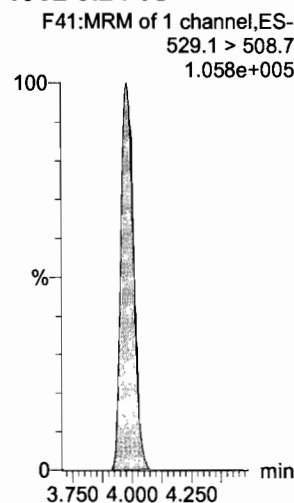
PFDS



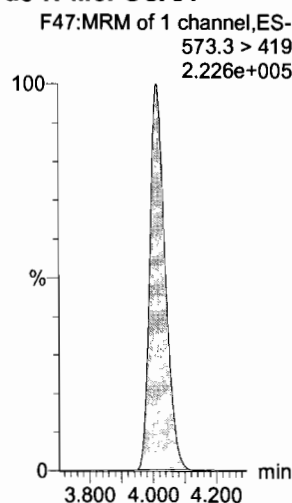
13C2-PFDA



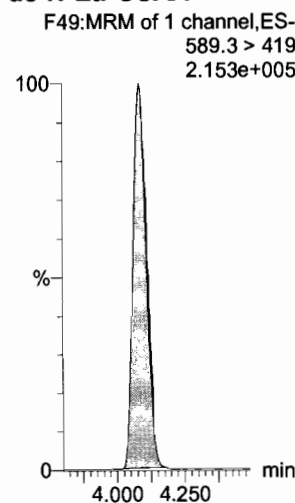
13C2-8:2 FTS



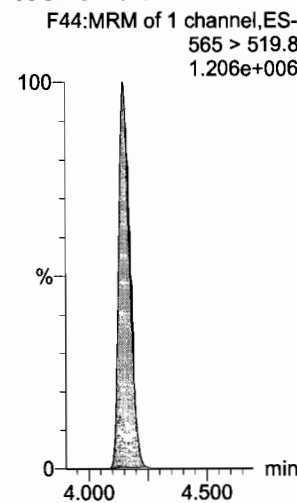
d3-N-MeFOSAA



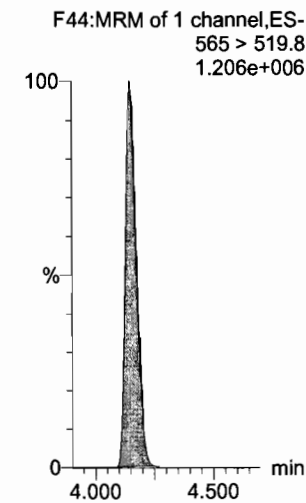
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

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Name: 170731M2_8, Date: 01-Aug-2017, Time: 01:44:08, ID: ST170731M2-7 PFC CS4 17G3112, Description: PFC CS4 17G3112

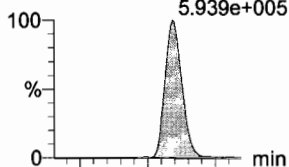
PFDaA

F51:MRM of 2 channels,ES-
612.9 > 318.8
3.659e+005



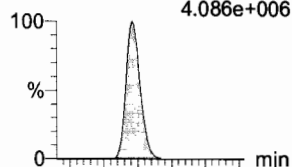
N-MeFOSA

F34:MRM of 2 channels,ES-
512.1 > 168.9
5.939e+005



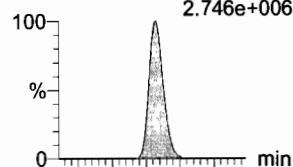
PFTrDA

F57:MRM of 2 channels,ES-
662.9 > 618.9
4.086e+006



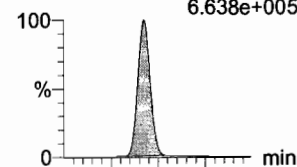
PFTeDA

F58:MRM of 4 channels,ES-
712.9 > 668.8
2.746e+006



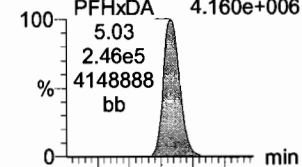
N-EtFOSA

F39:MRM of 2 channels,ES-
526.1 > 168.9
6.638e+005

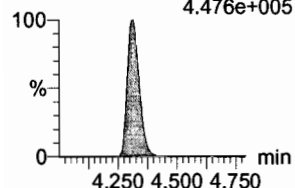


PFHxDA

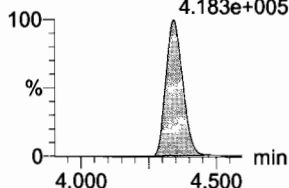
F60:MRM of 2 channels,ES-
812.8 > 768.9
4.160e+006



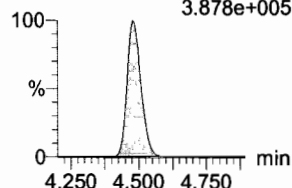
F51:MRM of 2 channels,ES-
612.9 > 569
4.476e+005



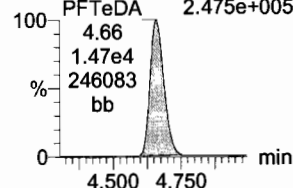
F34:MRM of 2 channels,ES-
512.1 > 219
4.183e+005



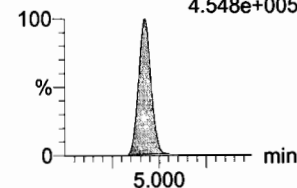
F57:MRM of 2 channels,ES-
662.9 > 319
3.878e+005



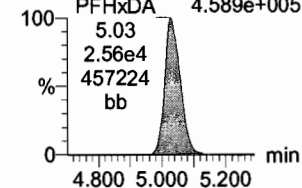
F58:MRM of 4 channels,ES-
712.9 > 369
2.475e+005



F39:MRM of 2 channels,ES-
526.1 > 219
4.548e+005

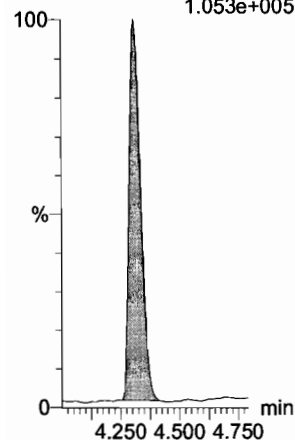


F60:MRM of 2 channels,ES-
812.8 > 219
4.589e+005



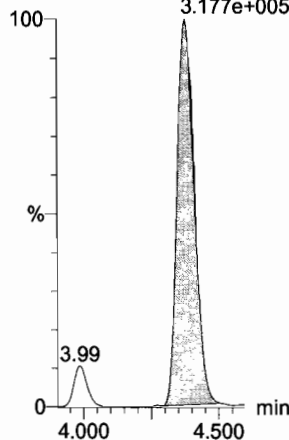
13C2-PFDaA

F52:MRM of 1 channel,ES-
615 > 569.7
1.053e+005



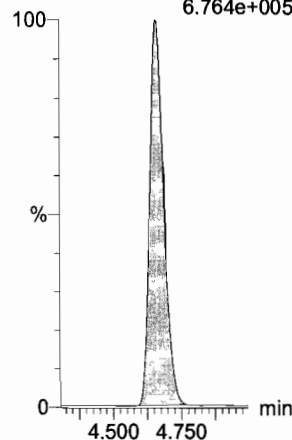
d3-N-MeFOSA

F37:MRM of 1 channel,ES-
515.2 > 168.9
3.177e+005



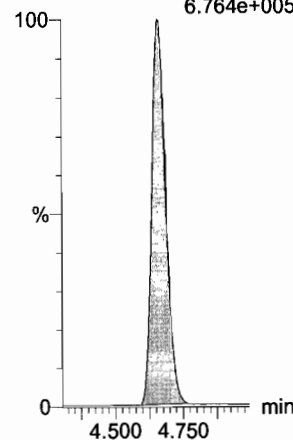
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
6.764e+005



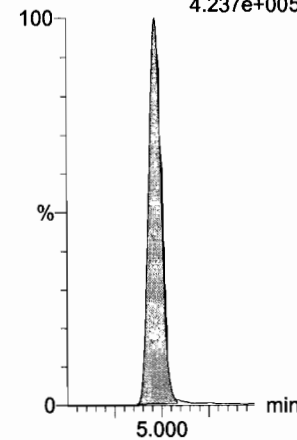
13C2-PFTeDA

F59:MRM of 2 channels,ES-
714.8 > 669.6
6.764e+005



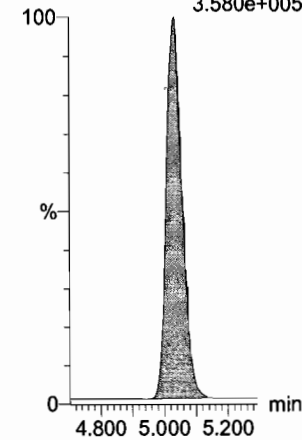
d5-N-ETFOSA

F42:MRM of 1 channel,ES-
531.1 > 168.9
4.237e+005



13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.580e+005



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

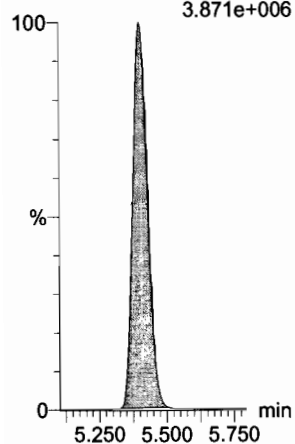
Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_8, Date: 01-Aug-2017, Time: 01:44:08, ID: ST170731M2-7 PFC CS4 17G3112, Description: PFC CS4 17G3112

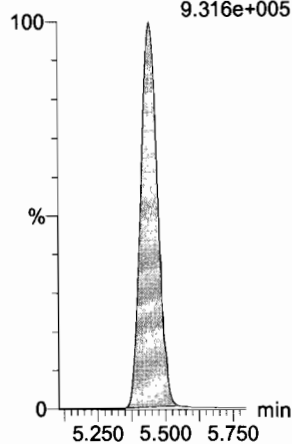
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
3.871e+006



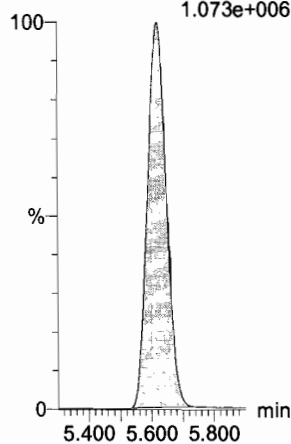
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
9.316e+005



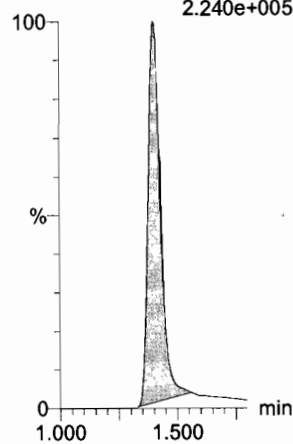
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
1.073e+006



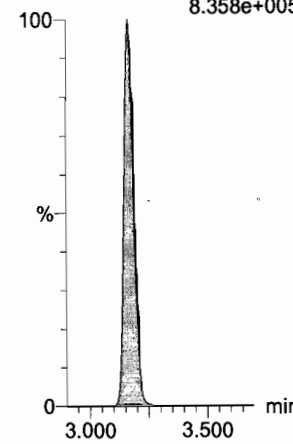
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
2.240e+005



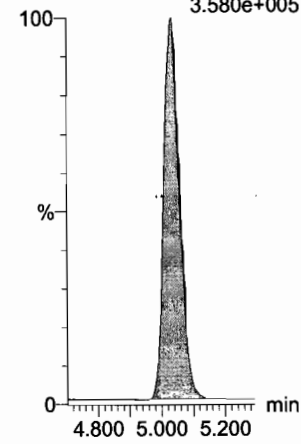
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.358e+005



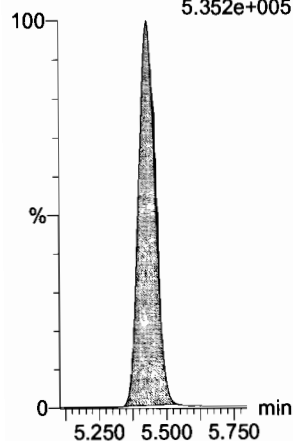
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.580e+005



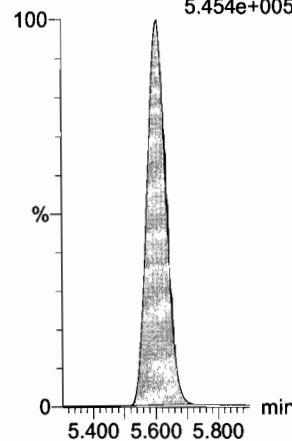
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.352e+005



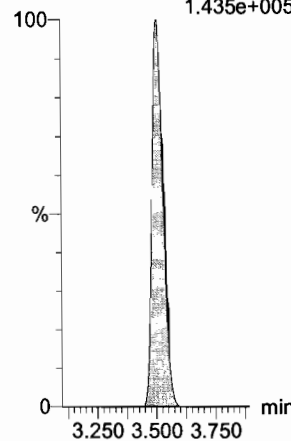
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.454e+005



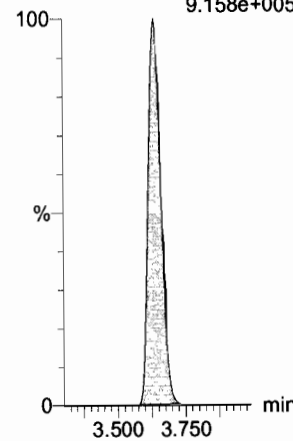
13C3-PFHxA

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.435e+005



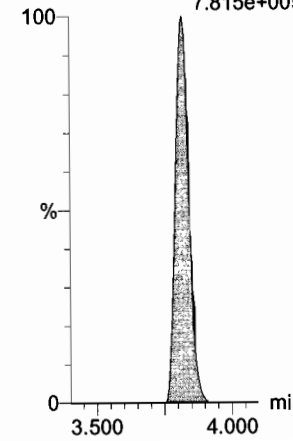
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
9.158e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
7.815e+005



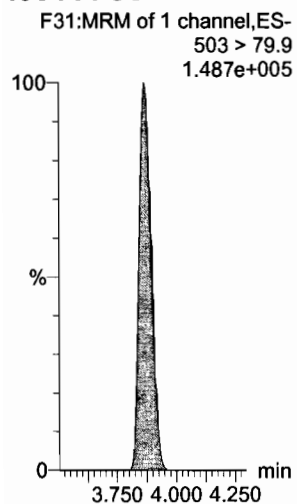
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

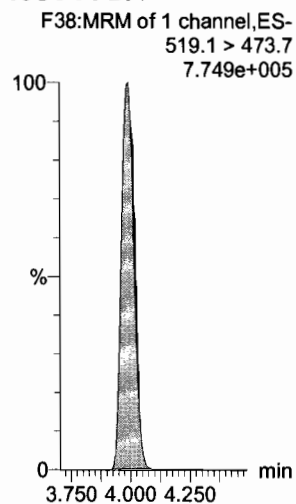
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Name: 170731M2_8, Date: 01-Aug-2017, Time: 01:44:08, ID: ST170731M2-7 PFC CS4 17G3112, Description: PFC CS4 17G3112

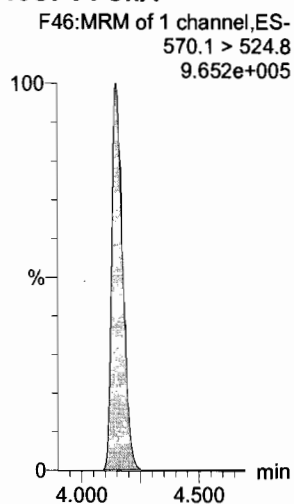
13C4-PFOS



13C6-PFDA



13C7-PFUnA



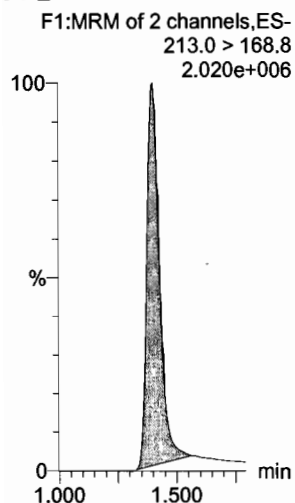
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

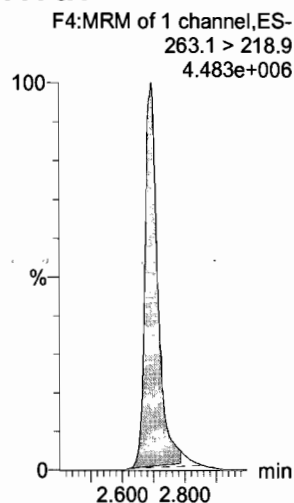
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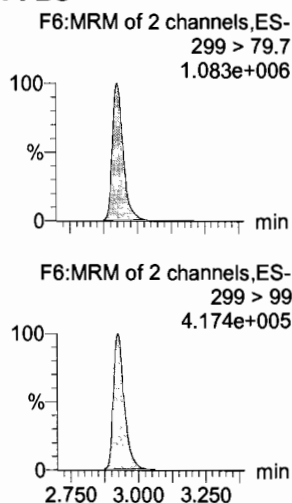
PFBA



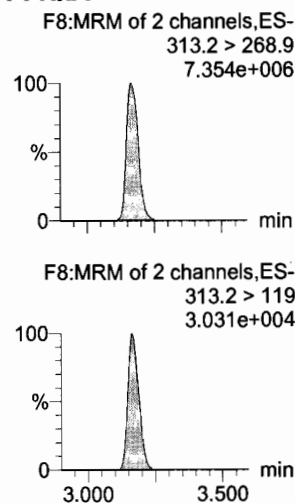
PFPeA



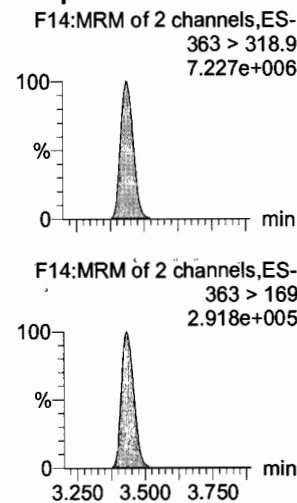
PFBS



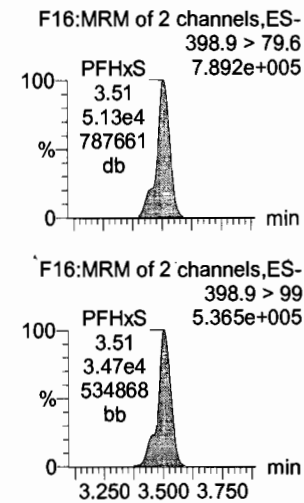
PFHxA



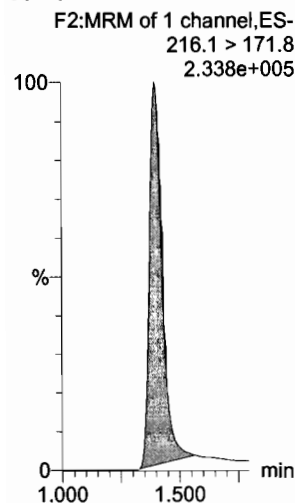
PFHpA



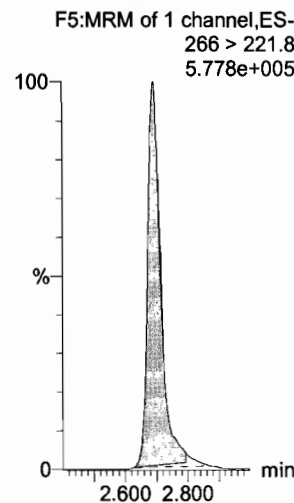
PFHxS



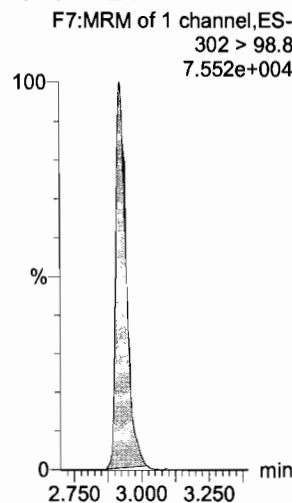
13C3-PFBA



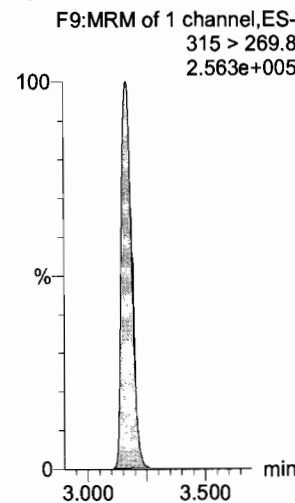
13C3-PFPeA



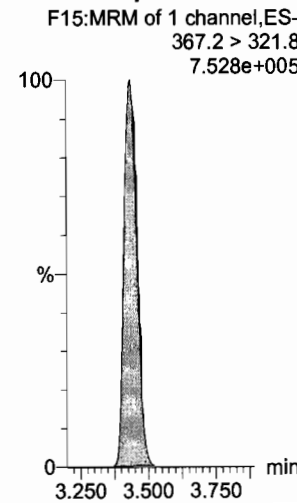
13C3-PFBS



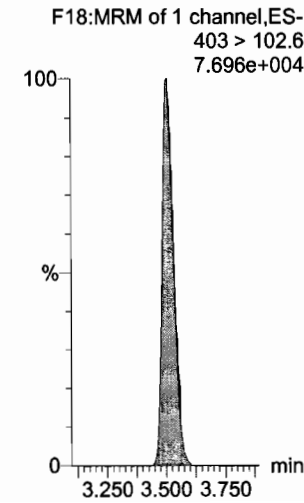
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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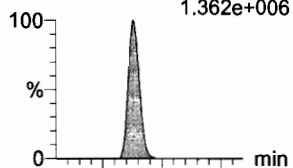
Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

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Name: 170731M2_9, Date: 01-Aug-2017, Time: 01:54:46, ID: ST170731M2-8 PFC CS5 17G3113, Description: PFC CS5 17G3113

6:2 FTS

F22:MRM of 2 channels,ES-
427.1 > 407
1.362e+006



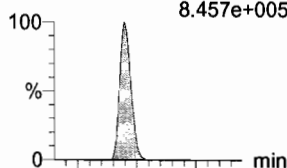
PFOA

F19:MRM of 2 channels,ES-
413 > 368.7
9.687e+006



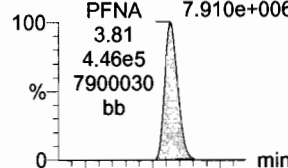
PFHpS

F24:MRM of 4 channels,ES-
448.9 > 98.8
8.457e+005



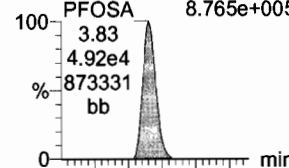
PFNA

F25:MRM of 2 channels,ES-
462.9 > 418.8
7.910e+006



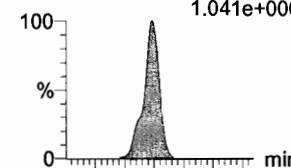
PFOSA

F28:MRM of 2 channels,ES-
498.1 > 77.8
8.765e+005

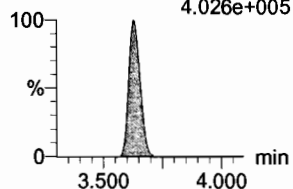


PFOS

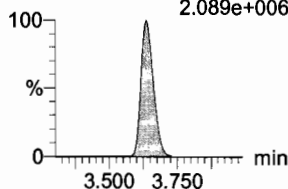
F30:MRM of 2 channels,ES-
499 > 79.9
1.041e+006



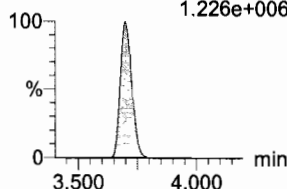
F22:MRM of 2 channels,ES-
427.1 > 80
4.026e+005



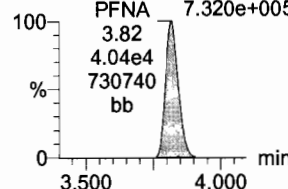
F19:MRM of 2 channels,ES-
413 > 169
2.089e+006



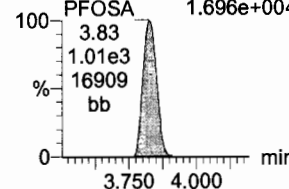
F24:MRM of 4 channels,ES-
448.9 > 79.9
1.226e+006



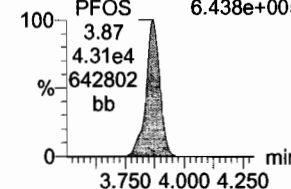
F25:MRM of 2 channels,ES-
462.9 > 219
7.320e+005



F28:MRM of 2 channels,ES-
498.1 > 478
1.696e+004

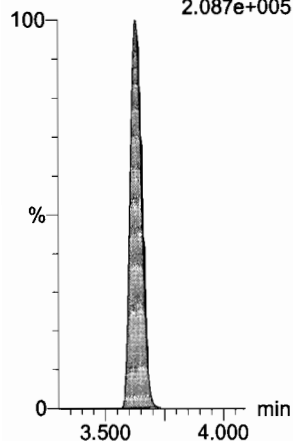


F30:MRM of 2 channels,ES-
499 > 99
6.438e+005



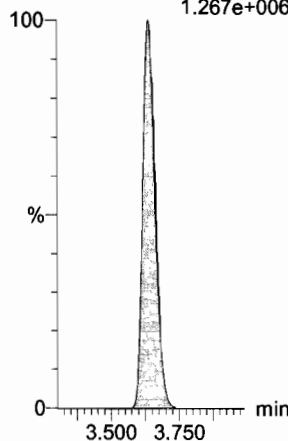
13C2-6:2 FTS

F23:MRM of 1 channel,ES-
429.1 > 408.9
2.087e+005



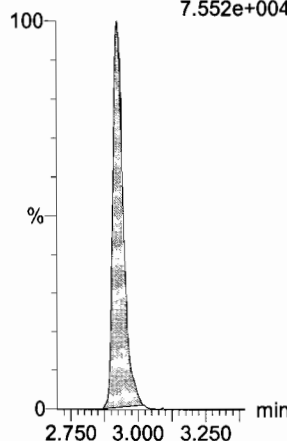
13C2-PFOA

F20:MRM of 1 channel,ES-
414.9 > 369.7
1.267e+006



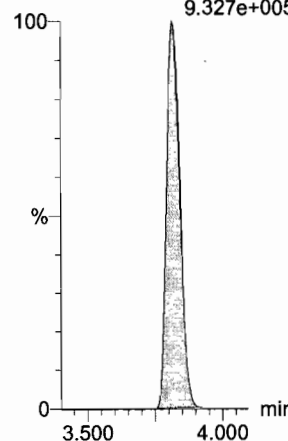
13C3-PFBS

F7:MRM of 1 channel,ES-
302 > 98.8
7.552e+004



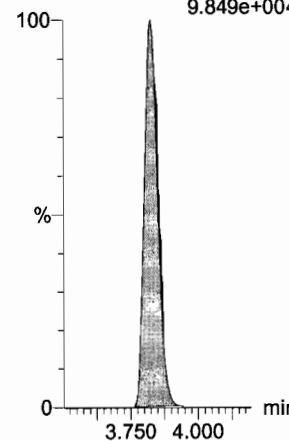
13C5-PFNA

F26:MRM of 1 channel,ES-
468.2 > 422.9
9.327e+005



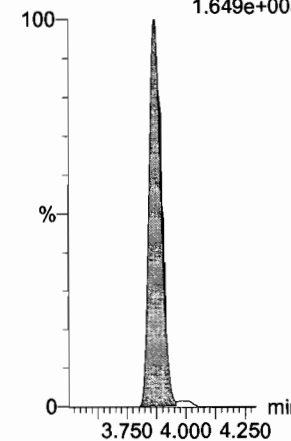
13C8-PFOSA

F32:MRM of 1 channel,ES-
506.1 > 77.7
9.849e+004



13C8-PFOS

F33:MRM of 1 channel,ES-
507 > 79.9
1.649e+005



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

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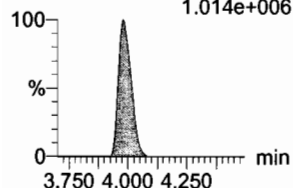
Name: 170731M2_9, Date: 01-Aug-2017, Time: 01:54:46, ID: ST170731M2-8 PFC CS5 17G3113, Description: PFC CS5 17G3113

PFDA

F35:MRM of 2 channels,ES-
513 > 468.8
7.832e+006

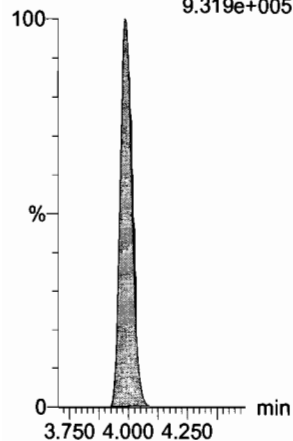


F35:MRM of 2 channels,ES-
513 > 219
1.014e+006



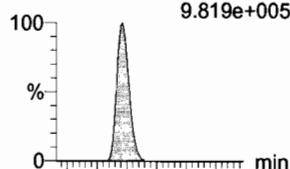
13C2-PFDA

F36:MRM of 1 channel,ES-
515.1 > 469.9
9.319e+005

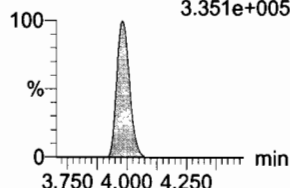


8:2 FTS

F40:MRM of 2 channels,ES-
527 > 506.9
9.819e+005

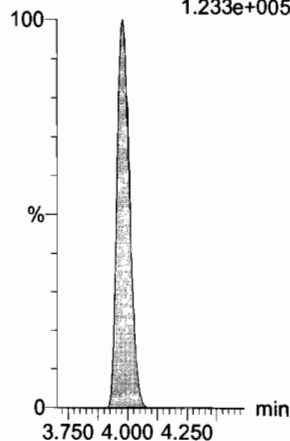


F40:MRM of 2 channels,ES-
527 > 80
3.351e+005



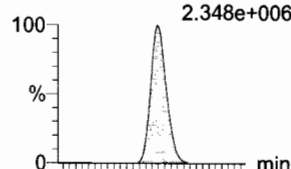
13C2-8:2 FTS

F41:MRM of 1 channel,ES-
529.1 > 508.7
1.233e+005

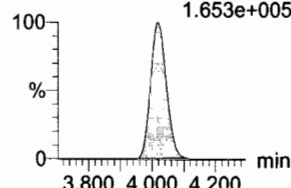


N-MeFOSAA

F45:MRM of 2 channels,ES-
570.1 > 419
2.348e+006

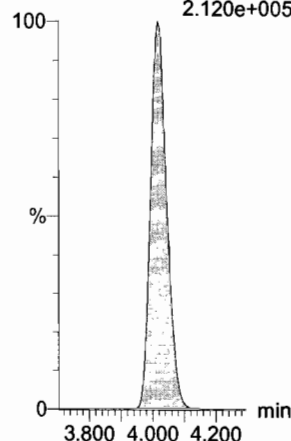


F45:MRM of 2 channels,ES-
570.1 > 483
1.653e+005



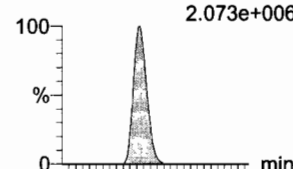
d3-N-MeFOSAA

F47:MRM of 1 channel,ES-
573.3 > 419
2.120e+005

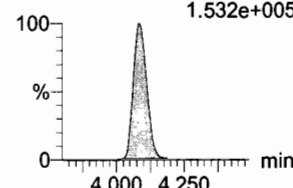


N-EtFOSAA

F48:MRM of 2 channels,ES-
584.2 > 419
2.073e+006

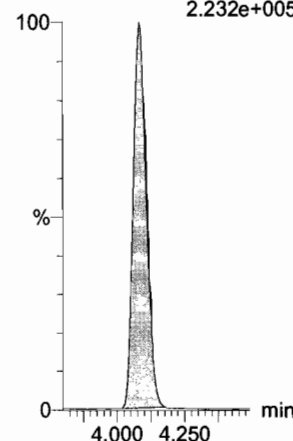


F48:MRM of 2 channels,ES-
584.2 > 483
1.532e+005



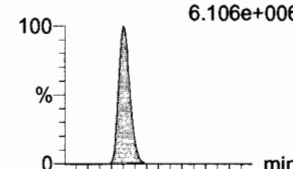
d5-N-EtFOSAA

F49:MRM of 1 channel,ES-
589.3 > 419
2.232e+005

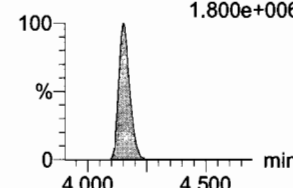


PFUnA

F43:MRM of 2 channels,ES-
562.9 > 518.9
6.106e+006

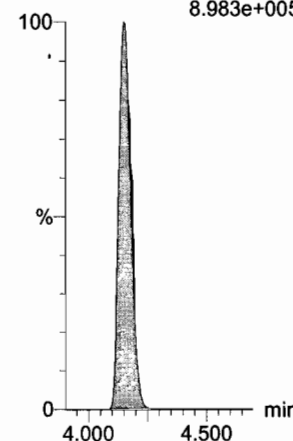


F43:MRM of 2 channels,ES-
562.9 > 269
1.800e+006



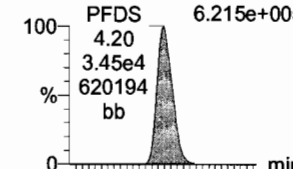
13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
8.983e+005

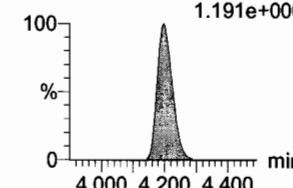


PFDS

F50:MRM of 2 channels,ES-
598.9 > 98.7
6.215e+005

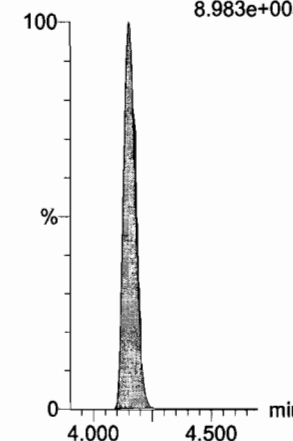


F50:MRM of 2 channels,ES-
598.9 > 80
1.191e+006



13C2-PFUnA

F44:MRM of 1 channel,ES-
565 > 519.8
8.983e+005



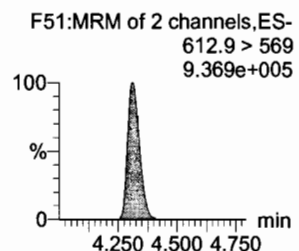
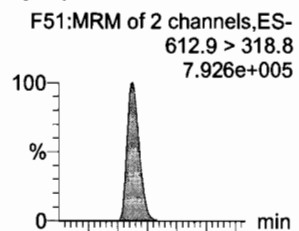
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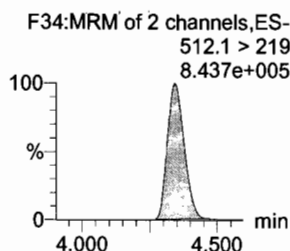
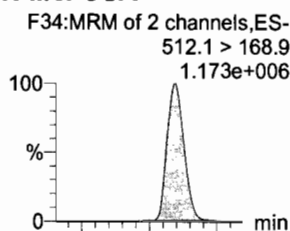
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Name: 170731M2_9, Date: 01-Aug-2017, Time: 01:54:46, ID: ST170731M2-8 PFC CS5 17G3113, Description: PFC CS5 17G3113

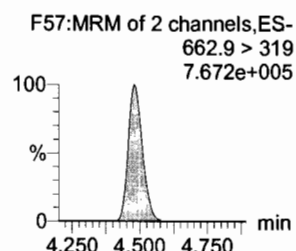
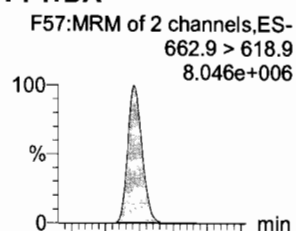
PFDaA



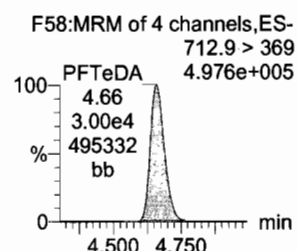
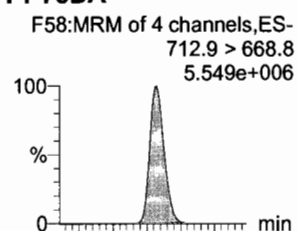
N-MeFOSA



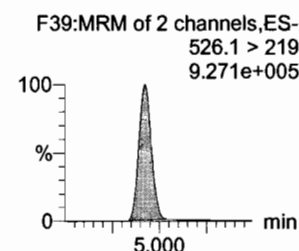
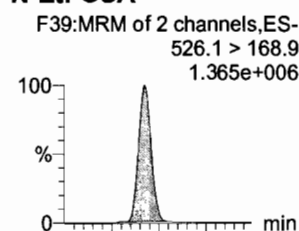
PFTrDA



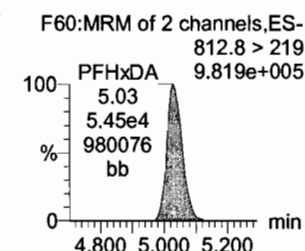
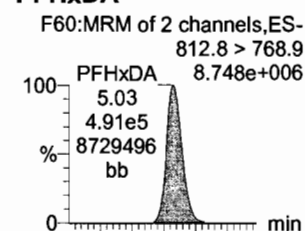
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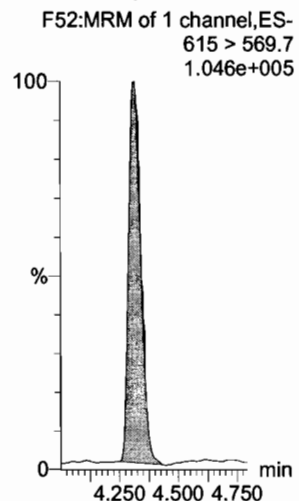
N-EtFOSA



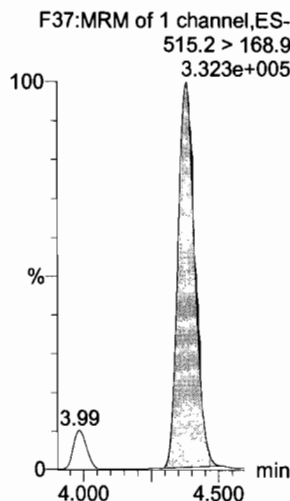
PFHxDA



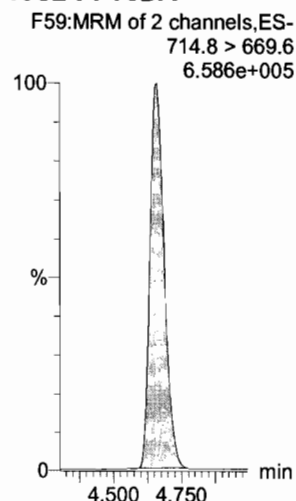
13C2-PFDaA



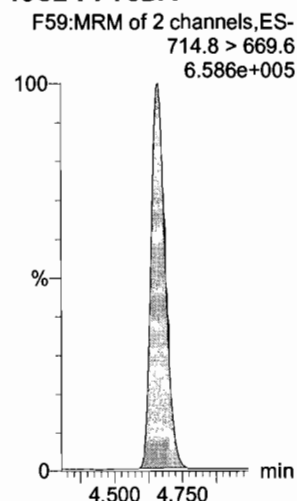
d3-N-MeFOSA



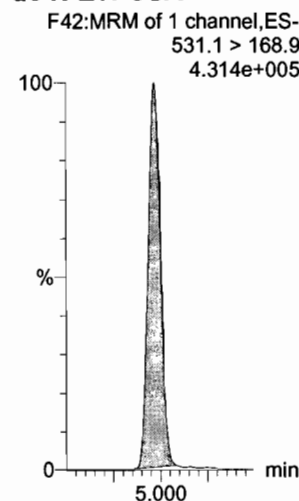
13C2-PFTeDA



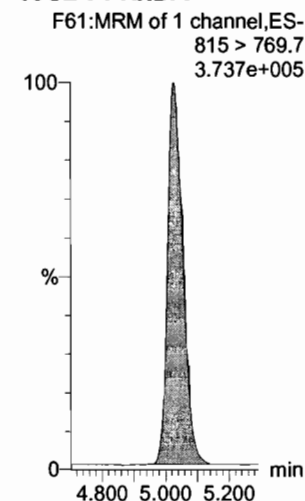
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

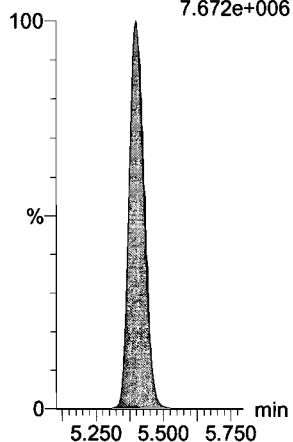
Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_9, Date: 01-Aug-2017, Time: 01:54:46, ID: ST170731M2-8 PFC CS5 17G3113, Description: PFC CS5 17G3113

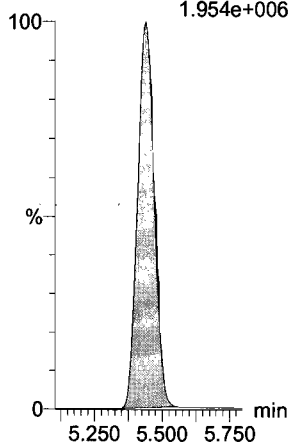
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
7.672e+006



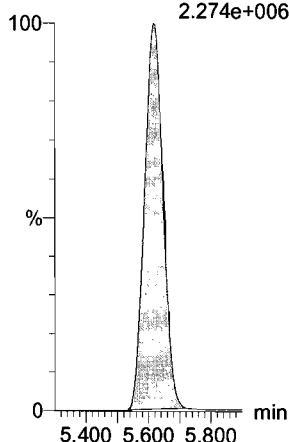
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
1.954e+006



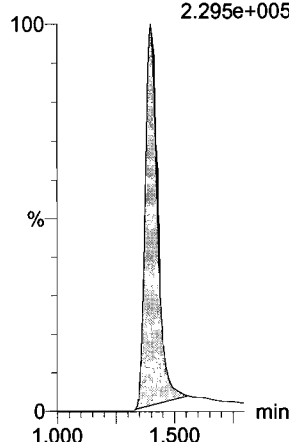
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
2.274e+006



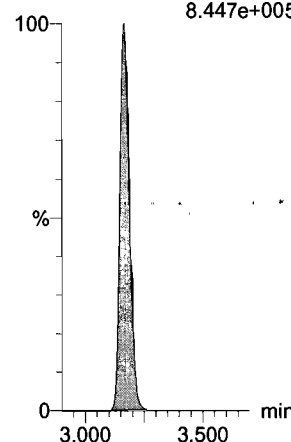
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
2.295e+005



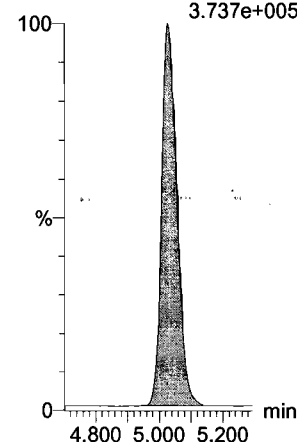
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.447e+005



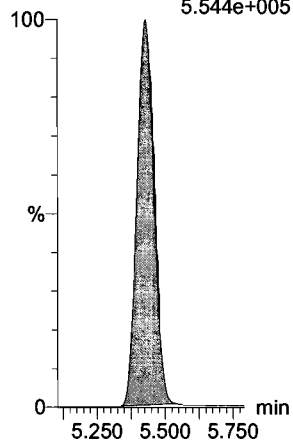
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.737e+005



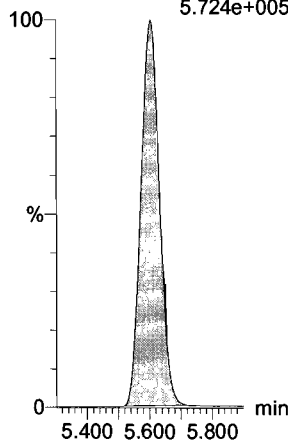
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.544e+005



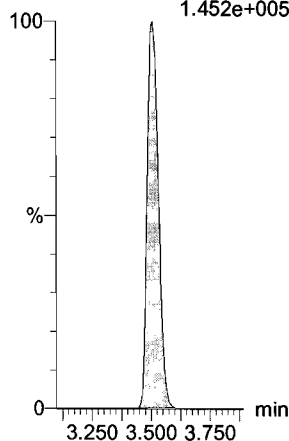
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.724e+005



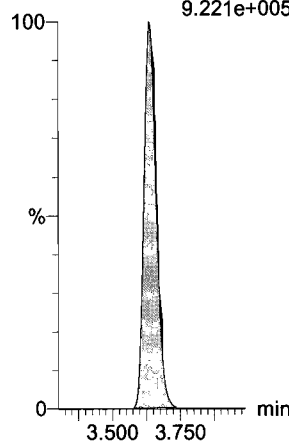
13C3-PFHxS

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.452e+005



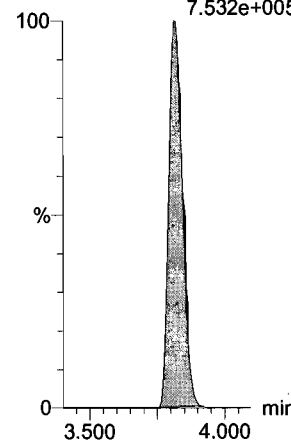
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
9.221e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
7.532e+005



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

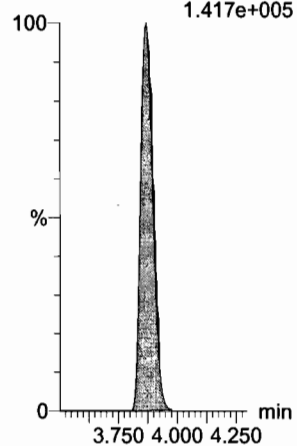
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Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_9, Date: 01-Aug-2017, Time: 01:54:46, ID: ST170731M2-8 PFC CS5 17G3113, Description: PFC CS5 17G3113

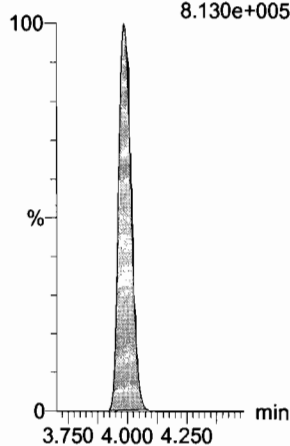
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.417e+005



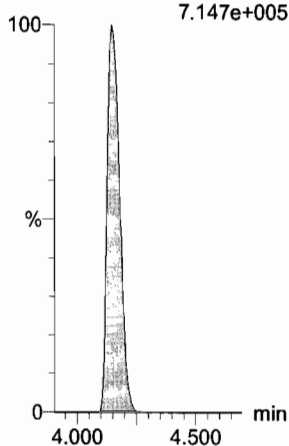
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
8.130e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
7.147e+005



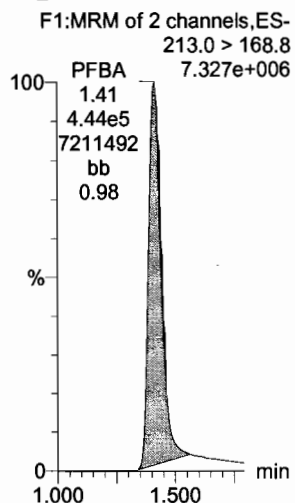
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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

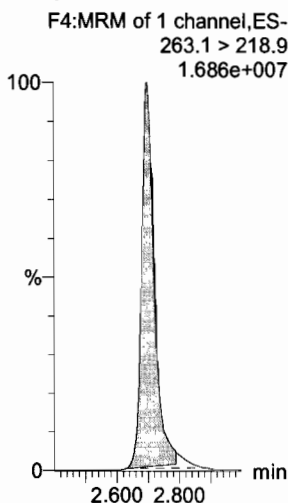
Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_10, Date: 01-Aug-2017, Time: 02:05:40, ID: ST170731M2-9 PFC CS6 17G2801, Description: PFC CS6 17G2801

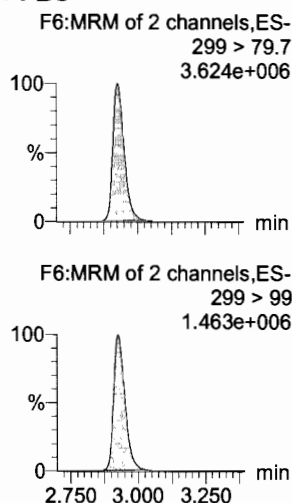
PFBA



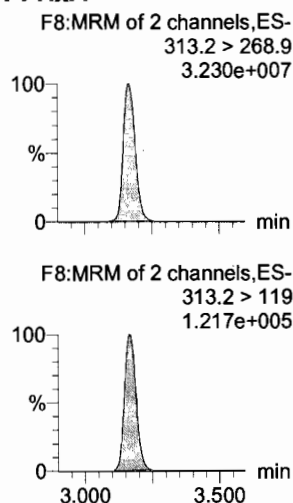
PFPeA



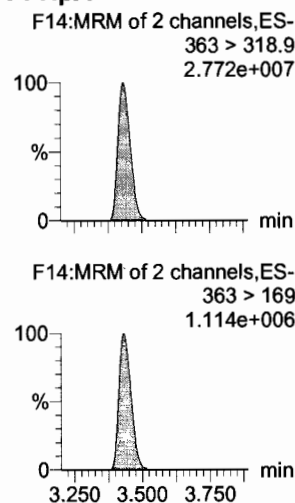
PFBS



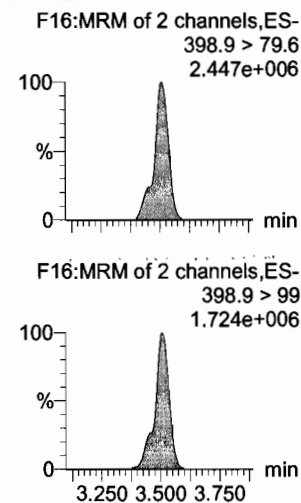
PFHxA



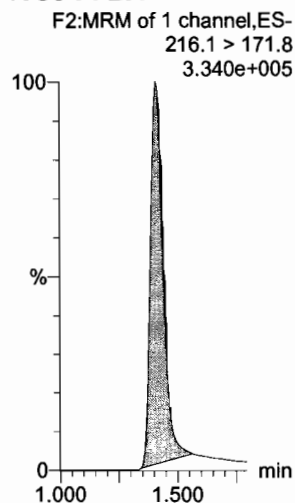
PFHpA



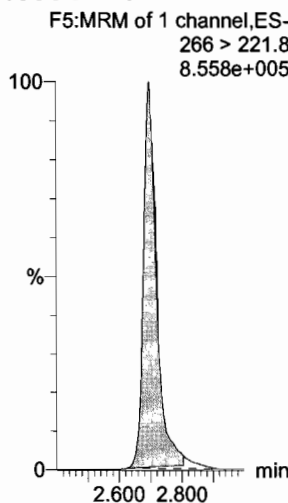
PFHxS



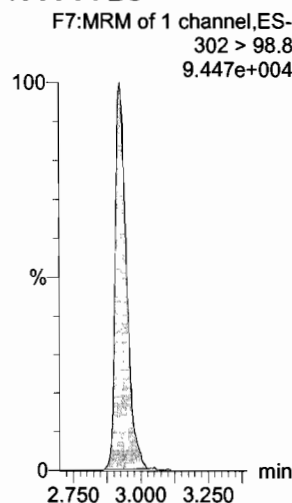
13C3-PFBA



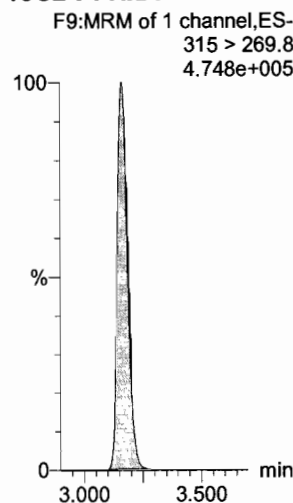
13C3-PFPeA



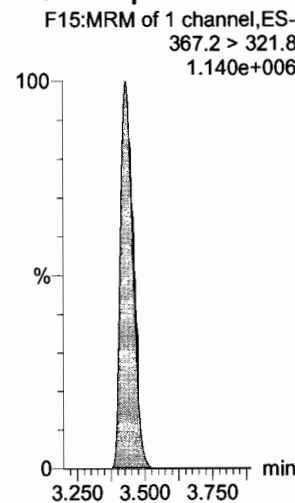
13C3-PFBS



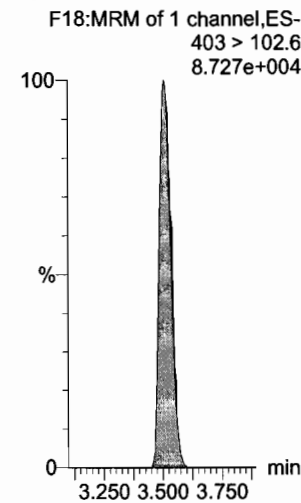
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

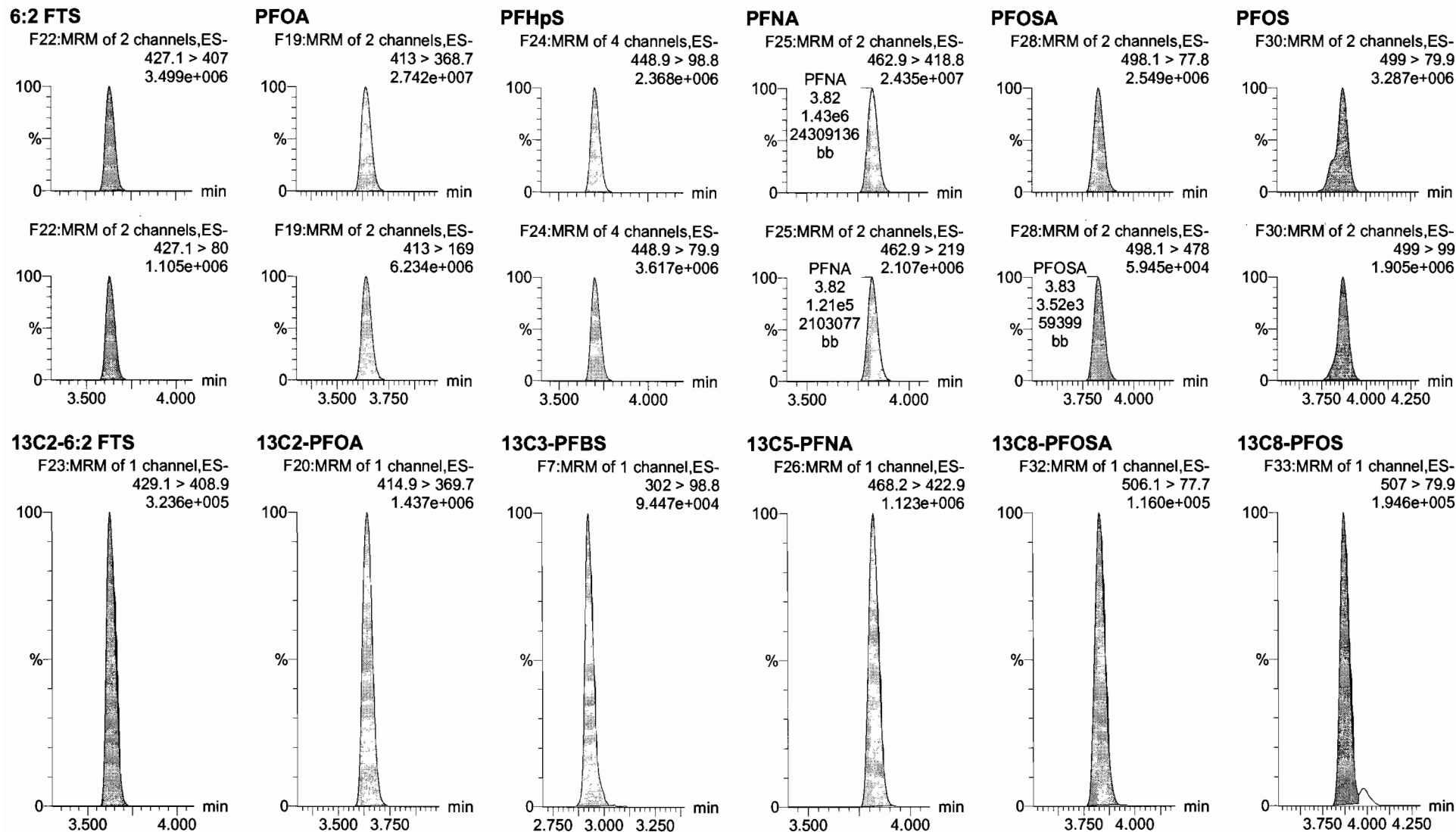


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Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_10, Date: 01-Aug-2017, Time: 02:05:40, ID: ST170731M2-9 PFC CS6 17G2801, Description: PFC CS6 17G2801



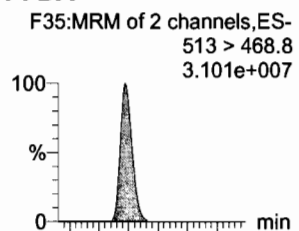
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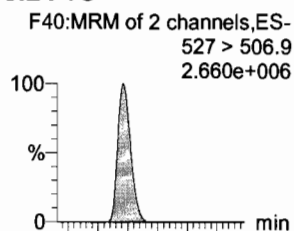
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Name: 170731M2_10, Date: 01-Aug-2017, Time: 02:05:40, ID: ST170731M2-9 PFC CS6 17G2801, Description: PFC CS6 17G2801

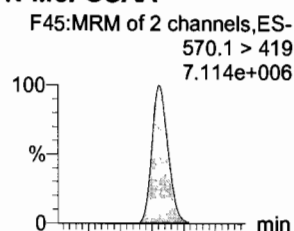
PFDA



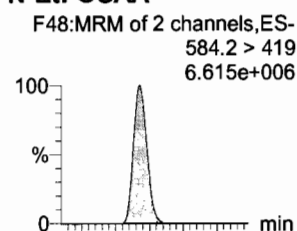
8:2 FTS



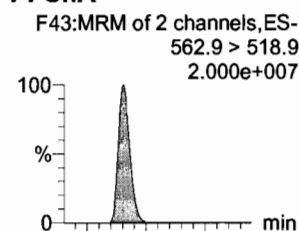
N-MeFOSAA



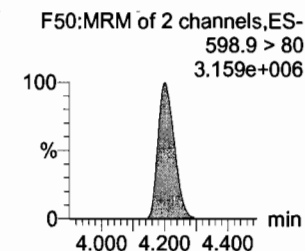
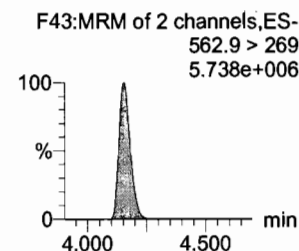
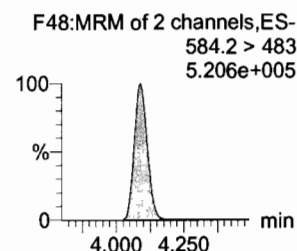
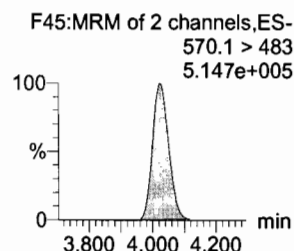
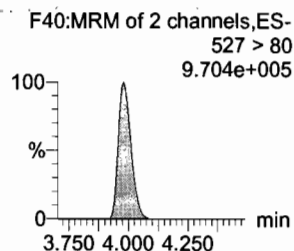
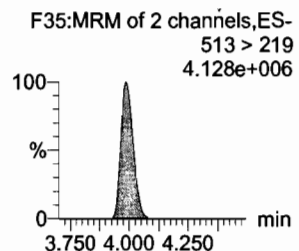
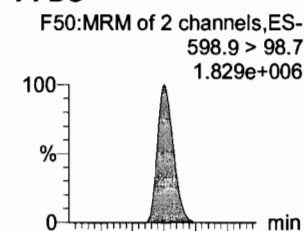
N-EtFOSAA



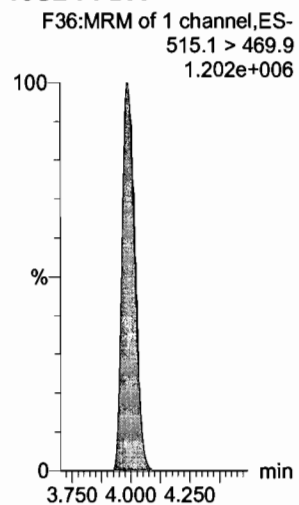
PFUnA



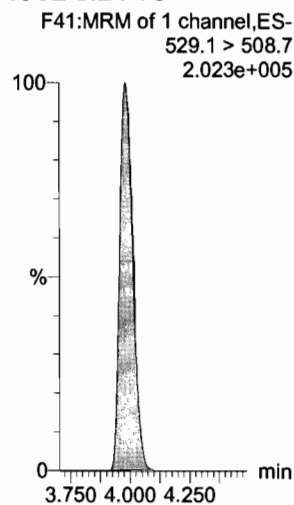
PFDS



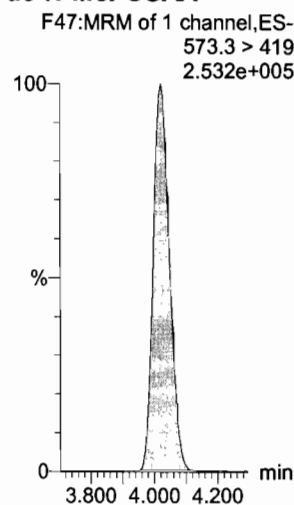
13C2-PFDA



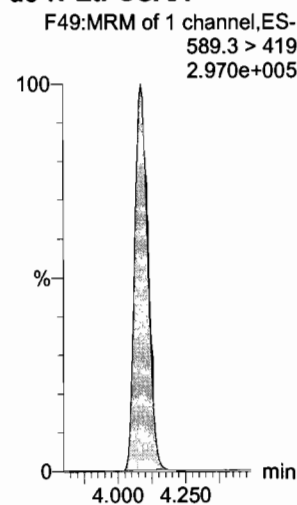
13C2-8:2 FTS



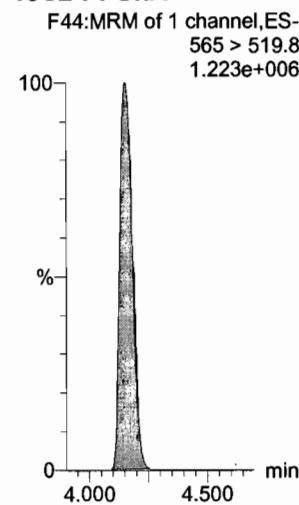
d3-N-MeFOSAA



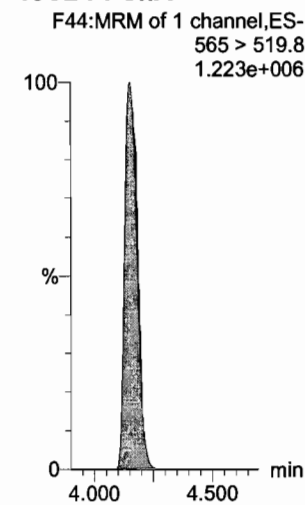
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



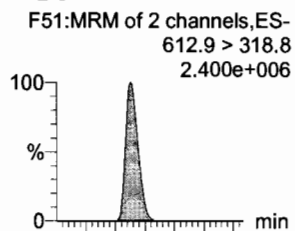
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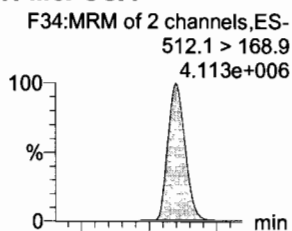
Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_10, Date: 01-Aug-2017, Time: 02:05:40, ID: ST170731M2-9 PFC CS6 17G2801, Description: PFC CS6 17G2801

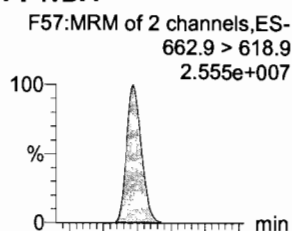
PFDaA



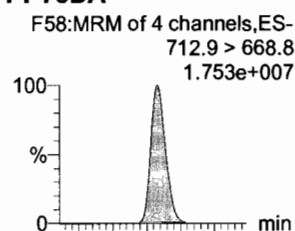
N-MeFOSA



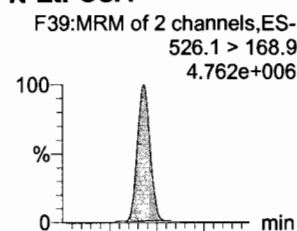
PFTTrDA



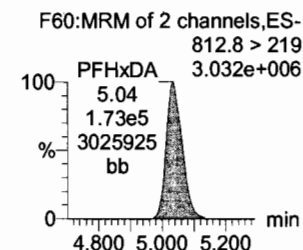
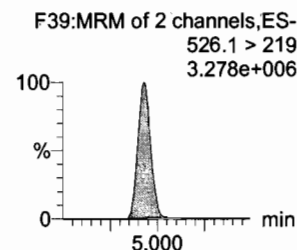
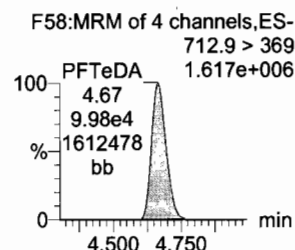
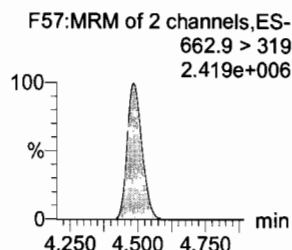
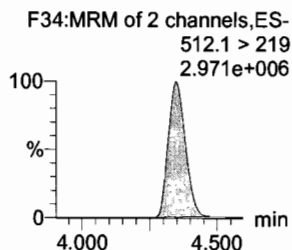
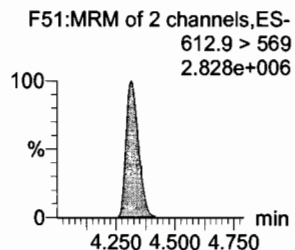
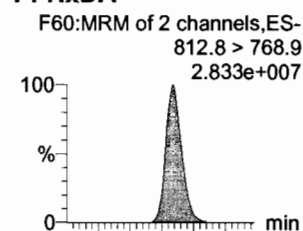
PFTeDA



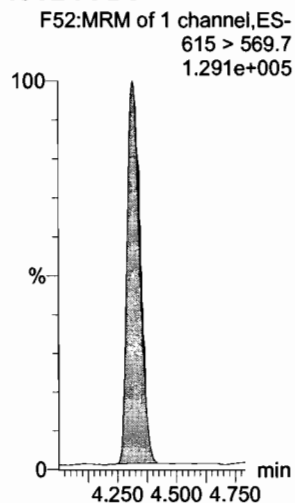
N-EtFOSA



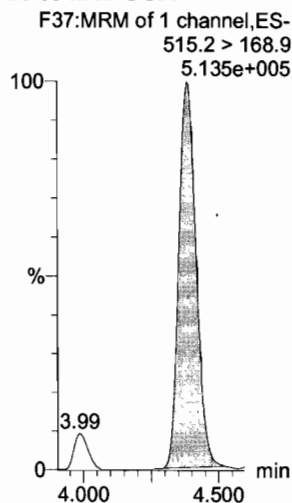
PFHxDA



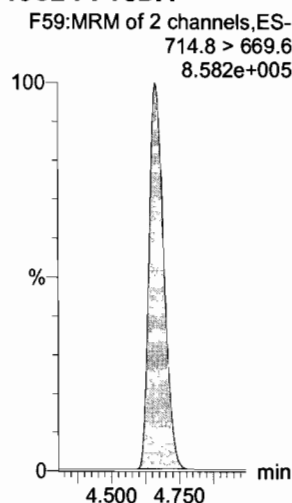
13C2-PFDaA



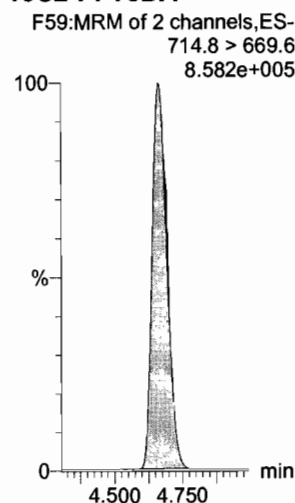
d3-N-MeFOSA



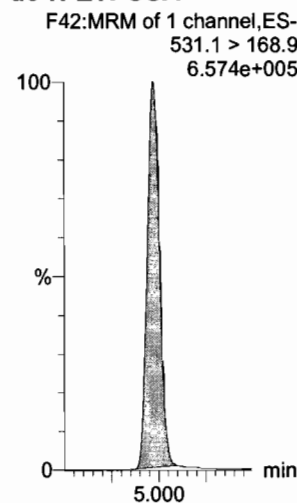
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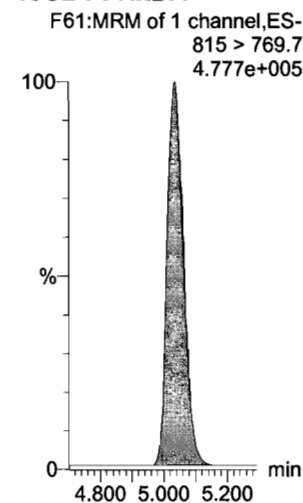
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



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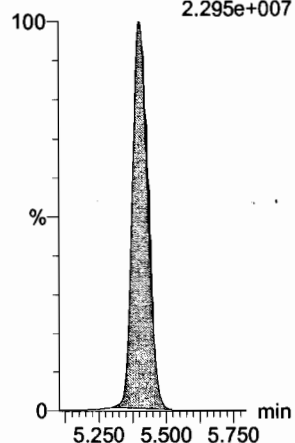
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Name: 170731M2_10, Date: 01-Aug-2017, Time: 02:05:40, ID: ST170731M2-9 PFC CS6 17G2801, Description: PFC CS6 17G2801

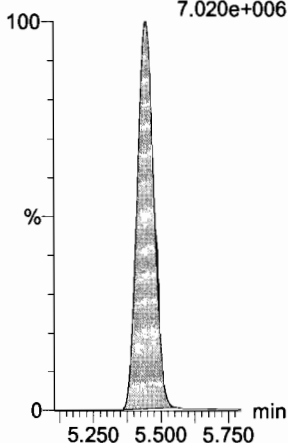
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
2.295e+007



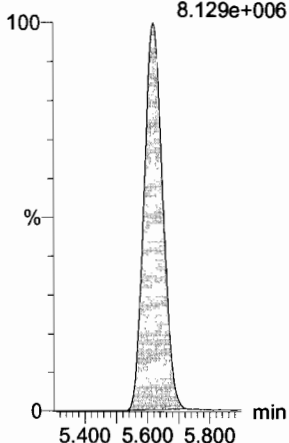
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
7.020e+006



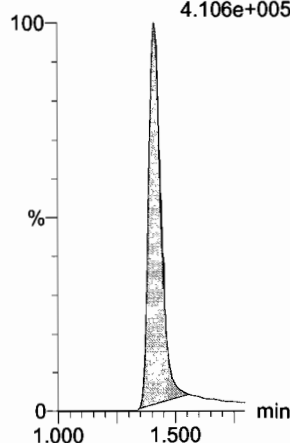
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
8.129e+006



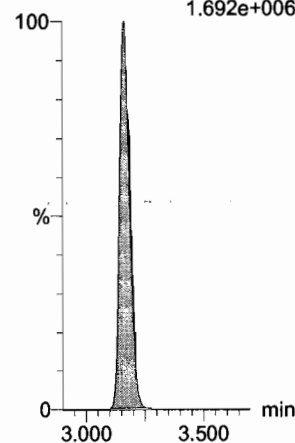
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
4.106e+005



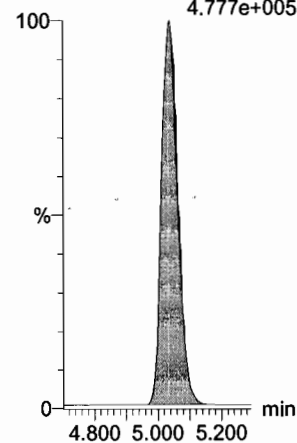
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
1.692e+006



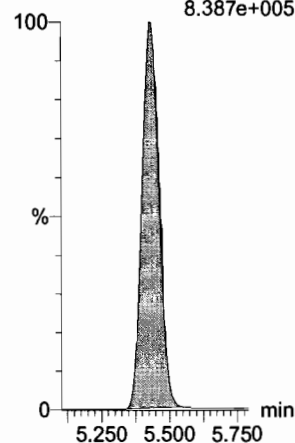
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
4.777e+005



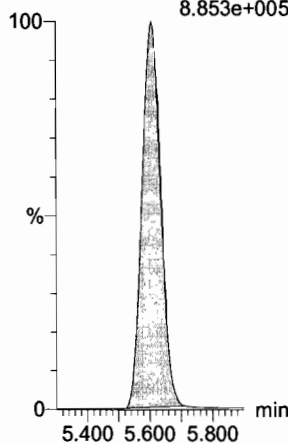
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
8.387e+005



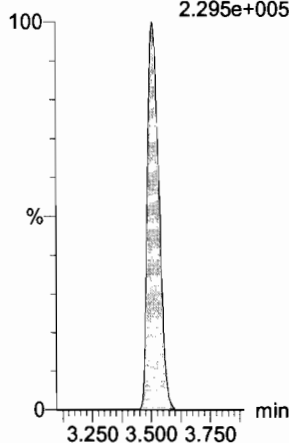
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
8.853e+005



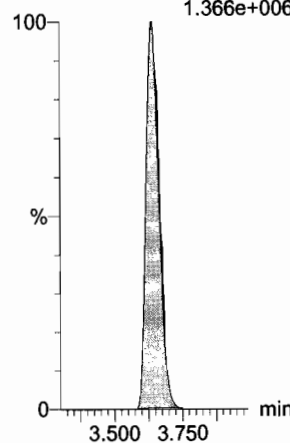
13C3-PFHxA

F17:MRM of 1 channel,ES-
401.9 > 79.9
2.295e+005



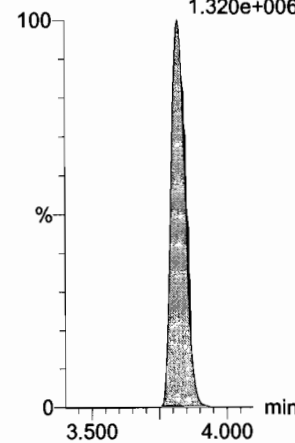
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
1.366e+006



13C9-PFNA

F27:MRM of 1 channel,ES-
472.2 > 426.9
1.320e+006



Dataset: U:\Q4.PRO\results\170731M2\170731M2-CRV.qld

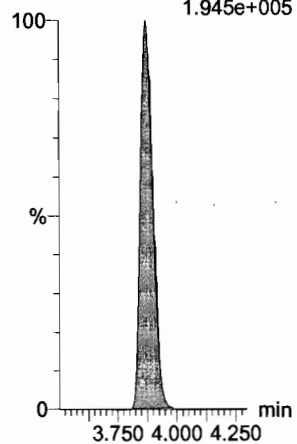
Last Altered: Tuesday, August 01, 2017 10:11:08 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:12:04 Pacific Daylight Time

Name: 170731M2_10, Date: 01-Aug-2017, Time: 02:05:40, ID: ST170731M2-9 PFC CS6 17G2801, Description: PFC CS6 17G2801

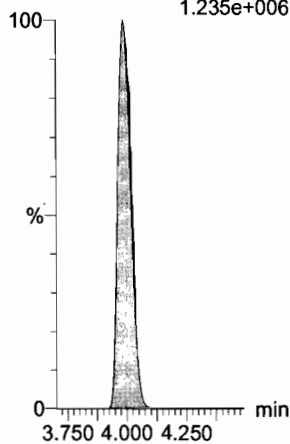
13C4-PFOS

F31:MRM of 1 channel,ES-
503 > 79.9
1.945e+005



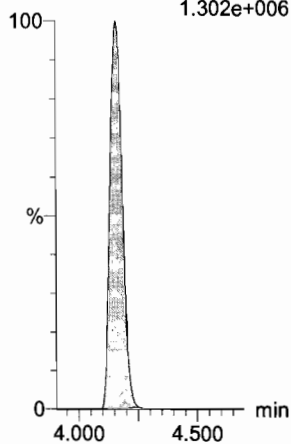
13C6-PFDA

F38:MRM of 1 channel,ES-
519.1 > 473.7
1.235e+006



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
1.302e+006



Dataset: U:\Q4.PRO\results\170731M2\170731M2-13.qld

Last Altered: Tuesday, August 01, 2017 10:24:48 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:25:30 Pacific Daylight Time

Ⓐ Not included in SS.

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-20-17.mdb 01 Aug 2017 09:55:07

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

AC
8/1/17

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp	Conc	%Rec
1	1 PFBA	213.0 > 168.8	1.17e4	1.36e4		1.41	1.40	10.7	9.89	98.9
2	2 PFPeA	263.1 > 218.9	2.16e4	2.96e4		2.77	2.70	9.11	9.54	95.4
3	3 PFBS	299 > 79.7	4.36e3	3.41e3		2.96	2.93	16.0	8.45	84.5
4	4 PFHxA	313.2 > 268.9	3.76e4	1.39e4		3.19	3.17	13.6	9.67	96.7
5	5 PFHpA	363 > 318.9	4.01e4	4.36e4		3.45	3.43	11.5	9.55	95.5
6	6 PFHxS	398.9 > 79.6	4.17e3	3.75e3		3.56	3.51	13.9	8.26	82.6
7	7 6:2 FTS	427.1 > 407	8.12e3	1.03e4		3.64	3.63	9.86	8.74	87.4
8	8 PFOA	413 > 368.7	5.00e4	6.49e4		3.65	3.64	9.63	9.94	99.4
9	9 PFHpS	448.9 > 98.8	4.25e3	6.49e4		3.71	3.70	0.818	9.42	94.2
10	10 PFNA	462.9 > 418.8	4.76e4	5.50e4		3.83	3.82	10.8	9.89	98.9
11	11 PFOSA	498.1 > 77.8	5.22e3	6.35e3		3.84	3.83	10.3	9.60	96.0
12	12 PFOS	499 > 79.9	7.20e3	1.06e4		3.89	3.87	8.48	8.29	82.9
13	13 PFDA	513 > 468.8	4.82e4	5.65e4		4.01	3.99	10.6	8.74	87.4
14	14 8:2 FTS	527 > 506.9	6.54e3	6.05e3		4.00	3.98	13.5	9.58	95.8
15	15 N-MeFOSAA	570.1 > 419	1.39e4	1.35e4		4.03	4.02	167	9.37	93.7
16	16 N-EtFOSAA	584.2 > 419	1.18e4	1.25e4		4.10	4.09	153	9.93	99.3
17	17 PFUnA	562.9 > 518.9	3.73e4	6.16e4		4.17	4.16	7.57	9.88	98.8
18	18 PFDS	598.9 > 98.7	3.30e3	6.16e4		4.22	4.20	0.669	8.31	83.1
19	19 PFDoA	612.9 > 318.8	4.17e3	6.21e3		4.34	4.31	8.40	8.92	89.2
20	20 N-MeFOSA	512.1 > 168.9		2.44e4		4.29				
21	21 PFTrDA	662.9 > 618.9	4.94e4	6.21e3		4.50	4.49	99.5	9.48	94.8
22	22 PFTeDA	712.9 > 668.8	3.40e4	4.04e4		4.68	4.66	10.5	9.73	97.3
23	23 N-EtFOSA	526.1 > 168.9	5.15e0	3.29e4		4.87	4.93	0.0235		
24	24 PFHxDA	812.8 > 768.9	5.23e2	1.96e4		5.06	5.03	0.133		
25	25 PFODA	912.8 > 868.8	3.08e2	1.96e4		5.43	5.40	0.0785		
26	26 N-MeFOSE	616.1 > 58.9	2.97e1	3.90e4		5.42	5.44	0.114		
27	27 N-EtFOSE	630.1 > 58.9		3.88e4		5.59				
28	28 13C3-PFBA	216.1 > 171.8	1.36e4	1.36e4	1.006	1.41	1.40	12.5	12.4	99.5
29	29 13C3-PFPeA	266 > 221.8	2.96e4	3.98e4	0.275	2.77	2.69	3.73	13.5	108.4
30	30 13C3-PFBS	302 > 98.8	3.41e3	3.98e4	0.034	2.96	2.92	0.428	12.6	100.4
31	31 13C3-PFOS	315 > 269.8	1.39e4	3.98e4	0.334	3.19	3.17	1.74	5.22	104.3

70-130

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Dataset: U:\Q4.PRO\results\170731M2\170731M2-13.qld

Last Altered: Tuesday, August 01, 2017 10:24:48 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:25:30 Pacific Daylight Time

Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	32 13C4-PFHpA	367.2 > 321.8	4.36e4	3.98e4	0.414	3.45	3.43	5.48	13.2	105.9
33	33 18O2-PFHxS	403 > 102.6	3.75e3	7.57e3	0.475	3.56	3.51	6.19	13.0	104.2
34	34 13C2-6:2 FTS	429.1 > 408.9	1.03e4	4.79e4	0.214	3.64	3.63	2.68	12.5	100.3
35	35 13C2-PFOA	414.9 > 369.7	6.49e4	4.79e4	1.298	3.65	3.64	16.9	13.0	104.2
36	36 13C5-PFNA	468.2 > 422.9	5.50e4	4.99e4	1.094	3.83	3.82	13.8	12.6	100.7
37	37 13C8-PFOSA	506.1 > 77.7	6.35e3	5.45e4	0.124	3.84	3.83	1.46	11.7	93.5
38	38 13C8-PFOS	507 > 79.9	1.06e4	8.57e3	1.153	3.89	3.87	15.5	13.4	107.4
39	39 13C2-PFDA	515.1 > 469.9	5.65e4	5.31e4	1.059	4.01	3.99	13.3	12.6	100.6
40	40 13C2-8:2 FTS	529.1 > 508.7	6.05e3	5.31e4	0.129	4.00	3.98	1.43	11.1	88.7
41	41 d3-N-MeFOSAA	573.3 > 419	1.35e4	5.45e4	0.019	4.03	4.02	3.09	160	98.5
42	42 d5-N-EtFOSAA	589.3 > 419	1.25e4	5.45e4	0.019	4.12	4.09	2.87	151	93.2
43	43 13C2-PFUnA	565 > 519.8	6.16e4	5.45e4	1.172	4.17	4.16	14.1	12.1	96.4
44	44 13C2-PFDoA	615 > 569.7	6.21e3	5.45e4	0.118	4.34	4.31	1.42	12.0	96.1
45	45 d3-N-MeFOSA	515.2 > 168.9	2.44e4	5.45e4	0.040	4.29	4.38	5.60	138	92.3
46	46 13C2-PFTeDA	714.8 > 669.6	4.04e4	5.45e4	0.801	4.68	4.66	9.26	11.6	92.5
47	47 d5-N-ETFOSA	531.1 > 168.9	3.29e4	5.45e4	0.055	5.01	4.97	7.55	137	91.4
48	48 13C2-PFHxDA	815 > 769.7	1.96e4	5.45e4	0.991	5.06	5.03	4.50	4.54	90.7
49	49 d7-N-MeFOSE	623.1 > 58.9	3.90e4	5.45e4	0.065	5.42	5.43	8.94	137	91.4
50	50 d9-N-EtFOSE	639.2 > 58.8	3.88e4	5.45e4	0.065	5.59	5.61	8.89	137	91.5
51	51 13C4-PFBA	217 > 171.8	1.36e4	1.36e4	1.000	1.41	1.40	12.5	12.5	100.0
52	52 13C5-PFHxA	318 > 272.9	3.98e4	3.98e4	1.000	3.19	3.17	5.00	5.00	100.0
53	53 13C3-PFHxS	401.9 > 79.9	7.57e3	7.57e3	1.000	3.56	3.51	12.5	12.5	100.0
54	54 13C8-PFOA	421.3 > 376	4.79e4	4.79e4	1.000	3.65	3.64	12.5	12.5	100.0
55	55 13C9-PFNA	472.2 > 426.9	4.99e4	4.99e4	1.000	3.83	3.82	12.5	12.5	100.0
56	56 13C4-PFOS	503 > 79.9	8.57e3	8.57e3	1.000	3.89	3.87	12.5	12.5	100.0
57	57 13C6-PFDA	519.1 > 473.7	5.31e4	5.31e4	1.000	4.01	3.99	12.5	12.5	100.0
58	58 13C7-PFUnA	570.1 > 524.8	5.45e4	5.45e4	1.000	4.17	4.16	12.5	12.5	100.0

Dataset: U:\Q4.PRO\results\170731M2\170731M2-13.qld

Last Altered: Tuesday, August 01, 2017 10:24:48 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:25:30 Pacific Daylight Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_7-20-17.mdb 01 Aug 2017 09:55:07

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_7-31-17-FULL.cdb 01 Aug 2017 10:11:08

Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

Total PFBS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	3 PFBS	299 > 79.7	2.93	4357.564	3405.490	15.995	bb	8.45

Total PFHxS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	6 PFHxS	398.9 > 79.6	3.51	4174.485	3749.125	13.918	MM	8.26

Total PFOA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	8 PFOA	413 > 368.7	3.64	49957.527	64869.781	9.627	bb	9.94

Total PFOS

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	12 PFOS	499 > 79.9	3.87	7204.411	10619.089	8.480	bb	8.29

Total N-Me-FOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	15 N-MeFOSAA	570.1 > 419	4.02	13886.400	13491.591	167.255	bb	9.37
2	63 Total N-Me-FOSAA	570.1 > 419	3.87	6.033	13491.591	0.073	bbl	
3	63 Total N-Me-FOSAA	570.1 > 419	3.76	12.109	13491.591	0.146	bbl	

Total N-EtFOSAA

	# Name	Trace	RT	Area	IS Area	Response	Primary Flags	Conc.
1	16 N-EtFOSAA	584.2 > 419	4.09	11783.439	12511.836	153.040	bb	9.93
2	64 Total N-EtFOSAA	584.2 > 419	4.33	9.825	12511.836	0.128	bb	0.0294

Dataset: U:\Q4.PRO\results\170731M2\170731M2-13.qld

Last Altered: Tuesday, August 01, 2017 10:24:48 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:25:30 Pacific Daylight Time

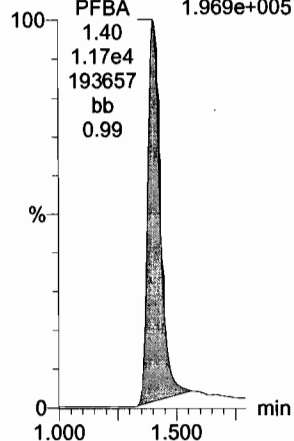
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Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

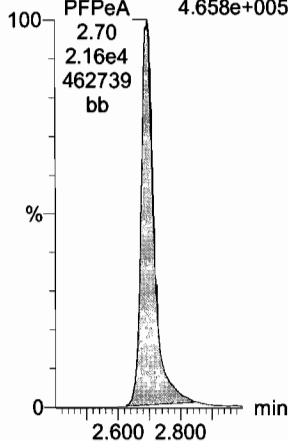
PFBA

F1:MRM of 2 channels,ES-
213.0 > 168.8
1.969e+005



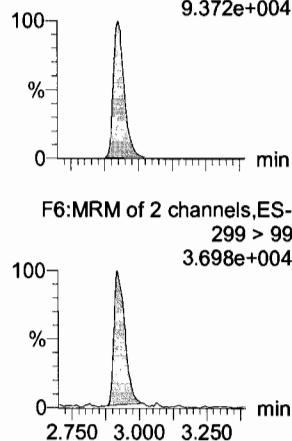
PFPeA

F4:MRM of 1 channel,ES-
263.1 > 218.9
4.658e+005



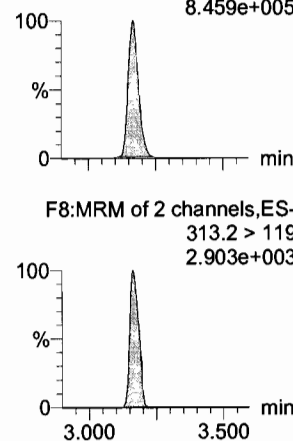
PFBS

F6:MRM of 2 channels,ES-
299 > 79.7
9.372e+004



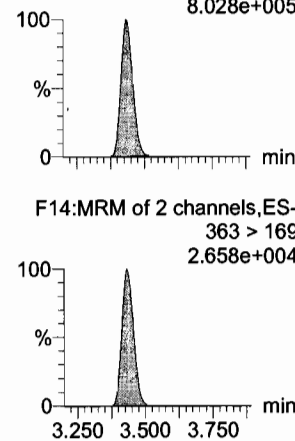
PFHxA

F8:MRM of 2 channels,ES-
313.2 > 268.9
8.459e+005



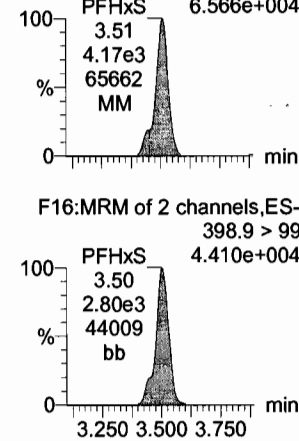
PFHpA

F14:MRM of 2 channels,ES-
363 > 318.9
8.028e+005



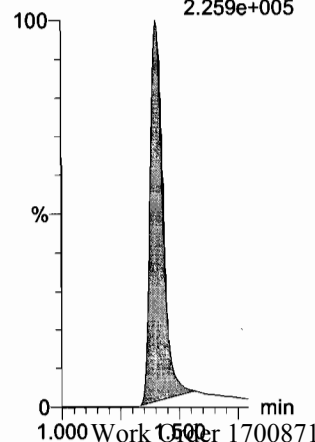
PFHxS

F16:MRM of 2 channels,ES-
398.9 > 79.6
6.566e+004



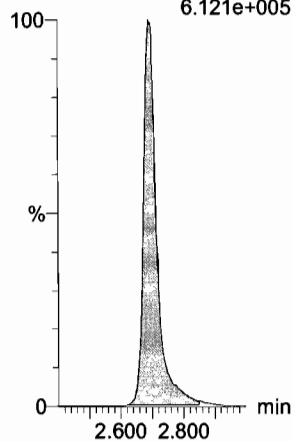
13C3-PFBA

F2:MRM of 1 channel,ES-
216.1 > 171.8
2.259e+005



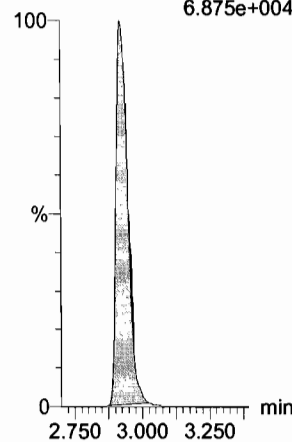
13C3-PFPeA

F5:MRM of 1 channel,ES-
266 > 221.8
6.121e+005



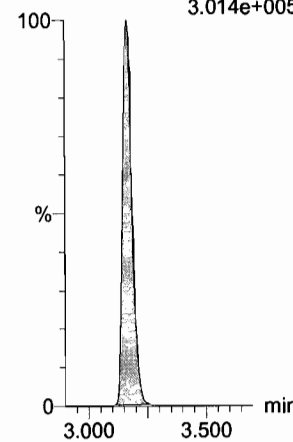
13C3-PFBS

F7:MRM of 1 channel,ES-
302 > 98.8
6.875e+004



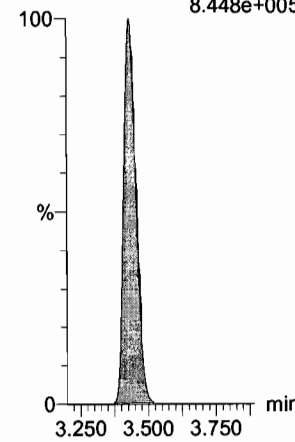
13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
3.014e+005



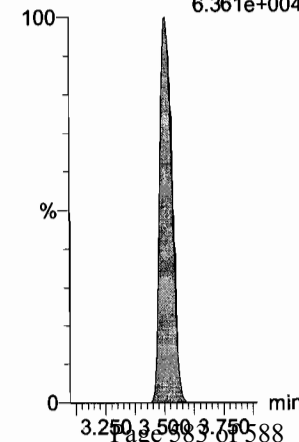
13C4-PFHpA

F15:MRM of 1 channel,ES-
367.2 > 321.8
8.448e+005



18O2-PFHxS

F18:MRM of 1 channel,ES-
403 > 102.6
6.361e+004



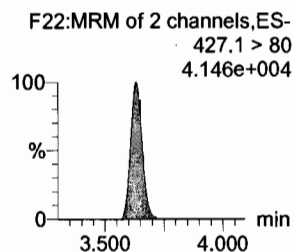
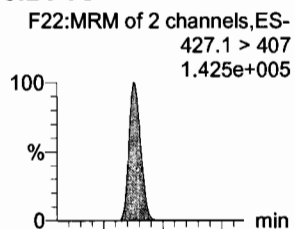
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Last Altered: Tuesday, August 01, 2017 10:24:48 Pacific Daylight Time

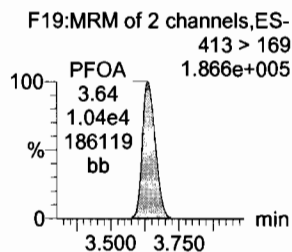
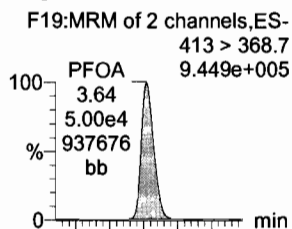
Printed: Tuesday, August 01, 2017 10:25:30 Pacific Daylight Time

Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

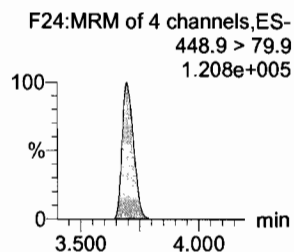
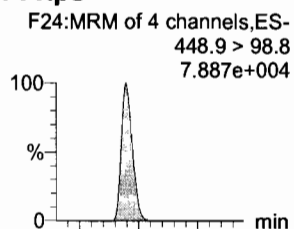
6:2 FTS



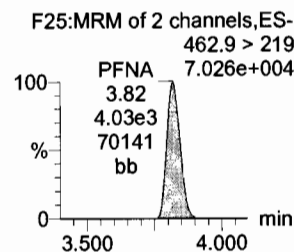
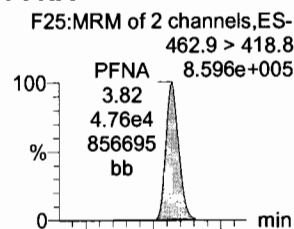
PFOA



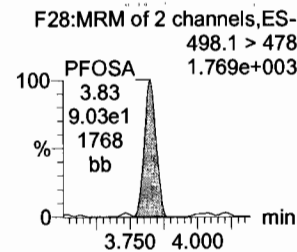
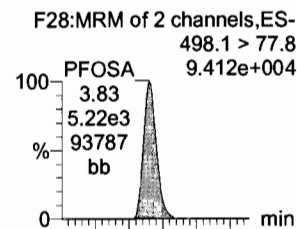
PFHpS



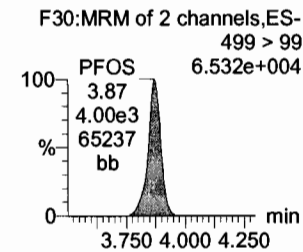
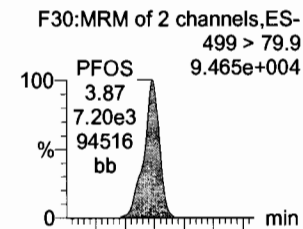
PFNA



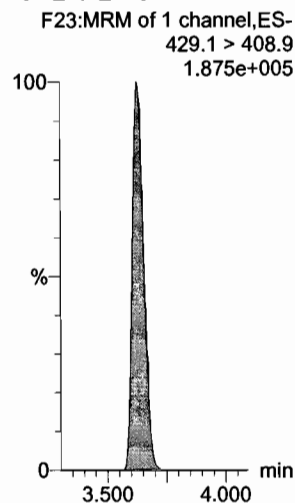
PFOSA



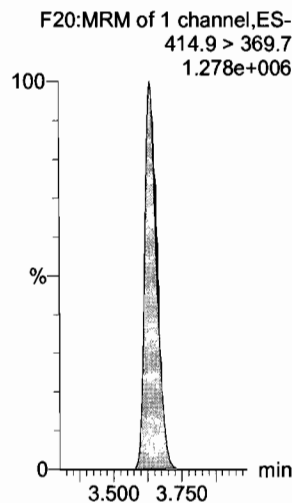
PFOS



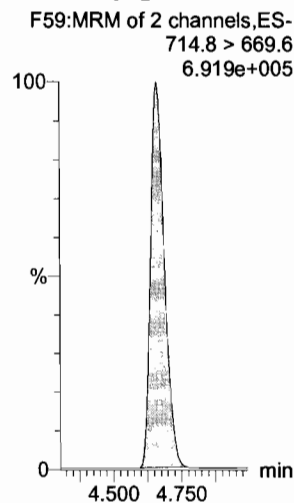
13C2-6:2 FTS



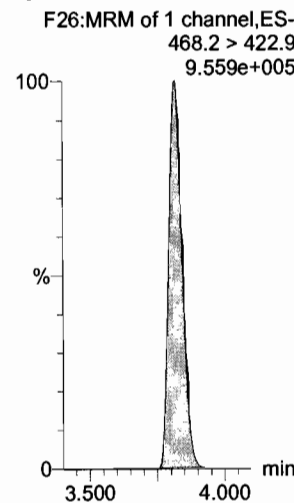
13C2-PFOA



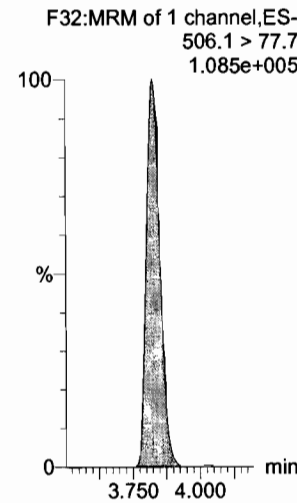
13C2-PFTeDA



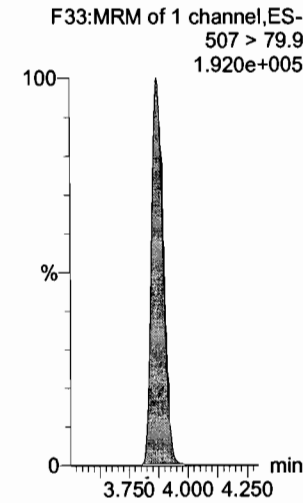
13C5-PFNA



13C8-PFOSA



13C8-PFOS



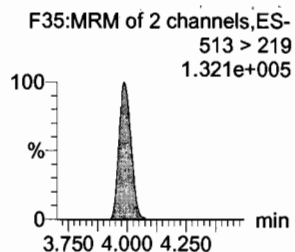
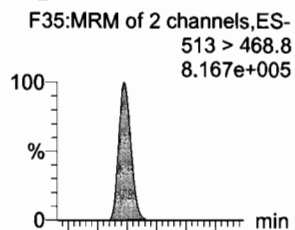
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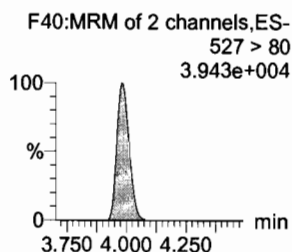
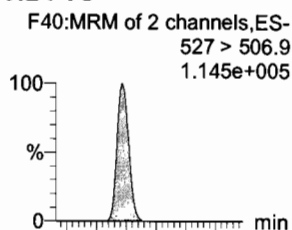
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Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

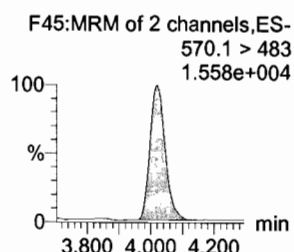
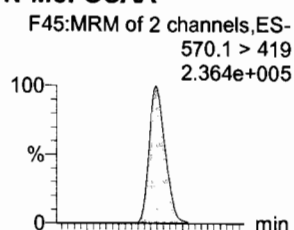
PFDA



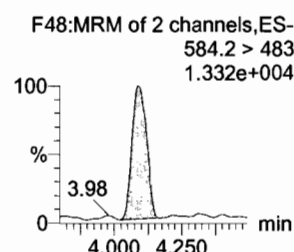
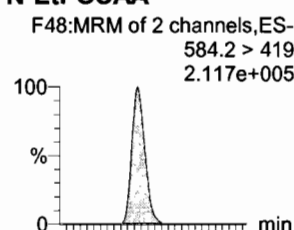
8:2 FTS



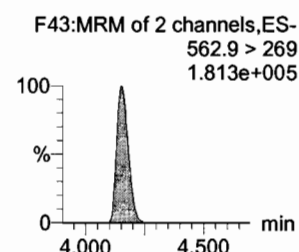
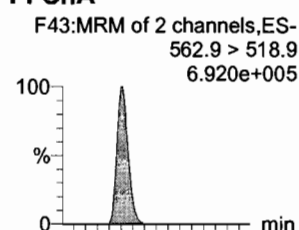
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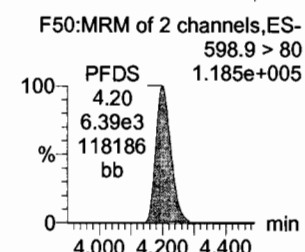
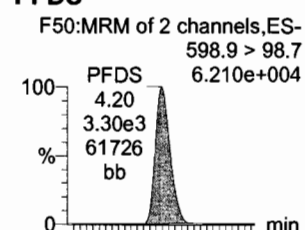
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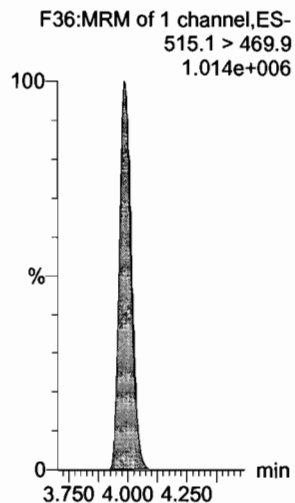
PFUnA



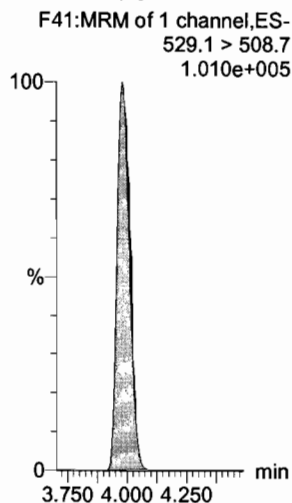
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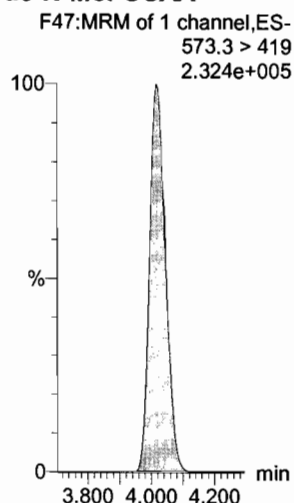
13C2-PFDA



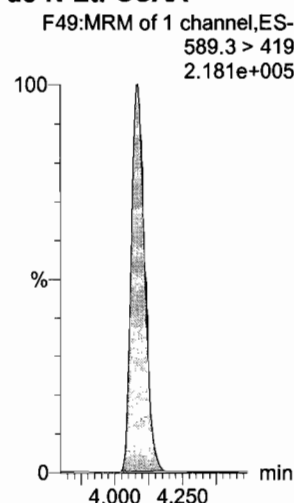
13C2-8:2 FTS



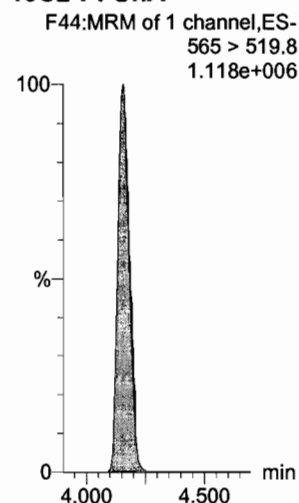
d3-N-MeFOSAA



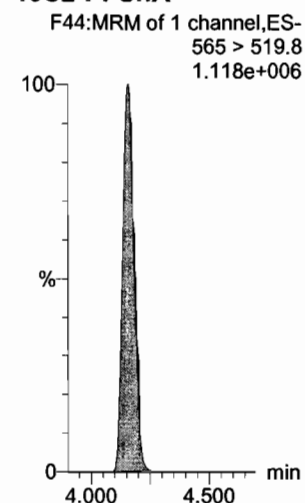
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13C2-PFUnA



13C2-PFUnA



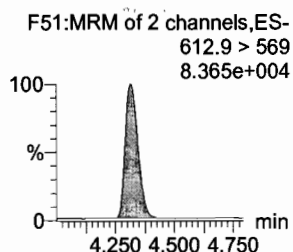
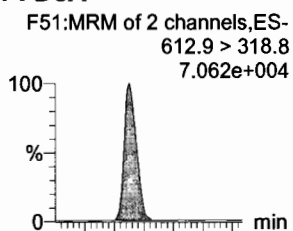
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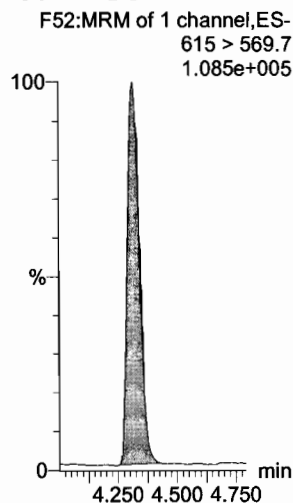
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Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

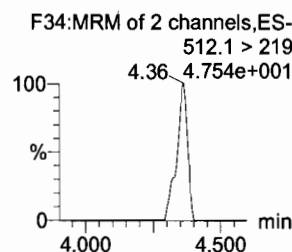
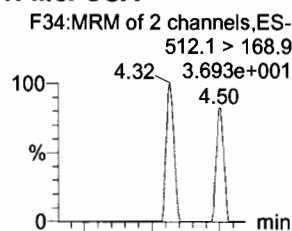
PFDaA



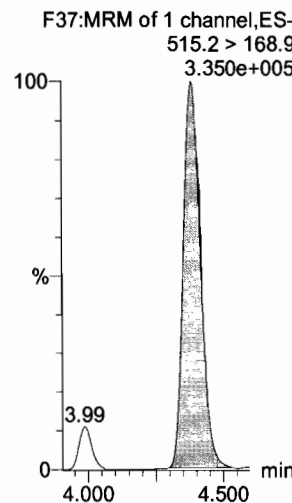
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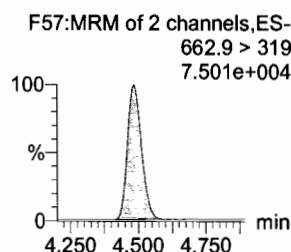
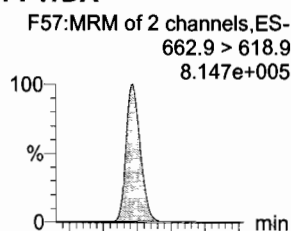
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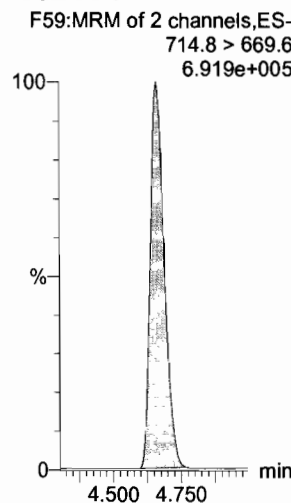
d3-N-MeFOSA



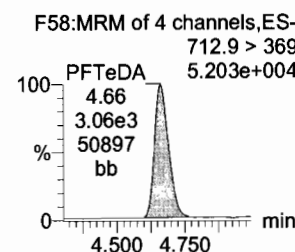
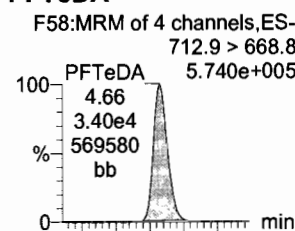
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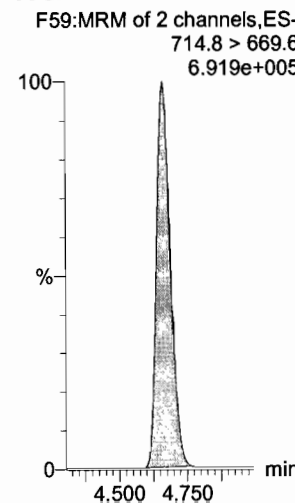
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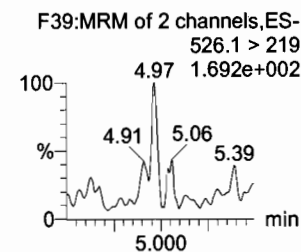
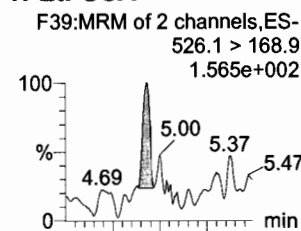
PFTeDA



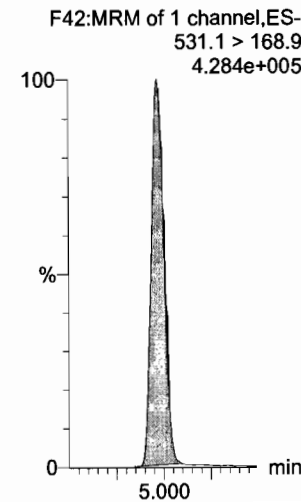
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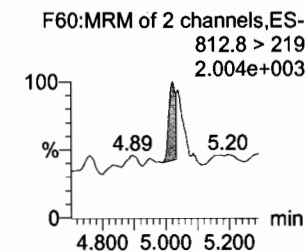
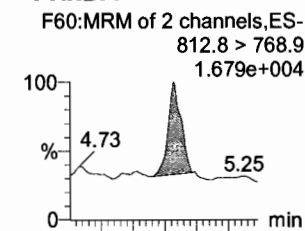
N-EtFOSA



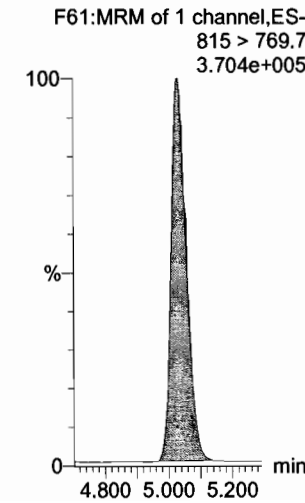
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PFHxDA



13C2-PFHxDA



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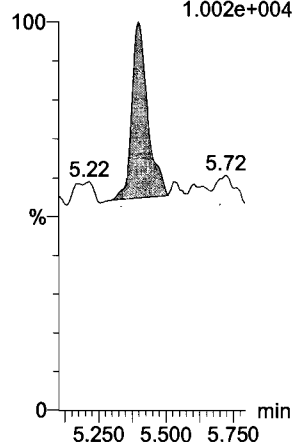
Last Altered: Tuesday, August 01, 2017 10:24:48 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:25:30 Pacific Daylight Time

Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

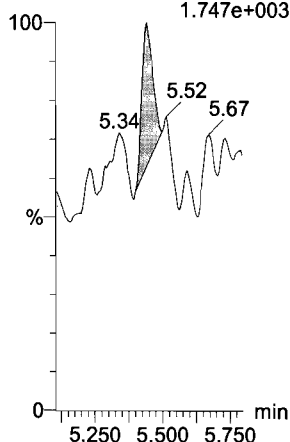
PFODA

F62:MRM of 4 channels,ES-
912.8 > 868.8
1.002e+004



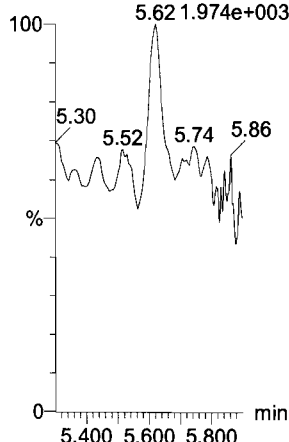
N-MeFOSE

F53:MRM of 1 channel,ES-
616.1 > 58.9
1.747e+003



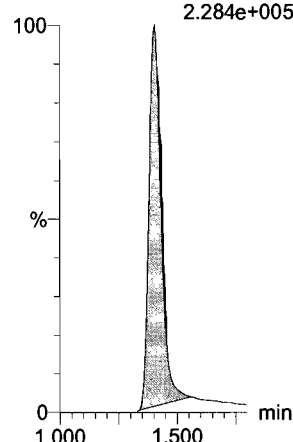
N-EtFOSE

F55:MRM of 1 channel,ES-
630.1 > 58.9
1.974e+003



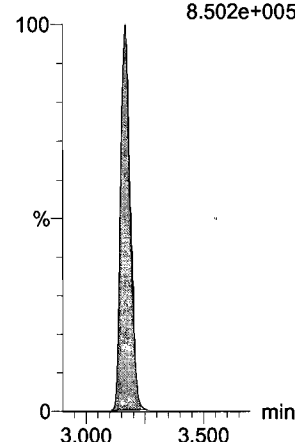
13C4-PFBA

F3:MRM of 1 channel,ES-
217 > 171.8
2.284e+005



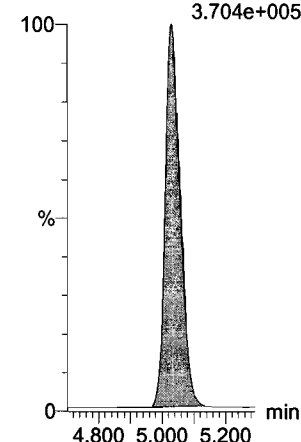
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
8.502e+005



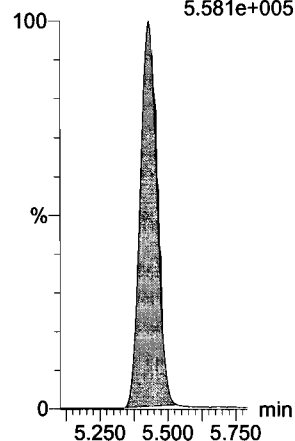
13C2-PFHxDA

F61:MRM of 1 channel,ES-
815 > 769.7
3.704e+005



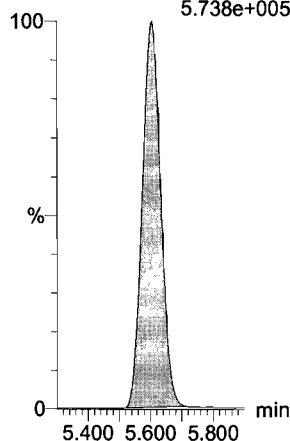
d7-N-MeFOSE

F54:MRM of 1 channel,ES-
623.1 > 58.9
5.581e+005



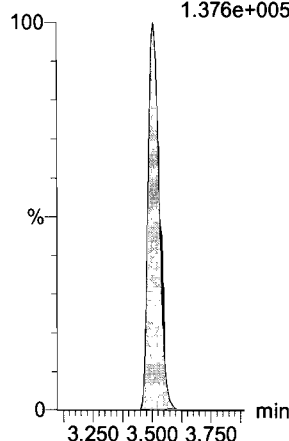
d9-N-EtFOSE

F56:MRM of 1 channel,ES-
639.2 > 58.8
5.738e+005



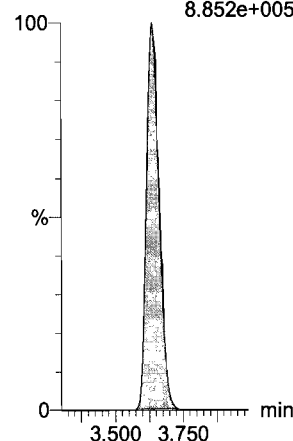
13C3-PFHxS

F17:MRM of 1 channel,ES-
401.9 > 79.9
1.376e+005



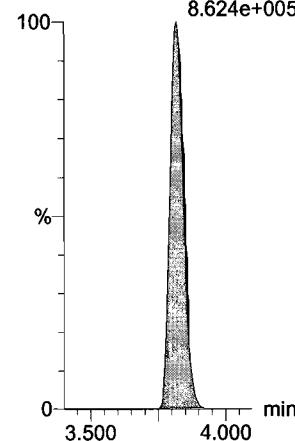
13C8-PFOA

F21:MRM of 1 channel,ES-
421.3 > 376
8.852e+005



13C9-PFNA

F27:MRM of 1 channel,ES-
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8.624e+005



Dataset: U:\Q4.PRO\results\170731M2\170731M2-13.qld

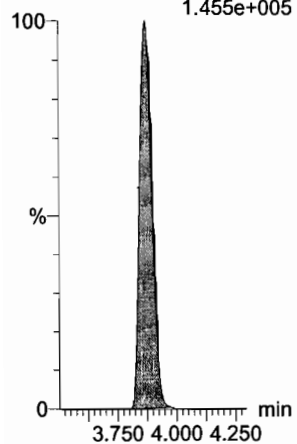
Last Altered: Tuesday, August 01, 2017 10:24:48 Pacific Daylight Time

Printed: Tuesday, August 01, 2017 10:25:30 Pacific Daylight Time

Name: 170731M2_13, Date: 01-Aug-2017, Time: 02:38:37, ID: SS170731M2-1 PFC SSS 17G3106, Description: PFC SSS 17G3106

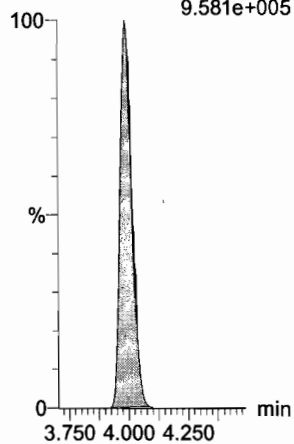
13C4-PFOS

F31:MRM of 1 channel,ES-
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1.455e+005



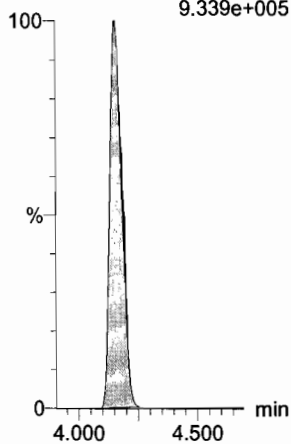
13C6-PFDA

F38:MRM of 1 channel,ES-
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9.581e+005



13C7-PFUnA

F46:MRM of 1 channel,ES-
570.1 > 524.8
9.339e+005



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PFTeDA","71.0","","IS","Yes","Y","","Y","","","PCT_REC","","","","100","71.0","71.0","","","","50","150"
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"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","375-73-
5","PFBS","4.19","","TRG","Yes","Y","J","Y","1.94","5.43","8.66","NG_L","NG_L","","","","50","150",""
","
"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","307-24-
4","PERFLUOROHEXANOIC ACID
(PFHXA)","8.79","","TRG","Yes","Y","","Y","2.36","5.43","8.66","NG_L","NG_L","","","","50","150",""
","
"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","375-85-
9","PERFLUOROHEPTANOIC ACID
(PFHPA)","3.60","","TRG","Yes","Y","J","Y","0.640","5.43","8.66","NG_L","NG_L","","","","50","150",""
","
"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","355-46-
4","PERFLUOROHEXANESULFONIC ACID
(PFHXS)","11.2","","TRG","Yes","Y","","Y","1.03","5.43","8.66","NG_L","NG_L","","","","50","150",""
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"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","335-67-
1","PERFLUOROOCCTANOIC ACID

","",""
"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","13C2-PFDA","13C2-PFDA","95.1","","IS","Yes","Y","","Y","","","PCT_REC","","","","100","95.1","95.1","","","","50","150",""
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"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","d3-MeFOSAA","d3-MeFOSAA","97.8","","IS","Yes","Y","","Y","","","PCT_REC","","","","100","97.8","97.8","","","","50","150","0",""
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"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","13C2-PFUnA","13C2-PFUnA","96.8","","IS","Yes","Y","","Y","","","PCT_REC","","","","100","96.8","96.8","","","","50","150",""
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"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","d5-EtFOSAA","d5-EtFOSAA","104","","IS","Yes","Y","","Y","","","PCT_REC","","","","100","104","104","","","","50","150",""
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"5-GW-05_DGMW41B-20170712","537_MOD","07/28/17","00:22","N","NA","000","13C2-PFDoA","13C2-PFDoA","103","","IS","Yes","Y","","Y","","","PCT_REC","","","","100","103","103","","","","50","150",""
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"5-GW-05_DGMW41B-20170712","537_MOD","07/31/17","16:15","N","NA","000","13C2-PFTeDA","13C2-PFTeDA","55.3","","IS","Yes","Y","","Y","","","PCT_REC","","","","100","55.3","55.3","","","","50","150",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","375-73-5","PFBS","","","TRG","Yes","N","U","Y","1.90","5.30","8.50","NG_L","NG_L","","","","","","","","","",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","307-24-4","PERFLUOROHEXANOIC ACID (PFHXA)","7.61","","TRG","Yes","Y","J","Y","2.32","5.30","8.50","NG_L","NG_L","","","","","","","","",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID (PFHPA)","","","TRG","Yes","N","U","Y","0.628","5.30","8.50","NG_L","NG_L","","","","","","","","",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","355-46-4","PERFLUOROHEXANESULFONIC ACID (PFHXS)","2.38","","TRG","Yes","Y","J","Y","1.01","5.30","8.50","NG_L","NG_L","","","","","","","","",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","335-67-1","PERFLUOROOCTANOIC ACID (PFOA)","3.53","","TRG","Yes","Y","J","Y","0.692","5.30","8.50","NG_L","NG_L","","","","","","","","",""
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"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","1763-23-1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION","","","TRG","Yes","N","U","Y","0.857","5.30","8.50","NG_L","NG_L","","","","","","","","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","375-95-1","PERFLUORONONANOIC ACID (PFNA)","","","TRG","Yes","N","U","Y","0.861","5.30","8.50","NG_L","NG_L","","","","","","","","",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","335-76-2","PERFLUORODECANOIC ACID (PFDA)","","","TRG","Yes","N","U","Y","1.58","5.30","8.50","NG_L","NG_L","","","","","","","","",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","2355-31-9","MeFOSAA","","","TRG","Yes","N","U","Y","1.75","5.30","8.50","NG_L","NG_L","","","","","","","","",""
","",""
"18-GW-18BGM03E-20170712","537_MOD","07/28/17","00:33","N","NA","000","2058-94-8","PERFLUOROUNDECANOIC ACID

PFHxA","115","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","115","115","","","","","50","150","","
","",""
"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","13C4-PFHpA","13C4-
PFHpA","112","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","112","112","","","","","50","150","","
","",""
"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","18O2-PFHxS","18O2-
PFHxS","119","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","119","119","","","","","50","150","","
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"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","13C2-PFOA","13C2-
PFOA","108","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","108","108","","","","","50","150","","
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"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","13C8-PFOS","13C8-
PFOS","107","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","107","107","","","","","50","150","","
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"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","13C5-PFNA","13C5-
PFNA","110","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","110","110","","","","","50","150","","
","",""
"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","13C2-PFDA","13C2-
PFDA","94.0","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","94.0","94.0","","","","","50","150",""
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"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","d3-MeFOSAA","d3-
MeFOSAA","111","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","111","111","","","","","50","150"
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"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","13C2-PFUnA","13C2-
PFUnA","101","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","101","101","","","","","50","150",""
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"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","d5-EtFOSAA","d5-
EtFOSAA","86.2","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","86.2","86.2","","","","","50","150"
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"24-GW-24IN03-20170712","537_MOD","07/28/17","00:44","N","NA","000","13C2-PFDoA","13C2-
PFDoA","98.9","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","98.9","98.9","","","","","50","150",""
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"24-GW-24IN03-20170712","537_MOD","07/31/17","16:36","N","NA","000","13C2-PFTeDA","13C2-
PFTeDA","3.50","","IS","Yes","Y","H","Y","","","","PCT_REC","","","","","100","3.50","3.50","","","","","50","15
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"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","375-73-
5","PFBS","9.66","","TRG","Yes","Y","","Y","1.90","5.30","8.47","NG_L","NG_L","","","","","","","","",""
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"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","307-24-4","PERFLUOROHEXANOIC ACID
(PFHXA)","44.7","","TRG","Yes","Y","","Y","2.31","5.30","8.47","NG_L","NG_L","","","","","","","","",""
","",""
"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID
(PFHPA)","6.96","","TRG","Yes","Y","J","Y","0.626","5.30","8.47","NG_L","NG_L","","","","","","","","",""
","",""
"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","355-46-
4","PERFLUOROHEXANESULFONIC ACID
(PFHXS)","17.6","","TRG","Yes","Y","","Y","1.00","5.30","8.47","NG_L","NG_L","","","","","","","","",""
","",""
"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","335-67-1","PERFLUOROOCCTANOIC ACID
(PFOA)","42.7","","TRG","Yes","Y","","Y","0.689","5.30","8.47","NG_L","NG_L","","","","","","","","",""
","",""
"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","1763-23-
1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION
","","","TRG","Yes","N","U","Y","0.854","5.30","8.47","NG_L","NG_L","","","","","","","","",""
","",""

PFUnA","86.4","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","86.4","86.4","","","","","50","150","
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"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","d5-EtFOSAA","d5-
EtFOSAA","85.0","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","85.0","85.0","","","","50","150"
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"DUP02-20170712","537_MOD","07/28/17","00:54","N","NA","000","13C2-PFDoA","13C2-
PFDoA","104","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","104","104","","","","50","150",""
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"DUP02-20170712","537_MOD","07/31/17","16:48","N","NA","000","13C2-PFTeDA","13C2-
PFTeDA","19.3","","IS","Yes","Y","H","Y","","","","PCT_REC","","","","","100","19.3","19.3","","","","50","15
0","","*",""
"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","375-73-
5","PFBS","200","","TRG","Yes","Y","","Y","1.89","5.25","8.44","NG_L","NG_L","","","","","","","","",""
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"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","307-24-
4","PERFLUOROHEXANOIC ACID
(PFHXA)","439","","TRG","Yes","Y","","Y","2.30","5.25","8.44","NG_L","NG_L","","","","","","","","",""
","",""
"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","375-85-
9","PERFLUOROHEPTANOIC ACID
(PFHPA)","64.0","","TRG","Yes","Y","","Y","0.623","5.25","8.44","NG_L","NG_L","","","","","","","","",""
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"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","355-46-
4","PERFLUOROHEXANESULFONIC ACID
(PFHXS)","235","","TRG","Yes","Y","","Y","0.999","5.25","8.44","NG_L","NG_L","","","","","","","","",""
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"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","335-67-
1","PERFLUOROOCCTANOIC ACID
(PFOA)","77.6","","TRG","Yes","Y","","Y","0.687","5.25","8.44","NG_L","NG_L","","","","","","","","",""
","",""
"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","1763-23-
1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION
","1.88","","TRG","Yes","Y","J","Y","0.851","5.25","8.44","NG_L","NG_L","","","","","","","","",""
",""
"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","375-95-
1","PERFLUORONONANOIC ACID
(PFNA)","","","TRG","Yes","N","U","Y","0.854","5.25","8.44","NG_L","NG_L","","","","","","","","",""
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"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","335-76-
2","PERFLUORODECANOIC ACID
(PFDA)","","","TRG","Yes","N","U","Y","1.57","5.25","8.44","NG_L","NG_L","","","","","","","","",""
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"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","2355-31-
9","MeFOSAA","","","TRG","Yes","N","U","Y","1.74","5.25","8.44","NG_L","NG_L","","","","","","","","",""
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"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","2058-94-
8","PERFLUOROUNDECANOIC ACID
(PFUNA)","","","TRG","Yes","N","U","Y","1.11","5.25","8.44","NG_L","NG_L","","","","","","","","",""
",""
"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","2991-50-
6","EtFOSAA","","","TRG","Yes","N","U","Y","1.45","5.25","8.44","NG_L","NG_L","","","","","","","","",""
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"24-GW-24EX13A-20170712","537_MOD","07/28/17","01:05","N","NA","000","307-55-
1","PERFLUORODODECANOIC ACID

"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID (PFHPA)","20.4","","TRG","Yes","Y","","Y","0.619","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","355-46-4","PERFLUOROHEXANESULFONIC ACID (PFHXS)","70.8","","TRG","Yes","Y","","Y","0.992","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","335-67-1","PERFLUOROOCTANOIC ACID (PFOA)","141","","TRG","Yes","Y","","Y","0.682","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","1763-23-1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION","","","TRG","Yes","N","U","Y","0.846","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","375-95-1","PERFLUORONONANOIC ACID (PFNA)","","","TRG","Yes","N","U","Y","0.849","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","335-76-2","PERFLUORODECANOIC ACID (PFDA)","","","TRG","Yes","N","U","Y","1.56","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","2355-31-9","MeFOSAA","","","TRG","Yes","N","U","Y","1.73","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","2058-94-8","PERFLUOROUNDECANOIC ACID (PFUNA)","","","TRG","Yes","N","U","Y","1.10","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","2991-50-6","EtFOSAA","","","TRG","Yes","N","U","Y","1.44","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","307-55-1","PERFLUORODODECANOIC ACID (PFDOA)","","","TRG","Yes","N","U","Y","0.830","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/31/17","17:09","N","NA","000","72629-94-8","PFTTrDA","","","TRG","Yes","N","U","Y","0.518","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/31/17","17:09","N","NA","000","376-06-7","PFTeDA","","","TRG","Yes","N","U","Y","0.791","5.25","8.38","NG_L","NG_L","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","13C3-PFBS","13C3-PFBS","118","","IS","Yes","Y","","Y","","","","","PCT_REC","","","","","100","118","118","","","","","50","150","","","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","13C2-PFHxA","13C2-PFHxA","107","","IS","Yes","Y","","Y","","","","","PCT_REC","","","","","100","107","107","","","","","50","150","","","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","13C4-PFHpA","13C4-PFHpA","105","","IS","Yes","Y","","Y","","","","","PCT_REC","","","","","100","105","105","","","","","50","150","","","
"24-GW-24MW15D-20170712","537_MOD","07/28/17","01:16","N","NA","000","18O2-PFHxS","18O2-PFHxS","97.8","","IS","Yes","Y","","Y","","","","","PCT_REC","","","","","100","97.8","97.8","","","","","50","150",""

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"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "13C2-PFOA", "13C2-PFOA", "105", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "105", "105", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "13C8-PFOS", "13C8-PFOS", "107", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "107", "107", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "13C5-PFNA", "13C5-PFNA", "114", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "114", "114", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "13C2-PFDA", "13C2-PFDA", "86.7", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "86.7", "86.7", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "d3-MeFOSAA", "d3-MeFOSAA", "105", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "105", "105", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "13C2-PFUnA", "13C2-PFUnA", "92.9", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "92.9", "92.9", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "d5-EtFOSAA", "d5-EtFOSAA", "102", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "102", "102", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/28/17", "01:16", "N", "NA", "000", "13C2-PFDoA", "13C2-PFDoA", "121", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "121", "121", "", "", "", "50", "150", "", ""
"24-GW-24MW15D-20170712", "537_MOD", "07/31/17", "17:09", "N", "NA", "000", "13C2-PFTeDA", "13C2-PFTeDA", "59.6", "", "IS", "Yes", "Y", "", "Y", "", "", "", "PCT_REC", "", "", "", "100", "59.6", "59.6", "", "", "", "50", "150", "", ""
"16-GW-16_MW28-20170712", "537_MOD", "07/28/17", "01:58", "N", "NA", "000", "375-73-5", "PFBS", "149", "", "TRG", "Yes", "Y", "", "Y", "1.88", "5.25", "8.40", "NG_L", "NG_L", "", "", "", "50", "150", "", ""
"16-GW-16_MW28-20170712", "537_MOD", "07/28/17", "01:58", "N", "NA", "000", "307-24-4", "PERFLUOROHEXANOIC ACID (PFHXA)", "404", "", "TRG", "Yes", "Y", "", "Y", "2.29", "5.25", "8.40", "NG_L", "NG_L", "", "", "", "50", "150", "", ""
"16-GW-16_MW28-20170712", "537_MOD", "07/28/17", "01:58", "N", "NA", "000", "375-85-9", "PERFLUOROHEPTANOIC ACID (PFHPA)", "0.887", "", "TRG", "Yes", "Y", "J", "Y", "0.621", "5.25", "8.40", "NG_L", "NG_L", "", "", "", "50", "150", "", ""
"16-GW-16_MW28-20170712", "537_MOD", "07/28/17", "01:58", "N", "NA", "000", "355-46-4", "PERFLUOROHEXANESULFONIC ACID (PFHXS)", "", "", "TRG", "Yes", "N", "U", "Y", "0.995", "5.25", "8.40", "NG_L", "NG_L", "", "", "", "50", "150", "", ""
"16-GW-16_MW28-20170712", "537_MOD", "07/28/17", "01:58", "N", "NA", "000", "335-67-1", "PERFLUOROOCTANOIC ACID (PFOA)", "", "", "TRG", "Yes", "N", "U", "Y", "0.684", "5.25", "8.40", "NG_L", "NG_L", "", "", "", "50", "150", "", ""
"16-GW-16_MW28-20170712", "537_MOD", "07/28/17", "01:58", "N", "NA", "000", "1763-23-1", "HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION", "", "", "TRG", "Yes", "N", "U", "Y", "0.848", "5.25", "8.40", "NG_L", "NG_L", "", "", "", "50", "150", "", ""
"16-GW-16_MW28-20170712", "537_MOD", "07/28/17", "01:58", "N", "NA", "000", "375-95-1", "PERFLUORONONANOIC ACID (PFNA)", "", "", "TRG", "Yes", "N", "U", "Y", "0.851", "5.25", "8.40", "NG_L", "NG_L", "", "", "", "50", "150", "", ""

"16-GW-16_MW28-20170712","537_MOD","07/28/17","01:58","N","NA","000","d5-EtFOSAA","d5-EtFOSAA","101","","IS","Yes","Y","","Y","","","PCT_REC","","","100","101","101","","","50","150",
"16-GW-16_MW28-20170712","537_MOD","07/28/17","01:58","N","NA","000","13C2-PFDoA","13C2-PFDoA","100","","IS","Yes","Y","","Y","","","PCT_REC","","","100","100","100","","","50","150",
"16-GW-16_MW28-20170712","537_MOD","07/31/17","17:20","N","NA","000","13C2-PFTeDA","13C2-PFTeDA","87.2","","IS","Yes","Y","","Y","","","PCT_REC","","","100","87.2","87.2","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","375-73-5","PFBS","163","","TRG","Yes","Y","","Y","1.88","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","307-24-4","PERFLUOROHEXANOIC ACID (PFHXA)","50.2","","TRG","Yes","Y","","Y","2.29","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID (PFHPA)","5.33","","TRG","Yes","Y","J","Y","0.620","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","355-46-4","PERFLUOROHEXANESULFONIC ACID (PFHXS)","21.6","","TRG","Yes","Y","","Y","0.994","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","335-67-1","PERFLUOROOCTANOIC ACID (PFOA)","","","TRG","Yes","N","U","Y","0.683","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","1763-23-1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION","2.21","","TRG","Yes","Y","J","Y","0.847","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","375-95-1","PERFLUORONONANOIC ACID (PFNA)","","","TRG","Yes","N","U","Y","0.850","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","335-76-2","PERFLUORODECANOIC ACID (PFDA)","","","TRG","Yes","N","U","Y","1.56","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","2355-31-9","MeFOSAA","","","TRG","Yes","N","U","Y","1.73","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","2058-94-8","PERFLUOROUNDECANOIC ACID (PFUNA)","","","TRG","Yes","N","U","Y","1.10","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","2991-50-6","EtFOSAA","","","TRG","Yes","N","U","Y","1.44","5.25","8.39","NG_L","NG_L","","","50","150",
"16-GW-16_MW19-20170712","537_MOD","07/28/17","02:09","N","NA","000","307-55-1","PERFLUORODODECANOIC ACID (PFDOA)","","","TRG","Yes","N","U","Y","0.831","5.25","8.39","NG_L","NG_L","","","50","150",

PFNA","97.4","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","97.4","97.4","","","","","50","150",""
","EB04-20170713","537_MOD","07/28/17","02:20","N","NA","000","13C2-PFDA","13C2-
PFDA","90.8","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","90.8","90.8","","","","50","150",""
","EB04-20170713","537_MOD","07/28/17","02:20","N","NA","000","d3-MeFOSAA","d3-
MeFOSAA","94.0","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","94.0","94.0","","","","50","15
0","","EB04-20170713","537_MOD","07/28/17","02:20","N","NA","000","13C2-PFUnA","13C2-
PFUnA","87.8","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","87.8","87.8","","","","50","150",""
","EB04-20170713","537_MOD","07/28/17","02:20","N","NA","000","d5-EtFOSAA","d5-
EtFOSAA","90.1","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","90.1","90.1","","","","50","150
","EB04-20170713","537_MOD","07/28/17","02:20","N","NA","000","13C2-PFDoA","13C2-
PFDoA","62.2","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","62.2","62.2","","","","50","150",""
","EB04-20170713","537_MOD","07/31/17","17:41","N","NA","000","13C2-PFTeDA","13C2-
PFTeDA","29.2","","IS","Yes","Y","H","Y","","","","PCT_REC","","","","","100","29.2","29.2","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","08/03/17","17:49","N","NA","DL1","375-73-
5","PFBS","3280","","TRG","Yes","Y","D","Y","9.29","26.0","41.5","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","08/03/17","17:49","N","NA","DL1","307-24-
4","PERFLUOROHEXANOIC ACID
(PFHXA)","2550","","TRG","Yes","Y","D","Y","11.3","26.0","41.5","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","375-85-
9","PERFLUOROHEPTANOIC ACID
(PFHPA)","","","TRG","Yes","N","U","Y","0.613","5.21","8.30","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","355-46-
4","PERFLUOROHEXANESULFONIC ACID
(PFHXS)","","","TRG","Yes","N","U","Y","0.983","5.21","8.30","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","335-67-
1","PERFLUOROOCTANOIC ACID
(PFOA)","","","TRG","Yes","N","U","Y","0.676","5.21","8.30","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","1763-23-
1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION
","","","TRG","Yes","N","U","Y","0.838","5.21","8.30","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","375-95-
1","PERFLUORONONANOIC ACID
(PFNA)","","","TRG","Yes","N","U","Y","0.841","5.21","8.30","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","335-76-
2","PERFLUORODECANOIC ACID
(PFDA)","","","TRG","Yes","N","U","Y","1.55","5.21","8.30","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","2355-31-
9","MeFOSAA","","","TRG","Yes","N","U","Y","1.71","5.21","8.30","NG_L","NG_L","","","","50","15
0","","16-GW-16_MW04-20170713","537_MOD","07/28/17","02:31","N","NA","000","2058-94-

"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","18O2-PFHxS","18O2-PFHxS","105","","IS","Yes","Y","","Y","","","PCT_REC","","","100","105","105","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","13C2-PFOA","13C2-PFOA","105","","IS","Yes","Y","","Y","","","PCT_REC","","","100","105","105","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","13C8-PFOS","13C8-PFOS","113","","IS","Yes","Y","","Y","","","PCT_REC","","","100","113","113","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","13C5-PFNA","13C5-PFNA","105","","IS","Yes","Y","","Y","","","PCT_REC","","","100","105","105","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","13C2-PFDA","13C2-PFDA","95.9","","IS","Yes","Y","","Y","","","PCT_REC","","","100","95.9","95.9","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","d3-MeFOSAA","d3-MeFOSAA","95.2","","IS","Yes","Y","","Y","","","PCT_REC","","","100","95.2","95.2","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","13C2-PFUnA","13C2-PFUnA","95.3","","IS","Yes","Y","","Y","","","PCT_REC","","","100","95.3","95.3","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","d5-EtFOSAA","d5-EtFOSAA","85.0","","IS","Yes","Y","","Y","","","PCT_REC","","","100","85.0","85.0","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/27/17","21:08","N","NA","000","13C2-PFDoA","13C2-PFDoA","113","","IS","Yes","Y","","Y","","","PCT_REC","","","100","113","113","","","50","150","","","
"B7G0067-BLK1","537_MOD","07/31/17","12:52","N","NA","000","13C2-PFTeDA","13C2-PFTeDA","57.9","","IS","Yes","Y","","Y","","","PCT_REC","","","100","57.9","57.9","","","50","150","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","375-73-5","PFBS","37.1","","TRG","Yes","Y","","Y","0.895","2.50","4.00","NG_L","NG_L","","","40.0","37.1","92.8","","","70","130","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","307-24-4","PERFLUOROHEXANOIC ACID (PFHXA)","37.3","","TRG","Yes","Y","","Y","1.09","2.50","4.00","NG_L","NG_L","","","40.0","37.3","93.3","","","70","130","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","375-85-9","PERFLUOROHEPTANOIC ACID (PFHPA)","38.3","","TRG","Yes","Y","","Y","0.296","2.50","4.00","NG_L","NG_L","","","40.0","38.3","95.8","","","70","130","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","355-46-4","PERFLUOROHEXANESULFONIC ACID (PFHXS)","39.0","","TRG","Yes","Y","","Y","0.474","2.50","4.00","NG_L","NG_L","","","40.0","39.0","97.5","","","70","130","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","335-67-1","PERFLUOROOCTANOIC ACID (PFOA)","41.6","","TRG","Yes","Y","","Y","0.326","2.50","4.00","NG_L","NG_L","","","40.0","41.6","104","","","70","130","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","1763-23-1","HEPTADEC AFLUOROACTANESULFONIC ACID SOLUTION","37.6","","TRG","Yes","Y","","Y","0.404","2.50","4.00","NG_L","NG_L","","","40.0","37.6","93.9","","","70","130","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","375-95-1","PERFLUORONONANOIC ACID (PFNA)","38.7","","TRG","Yes","Y","","Y","0.405","2.50","4.00","NG_L","NG_L","","","40.0","38.7","96.7","","","70","130","","","
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","335-76-2","PERFLUORODECANOIC ACID

(PFDA),"40.7","","TRG","Yes","Y","","Y","0.745","2.50","4.00","NG_L","NG_L","","","","40.0","40.7","102","","","
","","","70","130","","","",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","2355-31-
9","MeFOSAA","40.2","","TRG","Yes","Y","","Y","0.825","2.50","4.00","NG_L","NG_L","","","","40.0","40.2","100
","","","70","130","","",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","2058-94-8","PERFLUOROUNDECANOIC ACID
(PFUNA)","41.8","","TRG","Yes","Y","","Y","0.525","2.50","4.00","NG_L","NG_L","","","","40.0","41.8","105","",""
","","","70","130","","",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","2991-50-
6","EtFOSAA","38.9","","TRG","Yes","Y","","Y","0.685","2.50","4.00","NG_L","NG_L","","","","40.0","38.9","97.2"
","","","70","130","","",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","307-55-1","PERFLUORODODECANOIC ACID
(PFDOA)","35.7","","TRG","Yes","Y","","Y","0.396","2.50","4.00","NG_L","NG_L","","","","40.0","35.7","89.4","",""
","","","70","130","","",""
"B7G0067-BS1","537_MOD","07/31/17","12:31","N","NA","000","72629-94-
8","PFTTrDA","36.9","","TRG","Yes","Y","","Y","0.247","2.50","4.00","NG_L","NG_L","","","","40.0","36.9","92.1",""
","","","60","130","","",""
"B7G0067-BS1","537_MOD","07/31/17","12:31","N","NA","000","376-06-
7","PFTeDA","41.3","","TRG","Yes","Y","","Y","0.378","2.50","4.00","NG_L","NG_L","","","","40.0","41.3","103",""
","","","70","130","","",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C3-PFBS","13C3-
PFBS","118","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","118","118","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C2-PFHxA","13C2-
PFHxA","119","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","119","119","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C4-PFHpA","13C4-
PFHpA","112","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","112","112","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","18O2-PFHxS","18O2-
PFHxS","116","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","116","116","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C2-PFOA","13C2-
PFOA","112","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","112","112","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C8-PFOS","13C8-
PFOS","127","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","127","127","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C5-PFNA","13C5-
PFNA","105","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","105","105","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C2-PFDA","13C2-
PFDA","87.8","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","87.8","87.8","","","","50","150","",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","d3-MeFOSAA","d3-
MeFOSAA","81.4","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","81.4","81.4","","","","50","15
0","",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C2-PFUnA","13C2-
PFUnA","83.5","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","83.5","83.5","","","","50","150",""
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","d5-EtFOSAA","d5-
EtFOSAA","82.5","","IS","Yes","Y","","Y","","","","PCT_REC","","","","100","82.5","82.5","","","","50","150
",""
"B7G0067-BS1","537_MOD","07/27/17","21:29","N","NA","000","13C2-PFDoA","13C2-

PFD0A","99.6","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","99.6","99.6","","","","","50","150","
","",""
"B7G0067-BS1","537_MOD","07/31/17","12:31","N","NA","000","13C2-PFTeDA","13C2-
PFTeDA","60.2","","IS","Yes","Y","","Y","","","","PCT_REC","","","","","100","60.2","60.2","","","","50","150"
","",""



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AMEC Foster Wheeler, Inc.
7376 SW Durham Road
Portland, OR 97224
Attn: Ms. Marina Mitchell

August 29, 2017

SUBJECT: Revised MCAS El Toro, BRAC PFAs, Data Validation

Dear Ms. Mitchell,

Enclosed are the revised validation reports for the fraction listed below. Please replace the previously submitted reports with the enclosed revised reports

LDC Project #39234:

SDG #

Fraction

1700852, 1700851, 1700871

Perfluorinated Alkyl Acids

- Revision: Change in IS section.

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
Project Manager/Senior Chemist



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AMEC Foster Wheeler, Inc.
7376 SW Durham Road
Portland, OR 97224
Attn: Ms. Marina Mitchell

August 18, 2017

SUBJECT: MCAS El Toro, BRAC PFAs, Data Validation

Dear Ms. Mitchell,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on August 9, 2017. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #39234:

SDG #

Fraction

1700852, 1700851, 1700871

Perfluorinated Alkyl Acids

The data validation was performed under Stage 2B & 4 guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Sampling and Analysis Plan, Field Sampling Plan and Quality Assurance Project Plan for Initial Assessment of Per-Fluorinated Compounds or Per- and Polyfluoroalkyl Substances, Sites at Various Base Realignment and Closure Installations, March 2017
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.1, 2017
- USEPA, National Functional Guidelines for Superfund Organic Methods Data Review, August 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
Project Manager/Senior Chemist

Client Select / Stage 2B/4 LDC #39234 (AMEC Foster Wheeler - San Diego, CA / MCAS El Toro, BRAC PFAs)

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: MCAS El Toro, BRAC PFAs

LDC Report Date: August 14, 2017

Parameters: Perfluorinated Alkyl Acids

Validation Level: Stage 2B/4

Laboratory: Vista Analytical Laboratory

Sample Delivery Group (SDG): 1700852

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
DUP01-20170711	1700852-02	Water	07/11/17
1-GW-01-MW204-20170711	1700852-03	Water	07/11/17
1-GW-01-MW206-20170711	1700852-04	Water	07/11/17
2-GW-02DGMW59-20170711	1700852-05	Water	07/11/17
2-GW-02NEW16-20170711	1700852-06	Water	07/11/17
5-GW-05-DGMW68A-20170711**	1700852-07**	Water	07/11/17
1-GW-01-PZ20-20170711	1700852-08	Water	07/11/17
1-GW-01-MW209-20170711	1700852-09	Water	07/11/17
1-GW-01-MW204-20170711MS	1700852-03MS	Water	07/11/17
1-GW-01-MW204-20170711MSD	1700852-03MSD	Water	07/11/17

**Indicates sample underwent Stage 4 validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Sampling and Analysis Plan (Field Sampling Plan and Quality Assurance Project Plan) for Initial Assessment of Per-Fluorinated Compounds (PFCS) or Per- and Polyfluoroalkyl Substances (PFAS) Sites at Various Base Realignment and Closure (BRAC) Installations (March 2017), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Superfund Organic Methods Data Review (August 2014). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Perfluorinated Alkyl Acids by Environmental Protection Agency (EPA) Method 537

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Stage 4 data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NJ (Presumptive and Estimated): The analysis indicates the presence of a compound or analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance was not required by the method.

III. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

For each calibration point, the percent differences (%D) of its true value were less than or equal to 30.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample EB 2_20170711 was identified as an equipment blank. No contaminants were found.

Sample SB01_20170710 (from SDG 1700851) was identified as a source blank. No contaminants were found.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
1-GW-01-MW204-20170711MS/MSD (1-GW-01-MW204-20170711)	PFHxS	65.8 (70-130)	-	J (all detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
1-GW-01-MW204-20170711MS/MSD (1-GW-01-MW204-20170711)	PFHxS	35.7 (≤ 30)	J (all detects)	A

VIII. Ongoing Precision Recovery Samples

Ongoing precision recovery (OPR) samples were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples DUP01-20170711 and 1-GW-01-PZ20-20170711 were identified as field duplicates. No results were detected in any of the samples.

X. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
DUP01-20170711	13C3-PFBS	152 (50-150)	PFBS	UJ (all non-detects)	P
1-GW-01-MW204-20170711	13C3- PFBS	154 (50-150)	PFBS	J (all detects)	P
1-GW-01-MW206-20170711	13C3- PFBS	162 (50-150)	PFBS	UJ (all non-detects)	P
2-GW-02DGMW59-20170711	13C3- PFBS	163 (50-150)	PFBS	J (all detects)	P
5-GW-05-DGMW68A-20170711**	13C3- PFBS	152 (50-150)	PFBS	J (all detects)	P

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
1-GW-01-PZ20-20170711	13C3- PFBS	152 (50-150)	PFBS	UJ (all non-detects)	P
1-GW-01-MW209-20170711	13C3- PFBS	151 (50-150)	PFBS	J (all detects)	P

XI. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation.

The laboratory limit of quantitation (LOQ) and limit of detection (LOD) are higher than the QAPP LOQ and LOD.

The laboratory detection limit (DL) for PFOS is higher than the QAPP DL.

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and RPD and internal standards %R, data were qualified as estimated in seven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

MCAS EI Toro, BRAC PFAs
Perfluorinated Alkyl Acids - Data Qualification Summary - SDG 1700852

Sample	Compound	Flag	A or P	Reason
1-GW-01-MW204-20170711	PFHxS	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD)
DUP01-20170711 1-GW-01-MW204-20170711 1-GW-01-MW206-20170711 2-GW-02DGMW59-20170711 5-GW-05-DGMW68A-20170711** 1-GW-01-PZ20-20170711 1-GW-01-MW209-20170711	PFBS	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

MCAS EI Toro, BRAC PFAs
Perfluorinated Alkyl Acids - Laboratory Blank Data Qualification Summary - SDG 1700852

No Sample Data Qualified in this SDG

MCAS EI Toro, BRAC PFAs
Perfluorinated Alkyl Acids - Field Blank Data Qualification Summary - SDG 1700852

No Sample Data Qualified in this SDG

LDC #: 39234A96

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1700852

Stage 2B/4

Laboratory: Vista Analytical Laboratory

Date: 8/11/17

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: KR

METHOD: LCMS Perfluorinated Alkyl Acids (EPA Method 537)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	ALA	RSO ≤ 20%. Y ² . %D ≤ 30%. ICV ≤ 30%
IV.	Continuing calibration	A	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	EB = 1. SB 01-20170710 (1700851)
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	TW	
IX.	Laboratory control samples	A	OPR
X.	Field duplicates	ND	D = 2 + 8
XI.	Internal standards	TW	
XII.	Compound quantitation RL/LOQ/LODs	TW	Not reviewed for Stage 2B validation
XIII.	Target compound identification	A	Not reviewed for Stage 2B validation
XIV.	System performance	A	Not reviewed for Stage 2B validation
XV.	Overall assessment of data	D	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

** Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	EB 2-20170711	1700852-01	Water	07/11/17
2	DUP01-20170711	1700852-02	Water	07/11/17
3	1-GW-01-MW204-20170711	1700852-03	Water	07/11/17
4	1-GW-01-MW206-20170711	1700852-04	Water	07/11/17
5	2-GW-02DGMW59-20170711	1700852-05	Water	07/11/17
6	2-GW-02NEW16-20170711	1700852-06	Water	07/11/17
7	5-GW-05-DGMW68A-20170711**	1700852-07**	Water	07/11/17
8	1-GW-01-PZ20-20170711	1700852-08	Water	07/11/17
9	1-GW-01-MW209-20170711	1700852-09	Water	07/11/17
10	1-GW-01-MW204-20170711MS	1700852-03MS	Water	07/11/17
11	1-GW-01-MW204-20170711MSD	1700852-03MSD	Water	07/11/17
12				
13	BT010T-BK/			

Method: LCMS (EPA Method 537)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was cooler temperature criteria met?	☒	☐	☐	
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit criteria of ≥ 0.990 ?	☒	☐	☐	
Were all analytes within 70-130% or percent differences (%D) $\leq 30\%$ of their true value for each calibration standard	☒	☐	☐	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	☒	☐	☐	
Were all percent differences (%D) < 30%?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) of the continuing calibration $\leq 30\%$?	☒	☐	☐	
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Field blanks				
Were field blanks identified in this SDG?	☒	☐	☐	
Were target compounds detected in the field blanks?	☐	☒	☐	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☒	☐	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	

LDC #: SP-34A96

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JK
2nd Reviewer: KK

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	☒	☐	☐	
Were target compounds detected in the field duplicates?	☐	☒	☐	
XI. Internal standards				
Were internal standard area counts within <u>9.15070</u> $\pm 50\%$ of the associated calibration standard?	☒	☒	☐	
XII. Compound quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
XIV. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates/Duplicates

METHOD: LC/MS PFOS/PFOAs (EPA Method 537M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) or duplicate sample analyzed for each matrix in this SDG?

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y(N)N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

Y ~~N~~ ~~N/A~~ Were all duplicate sample relative percent differences (RPD) or differences within QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET

Internal Standards

METHOD: LC/MS PFCs

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y/N N/A Were all internal standard area counts within 50-150% limits?

(Y)	N	N/A
	Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?	

[illegible]

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

METHOD: GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

- ☒ Y ☒ N ☒ N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
☒ Y ☒ N ☒ N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	Finding	Associated Samples	Qualifications
	All	The laboratory limit of quantitation (LOQ) and limit of detection (LOD) are higher than the QAPP LOQ and LOD		Text
	All	The laboratory detection limit (DL) for PFOS is higher than the QAPP DL		Text

Comments: See sample calculation verification worksheet for recalculations

LDC#: 39234A96VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 1
Reviewer: Q
2nd Reviewer: W

Method: LC/MS/MS PFCs

Calibration Date	System	Compound	Standard	(Y) Response	(X) Concentration
7/24/2017	Q4	PFBS	0	0.4737025	0.25
			s1	0.88965125	0.50
			s2	2.13415875	1.00
			s3	4.1171275	2.00
			s4	10.30721875	5.00
			s5	17.7060325	10.00
			s6	93.3127675	50.00
			s7	184.225463	100.00

Regression Output

Reported 

Constant	0.259550	0.075295
Std Err of Y Est		
R Squared	0.999910	0.999223
Degrees of Freedom		
X Coefficient(s)	1.843495	1.852230
Std Err of Coef.		
Correlation Coefficient	0.999955	
Coefficient of Determination (r^2)	0.999910	0.999223

 W+

LDC #: 39-3496

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: Q
2nd Reviewer: W

METHOD: GC ✓ HPLC MS

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/Conc. CCV	CF/Conc. CCV	%D	%D
1	17075M1-2	7/25/17	PFBS	0.500	0.515	0.514	3.0	2.8
2	17075M1-9	7/25/17	PFBS	10.0	9.77	9.77	33	23
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 393496

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC MS

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * (SSC - SC) / SA$

Where

SSC = Spiked sample concentration

SC = Sample concentration

SA = Spike added

RPD = $((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD) * 100$

MS = Matrix spike

MSD = Matrix spike duplicate

MS/MSD samples: 10/11

Compound	Spike Added (<u>MS/L</u>)		Sample Conc. (<u>MS/L</u>)	Spike Sample Concentration (<u>MS/L</u>)		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
~~PFBS~~	82.8	86.2	19.6	98.2	108	94.9	94.9	103	103	8.19	8.19

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39234A96

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1Laboratory Control Sample/Laboratory Control Sample Duplicate Results VerificationReviewer: [Signature]2nd Reviewer: [Signature]METHOD: GC ☒ HPLC /MS

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration

SC = Concentration

RPD = $|SSCLCS - SSCLCSD| * 2 / (SSCLCS + SSCLCSD)$

SA = Spike added

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: BT40107-B31

Compound	Spike Added (NS/L)		Spiked Sample Concentration (NS/L)		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
~~PTBS~~	80.0	NA	73.4	NA	91.8	91.8				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 3P3A96VALIDATION FINDINGS WORKSHEET
Sample Calculation VerificationPage: 1 of 1Reviewer: 92nd Reviewer: WMETHOD: GC ✓ HPLC NSY N N/A
Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10% of the reported results?

Concentration= $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$

Example:

Sample ID. T Compound Name PFBSConcentration = $\frac{(\cancel{360.102}) \left(\frac{360.102 \times 12.5}{5077.395} - 0.075 = 948 \right)}{(1.85223)(0.10845)}$ $= 4.04 \text{ NS/L}$

#	Sample ID	Compound	Reported Concentrations (<u>NS/L</u>)	Recalculated Results Concentrations ()	Qualifications
	<u>T</u>	<u>PFBS</u>	<u>4.04</u>		

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: MCAS El Toro, BRAC PFAs

LDC Report Date: August 29, 2017

Parameters: Perfluorinated Alkyl Acids

Validation Level: Stage 2B/4

Laboratory: Vista Analytical Laboratory

Sample Delivery Group (SDG): 1700851

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
18-GW-18MCAS03-5-20170710	1700851-03	Water	07/10/17
18-GW-18MCAS03-2-20170710	1700851-04	Water	07/10/17
18-GW-18MCAS02-5-20170710	1700851-05	Water	07/10/17
18-GW-18MCAS07-3-20170710	1700851-06	Water	07/10/17
24-GW-24MW08B-20170710	1700851-07	Water	07/10/17
DUP03-20170710**	1700851-08**	Water	07/10/17
24-GW-24EX11-20170710	1700851-09	Water	07/10/17
SGV-GW-SGV Transfer Station-20170710**	1700851-10**	Water	07/10/17
SGV-GW-SGV Transfer Station-20170710MS	1700851-10MS	Water	07/10/17
SGV-GW-SGV Transfer Station-20170710MSD	1700851-10MSD	Water	07/10/17

**Indicates sample underwent Stage 4 validation

Introduction

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- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NJ (Presumptive and Estimated): The analysis indicates the presence of a compound or analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance was not required by the method.

III. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

For each calibration point, the percent differences (%D) of its true value were less than or equal to 30.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample EB 01_20170710 was identified as an equipment blank. No contaminants were found.

Sample SB 01_20170710 was identified as a source blank. No contaminants were found.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
SGV-GW-SGV Transfer Station-20170710MS/MSD (SGV-GW-SGV Transfer Station-20170710**)	PFHxS	52.4 (70-130)	-	J (all detects)	A
SGV-GW-SGV Transfer Station-20170710MS/MSD (SGV-GW-SGV Transfer Station-20170710**)	PFOS	139 (70-130)	-	J (all detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
SGV-GW-SGV Transfer Station-20170710MS/MSD (SGV-GW-SGV Transfer Station-20170710**)	PFHxA PFHxS	34.1 (≤30) 58.8 (≤30)	J (all detects) J (all detects)	A

VIII. Ongoing Precision Recovery Samples

Ongoing precision recovery (OPR) samples were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples DUP03-20170710** and SGV-GW-SGV Transfer Station-20170710** were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
	DUP03-20170710**	SGV-GW-SGV Transfer Station-20170710**				
PFBS	80.5	76.0	6 (≤30)	-	-	-
PFHxA	267	268	0 (≤30)	-	-	-
PFHpA	50.9	48.8	4 (≤30)	-	-	-
PFHxS	264	295	11 (≤30)	-	-	-
PFOA	232	234	1 (≤30)	-	-	-
PFOS	407	395	3 (≤30)	-	-	-

Compound	Concentration (ng/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
	DUP03-20170710**	SGV-GW-SGV Transfer Station-20170710**				
PFNA	8.17	8.39	-	0.22 (≤8.30)	-	-

X. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
18-GW-18MCAS03-2-20170710	13C2-PFTeDA	39.3 (50-150)	PFTeDA	NA	-
18-GW-18MCAS02-5-20170710	13C3-PFBS	181 (50-150)	PFBS	UJ (all non-detects)	P
18-GW-18MCAS07-3-20170710	13C2-PFTeDA	12.7 (50-150)	PFTeDA	NA	-
24-GW-24MW08B-20170710	13C2-PFTeDA	7.8 (50-150)	PFTeDA	NA	-
24-GW-24EX11-20170710	13C3-PFBS	224 (50-150)	PFBS	J (all detects)	P
SGV-GW-SGV Transfer Station-20170710**	13C3-PFBS	180 (50-150)	PFBS	J (all detects)	P
SGV-GW-SGV Transfer Station-20170710**	13C2-PFTeDA	26.6 (50-150)	PFTeDA	NA	-

XI. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation.

The laboratory limit of quantitation (LOQ) and limit of detection (LOD) dilution are higher than the QAPP LOQ and LOD.

The laboratory detection limit (DL) for PFOS is higher than the QAPP DL.

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and RPD and internal standards %R, data were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

MCAS EI Toro, BRAC PFAs**Perfluorinated Alkyl Acids - Data Qualification Summary - SDG 1700851**

Sample	Compound	Flag	A or P	Reason
SGV-GW-SGV Transfer Station-20170710**	PFHxS PFOS	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
SGV-GW-SGV Transfer Station-20170710**	PFHxA PFHxS	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD)
18-GW-18MCAS02-5-20170710	PFBS	UJ (all non-detects)	P	Internal standards (%R)
SGV-GW-SGV Transfer Station-20170710** 24-GW-24EX11-20170710	PFBS	J (all detects)	P	Internal standards (%R)

MCAS EI Toro, BRAC PFAs**Perfluorinated Alkyl Acids - Laboratory Blank Data Qualification Summary - SDG 1700851**

No Sample Data Qualified in this SDG

MCAS EI Toro, BRAC PFAs**Perfluorinated Alkyl Acids - Field Blank Data Qualification Summary - SDG 1700851**

No Sample Data Qualified in this SDG

LDC #: 39234B96

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1700851

Stage 2B/4

Laboratory: Vista Analytical Laboratory

Date: 8/11/17

Page: 1 of 1

Reviewer: Q

2nd Reviewer: RK

METHOD: LCMS Perfluorinated Alkyl Acids (EPA Method 537)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 20%, Y2. LOD ≤ 3%, 10/1 ≤ 3%
IV.	Continuing calibration	A	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	SB = 1. EB = 2
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	SW	
IX.	Laboratory control samples	A	OPR
X.	Field duplicates	SW	D = 8 + 10
XI.	Internal standards	SW	
XII.	Compound quantitation RL/LOQ/LODs	SW	Not reviewed for Stage 2B validation
XIII.	Target compound identification	A	Not reviewed for Stage 2B validation
XIV.	System performance	A	Not reviewed for Stage 2B validation
XV.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

** Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	SB 01_20170710	1700851-01	Water	07/10/17
2	EB 01_20170710	1700851-02	Water	07/10/17
3	18-GW-18MCAS03-5-20170710	1700851-03	Water	07/10/17
4	18-GW-18MCAS03-2-20170710	1700851-04	Water	07/10/17
5	18-GW-18MCAS02-5-20170710	1700851-05	Water	07/10/17
6	18-GW-18MCAS07-3-20170710	1700851-06	Water	07/10/17
7	24-GW-24MW08B-20170710	1700851-07	Water	07/10/17
8	DUP03-20170710**	1700851-08**	Water	07/10/17
9	24-GW-24EX11-20170710	1700851-09	Water	07/10/17
10	SGV-GW-SGV Transfer Station-20170710**	1700851-10**	Water	07/10/17
11	SGV-GW-SGV Transfer Station-20170710MS	1700851-10MS	Water	07/10/17
12	SGV-GW-SGV Transfer Station-20170710MSD	1700851-10MSD	Water	07/10/17
13				

BT 4010T-BK

Method: LCMS (EPA Method 537)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was cooler temperature criteria met?	☒	☐	☐	
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit criteria of > 0.990?	☒	☐	☐	
Were all analytes within 70-130% or percent differences (%D) ≤ 30% of their true value for each calibration standard	☒	☐	☐	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	☒	☐	☐	
Were all percent differences (%D) < 30%?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) of the continuing calibration < 30%?	☒	☐	☐	
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Field blanks				
Were field blanks identified in this SDG?	☒	☐	☐	
Were target compounds detected in the field blanks?	☐	☒	☐	
VIII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☒	☐	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	

LDC #: 39234B96

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: Q
2nd Reviewer: KK

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	☒	☐	☐	
Were target compounds detected in the field duplicates?	☒	☐	☐	
XI. Internal standards				
Were internal standard area counts within $\pm 50\%$ of the associated calibration standard?	☐	☒	☐	
XII. Compound quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
XIV. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	

LDC# 39234B96**VALIDATION FINDINGS WORKSHEET**
Field DuplicatesPage: 1 of 1
Reviewer: Q
2nd Reviewer: KK**METHOD:** PFCs (Method 537 mod)

Compound	Concentration (ng/L)		(≤30) RPD	Difference	Limits	Qual
	8	10				
PFBS	80.5	76.0	6			
PFHxA	267	268	0			
PFHpA	50.9	48.8	4			
PFHxS	264	295	11			
PFOA	232	234	1			
PFOS	407	395	3			
PFNA	8.17	8.39		0.22	≤8.30	

VALIDATION FINDINGS WORKSHEET

Internal Standards

METHOD: LC/MS PFCs

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y/N N/A Were all internal standard area counts within 50-150% limits?

Y N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

[illegible]

VALIDATION FINDINGS WORKSHEET **Compound Quantitation and Reported CRQLs**

METHOD: GC HPLC MS

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

- Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	Finding	Associated Samples	Qualifications
	All	The laboratory limit of quantitation (LOQ) and limit of detection (LOD) are higher than the QAPP LOQ and LOD		Text
	All	The laboratory detection limit (DL) for PFOS is higher than the QAPP DL		

Comments: See sample calculation verification worksheet for recalculations

LDC#: 39234B96VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 1
Reviewer: 9
2nd Reviewer: VV

Method: LC/MS/MS PFCs

Calibration Date	System	Compound	Standard	(Y) Response	(X) Concentration
7/24/2017	Q4	PFNA	0	0.3423663	0.25
			s1	0.61514875	0.50
			s2	1.286095	1.00
			s3	2.65082625	2.00
			s4	6.86290375	5.00
			s5	11.94864375	10.00
			s6	53.26122125	50.00
			s7	109.557083	100.00

Regression Output

Reported *

Constant	0.421145	0.147218
Std Err of Y Est		
R Squared	0.999609	0.997320
Degrees of Freedom		
X Coefficient(s)	1.085364	1.098350
Std Err of Coef.		
Correlation Coefficient	0.999804	
Coefficient of Determination (r^2)	0.999609	0.997320

* W+

LDC#: 39-24B96VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: LC/MS/MS PFCs

Calibration Date	System	Compound	Standard	(Y) Response	(X) Concentration
7/28/2017	Q4	PFNA	0	0.3015750	0.25
			s1	0.6235587	0.50
			s2	1.1884475	1.00
			s3	2.3838875	2.00
			s4	5.6871375	5.00
			s5	11.414025	10.00
			s6	51.11657201	50.00
			s7	106.4871079	100.00
			s8	269.114227	250.00

Regression Output

Reported *

Constant	-0.164719	0.083874
Std Err of Y Est		
R Squared	0.999871	0.999549
Degrees of Freedom		
X Coefficient(s)	1.074147	1.068800
Std Err of Coef.		
Correlation Coefficient	0.999935	
Coefficient of Determination (r^2)	0.999871	0.999549

* W+

LDC #: 3703/B96

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: Q
2nd Reviewer: W

METHOD: GC ✓ HPLC MS

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(lcal)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/Conc. CCV	CF/Conc. CCV	%D	%D
1	IT0735ML2	7/25/17	~~PFNA~~	0.500	0.492	0.491	1.7	1.9
2	IT0736ML2	7/26/17	~~PFNA~~	0.500	0.470	0.470	5.9	6.0
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 3934B96

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC MS

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * (SSC - SC) / SA$

Where

SSC = Spiked sample concentration

SC = Sample concentration

SA = Spike added

MS = Matrix spike

MSD = Matrix spike duplicate

RPD = $((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD) * 100$ MS/MSD samples: 11/12

Compound	Spike Added		Sample Conc.	Spike Sample Concentration		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	(US/L)			(US/L)		Percent Recovery		Percent Recovery		RPD	
	MS	MSD		---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
PhNA	83.7	82.7	83.9	96.4	90.3	105	105	99.0	99.0	5.88	5.88

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 3734396

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results VerificationPage: 1 of 1Reviewer: Q2nd Reviewer: WMETHOD: GC ☒ HPLC US

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration

SC = Concentration

SA = Spike added

RPD = $|SSCLCS - SSCLCSD| * 2 / (SSCLCS + SSCLCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: BT40107-B51

Compound	Spike Added (<u>US</u>)		Spiked Sample Concentration (<u>US</u> / <u>4</u>)		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
~~PFNA~~	<u>80.0</u>	<u>NA</u>	<u>78.4</u>	<u>NA</u>	<u>98.0</u>	<u>98.0</u>				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 373496VALIDATION FINDINGS WORKSHEET
Sample Calculation VerificationPage: 1 of 1Reviewer: [Signature]2nd Reviewer: [Signature]METHOD: GC ✓ HPLC MSY N N/A
Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10% of the reported results?

Concentration= $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$

Example:

Sample ID: 8 Compound Name: PFNA

A= Area or height of the compound to be measured

Fv= Final Volume of extract

Df= Dilution Factor

RF= Average response factor of the compound
in the initial calibration

Vs= Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

Concentration = $\frac{(4960 \times 12.5)}{54500} - 0.083874)(1)$
 $(1.0688)(0.12071)$ $= 8.17 \text{ ng/L}$

#	Sample ID	Compound	Reported Concentrations (<u>ng/L</u>)	Recalculated Results Concentrations ()	Qualifications
	<u>8</u>	<u>PFNA</u>	<u>8.17</u>		

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro, BRAC PFAs

LDC Report Date: August 29, 2017

Parameters: Perfluorinated Alkyl Acids

Validation Level: Stage 2B/4

Laboratory: Vista Analytical Laboratory

Sample Delivery Group (SDG): 1700871

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
5-GW-05_DGMW41B-20170712**	1700871-02**	Water	07/12/17
18-GW-18BGM03E-20170712	1700871-03	Water	07/12/17
24-GW-24IN03-20170712	1700871-04	Water	07/12/17
DUP02-20170712	1700871-05	Water	07/12/17
24-GW-24EX13A-20170712	1700871-06	Water	07/12/17
24-GW-24MW15D-20170712	1700871-07	Water	07/12/17
16-GW-16_MW28-20170712	1700871-08	Water	07/12/17
16-GW-16_MW19-20170712	1700871-09	Water	07/12/17
16-GW-16_MW04-20170713**	1700871-11**	Water	07/13/17

**Indicates sample underwent Stage 4 validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Sampling and Analysis Plan (Field Sampling Plan and Quality Assurance Project Plan) for Initial Assessment of Per-Fluorinated Compounds (PFCS) or Per- and Polyfluoroalkyl Substances (PFAS) Sites at Various Base Realignment and Closure (BRAC) Installations (March 2017), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Superfund Organic Methods Data Review (August 2014). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Perfluorinated Alkyl Acids by Environmental Protection Agency (EPA) Method 537

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Stage 4 data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NJ (Presumptive and Estimated): The analysis indicates the presence of a compound or analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance was not required by the method.

III. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

For each calibration point, the percent differences (%D) of its true value were less than or equal to 30.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Samples EB03-20170712 and EB04-20170713 were identified as equipment blanks. No contaminants were found.

Sample SB01_20170710 (from SDG 1700851) was identified as a source blank. No contaminants were found.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike

duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Ongoing Precision Recovery Samples

Ongoing precision recovery (OPR) samples were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples 24-GW-24IN03-20170712 and DUP02-20170712 were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
	24-GW-24IN03-20170712	DUP02-20170712				
PFBS	8.97	9.66	-	0.69 (≤ 8.52)	-	-
PFHxA	41.2	44.7	-	3.5 (≤ 8.52)	-	-
PFHpA	5.95	6.96	-	1.01 (≤ 8.52)	-	-
PFHxS	18.9	17.6	-	1.3 (≤ 8.52)	-	-
PFOA	40.3	42.7	-	2.4 (≤ 8.52)	-	-

X. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
24-GW-24IN03-20170712	13C2-PFTeDA	3.50 (50-150)	PFTeDA	NA	-
DUP02-20170712	13C2-PFTeDA	19.3 (50-150)	PFTeDA	NA	-
16-GW-16_MW04-20170713**	13C4-PFHpA	162 (50-150)	PFHpA	UJ (all non-detects)	P
16-GW-16_MW04-20170713**	13C2-PFTeDA	33.6 (50-150)	PFTeDA	NA	-

XI. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Stage 4 validation.

The laboratory limit of quantitation (LOQ) and limit of detection (LOD) are higher than the QAPP LOQ and LOD.

The laboratory detection limit (DL) for PFOS is higher than the QAPP DL.

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

The system performance was acceptable for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to internal standards %R, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

MCAS EI Toro, BRAC PFAs
Perfluorinated Alkyl Acids - Data Qualification Summary - SDG 1700871

Sample	Compound	Flag	A or P	Reason
16-GW-16_MW04-20170713**	PFHpA	UJ (all non-detects)	P	Internal standards (%R)

MCAS EI Toro, BRAC PFAs
Perfluorinated Alkyl Acids - Laboratory Blank Data Qualification Summary - SDG 1700871

No Sample Data Qualified in this SDG

MCAS EI Toro, BRAC PFAs
Perfluorinated Alkyl Acids - Field Blank Data Qualification Summary - SDG 1700871

No Sample Data Qualified in this SDG

LDC #: 39234C96

VALIDATION COMPLETENESS WORKSHEET

SDG #: 1700871

Stage 2B/4

Laboratory: Vista Analytical Laboratory

Date: 8/1/17

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: LCMS Perfluorinated Alkyl Acids (EPA Method 537)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, A	RSD ≤ 20%, χ^2 70 ≤ 30%, ICV ≤ 30%
IV.	Continuing calibration	A	CCV ≤ 30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	2B = 1.10. SB01-20170710 (1700871)
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	OK
X.	Field duplicates	W	D = A + S
XI.	Internal standards	W	
XII.	Compound quantitation RL/LOQ/LODs	W	Not reviewed for Stage 2B validation
XIII.	Target compound identification	A	Not reviewed for Stage 2B validation
XIV.	System performance	A	Not reviewed for Stage 2B validation
XV.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

** Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	EB03-20170712	1700871-01	Water	07/12/17
2	5-GW-05_DGMW41B-20170712**	1700871-02**	Water	07/12/17
3	18-GW-18BGM03E-20170712	1700871-03	Water	07/12/17
4	24-GW-24IN03-20170712	1700871-04	Water	07/12/17
5	DUP02-20170712	1700871-05	Water	07/12/17
6	24-GW-24EX13A-20170712	1700871-06	Water	07/12/17
7	24-GW-24MW15D-20170712	1700871-07	Water	07/12/17
8	16-GW-16_MW28-20170712	1700871-08	Water	07/12/17
9	16-GW-16_MW19-20170712	1700871-09	Water	07/12/17
10	EB04-20170713	1700871-10	Water	07/13/17
11	16-GW-16_MW04-20170713**	1700871-11**	Water	07/13/17
12				
13	BEF006T- [Signature]			

Method: LCMS (EPA Method 537)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was cooler temperature criteria met?	☒	☐	☐	
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) $\leq$ 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit criteria of > 0.990 ?	☒	☐	☐	
Were all analytes within 70-130% or percent differences (%D) $\leq$ 30% of their true value for each calibration standard	☒	☐	☐	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 30%?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) of the continuing calibration $\leq$ 30%?	☒	☐	☐	
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Field blanks				
Were field blanks identified in this SDG?	☒	☐	☐	
Were target compounds detected in the field blanks?	☐	☒	☐	
VIII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☒	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	

LDC #: 39224C96

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: 9
2nd Reviewer: KK

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	☒	☐	☐	
Were target compounds detected in the field duplicates?	☒	☐	☐	
XI. Internal standards				
Were internal standard area counts within <u>50-150%</u> of the associated calibration standard?	☒	☐	☐	
XII. Compound quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
XIV. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	

LDC#: 3134096**VALIDATION FINDINGS WORKSHEET**
Field DuplicatesPage: 1 of 1
Reviewer: Q
2nd Reviewer: KK**METHOD:** PFCs (Method 537 mod)

Compound	Concentration (ng/L)		(<30) RPD	Difference	Limits	Qual
	4	5				
PFBS	8.97	9.66		0.69	≤8.52	
PFHxA	41.2	44.7		3.5	≤8.52	
PFHpA	5.95	6.96		1.01	≤8.52	
PFHxS	18.9	17.6		1.3	≤8.52	
PFOA	40.3	42.7		2.4	≤8.52	

VALIDATION FINDINGS WORKSHEET

Internal Standards

Reviewer: [Signature]

2nd Reviewer: _____

METHOD: LC/MS PFCs

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y/N N/A Were all internal standard area counts within 50-150% limits?

Y	N	N/A	Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

[illegible]

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

METHOD: GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Level IV/D Only~~

(Y N) N/A

Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

~~Y~~	~~N~~	N/A

Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

[illegible]

Comments: See sample calculation verification worksheet for recalculations

LDC#: 39234C96VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: LC/MS/MS PFCs

Calibration Date	System	Compound	Standard	(Y) Response	(X) Concentration
7/27/2017	Q4	PFBS	0	0.5308925	0.25
			s1	1.0003625	0.50
			s2	2.000095	1.00
			s3	4.2364375	2.00
			s4	10.778003	5.00
			s5	18.456016	10.00
			s6	94.914883	50.00
			s7	186.169710	100.00

Regression Output

Reported ~~*~~

Constant	0.454206	0.124036
Std Err of Y Est		
R Squared	0.999877	0.999166
Degrees of Freedom		
X Coefficient(s)	1.863424	1.879080
Std Err of Coef.		
Correlation Coefficient	0.999939	
Coefficient of Determination (r^2)	0.999877	0.999166

* W+

/

LDC#: 39198C96VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: LC/MS/MS PFCs

Calibration Date	System	Compound	Standard	(Y) Response	(X) Concentration
7/28/2017	Q4	PFTTrDA	0	3.3293183	0.25
			s1	5.8527432	0.50
			s2	11.7753022	1.00
			s3	21.0904224	2.00
			s4	53.4501114	5.00
			s5	100.5446720	10.00
			s6	480.3570407	50.00
			s7	924.896995	100.00
			s8	2490.894811	250.00

Regression Output

Reported *

Constant	-5.316424	1.172150
Std Err of Y Est		
R Squared	0.999191	0.998903
Degrees of Freedom		
X Coefficient(s)	9.886661	9.747200
Std Err of Coef.		
Correlation Coefficient	0.999595	
Coefficient of Determination (r^2)	0.999191	0.998903

* W+

LDC#: 39234C96VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 8
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: LC/MS/MS PFCs

Calibration Date	System	Compound	Standard	(Y) Response	(X) Concentration
8/1/2017	Q4	PFBS	0	0.5318012	0.25
			s1	1.0024725	0.50
			s2	2.005095	1.00
			s3	4.1366337	2.00
			s4	9.4071825	5.00
			s5	18.311911	10.00
			s6	89.723891	50.00
			s7	185.21046	100.00
			s8	479.232035	250.00

Regression Output

Reported *

Constant	-1.167746	0.067014
Std Err of Y Est		
R Squared	0.999710	0.999400
Degrees of Freedom		
X Coefficient(s)	1.910618	1.884080
Std Err of Coef.		
Correlation Coefficient	0.999855	
Coefficient of Determination (r^2)	0.999710	0.999400

* Wt

LDC #: 38234C96VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results VerificationPage: 1 of 1
Reviewer: 9
2nd Reviewer: VWMETHOD: GC ✓ HPLC MS

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(lcal)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/Conc. CCV	CF/Conc. CCV	%D	%D
1	ITOTML66	7/27/17	PFBS	0.500	0.498	0.498	0.4	0.3
2	ITOTML79	7/28/17	PFBS	10.00	9.23	9.22	7.7	7.8
3	ITOTML20	7/31/17	PFDA	10.0	10.7	10.7	6.8	6.9
4	ITOTML2	8/3/17	PFBS	1.00	0.919	0.917	8.1	8.3

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39-34C96

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: VW

METHOD: GC ☒ HPLC MS

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration

SC = Concentration

SA = Spike added

RPD = $|SSCLCS - SSCLCSD| * 2 / (SSCLCS + SSCLCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: BT400GT-BS1

Compound	Spike Added (<u>MS/2</u>)		Spiked Sample Concentration (<u>MS/2</u>)		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
~~FFMX~~	<u>40.0</u>	<u>NA</u>	<u>38.7</u>	<u>NA</u>	<u>96.7</u>	<u>96.7</u>				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 3924C96VALIDATION FINDINGS WORKSHEET
Sample Calculation VerificationPage: 1 of 1Reviewer: 92nd Reviewer: WMETHOD: GC ✓ HPLC MS(Y) N N/A
(Y) N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10% of the reported results?

Concentration = $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$

Example:

Sample ID: 2 Compound Name PFBSConcentration = $\left(\frac{230 \times 12.5}{2780} - 0.04036 \right) (1)$
 $(1.87908)(0.11547)$ = 4.19 ng/L

#	Sample ID	Compound	Reported Concentrations (<u>ng/L</u>)	Recalculated Results Concentrations ()	Qualifications
	<u>2</u>	<u>PFBS</u>	<u>4.19</u>		

Comments: _____

LDC #: 39234

EDD POPULATION COMPLETENESS WORKSHEET

Date: 8/18
Page: 1 of 1
2nd Reviewer: adThe LDC job number listed above was entered by JE.

	EDD Process		Comments/Action
I.	EDD Completeness	-	
Ia.	- All methods present?	Y	
Ib.	- All samples present/match report?	Y	
Ic.	- All reported analytes present?	Y	
Id.	(10%) or 100% verification of EDD?	Y	
II.	EDD Preparation/Entry	-	
Ila.	- Carryover U/J?	—	
Ilb.	- Reason Codes used? If so, note which codes.	Y	client
Ilc.	- Additional Information (QC Level, Validator, Validated Y/N, etc.)	Y	
III.	Reasonableness Checks	-	
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	Y	
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	Y	
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	Y	
IIId.	- Does the detect flag require changing for blank qualifier? If so, are all U results marked ND?	+	
IIIe.	- Do blank concentrations in report match EDD where data was qualified due to blank contamination?	—	
IIIf.	- Were multiple results reported due to dilutions/reanalysis? If so, were results qualified appropriately?	+	
IIIg.	- Are there any discrepancies between the data packet and the EDD?	N	

Notes: *see discrepancy sheet

INSTALLATION_ID	SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	SAMPLE_NAME	SAMPLE_MATRIX_DESC	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC	SDG
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871

INSTALLATION_ID	SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	SAMPLE_NAME	SAMPLE_MATRIX_DESC	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC	SDG
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871

INSTALLATION_ID	SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	SAMPLE_NAME	SAMPLE_MATRIX_DESC	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC	SDG
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24MW15D	Monitoring well	6105646.18	2192454.22	24-GW-24MW15D-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24EX13A	Well	6107553.14	2190629.84	24-GW-24EX13A-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW19	Monitoring well	6110697.43	2192979.19	16-GW-16_MW19-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00005	05_DGMW41B	Monitoring well	6117477.15	2188881.52	5-GW-05_DGMW41B-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16-MW28	Monitoring well	6109532.09	2193182.88	16-GW-16_MW28-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			DUP02-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	24_IN03	Well			24-GW-24IN03-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00016	16_MW4	Well	6110516.9	2193114.4	16-GW-16_MW04-20170713	Ground water	13-Jul-17	Perfluoroalkyl Compounds	1700871
EL_TORO_MCAS	SITE 00024	18BGMW03E	Monitoring well	6109474.2	2188867.49	18-GW-18BGM03E-20170712	Ground water	12-Jul-17	Perfluoroalkyl Compounds	1700871