



**Groundwater Sample Results,
Combined Level 2 and Level 4 Laboratory Report,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 1701953**

*Naval Weapons Industrial Reserve Plant Calverton
Riverhead, New York*

August 2019



January 31, 2018

Vista Work Order No. 1701953

Ms. Kristi Francisco
Tetra Tech
5700 Lake Wright Drive, Suite 309
Norfolk, VA 23502

Dear Ms. Francisco,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on December 14, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'NWIRP Calverton Site 2 SA 112G08005-WE05'. The SDG Number is WE05.

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,

A handwritten signature in black ink that reads "Martha Maier". The signature is fluid and cursive, with the first name "Martha" and last name "Maier" clearly distinguishable.

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.

SDG Number WE05

Vista Work Order No. 1701953

Case Narrative

Sample Condition on Receipt:

Eleven aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The client confirmed that the sample ID for "SA-MW127S-20171213" is correct per the CoC.

Analytical Notes:

Modified EPA Method 537

The following samples contained particulate and were centrifuged prior to extraction:

<u>Laboratory ID</u>	<u>Sample Name</u>
1701953-02	SA-MW127S-20171213
1701953-03	SA-MW126S-20171213
1701953-06	SA-Dup10-20171213
1701953-07	SA-PZ123S-20171213
1701953-08	SA-PZ123I-20171213
1701953-10	SA-PZ118S-20171213
1701953-11	SA-PZ118I-20171213

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

Holding Times

The samples were extracted within the method hold times. The dilutions for PFUnA in samples "CV-Dup09-20171213" and "SA-PZ118S-20171213" were analyzed outside the hold time. All other analyses were performed within the hold time.

Quality Control

The Initial Calibration met the method acceptance criteria. The recoveries of PFDoA, PFTrDA and PFTeDA were >130% in one of more Continuing Calibration Verifications; these analytes were not detected in the samples.

A Method Blank and Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 of the LOQ concentrations. The recoveries of PFDoA and PFTrDA were >130% in the LCS and/or LCSD. These analytes were not detected in the samples. The recoveries of all other analytes were within the acceptance criteria.

The extracts of all samples except "SA-MW127S-FRB-20171213" were re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The results from the re-injections

have been reported. The area criteria passed for PFTeDA in the original injections and the results have been reported from the initial analyses.

The results for PFUDA and PFTeDA were taken from separate injections of the extracts.

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

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
B7L0183-BS1	B7L0183-BS1	Modified EPA Method 537	13C2-PFDoA	H	44.4
B7L0183-BSD1	B7L0183-BSD1	Modified EPA Method 537	13C2-PFDoA	H	49.7

H = Recovery was outside laboratory acceptance criteria.

In addition, the laboratory QC officer must read and sign a copy of the Quality Assurance Review Form displayed on the next page of this Attachment. Electronic deliverables are not considered to be complete without the accompanying Quality Assurance Review Form.

I Anna Helak, as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at (916) 673 1520 if there are any questions or problems with the enclosed electronic deliverables.

Signature: [Handwritten Signature] Title: QA Manager Date: 01/22/2018

Revision 9
ISG
08/18/16

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701953-01	CV-Dup09-20171213	13-Dec-17 09:00	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-02	SA-MW127S-20171213	13-Dec-17 10:35	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-03	SA-MW126S-20171213	13-Dec-17 10:37	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-04	SA-MW126I-20171213	13-Dec-17 09:34	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-05	SA-MW127S-FRB-20171213	13-Dec-17 10:35	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-06	SA-Dup10-20171213	13-Dec-17 12:00	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-07	SA-PZ123S-20171213	13-Dec-17 13:15	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-08	SA-PZ123I-20171213	13-Dec-17 13:22	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-09	SA-PZ123I1-20171213	13-Dec-17 14:22	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-10	SA-PZ118S-20171213	13-Dec-17 14:37	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1701953-11	SA-PZ118I-20171213	13-Dec-17 13:20	14-Dec-17 11:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

ANALYTICAL RESULTS

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

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B7L0183-BLK1	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.895	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFHxA	ND	1.09	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFHpA	ND	0.296	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFHxS	ND	0.474	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFOA	ND	0.326	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFOS	ND	0.404	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFNA	ND	0.405	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFDA	ND	0.745	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
MeFOSAA	ND	0.825	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFOxA	ND	0.525	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 09:01	1
EtFOSAA	ND	0.685	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFOxA	ND	0.396	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFTeDA	ND	0.247	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
PFTeDA	ND	0.378	2.50	4.00		B7L0183	26-Dec-17	0.250 L	16-Jan-18 09:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	112	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C2-PFHxA	IS	89.9	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C4-PFHpA	IS	96.5	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
18O2-PFHxS	IS	97.1	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C2-PFOA	IS	90.6	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C8-PFOS	IS	96.3	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C5-PFNA	IS	89.7	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C2-PFDA	IS	93.6	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
d3-MeFOSAA	IS	79.0	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C2-PFOxA	IS	68.4	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 09:01	1
d5-EtFOSAA	IS	86.8	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C2-PFOxA	IS	52.5	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 18:49	1
13C2-PFTeDA	IS	72.5	50 - 150		B7L0183	26-Dec-17	0.250 L	16-Jan-18 09:01	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: LCSD

Modified EPA Method 537

Name:	Tetra Tech	Lab Sample:	B7L0183-BS1/B7L0183-BSD1	Date Extracted:	26-Dec-17
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	QC Batch:	B7L0183	Column:	BEH C18
Matrix:	Aqueous	Samp Size:	0.250/0.250 L		

Analyte	LCS (ng/L)	LCS Spike Amt	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike Amt	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBS	51.2	40.0	128		47.8	40.0	120	6.78		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFHxA	42.4	40.0	106		41.8	40.0	105	1.33		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFHpA	41.0	40.0	102		42.4	40.0	106	3.39		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFHxS	48.4	40.0	121		46.2	40.0	115	4.76		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFOA	43.4	40.0	109		42.7	40.0	107	1.64		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFOS	37.8	40.0	94.4		51.8	40.0	130	31.4		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFNA	36.6	40.0	91.5		41.1	40.0	103	11.5		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFDA	36.5	40.0	91.3		39.7	40.0	99.2	8.27		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
MeFOSAA	49.9	40.0	125		42.2	40.0	105	16.8		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFUnA	35.3	40.0	88.2		39.6	40.0	99.0	11.6		70-130		16-Jan-18 08:38	1	16-Jan-18 08:49	1
EtFOSAA	45.6	40.0	114		39.5	40.0	98.7	14.3		70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFDaA	77.7	40.0	194	H	86.4	40.0	216	10.6	H	70-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFTrDA	72.0	40.0	180	H	64.2	40.0	161	11.4	H	60-130		16-Jan-18 18:26	1	16-Jan-18 18:38	1
PFTeDA	32.0	40.0	80.1		34.1	40.0	85.1	6.13		70-130		16-Jan-18 08:38	1	16-Jan-18 08:49	1

Labeled Standards	Type	LCS % Rec	LCS Quals	LCSD % Rec	LCSD Quals	Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS	108		131		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C2-PFHxA	IS	92.7		118		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C4-PFHpA	IS	97.0		109		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
18O2-PFHxS	IS	92.7		96.5		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C2-PFOA	IS	86.9		91.6		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C8-PFOS	IS	122		98.7		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C5-PFNA	IS	107		86.4		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C2-PFDA	IS	104		109		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
d3-MeFOSAA	IS	82.5		109		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C2-PFUnA	IS	86.3		74.8		50-150	16-Jan-18 08:38	1	16-Jan-18 08:49	1
d5-EtFOSAA	IS	87.9		109		50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C2-PFDaA	IS	44.4	H	49.7	H	50-150	16-Jan-18 18:26	1	16-Jan-18 18:38	1
13C2-PFTeDA	IS	81.4		94.8		50-150	16-Jan-18 08:38	1	16-Jan-18 08:49	1

Sample ID: CV-Dup09-20171213

Modified EPA Method 537

Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	1701953-01	Column:	BEH C18		
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 09:00		Date Received:	14-Dec-17 11:33				
SDG:	WE05									

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.871	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFHxA	9.84	1.06	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFHpA	19.7	0.288	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFHxS	0.761	0.461	2.43	3.89	J	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFOA	28.9	0.317	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFOS	2.67	0.393	2.43	3.89	J	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFNA	790	1.97	12.2	19.5	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:01	5
PFDA	15.4	0.725	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
MeFOSAA	ND	0.803	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFUnA	372	5.11	24.3	38.9	D	B7L0183	26-Dec-17	0.257 L	30-Jan-18 23:35	10
EtFOSAA	ND	0.667	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFDoA	ND	0.386	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFTrDA	ND	0.240	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
PFTeDA	ND	0.368	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 09:12	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	113	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C2-PFHxA	IS	95.6	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C4-PFHpA	IS	100	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
18O2-PFHxS	IS	95.7	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C2-PFOA	IS	93.3	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C8-PFOS	IS	112	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C5-PFNA	IS	76.1	50 - 150	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:01	5
13C2-PFDA	IS	121	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
d3-MeFOSAA	IS	111	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C2-PFUnA	IS	78.2	50 - 150	D	B7L0183	26-Dec-17	0.257 L	30-Jan-18 23:35	10
d5-EtFOSAA	IS	118	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C2-PFDoA	IS	63.3	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:58	1
13C2-PFTeDA	IS	86.2	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 09:12	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-MW127S-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-02	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 10:35	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.947	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFHxA	ND	1.15	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFHpA	ND	0.313	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFHxS	ND	0.501	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFOA	ND	0.344	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFOS	0.437	0.427	2.65	4.23	J	B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFNA	ND	0.429	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFDA	ND	0.788	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
MeFOSAA	ND	0.873	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFUnA	ND	0.556	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 09:24	1
EtFOSAA	ND	0.725	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFDoA	ND	0.419	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFTrDA	ND	0.261	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
PFTeDA	ND	0.399	2.65	4.23		B7L0183	26-Dec-17	0.236 L	16-Jan-18 09:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	127	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C2-PFHxA	IS	96.7	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C4-PFHpA	IS	98.5	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
18O2-PFHxS	IS	87.8	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C2-PFOA	IS	76.5	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C8-PFOS	IS	105	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C5-PFNA	IS	95.5	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C2-PFDA	IS	124	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
d3-MeFOSAA	IS	124	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C2-PFUnA	IS	86.5	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 09:24	1
d5-EtFOSAA	IS	122	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C2-PFDoA	IS	72.9	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 20:09	1
13C2-PFTeDA	IS	86.9	50 - 150		B7L0183	26-Dec-17	0.236 L	16-Jan-18 09:24	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-MW126S-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-03	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 10:37	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.921	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFHxA	7.34	1.12	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFHpA	15.1	0.304	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFHxS	0.957	0.487	2.57	4.12	J	B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFOA	25.5	0.335	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFOS	6.22	0.415	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFNA	435	2.08	12.9	20.6	D	B7L0183	26-Dec-17	0.243 L	16-Jan-18 19:12	5
PFDA	10.6	0.767	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
MeFOSAA	ND	0.849	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFUnA	933	2.70	12.9	20.6	D	B7L0183	26-Dec-17	0.243 L	16-Jan-18 19:12	5
EtFOSAA	ND	0.705	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFDoA	ND	0.408	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFTrDA	ND	0.254	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
PFTeDA	ND	0.389	2.57	4.12		B7L0183	26-Dec-17	0.243 L	16-Jan-18 09:42	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	119	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C2-PFHxA	IS	101	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C4-PFHpA	IS	102	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
18O2-PFHxS	IS	85.8	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C2-PFOA	IS	90.4	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C8-PFOS	IS	89.5	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C5-PFNA	IS	103	50 - 150	D	B7L0183	26-Dec-17	0.243 L	16-Jan-18 19:12	5
13C2-PFDA	IS	123	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
d3-MeFOSAA	IS	88.9	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C2-PFUnA	IS	86.7	50 - 150	D	B7L0183	26-Dec-17	0.243 L	16-Jan-18 19:12	5
d5-EtFOSAA	IS	94.4	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C2-PFDoA	IS	61.1	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 20:55	1
13C2-PFTeDA	IS	93.8	50 - 150		B7L0183	26-Dec-17	0.243 L	16-Jan-18 09:42	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-MW126I-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-04	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 09:34	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.928	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFHxA	4.77	1.13	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFHpA	4.98	0.306	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFHxS	1.70	0.491	2.59	4.15	J	B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFOA	13.2	0.338	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFOS	11.5	0.418	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFNA	18.0	0.420	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFDA	ND	0.773	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
MeFOSAA	ND	0.856	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFOA	1.46	0.544	2.59	4.15	J	B7L0183	26-Dec-17	0.241 L	16-Jan-18 09:53	1
EtFOSAA	ND	0.710	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFOA	ND	0.411	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFOA	ND	0.256	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
PFOA	ND	0.392	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 09:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	122	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C2-PFHxA	IS	107	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C4-PFHpA	IS	98.3	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
18O2-PFHxS	IS	95.8	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C2-PFOA	IS	85.5	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C8-PFOS	IS	80.8	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C5-PFNA	IS	78.8	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C2-PFDA	IS	106	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
d3-MeFOSAA	IS	83.9	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C2-PFOA	IS	74.7	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 09:53	1
d5-EtFOSAA	IS	116	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C2-PFOA	IS	58.7	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 21:07	1
13C2-PFOA	IS	78.6	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 09:53	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-MW127S-FRB-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-05	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 10:35	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.877	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFHxA	ND	1.07	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFHpA	ND	0.290	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFHxS	ND	0.464	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFOA	ND	0.319	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFOS	ND	0.395	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFNA	ND	0.397	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFDA	ND	0.730	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
MeFOSAA	ND	0.809	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFOA	0.901	0.515	2.45	3.92	J	B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
EtFOSAA	ND	0.671	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFDaA	ND	0.388	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFTDA	ND	0.242	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
PFTeDA	ND	0.370	2.45	3.92		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	118	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C2-PFHxA	IS	103	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C4-PFHpA	IS	95.6	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
18O2-PFHxS	IS	92.1	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C2-PFOA	IS	77.5	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C8-PFOS	IS	85.9	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C5-PFNA	IS	92.6	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C2-PFDA	IS	105	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
d3-MeFOSAA	IS	102	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C2-PFOA	IS	78.7	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
d5-EtFOSAA	IS	101	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C2-PFDaA	IS	70.6	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1
13C2-PFTeDA	IS	73.2	50 - 150		B7L0183	26-Dec-17	0.255 L	16-Jan-18 10:05	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-Dup10-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-06	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 12:00	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.868	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFHxA	ND	1.06	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFHpA	ND	0.287	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFHxS	ND	0.459	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFOA	ND	0.316	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFOS	ND	0.391	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFNA	ND	0.393	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFDA	ND	0.723	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
MeFOSAA	ND	0.800	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFUnA	ND	0.509	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 10:16	1
EtFOSAA	ND	0.665	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFDoA	ND	0.384	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFTrDA	ND	0.240	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
PFTeDA	ND	0.366	2.42	3.88		B7L0183	26-Dec-17	0.258 L	16-Jan-18 10:16	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	116	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C2-PFHxA	IS	99.9	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C4-PFHpA	IS	113	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
18O2-PFHxS	IS	101	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C2-PFOA	IS	80.7	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C8-PFOS	IS	115	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C5-PFNA	IS	106	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C2-PFDA	IS	89.3	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
d3-MeFOSAA	IS	117	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C2-PFUnA	IS	94.9	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 10:16	1
d5-EtFOSAA	IS	111	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C2-PFDoA	IS	68.9	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 21:18	1
13C2-PFTeDA	IS	90.5	50 - 150		B7L0183	26-Dec-17	0.258 L	16-Jan-18 10:16	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-PZ123S-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-07	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 13:15	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.923	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFHxA	ND	1.12	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFHpA	ND	0.305	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFHxS	ND	0.488	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFOA	ND	0.336	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFOS	ND	0.416	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFNA	14.0	0.418	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFDA	1.80	0.768	2.58	4.12	J	B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
MeFOSAA	ND	0.851	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFUnA	ND	0.541	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 10:28	1
EtFOSAA	ND	0.706	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFDoA	ND	0.408	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFTrDA	ND	0.255	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
PFTeDA	ND	0.389	2.58	4.12		B7L0183	26-Dec-17	0.242 L	16-Jan-18 10:28	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	110	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C2-PFHxA	IS	99.0	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C4-PFHpA	IS	92.9	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
18O2-PFHxS	IS	83.1	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C2-PFOA	IS	82.3	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C8-PFOS	IS	102	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C5-PFNA	IS	99.2	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C2-PFDA	IS	111	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
d3-MeFOSAA	IS	104	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C2-PFUnA	IS	88.1	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 10:28	1
d5-EtFOSAA	IS	110	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C2-PFDoA	IS	60.7	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 21:29	1
13C2-PFTeDA	IS	80.8	50 - 150		B7L0183	26-Dec-17	0.242 L	16-Jan-18 10:28	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-PZ123I-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-08	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 13:22	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.871	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFHxA	14.2	1.06	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFHpA	20.6	0.287	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFHxS	3.82	0.461	2.43	3.89	J	B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFOA	41.1	0.317	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFOS	2.39	0.392	2.43	3.89	J	B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFNA	1090	1.97	12.2	19.5	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:24	5
PFDA	30.1	0.725	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
MeFOSAA	ND	0.802	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFUnA	929	2.55	12.2	19.5	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:24	5
EtFOSAA	ND	0.666	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFDoA	ND	0.385	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFTrDA	ND	0.240	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
PFTeDA	ND	0.367	2.43	3.89		B7L0183	26-Dec-17	0.257 L	16-Jan-18 10:39	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	122	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C2-PFHxA	IS	102	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C4-PFHpA	IS	102	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
18O2-PFHxS	IS	91.3	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C2-PFOA	IS	83.0	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C8-PFOS	IS	104	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C5-PFNA	IS	107	50 - 150	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:24	5
13C2-PFDA	IS	92.3	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
d3-MeFOSAA	IS	101	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C2-PFUnA	IS	100	50 - 150	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:24	5
d5-EtFOSAA	IS	95.1	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C2-PFDoA	IS	89.9	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:41	1
13C2-PFTeDA	IS	88.3	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 10:39	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-PZ123I1-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-09	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 14:22	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.869	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFHxA	13.3	1.06	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFHpA	21.2	0.287	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFHxS	4.16	0.460	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFOA	31.0	0.316	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFOS	17.6	0.392	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFNA	610	1.97	12.2	19.4	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:35	5
PFDA	50.7	0.723	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
MeFOSAA	ND	0.801	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFUnA	41.0	0.510	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 10:51	1
EtFOSAA	ND	0.665	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFDoA	ND	0.385	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFTrDA	ND	0.240	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
PFTeDA	ND	0.367	2.43	3.88		B7L0183	26-Dec-17	0.257 L	16-Jan-18 10:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	105	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C2-PFHxA	IS	97.4	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C4-PFHpA	IS	93.2	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
18O2-PFHxS	IS	109	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C2-PFOA	IS	96.0	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C8-PFOS	IS	92.9	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C5-PFNA	IS	91.2	50 - 150	D	B7L0183	26-Dec-17	0.257 L	16-Jan-18 19:35	5
13C2-PFDA	IS	104	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
d3-MeFOSAA	IS	109	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C2-PFUnA	IS	82.6	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 10:51	1
d5-EtFOSAA	IS	124	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C2-PFDoA	IS	64.3	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 21:52	1
13C2-PFTeDA	IS	63.3	50 - 150		B7L0183	26-Dec-17	0.257 L	16-Jan-18 10:51	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-PZ118S-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-10	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 14:37	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.952	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFHxA	3.43	1.16	2.66	4.25	J	B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFHpA	7.34	0.314	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFHxS	ND	0.504	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFOA	23.9	0.346	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFOS	2.65	0.429	2.66	4.25	J	B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFNA	1010	2.15	13.3	21.3	D	B7L0183	26-Dec-17	0.235 L	16-Jan-18 19:46	5
PFDA	19.3	0.792	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
MeFOSAA	ND	0.877	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFOA	397	5.58	26.6	42.5	D	B7L0183	26-Dec-17	0.235 L	30-Jan-18 23:47	10
EtFOSAA	ND	0.729	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFOA	ND	0.421	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFOA	ND	0.263	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
PFOA	ND	0.402	2.66	4.25		B7L0183	26-Dec-17	0.235 L	16-Jan-18 11:02	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	106	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C2-PFHxA	IS	97.2	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C4-PFHpA	IS	99.9	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
18O2-PFHxS	IS	88.1	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C2-PFOA	IS	92.3	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C8-PFOS	IS	80.1	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C5-PFNA	IS	89.8	50 - 150	D	B7L0183	26-Dec-17	0.235 L	16-Jan-18 19:46	5
13C2-PFDA	IS	105	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
d3-MeFOSAA	IS	118	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C2-PFOA	IS	65.1	50 - 150	D	B7L0183	26-Dec-17	0.235 L	30-Jan-18 23:47	10
d5-EtFOSAA	IS	118	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C2-PFOA	IS	76.1	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 22:04	1
13C2-PFOA	IS	65.1	50 - 150		B7L0183	26-Dec-17	0.235 L	16-Jan-18 11:02	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

Sample ID: SA-PZ118I-20171213

Modified EPA Method 537

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1701953-11	Column:	BEH C18
Project:	NWIRP Calverton Site 2 SA 112G08005-WE05	Date Collected:	13-Dec-17 13:20	Date Received:	14-Dec-17 11:33		
SDG:	WE05						

Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.928	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFHxA	ND	1.13	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFHpA	ND	0.306	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFHxS	ND	0.491	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFOA	1.08	0.337	2.59	4.15	J	B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFOS	0.646	0.418	2.59	4.15	J	B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFNA	5.94	0.420	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFDA	ND	0.772	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
MeFOSAA	ND	0.855	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFUnA	ND	0.544	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 11:14	1
EtFOSAA	ND	0.710	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFDoA	ND	0.411	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFTrDA	ND	0.256	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
PFTeDA	ND	0.391	2.59	4.15		B7L0183	26-Dec-17	0.241 L	16-Jan-18 11:14	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	92.1	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C2-PFHxA	IS	83.9	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C4-PFHpA	IS	88.2	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
18O2-PFHxS	IS	91.8	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C2-PFOA	IS	87.0	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C8-PFOS	IS	79.6	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C5-PFNA	IS	69.6	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C2-PFDA	IS	96.4	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
d3-MeFOSAA	IS	117	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C2-PFUnA	IS	77.2	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 11:14	1
d5-EtFOSAA	IS	95.1	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C2-PFDoA	IS	71.9	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 22:15	1
13C2-PFTeDA	IS	72.0	50 - 150		B7L0183	26-Dec-17	0.241 L	16-Jan-18 11:14	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

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

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

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

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

3 of 3



CHAIN OF CUSTODY

For Laboratory Use Only SR 12/15/17
 Work Order #: 1701953 Temp: 0.4, ~~2.5~~ °C
 Storage ID: WP-2 Storage Secured: Yes No

Project ID: NWIRP Calverton Site 2 SA 112G08005-WE05 PO#: _____ Sampler: Jacob Birkett
 (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Invoice to: Name Company Address City State Ph# Fax#
Tetra Tech 5700 Lakewright Dr. Suite 102 Norfolk VA 757.466.4902

Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time
Jacob Birkett 12-13-17 1630 → FedEx _____ _____

Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time
FedEx _____ _____ Ian Angeles 12/11/17 1129

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

Method of Shipment:
FedEx

Tracking No.:
810291020488

Add Analysis(es) Requested

Container(s)

Mod. EPA Method 537

EPA Method 537 (DW only)

Sample ID	Date	Time	Location/Sample Description	Add Analysis(es) Requested										Comments		
				Quantity	Type	Matrix	PFOA/PFOS	UCMR3 PFAS List 6	537 List 14	Full List of 26	Other: Please List Below	PFOA/PFOS	UCMR3 PFAS List 6		PFAS List 14	
<u>CV-Dup09-20171213</u>	<u>12-13-17</u>	<u>0900</u>	<u>—</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							<u>Duplicate</u>
<u>SA-MW127S-20171213</u>		<u>1035</u>	<u>SA-MW127S</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							
<u>SA-MW126S-20171213</u>		<u>1037</u>	<u>SA-MW126S</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							
<u>SA-MW126I-20171213</u>		<u>0934</u>	<u>SA-MW126I</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							
<u>SA-MW127S-FRB-20171213</u>		<u>1035</u>	<u>FRB</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							<u>FRB</u>
<u>SA-Dup10-20171213</u>		<u>1200</u>	<u>—</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							<u>Duplicate</u>
<u>SA-PZ123S-20171213</u>		<u>1315</u>	<u>SA-PZ123S</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							
<u>SA-PZ123I-20171213</u>		<u>1322</u>	<u>SA-PZ123I</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							
<u>SA-PZ123I1-20171213</u>		<u>1422</u>	<u>SA-PZ123I1</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							
<u>SA-PZ118S-20171213</u>		<u>1437</u>	<u>SA-PZ118S</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							
<u>SA-PZ118I-20171213</u>	<u>↓</u>	<u>1320</u>	<u>SA-PZ118I</u>	<u>2</u>	<u>P</u>	<u>AQ</u>			<u>2</u>							

Special Instructions/Comments:

SEND DOCUMENTATION AND RESULTS TO:

Name: _____
 Company: See first page
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Fax: _____
 Email: _____

Container Types: P= HDPE, PJ= HDPE Jar
 O = Other: _____
 Bottle Preservation Type: T = Thiosulfate,
 TZ = Trizma: _____
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: _____

Sample Log-in Checklist

 Vista Work Order #: 1701953 TAT Std

Samples Arrival:	Date/Time: 12/14/17 1133	Initials: IA	Location: WR-2 Shelf/Rack: N/A				
Logged In:	Date/Time: 12/15/17 0956	Initials: SR WWS	Location: WR-2 Shelf/Rack: F6				
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None			
Temp °C: 0.3 (uncorrected)	Time: 1134	Thermometer ID: IR-1					
Temp °C: 0.9 (corrected)	Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

	YES	NO	NA			
Adequate Sample Volume Received?	✓					
Holding Time Acceptable?	✓					
Shipping Container(s) Intact?	✓					
Shipping Custody Seals Intact?	✓					
Shipping Documentation Present?	✓					
Airbill <u>Lot 2</u> Trk # <u>7889 1916 9900</u>	✓					
Sample Container Intact?	✓					
Sample Custody Seals Intact?			✓			
Chain of Custody / Sample Documentation Present?			✓			
COC Anomaly/Sample Acceptance Form completed?	✓					
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓			
Preservation Documented:	<input type="checkbox"/> Na ₂ S ₂ O ₃	<input type="checkbox"/> Trizma	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Shipping Container	<u>12/15/17</u>	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose

 Comments: ~~sample label~~ ^{WWS} COC ID
SA-MW127S-20171213
sample label
SA-MW127S-121317

Chain of Custody Anomaly/Sample Acceptance Form



Tetra Tech
 Kristi Francisco
 Kristi.Francisco@tetratech.com
 (757) 466-4902

Workorder Number: 1701953
 Date Received: 14-Dec-17 11:33
 Documented by/date: S.Roughton 12/15/17

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

Thank you,

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

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

Chain of Custody ID	Container Label ID
SA-MW127S-20171213	SA-MW127S-121317

Client Authorization

Proceed with Analysis: YES NO Signature and Date Karen J. W. 1/22/18
 Client Comments/Instructions per client email on 12/18/17, the correct sample ID is "SA-MW127S-20171213."

EXTRACTION INFORMATION

Process Sheet
 Workorder: **1701953**

Prep Expiration: 2017-Dec-27
 Client: Tetra Tech

Workorder Due: 08-Jan-18 00:00

TAT: 25

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

Prep Batch: B7L0183

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

Prep Data Entered: MA 12-27-17
Date and Initials

Initial Sequence: S8A0051

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701953-01	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CV-Dup09-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-02		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-MW127S-20171213	"SA-MW127S-121317" MA 12-26-17	WR-2 F-6	HDPE Bottle, 250 mL
1701953-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-MW126S-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-MW126I-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-MW127S-FRB-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-06		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-Dup10-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-PZ123S-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-08		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-PZ123I-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-09		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-PZ123I1-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-10		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-PZ118S-20171213		WR-2 F-6	HDPE Bottle, 250 mL
1701953-11		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA-PZ118I-20171213		WR-2 F-6	HDPE Bottle, 250 mL

**WO Comments: Provide all analytical runs.
 MS/MSD per batch, if MS/MSD is not provided - LCS/LCSD.**

Pre-Prep Check Out: MA 12-26-17 Prep Check Out: NA
 Pre-Prep Check In: NA Prep Check In: NA

Prep Reconciled Initials/Date: MA 12-26-17
 Spike Reconciled Initials/Date: KC 12/26/17
 VialBoxID: Jellyfish Rancher Hugo

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mRL)

B7L0183

Chemist: KL

Prep Date/Time: 26-Dec-17 08:19

1200
KL
12/26/17

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initials: MA 12-26-17 BalanceID: HRMS-8

Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
<input type="checkbox"/>	B7L0183-BLK1	5	2	0	4	NA	NA	(0.250)	KL MA 12/26/17	KL 12/26/17	KL 12/26/17
<input type="checkbox"/>	B7L0183-BS1	5	2	0	4	NA	NA	(0.250)			
<input type="checkbox"/>	B7L0183-BSD1	5	2	0	4	NA	NA	(0.250)			
<input type="checkbox"/>	1701953-01	5	2	0	4	283.91	27.11	0.25680 ✓			
<input checked="" type="checkbox"/>	1701953-02	5	2	0	4	263.77	27.53	0.23624 ✓			
<input checked="" type="checkbox"/>	1701953-03	5	2	0	4	270.64	27.77	0.24287 ✓			
<input type="checkbox"/>	1701953-04	5	2	0	4	268.59	27.53	0.24106 ✓			
<input type="checkbox"/>	1701953-05	5	2	0	4	282.70	27.64	0.25506 ✓			
<input checked="" type="checkbox"/>	1701953-06	5	2	0	4	285.23	27.54	0.25769 ✓			
<input checked="" type="checkbox"/>	1701953-07	5	2	0	4	270.06	27.61	0.24245 ✓			
<input checked="" type="checkbox"/>	1701953-08	5	2	0	4	284.62	27.60	0.25702 ✓			
<input type="checkbox"/>	1701953-09	5	2	0	4	284.48	27.01	0.25747 ✓			
<input checked="" type="checkbox"/>	1701953-10	5	2	0	4	262.85	27.80	0.23505 ✓			
<input checked="" type="checkbox"/>	1701953-11	5	2	0	4	268.03	26.91	0.24112 ✓			

IS: <u>17L0402, 10 mL (V2)</u>	SPE Chem: <u>Strata-X-AW 33um 200mg 6mL</u>	Notes:
IS SUP: <u>NA</u>	Ele SOLV: <u>MeOH, 1.5% NH₄OH in MeOH</u>	
NS: <u>17J1820, 10 mL (V2) (V5)</u>	Final Volume(s) <u>1 mL</u>	
RS: <u>17K2502, 10 mL (V1) KL 12/26/17</u>		

Comments: Assume 1 g = 1 mL

Cen = Centrifuged
Work Order 1701953

Batch: B7L0183

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701953-01	0.2568 ✓	NA	NA	1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-02	0.23624 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-03	0.24287 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-04	0.24106 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-05	0.25506 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-06	0.25769 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-07	0.24245 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-08	0.25702 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-09	0.25747 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-10	0.23505 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
1701953-11	0.24112 ✓			1000	26-Dec-17 12:00	KC			Aqueous	537M PFAS DOD (LOQ as
B7L0183-BLK1	0.25 ✓			1000	26-Dec-17 12:00	KC				QC
B7L0183-BS1	0.25 ✓			1000	26-Dec-17 12:00	KC	17J1820 ✓	10		QC
B7L0183-BSD1	0.25 ✓			1000	26-Dec-17 12:00	KC	17J1820 ✓	10		QC

✓ MA 12-27-17

SAMPLE DATA – MODIFIED EPA METHOD 537

Dataset: U:\Q4.PRO\results\180115M2\180115M2-47.qld

Last Altered: Tuesday, January 16, 2018 13:04:54 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:05:08 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_47, Date: 16-Jan-2018, Time: 09:01:13, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.36e2	0.250		2.87				
2	4 PFHxA	313.2 > 268.9		2.02e3	0.250		3.36				
3	5 PFHpA	363.0 > 318.9		5.65e3	0.250		4.00				
4	6 L-PFHxS	398.9 > 79.6	4.21e0	6.87e2	0.250		4.14	3.97	0.0766	0.0725	
5	9 L-PFOA	413 > 368.7		7.28e3	0.250		4.50				
6	12 PFNA	463.0 > 418.8		5.78e3	0.250		4.94				
7	14 L-PFOS	499 > 79.9		1.80e3	0.250		5.02				
8	16 PFDA	513 > 468.8		4.99e3	0.250		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.22e3	0.250		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.14e3	0.250		5.60				
11	20 PFUdA	563.0 > 518.9		5.68e3	0.250		5.62				
12	22 PFDaA	612.9 > 569.0		3.53e3	0.250		5.91				

Use only.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-47.qld

Last Altered: Tuesday, January 16, 2018 13:04:54 Pacific Standard Time

Printed: Tuesday, January 16, 2018 15:38:56 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_47, Date: 16-Jan-2018, Time: 09:01:13, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.53e3	0.250		6.15				
2	25 PFTeDA	712.9 > 668.8		2.37e3	0.250		6.35				
3	33 13C3-PFBS	302. > 98.8	9.36e2	8.88e3	0.250	0.095	2.87	2.72	1.32	55.4981	111.0
4	34 13C2-PFHxA	315 > 269.8	2.02e3	8.88e3	0.250	0.636	3.36	3.22	2.84	17.8696	89.3
5	35 13C4-PFHpA	367.2 > 321.8	5.65e3	8.88e3	0.250	0.621	4.00	3.84	7.95	51.2468	102.5
6	36 18O2-PFHxS	403.0 > 102.6	6.87e2	2.08e3	0.250	0.336	4.14	3.98	4.13	49.1522	98.3
7	37 13C2-6:2 FTS	429.1 > 408.9	1.34e3	8.04e3	0.250	0.192	4.46	4.30	2.08	43.2676	86.5
8	38 13C2-PFOA	414.9 > 369.7	7.28e3	8.04e3	0.250	1.001	4.50	4.36	11.3	45.2265	90.5
9	39 13C5-PFNA	468.2 > 422.9	5.78e3	7.57e3	0.250	0.811	4.94	4.78	9.55	47.1164	94.2
10	40 13C8-PFOSA	506.1 > 77.7	8.65e2	8.81e3	0.250	0.196	5.00	4.85	1.23	24.9951	50.0
11	41 13C8-PFOS	507.0 > 79.9	1.80e3	2.28e3	0.250	0.862	5.02	4.86	9.86	45.7687	91.5
12	42 13C2-PFDA	515.1 > 469.9	4.99e3	5.64e3	0.250	0.996	5.31	5.16	11.0	44.3533	88.7
13	43 13C2-8:2 FTS	529.1 > 508.7	5.97e2	8.88e3	0.250	0.103	5.28	5.12	0.840	32.6415	65.3
14	44 d3-N-MeFOSAA	573.3 > 419	2.22e3	8.81e3	0.250	0.340	5.45	5.30	3.14	37.0018	74.0
15	45 d5-N-EtFOSAA	589.3 > 419	2.14e3	8.81e3	0.250	0.377	5.60	5.45	3.04	32.2735	64.5
16	46 13C2-PFUdA	565 > 519.8	5.68e3	8.81e3	0.250	0.944	5.62	5.47	8.07	34.2069	68.4
17	47 13C2-PFDoA	615.0 > 569.7	3.53e3	8.81e3	0.250	0.726	5.91	5.76	5.02	27.6339	55.3
18	49 13C2-PFTeDA	714.8 > 669.6	2.37e3	8.81e3	0.250	0.371	6.35	6.20	3.37	36.2519	72.5
19	55 13C5-PFHxA	318 > 272.9	8.88e3	8.88e3	0.250	1.000	3.36	3.22	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.08e3	2.08e3	0.250	1.000	4.14	3.98	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	8.04e3	8.04e3	0.250	1.000	4.50	4.36	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.57e3	7.57e3	0.250	1.000	4.94	4.78	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	2.28e3	2.28e3	0.250	1.000	5.02	4.86	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.64e3	5.64e3	0.250	1.000	5.31	5.16	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.81e3	8.81e3	0.250	1.000	5.62	5.47	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	4.21e0	6.87e2	0.250		4.14		0.0766	0.0725	
27	63 Total PFOA	413 > 368.7	0.00e0	7.28e3	0.250		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	1.80e3	0.250		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.22e3	0.250		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.14e3	0.250		5.61		0.000		

Use only

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Last Altered: Tuesday, January 16, 2018 13:04:54 Pacific Standard Time

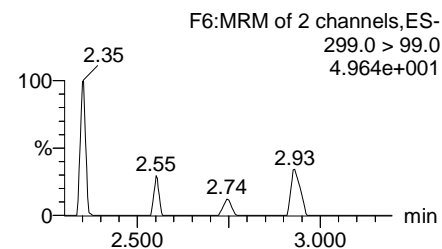
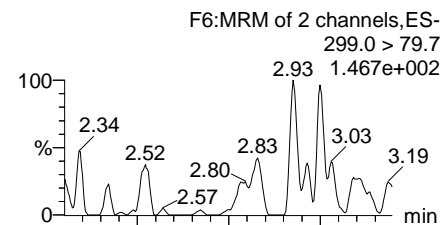
Printed: Tuesday, January 16, 2018 13:05:18 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

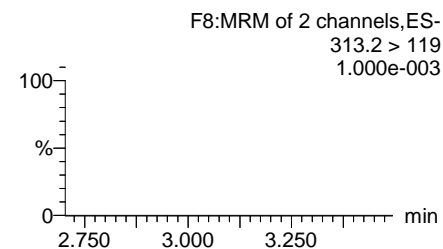
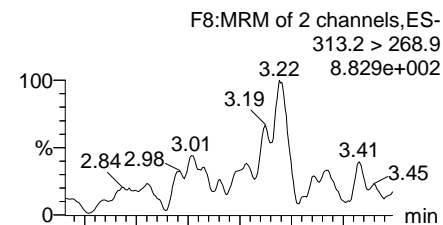
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_47, Date: 16-Jan-2018, Time: 09:01:13, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

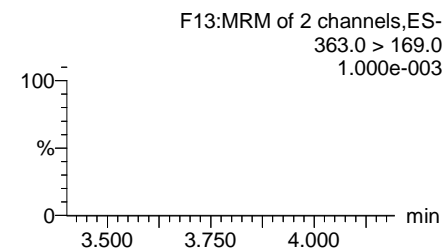
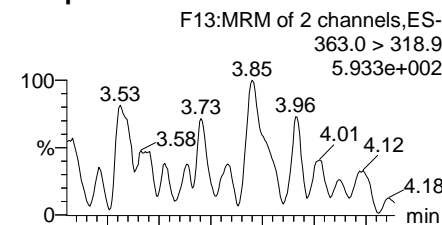
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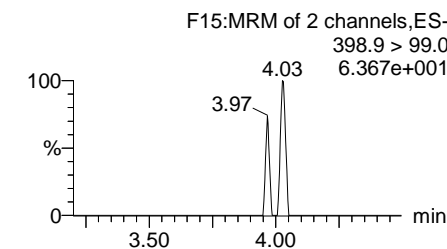
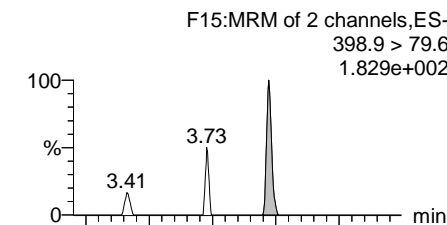
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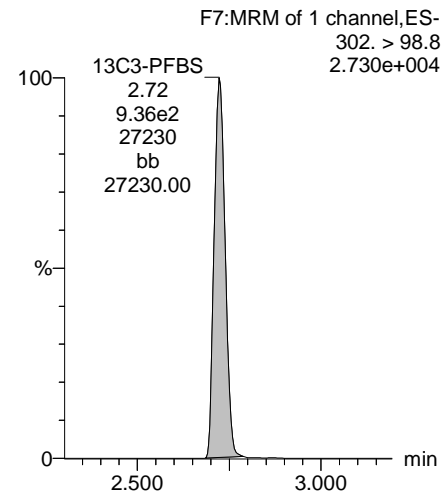
PFHpA



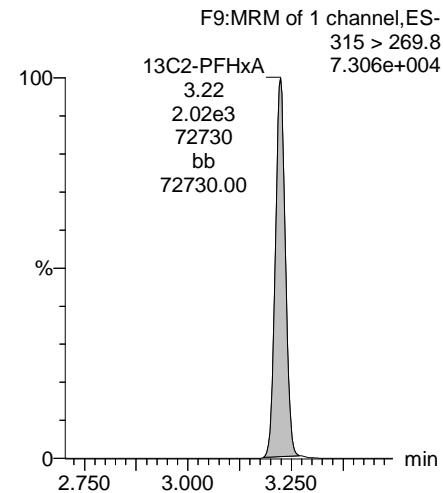
Total PFHxS



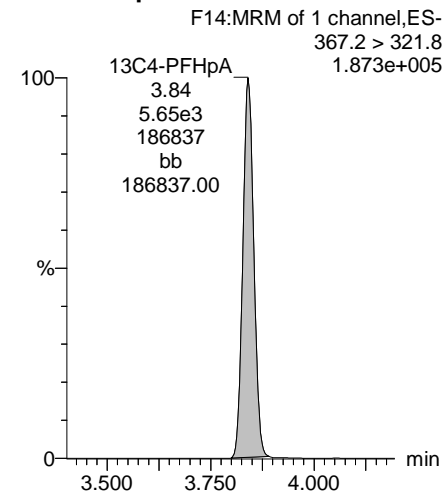
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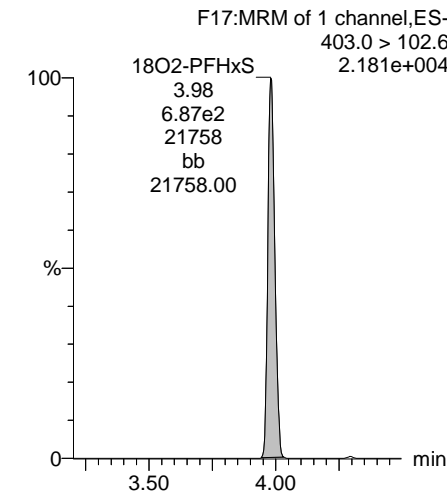
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

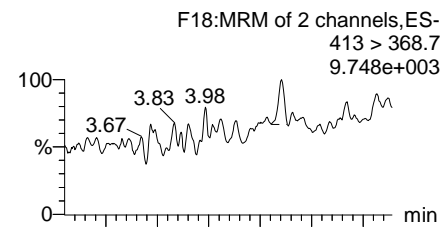


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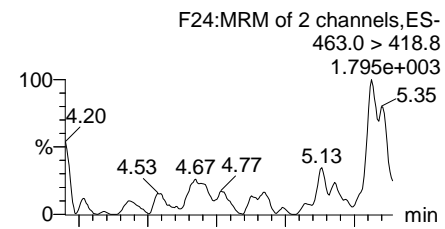
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Printed: Tuesday, January 16, 2018 13:05:18 Pacific Standard Time

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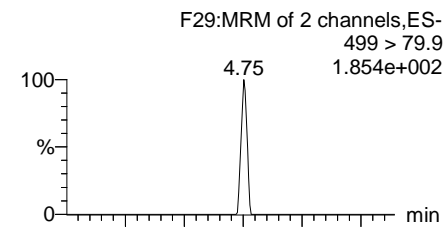
Total PFOA



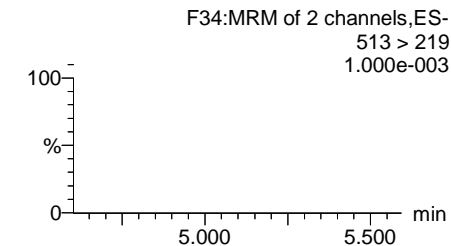
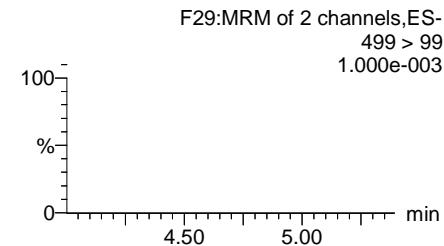
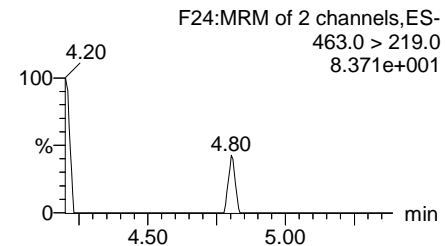
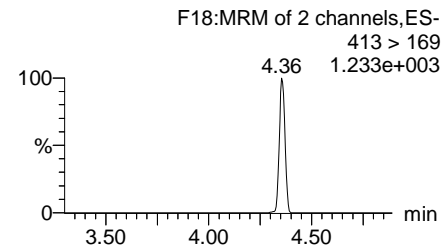
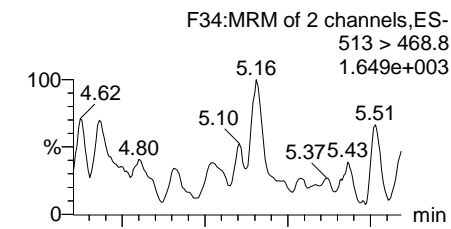
PFNA



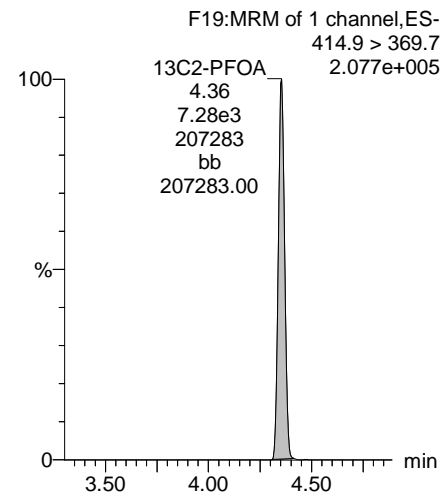
Total PFOS



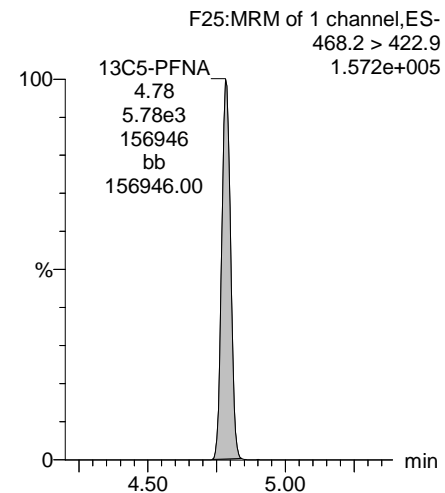
PFDA



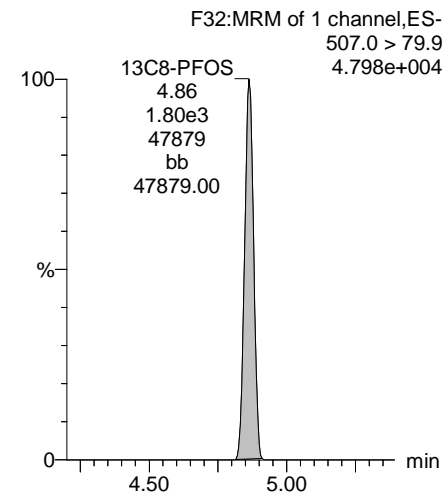
13C2-PFOA



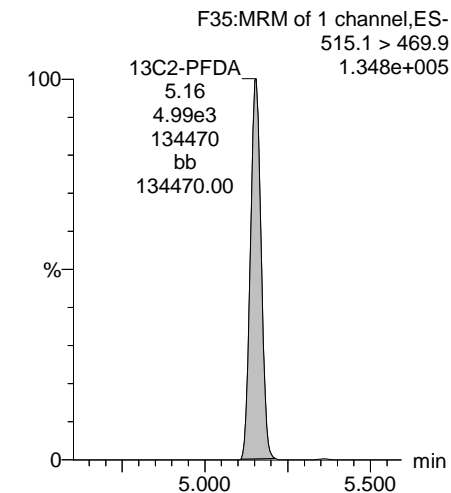
13C5-PFNA



13C8-PFOS



13C2-PFDA

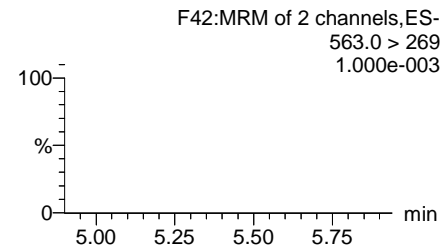
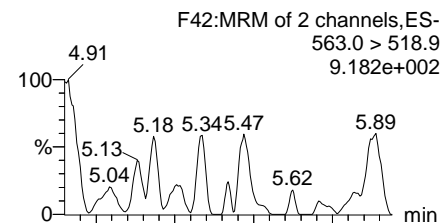


Dataset: U:\Q4.PRO\results\180115M2\180115M2-47.qld

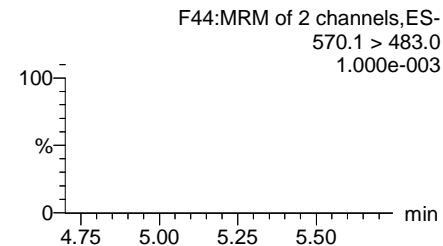
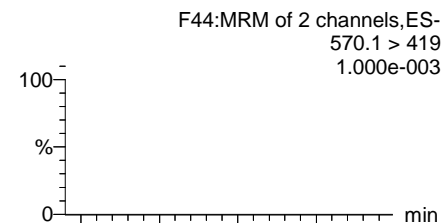
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Printed: Tuesday, January 16, 2018 13:05:18 Pacific Standard Time

Name: 180115M2_47, Date: 16-Jan-2018, Time: 09:01:13, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

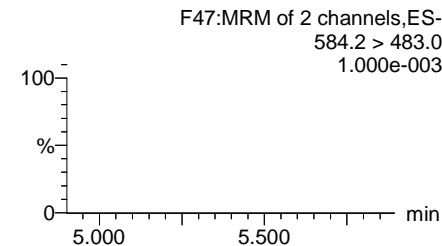
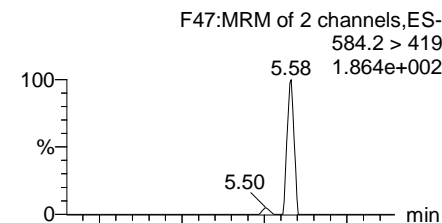
PFUdA



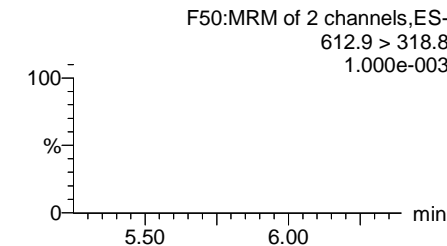
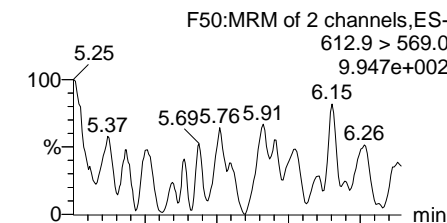
N-MeFOSAA



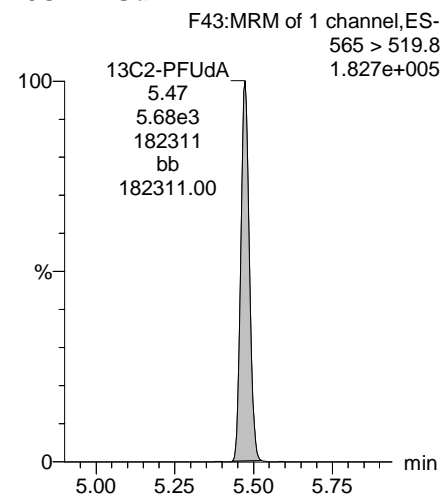
N-EtFOSAA



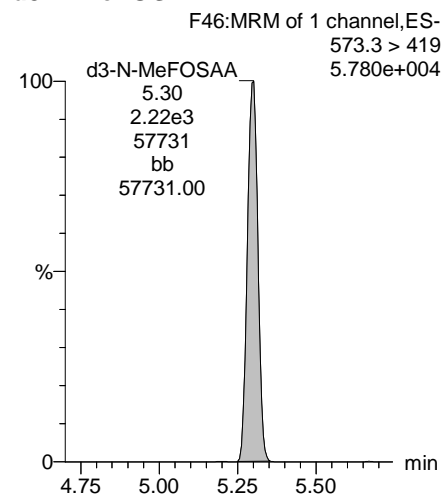
PFDoA



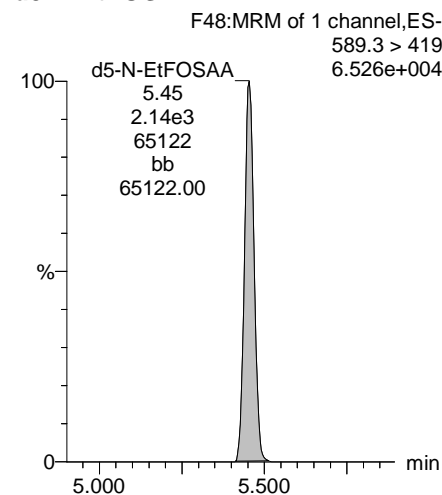
13C2-PFUdA



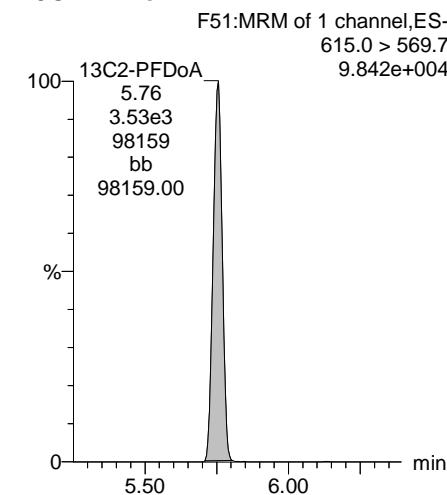
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



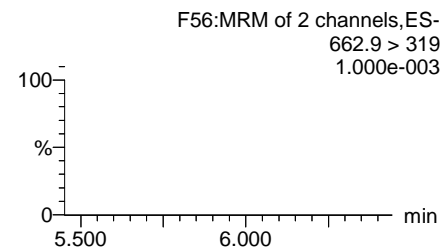
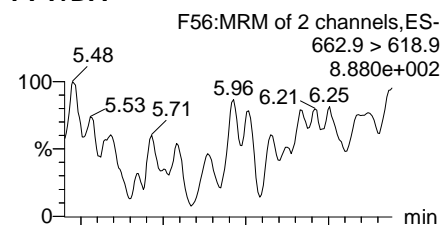
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Last Altered: Tuesday, January 16, 2018 13:04:54 Pacific Standard Time

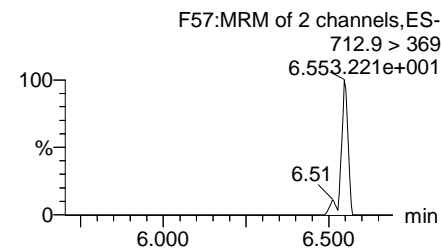
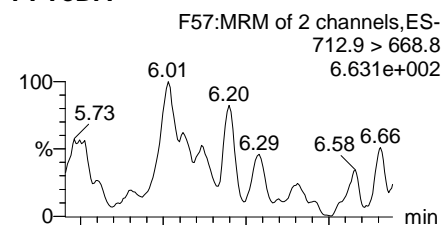
Printed: Tuesday, January 16, 2018 13:05:18 Pacific Standard Time

Name: 180115M2_47, Date: 16-Jan-2018, Time: 09:01:13, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

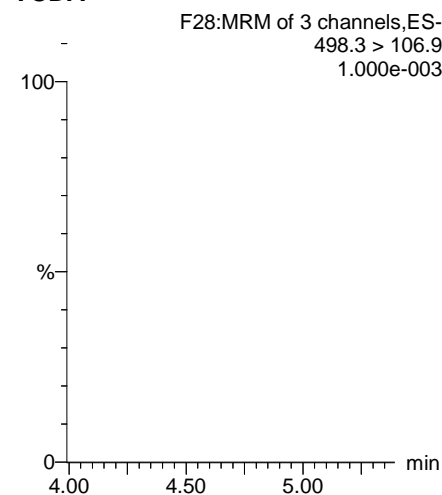
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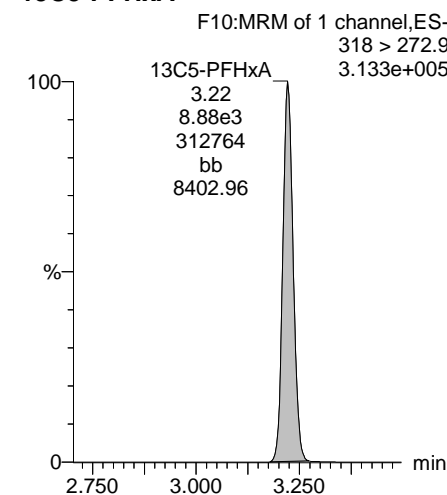
PFTeDA



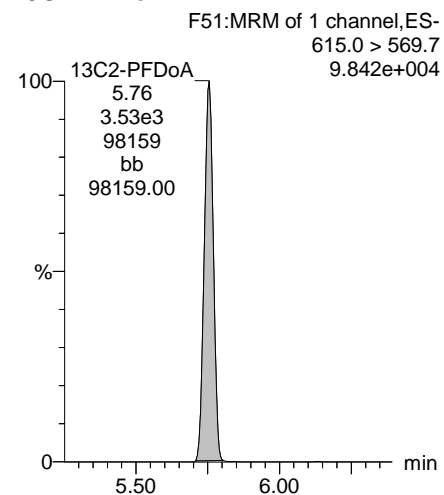
TCDA



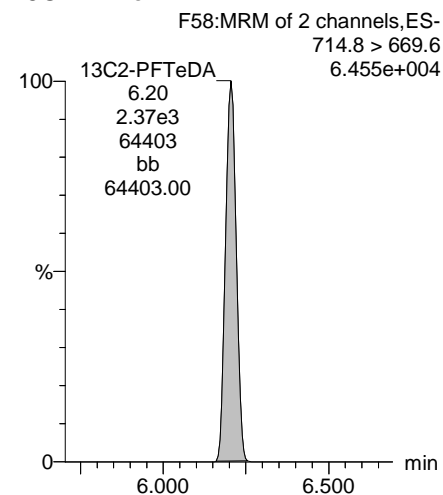
13C5-PFHxA



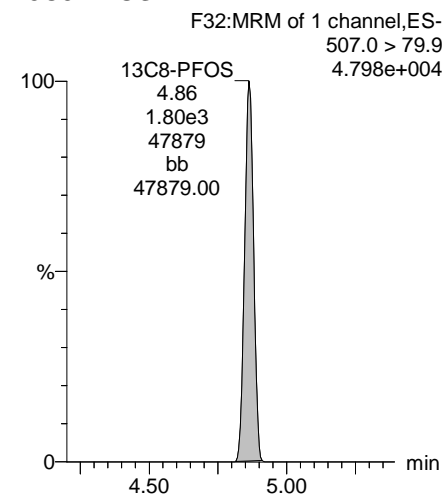
13C2-PFDoA



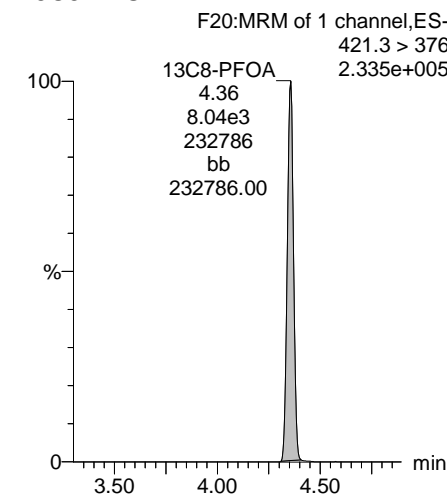
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-47.qld

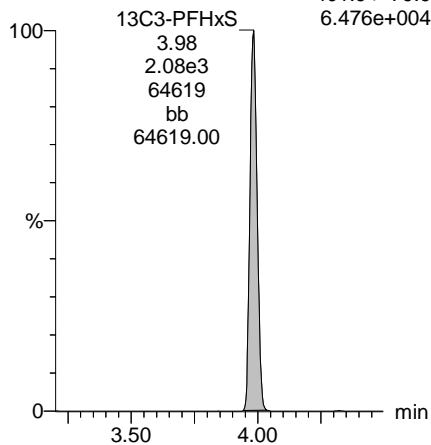
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Printed: Tuesday, January 16, 2018 13:05:18 Pacific Standard Time

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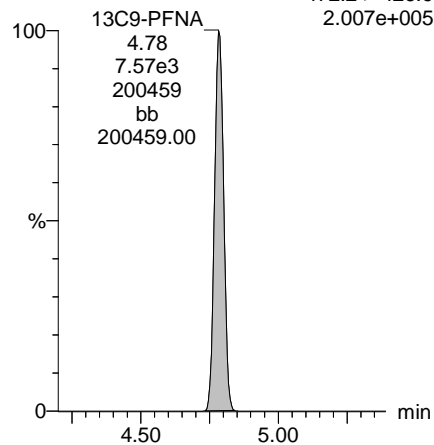
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
6.476e+004



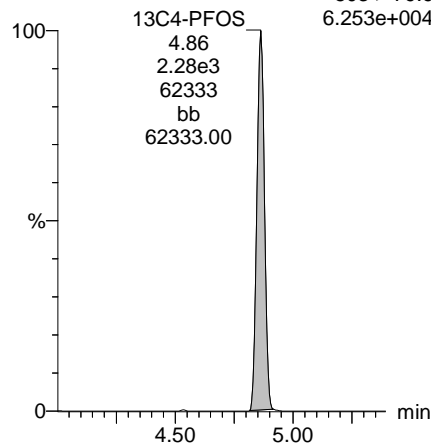
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.007e+005



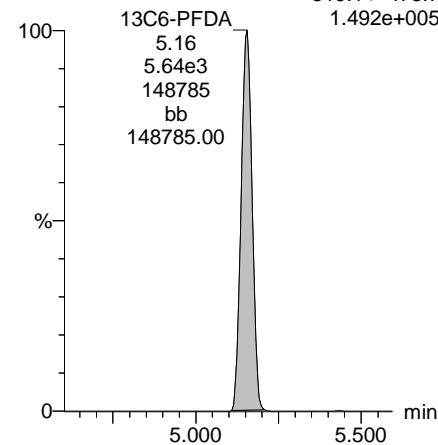
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.253e+004



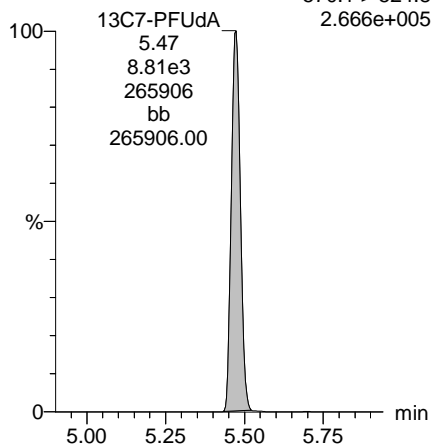
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.492e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.666e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-96.qld

Last Altered: Thursday, January 18, 2018 10:59:24 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:00:21 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_96, Date: 16-Jan-2018, Time: 18:49:41, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.55e2	0.250		2.87				
2	4 PFHxA	313.2 > 268.9		2.05e3	0.250		3.36				
3	5 PFHpA	363.0 > 318.9		5.37e3	0.250		4.00				
4	6 L-PFHxS	398.9 > 79.6	2.35e0	7.41e2	0.250		3.94	3.92	0.0396	0.0023	
5	9 L-PFOA	413 > 368.7		7.22e3	0.250		4.34				
6	12 PFNA	463.0 > 418.8		6.61e3	0.250		4.94				
7	14 L-PFOS	499 > 79.9		1.79e3	0.250		5.02				
8	16 PFDA	513 > 468.8		4.83e3	0.250		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.11e3	0.250		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.57e3	0.250		5.60				
11	20 PFUdA	563.0 > 518.9		5.14e3	0.250		5.62				
12	22 PFDoA	612.9 > 569.0		3.00e3	0.250		5.91				

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-96.qld

Last Altered: Thursday, January 18, 2018 10:59:24 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:00:32 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_96, Date: 16-Jan-2018, Time: 18:49:41, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.00e3	0.250		6.15				
2	25 PFTeDA	712.9 > 668.8		2.21e3	0.250		6.35				
3	33 13C3-PFBS	302. > 98.8	9.55e2	8.96e3	0.250	0.095	2.87	2.67	1.33	56.0867	112.2
4	34 13C2-PFHxA	315 > 269.8	2.05e3	8.96e3	0.250	0.636	3.36	3.17	2.86	17.9711	89.9
5	35 13C4-PFHpA	367.2 > 321.8	5.37e3	8.96e3	0.250	0.621	4.00	3.79	7.49	48.2614	96.5
6	36 18O2-PFHxS	403.0 > 102.6	7.41e2	2.27e3	0.250	0.336	4.14	3.93	4.08	48.5722	97.1
7	37 13C2-6:2 FTS	429.1 > 408.9	1.33e3	7.96e3	0.250	0.192	4.46	4.25	2.09	43.5122	87.0
8	38 13C2-PFOA	414.9 > 369.7	7.22e3	7.96e3	0.250	1.001	4.50	4.31	11.3	45.2772	90.6
9	39 13C5-PFNA	468.2 > 422.9	6.61e3	9.08e3	0.250	0.811	4.94	4.73	9.09	44.8614	89.7
10	40 13C8-PFOA	506.1 > 77.7	9.81e2	7.86e3	0.250	0.196	5.00	4.80	1.56	31.7630	63.5
11	41 13C8-PFOS	507.0 > 79.9	1.79e3	2.16e3	0.250	0.862	5.02	4.82	10.4	48.1697	96.3
12	42 13C2-PFDA	515.1 > 469.9	4.83e3	5.18e3	0.250	0.996	5.31	5.11	11.7	46.8034	93.6
13	43 13C2-8:2 FTS	529.1 > 508.7	7.64e2	8.96e3	0.250	0.103	5.28	5.08	1.07	41.4321	82.9
14	44 d3-N-MeFOSAA	573.3 > 419	2.11e3	7.86e3	0.250	0.340	5.45	5.26	3.36	39.4836	79.0
15	45 d5-N-EtFOSAA	589.3 > 419	2.57e3	7.86e3	0.250	0.377	5.60	5.41	4.09	43.4043	86.8
16	46 13C2-PFUdA	565 > 519.8	5.14e3	7.86e3	0.250	0.944	5.62	5.43	8.17	34.6199	69.2
17	47 13C2-PFDoA	615.0 > 569.7	3.00e3	7.86e3	0.250	0.726	5.91	5.71	4.77	26.2669	52.5
18	49 13C2-PFTeDA	714.8 > 669.6	2.21e3	7.86e3	0.250	0.371	6.35	6.17	3.52	37.8888	75.8
19	55 13C5-PFHxA	318 > 272.9	8.96e3	8.96e3	0.250	1.000	3.36	3.17	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.27e3	2.27e3	0.250	1.000	4.14	3.93	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	7.96e3	7.96e3	0.250	1.000	4.50	4.31	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.08e3	9.08e3	0.250	1.000	4.94	4.74	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	2.16e3	2.16e3	0.250	1.000	5.02	4.82	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.18e3	5.18e3	0.250	1.000	5.31	5.11	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.86e3	7.86e3	0.250	1.000	5.62	5.43	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	2.35e0	7.41e2	0.250		4.14		0.0396	0.0023	
27	63 Total PFOA	413 > 368.7	0.00e0	7.22e3	0.250		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	1.79e3	0.250		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.11e3	0.250		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.57e3	0.250		5.61		0.000		

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-96.qld

Last Altered: Thursday, January 18, 2018 10:59:24 Pacific Standard Time

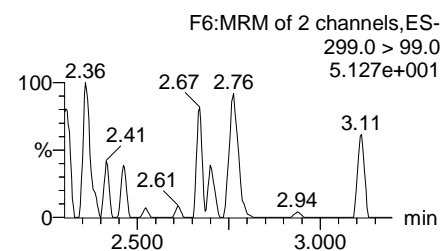
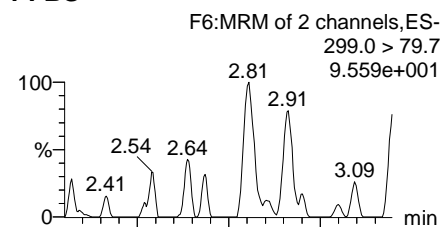
Printed: Thursday, January 18, 2018 11:00:32 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

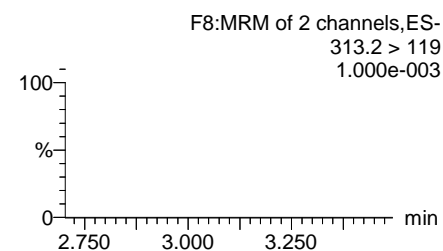
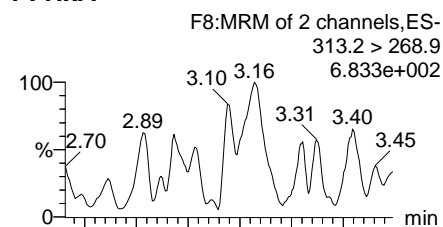
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Name: 180115M2_96, Date: 16-Jan-2018, Time: 18:49:41, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

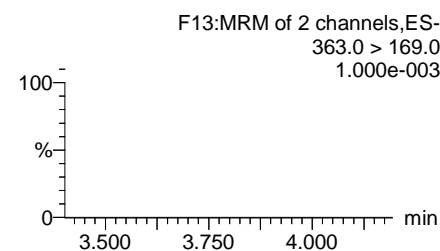
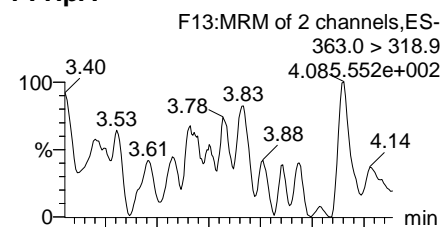
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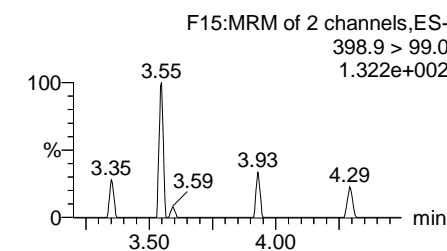
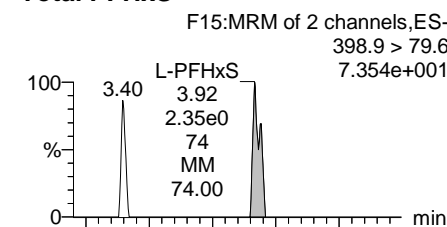
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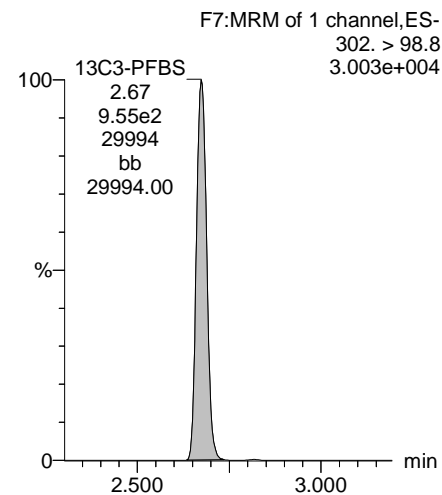
PFHpA



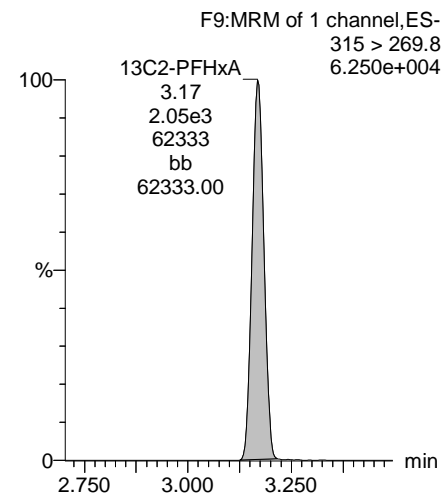
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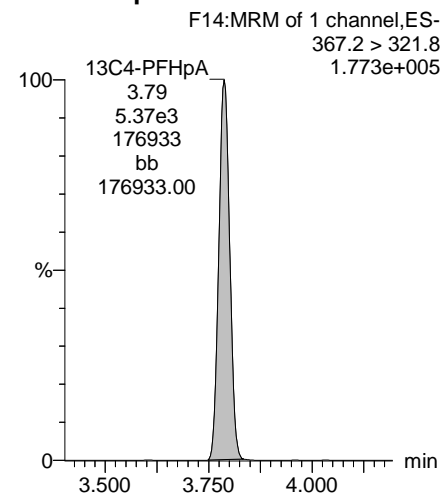
13C3-PFBS



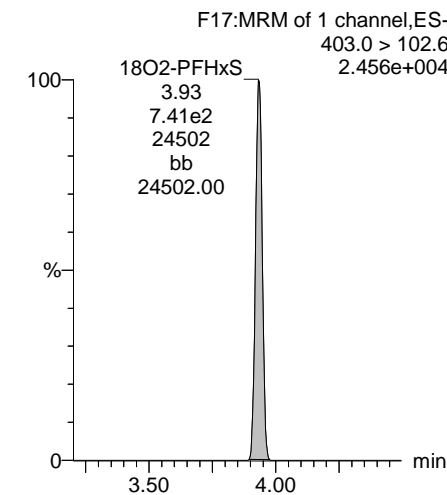
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

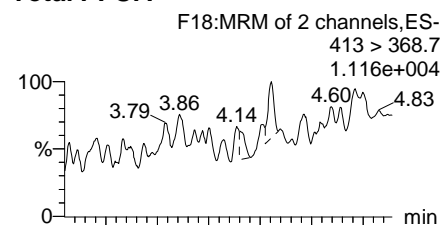


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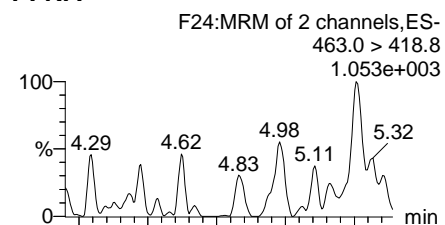
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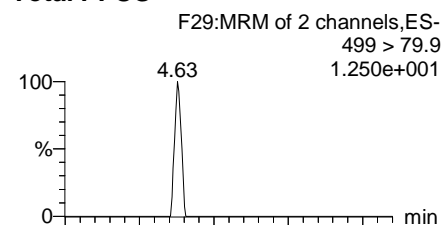
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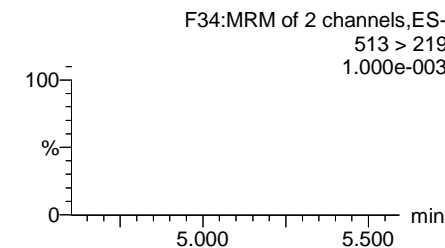
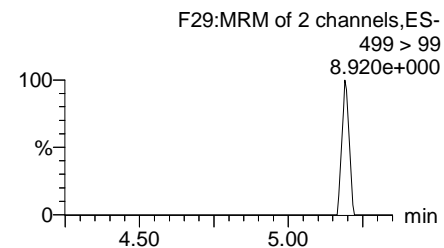
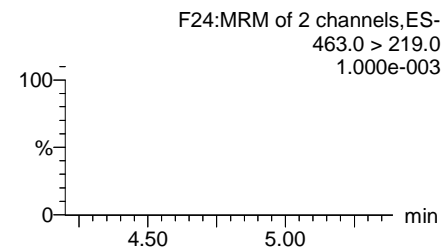
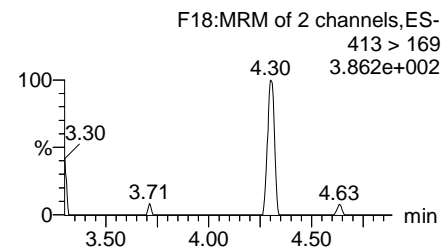
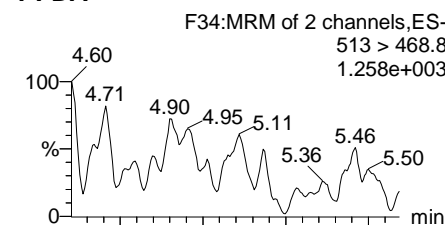
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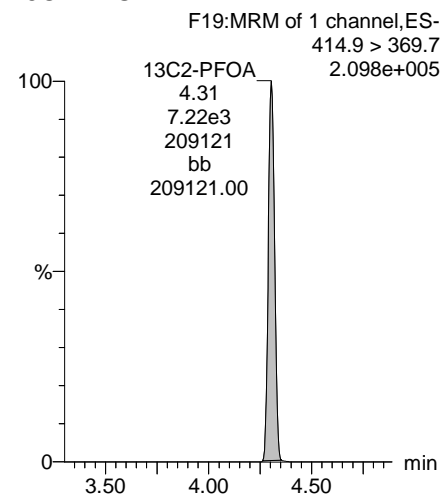
Total PFOS



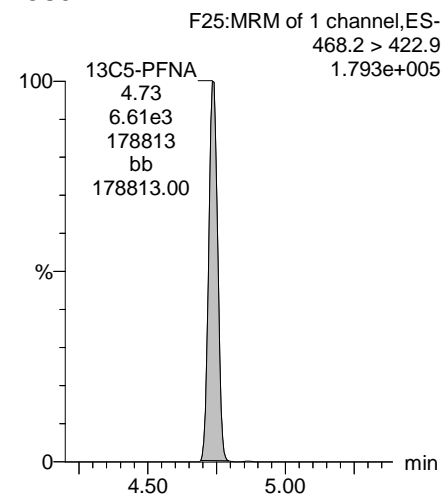
PFDA



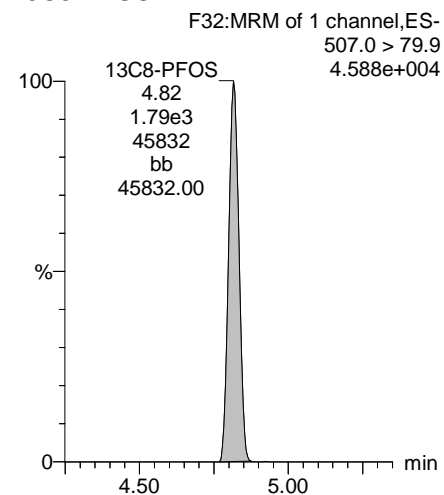
13C2-PFOA



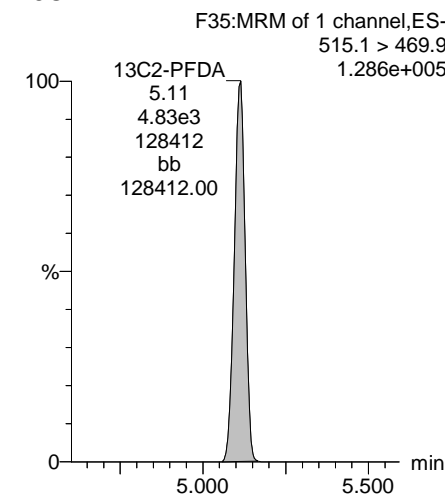
13C5-PFNA



13C8-PFOS



13C2-PFDA

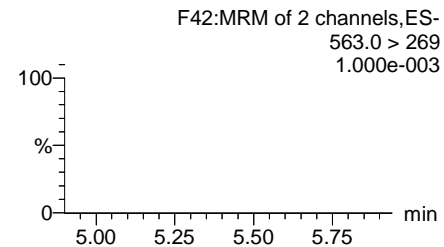
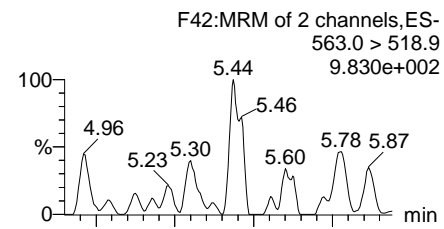


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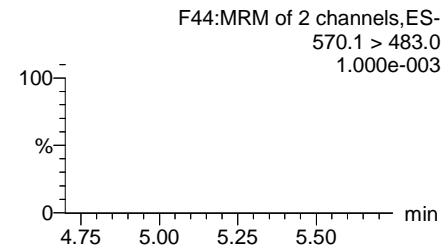
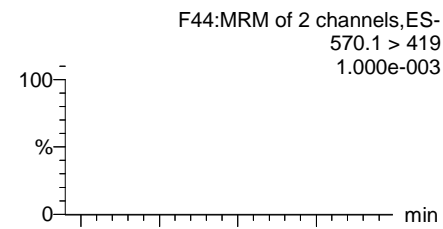
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Printed: Thursday, January 18, 2018 11:00:32 Pacific Standard Time

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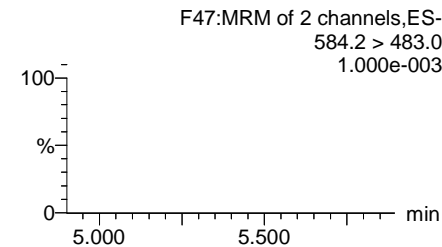
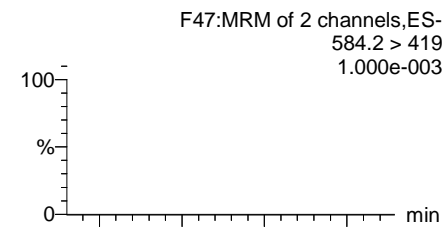
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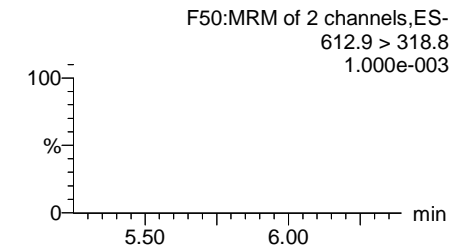
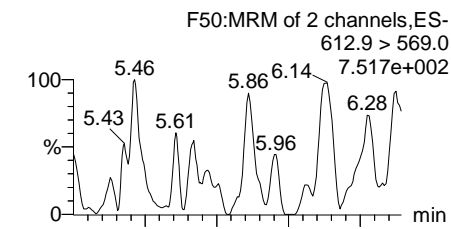
N-MeFOSAA



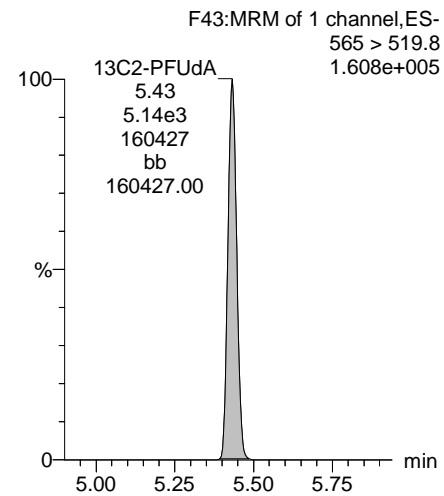
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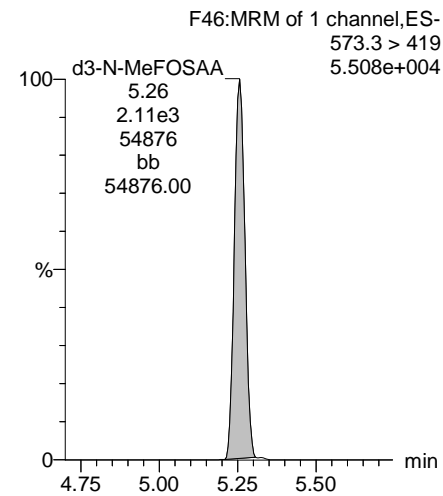
PFDaA



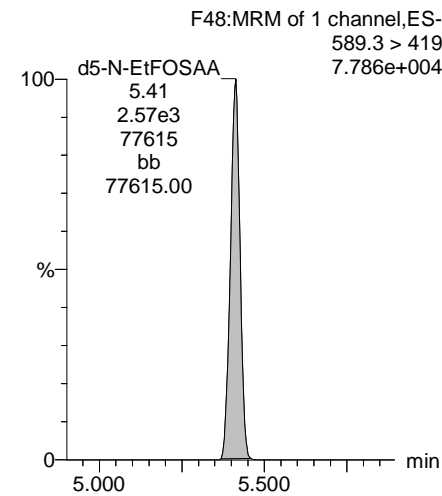
13C2-PFUDa



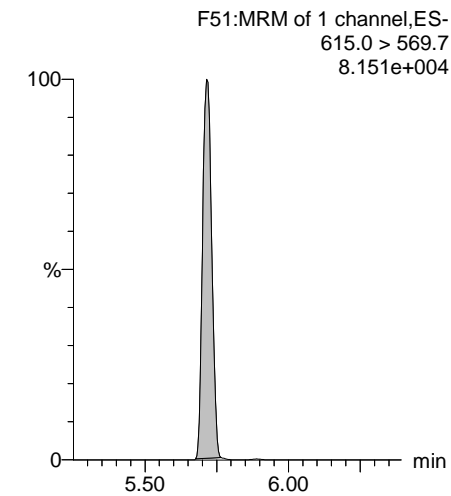
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA

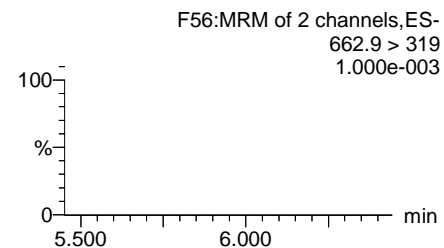
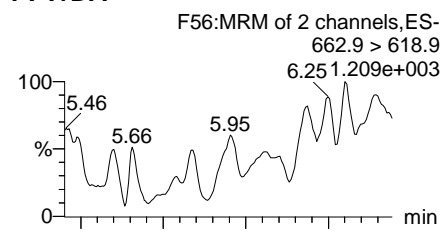


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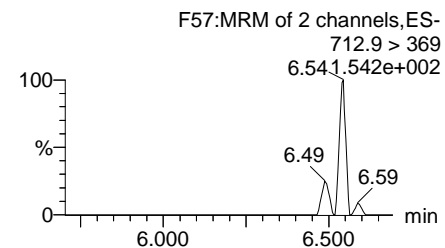
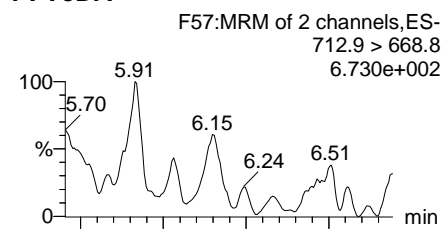
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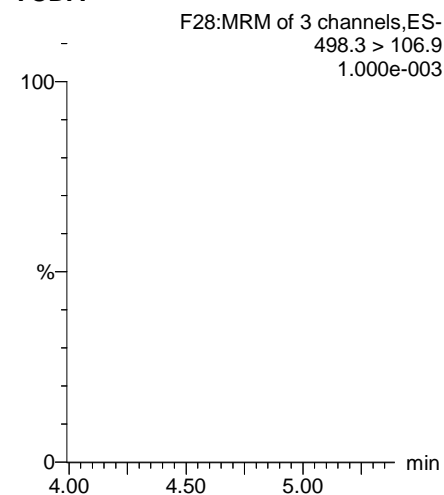
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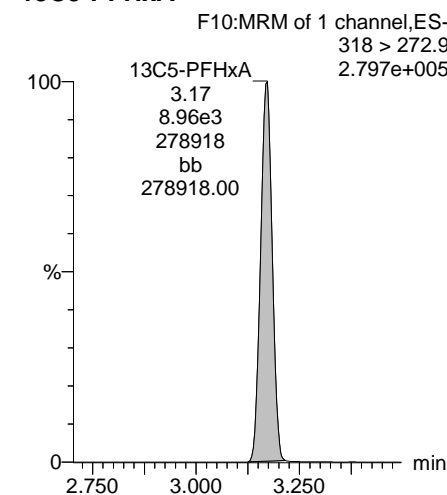
PFTeDA



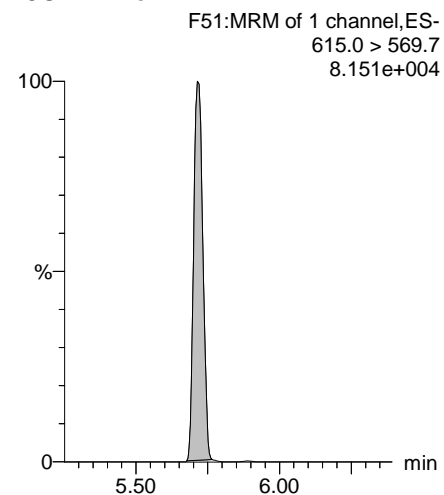
TCDA



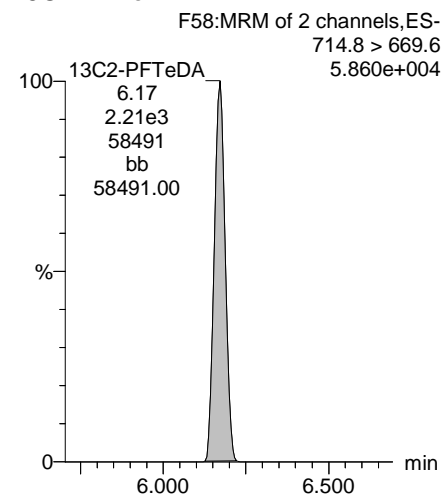
13C5-PFHxA



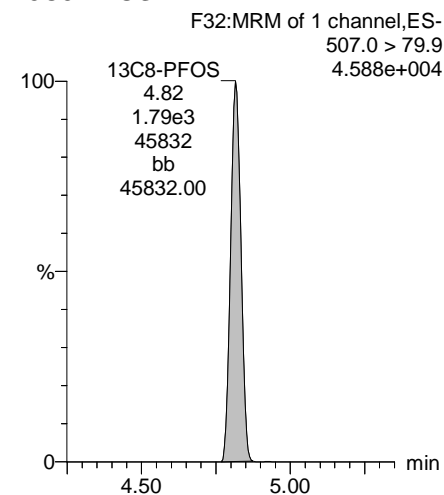
13C2-PFDoA



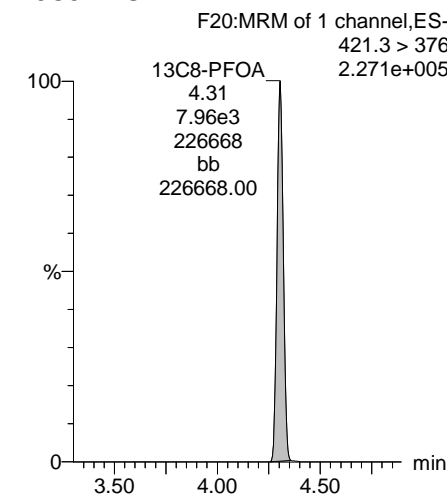
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-96.qld

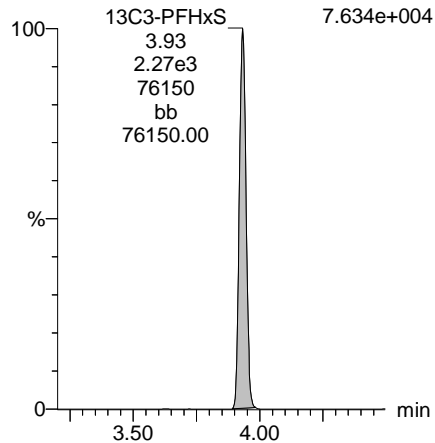
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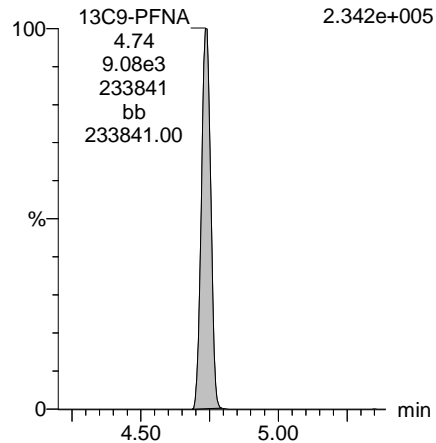
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.634e+004



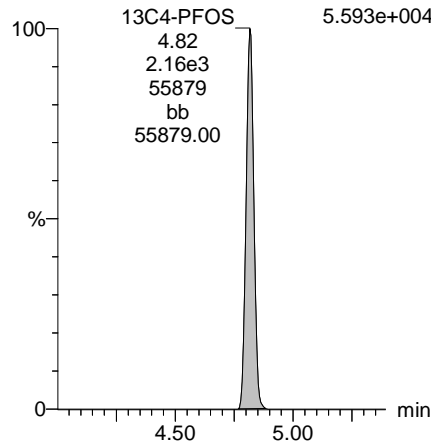
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.342e+005



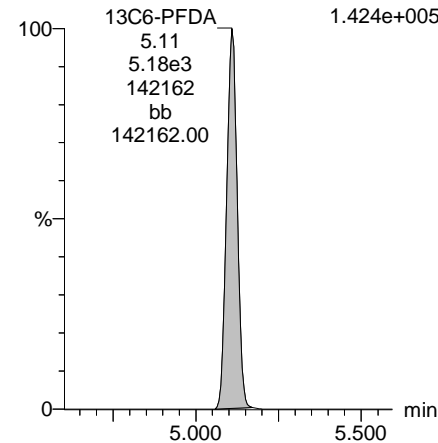
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
5.593e+004



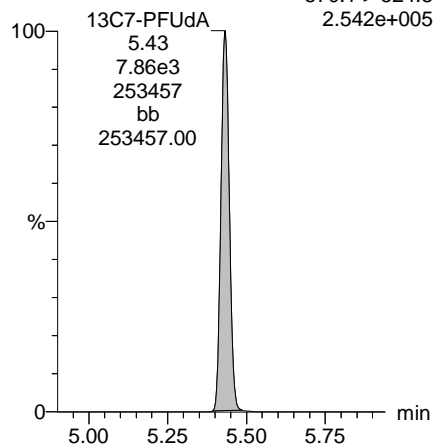
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.424e+005



13C7-PFUDa

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.542e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-45.qld

Last Altered: Tuesday, January 16, 2018 12:55:39 Pacific Standard Time

Printed: Tuesday, January 16, 2018 12:56:37 Pacific Standard Time

See RI for all except PFUDA and PFTeDA

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

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

Name: 180115M2_45, Date: 16-Jan-2018, Time: 08:38:20, ID: B7L0183-BS1 OPR 0.25, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	1.85e3	1.09e3	0.250		2.87	2.73	21.2	44.1714	110.4
2	4 PFHxA	313.2 > 268.9	8.86e3	2.27e3	0.250		3.36	3.23	19.5	44.3770	110.9
3	5 PFHpA	363.0 > 318.9	6.77e3	5.39e3	0.250		4.00	3.84	15.7	42.1538	105.4
4	6 L-PFHxS	398.9 > 79.6	1.32e3	8.50e2	0.250		4.14	3.98	19.4	38.7489	96.9
5	9 L-PFOA	413 > 368.7	8.06e3	8.85e3	0.250		4.50	4.36	11.4	39.4109	98.5
6	12 PFNA	463.0 > 418.8	7.18e3	6.12e3	0.250		4.94	4.78	14.7	43.0341	107.6
7	14 L-PFOS	499 > 79.9	1.83e3	2.05e3	0.250		5.02	4.86	11.2	40.1390	100.3
8	16 PFDA	513 > 468.8	7.36e3	5.07e3	0.250		5.31	5.15	18.1	50.2508	125.6
9	18 N-MeFOSAA	570.1 > 419	2.97e3	2.13e3	0.250		5.45	5.30	17.4	42.2375	105.6
10	19 N-EtFOSAA	584.2 > 419	2.78e3	2.48e3	0.250		5.60	5.45	14.0	43.4371	108.6
11	20 PFUDA	563.0 > 518.9	5.92e3	6.57e3	0.250		5.62	5.47	11.3	35.2737	88.2
12	22 PFDaA	612.9 > 569.0	6.64e3	4.21e3	0.250		5.91	5.75	19.7	54.1520	135.4

Use only

H

Dataset: U:\Q4.PRO\results\180115M2\180115M2-45.qld

Last Altered: Tuesday, January 16, 2018 12:55:39 Pacific Standard Time

Printed: Tuesday, January 16, 2018 15:35:12 Pacific Standard Time

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

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

Name: 180115M2_45, Date: 16-Jan-2018, Time: 08:38:20, ID: B7L0183-BS1 OPR 0.25, Description: OPR

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9	9.36e3	4.21e3	0.250		6.15	5.99	27.8	51.9580	129.9
2	25 PFTeDA	712.9 > 668.8	5.18e3	2.44e3	0.250		6.35	6.20	26.6	32.0331	80.1
3	33 13C3-PFBS	302. > 98.8	1.09e3	9.16e3	0.250	0.095	2.87	2.73	1.49	62.7185	125.4
4	34 13C2-PFHxA	315 > 269.8	2.27e3	9.16e3	0.250	0.636	3.36	3.23	3.10	19.5037	97.5
5	35 13C4-PFHpA	367.2 > 321.8	5.39e3	9.16e3	0.250	0.621	4.00	3.84	7.35	47.3606	94.7
6	36 18O2-PFHxS	403.0 > 102.6	8.50e2	2.85e3	0.250	0.336	4.14	3.98	3.72	44.3162	88.6
7	37 13C2-6:2 FTS	429.1 > 408.9	1.52e3	8.34e3	0.250	0.192	4.46	4.30	2.29	47.5119	95.0
8	38 13C2-PFOA	414.9 > 369.7	8.85e3	8.34e3	0.250	1.001	4.50	4.36	13.3	53.0229	106.0
9	39 13C5-PFNA	468.2 > 422.9	6.12e3	7.64e3	0.250	0.811	4.94	4.78	10.0	49.3667	98.7
10	40 13C8-PFOSA	506.1 > 77.7	7.48e2	8.06e3	0.250	0.196	5.00	4.85	1.16	23.5954	47.2
11	41 13C8-PFOS	507.0 > 79.9	2.05e3	1.96e3	0.250	0.862	5.02	4.86	13.1	60.7873	121.6
12	42 13C2-PFDA	515.1 > 469.9	5.07e3	5.96e3	0.250	0.996	5.31	5.15	10.6	42.7334	85.5
13	43 13C2-8:2 FTS	529.1 > 508.7	8.88e2	9.16e3	0.250	0.103	5.28	5.12	1.21	47.0443	94.1
14	44 d3-N-MeFOSAA	573.3 > 419	2.13e3	8.06e3	0.250	0.340	5.45	5.30	3.30	38.8089	77.6
15	45 d5-N-EtFOSAA	589.3 > 419	2.48e3	8.06e3	0.250	0.377	5.60	5.45	3.84	40.8122	81.6
16	46 13C2-PFUdA	565 > 519.8	6.57e3	8.06e3	0.250	0.944	5.62	5.47	10.2	43.1499	86.3
17	47 13C2-PFDoA	615.0 > 569.7	4.21e3	8.06e3	0.250	0.726	5.91	5.75	6.53	35.9496	71.9
18	49 13C2-PFTeDA	714.8 > 669.6	2.44e3	8.06e3	0.250	0.371	6.35	6.20	3.78	40.7102	81.4
19	55 13C5-PFHxA	318 > 272.9	9.16e3	9.16e3	0.250	1.000	3.36	3.23	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.85e3	2.85e3	0.250	1.000	4.14	3.98	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	8.34e3	8.34e3	0.250	1.000	4.50	4.36	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.64e3	7.64e3	0.250	1.000	4.94	4.78	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	1.96e3	1.96e3	0.250	1.000	5.02	4.86	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.96e3	5.96e3	0.250	1.000	5.31	5.15	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.06e3	8.06e3	0.250	1.000	5.62	5.47	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.32e3	8.50e2	0.250		4.14		19.4	38.7489	
27	63 Total PFOA	413 > 368.7	8.06e3	8.85e3	0.250		4.51		11.4	39.4109	
28	64 Total PFOS	499 > 79.9	1.83e3	2.05e3	0.250		5.02		11.2	40.1390	
29	65 Total N-MeFOSAA	570.1 > 419	2.97e3	2.13e3	0.250		5.45		17.4	42.2375	
30	66 Total N-EtFOSAA	584.2 > 419	2.78e3	2.48e3	0.250		5.61		14.0	43.4371	

Use only

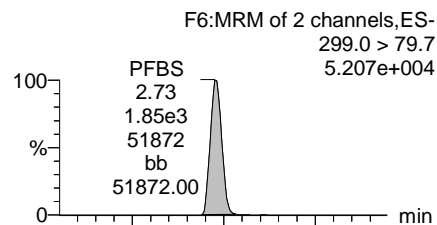
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Printed: Tuesday, January 16, 2018 12:56:52 Pacific Standard Time

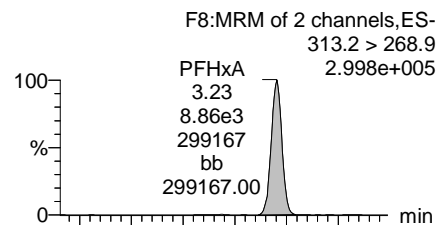
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_45, Date: 16-Jan-2018, Time: 08:38:20, ID: B7L0183-BS1 OPR 0.25, Description: OPR

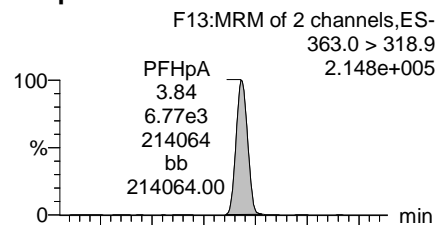
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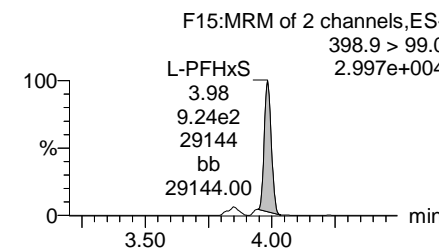
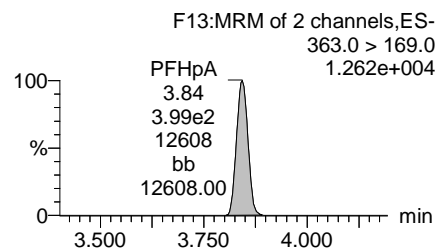
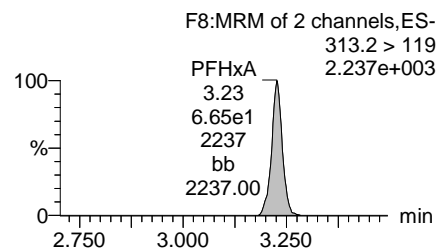
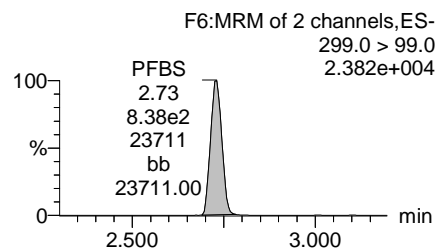
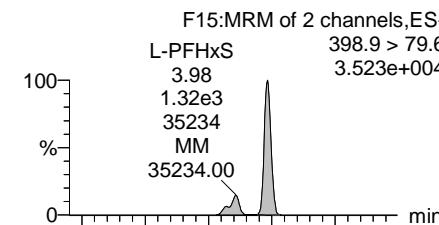
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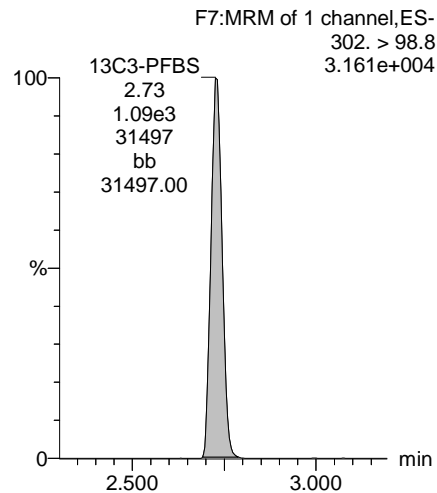
PFHpA



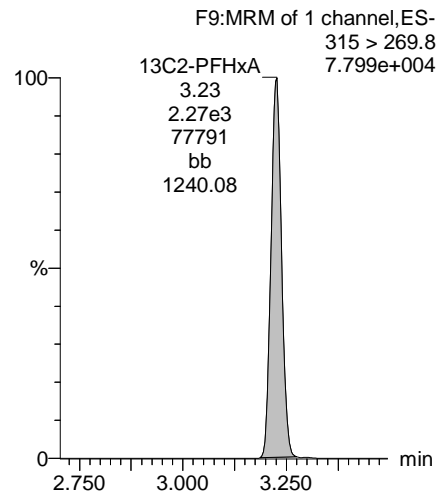
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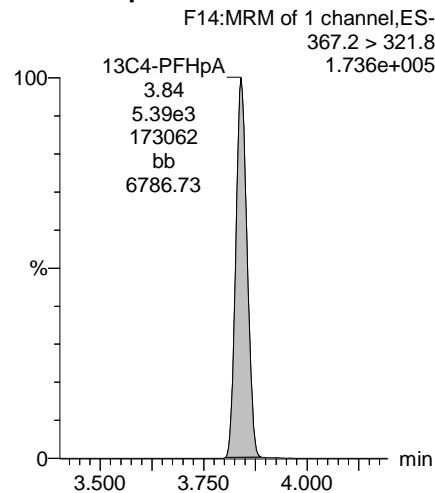
13C3-PFBS



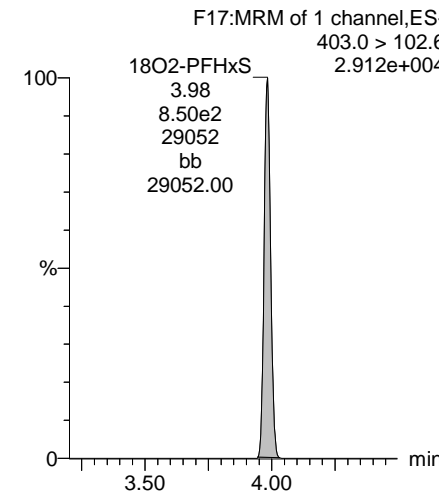
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

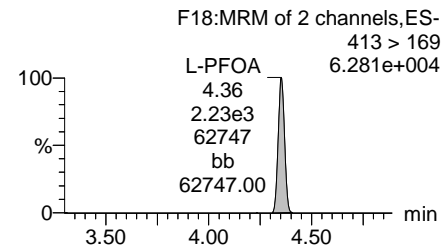
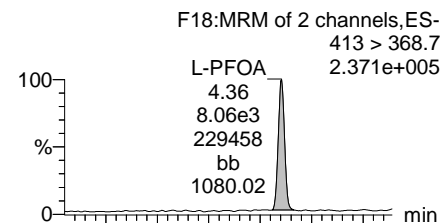


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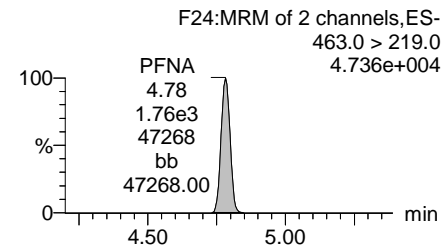
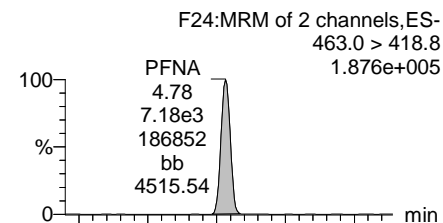
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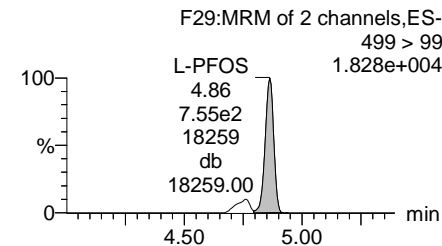
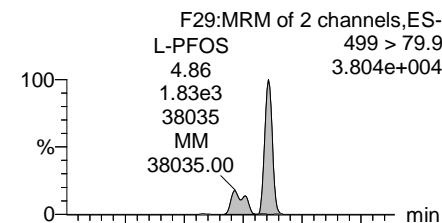
Total PFOA



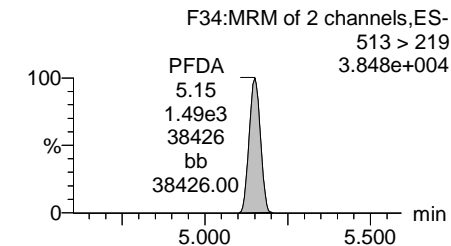
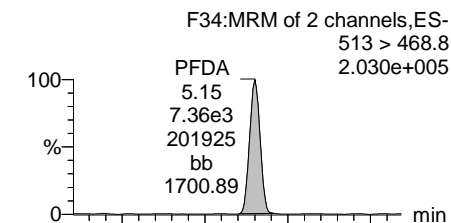
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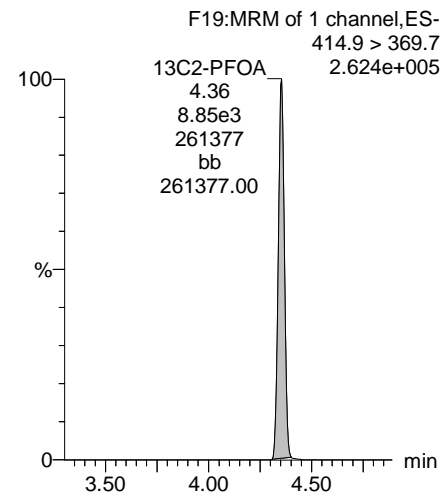
Total PFOS



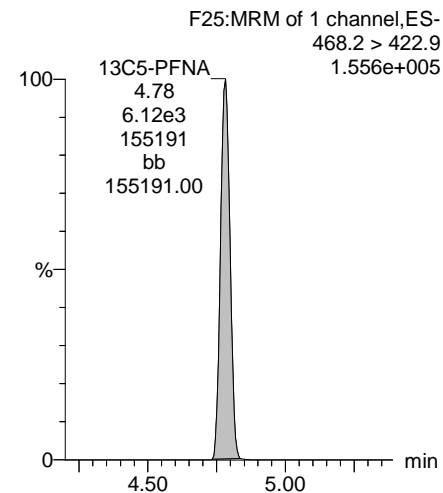
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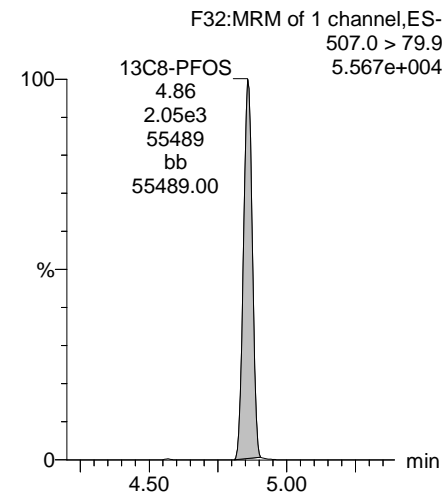
13C2-PFOA



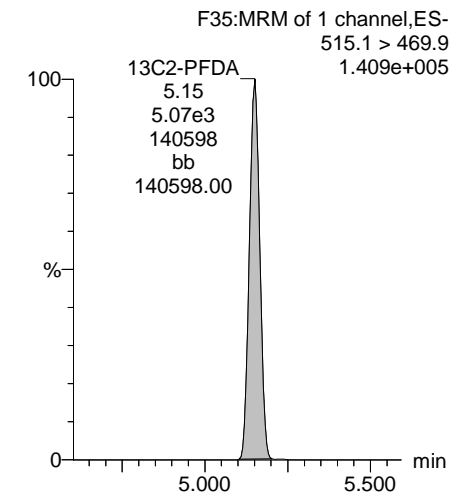
13C5-PFNA



13C8-PFOS



13C2-PFDA



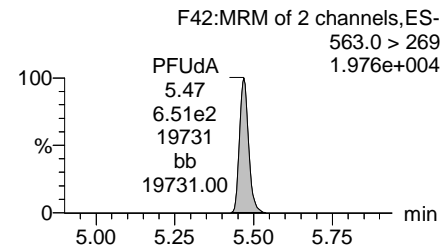
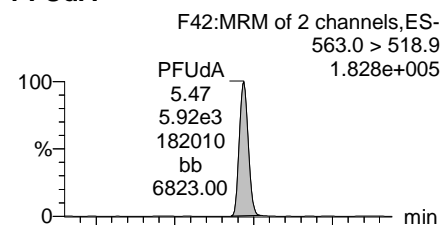
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Last Altered: Tuesday, January 16, 2018 12:55:39 Pacific Standard Time

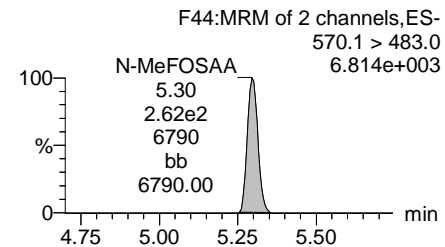
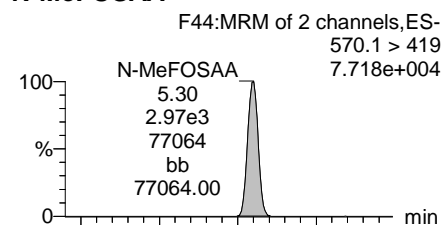
Printed: Tuesday, January 16, 2018 12:56:52 Pacific Standard Time

Name: 180115M2_45, Date: 16-Jan-2018, Time: 08:38:20, ID: B7L0183-BS1 OPR 0.25, Description: OPR

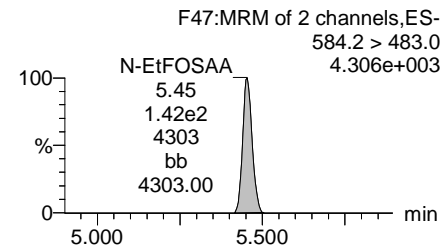
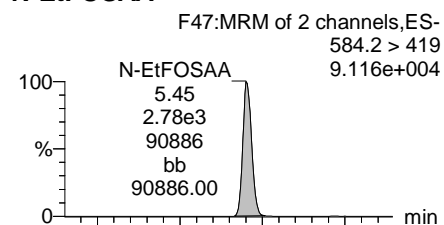
PFUdA



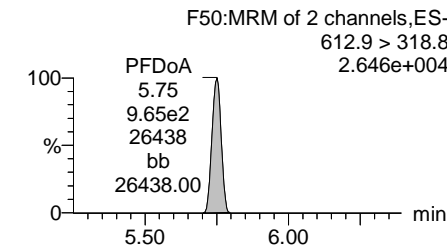
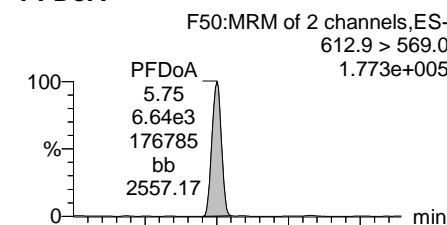
N-MeFOSAA



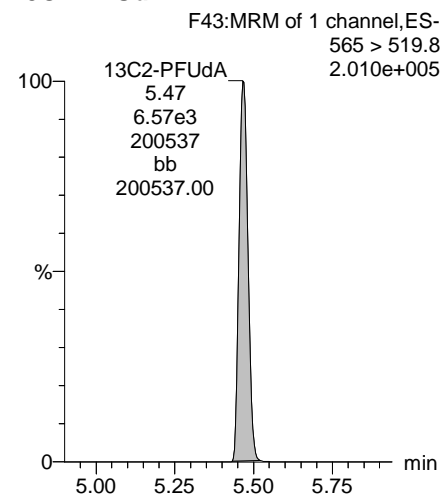
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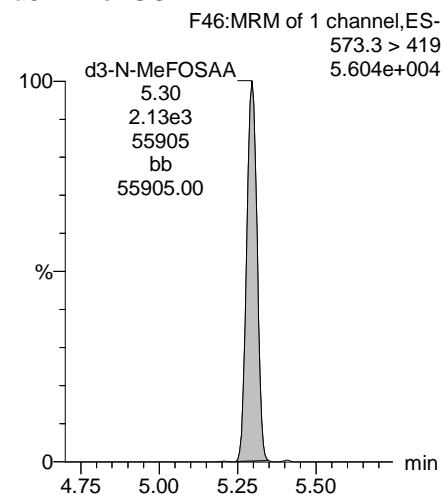
PFDoA



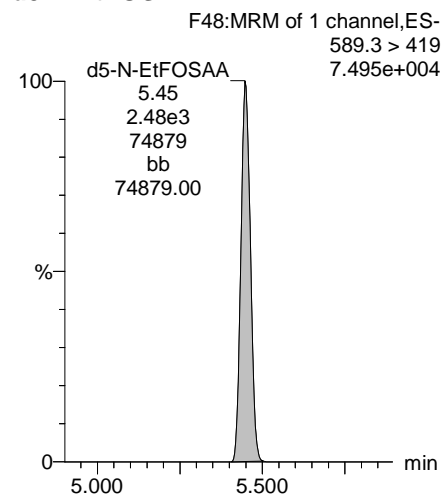
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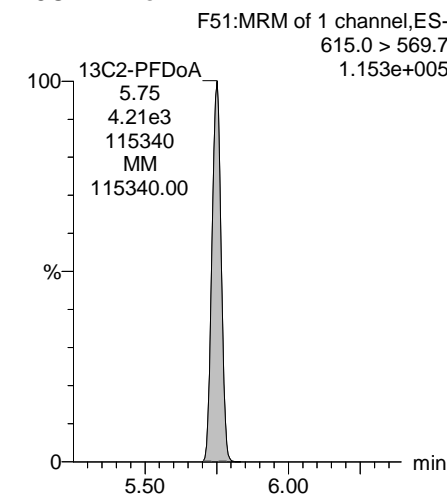
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



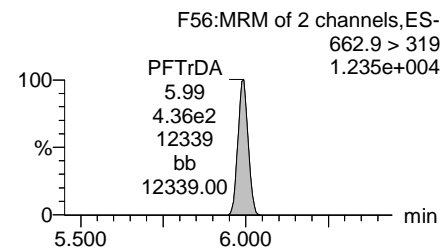
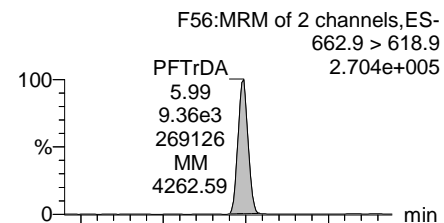
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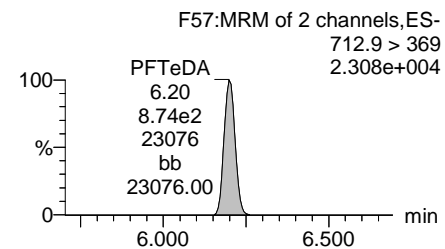
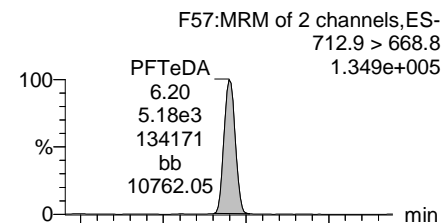
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Name: 180115M2_45, Date: 16-Jan-2018, Time: 08:38:20, ID: B7L0183-BS1 OPR 0.25, Description: OPR

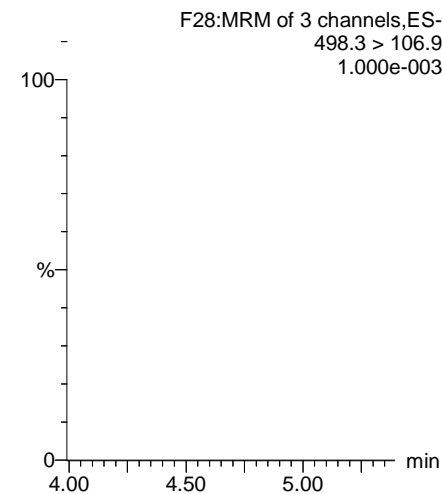
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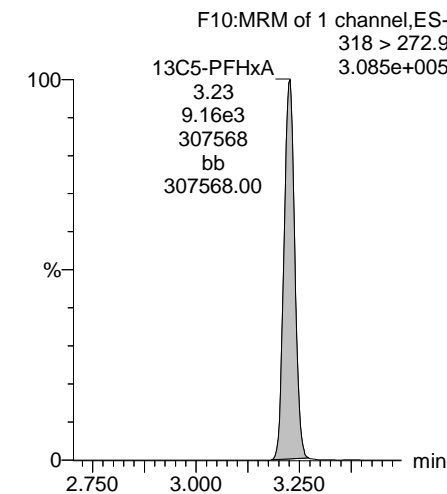
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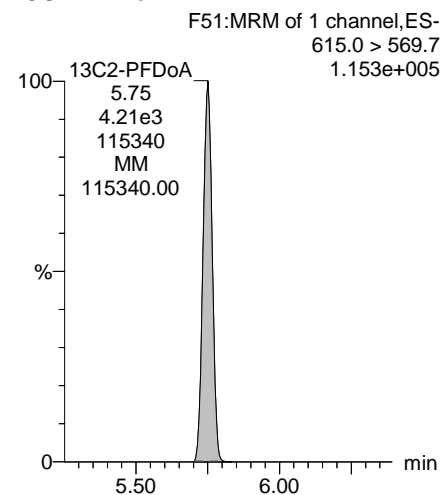
TCDA



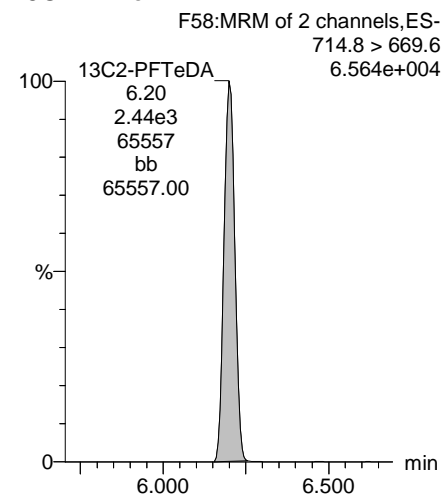
13C5-PFHxA



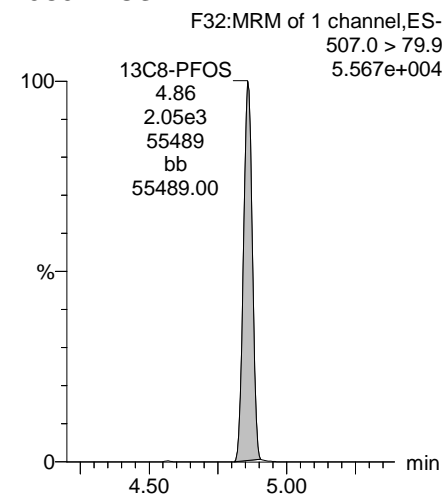
13C2-PFDoA



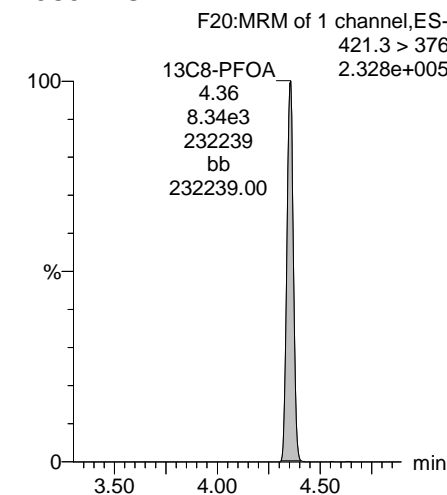
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



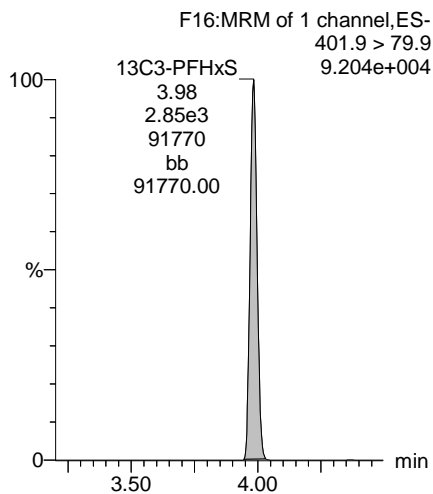
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Last Altered: Tuesday, January 16, 2018 12:55:39 Pacific Standard Time

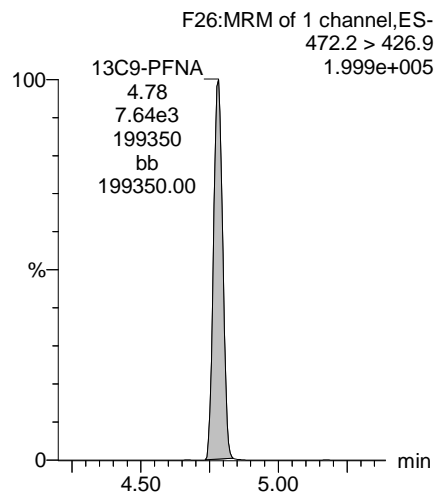
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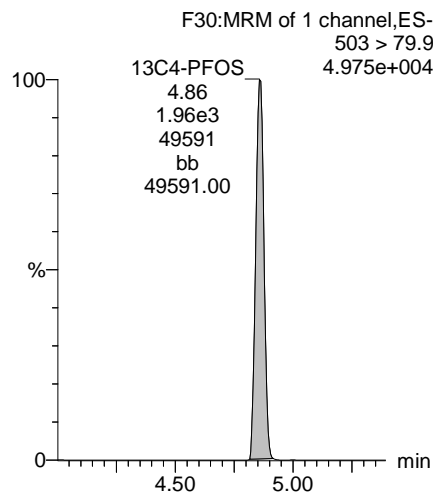
13C3-PFHxS



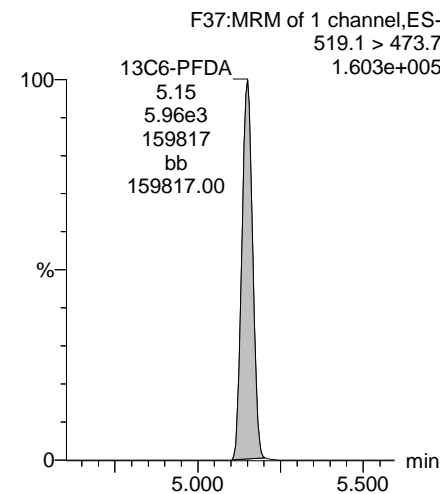
13C9-PFNA



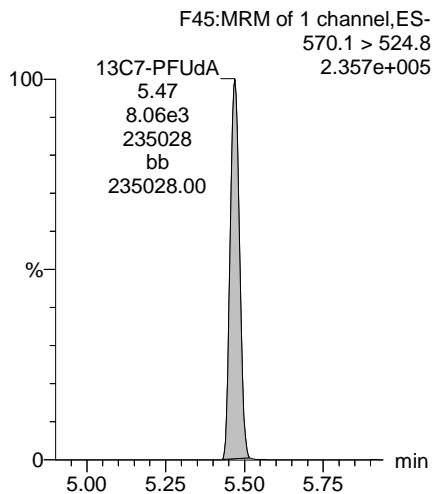
13C4-PFOS



13C6-PFDA



13C7-PFUDa



Dataset: U:\Q4.PRO\results\180115M2\180115M2-94.qld

Last Altered: Thursday, January 18, 2018 10:40:19 Pacific Standard Time

Printed: Thursday, January 18, 2018 10:41:26 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	2.02e3	1.03e3	0.250		2.87	2.68	24.6	51.1647	127.9
2	4 PFHxA	313.2 > 268.9	8.76e3	2.35e3	0.250		3.36	3.17	18.6	42.3756	105.9
3	5 PFHpA	363.0 > 318.9	7.34e3	6.01e3	0.250		4.00	3.79	15.3	40.9530	102.4
4	6 L-PFHxS	398.9 > 79.6	1.52e3	7.95e2	0.250		3.94	3.94	23.9	48.4041	121.0
5	9 L-PFOA	413 > 368.7	6.96e3	6.96e3	0.250		4.34	4.31	12.5	43.4231	108.6
6	12 PFNA	463.0 > 418.8	7.59e3	7.62e3	0.250		4.94	4.73	12.5	36.5921	91.5
7	14 L-PFOS	499 > 79.9	2.00e3	2.38e3	0.250		5.02	4.82	10.5	37.7596	94.4
8	16 PFDA	513 > 468.8	5.81e3	5.52e3	0.250		5.31	5.11	13.1	36.5212	91.3
9	18 N-MeFOSAA	570.1 > 419	4.00e3	2.44e3	0.250		5.45	5.26	20.5	49.9389	124.8
10	19 N-EtFOSAA	584.2 > 419	3.39e3	2.88e3	0.250		5.60	5.42	14.7	45.5623	113.9
11	20 PFUdA	563.0 > 518.9	7.90e3	5.71e3	0.250		5.62	5.43	17.3	55.3274	138.3
12	22 PFDaA	612.9 > 569.0	6.40e3	2.81e3	0.250		5.91	5.71	28.5	77.7378	194.3

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-94.qld

Last Altered: Thursday, January 18, 2018 10:40:19 Pacific Standard Time

Printed: Thursday, January 18, 2018 10:41:47 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9	8.64e3	2.81e3	0.250		6.15	5.96	38.5	71.9979	180.0
2	25 PFTeDA	712.9 > 668.8	3.58e3	2.44e3	0.250		6.35	6.17	18.3	21.8265	54.6
3	33 13C3-PFBS	302. > 98.8	1.03e3	9.98e3	0.250	0.095	2.87	2.68	1.28	54.0645	108.1
4	34 13C2-PFHxA	315 > 269.8	2.35e3	9.98e3	0.250	0.636	3.36	3.17	2.95	18.5332	92.7
5	35 13C4-PFHpA	367.2 > 321.8	6.01e3	9.98e3	0.250	0.621	4.00	3.79	7.53	48.5166	97.0
6	36 18O2-PFHxS	403.0 > 102.6	7.95e2	2.55e3	0.250	0.336	4.14	3.94	3.89	46.3569	92.7
7	37 13C2-6:2 FTS	429.1 > 408.9	1.47e3	7.99e3	0.250	0.192	4.46	4.25	2.30	47.7166	95.4
8	38 13C2-PFOA	414.9 > 369.7	6.96e3	7.99e3	0.250	1.001	4.50	4.31	10.9	43.4654	86.9
9	39 13C5-PFNA	468.2 > 422.9	7.62e3	8.80e3	0.250	0.811	4.94	4.74	10.8	53.3869	106.8
10	40 13C8-PFOSA	506.1 > 77.7	1.07e3	8.71e3	0.250	0.196	5.00	4.80	1.53	31.2201	62.4
11	41 13C8-PFOS	507.0 > 79.9	2.38e3	2.26e3	0.250	0.862	5.02	4.82	13.1	60.9184	121.8
12	42 13C2-PFDA	515.1 > 469.9	5.52e3	5.35e3	0.250	0.996	5.31	5.11	12.9	51.8262	103.7
13	43 13C2-8:2 FTS	529.1 > 508.7	8.95e2	9.98e3	0.250	0.103	5.28	5.08	1.12	43.5222	87.0
14	44 d3-N-MeFOSAA	573.3 > 419	2.44e3	8.71e3	0.250	0.340	5.45	5.26	3.51	41.2442	82.5
15	45 d5-N-EtFOSAA	589.3 > 419	2.88e3	8.71e3	0.250	0.377	5.60	5.41	4.14	43.9254	87.9
16	46 13C2-PFUdA	565 > 519.8	5.71e3	8.71e3	0.250	0.944	5.62	5.43	8.19	34.7390	69.5
17	47 13C2-PFDoA	615.0 > 569.7	2.81e3	8.71e3	0.250	0.726	5.91	5.71	4.03	22.2171	44.4
18	49 13C2-PFTeDA	714.8 > 669.6	2.44e3	8.71e3	0.250	0.371	6.35	6.17	3.51	37.7842	75.6
19	55 13C5-PFHxA	318 > 272.9	9.98e3	9.98e3	0.250	1.000	3.36	3.17	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.55e3	2.55e3	0.250	1.000	4.14	3.94	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	7.99e3	7.99e3	0.250	1.000	4.50	4.31	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.80e3	8.80e3	0.250	1.000	4.94	4.74	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	2.26e3	2.26e3	0.250	1.000	5.02	4.82	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.35e3	5.35e3	0.250	1.000	5.31	5.11	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.71e3	8.71e3	0.250	1.000	5.62	5.43	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.52e3	7.95e2	0.250		4.14		23.9	48.4041	
27	63 Total PFOA	413 > 368.7	6.96e3	6.96e3	0.250		4.51		12.5	43.4231	
28	64 Total PFOS	499 > 79.9	2.00e3	2.38e3	0.250		5.02		10.5	37.7596	
29	65 Total N-MeFOSAA	570.1 > 419	4.00e3	2.44e3	0.250		5.45		20.5	49.9389	
30	66 Total N-EtFOSAA	584.2 > 419	3.39e3	2.88e3	0.250		5.61		14.7	45.5623	

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-94.qld

Last Altered: Thursday, January 18, 2018 10:40:19 Pacific Standard Time

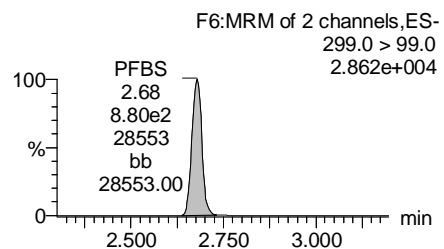
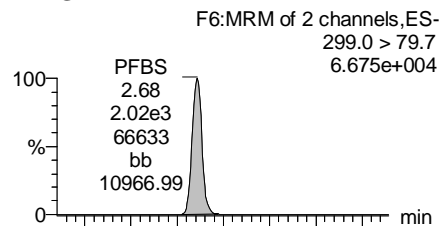
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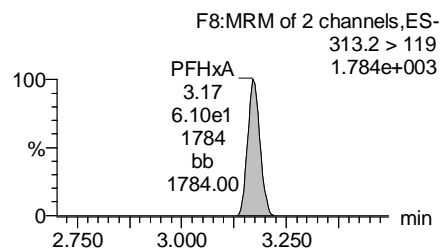
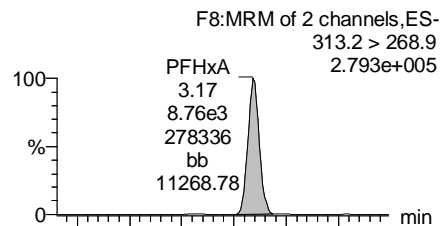
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Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

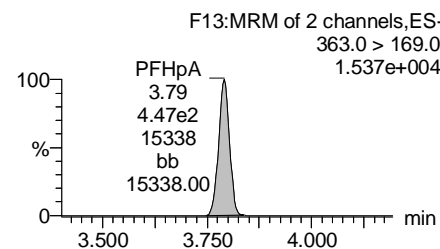
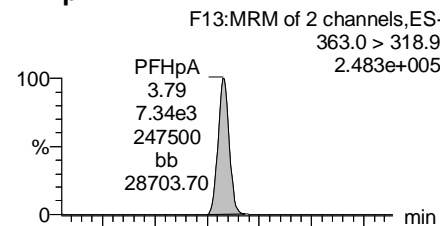
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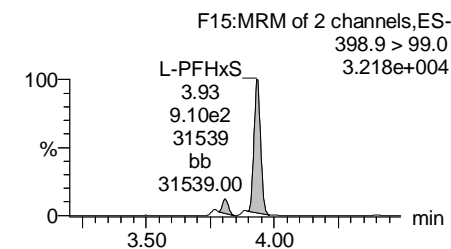
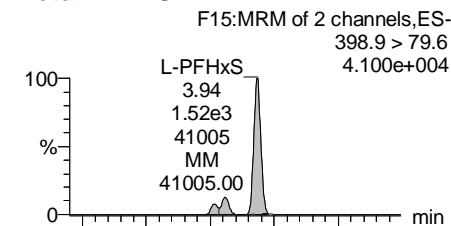
PFHxA



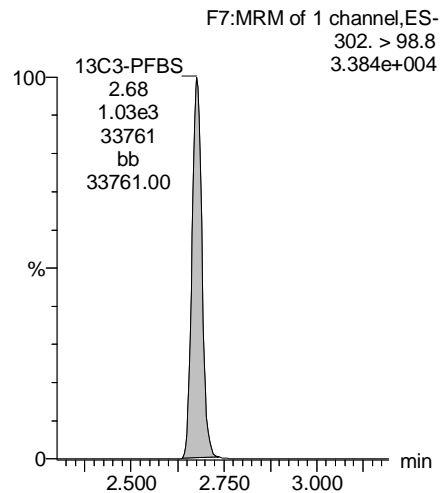
PFHpA



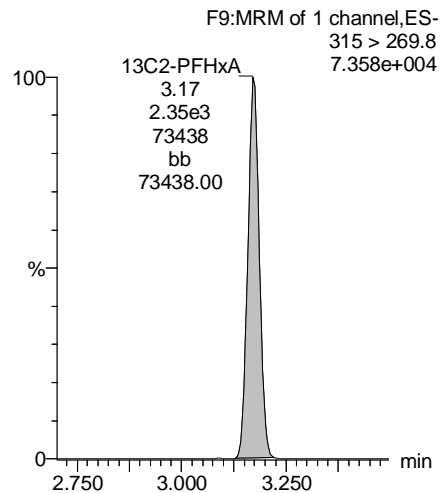
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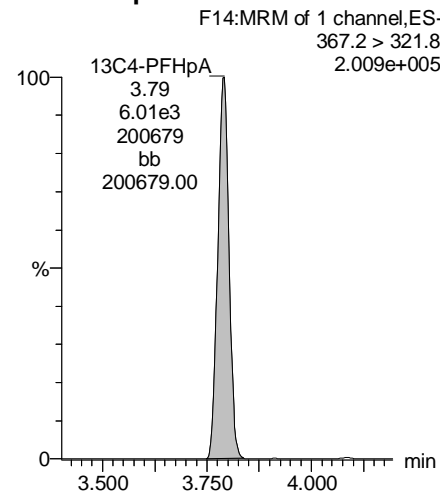
13C3-PFBS



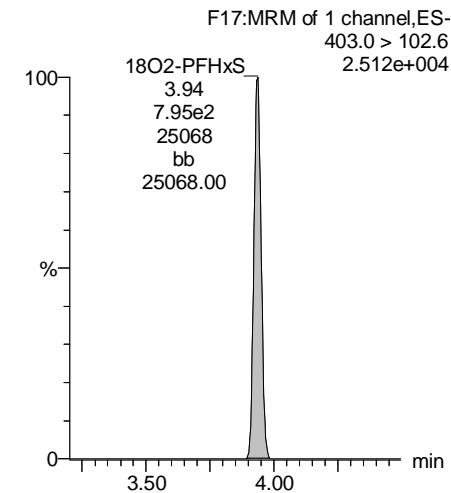
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



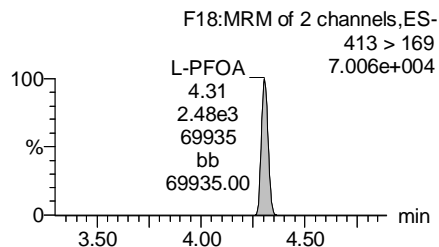
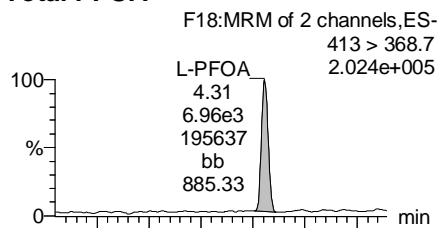
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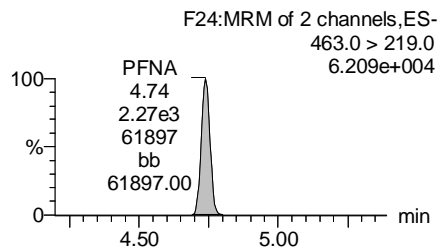
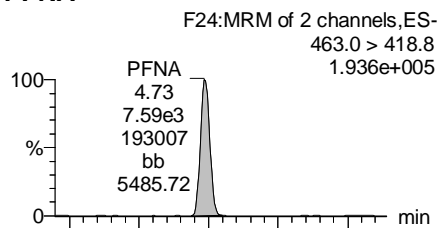
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Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

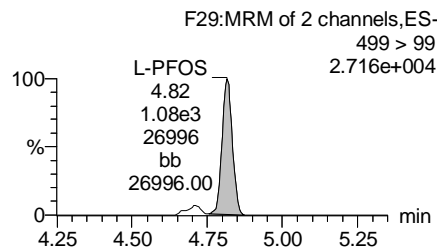
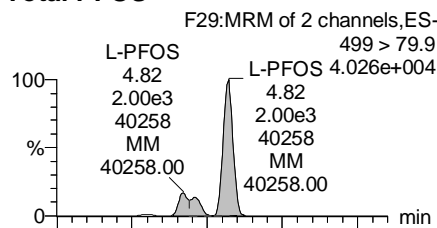
Total PFOA



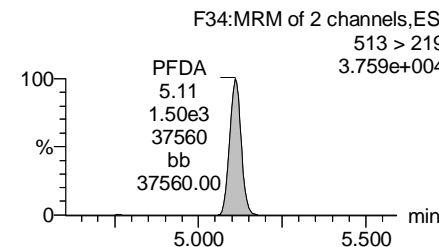
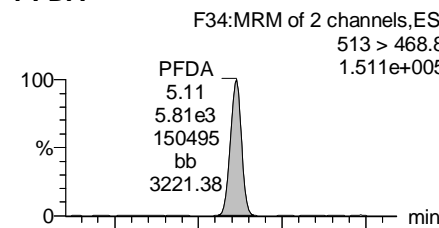
PFNA



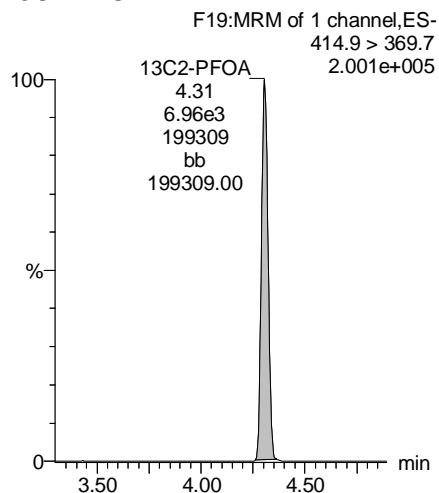
Total PFOS



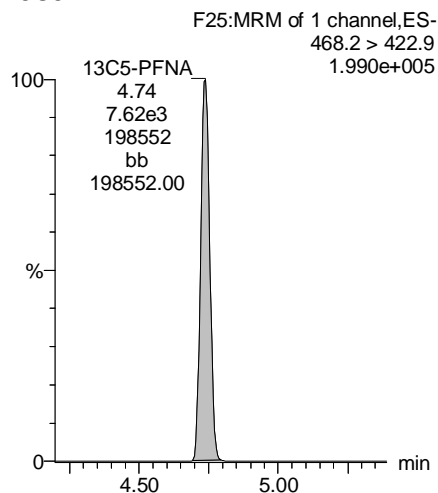
PFDA



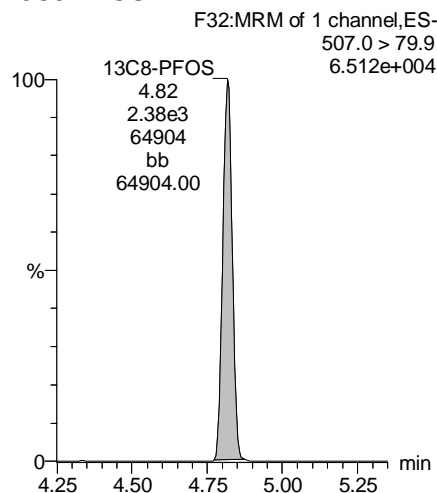
13C2-PFOA



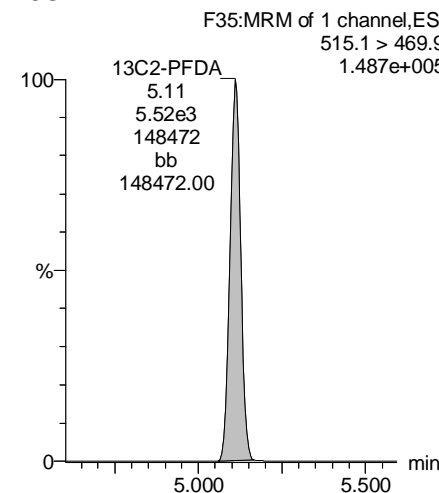
13C5-PFNA



13C8-PFOS



13C2-PFDA



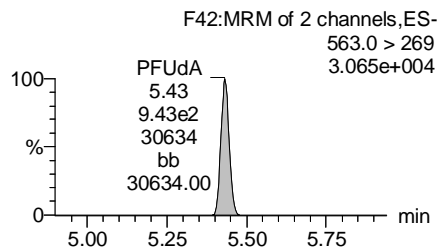
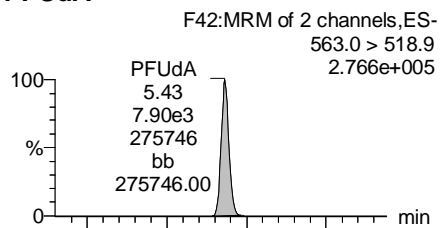
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Last Altered: Thursday, January 18, 2018 10:40:19 Pacific Standard Time

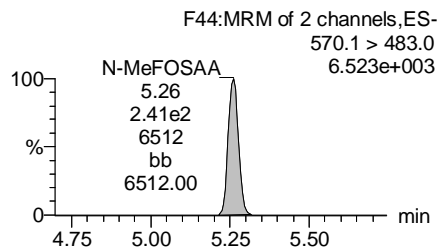
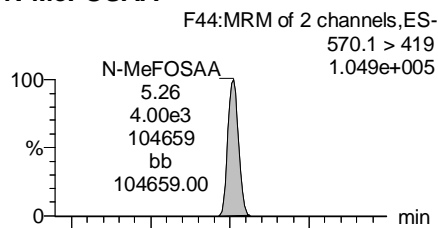
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Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

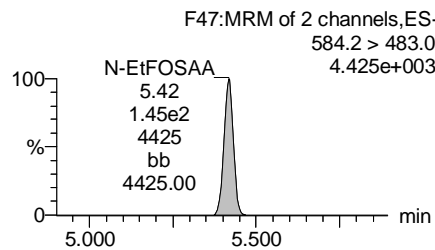
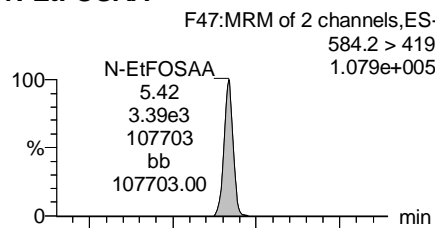
PFUdA



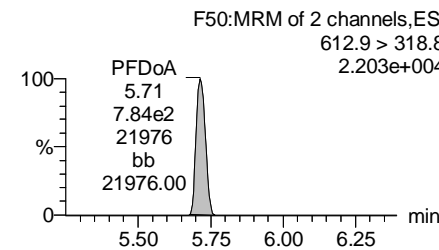
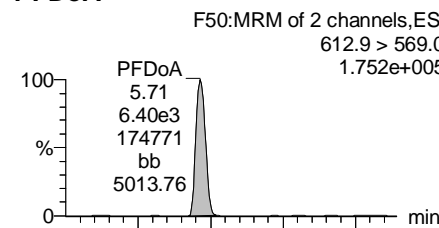
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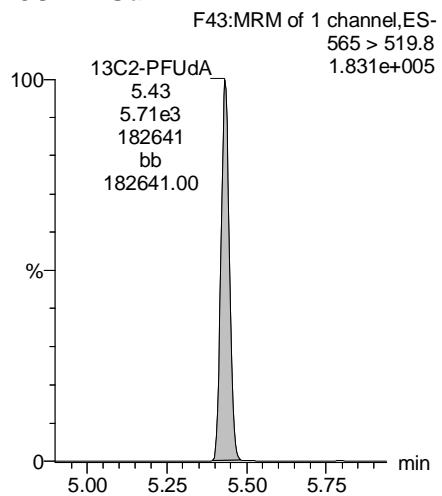
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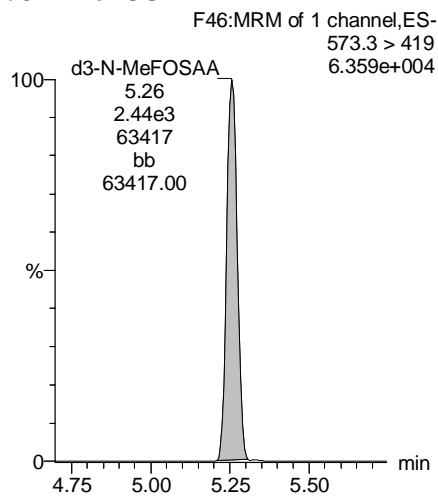
PFDaA



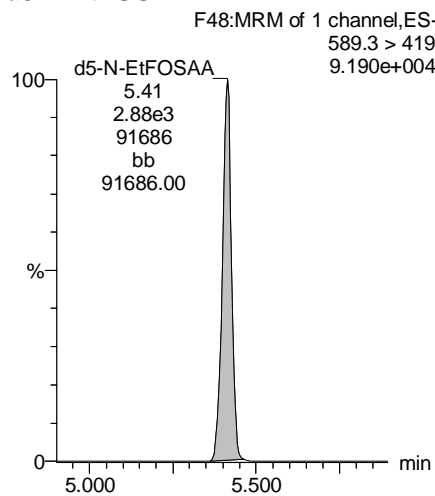
13C2-PFUdA



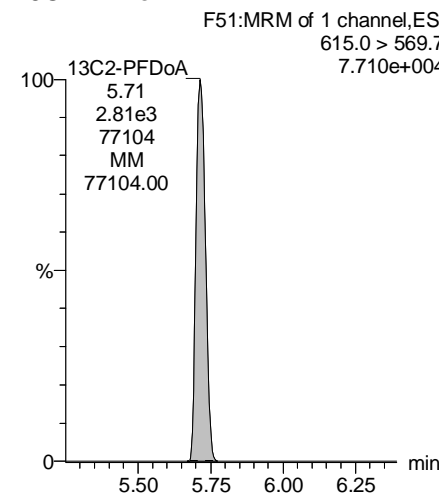
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



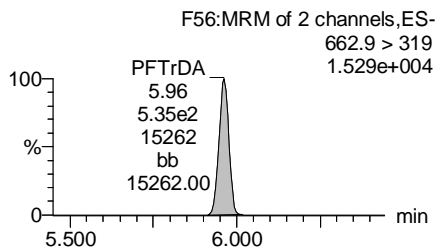
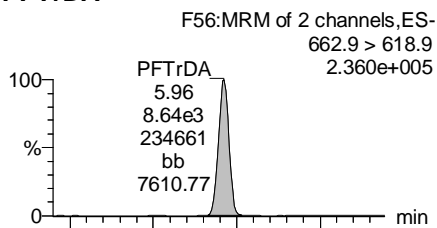
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Last Altered: Thursday, January 18, 2018 10:40:19 Pacific Standard Time

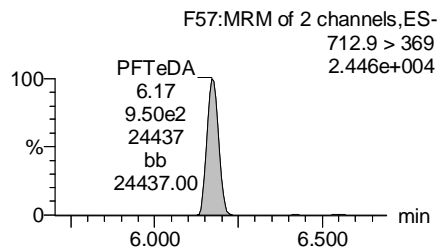
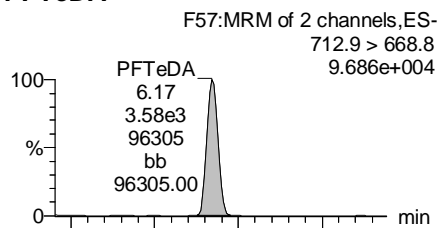
Printed: Thursday, January 18, 2018 10:41:47 Pacific Standard Time

Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

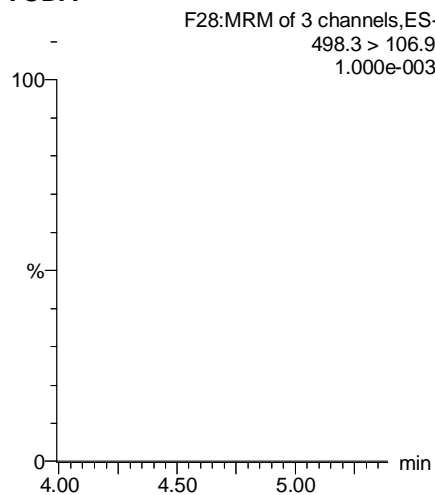
PFTrDA



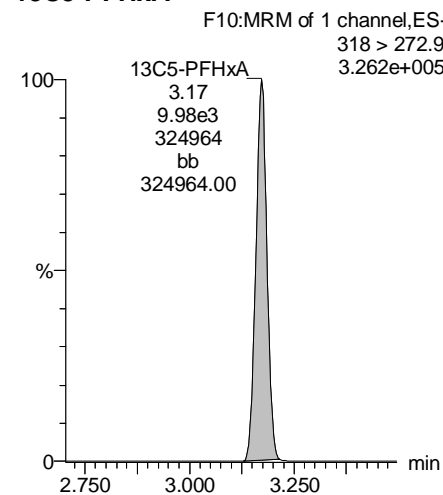
PFTeDA



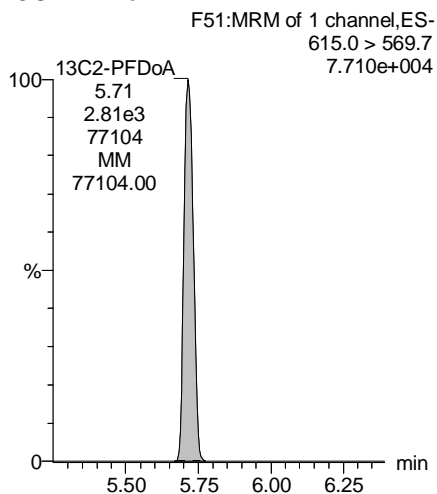
TCDA



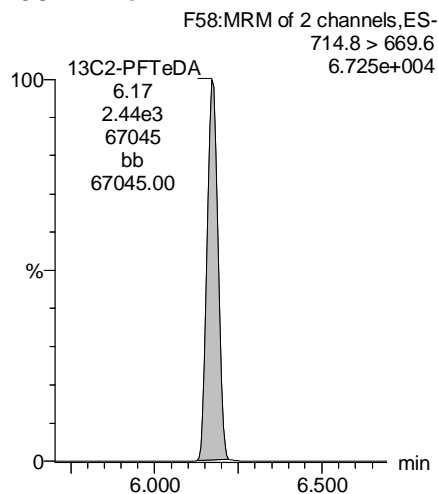
13C5-PFHxA



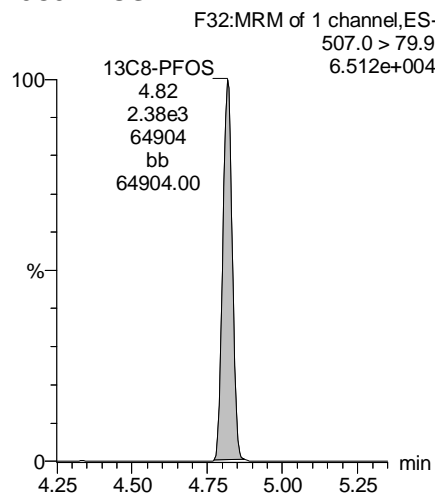
13C2-PFDoA



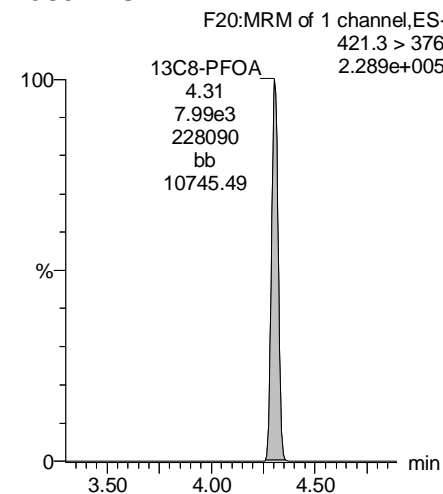
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-94.qld

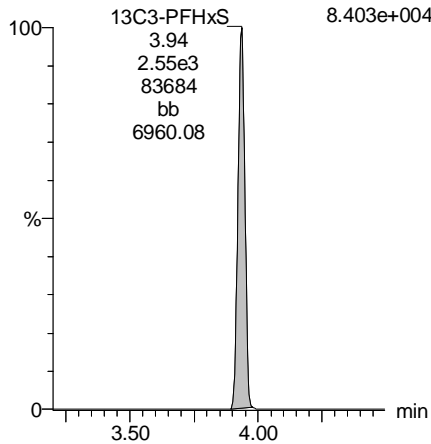
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Printed: Thursday, January 18, 2018 10:41:47 Pacific Standard Time

Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

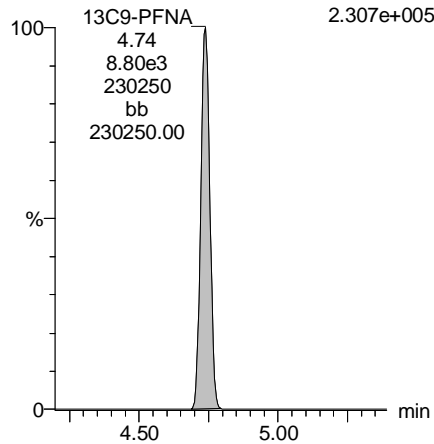
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
8.403e+004



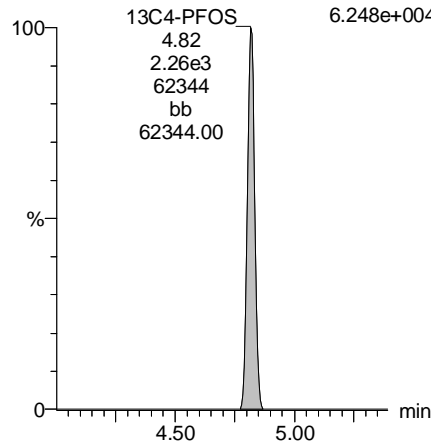
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.307e+005



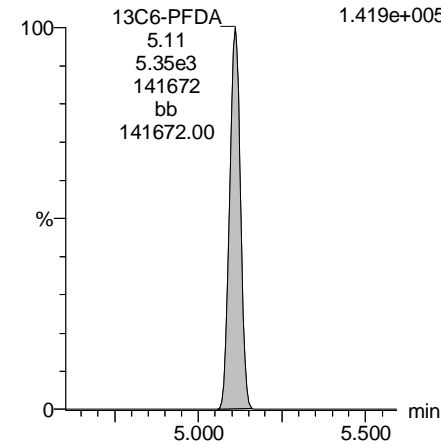
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.248e+004



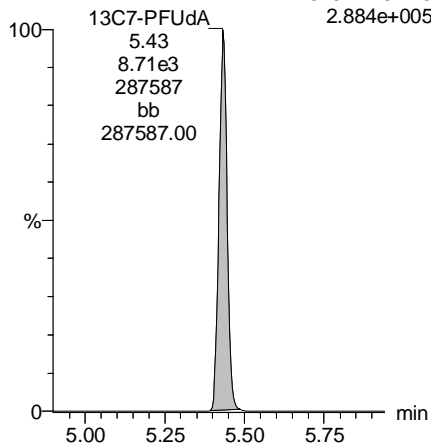
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.419e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.884e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-46.qld

Last Altered: Tuesday, January 16, 2018 13:00:48 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:01:22 Pacific Standard Time

See RI for all except PFUDa and PFTeDA

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	3 PFBS	299.0 > 79.7	1.86e3	9.21e2	0.250		2.87	2.73	25.2	52.4238	131.1	H
2	4 PFHxA	313.2 > 268.9	8.88e3	2.18e3	0.250		3.36	3.22	20.4	46.3717	115.9	
3	5 PFHpA	363.0 > 318.9	6.90e3	4.88e3	0.250		4.00	3.84	17.7	47.4081	118.5	
4	6 L-PFHxS	398.9 > 79.6	1.33e3	7.62e2	0.250		4.14	3.98	21.8	43.9002	109.8	
5	9 L-PFOA	413 > 368.7	6.95e3	7.96e3	0.250		4.50	4.35	10.9	37.7502	94.4	
6	12 PFNA	463.0 > 418.8	6.49e3	6.25e3	0.250		4.94	4.78	13.0	38.1199	95.3	
7	14 L-PFOS	499 > 79.9	2.03e3	1.82e3	0.250		5.02	4.86	13.9	49.9313	124.8	
8	16 PFDA	513 > 468.8	6.48e3	4.85e3	0.250		5.31	5.15	16.7	46.3405	115.9	
9	18 N-MeFOSAA	570.1 > 419	3.57e3	2.26e3	0.250		5.45	5.30	19.8	48.1098	120.3	
10	19 N-EtFOSAA	584.2 > 419	2.89e3	2.89e3	0.250		5.60	5.45	12.5	38.7570	96.9	
11	20 PFUDa	563.0 > 518.9	5.54e3	5.50e3	0.250		5.62	5.47	12.6	39.6171	99.0	Use only
12	22 PFDa	612.9 > 569.0	7.42e3	4.57e3	0.250		5.91	5.75	20.3	55.6782	139.2	H

Dataset: U:\Q4.PRO\results\180115M2\180115M2-46.qld

Last Altered: Tuesday, January 16, 2018 13:00:48 Pacific Standard Time

Printed: Tuesday, January 16, 2018 15:35:54 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9	8.93e3	4.57e3	0.250		6.15	5.99	24.4	45.6545	114.1
2	25 PFTeDA	712.9 > 668.8	6.17e3	2.74e3	0.250		6.35	6.20	28.2	34.0583	85.1
3	33 13C3-PFBS	302. > 98.8	9.21e2	8.87e3	0.250	0.095	2.87	2.72	1.30	54.6644	109.3
4	34 13C2-PFHxA	315 > 269.8	2.18e3	8.87e3	0.250	0.636	3.36	3.22	3.07	19.3227	96.6
5	35 13C4-PFHpA	367.2 > 321.8	4.88e3	8.87e3	0.250	0.621	4.00	3.84	6.87	44.2972	88.6
6	36 18O2-PFHxS	403.0 > 102.6	7.62e2	2.54e3	0.250	0.336	4.14	3.98	3.75	44.6395	89.3
7	37 13C2-6:2 FTS	429.1 > 408.9	1.77e3	8.07e3	0.250	0.192	4.46	4.29	2.74	57.0657	114.1
8	38 13C2-PFOA	414.9 > 369.7	7.96e3	8.07e3	0.250	1.001	4.50	4.35	12.3	49.2734	98.5
9	39 13C5-PFNA	468.2 > 422.9	6.25e3	8.19e3	0.250	0.811	4.94	4.78	9.54	47.0620	94.1
10	40 13C8-PFOA	506.1 > 77.7	8.01e2	7.79e3	0.250	0.196	5.00	4.84	1.29	26.1712	52.3
11	41 13C8-PFOS	507.0 > 79.9	1.82e3	2.14e3	0.250	0.862	5.02	4.86	10.6	49.2260	98.5
12	42 13C2-PFDA	515.1 > 469.9	4.85e3	6.27e3	0.250	0.996	5.31	5.14	9.66	38.8027	77.6
13	43 13C2-8:2 FTS	529.1 > 508.7	8.54e2	8.87e3	0.250	0.103	5.28	5.12	1.20	46.7764	93.6
14	44 d3-N-MeFOSAA	573.3 > 419	2.26e3	7.79e3	0.250	0.340	5.45	5.29	3.63	42.6759	85.4
15	45 d5-N-EtFOSAA	589.3 > 419	2.89e3	7.79e3	0.250	0.377	5.60	5.44	4.63	49.1778	98.4
16	46 13C2-PFUdA	565 > 519.8	5.50e3	7.79e3	0.250	0.944	5.62	5.47	8.82	37.4031	74.8
17	47 13C2-PFDoA	615.0 > 569.7	4.57e3	7.79e3	0.250	0.726	5.91	5.75	7.34	40.4298	80.9
18	49 13C2-PFTeDA	714.8 > 669.6	2.74e3	7.79e3	0.250	0.371	6.35	6.20	4.40	47.3898	94.8
19	55 13C5-PFHxA	318 > 272.9	8.87e3	8.87e3	0.250	1.000	3.36	3.22	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.54e3	2.54e3	0.250	1.000	4.14	3.98	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	8.07e3	8.07e3	0.250	1.000	4.50	4.35	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.19e3	8.19e3	0.250	1.000	4.94	4.78	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	2.14e3	2.14e3	0.250	1.000	5.02	4.86	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.27e3	6.27e3	0.250	1.000	5.31	5.15	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.79e3	7.79e3	0.250	1.000	5.62	5.47	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.33e3	7.62e2	0.250		4.14		21.8	43.9002	
27	63 Total PFOA	413 > 368.7	6.95e3	7.96e3	0.250		4.51		10.9	37.7502	
28	64 Total PFOS	499 > 79.9	2.03e3	1.82e3	0.250		5.02		13.9	49.9313	
29	65 Total N-MeFOSAA	570.1 > 419	3.57e3	2.26e3	0.250		5.45		19.8	48.1098	
30	66 Total N-EtFOSAA	584.2 > 419	2.89e3	2.89e3	0.250		5.61		12.5	38.7570	

Use only.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-46.qld

Last Altered: Tuesday, January 16, 2018 13:00:48 Pacific Standard Time

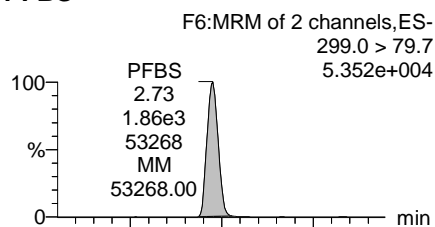
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Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

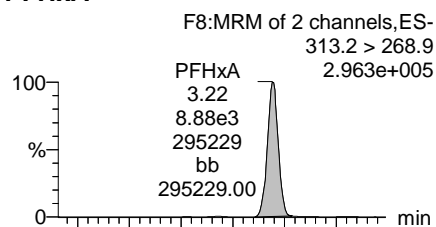
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

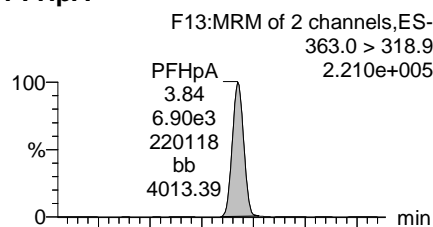
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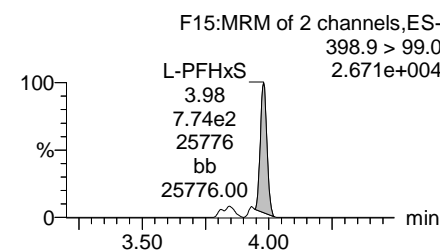
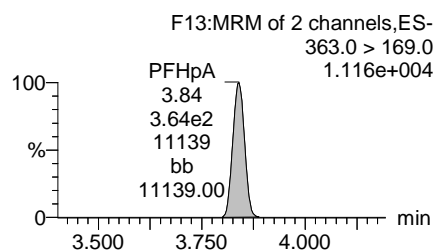
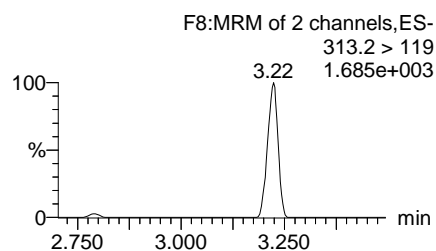
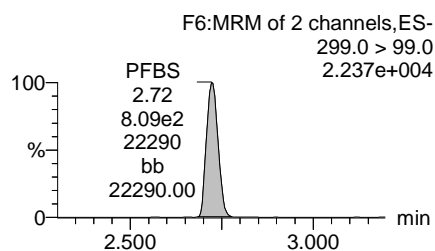
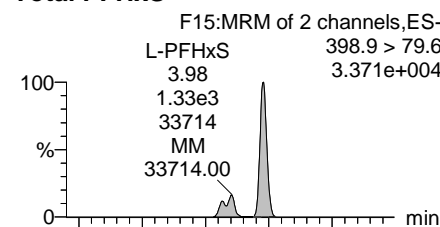
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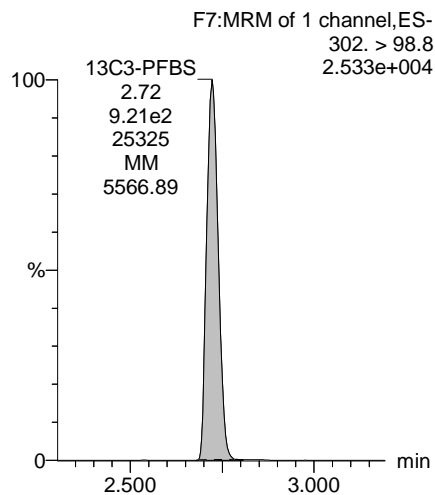
PFHpA



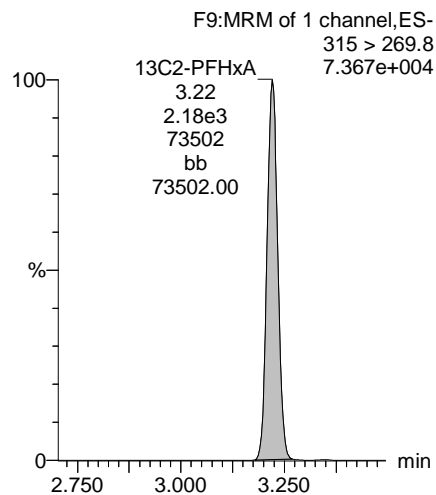
Total PFHxS



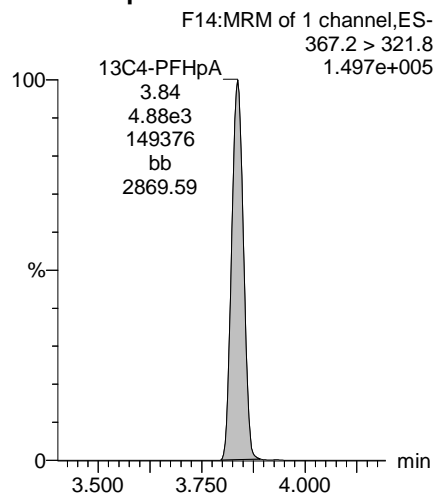
13C3-PFBS



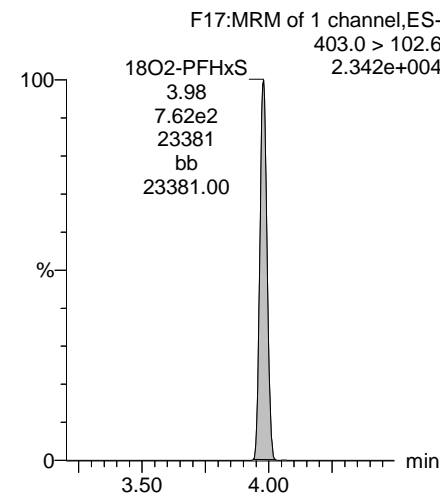
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



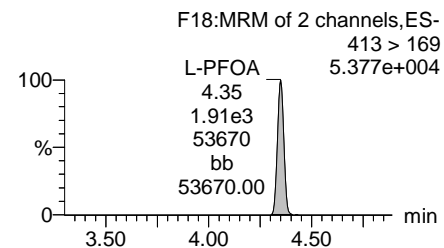
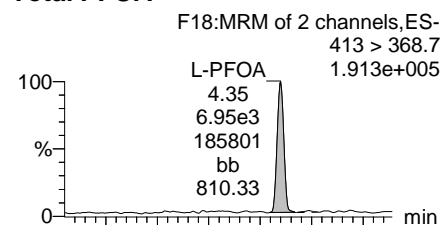
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Last Altered: Tuesday, January 16, 2018 13:00:48 Pacific Standard Time

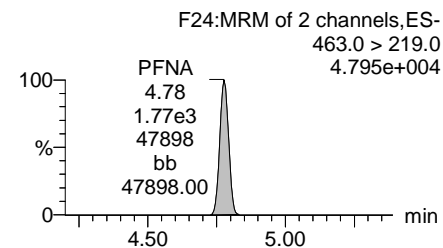
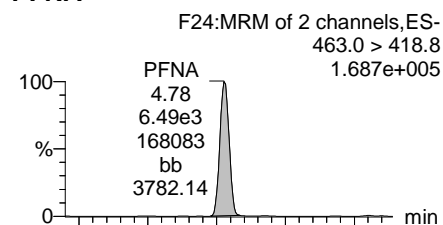
Printed: Tuesday, January 16, 2018 13:01:33 Pacific Standard Time

Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

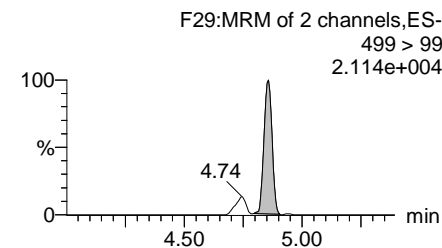
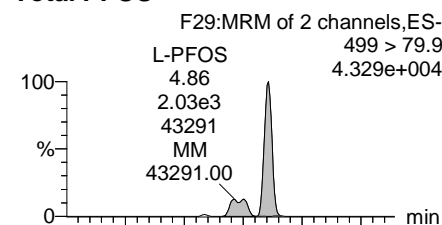
Total PFOA



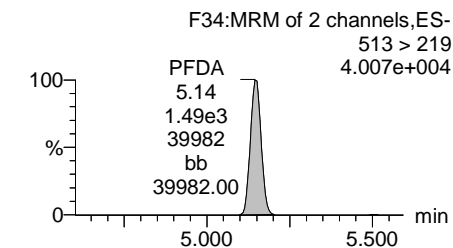
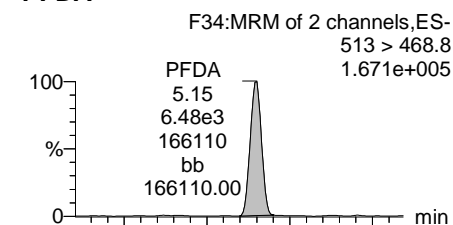
PFNA



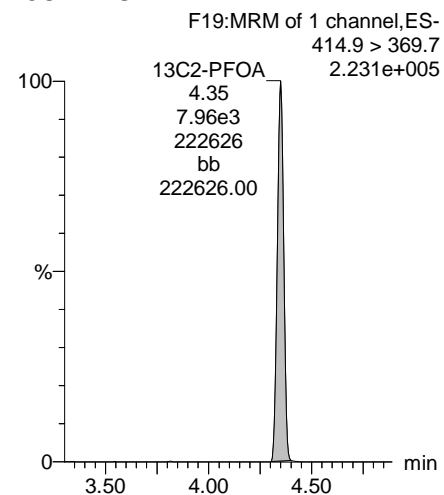
Total PFOS



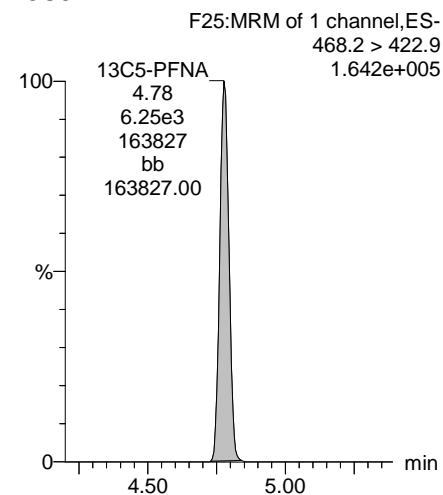
PFDA



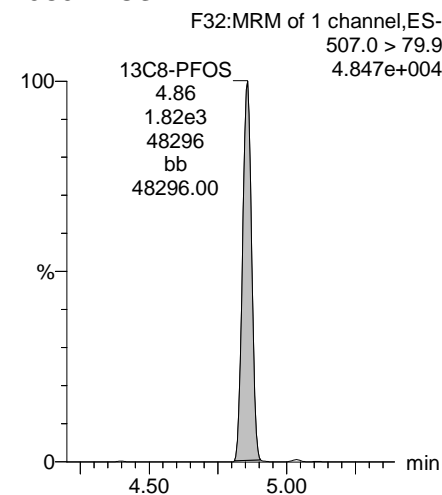
13C2-PFOA



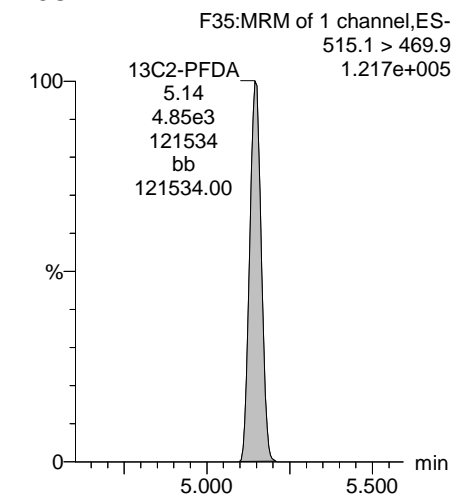
13C5-PFNA



13C8-PFOS



13C2-PFDA



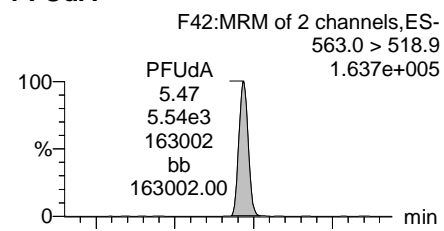
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Last Altered: Tuesday, January 16, 2018 13:00:48 Pacific Standard Time

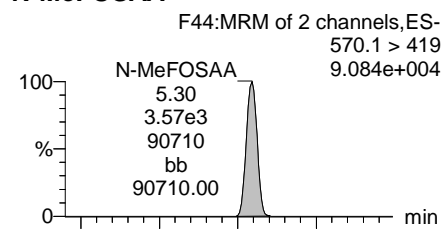
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Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

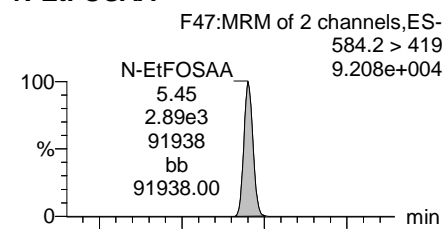
PFUdA



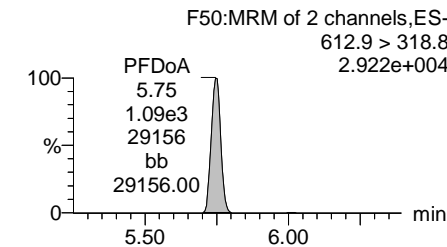
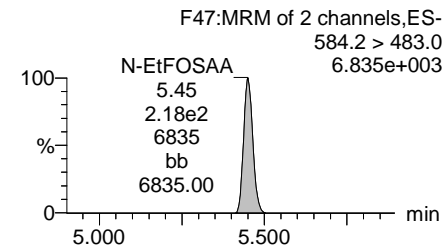
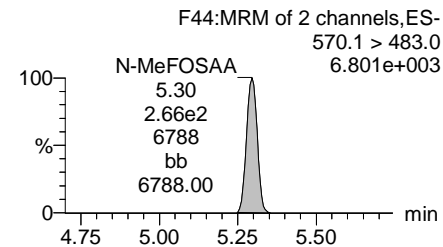
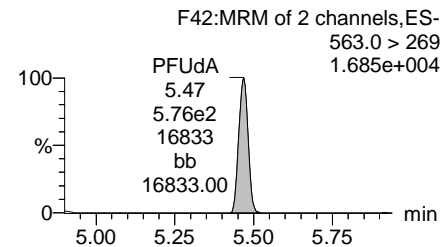
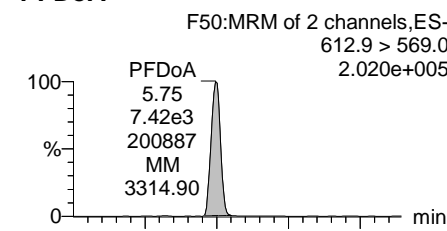
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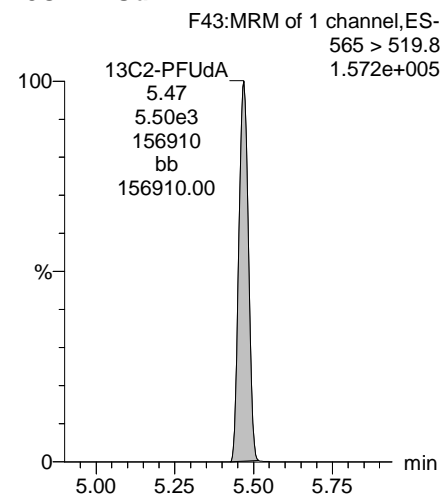
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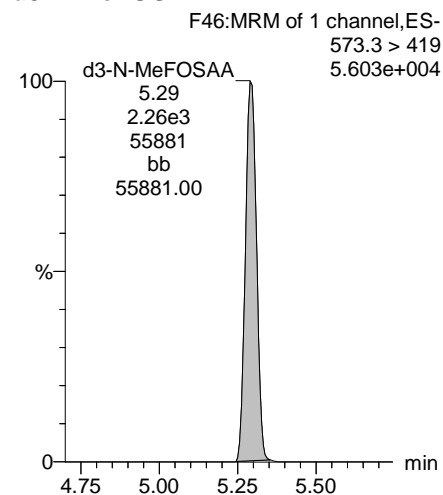
PFDaA



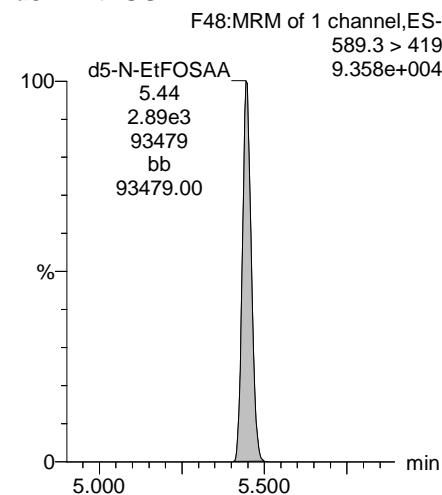
13C2-PFUdA



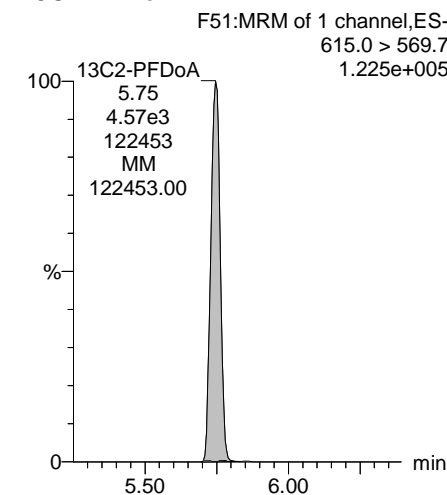
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



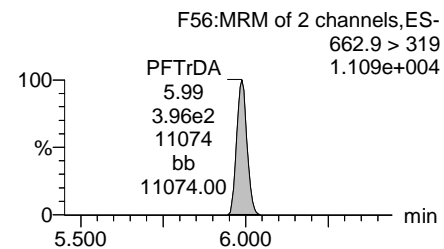
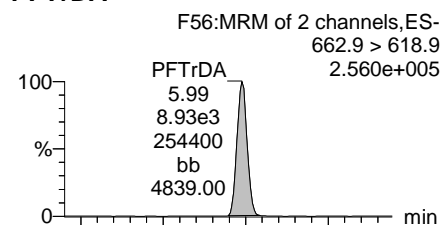
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Last Altered: Tuesday, January 16, 2018 13:00:48 Pacific Standard Time

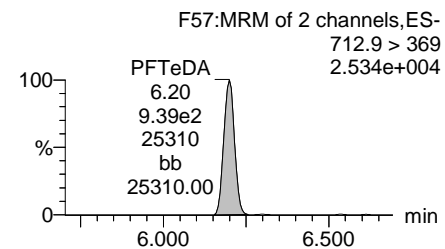
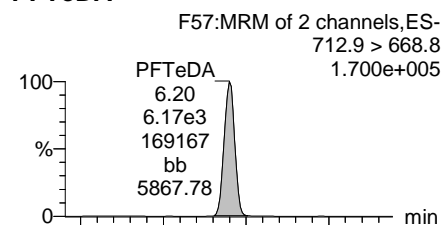
Printed: Tuesday, January 16, 2018 13:01:33 Pacific Standard Time

Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

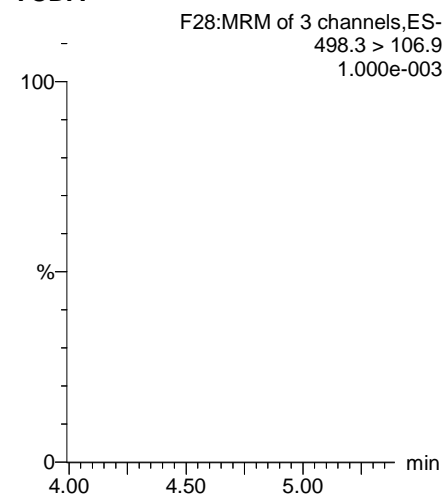
PFTrDA



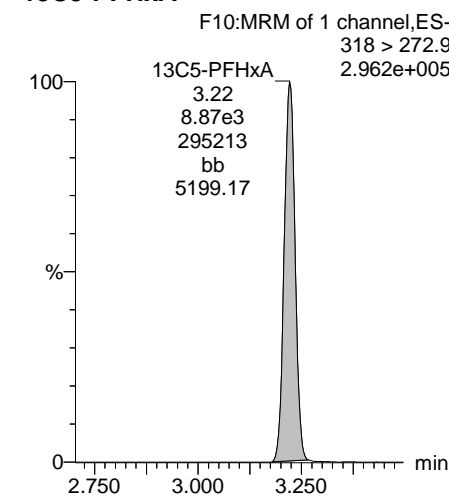
PFTeDA



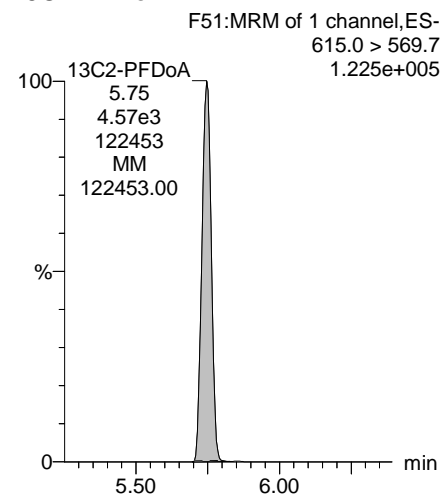
TCDA



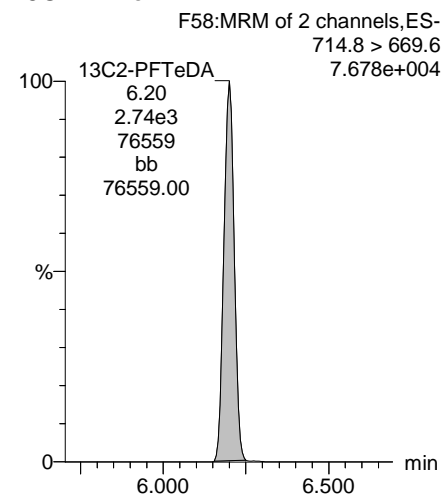
13C5-PFHxA



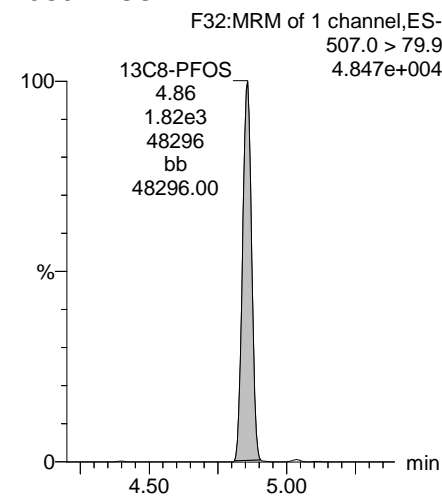
13C2-PFDoA



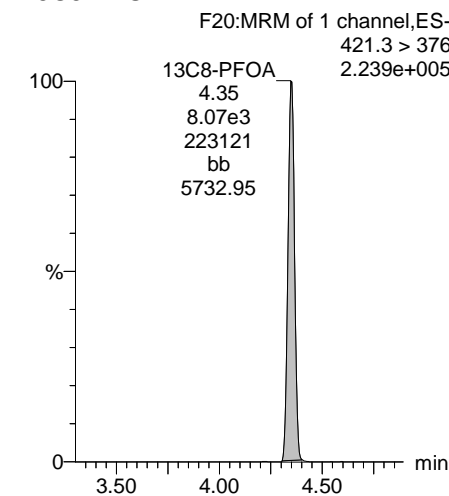
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-46.qld

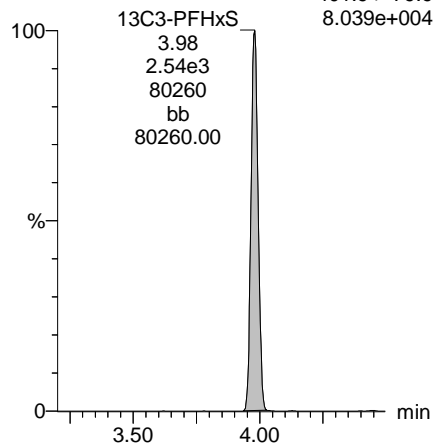
Last Altered: Tuesday, January 16, 2018 13:00:48 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:01:33 Pacific Standard Time

Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

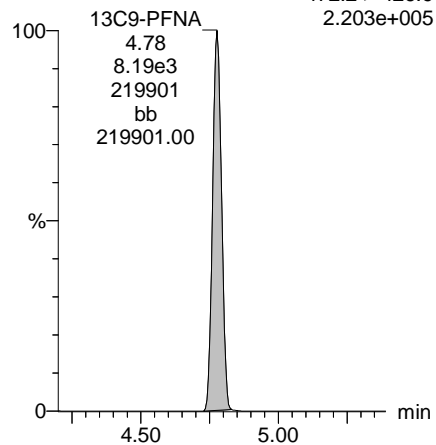
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
8.039e+004



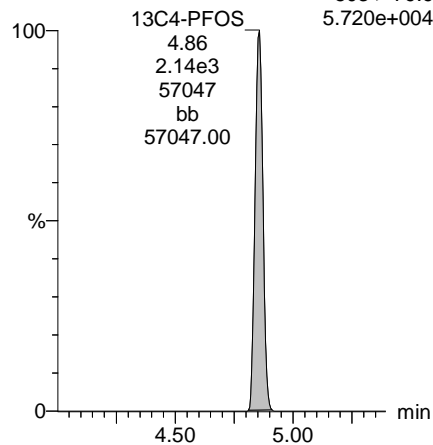
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.203e+005



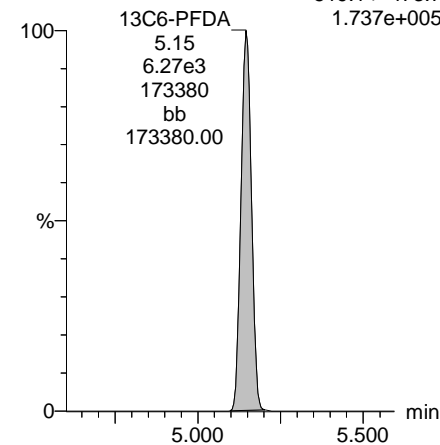
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
5.720e+004



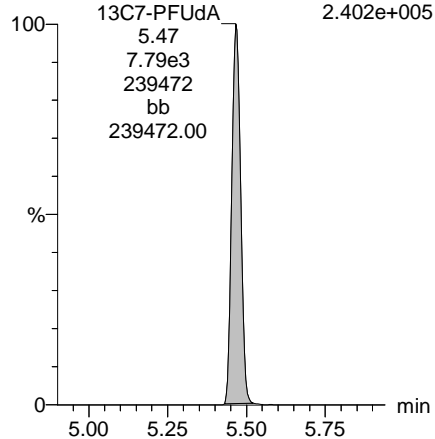
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.737e+005



13C7-PFUDa

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.402e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-95.qld

Last Altered: Thursday, January 18, 2018 10:52:06 Pacific Standard Time

Printed: Thursday, January 18, 2018 10:52:42 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_95, Date: 16-Jan-2018, Time: 18:38:14, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	1.96e3	1.07e3	0.250		2.87	2.68	22.9	47.8087	119.5
2	4 PFHxA	313.2 > 268.9	9.44e3	2.57e3	0.250		3.36	3.17	18.4	41.8140	104.5
3	5 PFHpA	363.0 > 318.9	7.34e3	5.81e3	0.250		4.00	3.79	15.8	42.3654	105.9
4	6 L-PFHxS	398.9 > 79.6	1.36e3	7.47e2	0.250		3.94	3.93	22.8	46.1529	115.4
5	9 L-PFOA	413 > 368.7	7.66e3	7.78e3	0.250		4.34	4.31	12.3	42.7166	106.8
6	12 PFNA	463.0 > 418.8	7.57e3	6.76e3	0.250		4.94	4.74	14.0	41.0563	102.6
7	14 L-PFOS	499 > 79.9	2.41e3	2.08e3	0.250		5.02	4.82	14.5	51.8395	129.6
8	16 PFDA	513 > 468.8	6.73e3	5.89e3	0.250		5.31	5.11	14.3	39.6723	99.2
9	18 N-MeFOSAA	570.1 > 419	4.19e3	3.01e3	0.250		5.45	5.26	17.4	42.1894	105.5
10	19 N-EtFOSAA	584.2 > 419	3.38e3	3.32e3	0.250		5.60	5.42	12.8	39.4986	98.7
11	20 PFUdA	563.0 > 518.9	7.59e3	6.58e3	0.250		5.62	5.43	14.4	45.6377	114.1
12	22 PFDaA	612.9 > 569.0	7.44e3	2.93e3	0.250		5.91	5.71	31.8	86.4445	216.1

See orig. inj.

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-95.qld

Last Altered: Thursday, January 18, 2018 10:52:06 Pacific Standard Time

Printed: Thursday, January 18, 2018 10:52:55 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_95, Date: 16-Jan-2018, Time: 18:38:14, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9	8.04e3	2.93e3	0.250		6.15	5.96	34.3	64.2414	160.6
2	25 PFTeDA	712.9 > 668.8	4.08e3	2.39e3	0.250		6.35	6.17	21.4	25.5970	64.0
3	33 13C3-PFBS	302. > 98.8	1.07e3	8.57e3	0.250	0.095	2.87	2.68	1.55	65.4333	130.9
4	34 13C2-PFHxA	315 > 269.8	2.57e3	8.57e3	0.250	0.636	3.36	3.17	3.75	23.5859	117.9
5	35 13C4-PFHpA	367.2 > 321.8	5.81e3	8.57e3	0.250	0.621	4.00	3.79	8.48	54.6447	109.3
6	36 18O2-PFHxS	403.0 > 102.6	7.47e2	2.30e3	0.250	0.336	4.14	3.93	4.05	48.2608	96.5
7	37 13C2-6:2 FTS	429.1 > 408.9	1.87e3	8.48e3	0.250	0.192	4.46	4.25	2.76	57.4169	114.8
8	38 13C2-PFOA	414.9 > 369.7	7.78e3	8.48e3	0.250	1.001	4.50	4.31	11.5	45.7929	91.6
9	39 13C5-PFNA	468.2 > 422.9	6.76e3	9.65e3	0.250	0.811	4.94	4.74	8.76	43.2014	86.4
10	40 13C8-PFOSA	506.1 > 77.7	1.17e3	8.11e3	0.250	0.196	5.00	4.80	1.81	36.8327	73.7
11	41 13C8-PFOS	507.0 > 79.9	2.08e3	2.45e3	0.250	0.862	5.02	4.82	10.6	49.3459	98.7
12	42 13C2-PFDA	515.1 > 469.9	5.89e3	5.43e3	0.250	0.996	5.31	5.11	13.6	54.4342	108.9
13	43 13C2-8:2 FTS	529.1 > 508.7	1.08e3	8.57e3	0.250	0.103	5.28	5.08	1.57	61.1595	122.3
14	44 d3-N-MeFOSAA	573.3 > 419	3.01e3	8.11e3	0.250	0.340	5.45	5.26	4.63	54.5297	109.1
15	45 d5-N-EtFOSAA	589.3 > 419	3.32e3	8.11e3	0.250	0.377	5.60	5.41	5.11	54.2578	108.5
16	46 13C2-PFUdA	565 > 519.8	6.58e3	8.11e3	0.250	0.944	5.62	5.43	10.1	42.9580	85.9
17	47 13C2-PFDoA	615.0 > 569.7	2.93e3	8.11e3	0.250	0.726	5.91	5.71	4.51	24.8444	49.7
18	49 13C2-PFTeDA	714.8 > 669.6	2.39e3	8.11e3	0.250	0.371	6.35	6.17	3.68	39.6251	79.3
19	55 13C5-PFHxA	318 > 272.9	8.57e3	8.57e3	0.250	1.000	3.36	3.17	12.5	50.0000	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.30e3	2.30e3	0.250	1.000	4.14	3.93	12.5	50.0000	100.0
21	57 13C8-PFOA	421.3 > 376	8.48e3	8.48e3	0.250	1.000	4.50	4.31	12.5	50.0000	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.65e3	9.65e3	0.250	1.000	4.94	4.74	12.5	50.0000	100.0
23	59 13C4-PFOS	503 > 79.9	2.45e3	2.45e3	0.250	1.000	5.02	4.82	12.5	50.0000	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.43e3	5.43e3	0.250	1.000	5.31	5.11	12.5	50.0000	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.11e3	8.11e3	0.250	1.000	5.62	5.43	12.5	50.0000	100.0
26	62 Total PFHxS	398.9 > 79.6	1.36e3	7.47e2	0.250		4.14		22.8	46.1529	
27	63 Total PFOA	413 > 368.7	7.66e3	7.78e3	0.250		4.51		12.3	42.7166	
28	64 Total PFOS	499 > 79.9	2.41e3	2.08e3	0.250		5.02		14.5	51.8395	
29	65 Total N-MeFOSAA	570.1 > 419	4.19e3	3.01e3	0.250		5.45		17.4	42.1894	
30	66 Total N-EtFOSAA	584.2 > 419	3.38e3	3.32e3	0.250		5.61		12.8	39.4986	

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H See orig. inj.

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-95.qld

Last Altered: Thursday, January 18, 2018 10:52:06 Pacific Standard Time

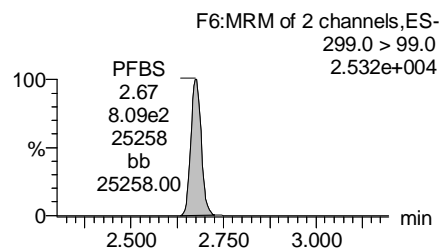
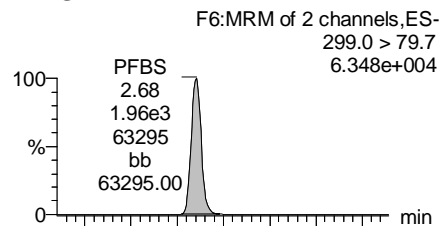
Printed: Thursday, January 18, 2018 10:52:55 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

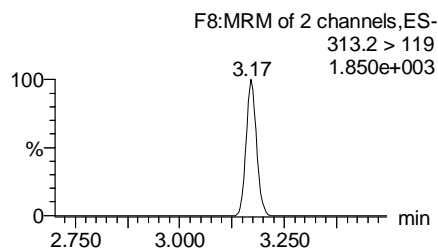
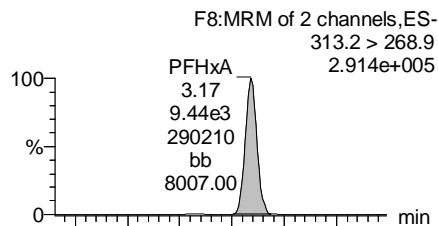
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Name: 180115M2_95, Date: 16-Jan-2018, Time: 18:38:14, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

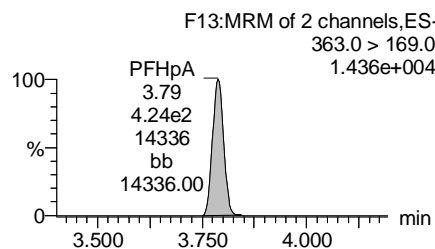
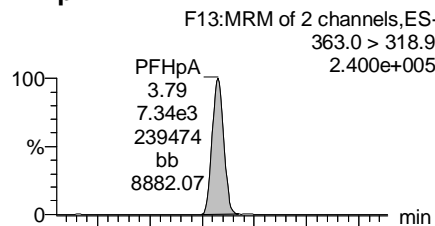
PFBS



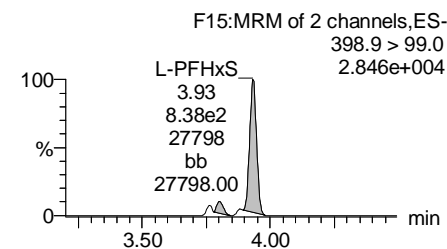
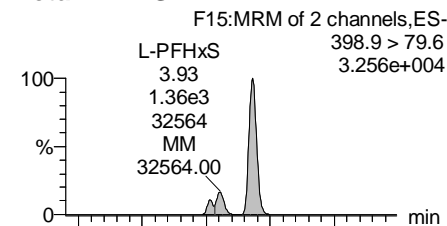
PFHxA



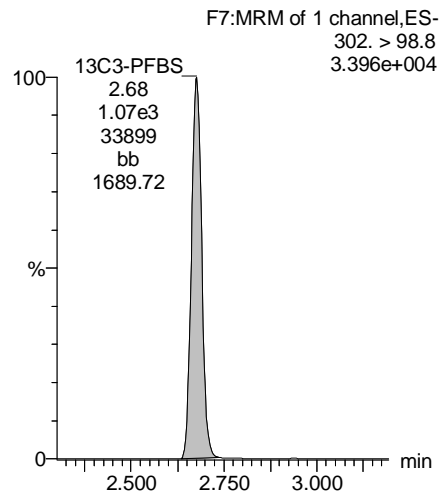
PFHpA



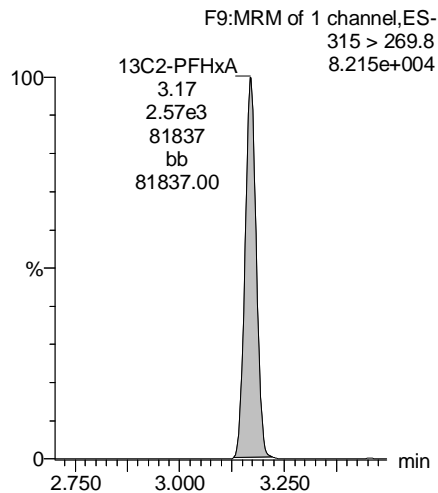
Total PFHxS



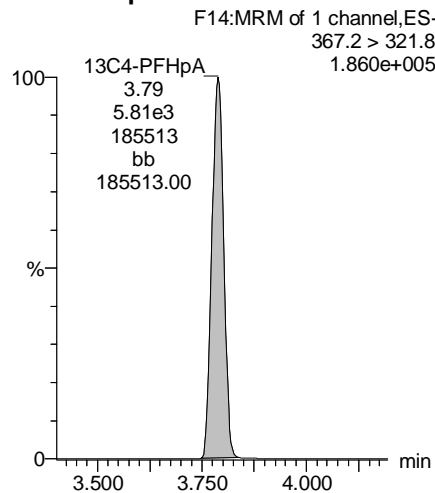
13C3-PFBS



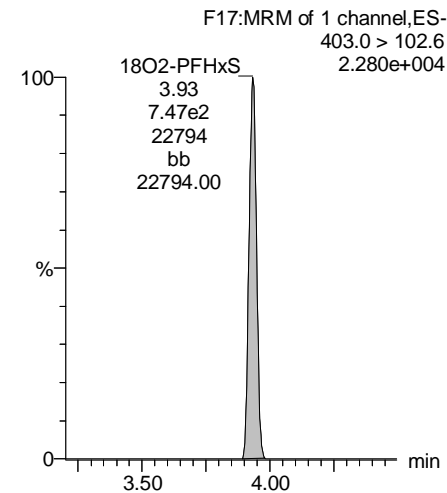
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



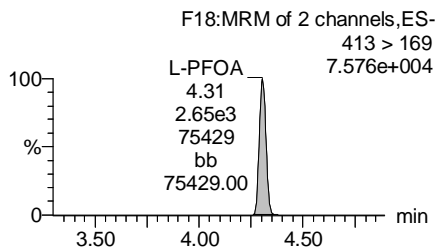
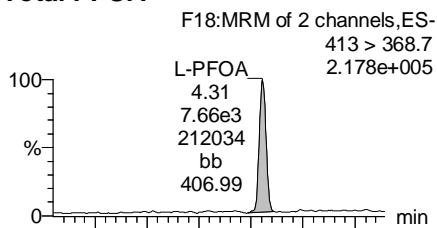
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Last Altered: Thursday, January 18, 2018 10:52:06 Pacific Standard Time

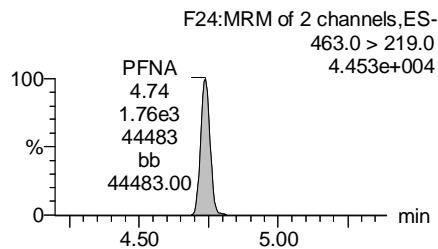
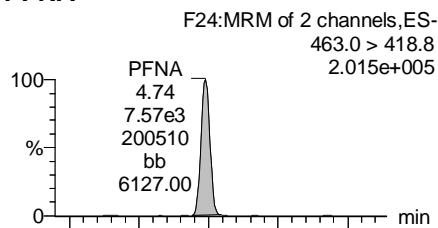
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Name: 180115M2_95, Date: 16-Jan-2018, Time: 18:38:14, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

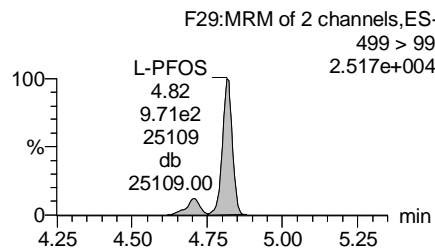
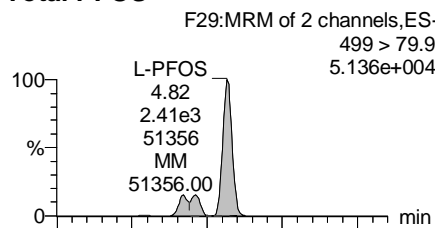
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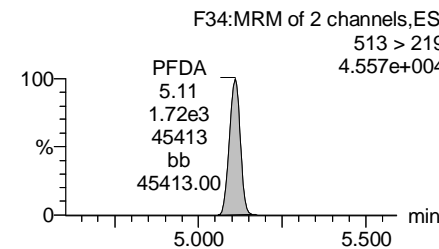
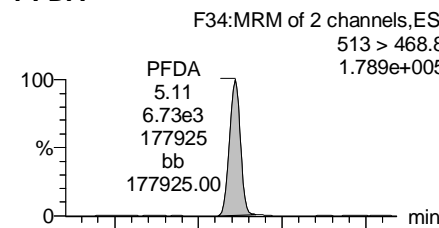
PFNA



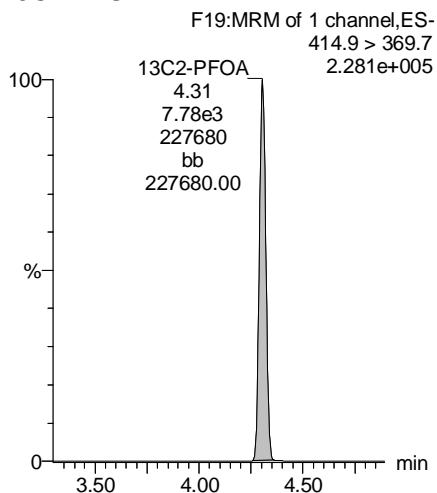
Total PFOS



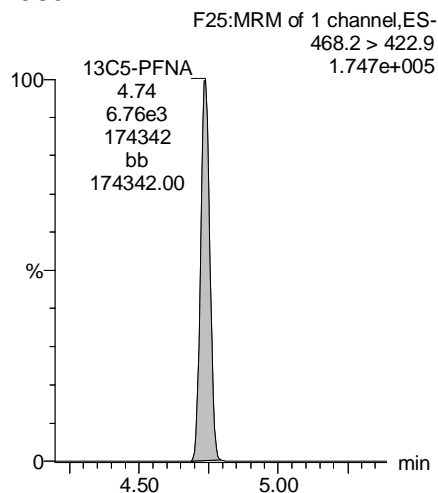
PFDA



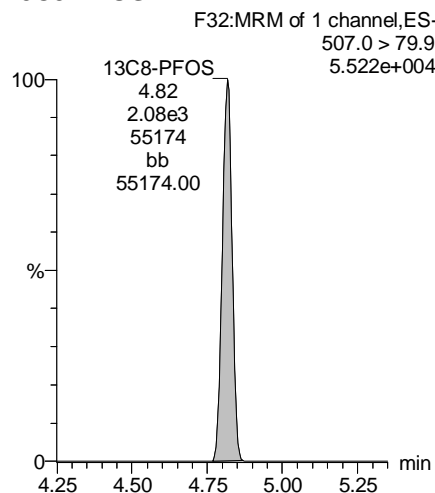
13C2-PFOA



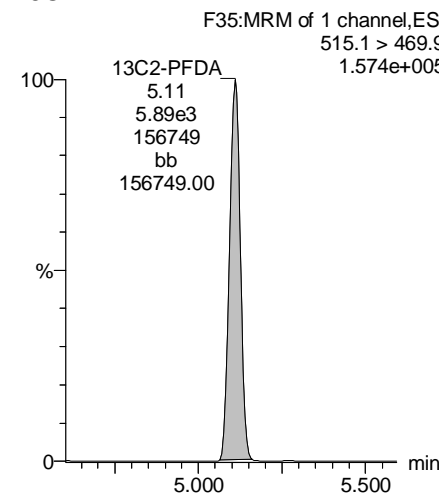
13C5-PFNA



13C8-PFOS



13C2-PFDA



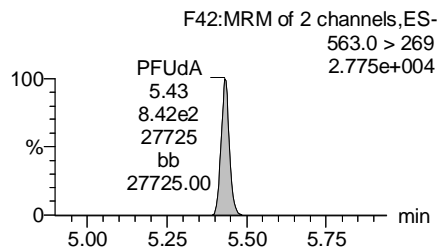
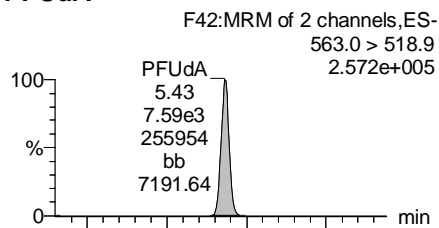
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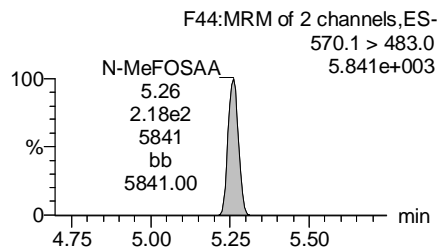
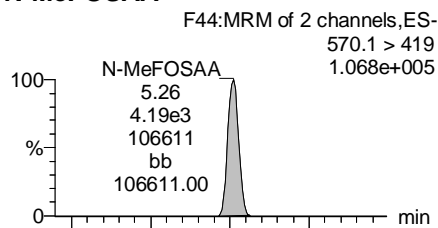
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Name: 180115M2_95, Date: 16-Jan-2018, Time: 18:38:14, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

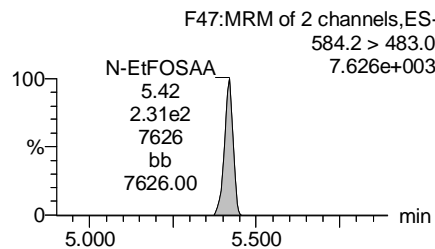
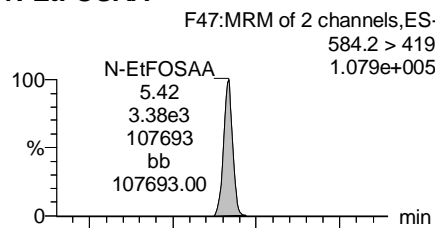
PFUdA



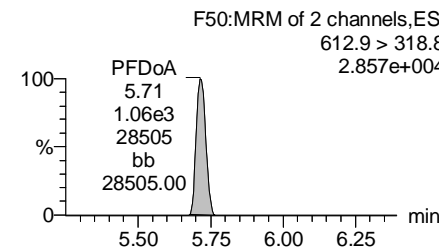
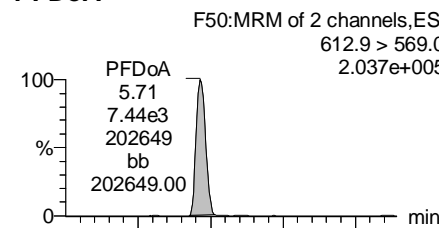
N-MeFOSAA



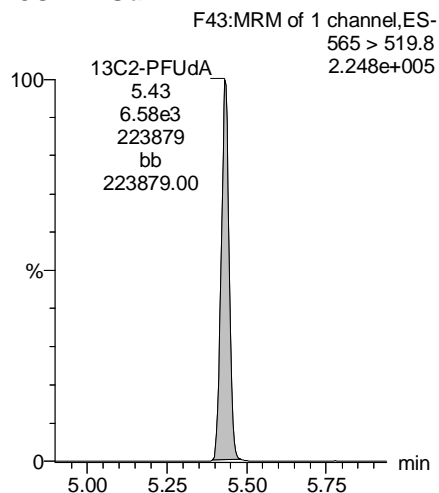
N-EtFOSAA



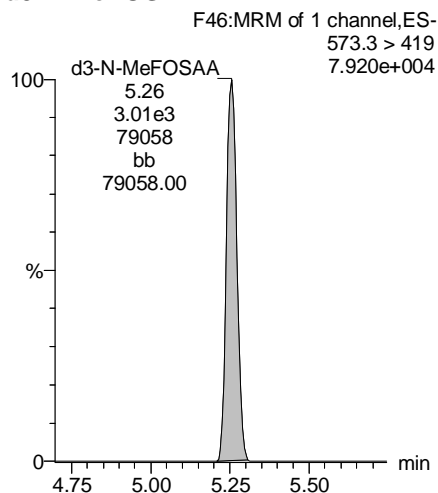
PFDaA



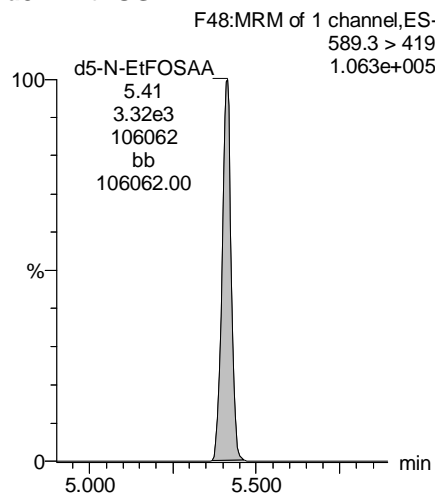
13C2-PFUdA



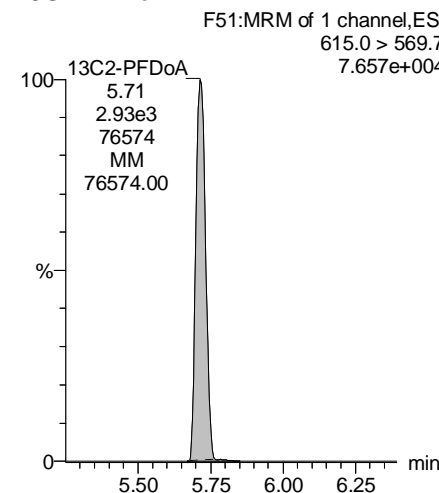
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



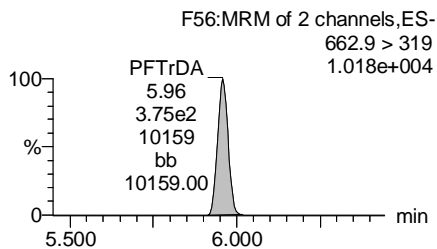
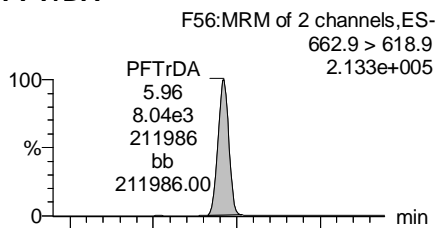
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Last Altered: Thursday, January 18, 2018 10:52:06 Pacific Standard Time

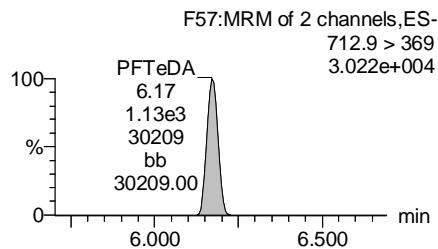
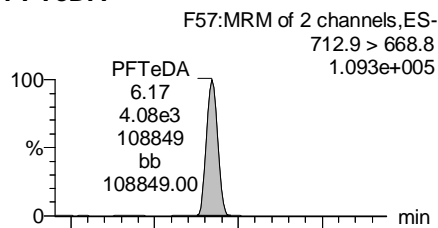
Printed: Thursday, January 18, 2018 10:52:55 Pacific Standard Time

Name: 180115M2_95, Date: 16-Jan-2018, Time: 18:38:14, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

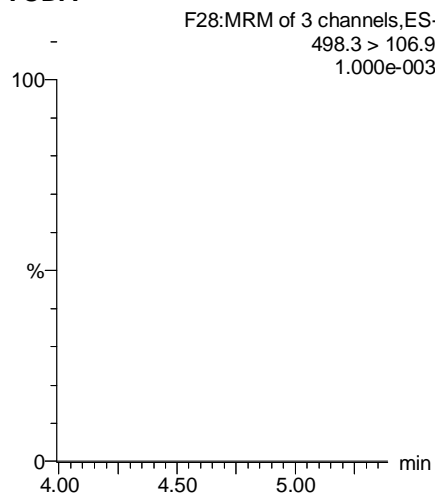
PFTrDA



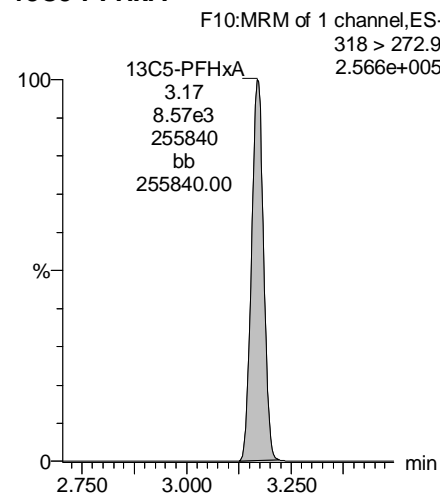
PFTeDA



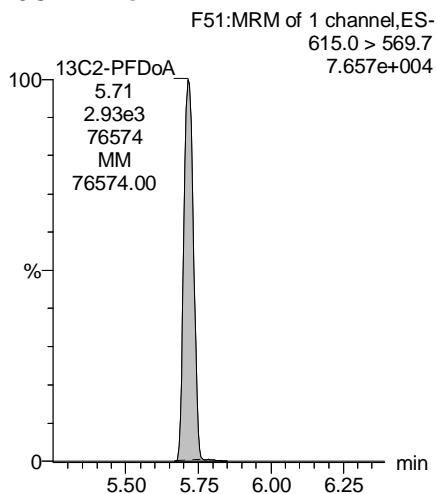
TCDA



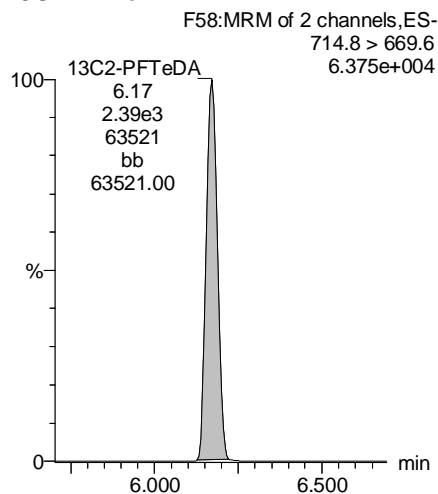
13C5-PFHxA



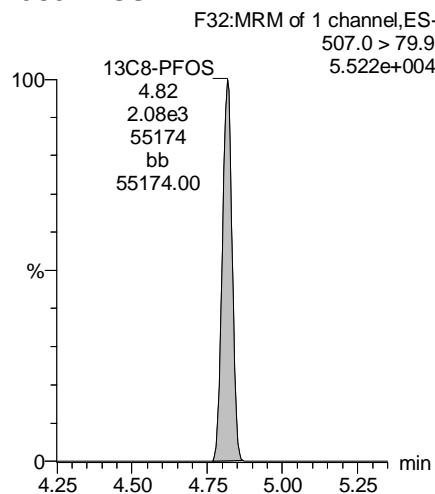
13C2-PFDoA



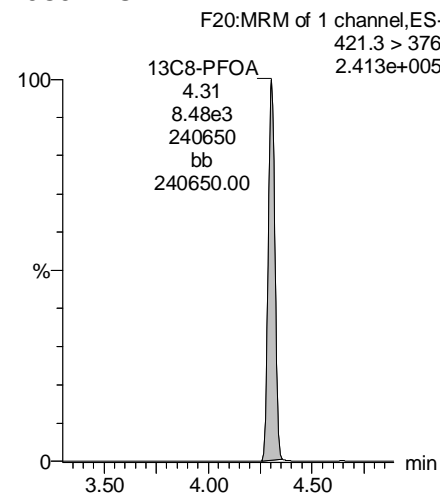
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-95.qld

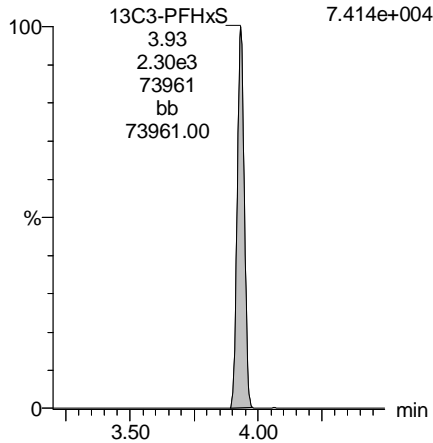
Last Altered: Thursday, January 18, 2018 10:52:06 Pacific Standard Time

Printed: Thursday, January 18, 2018 10:52:55 Pacific Standard Time

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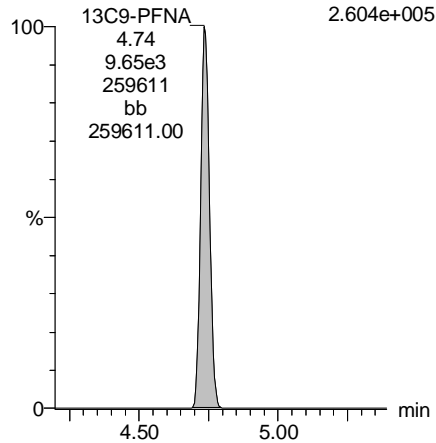
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.414e+004



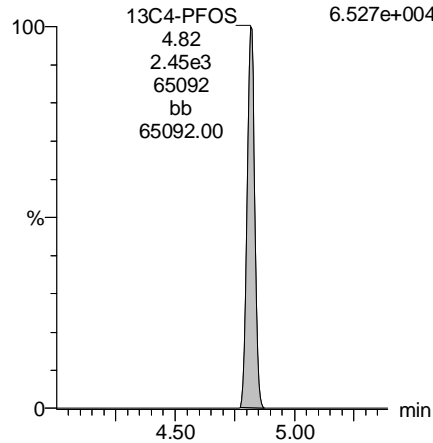
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.604e+005



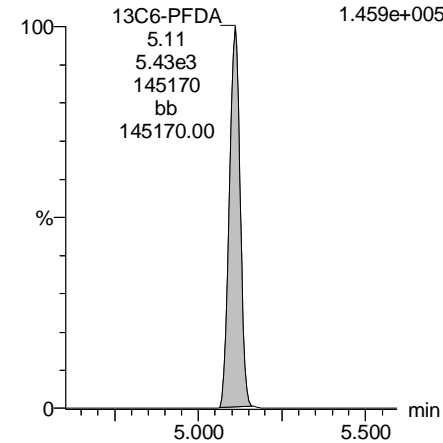
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.527e+004



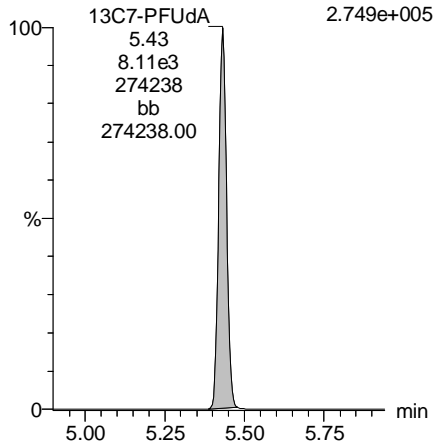
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.459e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.749e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-48.qld

Last Altered: Tuesday, January 16, 2018 13:06:56 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:07:41 Pacific Standard Time

See RI for all except PFUDA and PFTeDA

*See dilution.

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_48, Date: 16-Jan-2018, Time: 09:12:40, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.23e2	0.257		2.87				
2	4 PFHxA	313.2 > 268.9	1.67e3	2.09e3	0.257		3.36	3.22	3.99	8.8140	
3	5 PFHpA	363.0 > 318.9	2.92e3	5.41e3	0.257		4.00	3.84	6.76	17.7365	
4	6 L-PFHxS	398.9 > 79.6	2.30e1	6.66e2	0.257		4.14	3.99	0.432	0.7259	
5	9 L-PFOA	413 > 368.7	5.08e3	6.36e3	0.257		4.50	4.35	9.98	33.4887	
6	12 PFNA	463.0 > 418.8	1.27e5	5.00e3	0.257		4.94	4.78	318	776.0241 E*	
7	14 L-PFOS	499 > 79.9	1.39e2	1.77e3	0.257		5.02	4.86	0.980	3.5956	
8	16 PFDA	513 > 468.8	3.03e3	5.41e3	0.257		5.31	5.15	7.01	19.0147	
9	18 N-MeFOSAA	570.1 > 419		2.11e3	0.257		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.64e3	0.257		5.60				
11	20 PFUDA	563.0 > 518.9	4.96e4	6.21e3	0.257		5.62	5.47	99.8		
12	22 PFDaA	612.9 > 569.0		4.46e3	0.257		5.91				

Use only

Dataset: U:\Q4.PRO\results\180115M2\180115M2-48.qld

Last Altered: Tuesday, January 16, 2018 13:06:56 Pacific Standard Time

Printed: Tuesday, January 16, 2018 15:40:42 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_48, Date: 16-Jan-2018, Time: 09:12:40, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	4.46e3	0.257		6.15					
2	25	PFTeDA	712.9 > 668.8	2.18e3	0.257		6.35					
3	33	13C3-PFBS	302. > 98.8	9.23e2	8.71e3	0.257	0.095	2.87	2.73	1.32	54.2894	111.5
4	34	13C2-PFHxA	315 > 269.8	2.09e3	8.71e3	0.257	0.636	3.36	3.22	3.01	18.3938	94.5
5	35	13C4-PFHpA	367.2 > 321.8	5.41e3	8.71e3	0.257	0.621	4.00	3.84	7.77	48.7157	100.1
6	36	18O2-PFHxS	403.0 > 102.6	6.66e2	2.16e3	0.257	0.336	4.14	3.98	3.85	44.6676	91.8
7	37	13C2-6:2 FTS	429.1 > 408.9	1.22e3	8.05e3	0.257	0.192	4.46	4.30	1.89	38.2504	78.6
8	38	13C2-PFOA	414.9 > 369.7	6.36e3	8.05e3	0.257	1.001	4.50	4.35	9.88	38.4155	78.9
9	39	13C5-PFNA	468.2 > 422.9	5.00e3	8.15e3	0.257	0.811	4.94	4.78	7.66	36.8031	75.6
10	40	13C8-PFOSA	506.1 > 77.7	1.01e3	6.80e3	0.257	0.196	5.00	4.85	1.87	36.9731	76.0
11	41	13C8-PFOS	507.0 > 79.9	1.77e3	2.42e3	0.257	0.862	5.02	4.86	9.16	41.3907	85.0
12	42	13C2-PFDA	515.1 > 469.9	5.41e3	6.78e3	0.257	0.996	5.31	5.15	9.97	38.9871	80.1
13	43	13C2-8:2 FTS	529.1 > 508.7	7.84e2	8.71e3	0.257	0.103	5.28	5.12	1.13	42.5564	87.4
14	44	d3-N-MeFOSAA	573.3 > 419	2.11e3	6.80e3	0.257	0.340	5.45	5.30	3.89	44.5273	91.5
15	45	d5-N-EtFOSAA	589.3 > 419	2.64e3	6.80e3	0.257	0.377	5.60	5.45	4.86	50.2254	103.2
16	46	13C2-PFUdA	565 > 519.8	6.21e3	6.80e3	0.257	0.944	5.62	5.47	11.4	47.1484	96.9
17	47	13C2-PFDoA	615.0 > 569.7	4.46e3	6.80e3	0.257	0.726	5.91	5.75	8.20	43.9902	90.4
18	49	13C2-PFTeDA	714.8 > 669.6	2.18e3	6.80e3	0.257	0.371	6.35	6.20	4.00	41.9783	86.2
19	55	13C5-PFHxA	318 > 272.9	8.71e3	8.71e3	0.257	1.000	3.36	3.22	12.5	48.6760	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.16e3	2.16e3	0.257	1.000	4.14	3.98	12.5	48.6760	100.0
21	57	13C8-PFOA	421.3 > 376	8.05e3	8.05e3	0.257	1.000	4.50	4.35	12.5	48.6760	100.0
22	58	13C9-PFNA	472.2 > 426.9	8.15e3	8.15e3	0.257	1.000	4.94	4.78	12.5	48.6760	100.0
23	59	13C4-PFOS	503 > 79.9	2.42e3	2.42e3	0.257	1.000	5.02	4.86	12.5	48.6760	100.0
24	60	13C6-PFDA	519.1 > 473.7	6.78e3	6.78e3	0.257	1.000	5.31	5.15	12.5	48.6760	100.0
25	61	13C7-PFUdA	570.1 > 524.8	6.80e3	6.80e3	0.257	1.000	5.62	5.47	12.5	48.6760	100.0
26	62	Total PFHxS	398.9 > 79.6	2.30e1	6.66e2	0.257		4.14		0.432	0.7259	
27	63	Total PFOA	413 > 368.7	5.08e3	6.36e3	0.257		4.51		9.98	33.4887	
28	64	Total PFOS	499 > 79.9	1.39e2	1.77e3	0.257		5.02		0.980	3.5956	
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.11e3	0.257		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	2.64e3	0.257		5.61		0.000		

Use only

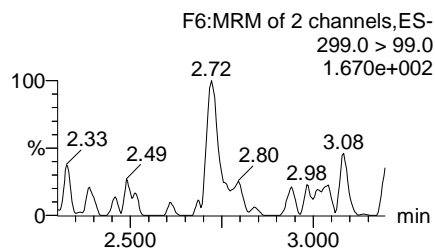
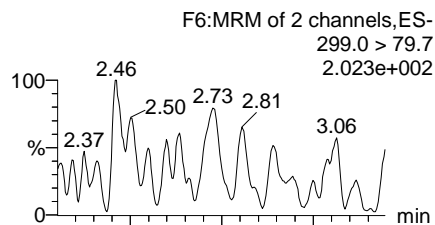
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Printed: Tuesday, January 16, 2018 13:07:55 Pacific Standard Time

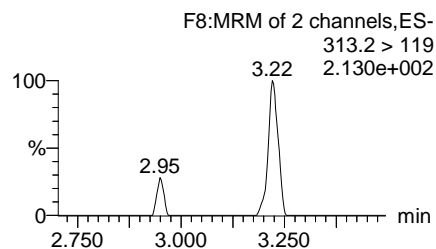
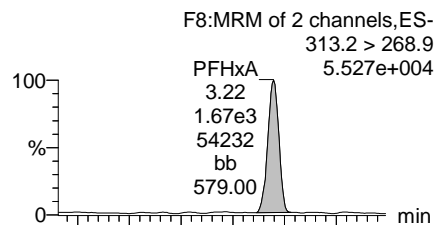
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_48, Date: 16-Jan-2018, Time: 09:12:40, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

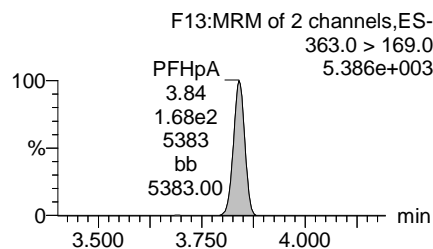
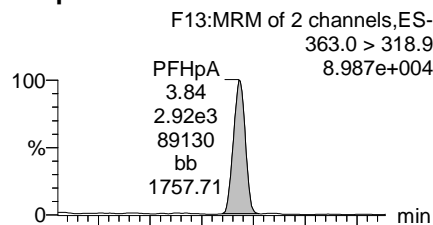
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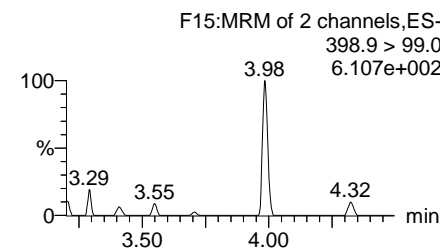
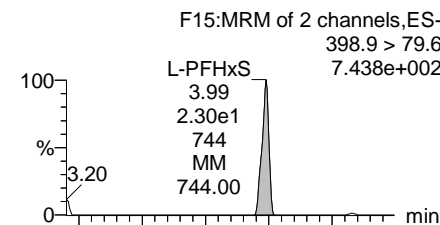
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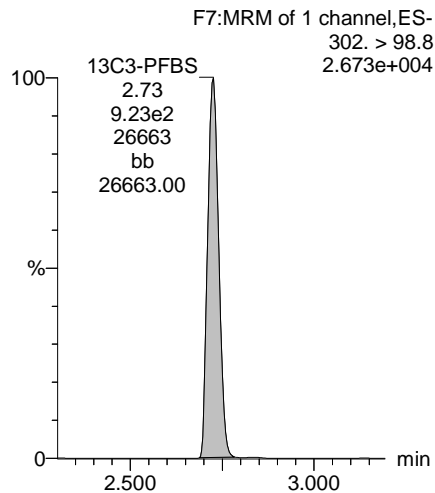
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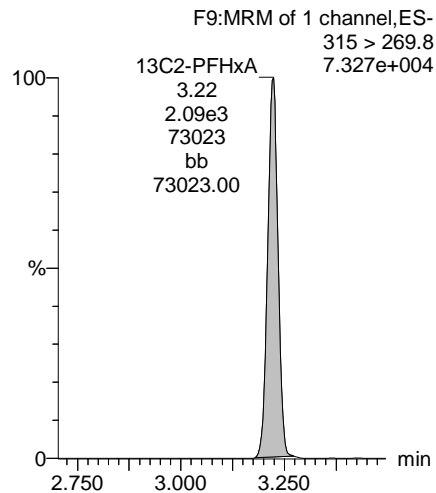
Total PFHxS



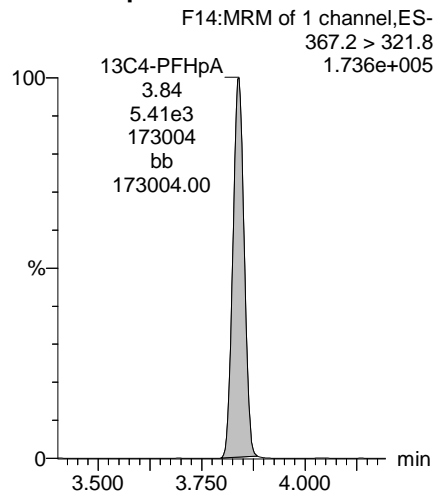
13C3-PFBS



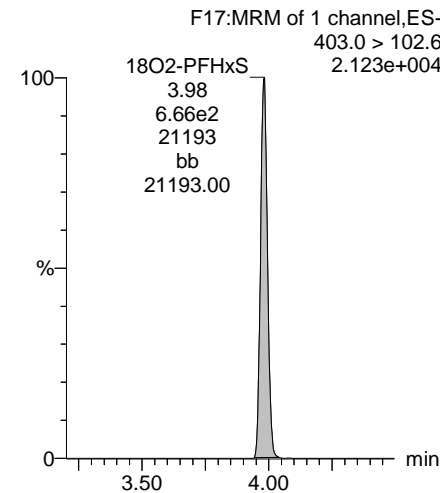
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

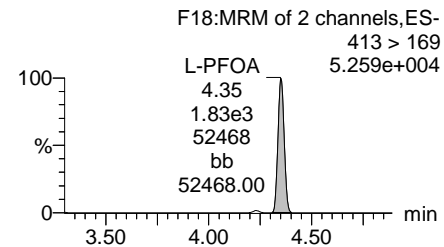
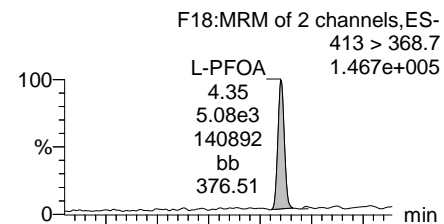


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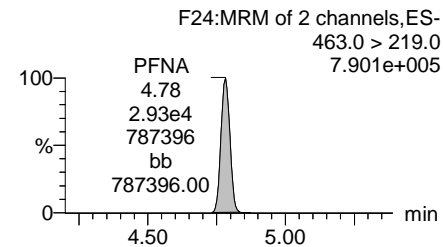
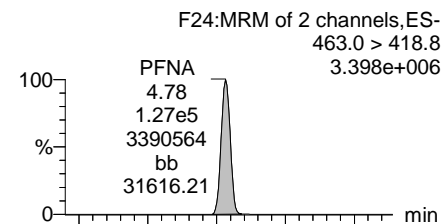
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Printed: Tuesday, January 16, 2018 13:07:55 Pacific Standard Time

Name: 180115M2_48, Date: 16-Jan-2018, Time: 09:12:40, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

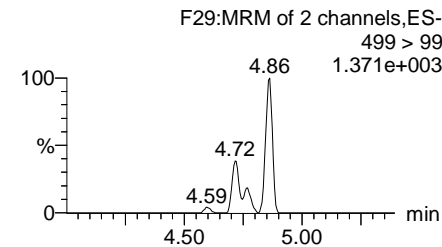
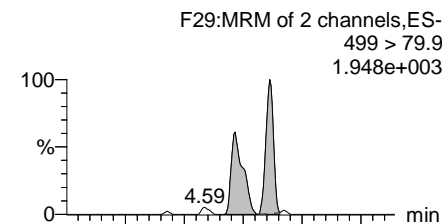
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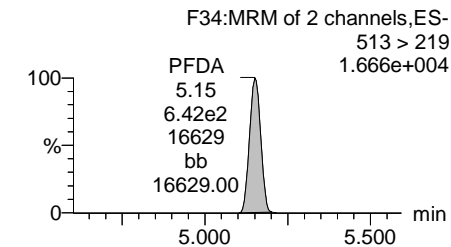
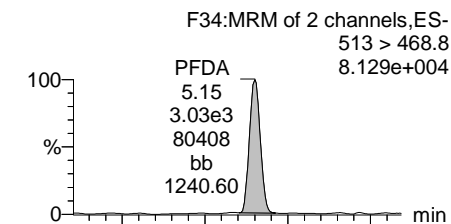
PFNA



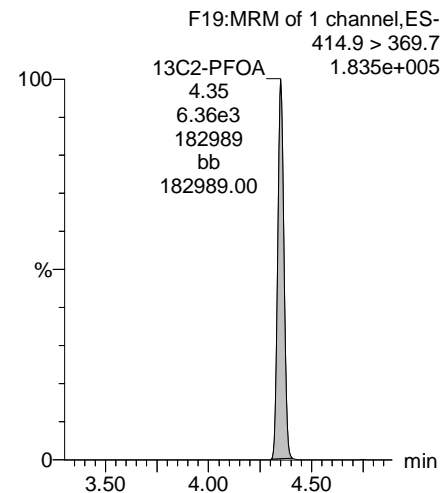
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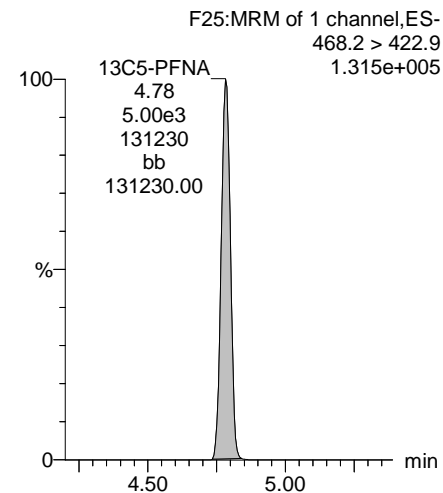
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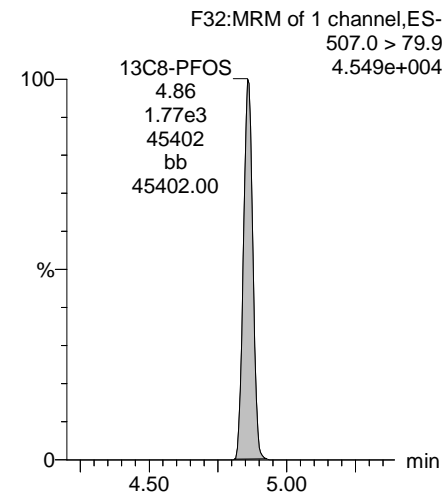
13C2-PFOA



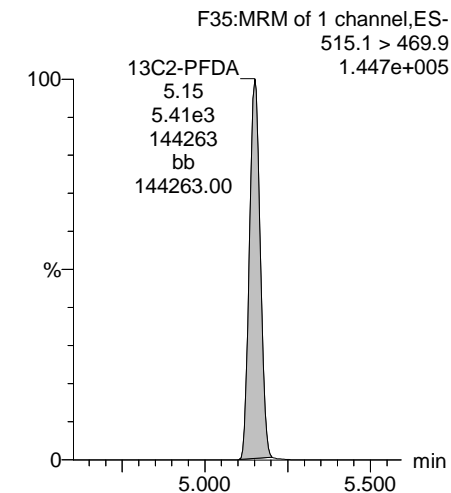
13C5-PFNA



13C8-PFOS



13C2-PFDA



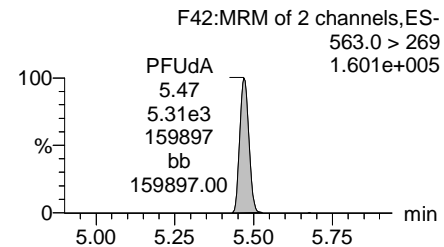
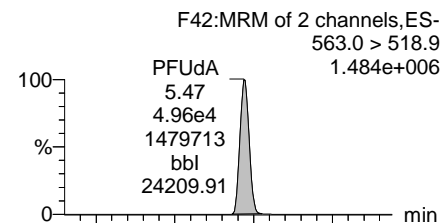
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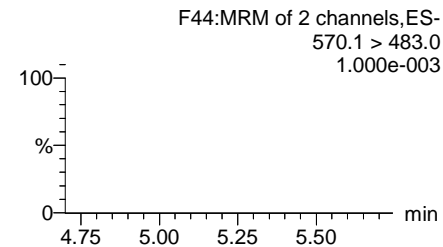
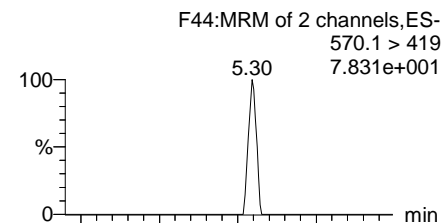
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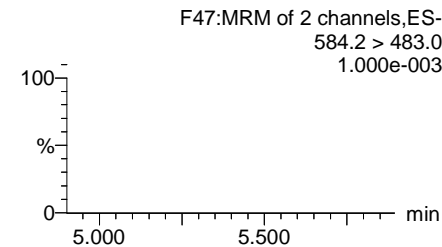
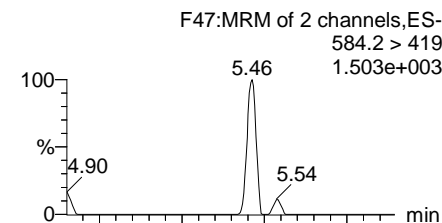
PFUdA



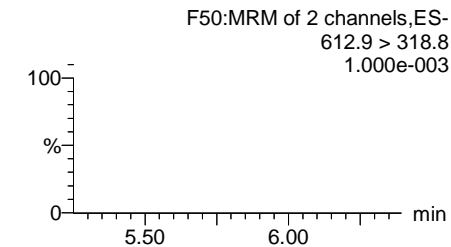
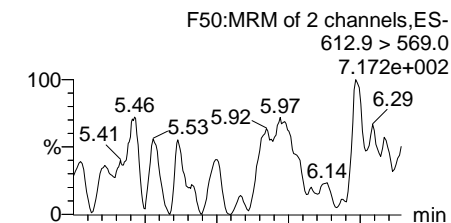
N-MeFOSAA



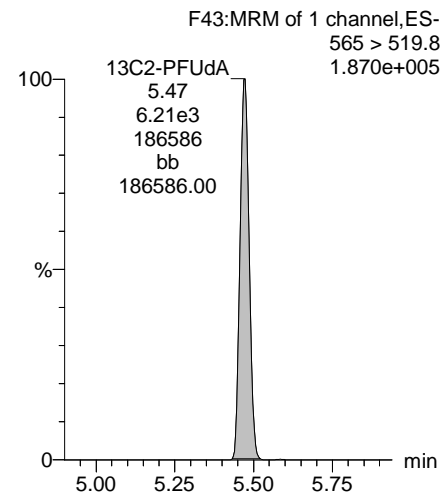
N-EtFOSAA



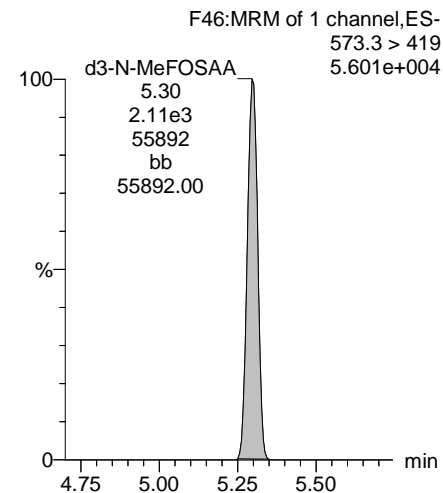
PFDaA



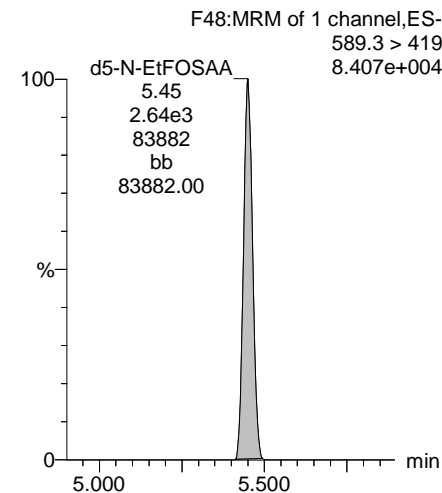
13C2-PFUdA



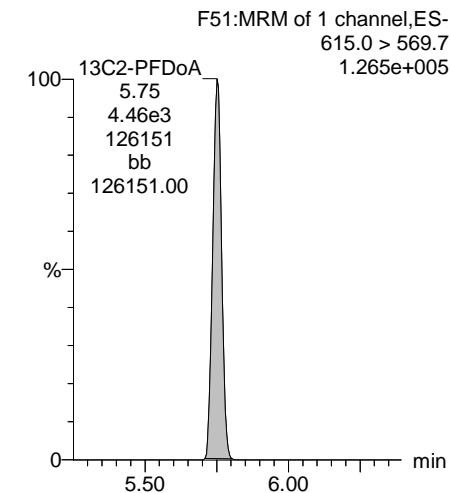
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



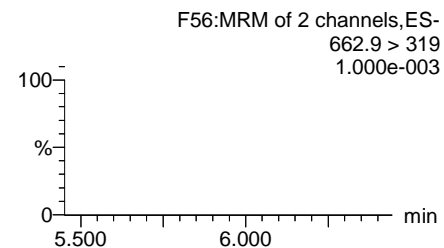
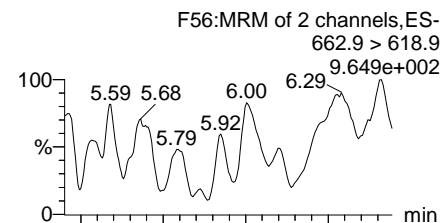
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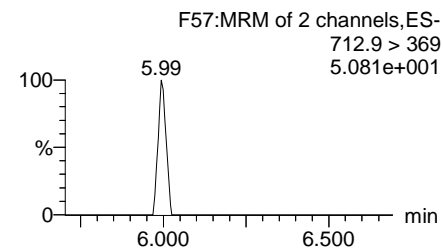
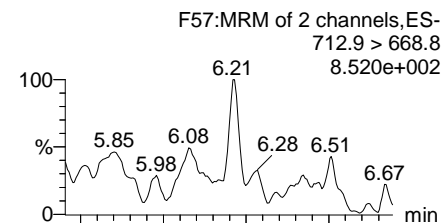
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Name: 180115M2_48, Date: 16-Jan-2018, Time: 09:12:40, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

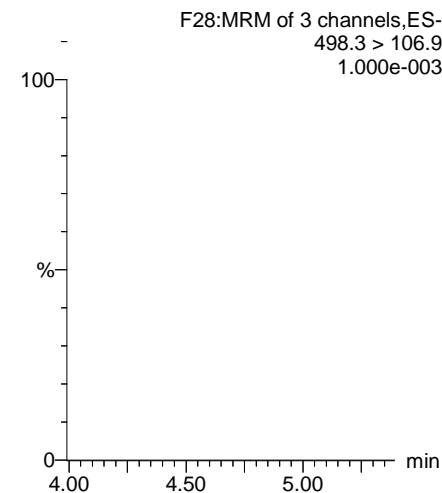
PFTrDA



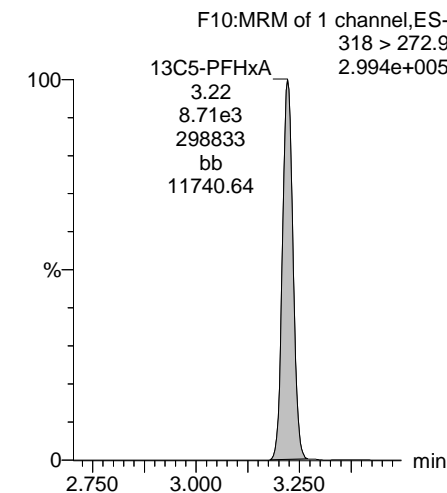
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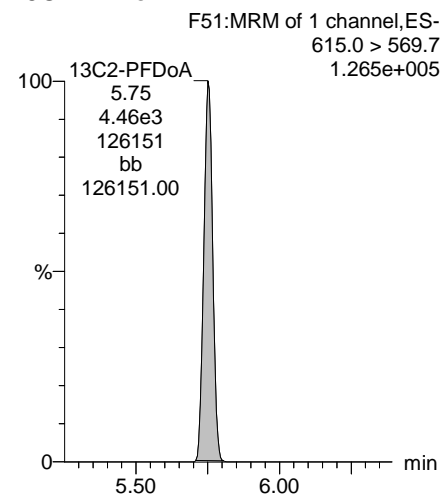
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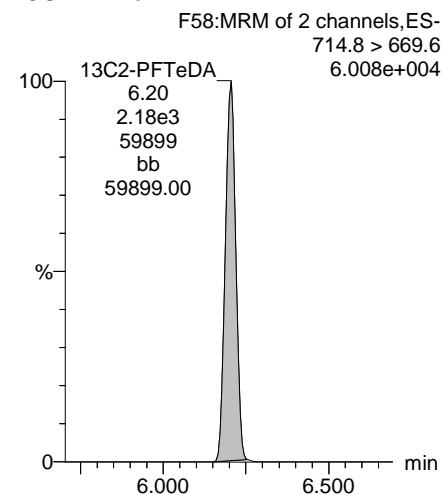
13C5-PFHxA



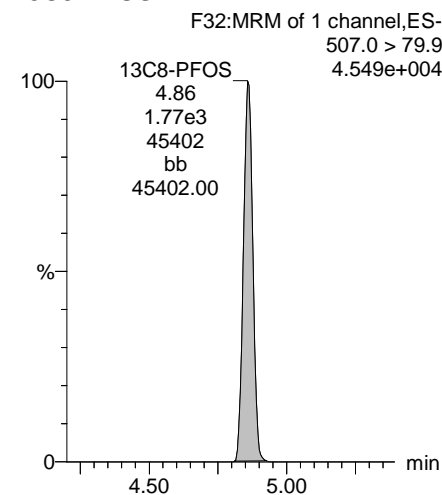
13C2-PFDoA



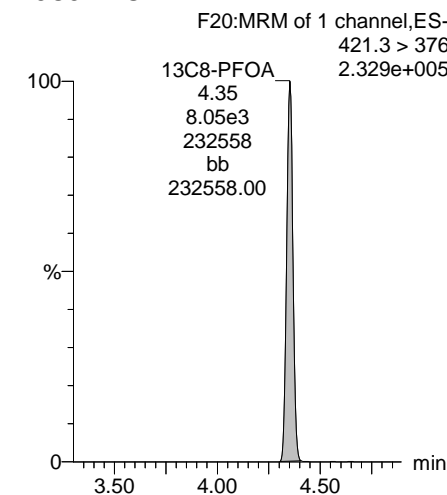
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



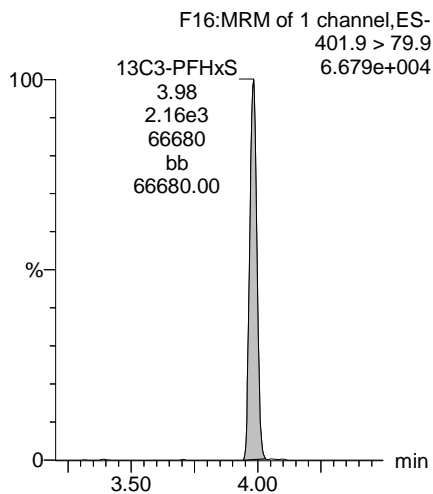
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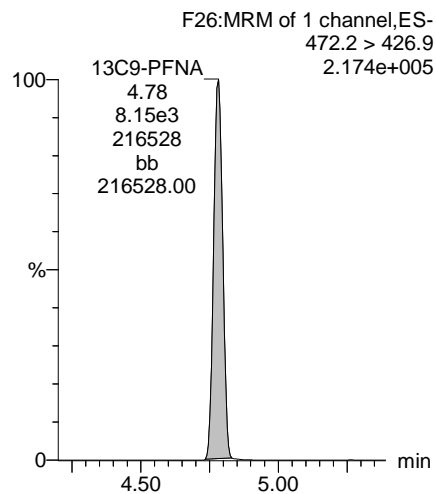
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Name: 180115M2_48, Date: 16-Jan-2018, Time: 09:12:40, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

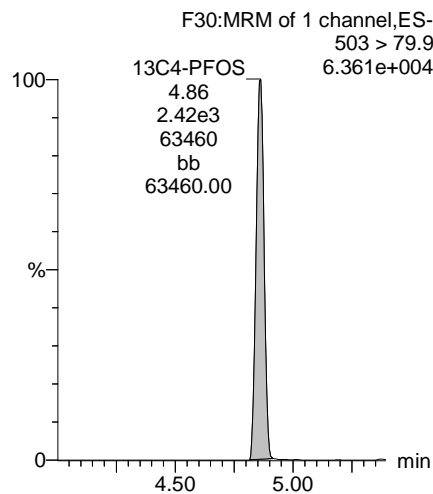
13C3-PFHxS



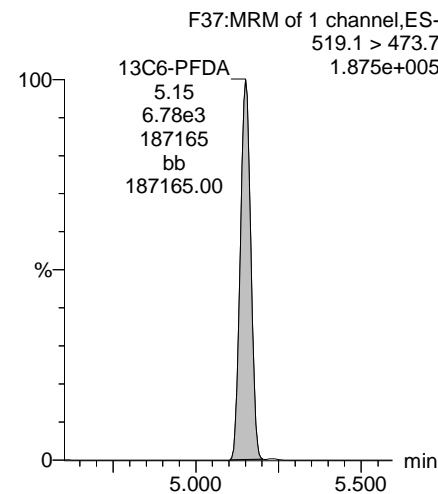
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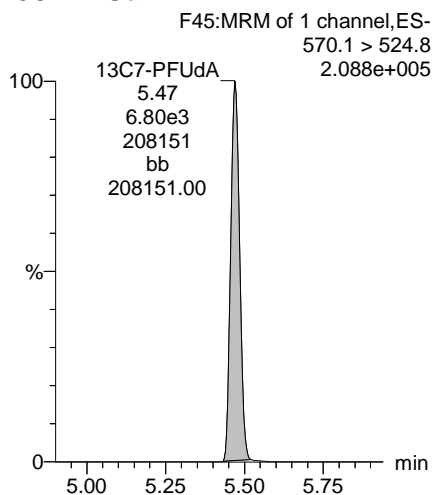
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-102.qld

Last Altered: Thursday, January 18, 2018 11:05:49 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:06:20 Pacific Standard Time

See dilution.

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.07e2	0.257		2.87				
2	4 PFHxA	313.2 > 268.9	1.83e3	2.06e3	0.257		3.36	3.16	4.45	9.8361	
3	5 PFHpA	363.0 > 318.9	3.16e3	5.25e3	0.257		4.00	3.78	7.52	19.7195	
4	6 L-PFHxS	398.9 > 79.6	2.55e1	7.07e2	0.257		3.94	3.93	0.451	0.7615	
5	9 L-PFOA	413 > 368.7	4.57e3	6.58e3	0.257		4.34	4.30	8.67	28.9325	
6	12 PFNA	463.0 > 418.8	1.39e5	6.50e3	0.257		4.94	4.73	267	665.4921 E*	
7	14 L-PFOS	499 > 79.9	1.20e2	2.09e3	0.257		5.02	4.82	0.717	2.6741	
8	16 PFDA	513 > 468.8	2.44e3	5.38e3	0.257		5.31	5.10	5.67	15.3897	
9	18 N-MeFOSAA	570.1 > 419		2.45e3	0.257		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.90e3	0.257		5.60				
11	20 PFUdA	563.0 > 518.9	4.66e4	5.22e3	0.257		5.62	5.43	112		
12	22 PFDoA	612.9 > 569.0		2.99e3	0.257		5.91				

See original inj

Dataset: U:\Q4.PRO\results\180115M2\180115M2-102.qld

Last Altered: Thursday, January 18, 2018 11:05:49 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:06:29 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		2.99e3	0.257		6.15				
2	25 PFTeDA	712.9 > 668.8		2.21e3	0.257		6.35				
3	33 13C3-PFBS	302. > 98.8	9.07e2	8.45e3	0.257	0.095	2.87	2.67	1.34	54.9673	112.9
4	34 13C2-PFHxA	315 > 269.8	2.06e3	8.45e3	0.257	0.636	3.36	3.16	3.04	18.6206	95.6
5	35 13C4-PFHpA	367.2 > 321.8	5.25e3	8.45e3	0.257	0.621	4.00	3.78	7.76	48.6871	100.0
6	36 18O2-PFHxS	403.0 > 102.6	7.07e2	2.20e3	0.257	0.336	4.14	3.93	4.02	46.5615	95.7
7	37 13C2-6:2 FTS	429.1 > 408.9	1.51e3	7.05e3	0.257	0.192	4.46	4.24	2.68	54.2875	111.5
8	38 13C2-PFOA	414.9 > 369.7	6.58e3	7.05e3	0.257	1.001	4.50	4.30	11.7	45.4217	93.3
9	39 13C5-PFNA	468.2 > 422.9	6.50e3	7.02e3	0.257	0.811	4.94	4.73	11.6	55.5721	114.2
10	40 13C8-PFOA	506.1 > 77.7	1.31e3	6.50e3	0.257	0.196	5.00	4.79	2.52	49.9449	102.6
11	41 13C8-PFOS	507.0 > 79.9	2.09e3	2.17e3	0.257	0.862	5.02	4.81	12.0	54.3813	111.7
12	42 13C2-PFDA	515.1 > 469.9	5.38e3	4.47e3	0.257	0.996	5.31	5.10	15.0	58.8049	120.8
13	43 13C2-8:2 FTS	529.1 > 508.7	8.07e2	8.45e3	0.257	0.103	5.28	5.08	1.19	45.1114	92.7
14	44 d3-N-MeFOSAA	573.3 > 419	2.45e3	6.50e3	0.257	0.340	5.45	5.25	4.70	53.8459	110.6
15	45 d5-N-EtFOSAA	589.3 > 419	2.90e3	6.50e3	0.257	0.377	5.60	5.41	5.57	57.5342	118.2
16	46 13C2-PFUdA	565 > 519.8	5.22e3	6.50e3	0.257	0.944	5.62	5.43	10.0	41.4174	85.1
17	47 13C2-PFDoA	615.0 > 569.7	2.99e3	6.50e3	0.257	0.726	5.91	5.71	5.75	30.8144	63.3
18	49 13C2-PFTeDA	714.8 > 669.6	2.21e3	6.50e3	0.257	0.371	6.35	6.17	4.26	44.6222	91.7
19	55 13C5-PFHxA	318 > 272.9	8.45e3	8.45e3	0.257	1.000	3.36	3.16	12.5	48.6760	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.20e3	2.20e3	0.257	1.000	4.14	3.93	12.5	48.6760	100.0
21	57 13C8-PFOA	421.3 > 376	7.05e3	7.05e3	0.257	1.000	4.50	4.30	12.5	48.6760	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.02e3	7.02e3	0.257	1.000	4.94	4.73	12.5	48.6760	100.0
23	59 13C4-PFOS	503 > 79.9	2.17e3	2.17e3	0.257	1.000	5.02	4.82	12.5	48.6760	100.0
24	60 13C6-PFDA	519.1 > 473.7	4.47e3	4.47e3	0.257	1.000	5.31	5.10	12.5	48.6760	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.50e3	6.50e3	0.257	1.000	5.62	5.43	12.5	48.6760	100.0
26	62 Total PFHxS	398.9 > 79.6	2.55e1	7.07e2	0.257		4.14		0.451	0.7615	
27	63 Total PFOA	413 > 368.7	4.57e3	6.58e3	0.257		4.51		8.67	28.9325	
28	64 Total PFOS	499 > 79.9	1.20e2	2.09e3	0.257		5.02		0.717	2.6741	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.45e3	0.257		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.90e3	0.257		5.61		0.000		

See original run

Dataset: U:\Q4.PRO\results\180115M2\180115M2-102.qld

Last Altered: Thursday, January 18, 2018 11:05:49 Pacific Standard Time

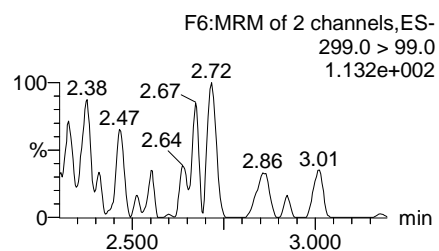
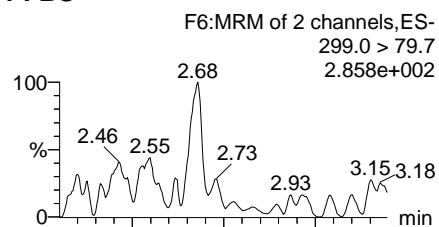
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Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

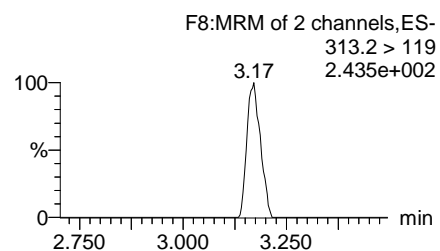
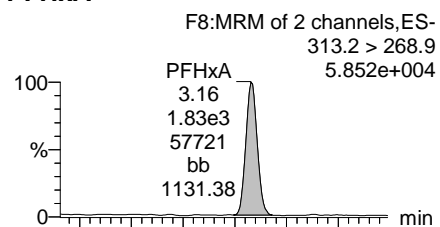
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Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

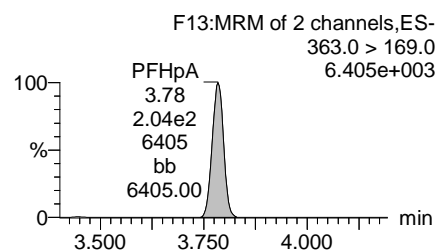
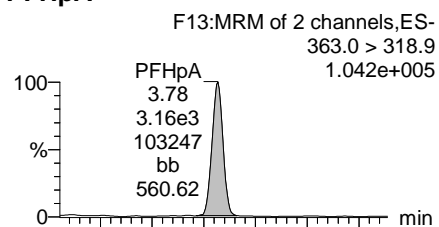
PFBS



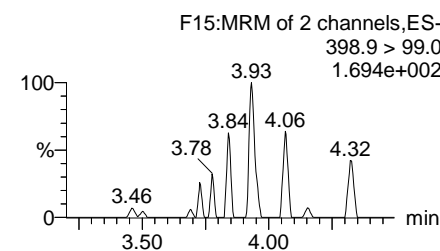
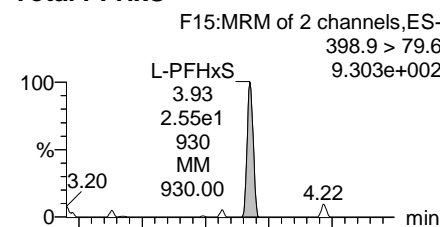
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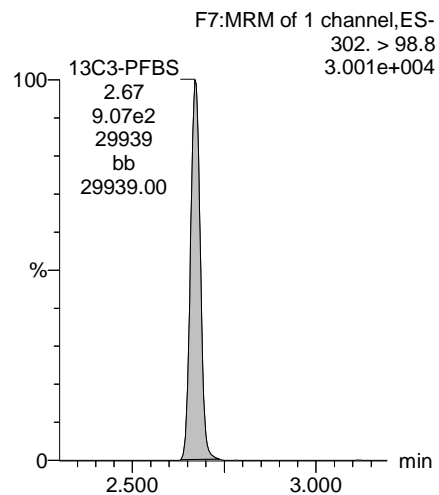
PFHpA



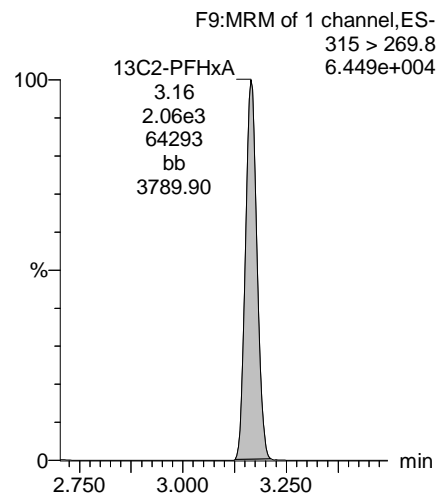
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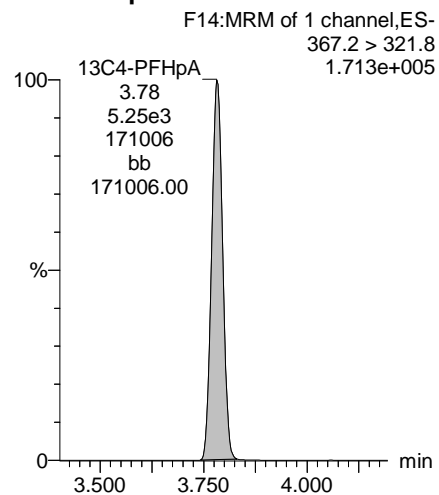
13C3-PFBS



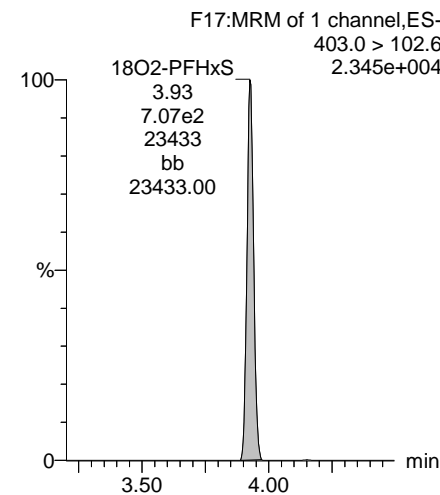
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



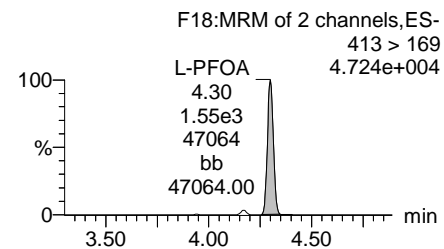
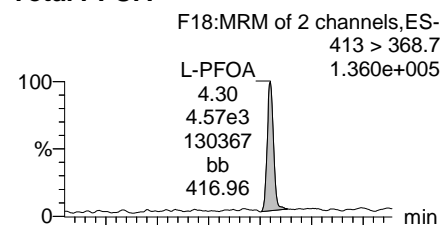
Dataset: U:\Q4.PRO\results\180115M2\180115M2-102.qld

Last Altered: Thursday, January 18, 2018 11:05:49 Pacific Standard Time

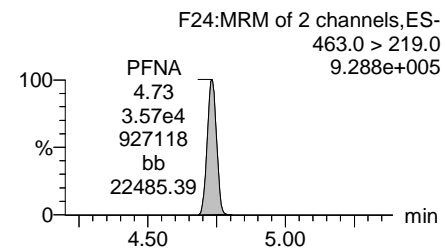
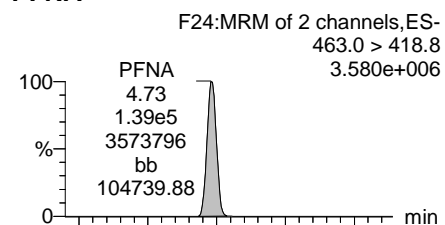
Printed: Thursday, January 18, 2018 11:06:29 Pacific Standard Time

Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

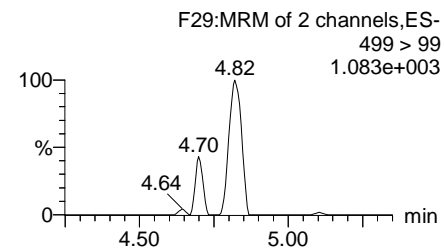
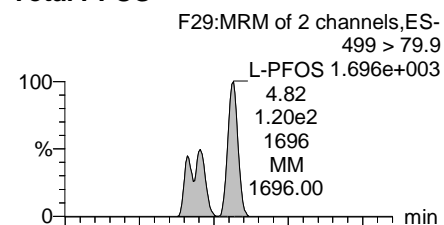
Total PFOA



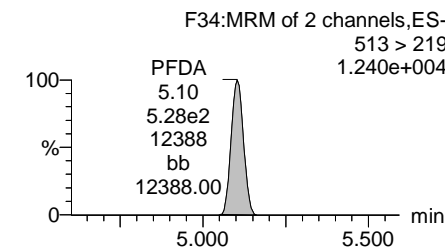
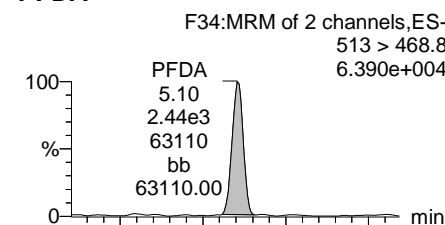
PFNA



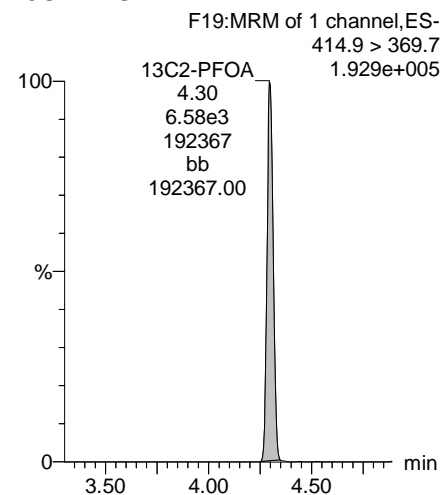
Total PFOS



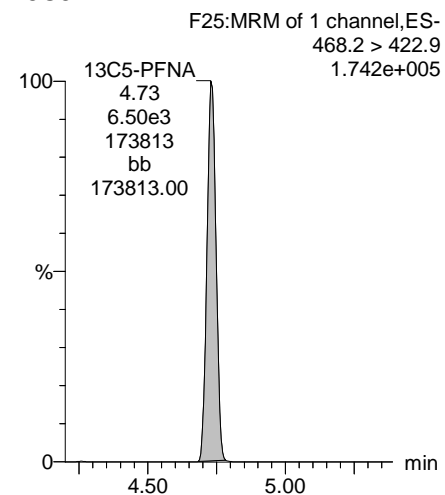
PFDA



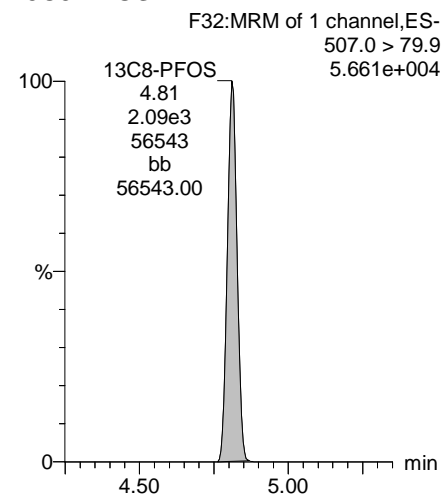
13C2-PFOA



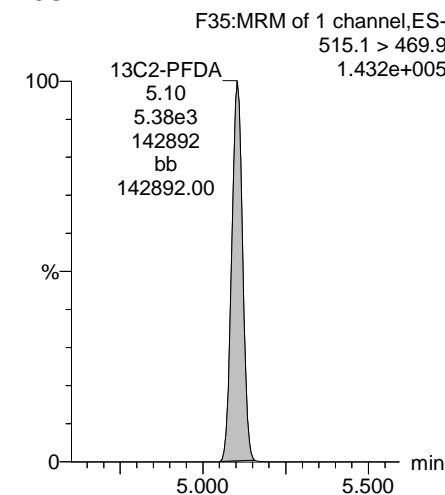
13C5-PFNA



13C8-PFOS



13C2-PFDA

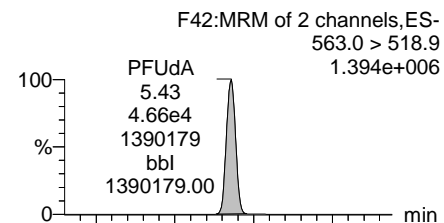


Dataset: U:\Q4.PRO\results\180115M2\180115M2-102.qld

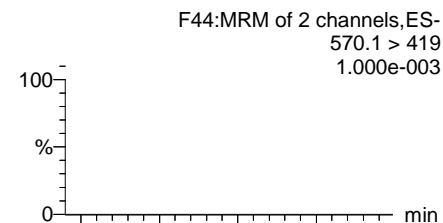
Last Altered: Thursday, January 18, 2018 11:05:49 Pacific Standard Time
Printed: Thursday, January 18, 2018 11:06:29 Pacific Standard Time

Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

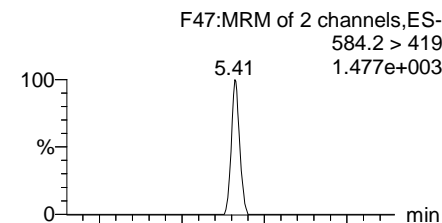
PFUdA



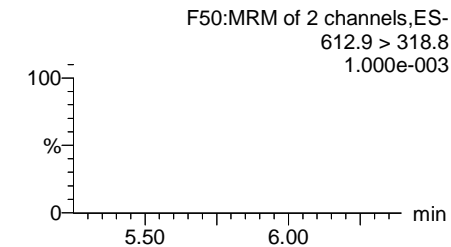
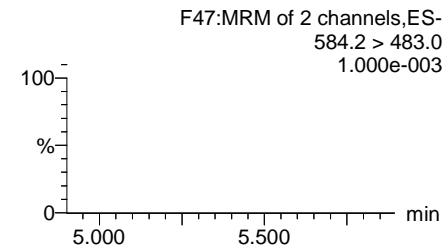
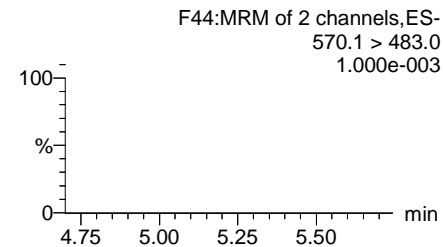
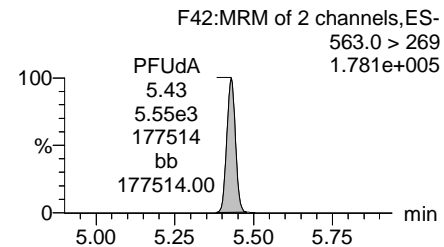
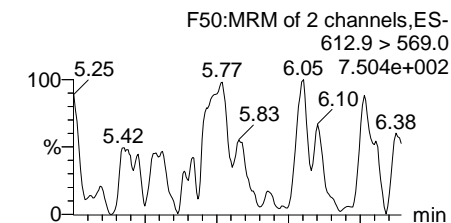
N-MeFOSAA



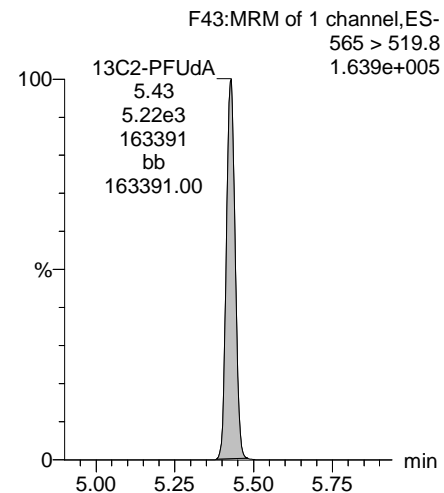
N-EtFOSAA



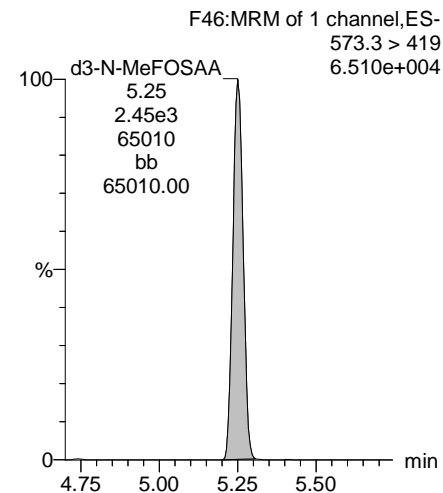
PFDoA



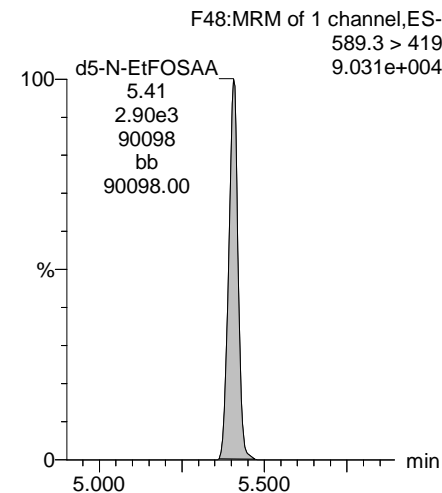
13C2-PFUdA



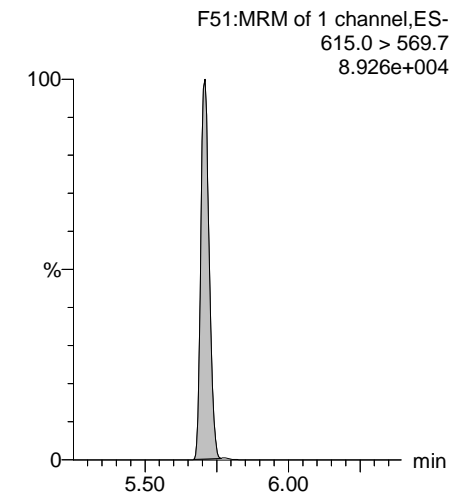
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



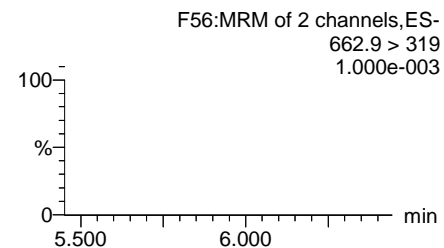
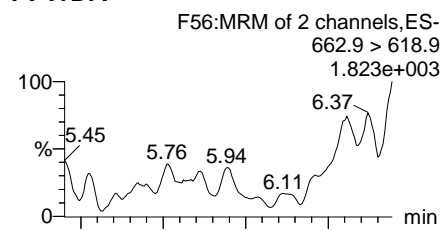
Dataset: U:\Q4.PRO\results\180115M2\180115M2-102.qld

Last Altered: Thursday, January 18, 2018 11:05:49 Pacific Standard Time

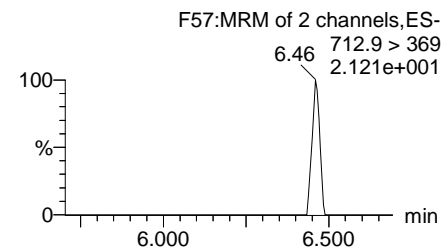
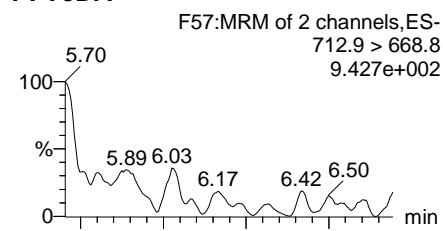
Printed: Thursday, January 18, 2018 11:06:29 Pacific Standard Time

Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

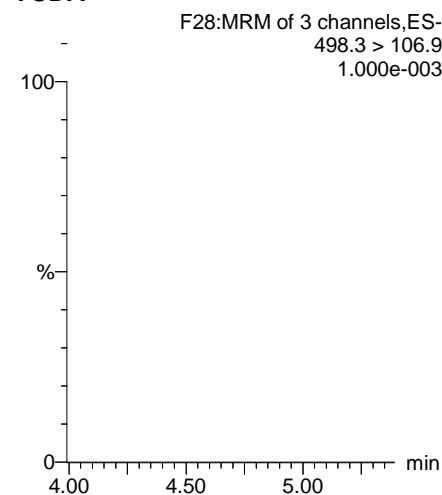
PFTrDA



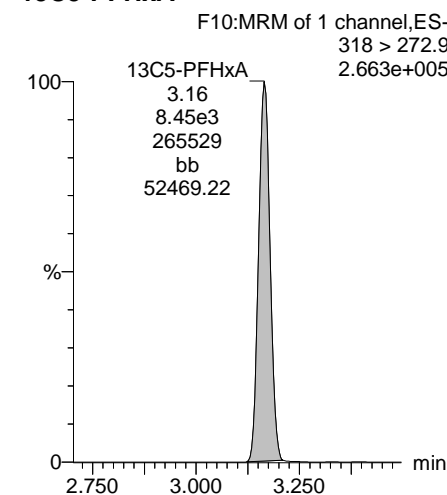
PFTeDA



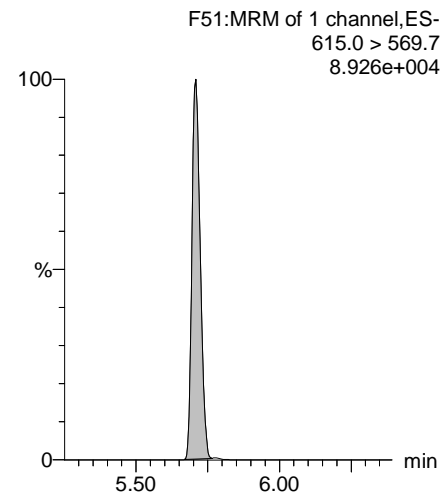
TCDA



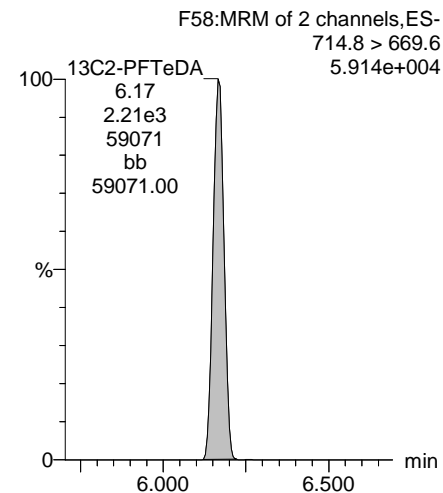
13C5-PFHxA



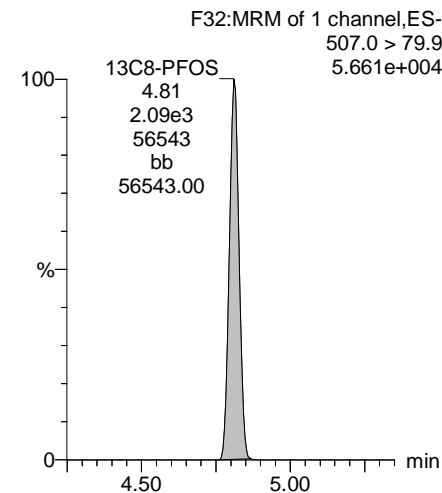
13C2-PFDoA



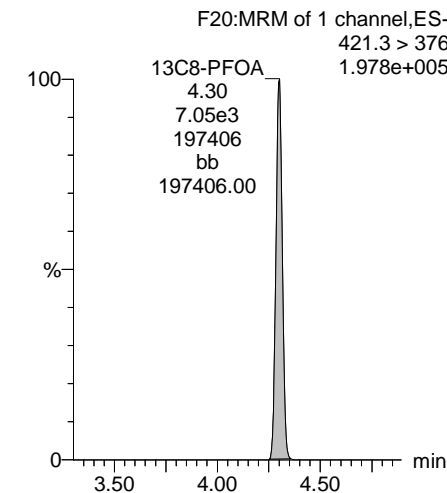
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



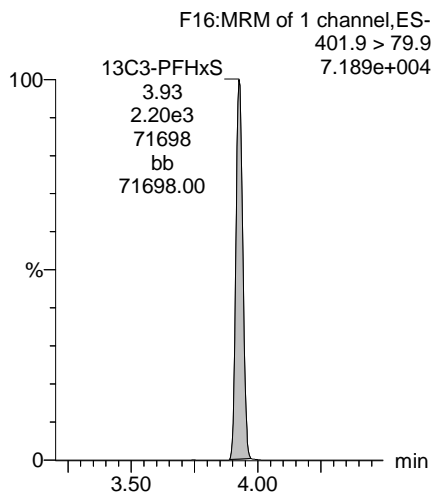
Dataset: U:\Q4.PRO\results\180115M2\180115M2-102.qld

Last Altered: Thursday, January 18, 2018 11:05:49 Pacific Standard Time

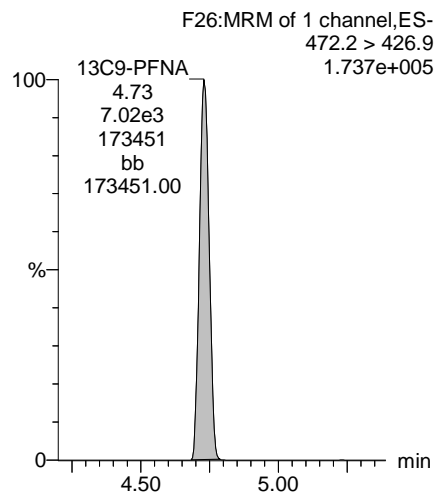
Printed: Thursday, January 18, 2018 11:06:29 Pacific Standard Time

Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

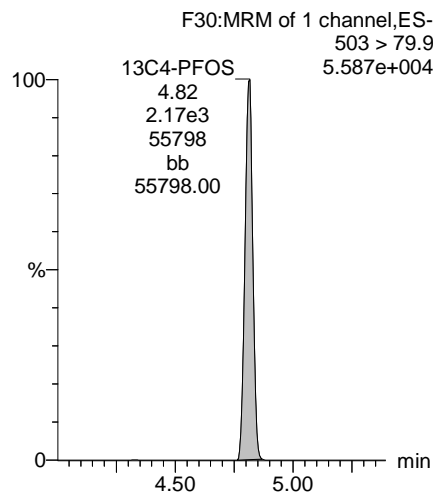
13C3-PFHxS



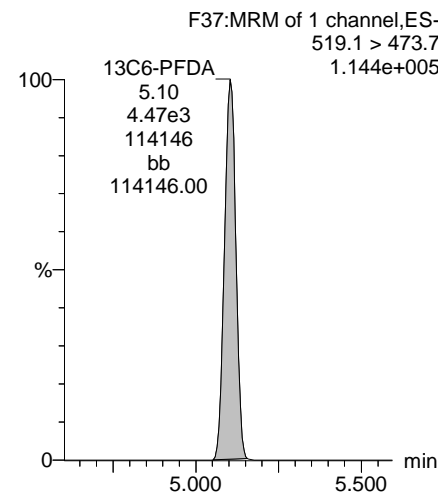
13C9-PFNA



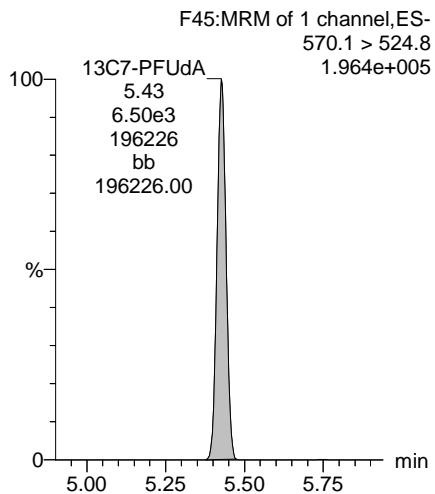
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-97.qld

Last Altered: Thursday, January 18, 2018 10:58:39 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:03:13 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_97, Date: 16-Jan-2018, Time: 19:01:07, ID: 1701953-01@5X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

	# Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	12 PFNA	463.0 > 418.8	3.13e4	1.20e3		0.2568	4.94	4.73	325	790	
2	39 13C5-PFNA	468.2 > 422.9	1.20e3	1.95e3	0.811	0.2568	4.94	4.74	7.72	37.1	76.1
3	58 13C9-PFNA	472.2 > 426.9	1.95e3	1.95e3	1.000	0.2568	4.94	4.74	12.5	48.7	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-97.qld

Last Altered: Thursday, January 18, 2018 10:58:39 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:03:13 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

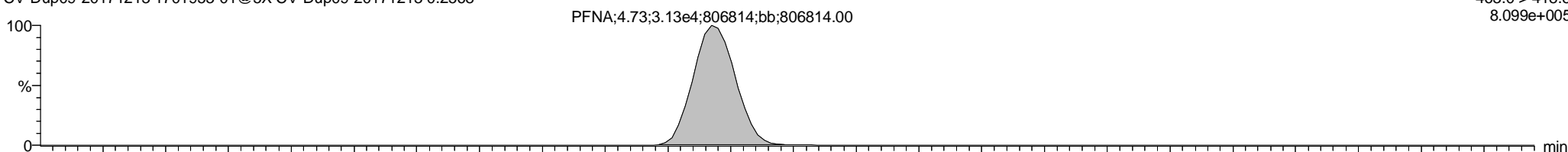
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_97, Date: 16-Jan-2018, Time: 19:01:07, ID: 1701953-01@5X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

PFNA

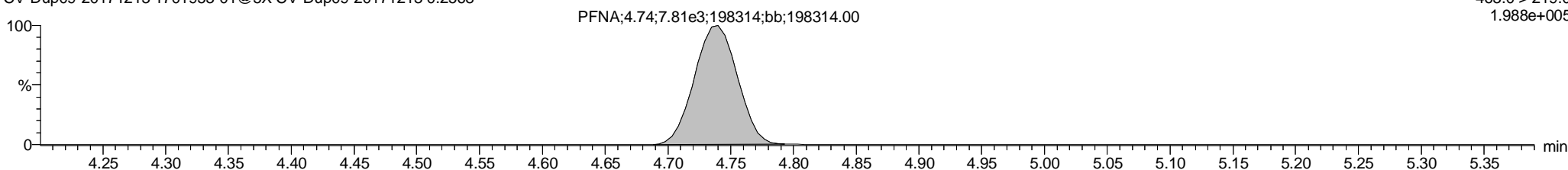
180115M2_97 Smooth(Mn,1x2)
CV-Dup09-20171213 1701953-01@5X CV-Dup09-20171213 0.2568

F24:MRM of 2 channels,ES-
463.0 > 418.8
8.099e+005



180115M2_97 Smooth(Mn,1x2)
CV-Dup09-20171213 1701953-01@5X CV-Dup09-20171213 0.2568

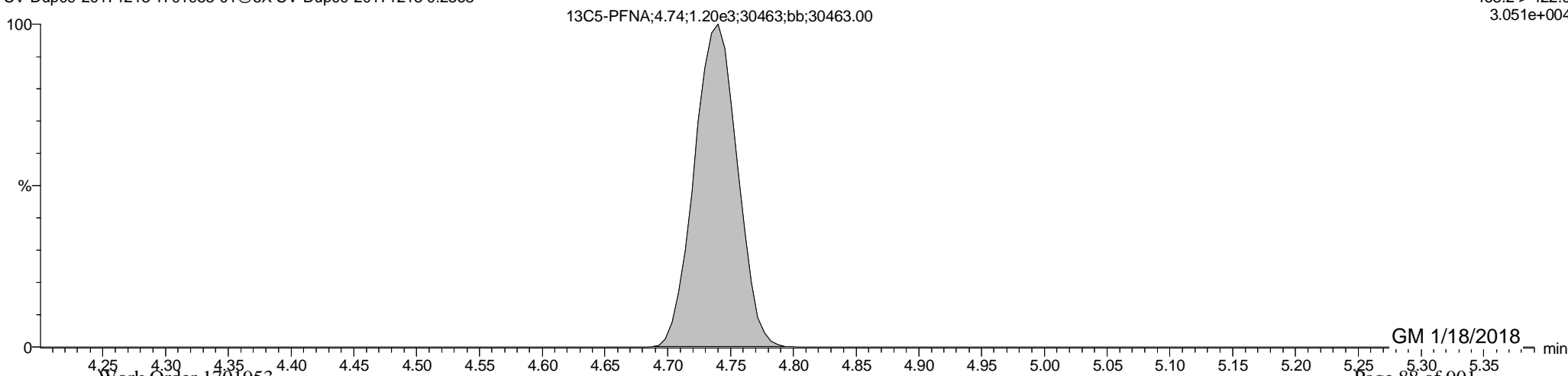
F24:MRM of 2 channels,ES-
463.0 > 219.0
1.988e+005



13C5-PFNA

180115M2_97 Smooth(Mn,1x2)
CV-Dup09-20171213 1701953-01@5X CV-Dup09-20171213 0.2568

F25:MRM of 1 channel,ES-
468.2 > 422.9
3.051e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-97.qld

Last Altered: Thursday, January 18, 2018 10:58:39 Pacific Standard Time

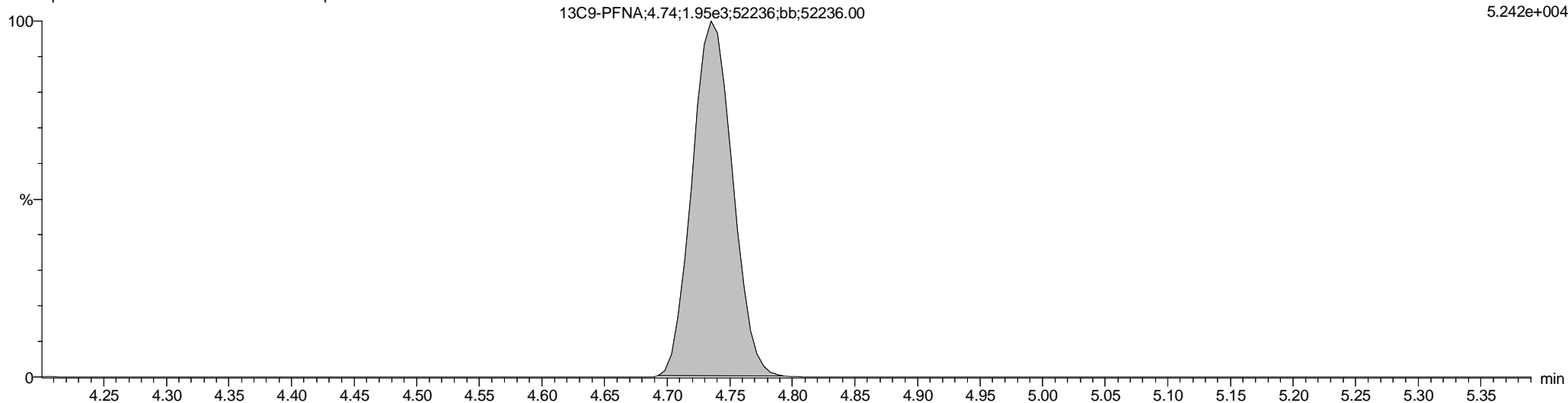
Printed: Thursday, January 18, 2018 11:03:13 Pacific Standard Time

Name: 180115M2_97, Date: 16-Jan-2018, Time: 19:01:07, ID: 1701953-01@5X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

13C9-PFNA

180115M2_97 Smooth(Mn,1x2)
CV-Dup09-20171213 1701953-01@5X CV-Dup09-20171213 0.2568

F26:MRM of 1 channel,ES-
472.2 > 426.9
5.242e+004



Dataset: Z:\Projects\PFAS.PRO\Results\180130M2\180130M2-64.qld

Last Altered: Wednesday, January 31, 2018 14:29:11 Pacific Standard Time

Printed: Wednesday, January 31, 2018 14:31:38 Pacific Standard Time

Method: Z:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 13:32:41

Calibration: Z:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_64, Date: 30-Jan-2018, Time: 23:35:57, ID: 1701953-01@10X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	23 PFUdA	563.0 > 518.9	8.50e3	9.82e2	0.25680		5.36	5.31	108	371.947	
2	49 13C2-PFUdA	565 > 519.8	9.82e2	1.20e3	0.25680	1.047	5.36	5.31	10.2	38.082	78.2
3	64 13C7-PFUdA	570.1 > 524.8	1.20e3	1.20e3	0.25680	1.000	5.36	5.32	12.5	48.676	100.0

Dataset: Z:\Projects\PFAS.PRO\Results\180130M2\180130M2-64.qld

Last Altered: Wednesday, January 31, 2018 14:29:11 Pacific Standard Time
Printed: Wednesday, January 31, 2018 14:31:38 Pacific Standard Time

Method: Z:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 13:32:41

Calibration: Z:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

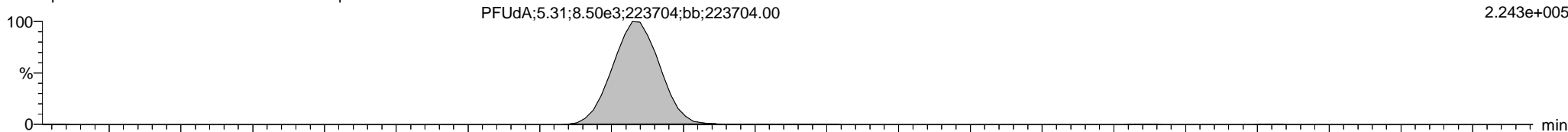
Name: 180130M2_64, Date: 30-Jan-2018, Time: 23:35:57, ID: 1701953-01@10X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

PFUdA

180130M2_64 Smooth(Mn,1x2)

CV-Dup09-20171213 1701953-01@10X CV-Dup09-20171213 0.2568

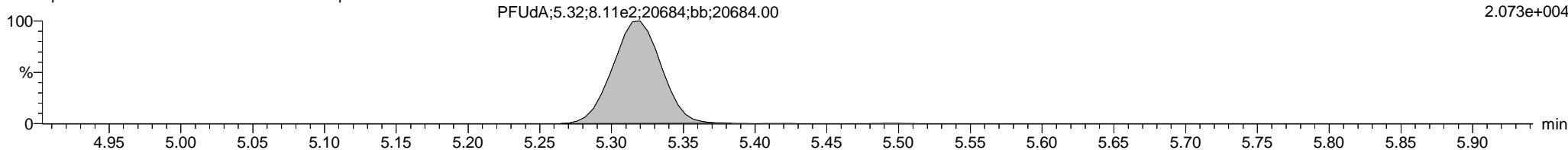
F45:MRM of 2 channels,ES-
563.0 > 518.9
2.243e+005



180130M2_64 Smooth(Mn,1x2)

CV-Dup09-20171213 1701953-01@10X CV-Dup09-20171213 0.2568

F45:MRM of 2 channels,ES-
563.0 > 269
2.073e+004

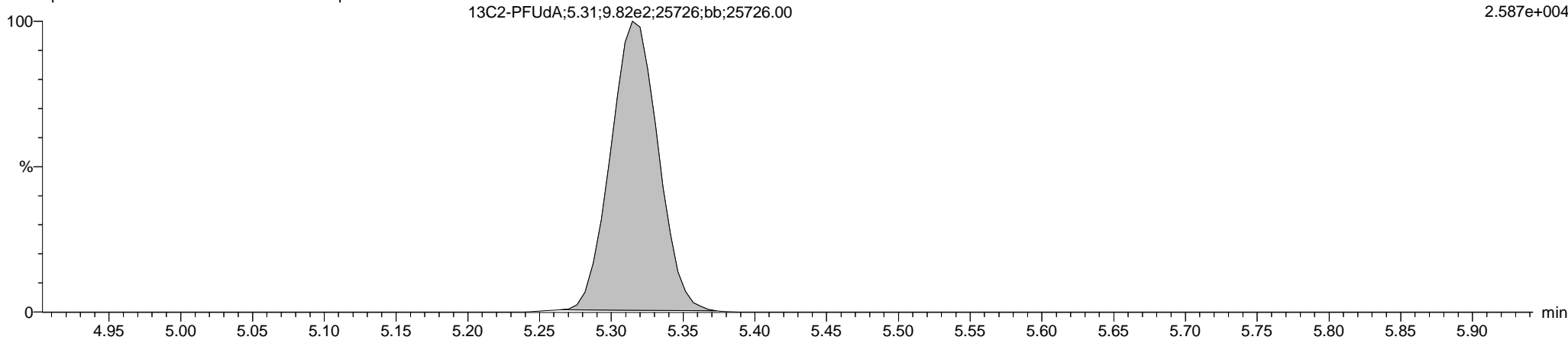


13C2-PFUdA

180130M2_64 Smooth(Mn,1x2)

CV-Dup09-20171213 1701953-01@10X CV-Dup09-20171213 0.2568

F46:MRM of 1 channel,ES-
565 > 519.8
2.587e+004



Dataset: Z:\Projects\PFAS.PRO\Results\180130M2\180130M2-64.qld

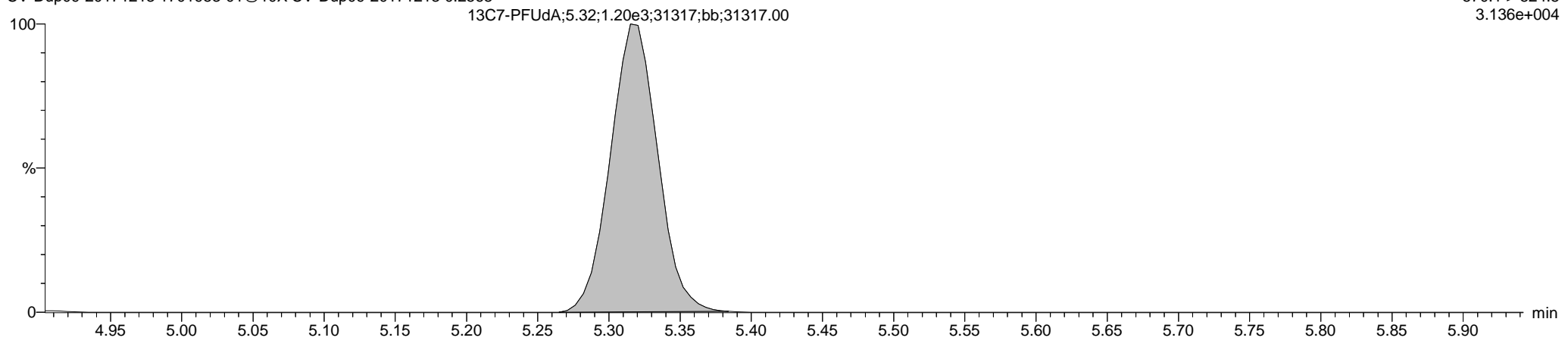
Last Altered: Wednesday, January 31, 2018 14:29:11 Pacific Standard Time
Printed: Wednesday, January 31, 2018 14:31:38 Pacific Standard Time

Name: 180130M2_64, Date: 30-Jan-2018, Time: 23:35:57, ID: 1701953-01@10X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

13C7-PFUdA

180130M2_64 Smooth(Mn,1x2)
CV-Dup09-20171213 1701953-01@10X CV-Dup09-20171213 0.2568

F48:MRM of 1 channel,ES-
570.1 > 524.8
3.136e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-49.qld

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

Printed: Tuesday, January 16, 2018 13:12:08 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_49, Date: 16-Jan-2018, Time: 09:24:07, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		8.54e2	0.236		2.87				
2	4 PFHxA	313.2 > 268.9		2.09e3	0.236		3.36				
3	5 PFHpA	363.0 > 318.9		5.35e3	0.236		4.00				
4	6 L-PFHxS	398.9 > 79.6		6.92e2	0.236		4.14				
5	9 L-PFOA	413 > 368.7		6.30e3	0.236		4.50				
6	12 PFNA	463.0 > 418.8		5.42e3	0.236		4.94				
7	14 L-PFOS	499 > 79.9		1.77e3	0.236		5.02				
8	16 PFDA	513 > 468.8		5.07e3	0.236		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.17e3	0.236		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.43e3	0.236		5.60				
11	20 PFUdA	563.0 > 518.9		5.85e3	0.236		5.62				
12	22 PFDoA	612.9 > 569.0		3.47e3	0.236		5.91				

Use only

Dataset: U:\Q4.PRO\results\180115M2\180115M2-49.qld

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

Printed: Tuesday, January 16, 2018 16:00:42 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_49, Date: 16-Jan-2018, Time: 09:24:07, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.47e3	0.236		6.15				
2	25 PFTeDA	712.9 > 668.8		2.31e3	0.236		6.35				
3	33 13C3-PFBS	302. > 98.8	8.54e2	8.33e3	0.236	0.095	2.87	2.73	1.28	57.0844	107.9
4	34 13C2-PFHxA	315 > 269.8	2.09e3	8.33e3	0.236	0.636	3.36	3.22	3.13	20.8526	98.5
5	35 13C4-PFHpA	367.2 > 321.8	5.35e3	8.33e3	0.236	0.621	4.00	3.84	8.03	54.7591	103.5
6	36 18O2-PFHxS	403.0 > 102.6	6.92e2	2.11e3	0.236	0.336	4.14	3.98	4.09	51.5654	97.5
7	37 13C2-6:2 FTS	429.1 > 408.9	1.19e3	7.75e3	0.236	0.192	4.46	4.29	1.92	42.1344	79.6
8	38 13C2-PFOA	414.9 > 369.7	6.30e3	7.75e3	0.236	1.001	4.50	4.35	10.2	42.9369	81.1
9	39 13C5-PFNA	468.2 > 422.9	5.42e3	7.42e3	0.236	0.811	4.94	4.78	9.14	47.7144	90.2
10	40 13C8-PFOA	506.1 > 77.7	8.21e2	7.17e3	0.236	0.196	5.00	4.84	1.43	30.8546	58.3
11	41 13C8-PFOS	507.0 > 79.9	1.77e3	2.07e3	0.236	0.862	5.02	4.86	10.7	52.5506	99.3
12	42 13C2-PFDA	515.1 > 469.9	5.07e3	5.39e3	0.236	0.996	5.31	5.15	11.8	49.9980	94.5
13	43 13C2-8:2 FTS	529.1 > 508.7	7.78e2	8.33e3	0.236	0.103	5.28	5.11	1.17	48.0007	90.7
14	44 d3-N-MeFOSAA	573.3 > 419	2.17e3	7.17e3	0.236	0.340	5.45	5.29	3.78	47.1169	89.0
15	45 d5-N-EtFOSAA	589.3 > 419	2.43e3	7.17e3	0.236	0.377	5.60	5.45	4.24	47.6357	90.0
16	46 13C2-PFUdA	565 > 519.8	5.85e3	7.17e3	0.236	0.944	5.62	5.47	10.2	45.7481	86.5
17	47 13C2-PFDoA	615.0 > 569.7	3.47e3	7.17e3	0.236	0.726	5.91	5.75	6.06	35.3223	66.8
18	49 13C2-PFTeDA	714.8 > 669.6	2.31e3	7.17e3	0.236	0.371	6.35	6.20	4.03	45.9797	86.9
19	55 13C5-PFHxA	318 > 272.9	8.33e3	8.33e3	0.236	1.000	3.36	3.22	12.5	52.9123	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.11e3	2.11e3	0.236	1.000	4.14	3.98	12.5	52.9123	100.0
21	57 13C8-PFOA	421.3 > 376	7.75e3	7.75e3	0.236	1.000	4.50	4.35	12.5	52.9123	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.42e3	7.42e3	0.236	1.000	4.94	4.78	12.5	52.9123	100.0
23	59 13C4-PFOS	503 > 79.9	2.07e3	2.07e3	0.236	1.000	5.02	4.86	12.5	52.9123	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.39e3	5.39e3	0.236	1.000	5.31	5.15	12.5	52.9123	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.17e3	7.17e3	0.236	1.000	5.62	5.47	12.5	52.9123	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	6.92e2	0.236		4.14		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	6.30e3	0.236		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	1.77e3	0.236		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.17e3	0.236		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.43e3	0.236		5.61		0.000		

Use only

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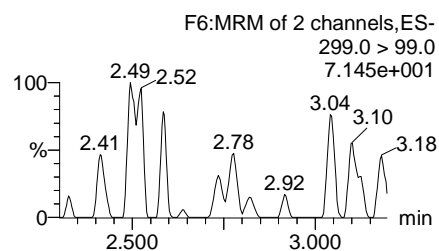
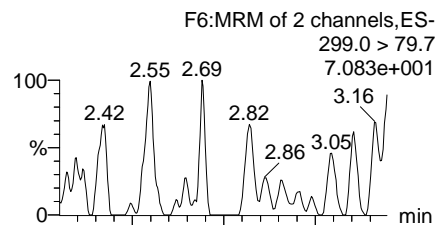
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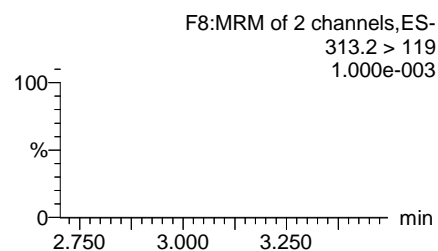
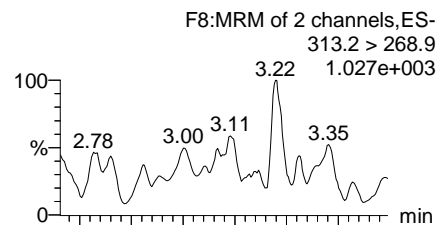
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Name: 180115M2_49, Date: 16-Jan-2018, Time: 09:24:07, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

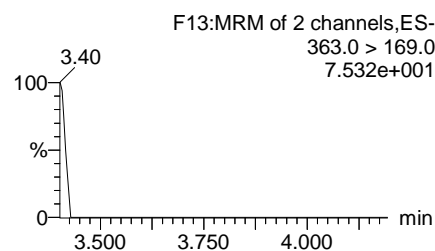
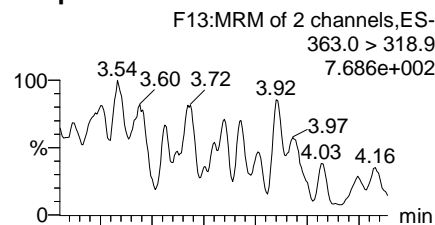
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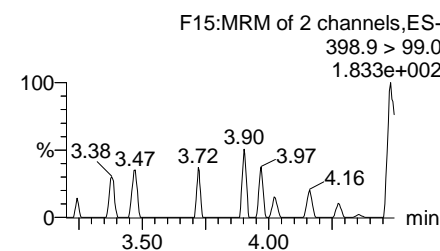
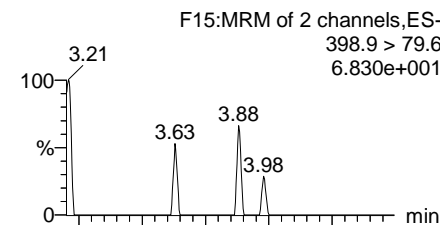
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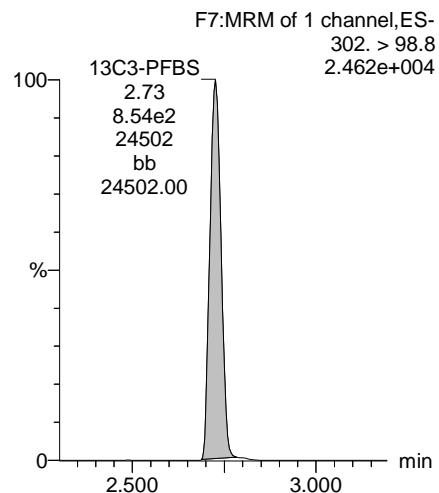
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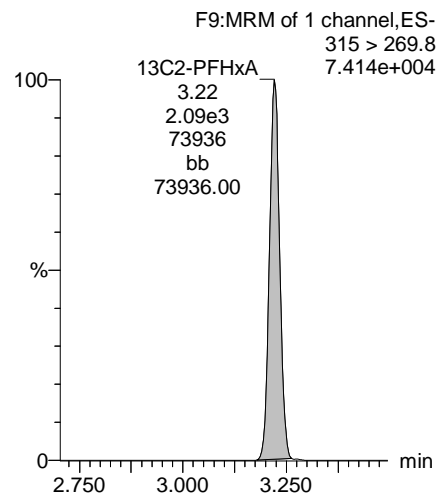
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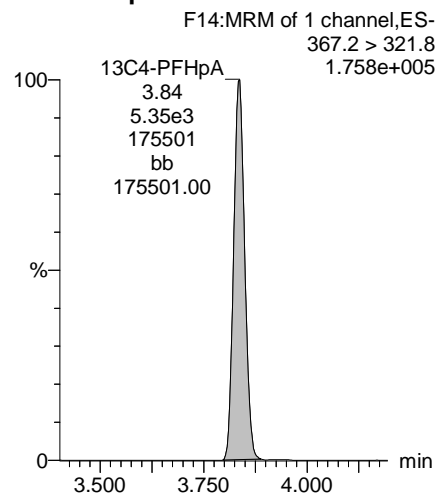
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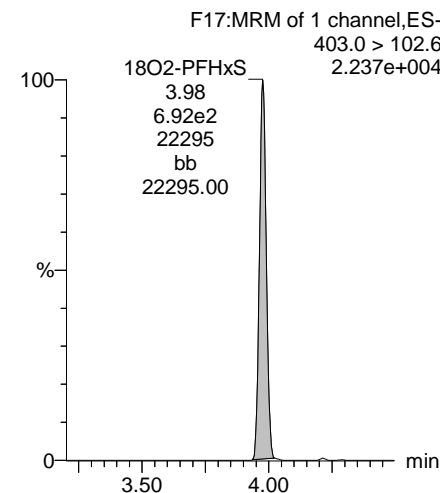
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13C4-PFHpA



18O2-PFHxS

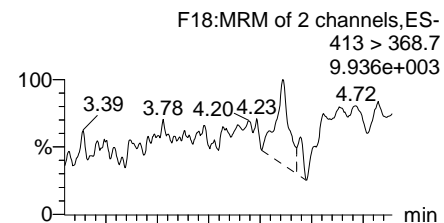


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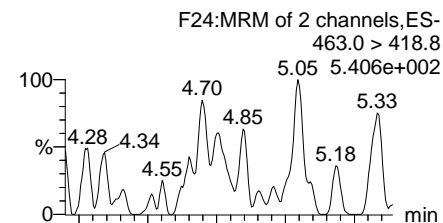
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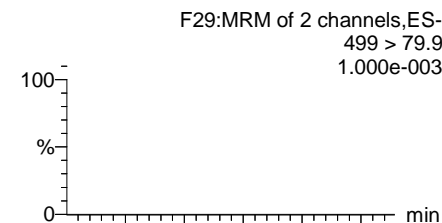
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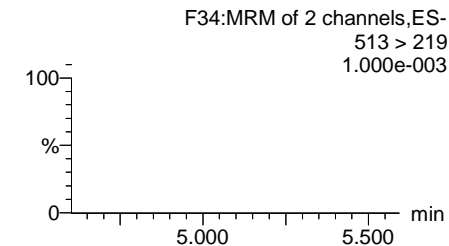
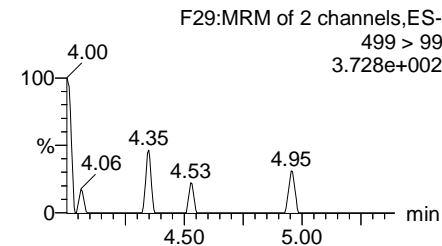
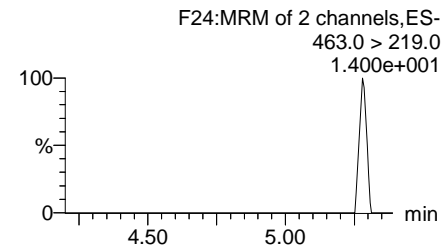
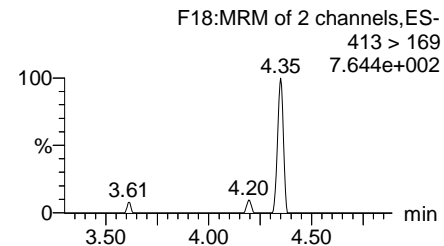
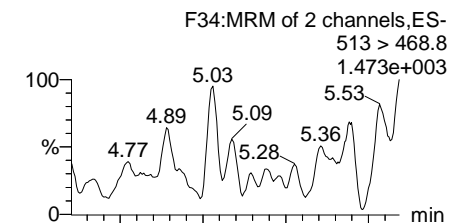
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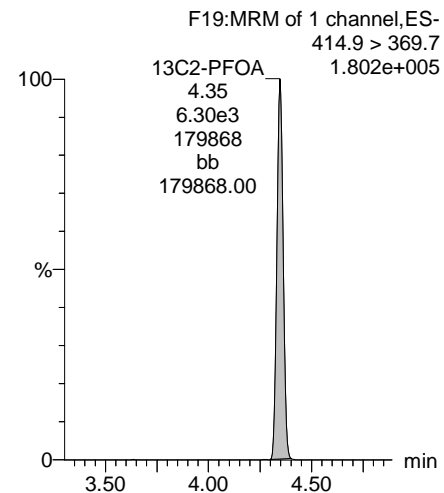
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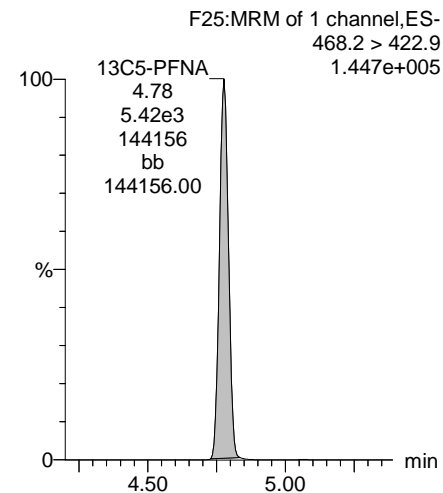
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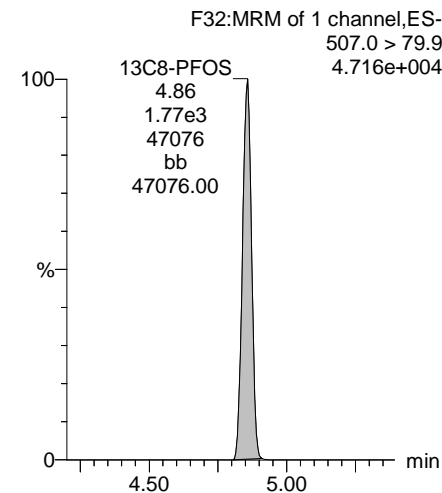
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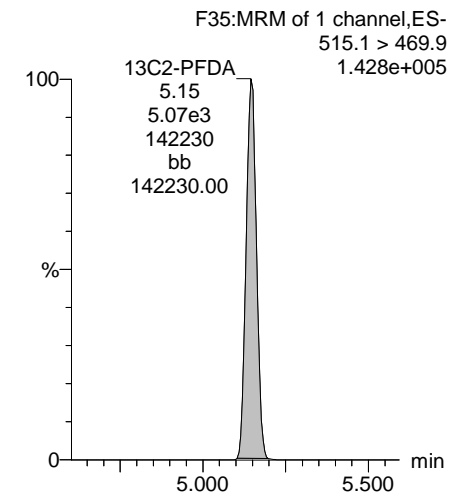
13C5-PFNA



13C8-PFOS



13C2-PFDA



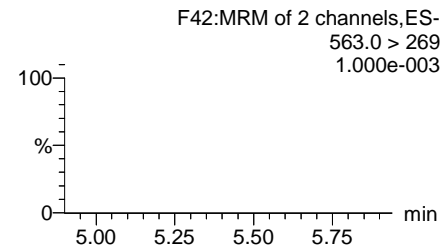
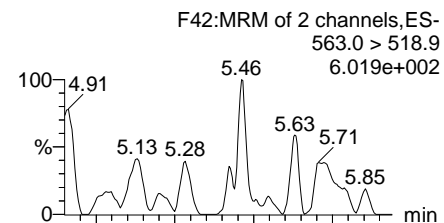
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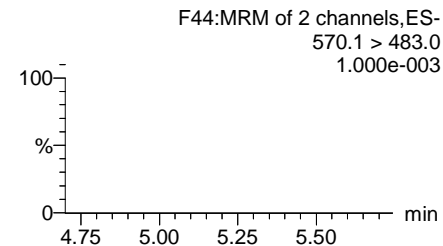
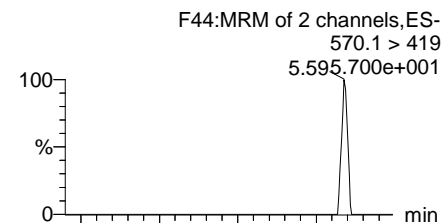
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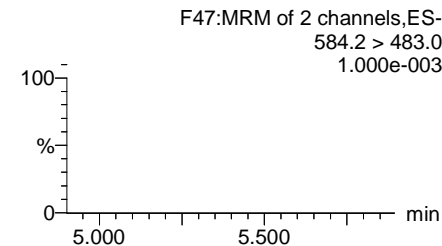
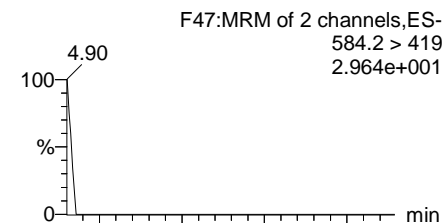
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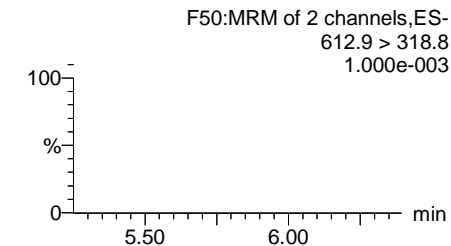
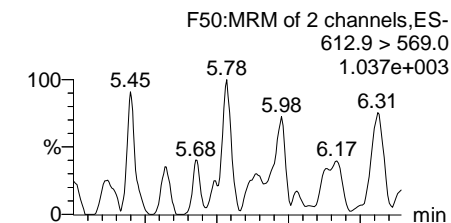
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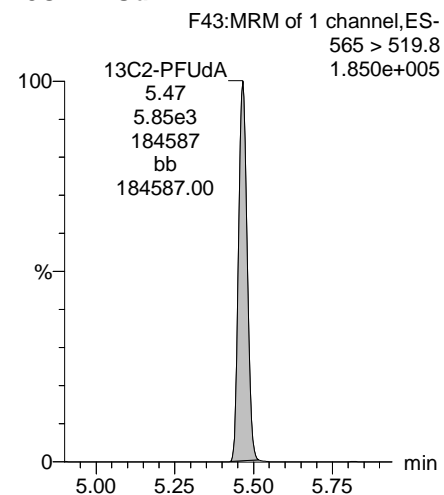
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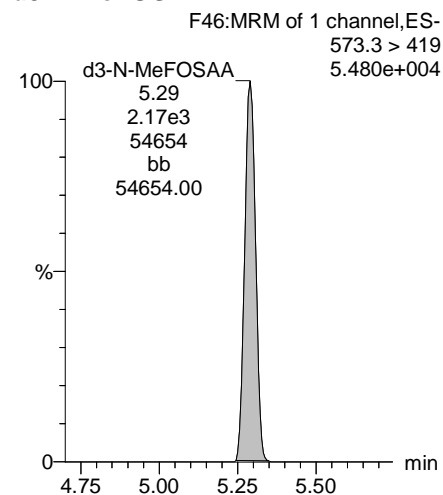
PFDaA



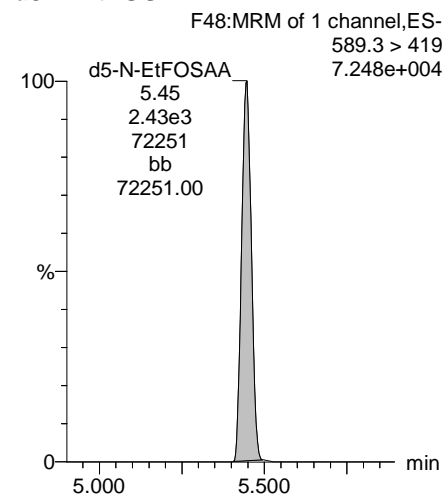
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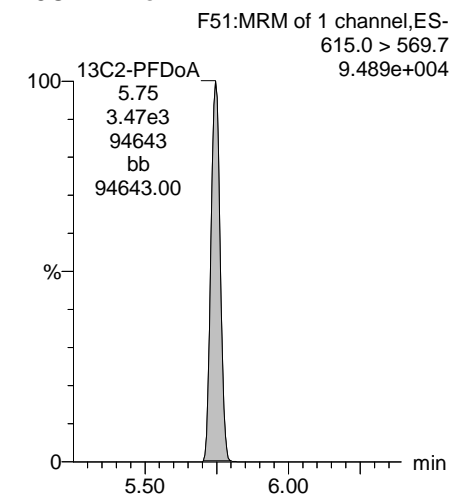
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d5-N-EtFOSAA



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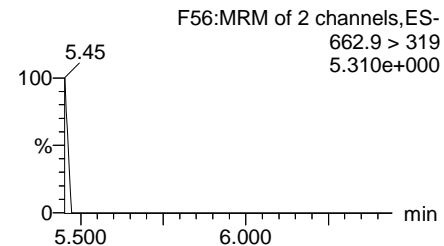
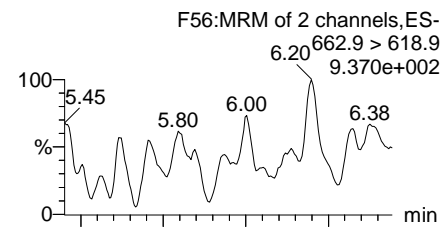


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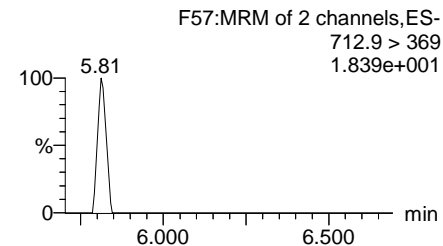
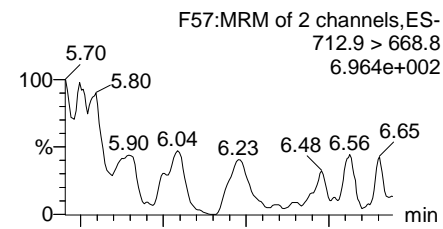
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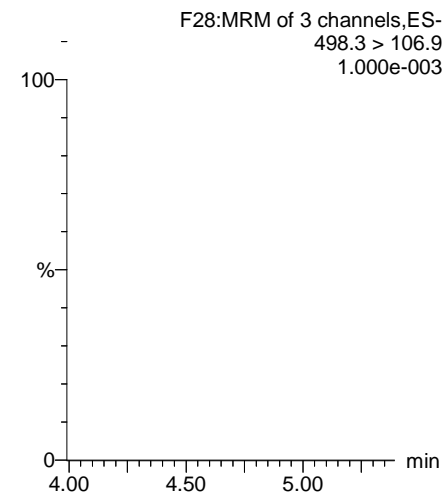
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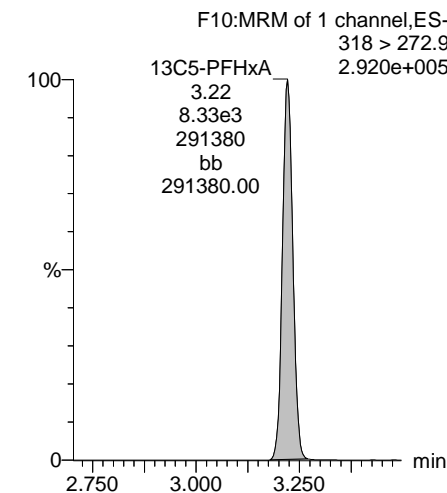
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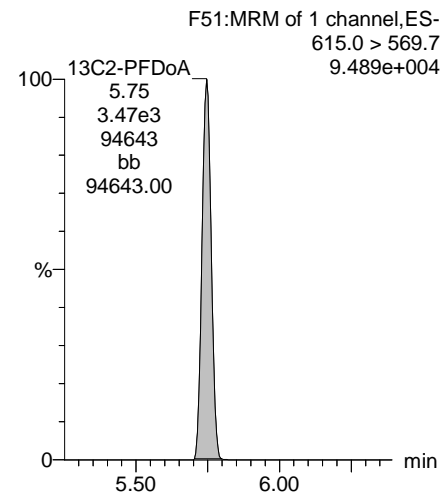
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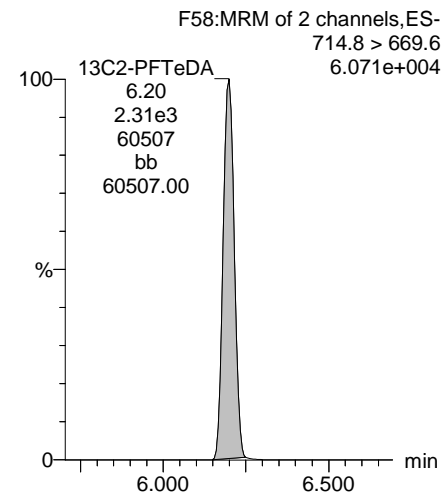
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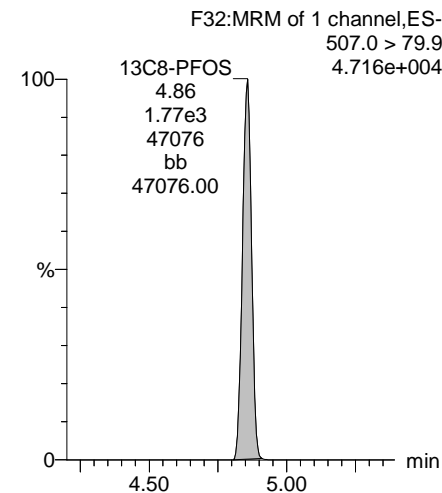
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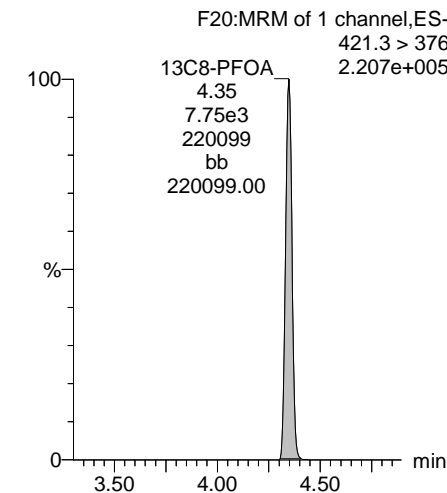
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

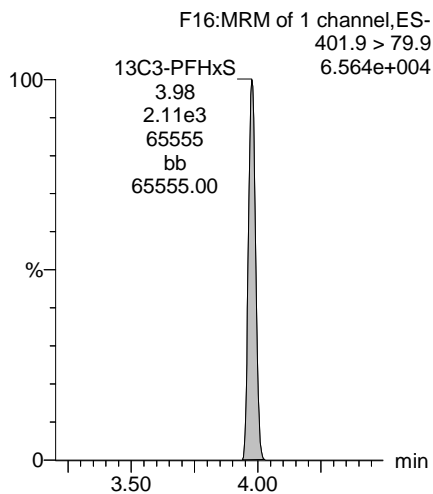


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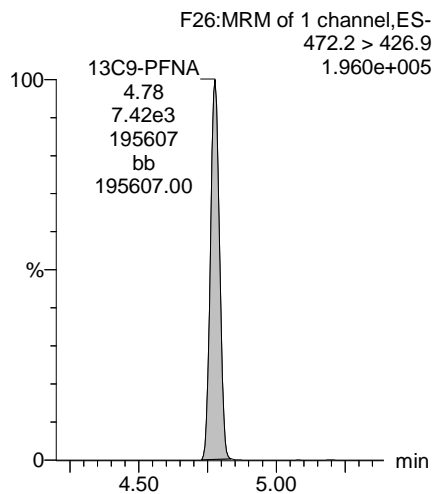
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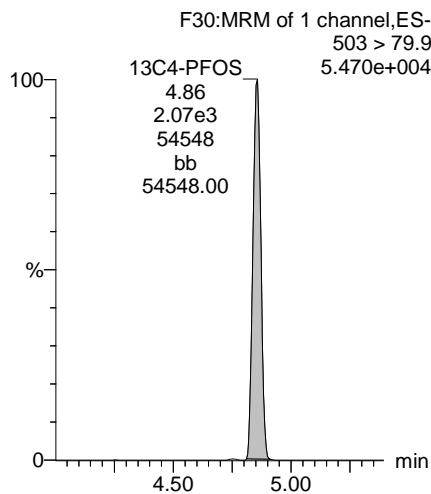
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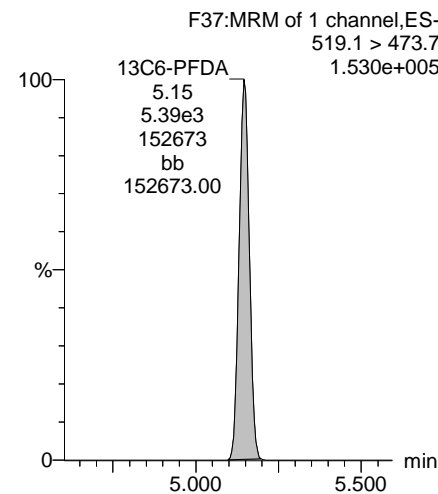
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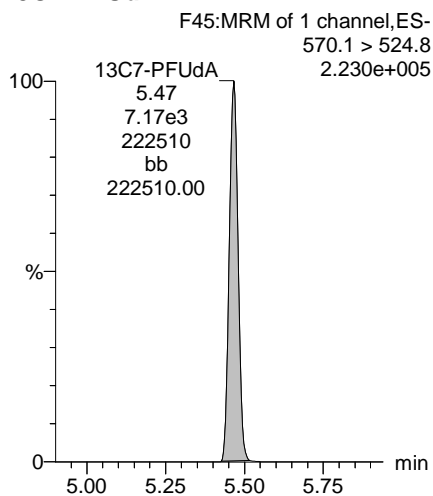
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-103.qld

Last Altered: Tuesday, January 30, 2018 11:36:01 Pacific Standard Time

Printed: Tuesday, January 30, 2018 11:36:54 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_103, Date: 16-Jan-2018, Time: 20:09:49, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

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1	3	PFBS	299.0 > 79.7		9.92e2	0.236		2.87				
2	4	PFHxA	313.2 > 268.9		2.03e3	0.236		3.36				
3	5	PFHpA	363.0 > 318.9		5.03e3	0.236		4.00				
4	6	L-PFHxS	398.9 > 79.6		7.07e2	0.236		3.94				
5	9	L-PFOA	413 > 368.7		6.21e3	0.236		4.34				
6	12	PFNA	463.0 > 418.8		5.57e3	0.236		4.94				
7	14	L-PFOS	499 > 79.9	1.02e1	1.81e3	0.236		4.72	4.72	0.0701	0.4370	
8	16	PFDA	513 > 468.8		5.08e3	0.236		5.31				
9	18	N-MeFOSAA	570.1 > 419		2.56e3	0.236		5.45				
10	19	N-EtFOSAA	584.2 > 419		2.78e3	0.236		5.60				
11	20	PFUdA	563.0 > 518.9		5.03e3	0.236		5.62				
12	22	PFDoA	612.9 > 569.0		3.21e3	0.236		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-103.qld

Last Altered: Tuesday, January 30, 2018 11:36:01 Pacific Standard Time

Printed: Tuesday, January 30, 2018 11:37:05 Pacific Standard Time

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

Name: 180115M2_103, Date: 16-Jan-2018, Time: 20:09:49, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	3.21e3	0.236		6.15				
2	25	PFTeDA	712.9 > 668.8	1.96e3	0.236		6.35				
3	33	13C3-PFBS	302. > 98.8	9.92e2	0.236	0.095	2.87	2.67	1.51	67.1629	126.9
4	34	13C2-PFHxA	315 > 269.8	2.03e3	0.236	0.636	3.36	3.16	3.08	20.4684	96.7
5	35	13C4-PFHpA	367.2 > 321.8	5.03e3	0.236	0.621	4.00	3.78	7.64	52.1052	98.5
6	36	18O2-PFHxS	403.0 > 102.6	7.07e2	0.236	0.336	4.14	3.93	3.69	46.4553	87.8
7	37	13C2-6:2 FTS	429.1 > 408.9	1.59e3	0.236	0.192	4.46	4.24	2.45	53.9268	101.9
8	38	13C2-PFOA	414.9 > 369.7	6.21e3	0.236	1.001	4.50	4.30	9.58	40.5043	76.5
9	39	13C5-PFNA	468.2 > 422.9	5.57e3	0.236	0.811	4.94	4.73	9.68	50.5108	95.5
10	40	13C8-PFOA	506.1 > 77.7	1.19e3	0.236	0.196	5.00	4.79	2.46	52.9184	100.0
11	41	13C8-PFOS	507.0 > 79.9	1.81e3	0.236	0.862	5.02	4.81	11.3	55.6675	105.2
12	42	13C2-PFDA	515.1 > 469.9	5.08e3	0.236	0.996	5.31	5.10	15.4	65.5089	123.8
13	43	13C2-8:2 FTS	529.1 > 508.7	5.72e2	0.236	0.103	5.28	5.08	0.868	35.7022	67.5
14	44	d3-N-MeFOSAA	573.3 > 419	2.56e3	0.236	0.340	5.45	5.25	5.27	65.5640	123.9
15	45	d5-N-EtFOSAA	589.3 > 419	2.78e3	0.236	0.377	5.60	5.41	5.72	64.3130	121.5
16	46	13C2-PFUdA	565 > 519.8	5.03e3	0.236	0.944	5.62	5.43	10.4	46.4861	87.9
17	47	13C2-PFDoA	615.0 > 569.7	3.21e3	0.236	0.726	5.91	5.71	6.61	38.5498	72.9
18	49	13C2-PFTeDA	714.8 > 669.6	1.96e3	0.236	0.371	6.35	6.17	4.04	46.0414	87.0
19	55	13C5-PFHxA	318 > 272.9	8.23e3	0.236	1.000	3.36	3.16	12.5	52.9123	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.40e3	0.236	1.000	4.14	3.93	12.5	52.9123	100.0
21	57	13C8-PFOA	421.3 > 376	8.10e3	0.236	1.000	4.50	4.30	12.5	52.9123	100.0
22	58	13C9-PFNA	472.2 > 426.9	7.20e3	0.236	1.000	4.94	4.73	12.5	52.9123	100.0
23	59	13C4-PFOS	503 > 79.9	2.00e3	0.236	1.000	5.02	4.81	12.5	52.9123	100.0
24	60	13C6-PFDA	519.1 > 473.7	4.12e3	0.236	1.000	5.31	5.10	12.5	52.9123	100.0
25	61	13C7-PFUdA	570.1 > 524.8	6.07e3	0.236	1.000	5.62	5.43	12.5	52.9123	100.0
26	62	Total PFHxS	398.9 > 79.6	0.00e0	0.236		4.14		0.000		
27	63	Total PFOA	413 > 368.7	0.00e0	0.236		4.51		0.000		
28	64	Total PFOS	499 > 79.9	1.02e1	0.236		5.02		0.0701	0.4370	
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	0.236		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	0.236		5.61		0.000		

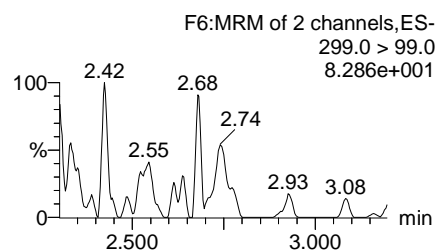
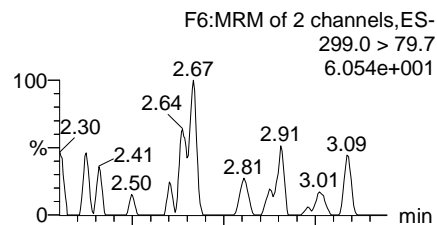
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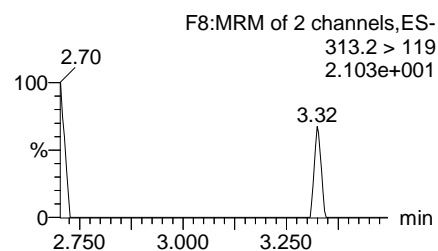
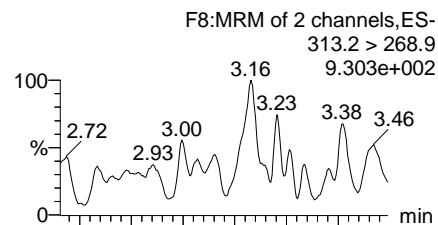
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Calibration: U:\Q4.pro\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_103, Date: 16-Jan-2018, Time: 20:09:49, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

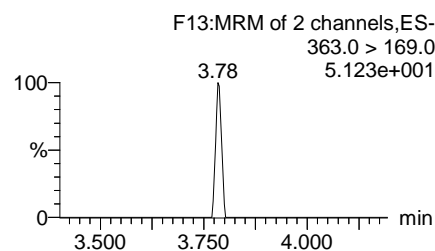
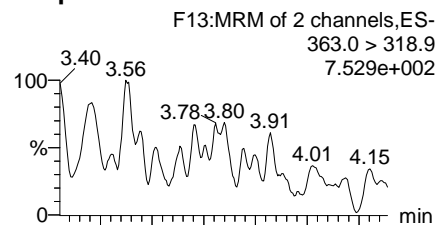
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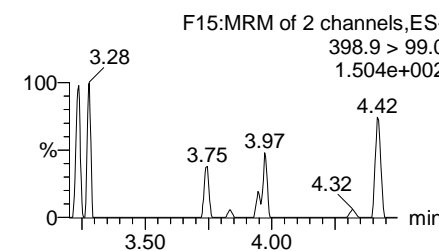
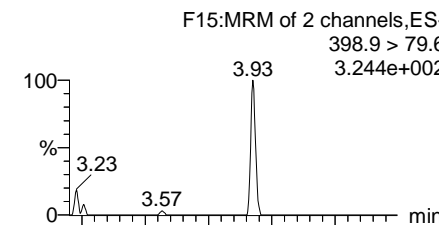
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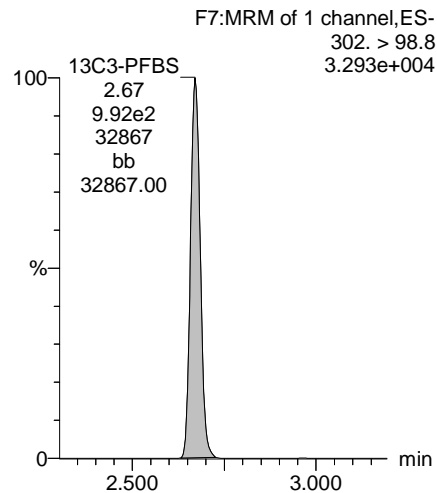
PFHpA



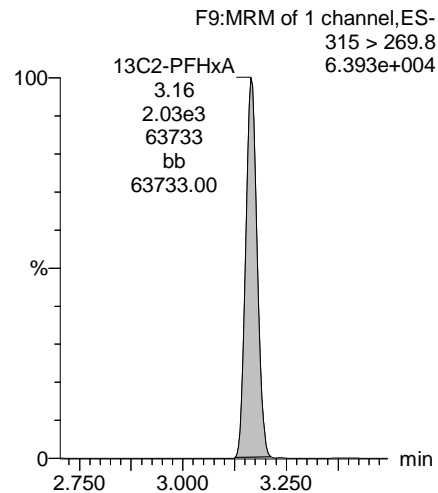
Total PFHxS



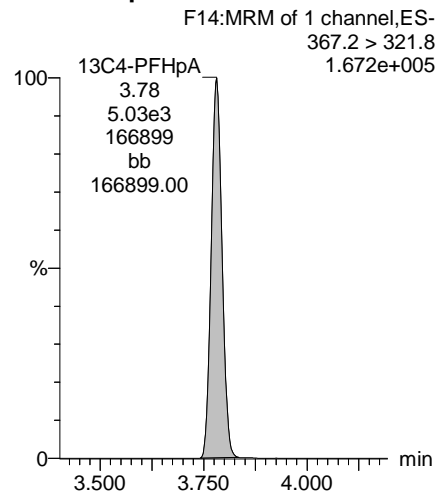
13C3-PFBS



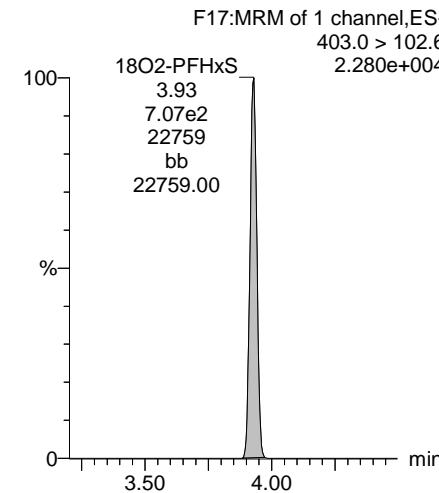
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

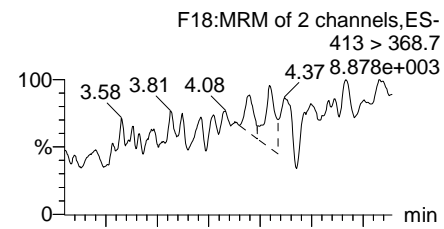


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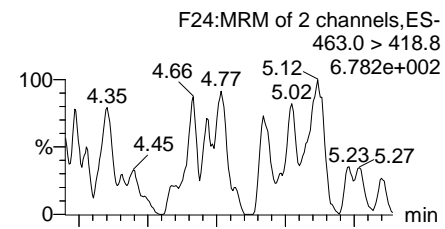
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Name: 180115M2_103, Date: 16-Jan-2018, Time: 20:09:49, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

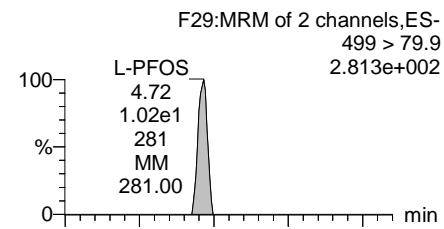
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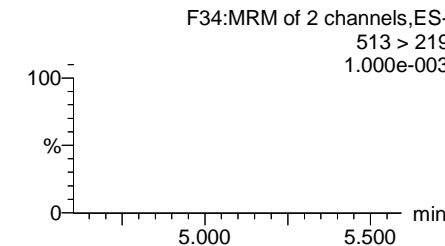
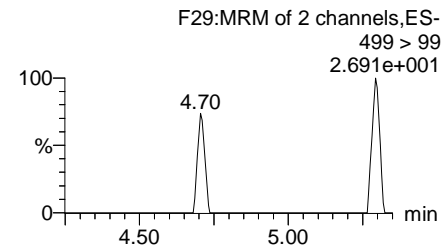
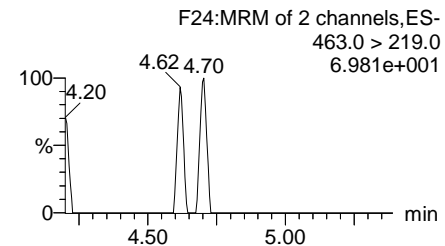
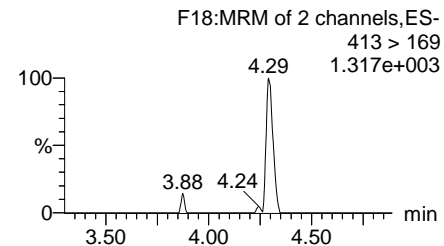
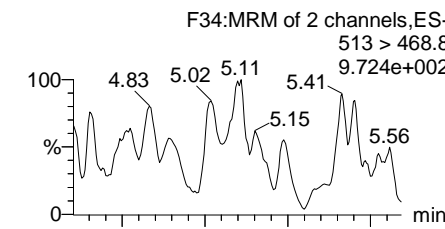
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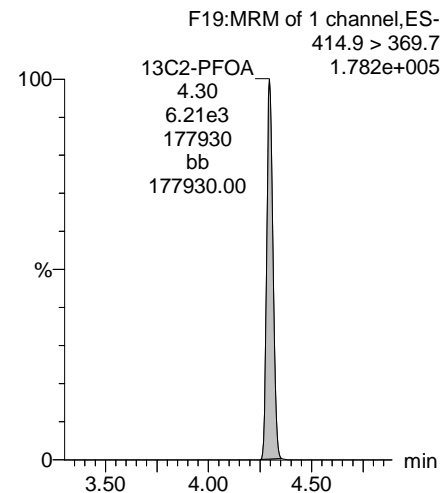
Total PFOS



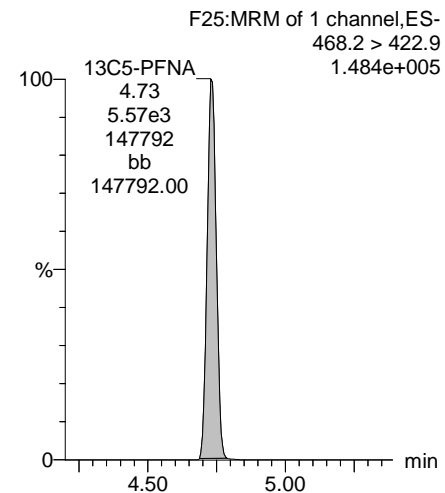
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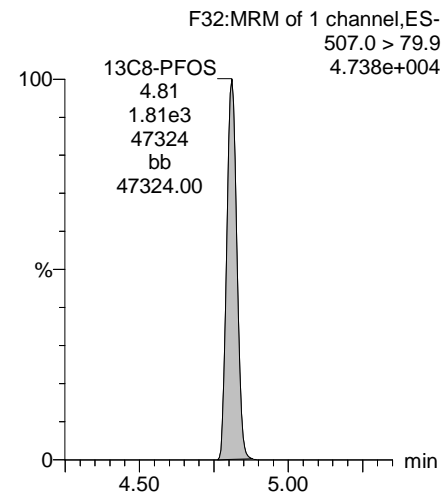
13C2-PFOA



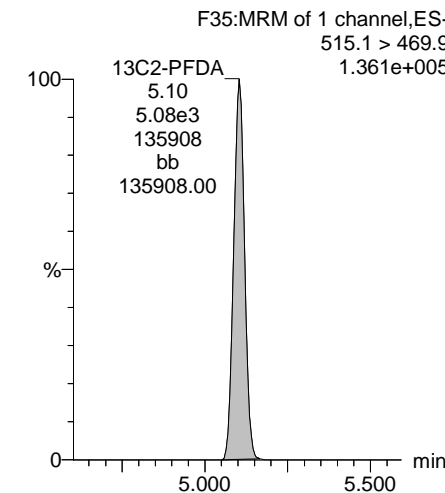
13C5-PFNA



13C8-PFOS



13C2-PFDA

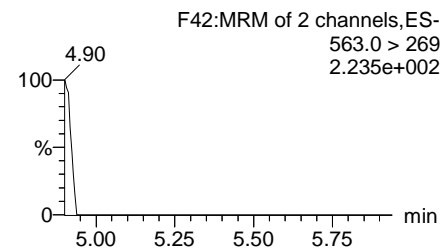
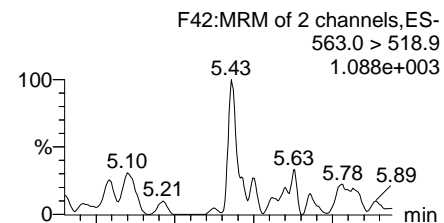


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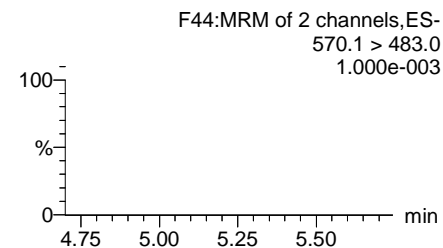
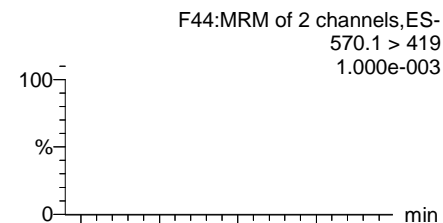
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Name: 180115M2_103, Date: 16-Jan-2018, Time: 20:09:49, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

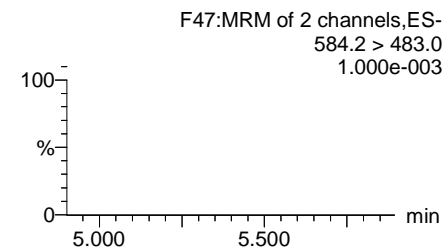
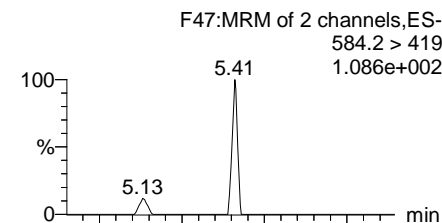
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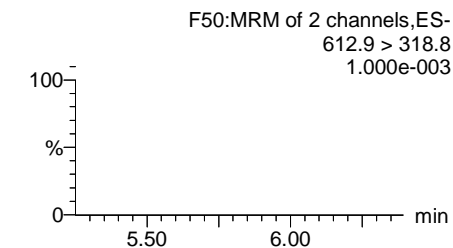
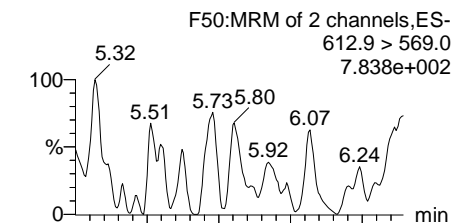
N-MeFOSAA



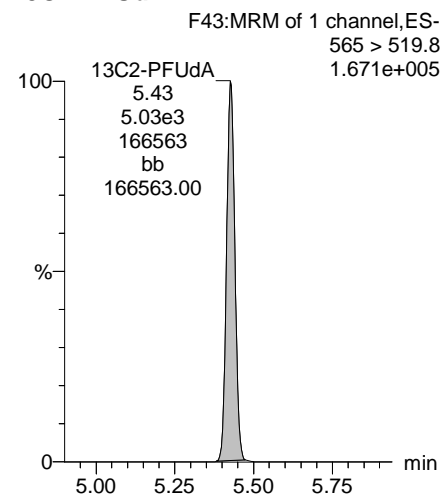
N-EtFOSAA



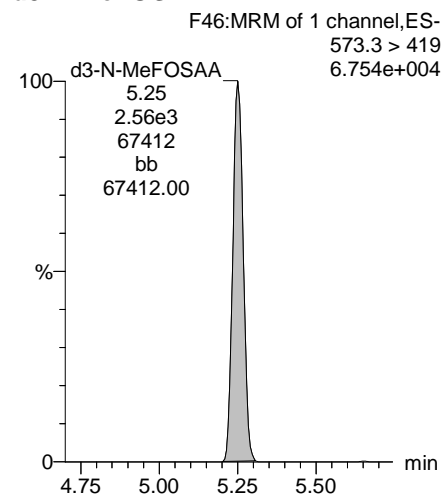
PFDoA



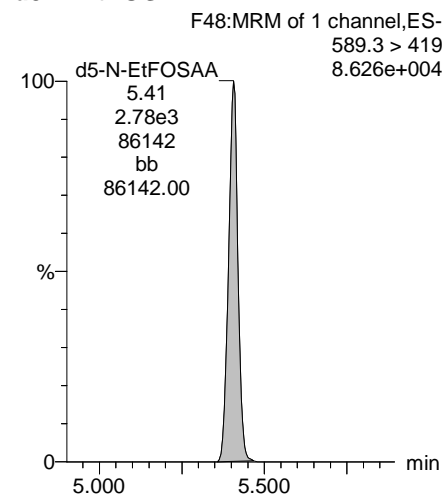
13C2-PFUdA



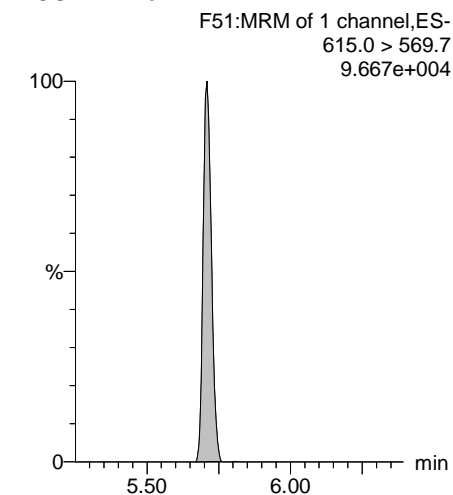
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



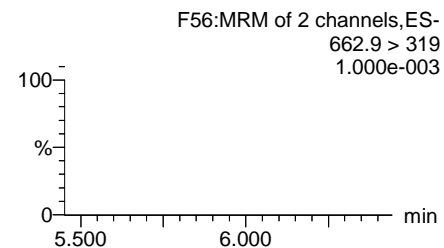
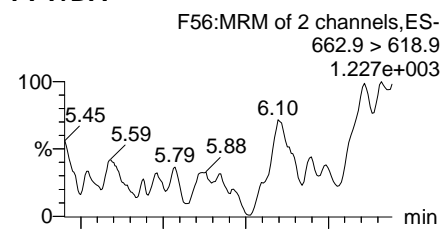
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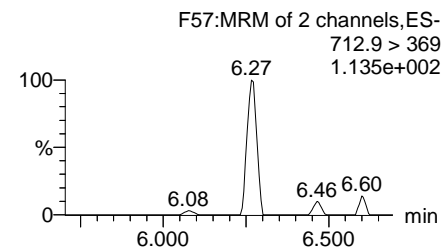
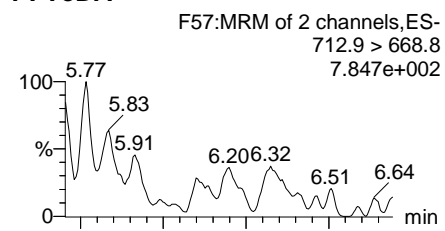
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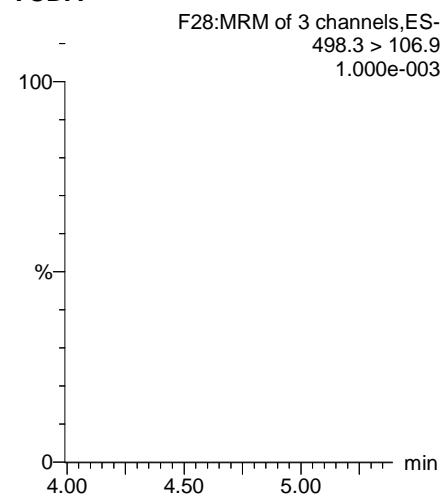
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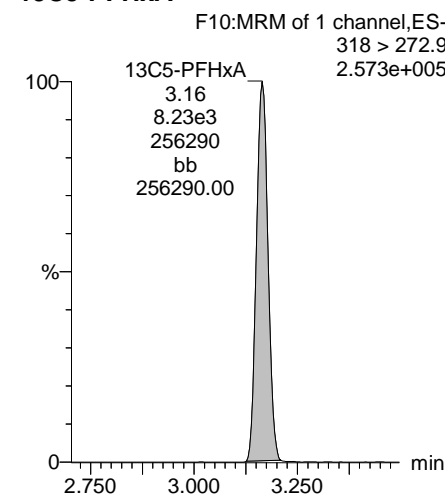
PFTeDA



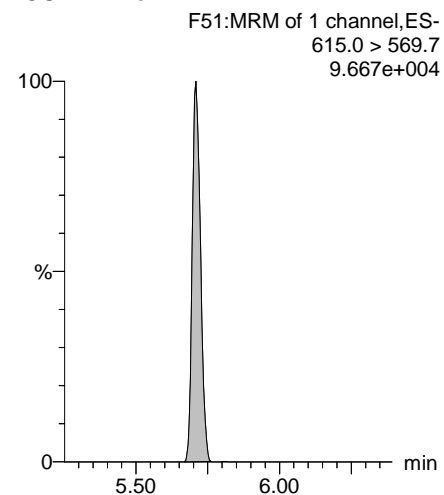
TCDA



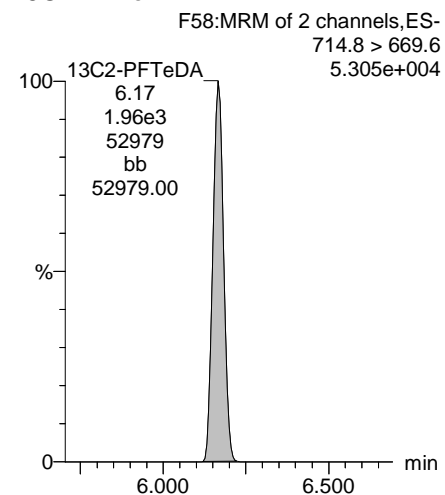
13C5-PFHxA



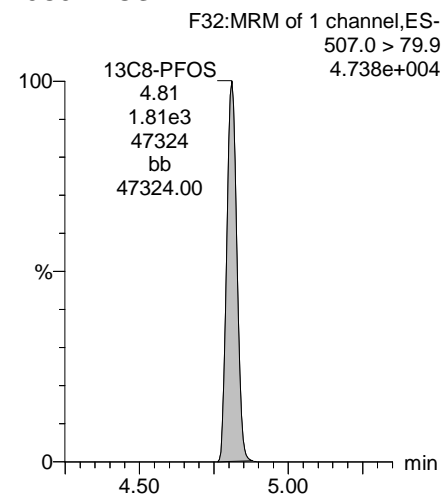
13C2-PFDoA



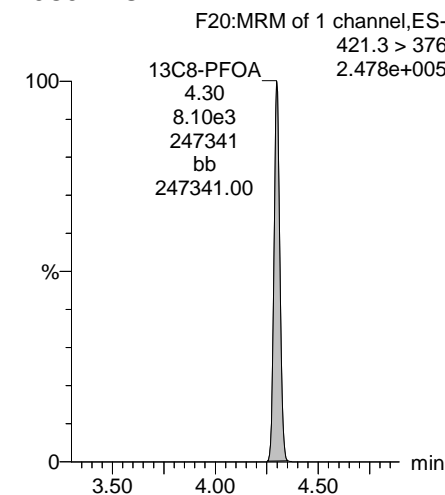
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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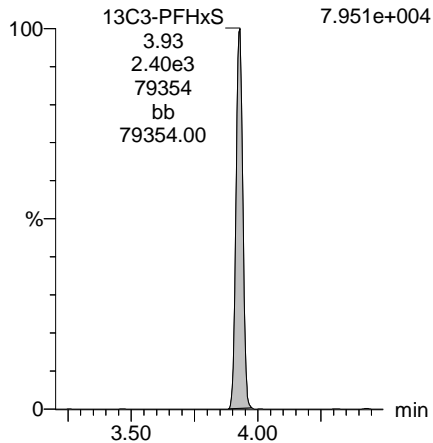
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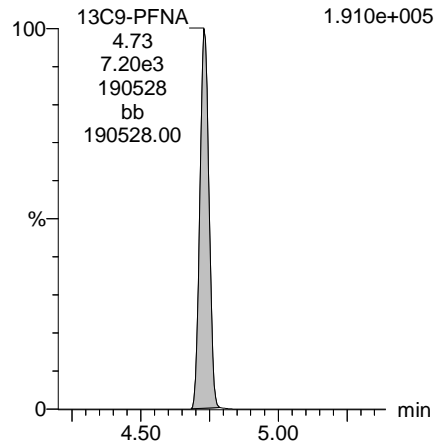
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.951e+004



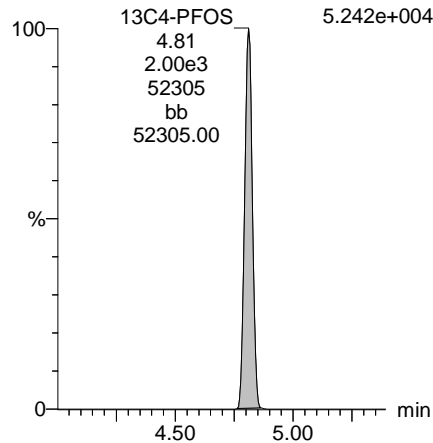
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
1.910e+005



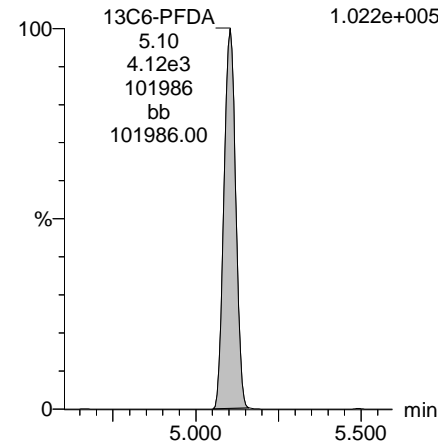
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
5.242e+004



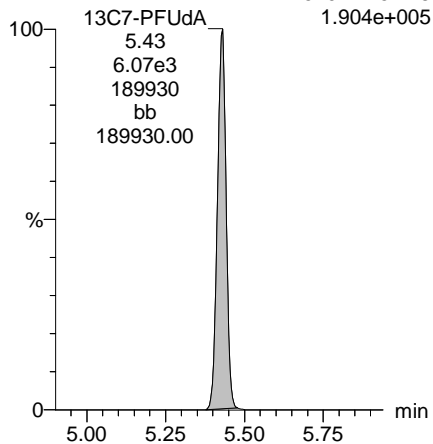
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.022e+005



13C7-PFUDa

F45:MRM of 1 channel,ES-
570.1 > 524.8
1.904e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-50.qld

Last Altered: Tuesday, January 16, 2018 13:24:34 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:24:54 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

*See dilution.

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_50, Date: 16-Jan-2018, Time: 09:42:12, ID: 1701953-03 SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		8.73e2	0.243		2.87				
2	4 PFHxA	313.2 > 268.9	1.44e3	2.39e3	0.243		3.36	3.22	3.01	7.0225	
3	5 PFHpA	363.0 > 318.9	2.32e3	5.78e3	0.243		4.00	3.84	5.03	14.0028	
4	6 L-PFHxS	398.9 > 79.6	2.05e1	6.90e2	0.243		4.14	3.98	0.371	0.6487	
5	9 L-PFOA	413 > 368.7	4.37e3	6.80e3	0.243		4.50	4.35	8.02	28.1950	
6	12 PFNA	463.0 > 418.8	8.46e4	5.55e3	0.243		4.94	4.78	190	519.6046	E*
7	14 L-PFOS	499 > 79.9	2.01e2	2.19e3	0.243		5.02	4.86	1.15	4.4267	
8	16 PFDA	513 > 468.8	1.50e3	6.36e3	0.243		5.31	5.15	2.95	8.4550	
9	18 N-MeFOSAA	570.1 > 419		2.49e3	0.243		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.86e3	0.243		5.60				
11	20 PFUdA	563.0 > 518.9	3.54e4	6.49e3	0.243		5.62	5.47	68.2		See ug/L
12	22 PFDaA	612.9 > 569.0		5.44e3	0.243		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-50.qld

Last Altered: Tuesday, January 16, 2018 13:24:34 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:01:35 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_50, Date: 16-Jan-2018, Time: 09:42:12, ID: 1701953-03 SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		5.44e3	0.243		6.15				
2	25 PFTeDA	712.9 > 668.8		3.02e3	0.243		6.35				
3	33 13C3-PFBS	302. > 98.8	8.73e2	8.98e3	0.243	0.095	2.87	2.72	1.22	52.7112	102.4
4	34 13C2-PFHxA	315 > 269.8	2.39e3	8.98e3	0.243	0.636	3.36	3.22	3.33	21.5567	104.7
5	35 13C4-PFHpA	367.2 > 321.8	5.78e3	8.98e3	0.243	0.621	4.00	3.84	8.05	53.3657	103.7
6	36 18O2-PFHxS	403.0 > 102.6	6.90e2	1.95e3	0.243	0.336	4.14	3.98	4.42	54.1373	105.2
7	37 13C2-6:2 FTS	429.1 > 408.9	1.39e3	7.51e3	0.243	0.192	4.46	4.30	2.32	49.6500	96.5
8	38 13C2-PFOA	414.9 > 369.7	6.80e3	7.51e3	0.243	1.001	4.50	4.35	11.3	46.5692	90.5
9	39 13C5-PFNA	468.2 > 422.9	5.55e3	6.92e3	0.243	0.811	4.94	4.78	10.0	50.9664	99.0
10	40 13C8-PFOA	506.1 > 77.7	1.12e3	8.67e3	0.243	0.196	5.00	4.84	1.61	33.8452	65.8
11	41 13C8-PFOS	507.0 > 79.9	2.19e3	2.23e3	0.243	0.862	5.02	4.86	12.3	58.6701	114.0
12	42 13C2-PFDA	515.1 > 469.9	6.36e3	7.24e3	0.243	0.996	5.31	5.15	11.0	45.3825	88.2
13	43 13C2-8:2 FTS	529.1 > 508.7	1.11e3	8.98e3	0.243	0.103	5.28	5.12	1.55	61.9499	120.4
14	44 d3-N-MeFOSAA	573.3 > 419	2.49e3	8.67e3	0.243	0.340	5.45	5.30	3.59	43.5311	84.6
15	45 d5-N-EtFOSAA	589.3 > 419	2.86e3	8.67e3	0.243	0.377	5.60	5.45	4.13	45.1289	87.7
16	46 13C2-PFUdA	565 > 519.8	6.49e3	8.67e3	0.243	0.944	5.62	5.47	9.36	40.8479	79.4
17	47 13C2-PFDoA	615.0 > 569.7	5.44e3	8.67e3	0.243	0.726	5.91	5.75	7.85	44.4959	86.5
18	49 13C2-PFTeDA	714.8 > 669.6	3.02e3	8.67e3	0.243	0.371	6.35	6.20	4.35	48.2755	93.8
19	55 13C5-PFHxA	318 > 272.9	8.98e3	8.98e3	0.243	1.000	3.36	3.22	12.5	51.4679	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.95e3	1.95e3	0.243	1.000	4.14	3.98	12.5	51.4679	100.0
21	57 13C8-PFOA	421.3 > 376	7.51e3	7.51e3	0.243	1.000	4.50	4.35	12.5	51.4679	100.0
22	58 13C9-PFNA	472.2 > 426.9	6.92e3	6.92e3	0.243	1.000	4.94	4.78	12.5	51.4679	100.0
23	59 13C4-PFOS	503 > 79.9	2.23e3	2.23e3	0.243	1.000	5.02	4.86	12.5	51.4679	100.0
24	60 13C6-PFDA	519.1 > 473.7	7.24e3	7.24e3	0.243	1.000	5.31	5.15	12.5	51.4679	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.67e3	8.67e3	0.243	1.000	5.62	5.47	12.5	51.4679	100.0
26	62 Total PFHxS	398.9 > 79.6	2.05e1	6.90e2	0.243		4.14		0.371	0.6487	
27	63 Total PFOA	413 > 368.7	4.37e3	6.80e3	0.243		4.51		8.02	28.1950	
28	64 Total PFOS	499 > 79.9	2.01e2	2.19e3	0.243		5.02		1.15	4.4267	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.49e3	0.243		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.86e3	0.243		5.61		0.000		

Use only

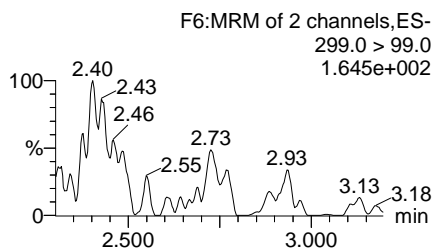
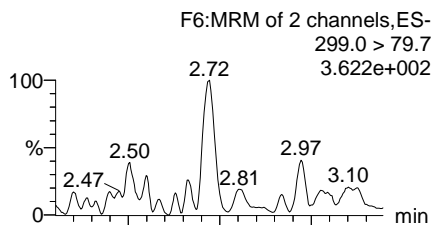
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Printed: Tuesday, January 16, 2018 13:25:05 Pacific Standard Time

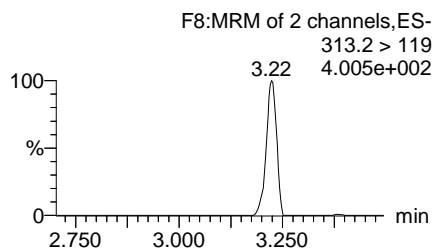
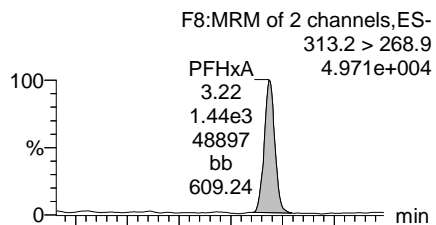
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Name: 180115M2_50, Date: 16-Jan-2018, Time: 09:42:12, ID: 1701953-03 SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

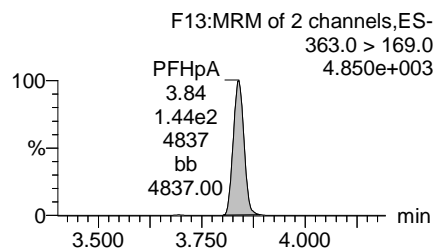
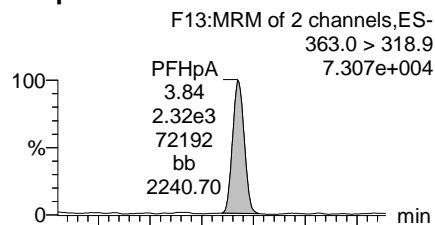
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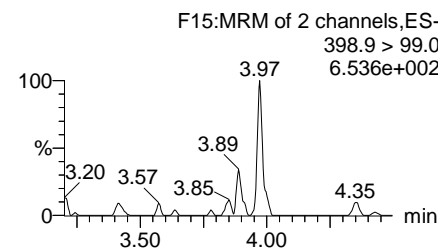
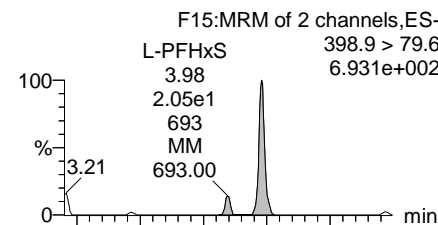
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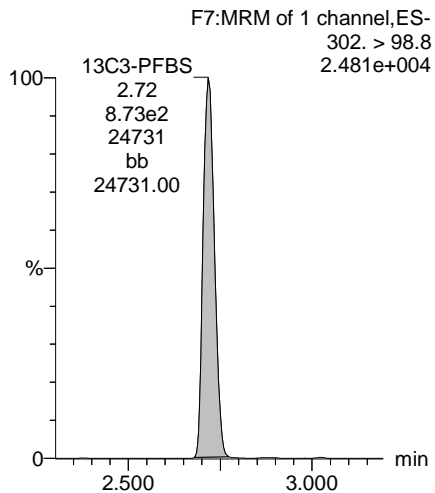
PFHpA



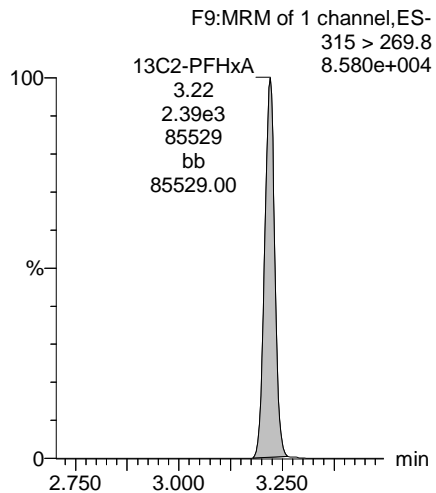
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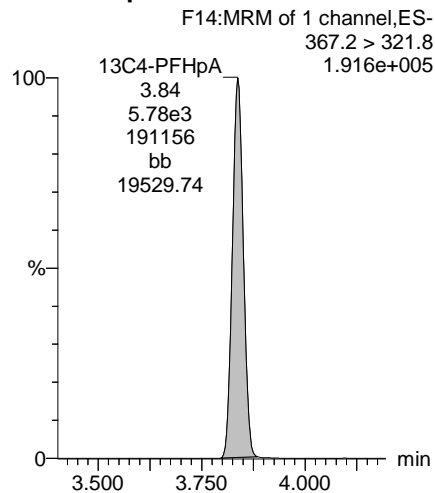
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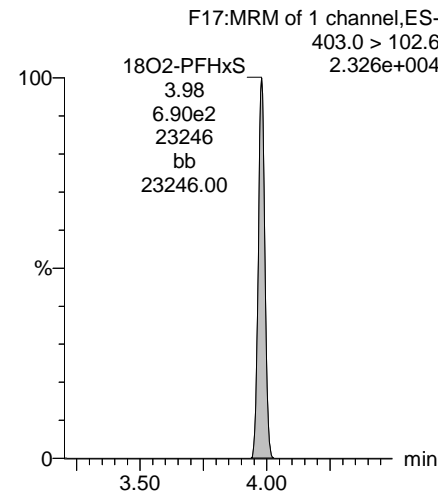
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13C4-PFHpA



18O2-PFHxS



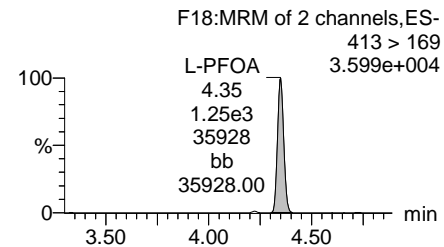
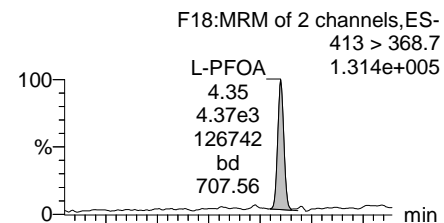
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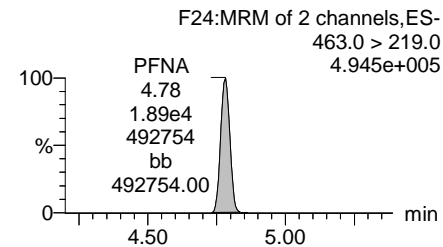
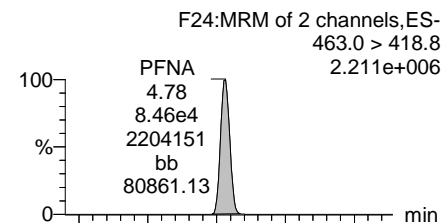
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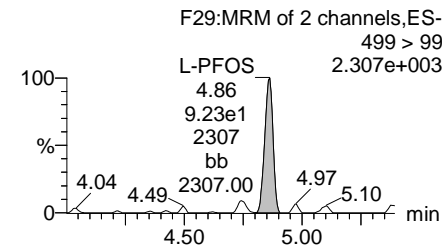
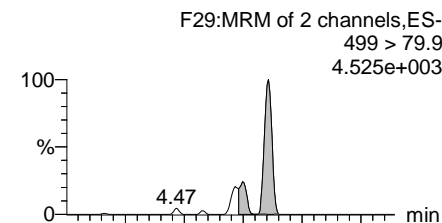
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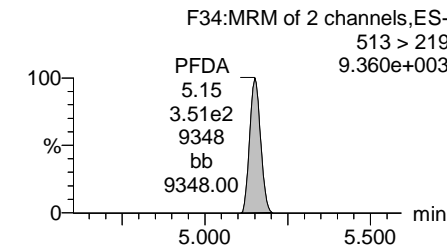
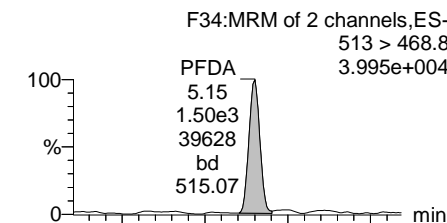
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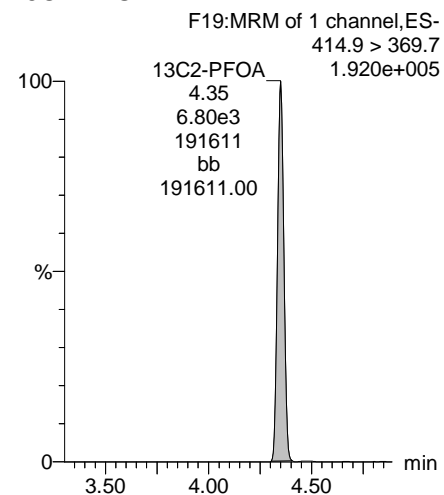
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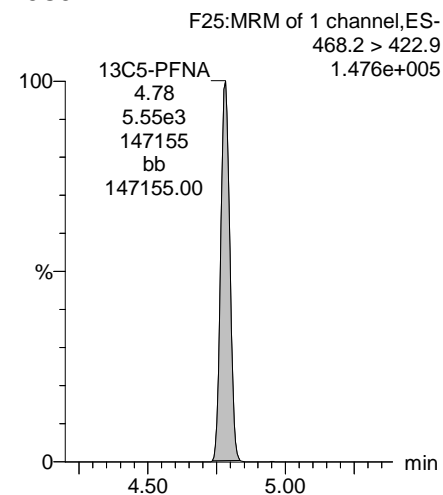
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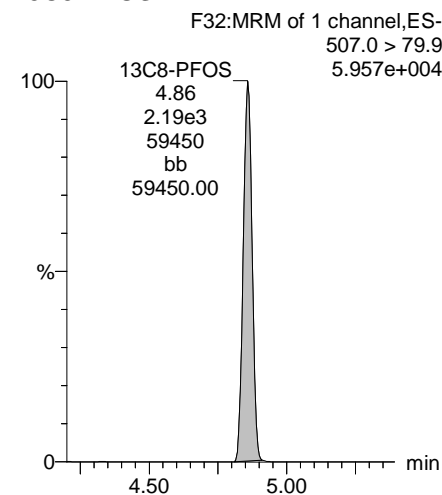
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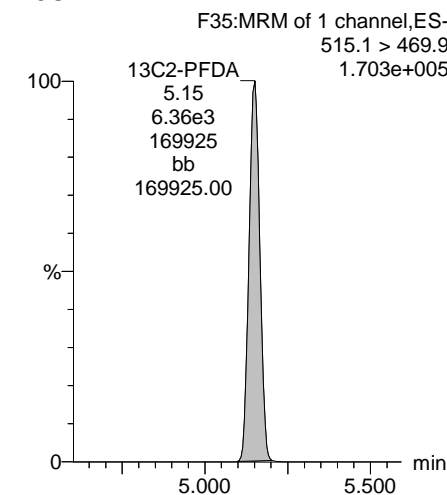
13C5-PFNA



13C8-PFOS



13C2-PFDA



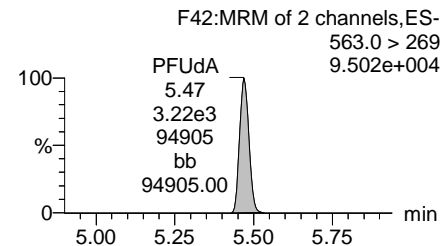
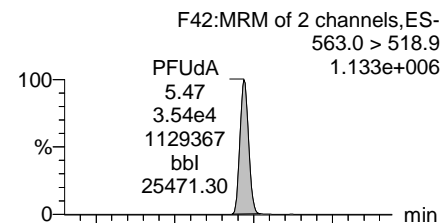
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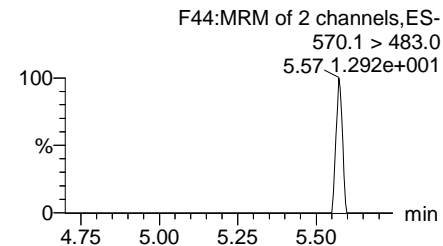
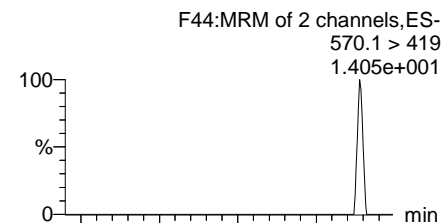
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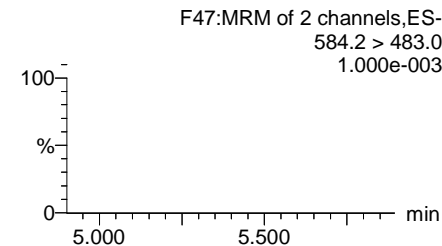
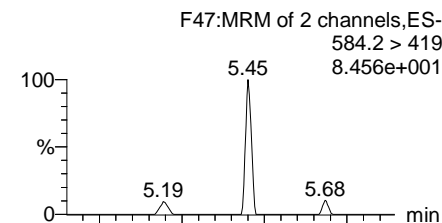
PFUdA



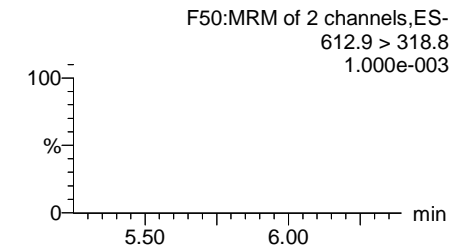
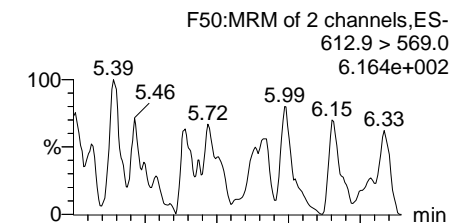
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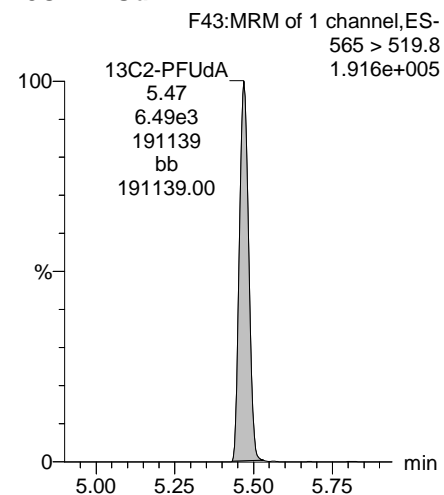
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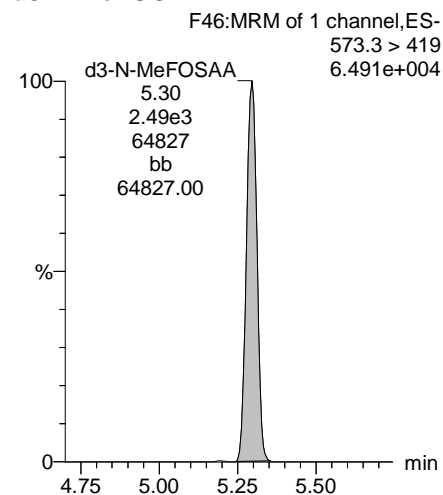
PFDaA



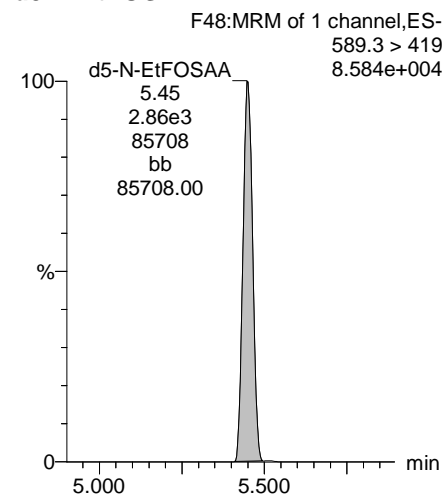
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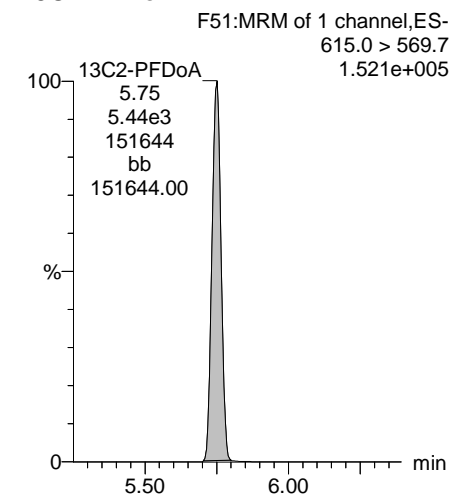
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



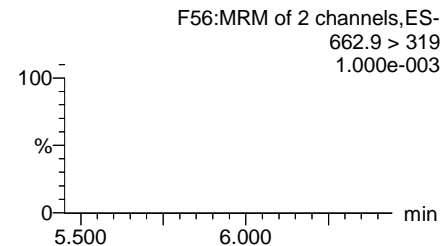
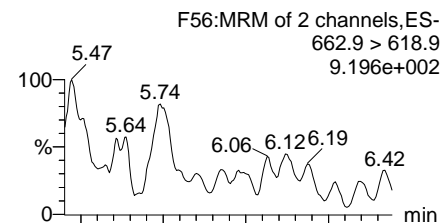
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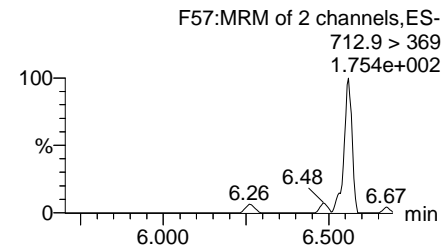
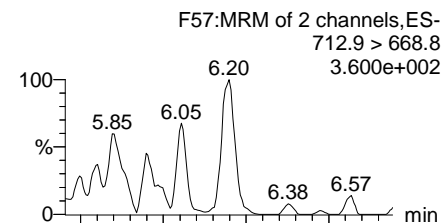
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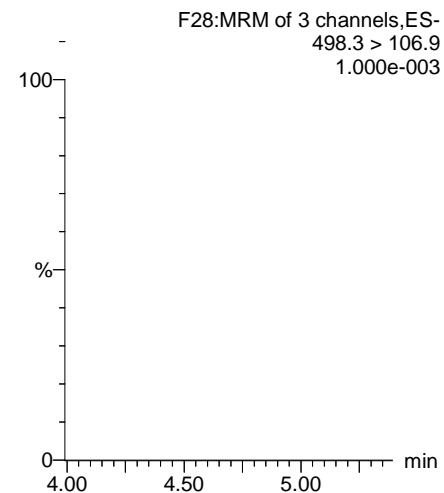
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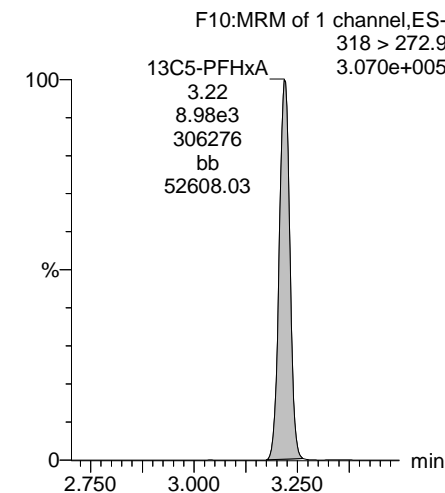
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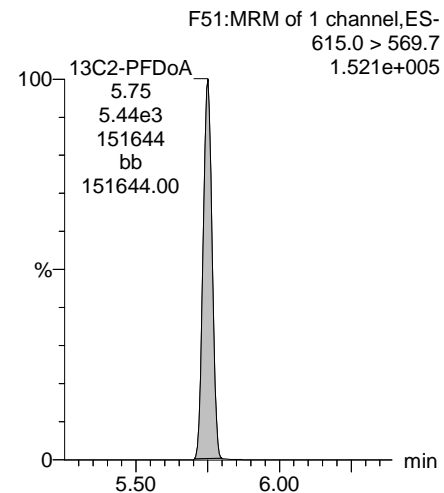
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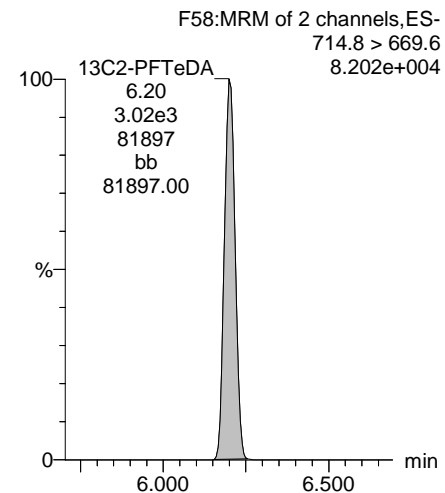
13C5-PFHxA



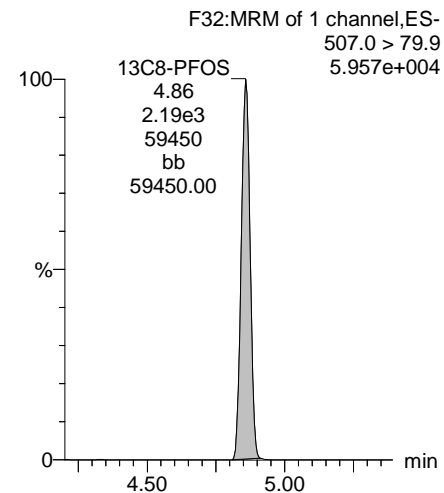
13C2-PFDoA



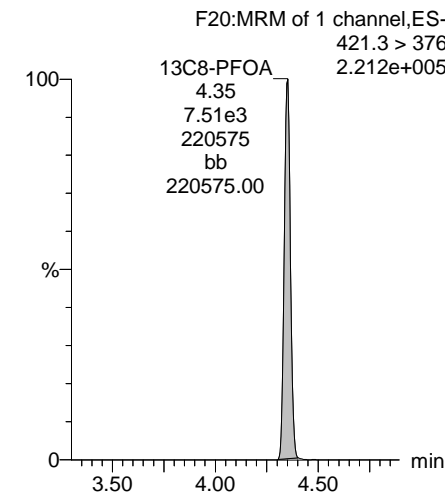
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



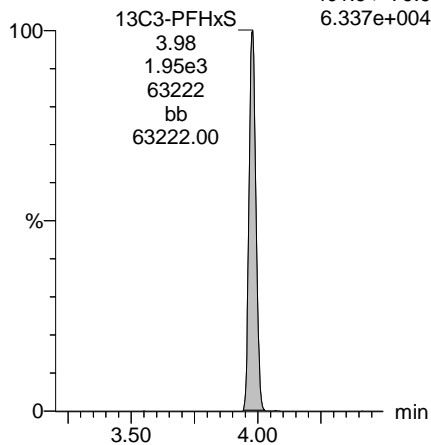
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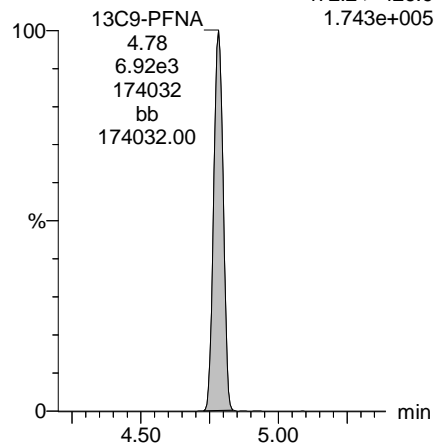
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
6.337e+004



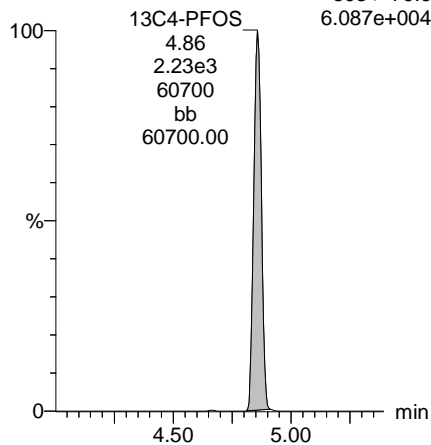
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F26:MRM of 1 channel,ES-
472.2 > 426.9
1.743e+005



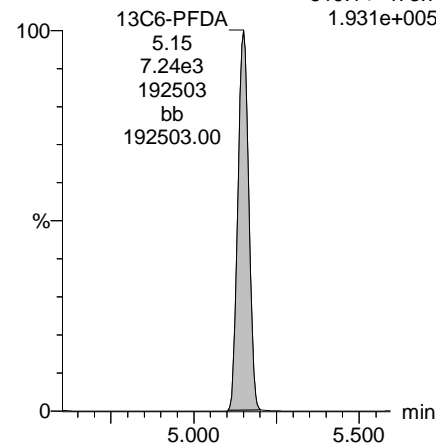
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.087e+004



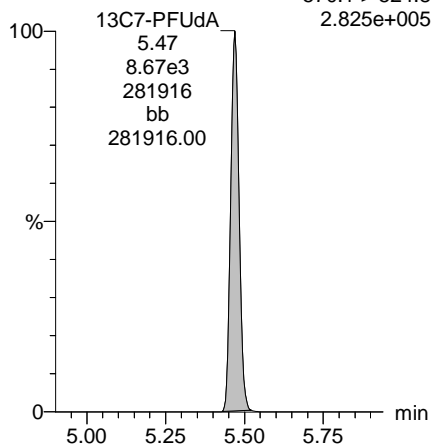
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.931e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.825e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-107.qld

Last Altered: Thursday, January 18, 2018 11:17:36 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:18:10 Pacific Standard Time

*See dilution.

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_107, Date: 16-Jan-2018, Time: 20:55:35, ID: 1701953-03 SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.76e2	0.243		2.87				
2	4 PFHxA	313.2 > 268.9	1.40e3	2.23e3	0.243		3.36	3.17	3.15	7.3436	
3	5 PFHpA	363.0 > 318.9	2.38e3	5.48e3	0.243		4.00	3.78	5.42	15.0883	
4	6 L-PFHxS	398.9 > 79.6	2.86e1	6.77e2	0.243		3.94	3.93	0.529	0.9568	
5	9 L-PFOA	413 > 368.7	3.98e3	6.83e3	0.243		4.34	4.30	7.29	25.4954	
6	12 PFNA	463.0 > 418.8	9.00e4	6.27e3	0.243		4.94	4.73	180	492.8553 E*	
7	14 L-PFOS	499 > 79.9	2.33e2	1.78e3	0.243		5.02	4.82	1.63	6.2231	
8	16 PFDA	513 > 468.8	1.66e3	5.62e3	0.243		5.31	5.11	3.69	10.5829	
9	18 N-MeFOSAA	570.1 > 419		2.46e3	0.243		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.89e3	0.243		5.60				
11	20 PFUdA	563.0 > 518.9	2.74e4	6.16e3	0.243		5.62	5.43	55.5	244.0466	
12	22 PFDoA	612.9 > 569.0		3.61e3	0.243		5.91				

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-107.qld

Last Altered: Thursday, January 18, 2018 11:17:36 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:18:18 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_107, Date: 16-Jan-2018, Time: 20:55:35, ID: 1701953-03 SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.61e3	0.243		6.15				
2	25 PFTeDA	712.9 > 668.8		2.44e3	0.243		6.35				
3	33 13C3-PFBS	302. > 98.8	9.76e2	8.66e3	0.243	0.095	2.87	2.67	1.41	61.0695	118.7
4	34 13C2-PFHxA	315 > 269.8	2.23e3	8.66e3	0.243	0.636	3.36	3.16	3.22	20.8423	101.2
5	35 13C4-PFHpA	367.2 > 321.8	5.48e3	8.66e3	0.243	0.621	4.00	3.78	7.92	52.5329	102.1
6	36 18O2-PFHxS	403.0 > 102.6	6.77e2	2.35e3	0.243	0.336	4.14	3.93	3.60	44.1381	85.8
7	37 13C2-6:2 FTS	429.1 > 408.9	1.39e3	7.54e3	0.243	0.192	4.46	4.25	2.30	49.2299	95.7
8	38 13C2-PFOA	414.9 > 369.7	6.83e3	7.54e3	0.243	1.001	4.50	4.30	11.3	46.5241	90.4
9	39 13C5-PFNA	468.2 > 422.9	6.27e3	8.07e3	0.243	0.811	4.94	4.74	9.71	49.2909	95.8
10	40 13C8-PFOA	506.1 > 77.7	1.36e3	8.14e3	0.243	0.196	5.00	4.80	2.09	43.7300	85.0
11	41 13C8-PFOS	507.0 > 79.9	1.78e3	2.31e3	0.243	0.862	5.02	4.82	9.63	46.0429	89.5
12	42 13C2-PFDA	515.1 > 469.9	5.62e3	4.58e3	0.243	0.996	5.31	5.10	15.3	63.3838	123.2
13	43 13C2-8:2 FTS	529.1 > 508.7	7.30e2	8.66e3	0.243	0.103	5.28	5.08	1.05	42.1659	81.9
14	44 d3-N-MeFOSAA	573.3 > 419	2.46e3	8.14e3	0.243	0.340	5.45	5.26	3.78	45.7326	88.9
15	45 d5-N-EtFOSAA	589.3 > 419	2.89e3	8.14e3	0.243	0.377	5.60	5.41	4.45	48.5766	94.4
16	46 13C2-PFUdA	565 > 519.8	6.16e3	8.14e3	0.243	0.944	5.62	5.43	9.47	41.3108	80.3
17	47 13C2-PFDoA	615.0 > 569.7	3.61e3	8.14e3	0.243	0.726	5.91	5.71	5.54	31.4230	61.1
18	49 13C2-PFTeDA	714.8 > 669.6	2.44e3	8.14e3	0.243	0.371	6.35	6.17	3.74	41.4918	80.6
19	55 13C5-PFHxA	318 > 272.9	8.66e3	8.66e3	0.243	1.000	3.36	3.16	12.5	51.4679	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.35e3	2.35e3	0.243	1.000	4.14	3.93	12.5	51.4679	100.0
21	57 13C8-PFOA	421.3 > 376	7.54e3	7.54e3	0.243	1.000	4.50	4.30	12.5	51.4679	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.07e3	8.07e3	0.243	1.000	4.94	4.74	12.5	51.4679	100.0
23	59 13C4-PFOS	503 > 79.9	2.31e3	2.31e3	0.243	1.000	5.02	4.82	12.5	51.4679	100.0
24	60 13C6-PFDA	519.1 > 473.7	4.58e3	4.58e3	0.243	1.000	5.31	5.11	12.5	51.4679	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.14e3	8.14e3	0.243	1.000	5.62	5.43	12.5	51.4679	100.0
26	62 Total PFHxS	398.9 > 79.6	2.86e1	6.77e2	0.243		4.14		0.529	0.9568	
27	63 Total PFOA	413 > 368.7	3.98e3	6.83e3	0.243		4.51		7.29	25.4954	
28	64 Total PFOS	499 > 79.9	2.33e2	1.78e3	0.243		5.02		1.63	6.2231	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.46e3	0.243		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.89e3	0.243		5.61		0.000		

See original run

Dataset: U:\Q4.PRO\results\180115M2\180115M2-107.qld

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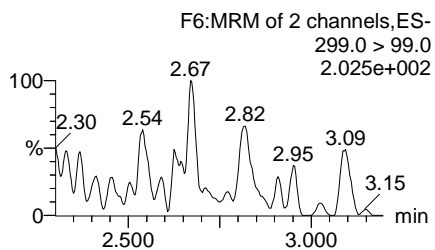
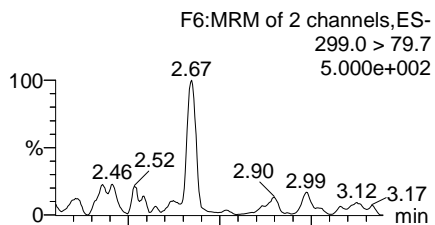
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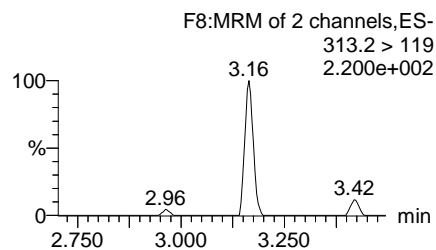
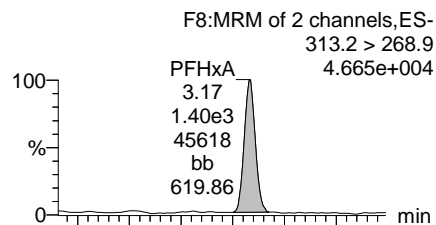
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Name: 180115M2_107, Date: 16-Jan-2018, Time: 20:55:35, ID: 1701953-03 SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

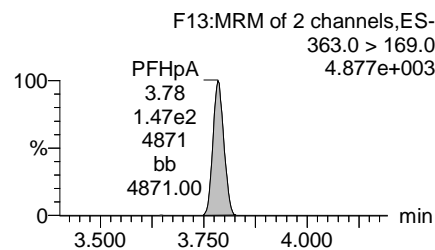
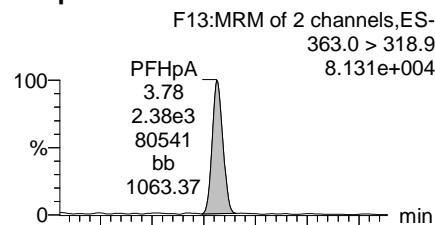
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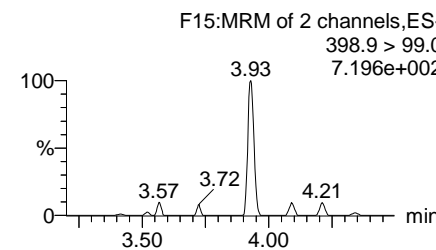
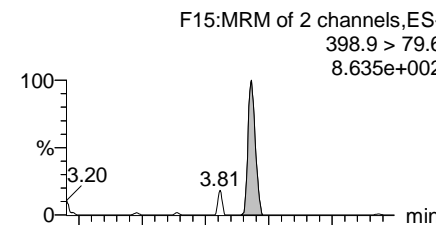
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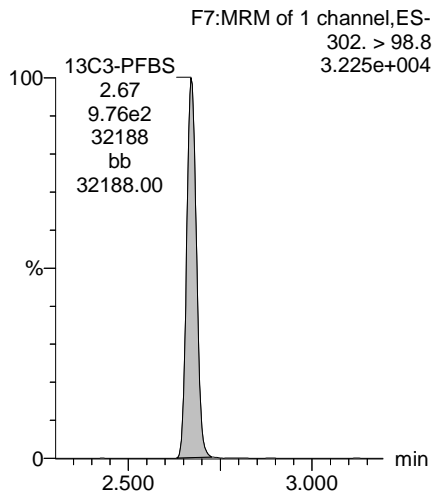
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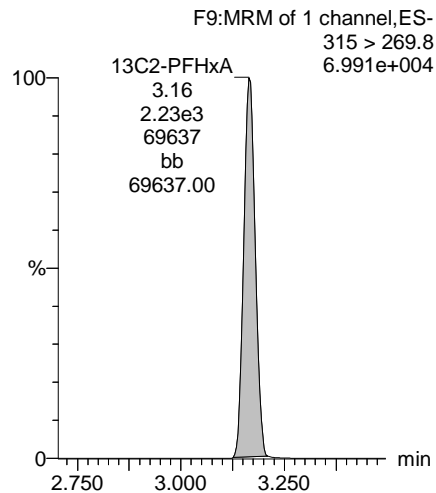
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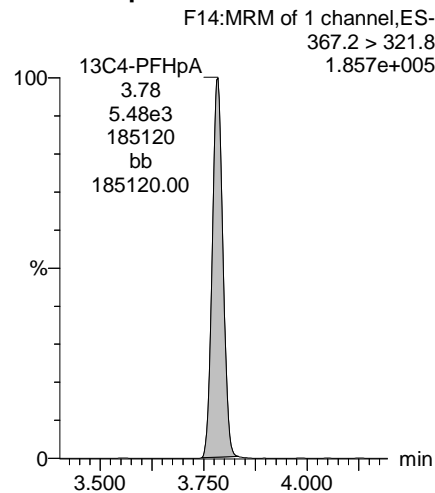
13C3-PFBS



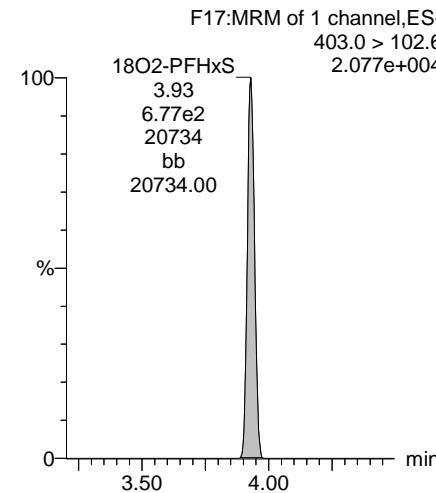
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13C4-PFHpA



18O2-PFHxS

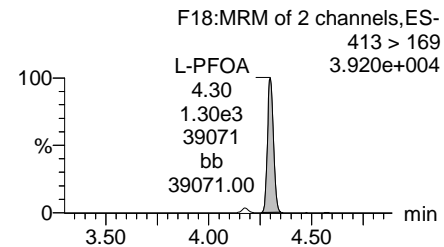
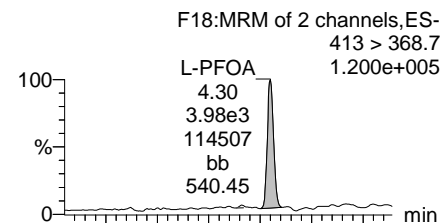


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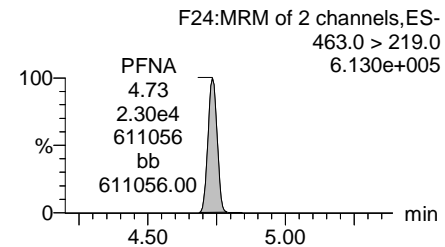
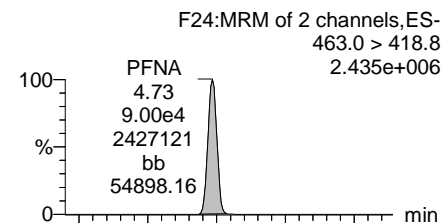
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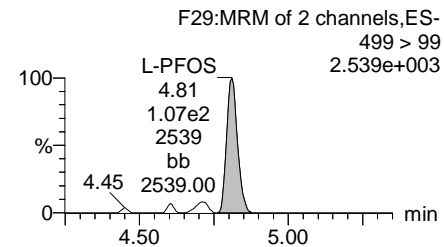
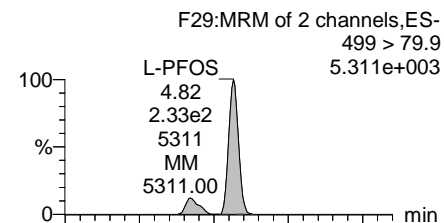
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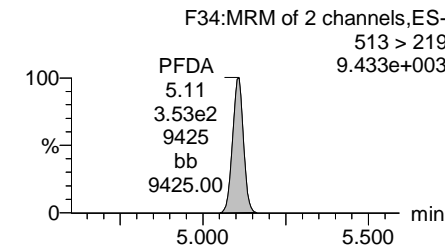
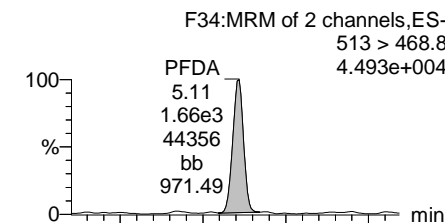
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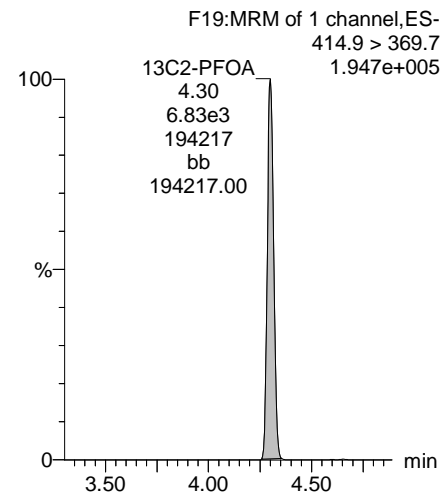
Total PFOS



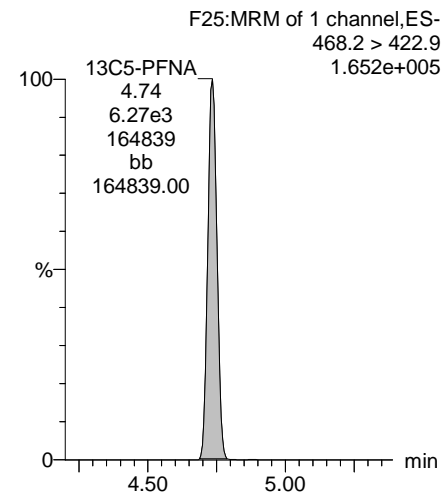
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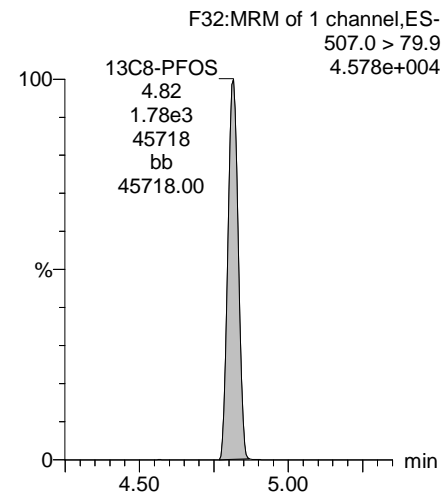
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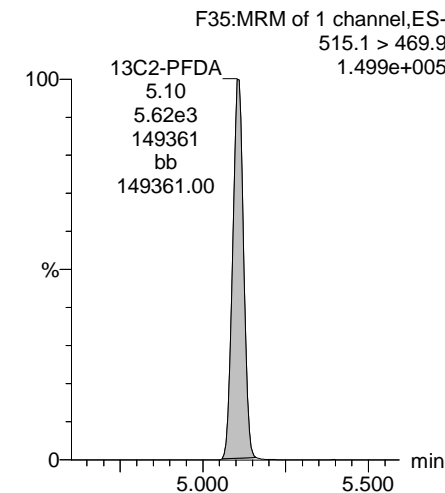
13C5-PFNA



13C8-PFOS



13C2-PFDA

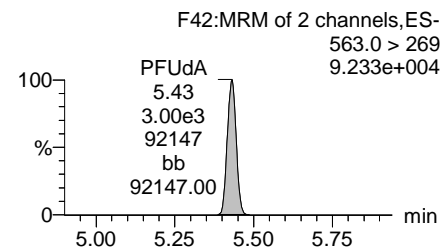
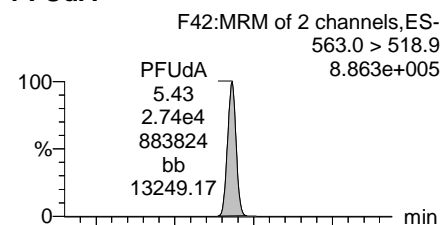


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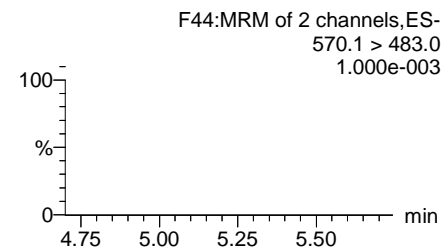
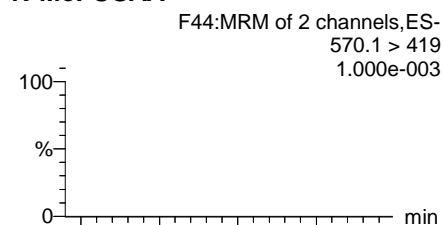
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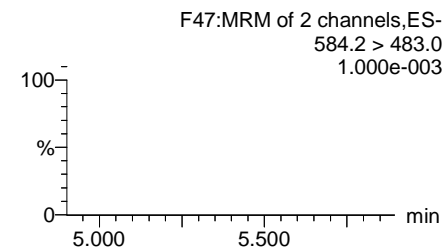
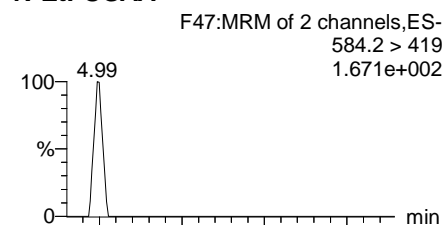
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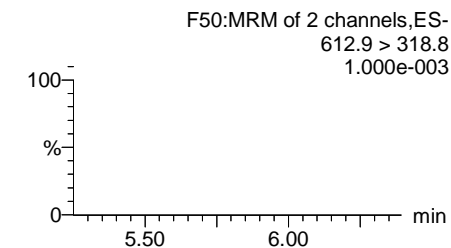
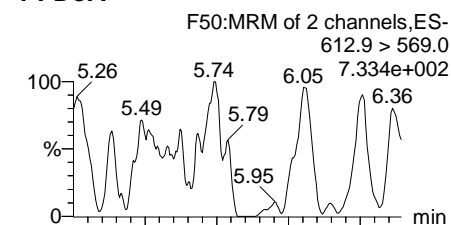
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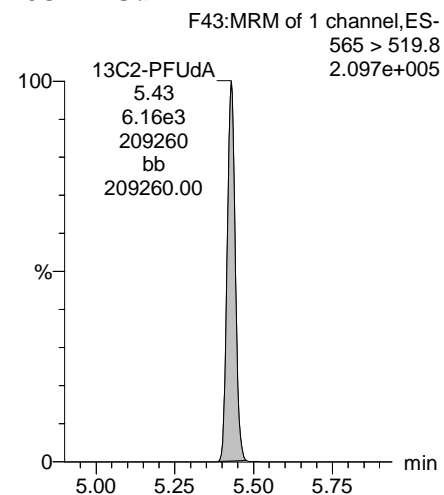
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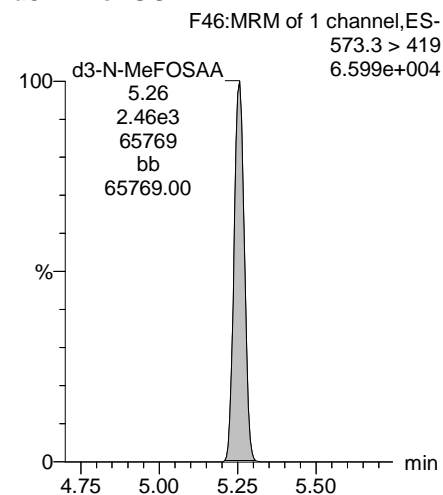
PFDoA



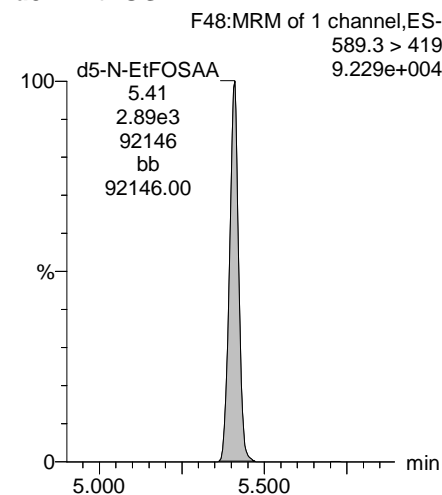
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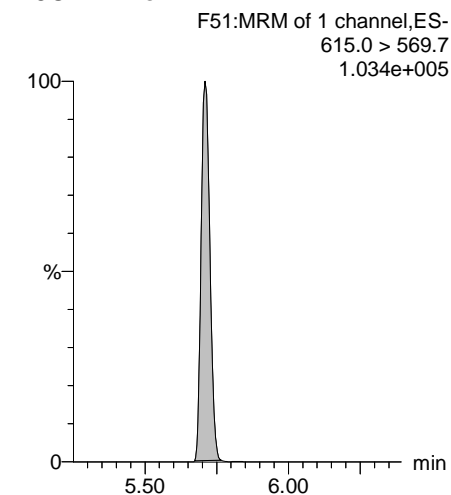
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA

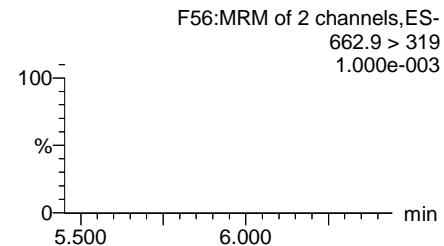
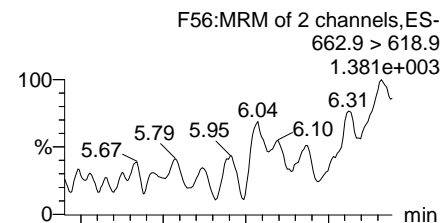


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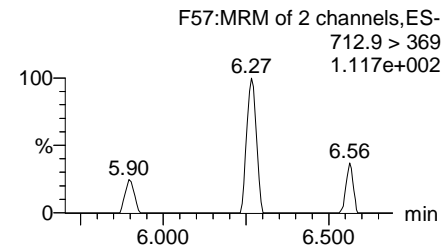
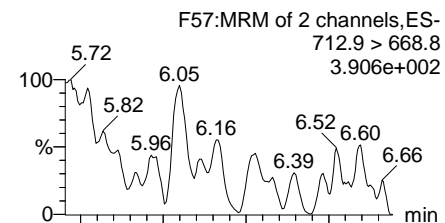
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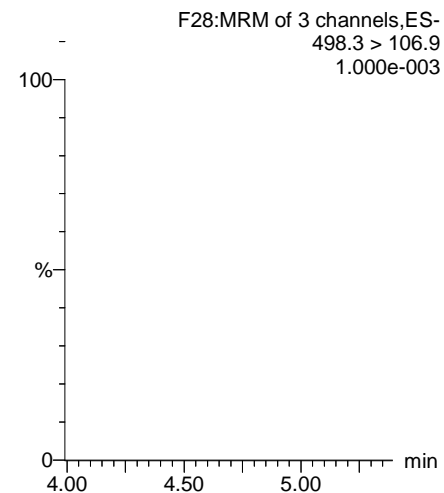
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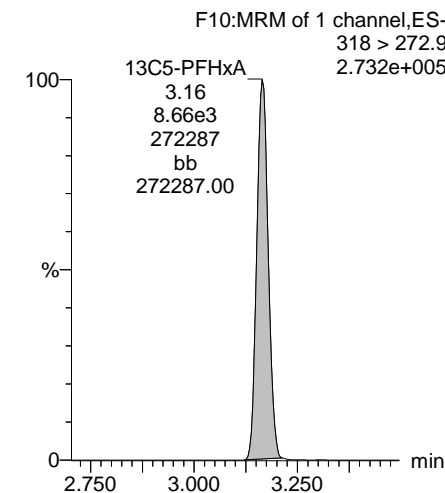
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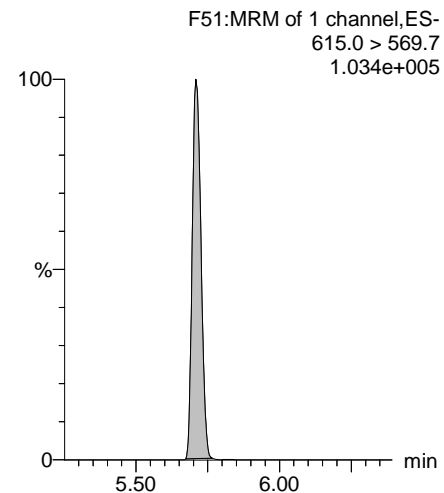
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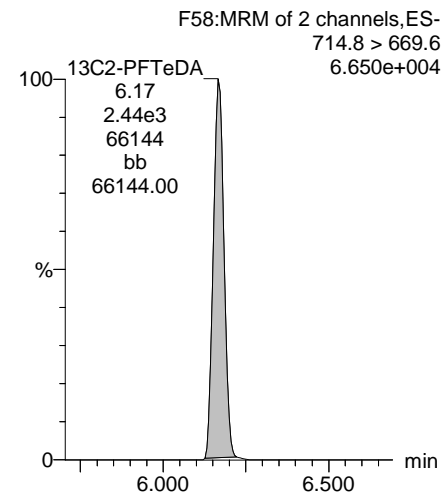
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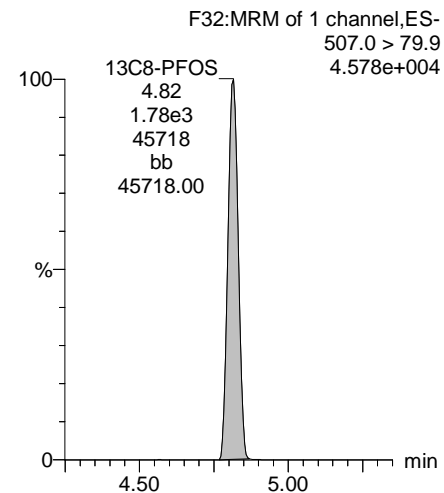
13C2-PFDoA



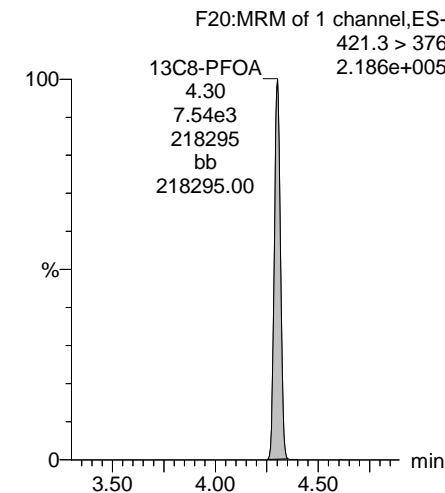
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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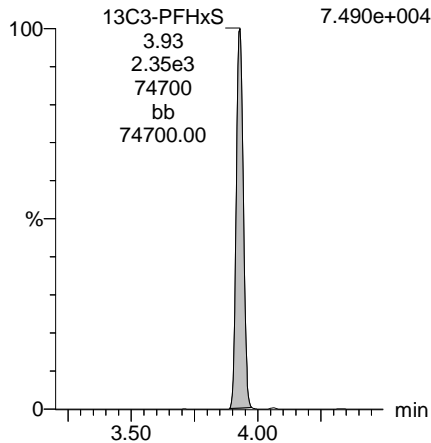
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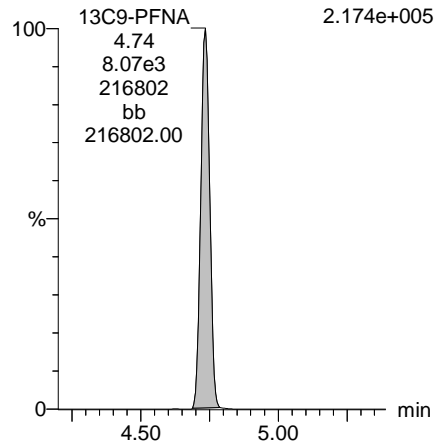
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F16:MRM of 1 channel,ES-
401.9 > 79.9
7.490e+004



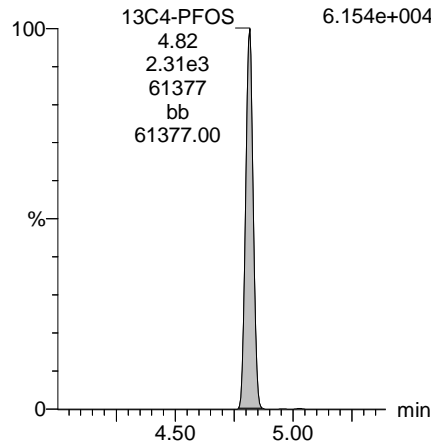
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.174e+005



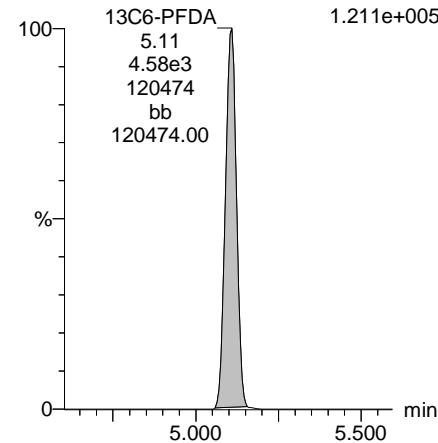
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F30:MRM of 1 channel,ES-
503 > 79.9
6.154e+004



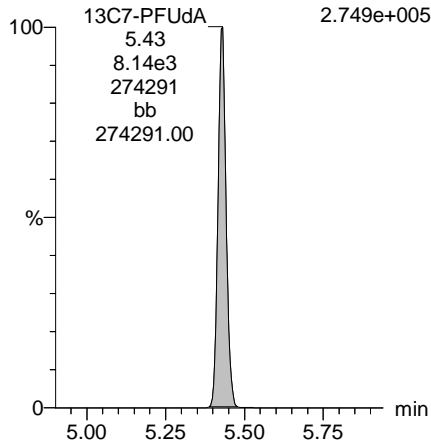
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.211e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.749e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-98.qld

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Printed: Thursday, January 18, 2018 11:08:37 Pacific Standard Time

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

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2	39 13C5-PFNA	468.2 > 422.9	1.23e3	1.48e3	0.811	0.2429	4.94	4.73	10.4	52.9	102.7
3	58 13C9-PFNA	472.2 > 426.9	1.48e3	1.48e3	1.000	0.2429	4.94	4.73	12.5	51.5	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-98.qld

Last Altered: Thursday, January 18, 2018 11:07:54 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:08:37 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

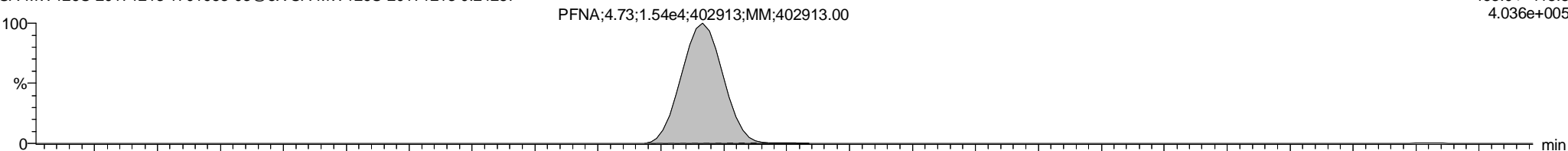
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PFNA

180115M2_98 Smooth(Mn,1x2)

SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

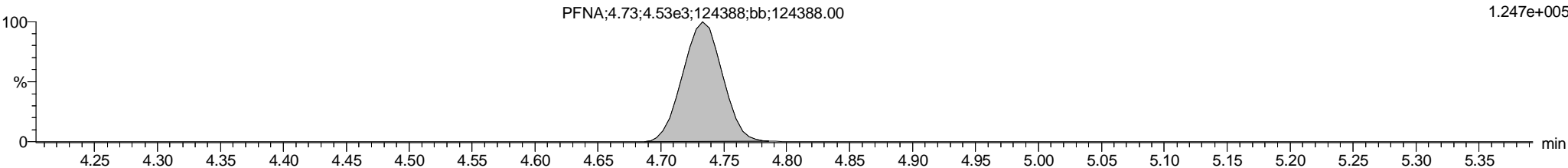
F24:MRM of 2 channels,ES-
463.0 > 418.8
4.036e+005



180115M2_98 Smooth(Mn,1x2)

SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

F24:MRM of 2 channels,ES-
463.0 > 219.0
1.247e+005

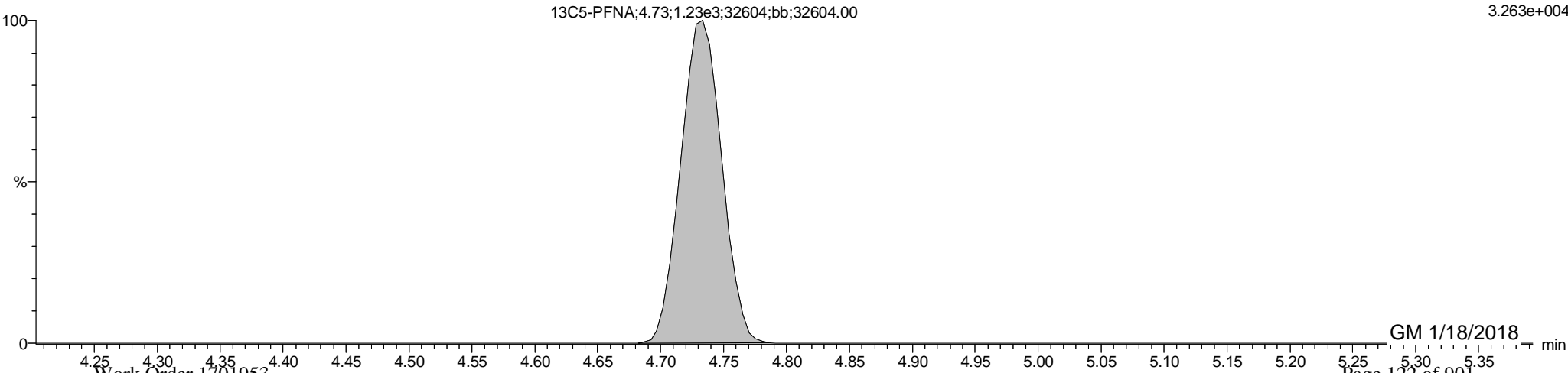


13C5-PFNA

180115M2_98 Smooth(Mn,1x2)

SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

F25:MRM of 1 channel,ES-
468.2 > 422.9
3.263e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-98.qld

Last Altered: Thursday, January 18, 2018 11:07:54 Pacific Standard Time

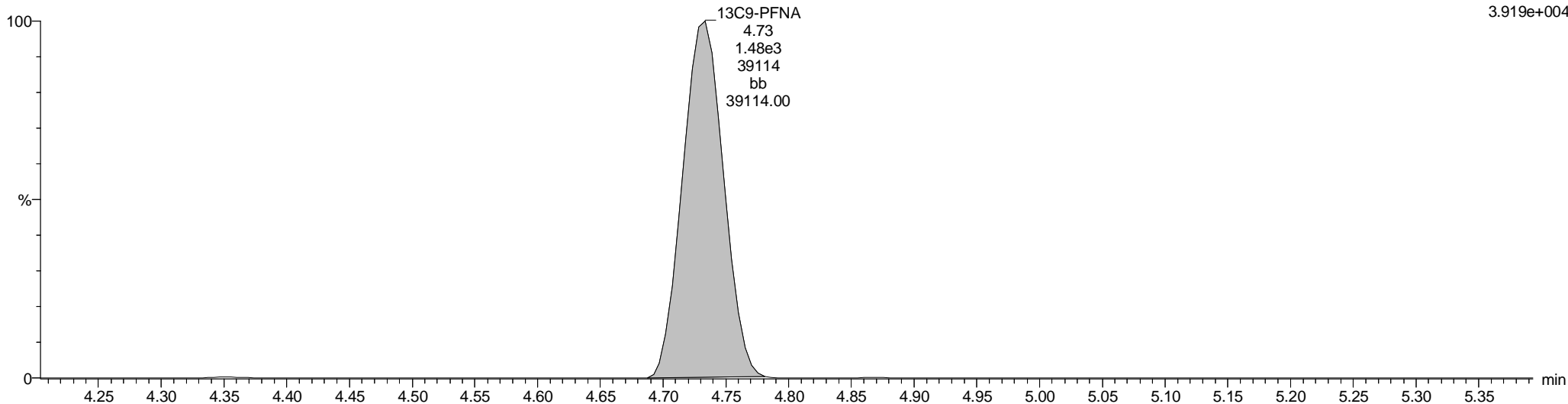
Printed: Thursday, January 18, 2018 11:08:37 Pacific Standard Time

Name: 180115M2_98, Date: 16-Jan-2018, Time: 19:12:35, ID: 1701953-03@5X SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

13C9-PFNA

180115M2_98 Smooth(Mn,1x2)
SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.919e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-98_UG.qld

Last Altered: Tuesday, January 30, 2018 10:29:37 Pacific Standard Time

Printed: Tuesday, January 30, 2018 10:30:33 Pacific Standard Time

*ug/L

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_98, Date: 16-Jan-2018, Time: 19:12:35, ID: 1701953-03@5X SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc. *	%Rec
1	20 PFUdA	563.0 > 518.9	5.45e3	1.18e3	0.24287		5.62	5.43	0.0576	0.933	
2	46 13C2-PFUdA	565 > 519.8	1.18e3	1.44e3	0.24287	0.944	5.62	5.42	0.0102	0.045	86.7
3	61 13C7-PFUdA	570.1 > 524.8	1.44e3	1.44e3	0.24287	1.000	5.62	5.43	0.0125	0.051	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-98_UG.qld

Last Altered: Tuesday, January 30, 2018 10:29:37 Pacific Standard Time
Printed: Tuesday, January 30, 2018 10:30:33 Pacific Standard Time

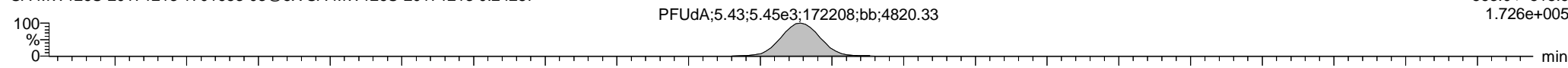
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_98, Date: 16-Jan-2018, Time: 19:12:35, ID: 1701953-03@5X SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

PFUdA

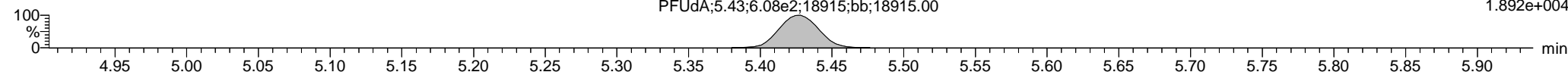
180115M2_98 Smooth(Mn,1x2)
SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

F42:MRM of 2 channels,ES-
563.0 > 518.9
1.726e+005



180115M2_98 Smooth(Mn,1x2)
SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

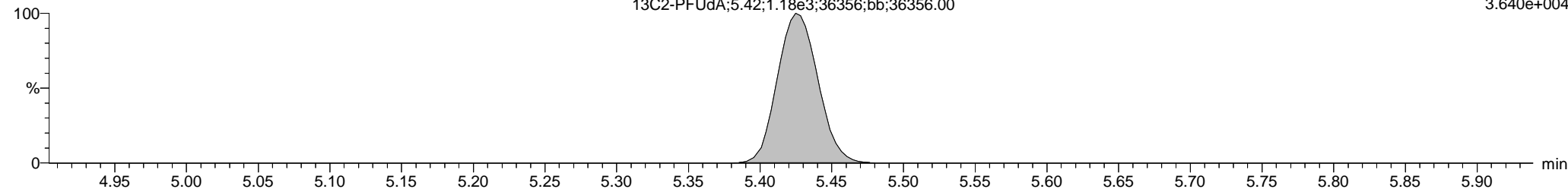
F42:MRM of 2 channels,ES-
563.0 > 269
1.892e+004



13C2-PFUdA

180115M2_98 Smooth(Mn,1x2)
SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

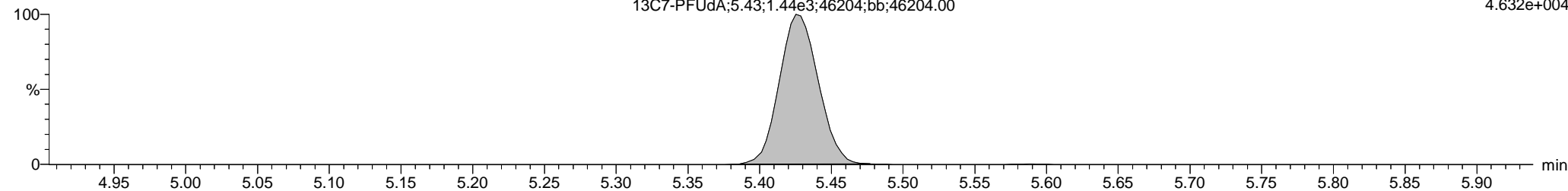
F43:MRM of 1 channel,ES-
565 > 519.8
3.640e+004



13C7-PFUdA

180115M2_98 Smooth(Mn,1x2)
SA-MW126S-20171213 1701953-03@5X SA-MW126S-20171213 0.24287

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.632e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-51.qld

Last Altered: Tuesday, January 16, 2018 13:27:03 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:28:05 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	1.59e1	1.02e3	0.241		2.87	2.73	0.196		
2	4 PFHxA	313.2 > 268.9	9.02e2	2.19e3	0.241		3.36	3.22	2.06	4.8381	
3	5 PFHpA	363.0 > 318.9	7.85e2	5.43e3	0.241		4.00	3.84	1.81	5.1694	
4	6 L-PFHxS	398.9 > 79.6	4.20e1	6.98e2	0.241		4.14	3.98	0.752	1.4031	
5	9 L-PFOA	413 > 368.7	1.96e3	6.75e3	0.241		4.50	4.35	3.62	12.1095	
6	12 PFNA	463.0 > 418.8	2.54e3	5.49e3	0.241		4.94	4.78	5.79	17.7625	
7	14 L-PFOS	499 > 79.9	2.91e2	2.11e3	0.241		5.02	4.86	1.73	6.6161	
8	16 PFDA	513 > 468.8		4.43e3	0.241		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.21e3	0.241		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.45e3	0.241		5.60				
11	20 PFUdA	563.0 > 518.9	1.06e2	5.83e3	0.241		5.62	5.47	0.228	1.4583	Use only
12	22 PFDaA	612.9 > 569.0		4.38e3	0.241		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-51.qld

Last Altered: Tuesday, January 16, 2018 13:27:03 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:03:17 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.38e3	0.241		6.15				
2	25 PFTeDA	712.9 > 668.8		2.41e3	0.241		6.35				
3	33 13C3-PFBS	302. > 98.8	1.02e3	8.32e3	0.241	0.095	2.87	2.72	1.53	66.6411	128.5
4	34 13C2-PFHxA	315 > 269.8	2.19e3	8.32e3	0.241	0.636	3.36	3.22	3.28	21.4156	103.2
5	35 13C4-PFHpA	367.2 > 321.8	5.43e3	8.32e3	0.241	0.621	4.00	3.84	8.17	54.5726	105.2
6	36 18O2-PFHxS	403.0 > 102.6	6.98e2	2.14e3	0.241	0.336	4.14	3.98	4.08	50.4271	97.2
7	37 13C2-6:2 FTS	429.1 > 408.9	1.35e3	7.69e3	0.241	0.192	4.46	4.29	2.20	47.3625	91.3
8	38 13C2-PFOA	414.9 > 369.7	6.75e3	7.69e3	0.241	1.001	4.50	4.35	11.0	45.4631	87.7
9	39 13C5-PFNA	468.2 > 422.9	5.49e3	8.82e3	0.241	0.811	4.94	4.78	7.78	39.8023	76.8
10	40 13C8-PFOA	506.1 > 77.7	9.87e2	8.27e3	0.241	0.196	5.00	4.84	1.49	31.4845	60.7
11	41 13C8-PFOS	507.0 > 79.9	2.11e3	2.12e3	0.241	0.862	5.02	4.85	12.5	59.9899	115.7
12	42 13C2-PFDA	515.1 > 469.9	4.43e3	5.87e3	0.241	0.996	5.31	5.14	9.44	39.3187	75.8
13	43 13C2-8:2 FTS	529.1 > 508.7	8.31e2	8.32e3	0.241	0.103	5.28	5.11	1.25	50.3302	97.1
14	44 d3-N-MeFOSAA	573.3 > 419	2.21e3	8.27e3	0.241	0.340	5.45	5.29	3.34	40.7128	78.5
15	45 d5-N-EtFOSAA	589.3 > 419	2.45e3	8.27e3	0.241	0.377	5.60	5.44	3.71	40.8184	78.7
16	46 13C2-PFUdA	565 > 519.8	5.83e3	8.27e3	0.241	0.944	5.62	5.47	8.81	38.7279	74.7
17	47 13C2-PFDoA	615.0 > 569.7	4.38e3	8.27e3	0.241	0.726	5.91	5.75	6.61	37.7732	72.8
18	49 13C2-PFTeDA	714.8 > 669.6	2.41e3	8.27e3	0.241	0.371	6.35	6.20	3.65	40.7597	78.6
19	55 13C5-PFHxA	318 > 272.9	8.32e3	8.32e3	0.241	1.000	3.36	3.22	12.5	51.8543	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.14e3	2.14e3	0.241	1.000	4.14	3.98	12.5	51.8543	100.0
21	57 13C8-PFOA	421.3 > 376	7.69e3	7.69e3	0.241	1.000	4.50	4.35	12.5	51.8543	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.82e3	8.82e3	0.241	1.000	4.94	4.78	12.5	51.8543	100.0
23	59 13C4-PFOS	503 > 79.9	2.12e3	2.12e3	0.241	1.000	5.02	4.86	12.5	51.8543	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.87e3	5.87e3	0.241	1.000	5.31	5.15	12.5	51.8543	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.27e3	8.27e3	0.241	1.000	5.62	5.47	12.5	51.8543	100.0
26	62 Total PFHxS	398.9 > 79.6	4.20e1	6.98e2	0.241		4.14		0.752	1.4031	
27	63 Total PFOA	413 > 368.7	1.96e3	6.75e3	0.241		4.51		3.62	12.1095	
28	64 Total PFOS	499 > 79.9	2.91e2	2.11e3	0.241		5.02		1.73	6.6161	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.21e3	0.241		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.45e3	0.241		5.61		0.000		

Use only

Dataset: U:\Q4.PRO\results\180115M2\180115M2-51.qld

Last Altered: Tuesday, January 16, 2018 13:27:03 Pacific Standard Time

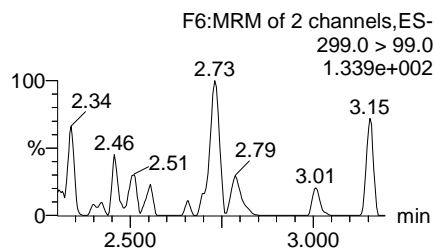
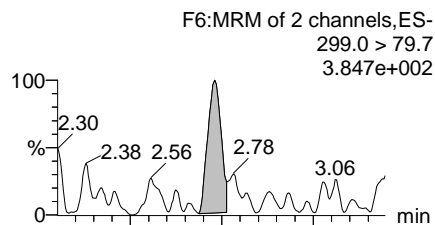
Printed: Tuesday, January 16, 2018 13:28:23 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

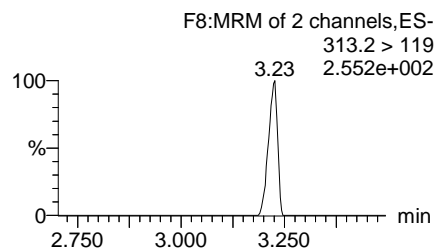
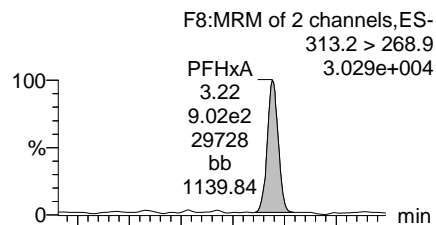
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

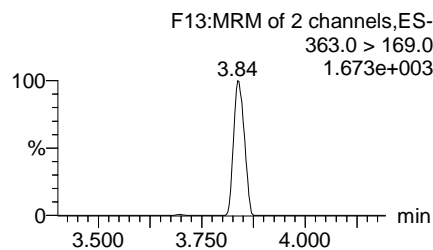
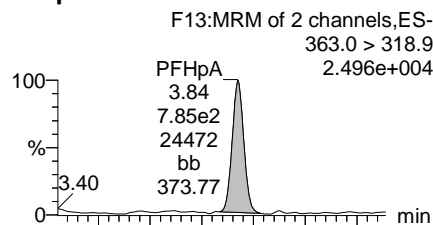
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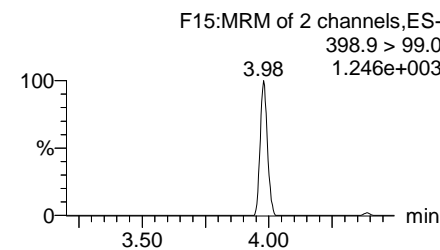
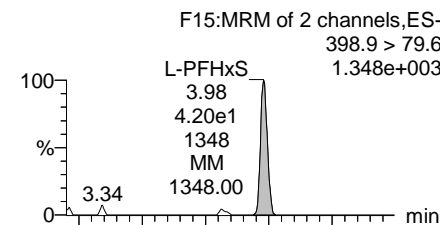
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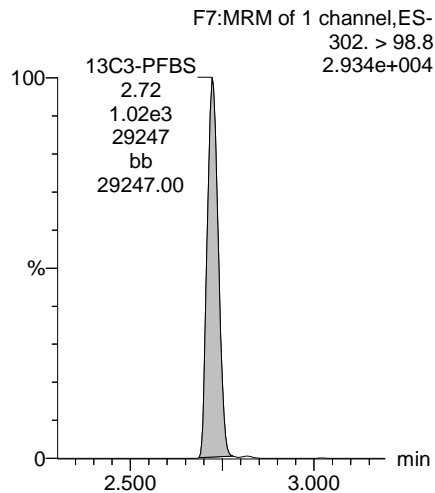
PFHpA



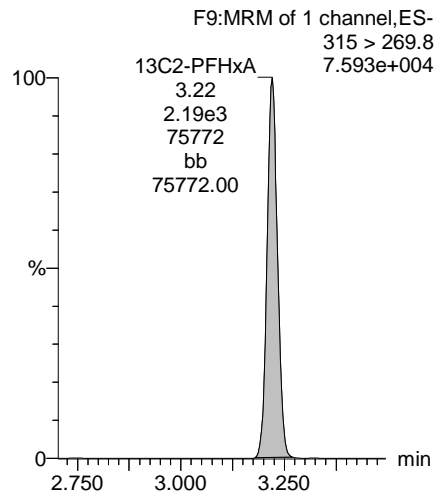
Total PFHxS



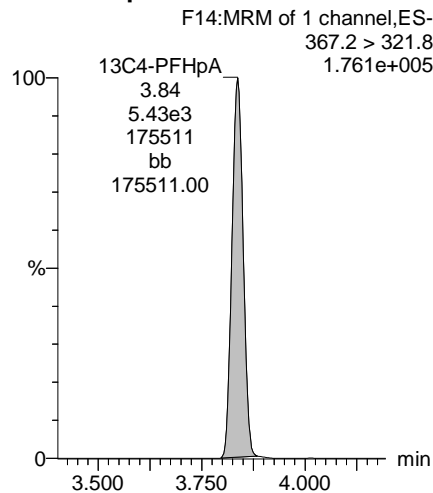
13C3-PFBS



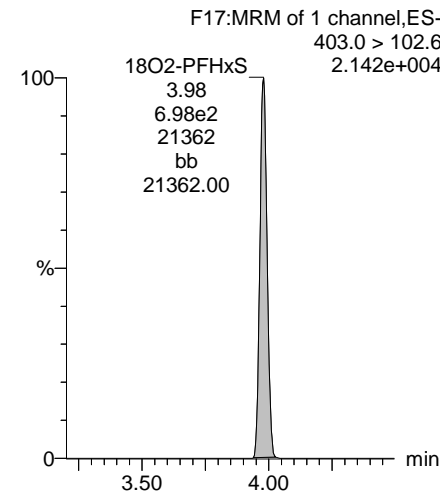
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

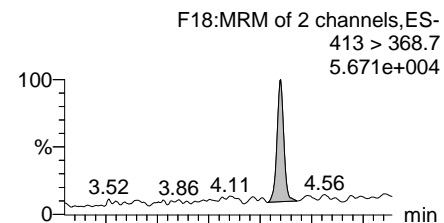


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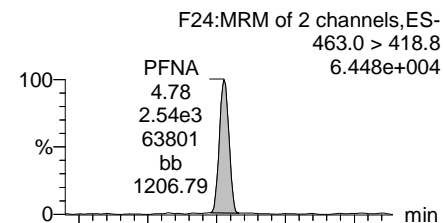
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Printed: Tuesday, January 16, 2018 13:28:23 Pacific Standard Time

Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

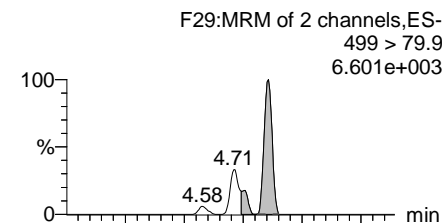
Total PFOA



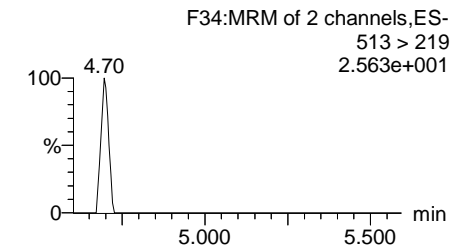
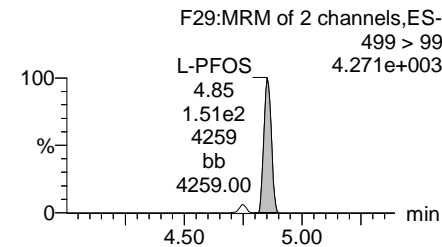
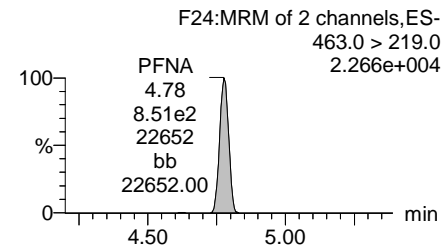
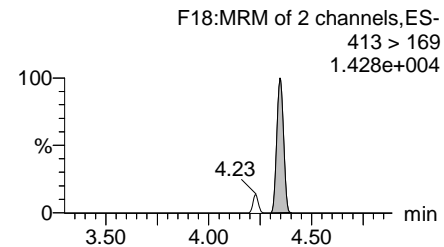
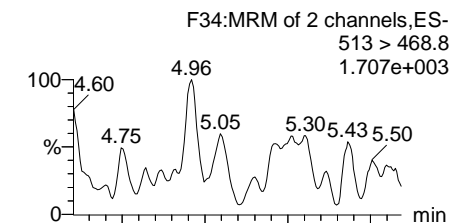
PFNA



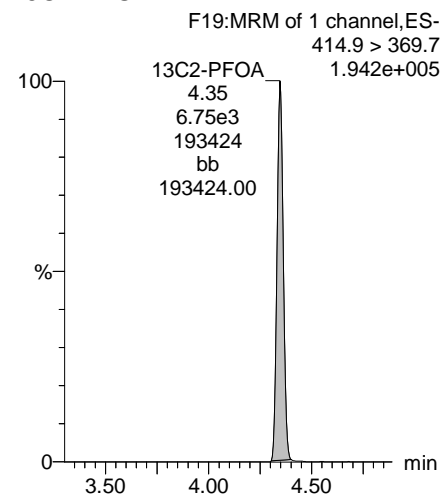
Total PFOS



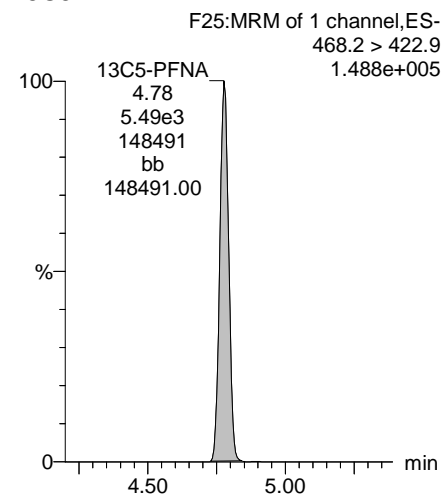
PFDA



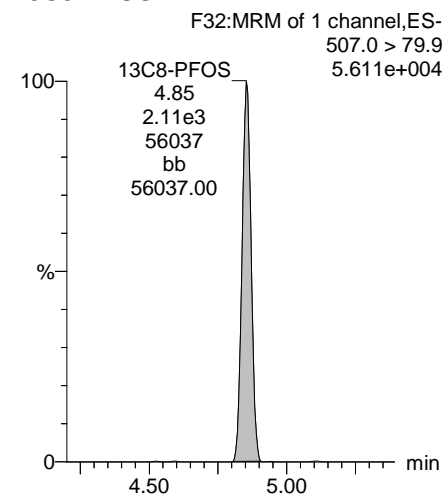
13C2-PFOA



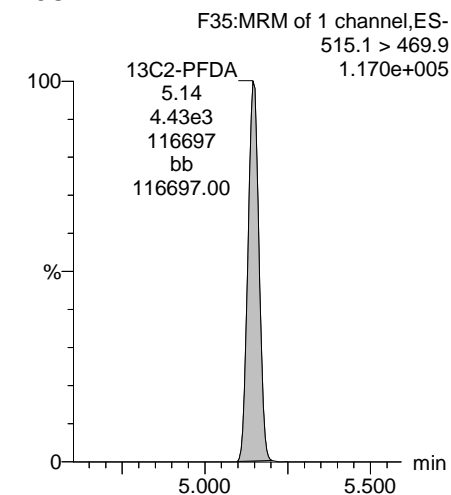
13C5-PFNA



13C8-PFOS



13C2-PFDA



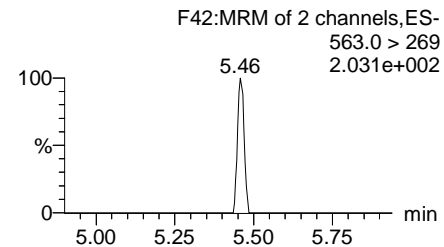
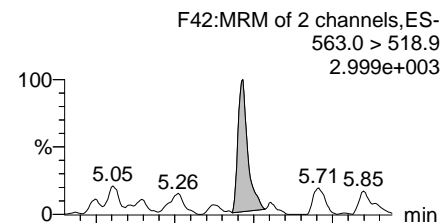
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Last Altered: Tuesday, January 16, 2018 13:27:03 Pacific Standard Time

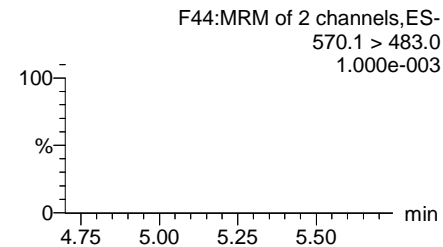
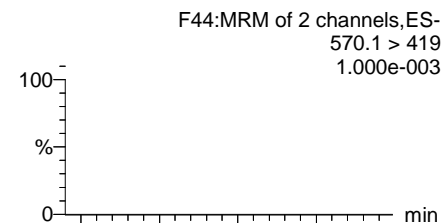
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Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

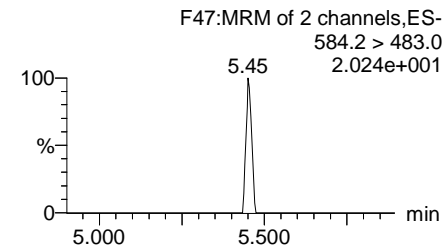
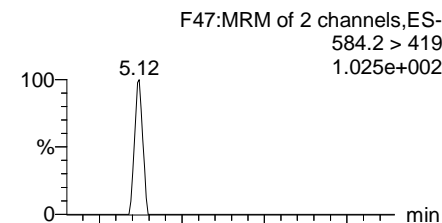
PFUdA



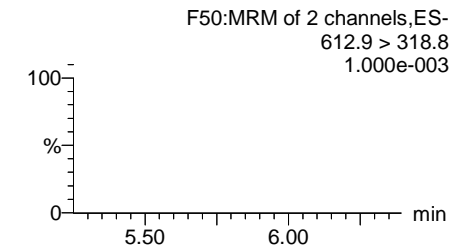
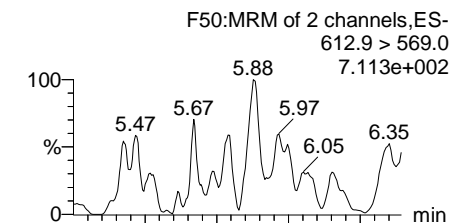
N-MeFOSAA



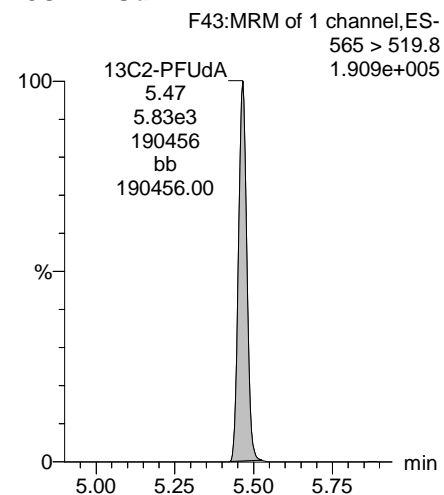
N-EtFOSAA



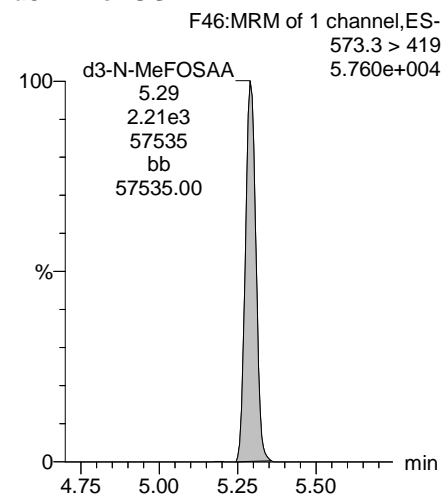
PFDoA



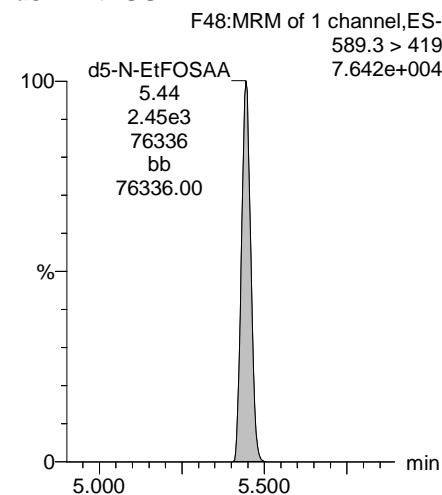
13C2-PFUdA



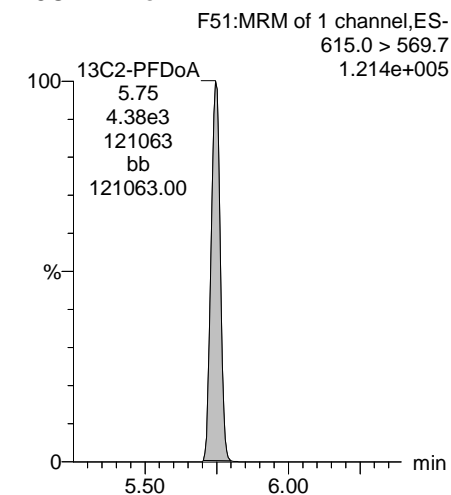
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



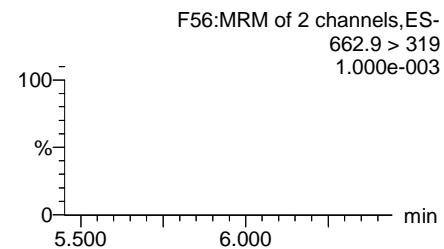
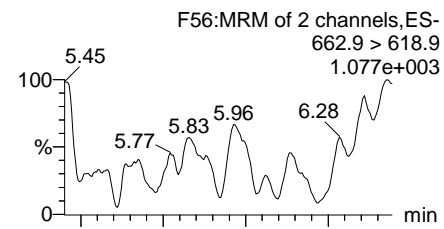
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Last Altered: Tuesday, January 16, 2018 13:27:03 Pacific Standard Time

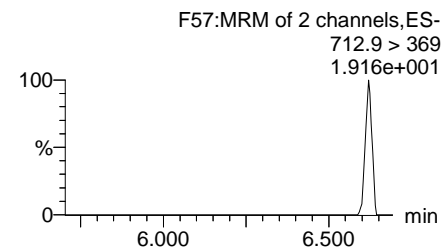
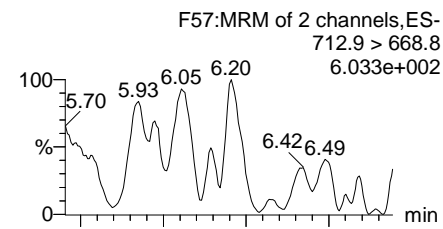
Printed: Tuesday, January 16, 2018 13:28:23 Pacific Standard Time

Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

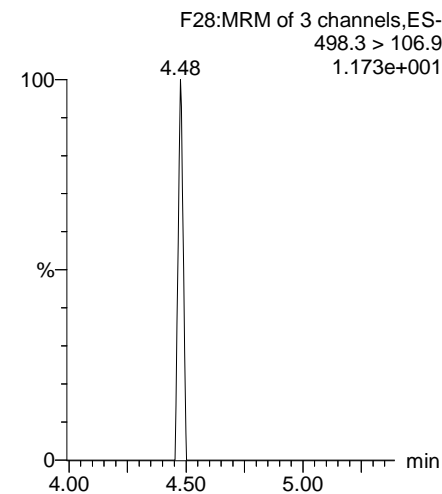
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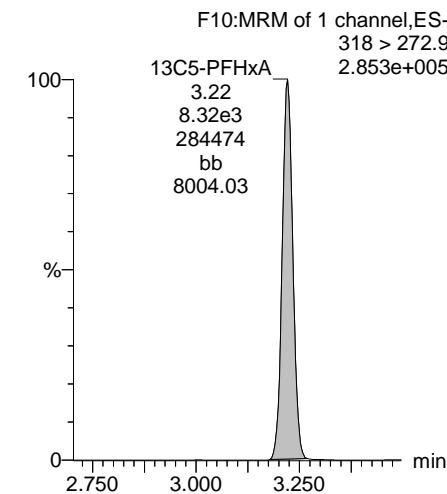
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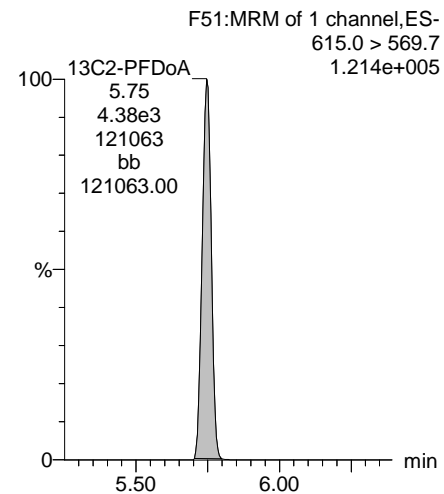
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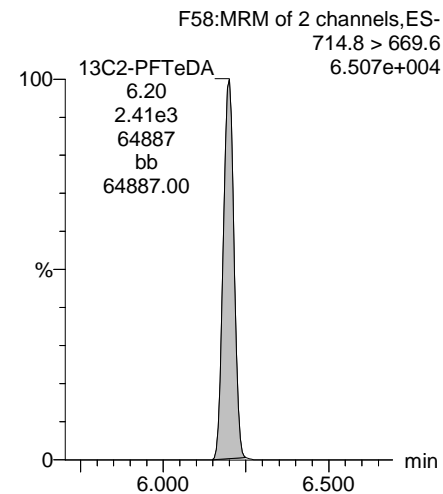
13C5-PFHxA



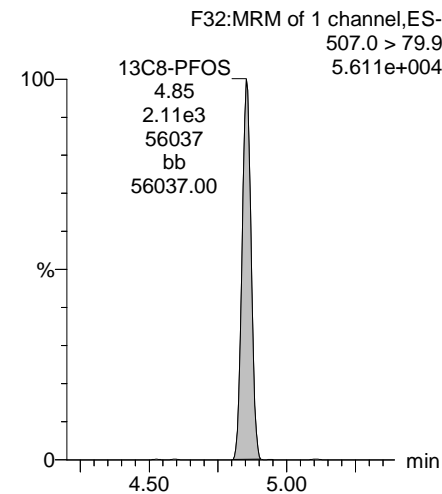
13C2-PFDoA



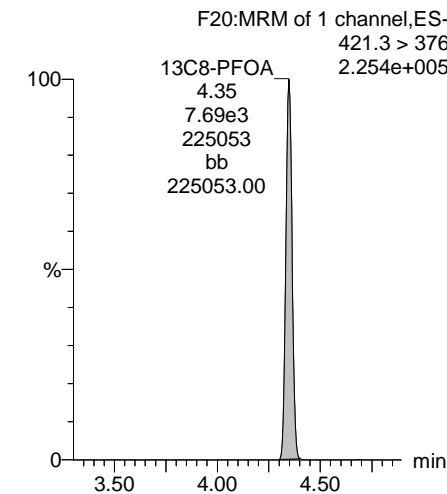
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



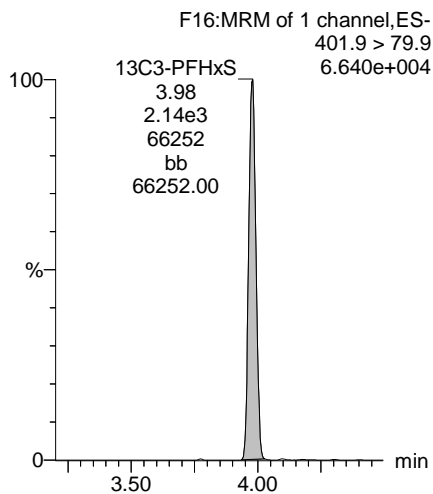
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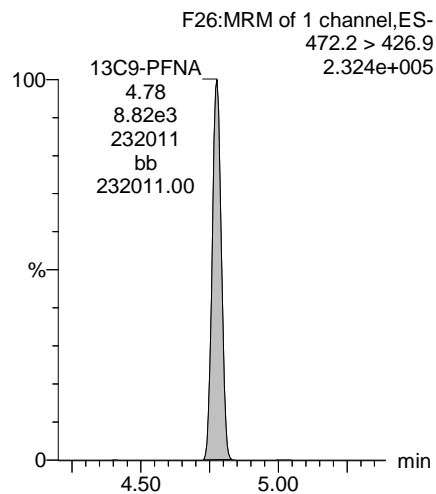
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Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

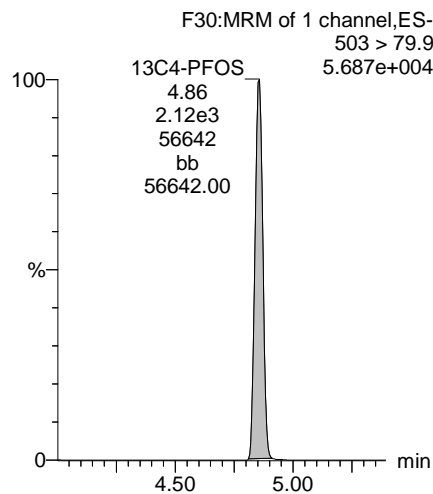
13C3-PFHxS



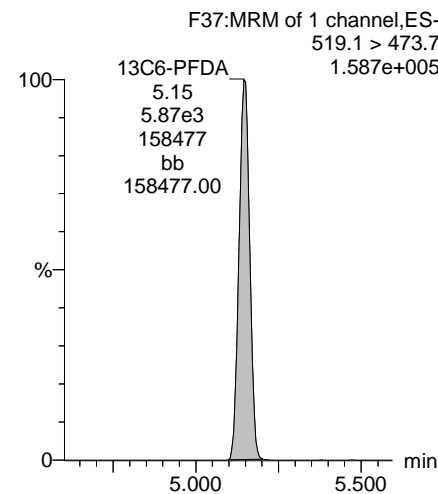
13C9-PFNA



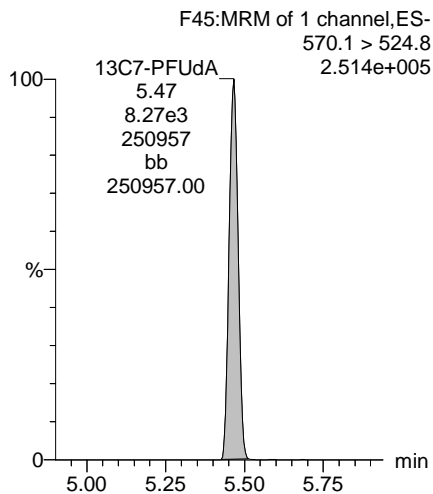
13C4-PFOS



13C6-PFDA



13C7-PFUDa



Dataset: U:\Q4.PRO\results\180115M2\180115M2-108.qld

Last Altered: Friday, January 19, 2018 11:39:26 Pacific Standard Time

Printed: Friday, January 19, 2018 11:39:40 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_108, Date: 16-Jan-2018, Time: 21:07:02, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.94e2	0.241		2.87				
2	4 PFHxA	313.2 > 268.9	9.47e2	2.33e3	0.241		3.36	3.17	2.03	4.7700	
3	5 PFHpA	363.0 > 318.9	7.29e2	5.24e3	0.241		4.00	3.78	1.74	4.9801	
4	6 L-PFHxS	398.9 > 79.6	5.91e1	8.19e2	0.241		3.94	3.93	0.902	1.7006	
5	9 L-PFOA	413 > 368.7	1.99e3	6.33e3	0.241		4.34	4.30	3.93	13.2271	
6	12 PFNA	463.0 > 418.8	2.54e3	5.43e3	0.241		4.94	4.73	5.86	17.9641	
7	14 L-PFOS	499 > 79.9	4.24e2	1.75e3	0.241		5.02	4.82	3.03	11.4858	
8	16 PFDA	513 > 468.8		5.52e3	0.241		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.12e3	0.241		5.45				
10	19 N-EtFOSAA	584.2 > 419		3.24e3	0.241		5.60				
11	20 PFUdA	563.0 > 518.9	1.24e2	5.47e3	0.241		5.62	5.43	0.284	1.6284	
12	22 PFDoA	612.9 > 569.0		3.17e3	0.241		5.91				

See orig. inj

Dataset: U:\Q4.PRO\results\180115M2\180115M2-108.qld

Last Altered: Friday, January 19, 2018 11:39:26 Pacific Standard Time

Printed: Friday, January 19, 2018 11:39:55 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_108, Date: 16-Jan-2018, Time: 21:07:02, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	3.17e3	0.241		6.15				
2	25	PFTeDA	712.9 > 668.8	2.40e3	0.241		6.35				
3	33	13C3-PFBS	302. > 98.8	9.94e2	0.241	0.095	2.87	2.67	1.45	63.1449	121.8
4	34	13C2-PFHxA	315 > 269.8	2.33e3	0.241	0.636	3.36	3.17	3.39	22.0831	106.5
5	35	13C4-PFHpA	367.2 > 321.8	5.24e3	0.241	0.621	4.00	3.78	7.63	50.9727	98.3
6	36	18O2-PFHxS	403.0 > 102.6	8.19e2	0.241	0.336	4.14	3.93	4.02	49.6949	95.8
7	37	13C2-6:2 FTS	429.1 > 408.9	1.43e3	0.241	0.192	4.46	4.25	2.42	52.2334	100.7
8	38	13C2-PFOA	414.9 > 369.7	6.33e3	0.241	1.001	4.50	4.30	10.7	44.3612	85.5
9	39	13C5-PFNA	468.2 > 422.9	5.43e3	0.241	0.811	4.94	4.73	7.98	40.8410	78.8
10	40	13C8-PFOSA	506.1 > 77.7	1.29e3	0.241	0.196	5.00	4.79	2.16	45.6763	88.1
11	41	13C8-PFOS	507.0 > 79.9	1.75e3	0.241	0.862	5.02	4.81	8.70	41.8931	80.8
12	42	13C2-PFDA	515.1 > 469.9	5.52e3	0.241	0.996	5.31	5.10	13.2	54.8796	105.8
13	43	13C2-8:2 FTS	529.1 > 508.7	5.85e2	0.241	0.103	5.28	5.08	0.851	34.2790	66.1
14	44	d3-N-MeFOSAA	573.3 > 419	2.12e3	0.241	0.340	5.45	5.25	3.56	43.4811	83.9
15	45	d5-N-EtFOSAA	589.3 > 419	3.24e3	0.241	0.377	5.60	5.41	5.45	59.9554	115.6
16	46	13C2-PFUdA	565 > 519.8	5.47e3	0.241	0.944	5.62	5.43	9.21	40.4769	78.1
17	47	13C2-PFDoA	615.0 > 569.7	3.17e3	0.241	0.726	5.91	5.71	5.33	30.4294	58.7
18	49	13C2-PFTeDA	714.8 > 669.6	2.40e3	0.241	0.371	6.35	6.17	4.04	45.1133	87.0
19	55	13C5-PFHxA	318 > 272.9	8.59e3	0.241	1.000	3.36	3.16	12.5	51.8543	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.55e3	0.241	1.000	4.14	3.93	12.5	51.8543	100.0
21	57	13C8-PFOA	421.3 > 376	7.39e3	0.241	1.000	4.50	4.30	12.5	51.8543	100.0
22	58	13C9-PFNA	472.2 > 426.9	8.50e3	0.241	1.000	4.94	4.73	12.5	51.8543	100.0
23	59	13C4-PFOS	503 > 79.9	2.51e3	0.241	1.000	5.02	4.82	12.5	51.8543	100.0
24	60	13C6-PFDA	519.1 > 473.7	5.24e3	0.241	1.000	5.31	5.10	12.5	51.8543	100.0
25	61	13C7-PFUdA	570.1 > 524.8	7.43e3	0.241	1.000	5.62	5.43	12.5	51.8543	100.0
26	62	Total PFHxS	398.9 > 79.6	5.91e1	0.241		4.14		0.902	1.7006	
27	63	Total PFOA	413 > 368.7	1.99e3	0.241		4.51		3.93	13.2271	
28	64	Total PFOS	499 > 79.9	4.24e2	0.241		5.02		3.03	11.4858	
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	0.241		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	0.241		5.61		0.000		

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-108.qld

Last Altered: Friday, January 19, 2018 11:39:26 Pacific Standard Time

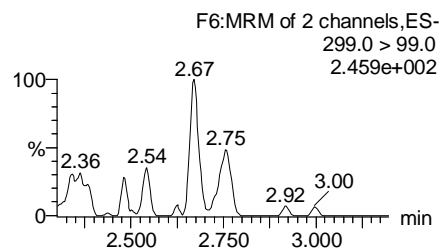
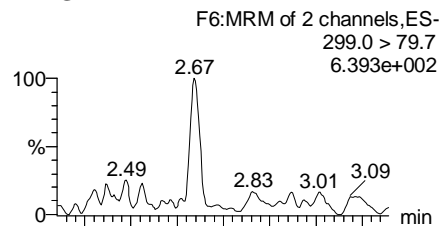
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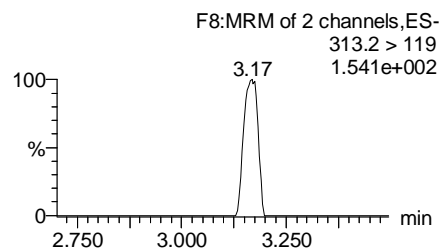
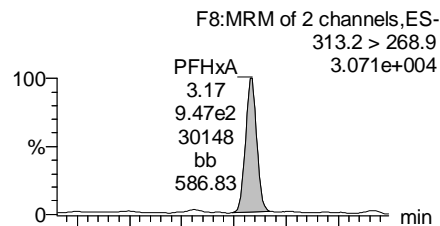
Calibration: U:\Q4.pro\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_108, Date: 16-Jan-2018, Time: 21:07:02, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

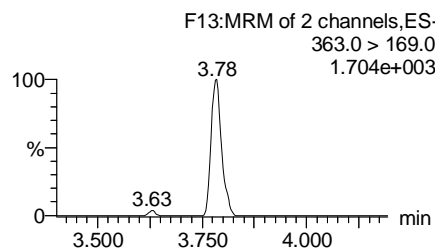
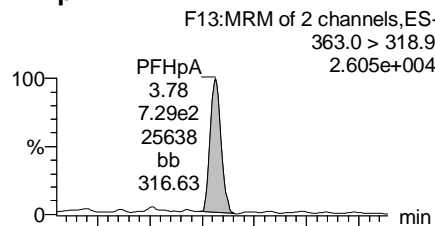
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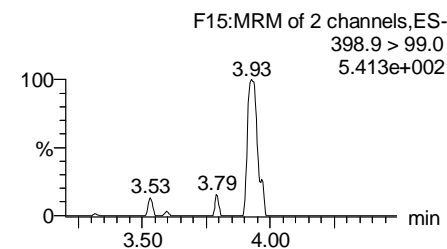
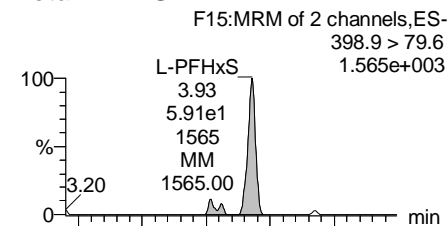
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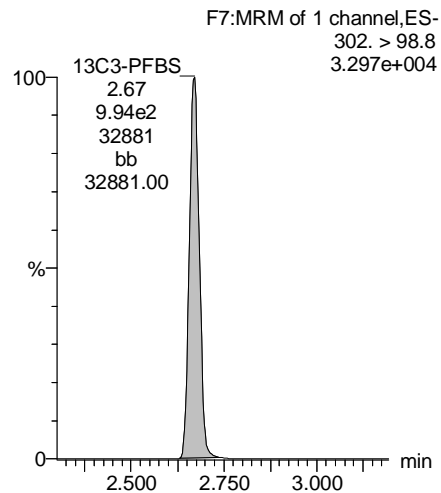
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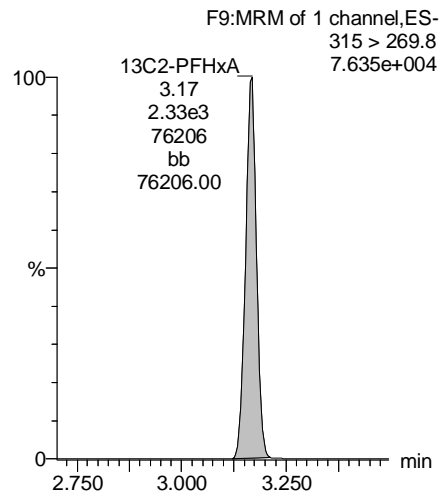
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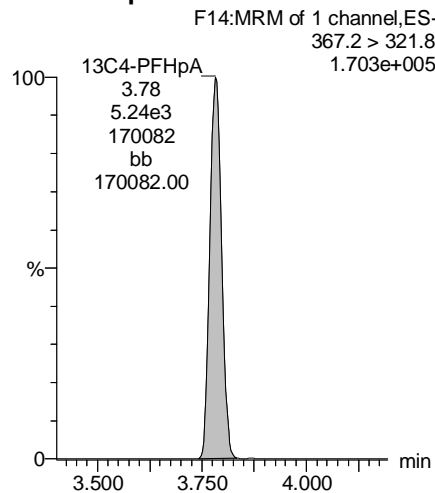
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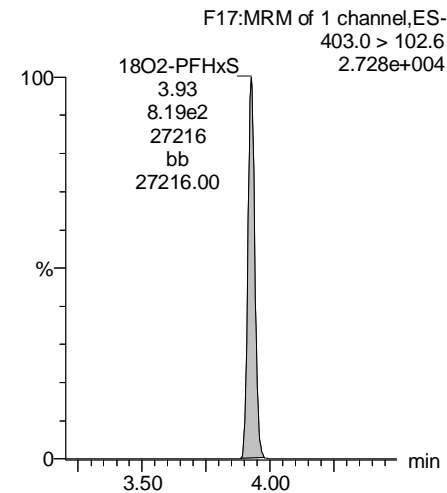
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13C4-PFHpA



18O2-PFHxS



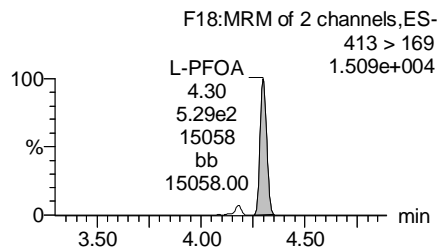
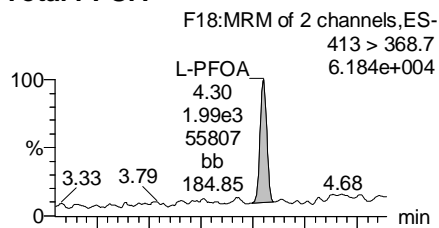
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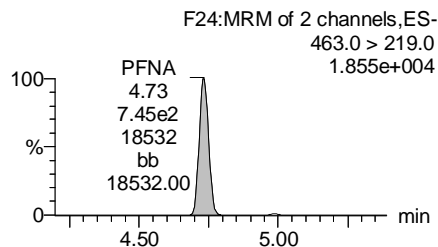
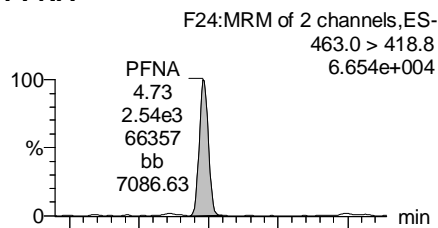
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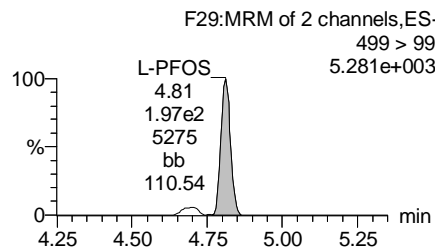
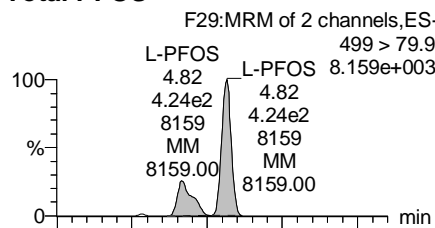
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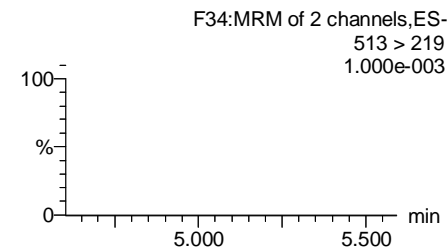
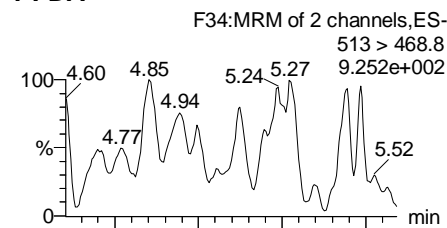
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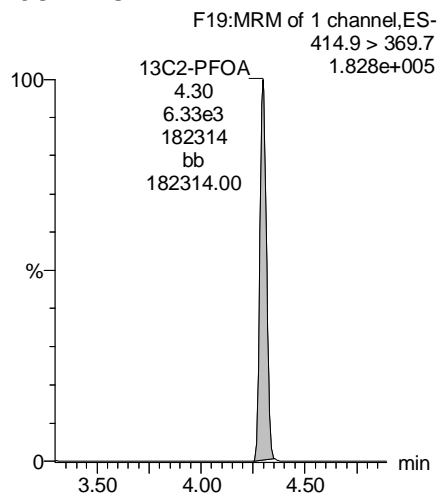
Total PFOS



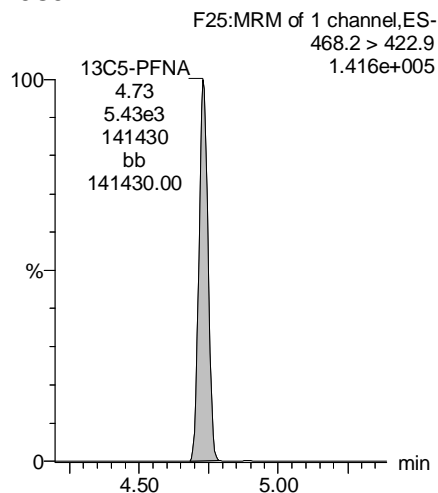
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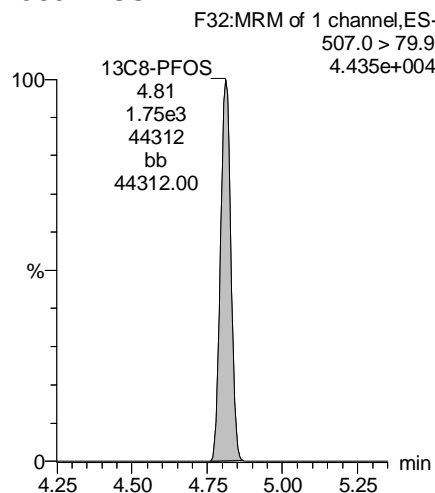
13C2-PFOA



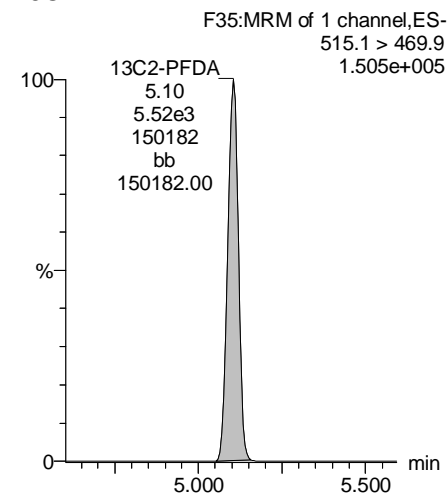
13C5-PFNA



13C8-PFOS



13C2-PFDA



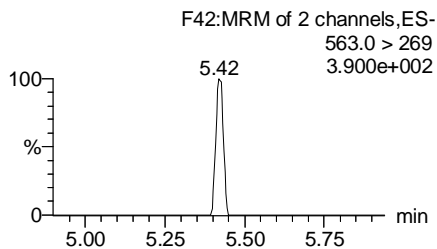
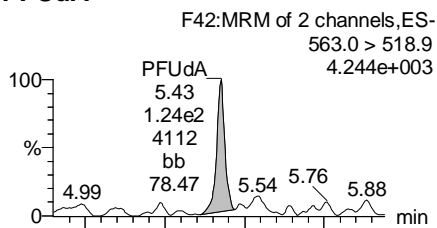
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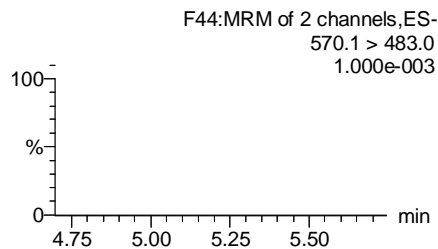
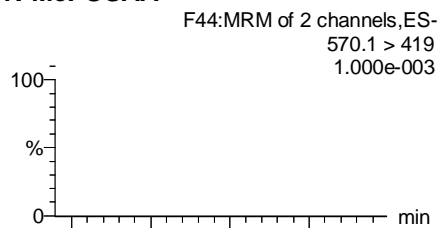
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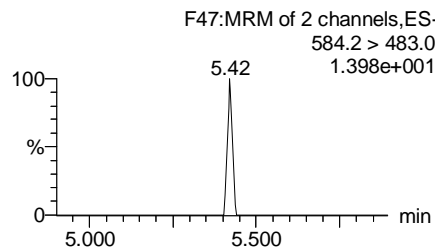
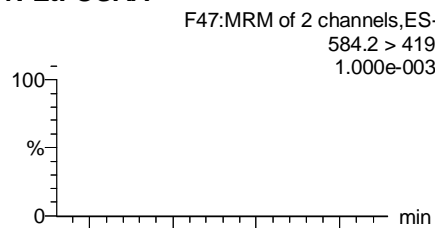
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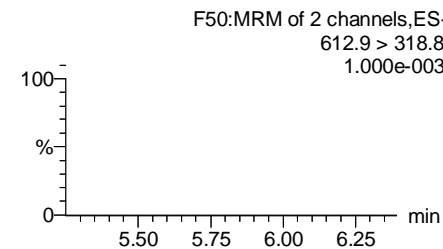
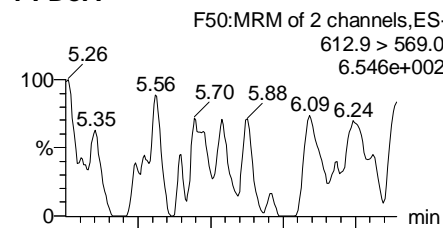
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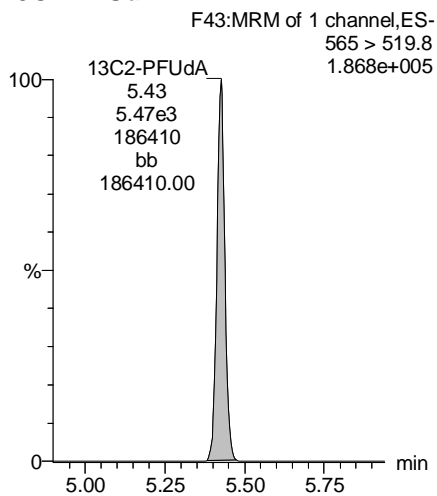
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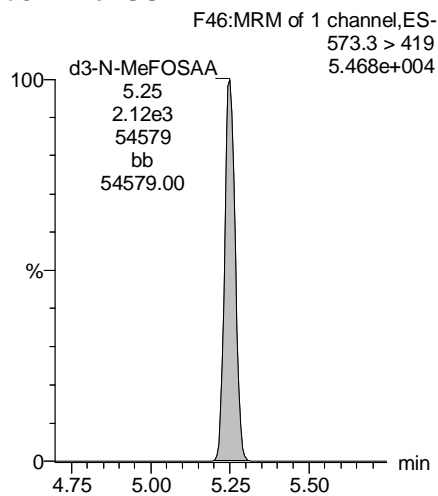
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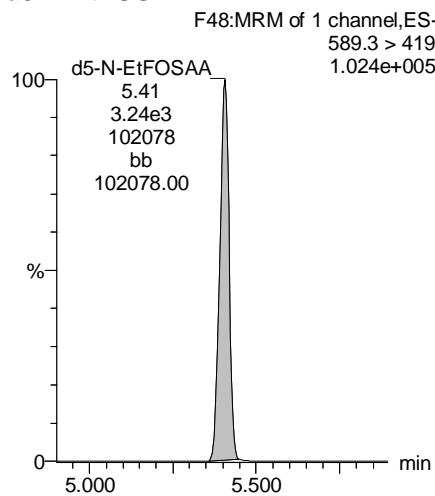
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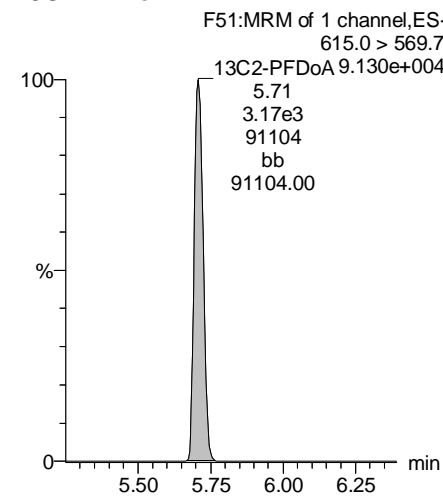
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



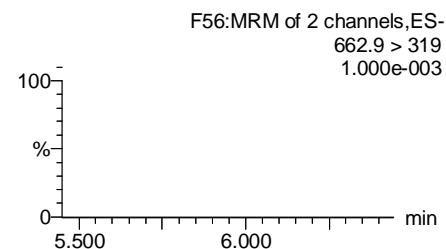
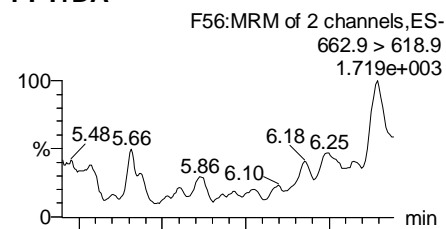
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Last Altered: Friday, January 19, 2018 11:39:26 Pacific Standard Time

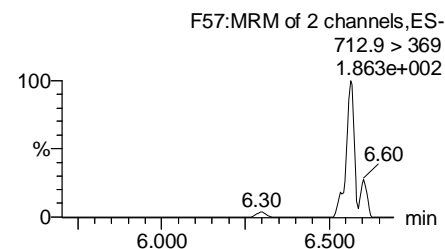
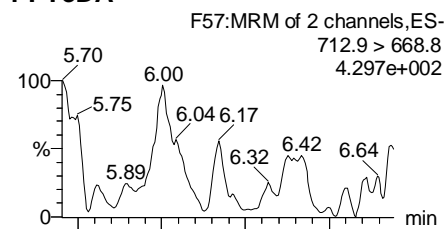
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Name: 180115M2_108, Date: 16-Jan-2018, Time: 21:07:02, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

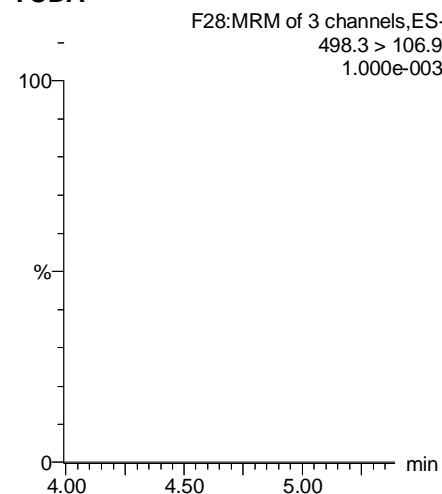
PFTrDA



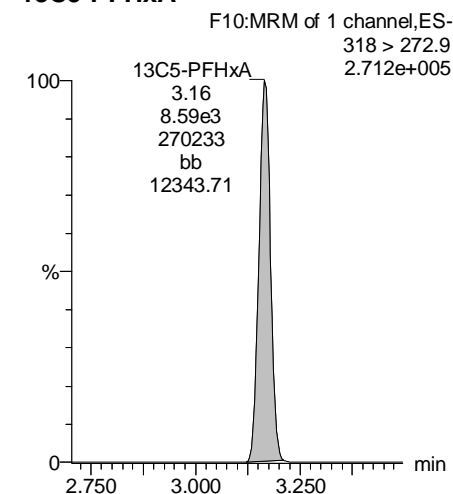
PFTeDA



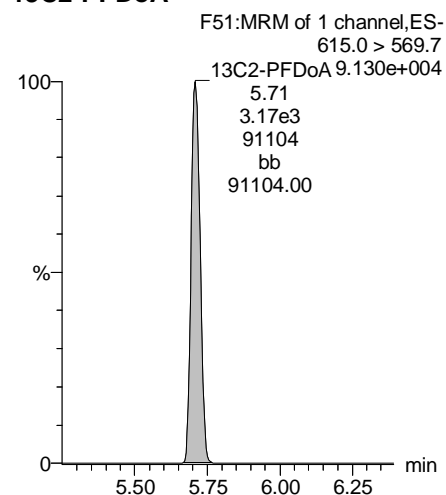
TCDA



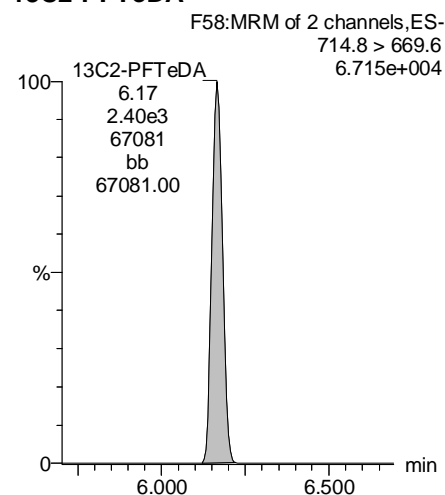
13C5-PFHxA



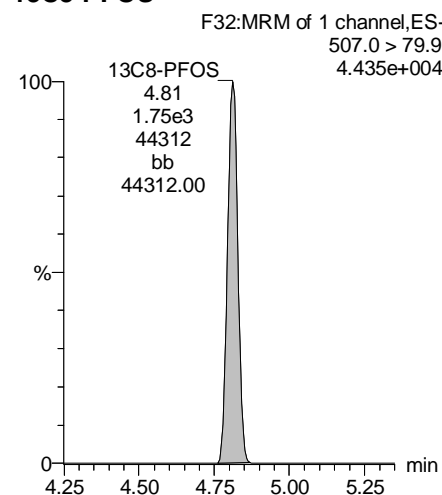
13C2-PFDoA



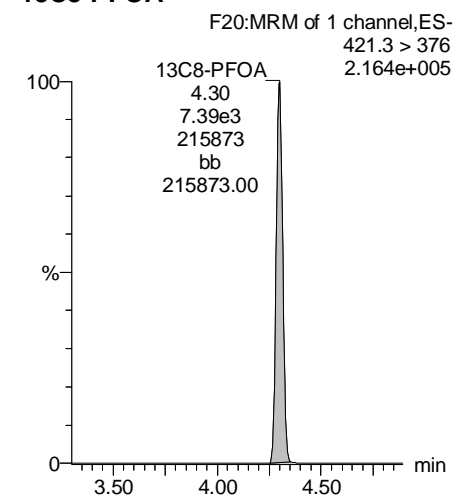
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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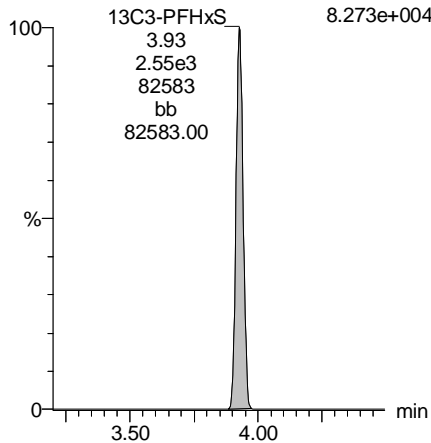
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Printed: Friday, January 19, 2018 11:39:55 Pacific Standard Time

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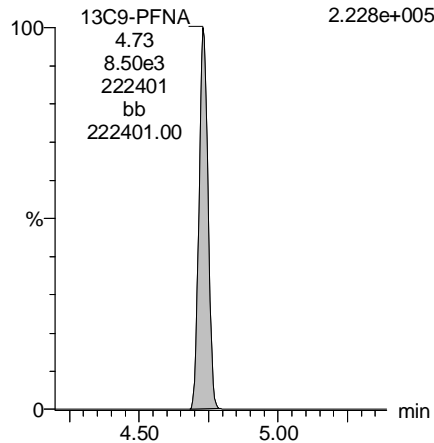
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
8.273e+004



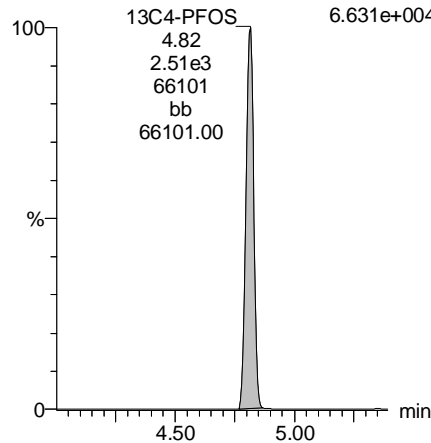
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.228e+005



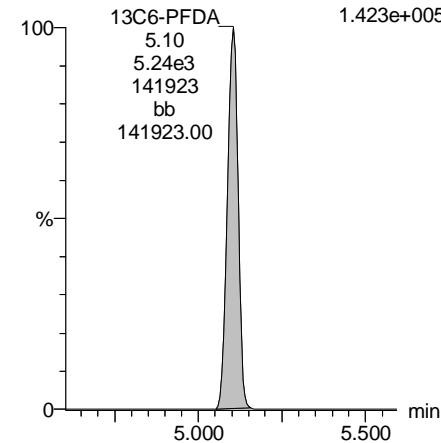
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.631e+004



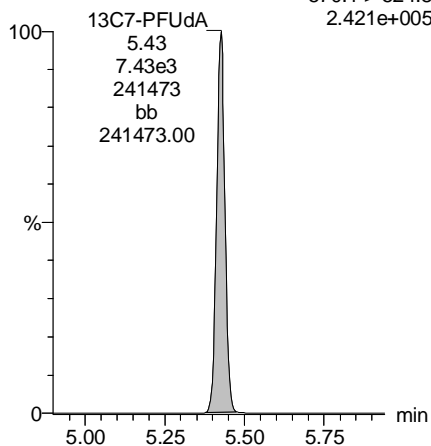
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.423e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.421e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-52.qld

Last Altered: Tuesday, January 16, 2018 13:30:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:30:38 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_52, Date: 16-Jan-2018, Time: 10:05:14, ID: 1701953-05 SA-MW127S-FRB-20171213 0.25506, Description: SA-MW127S-FRB-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	5.31e0	1.17e3	0.255		2.87	2.72	0.0567		
2	4 PFHxA	313.2 > 268.9		2.74e3	0.255		3.36				
3	5 PFHpA	363.0 > 318.9		6.22e3	0.255		4.00				
4	6 L-PFHxS	398.9 > 79.6	3.47e-1	7.92e2	0.255		4.14	3.98	0.00547		
5	9 L-PFOA	413 > 368.7		7.74e3	0.255		4.50				
6	12 PFNA	463.0 > 418.8		8.12e3	0.255		4.94				
7	14 L-PFOS	499 > 79.9		2.55e3	0.255		5.02				
8	16 PFDA	513 > 468.8		6.91e3	0.255		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.99e3	0.255		5.45				
10	19 N-EtFOSAA	584.2 > 419		3.27e3	0.255		5.60				
11	20 PFUdA	563.0 > 518.9	3.16e1	6.40e3	0.255		5.62	5.47	0.0617	0.9006	
12	22 PFDoA	612.9 > 569.0		4.41e3	0.255		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-52.qld

Last Altered: Tuesday, January 16, 2018 13:30:05 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:03:57 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_52, Date: 16-Jan-2018, Time: 10:05:14, ID: 1701953-05 SA-MW127S-FRB-20171213 0.25506, Description: SA-MW127S-FRB-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	4.41e3	0.255		6.15					
2	25	PFTeDA	712.9 > 668.8	2.34e3	0.255		6.35					
3	33	13C3-PFBS	302. > 98.8	1.17e3	1.05e4	0.255	0.095	2.87	2.72	1.40	57.6100	117.6
4	34	13C2-PFHxA	315 > 269.8	2.74e3	1.05e4	0.255	0.636	3.36	3.22	3.26	20.0906	102.5
5	35	13C4-PFHpA	367.2 > 321.8	6.22e3	1.05e4	0.255	0.621	4.00	3.84	7.42	46.8395	95.6
6	36	18O2-PFHxS	403.0 > 102.6	7.92e2	2.56e3	0.255	0.336	4.14	3.98	3.87	45.1552	92.1
7	37	13C2-6:2 FTS	429.1 > 408.9	2.02e3	9.97e3	0.255	0.192	4.46	4.29	2.53	51.4958	105.1
8	38	13C2-PFOA	414.9 > 369.7	7.74e3	9.97e3	0.255	1.001	4.50	4.35	9.70	37.9844	77.5
9	39	13C5-PFNA	468.2 > 422.9	8.12e3	1.08e4	0.255	0.811	4.94	4.78	9.39	45.4010	92.6
10	40	13C8-PFOA	506.1 > 77.7	1.23e3	8.61e3	0.255	0.196	5.00	4.84	1.78	35.5989	72.6
11	41	13C8-PFOS	507.0 > 79.9	2.55e3	3.45e3	0.255	0.862	5.02	4.86	9.25	42.0898	85.9
12	42	13C2-PFDA	515.1 > 469.9	6.91e3	6.59e3	0.255	0.996	5.31	5.15	13.1	51.5749	105.2
13	43	13C2-8:2 FTS	529.1 > 508.7	8.37e2	1.05e4	0.255	0.103	5.28	5.12	0.998	38.0020	77.5
14	44	d3-N-MeFOSAA	573.3 > 419	2.99e3	8.61e3	0.255	0.340	5.45	5.29	4.34	50.0770	102.2
15	45	d5-N-EtFOSAA	589.3 > 419	3.27e3	8.61e3	0.255	0.377	5.60	5.44	4.74	49.3502	100.7
16	46	13C2-PFUdA	565 > 519.8	6.40e3	8.61e3	0.255	0.944	5.62	5.47	9.28	38.5766	78.7
17	47	13C2-PFDoA	615.0 > 569.7	4.41e3	8.61e3	0.255	0.726	5.91	5.75	6.40	34.5767	70.6
18	49	13C2-PFTeDA	714.8 > 669.6	2.34e3	8.61e3	0.255	0.371	6.35	6.20	3.40	35.8552	73.2
19	55	13C5-PFHxA	318 > 272.9	1.05e4	1.05e4	0.255	1.000	3.36	3.22	12.5	49.0081	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.56e3	2.56e3	0.255	1.000	4.14	3.98	12.5	49.0081	100.0
21	57	13C8-PFOA	421.3 > 376	9.97e3	9.97e3	0.255	1.000	4.50	4.35	12.5	49.0081	100.0
22	58	13C9-PFNA	472.2 > 426.9	1.08e4	1.08e4	0.255	1.000	4.94	4.78	12.5	49.0081	100.0
23	59	13C4-PFOS	503 > 79.9	3.45e3	3.45e3	0.255	1.000	5.02	4.85	12.5	49.0081	100.0
24	60	13C6-PFDA	519.1 > 473.7	6.59e3	6.59e3	0.255	1.000	5.31	5.15	12.5	49.0081	100.0
25	61	13C7-PFUdA	570.1 > 524.8	8.61e3	8.61e3	0.255	1.000	5.62	5.47	12.5	49.0081	100.0
26	62	Total PFHxS	398.9 > 79.6	3.47e-1	7.92e2	0.255		4.14		0.000		
27	63	Total PFOA	413 > 368.7	0.00e0	7.74e3	0.255		4.51		0.000		
28	64	Total PFOS	499 > 79.9	0.00e0	2.55e3	0.255		5.02		0.000		
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.99e3	0.255		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.27e3	0.255		5.61		0.000		

Dataset: U:\Q4.PRO\results\180115M2\180115M2-52.qld

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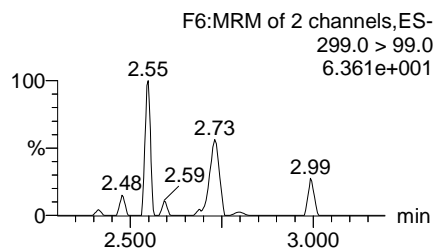
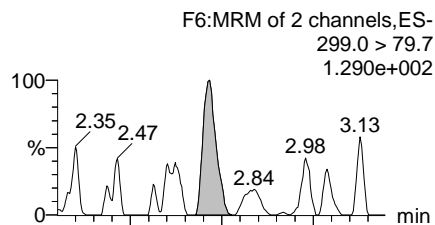
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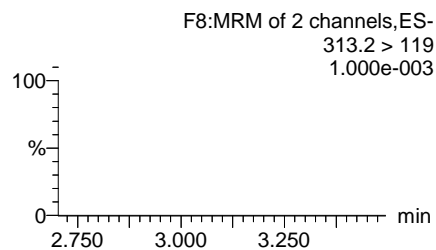
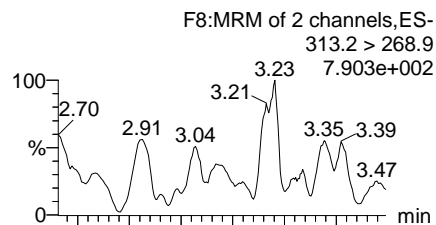
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_52, Date: 16-Jan-2018, Time: 10:05:14, ID: 1701953-05 SA-MW127S-FRB-20171213 0.25506, Description: SA-MW127S-FRB-20171213

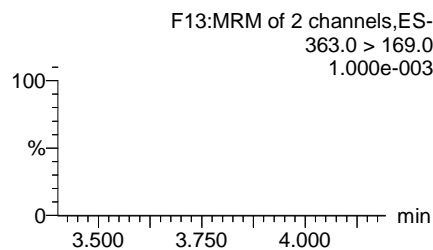
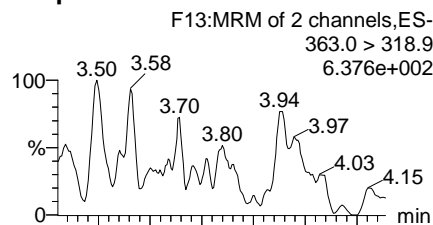
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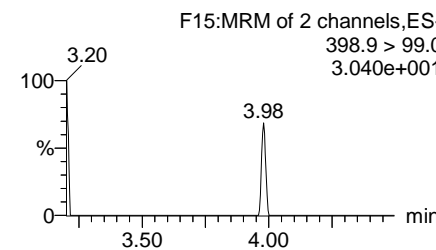
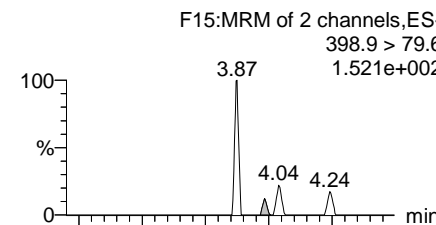
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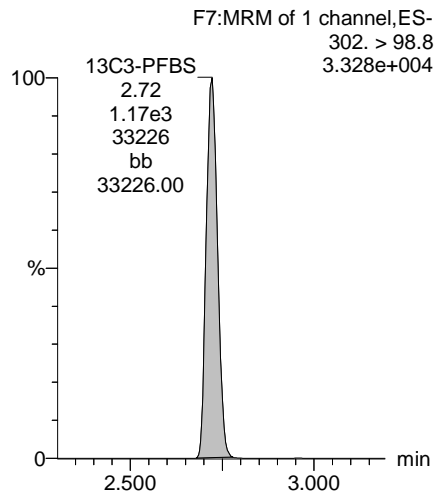
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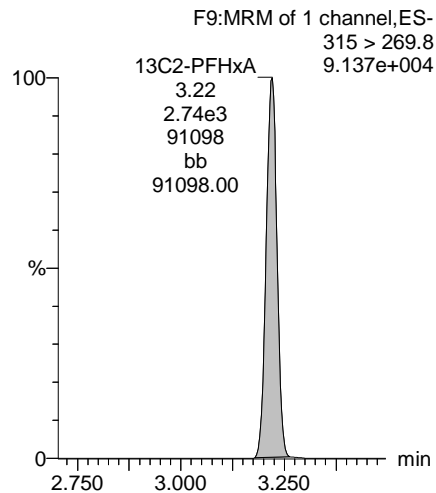
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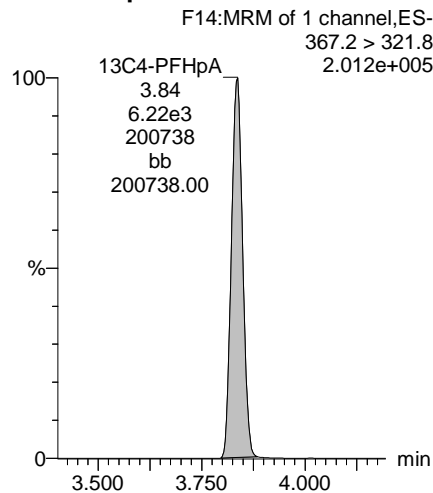
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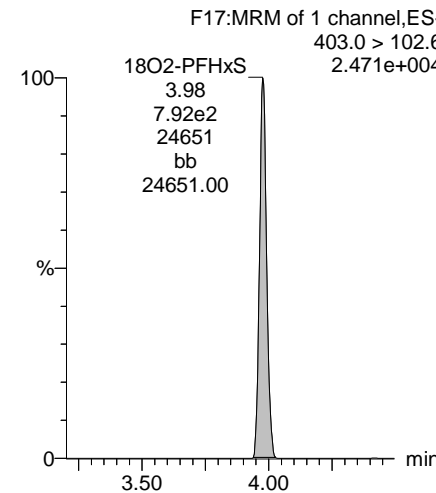
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



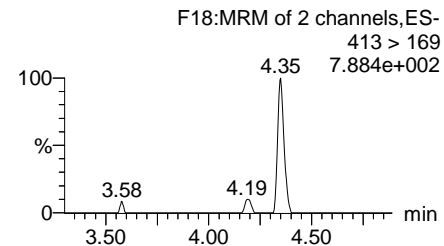
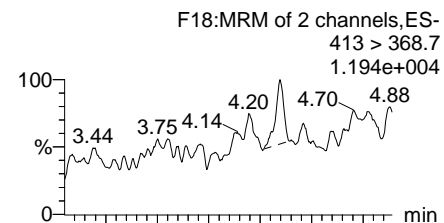
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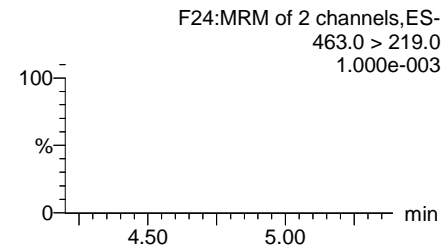
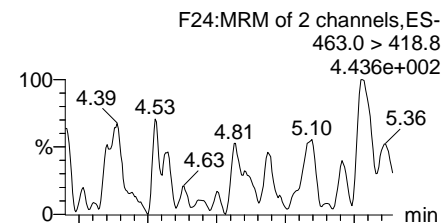
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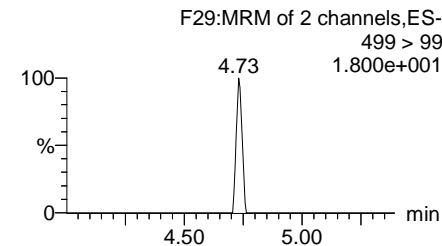
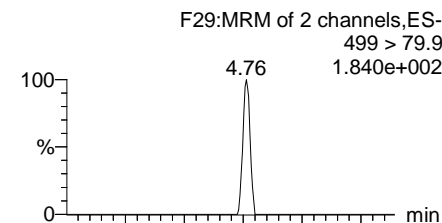
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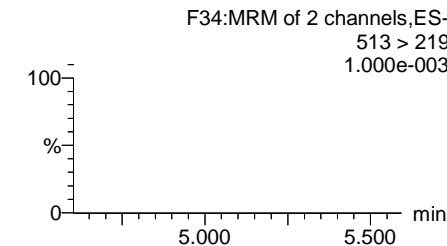
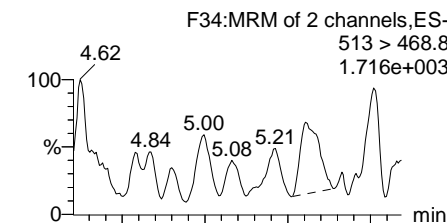
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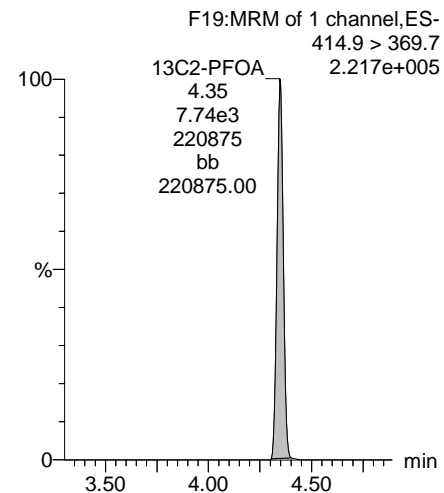
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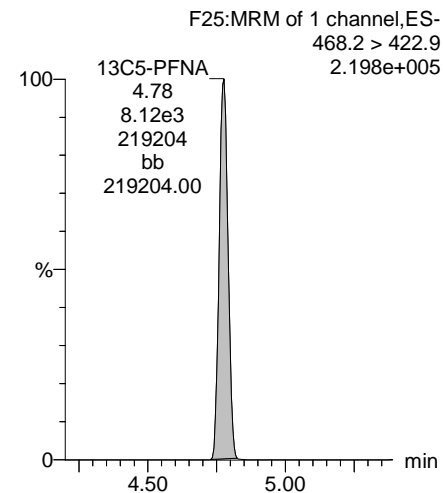
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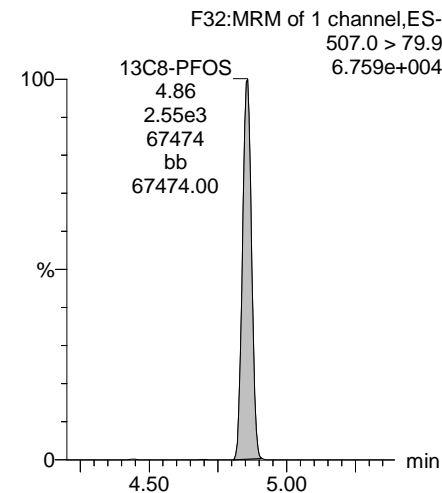
13C2-PFOA



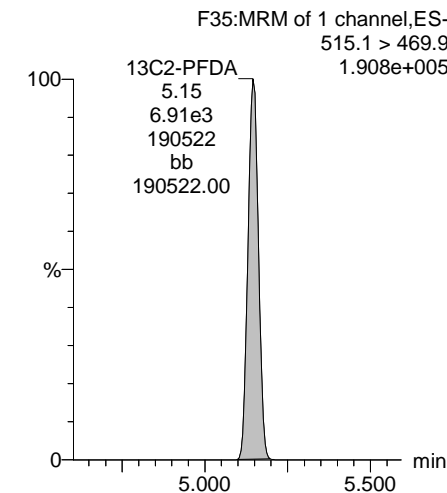
13C5-PFNA



13C8-PFOS



13C2-PFDA

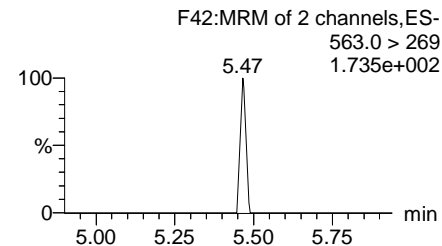
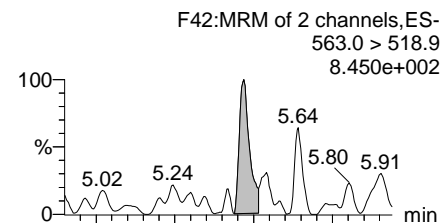


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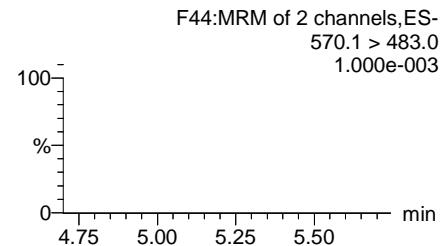
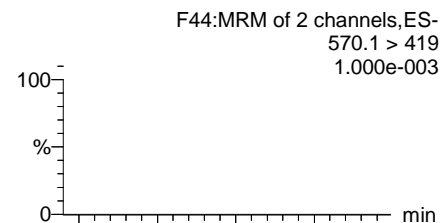
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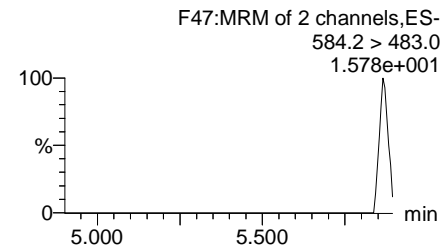
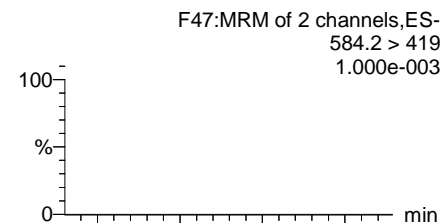
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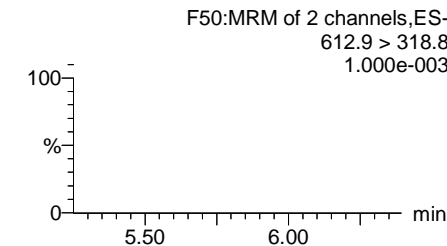
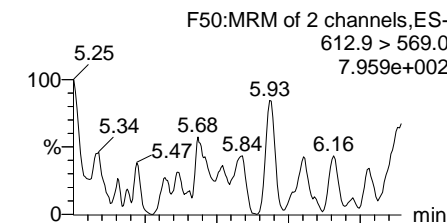
N-MeFOSAA



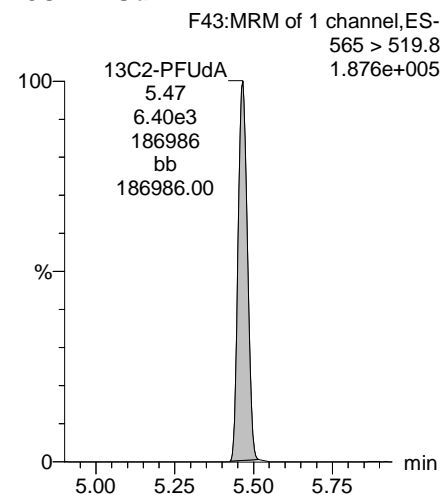
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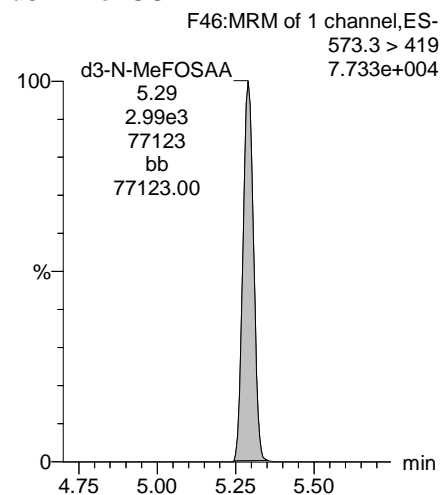
PFDoA



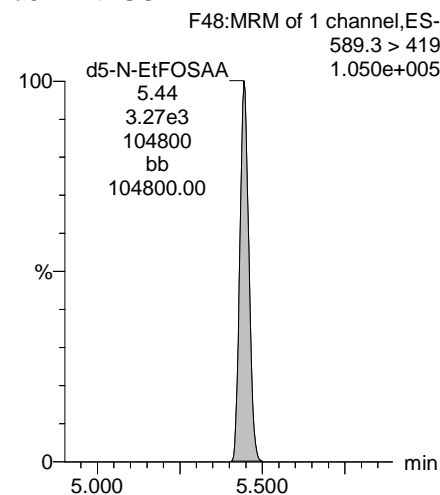
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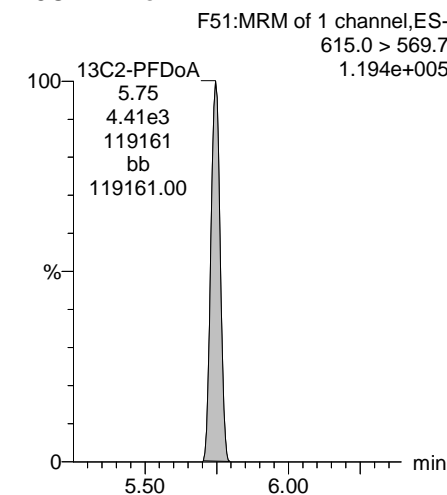
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA

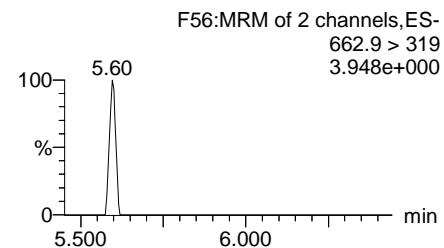
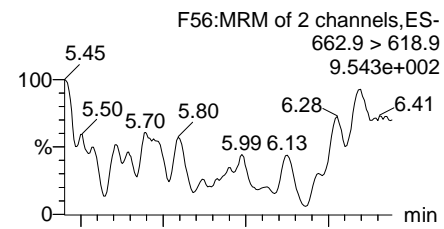


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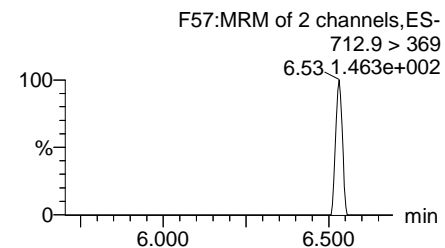
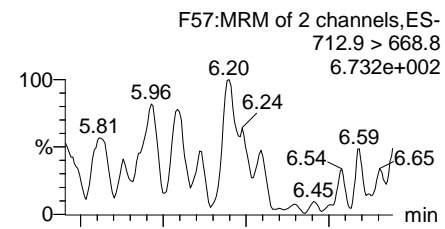
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Name: 180115M2_52, Date: 16-Jan-2018, Time: 10:05:14, ID: 1701953-05 SA-MW127S-FRB-20171213 0.25506, Description: SA-MW127S-FRB-20171213

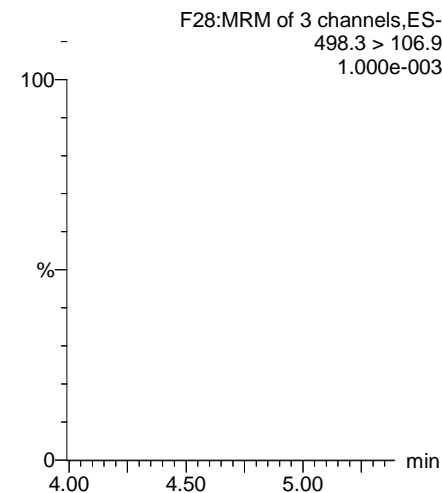
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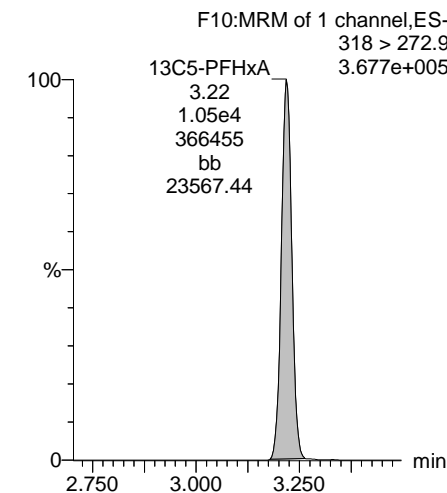
PFTeDA



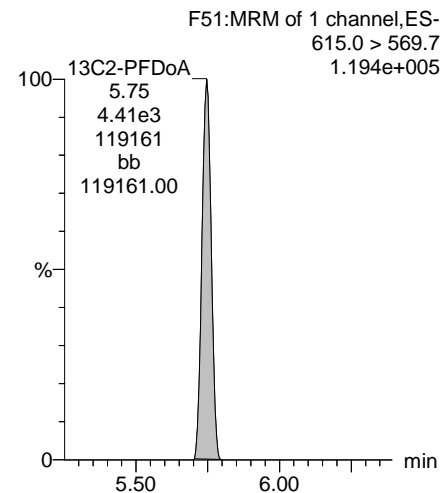
TCDA



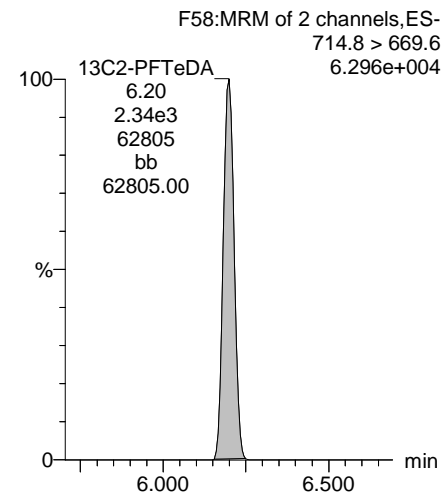
13C5-PFHxA



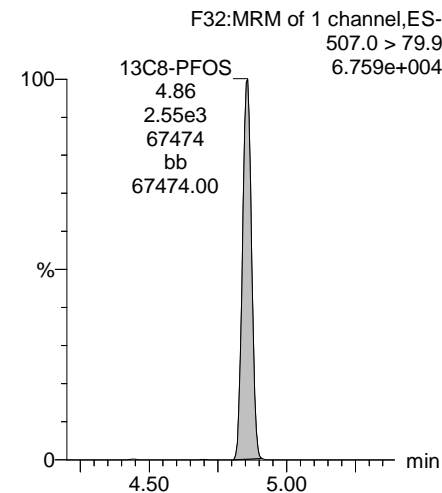
13C2-PFDoA



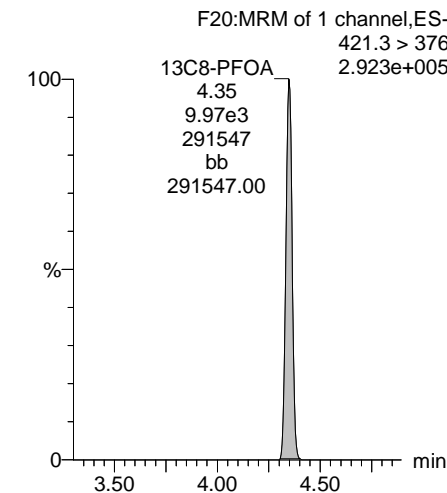
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

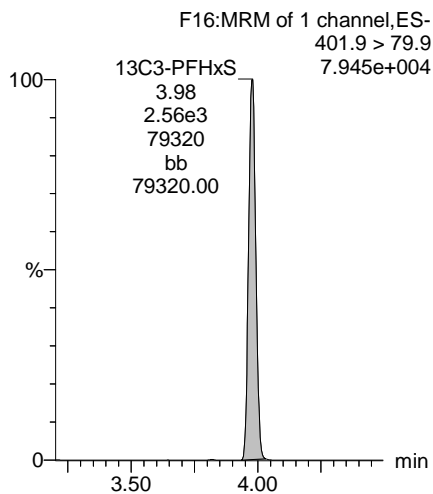


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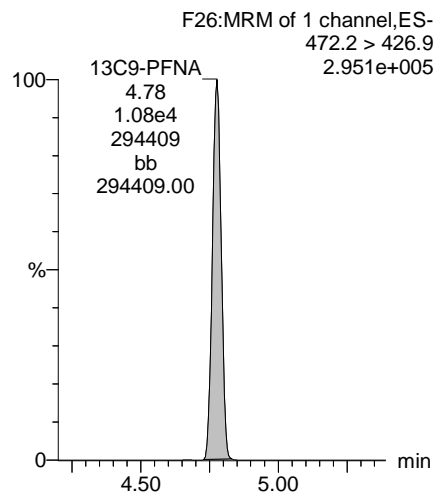
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Name: 180115M2_52, Date: 16-Jan-2018, Time: 10:05:14, ID: 1701953-05 SA-MW127S-FRB-20171213 0.25506, Description: SA-MW127S-FRB-20171213

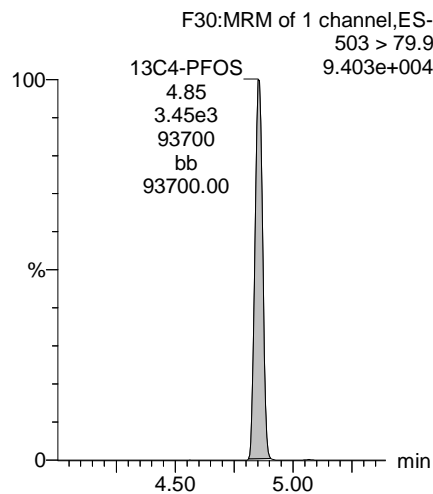
13C3-PFHxS



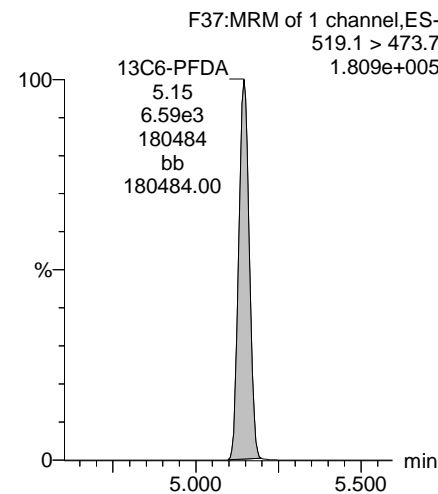
13C9-PFNA



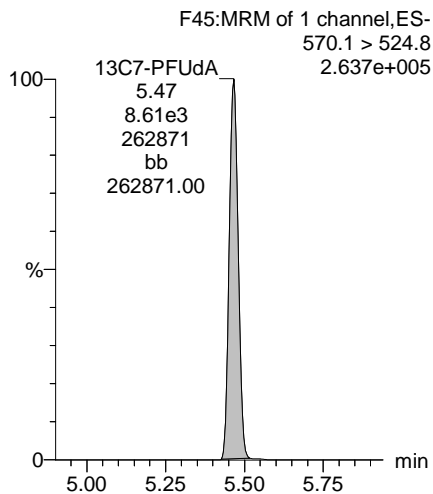
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-53.qld

Last Altered: Tuesday, January 16, 2018 13:34:09 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:34:33 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_53, Date: 16-Jan-2018, Time: 10:16:50, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		9.59e2	0.258		2.87				
2	4	PFHxA	313.2 > 268.9		2.21e3	0.258		3.36				
3	5	PFHpA	363.0 > 318.9		5.51e3	0.258		4.00				
4	6	L-PFHxS	398.9 > 79.6		5.87e2	0.258		4.14				
5	9	L-PFOA	413 > 368.7		6.61e3	0.258		4.50				
6	12	PFNA	463.0 > 418.8		6.99e3	0.258		4.94				
7	14	L-PFOS	499 > 79.9		2.34e3	0.258		5.02				
8	16	PFDA	513 > 468.8		5.48e3	0.258		5.31				
9	18	N-MeFOSAA	570.1 > 419		2.37e3	0.258		5.45				
10	19	N-EtFOSAA	584.2 > 419		2.35e3	0.258		5.60				
11	20	PFUdA	563.0 > 518.9		6.67e3	0.258		5.62				
12	22	PFDoA	612.9 > 569.0		4.09e3	0.258		5.91				

Use only.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-53.qld

Last Altered: Tuesday, January 16, 2018 13:34:09 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:04:29 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_53, Date: 16-Jan-2018, Time: 10:16:50, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.09e3	0.258		6.15				
2	25 PFTeDA	712.9 > 668.8		2.50e3	0.258		6.35				
3	33 13C3-PFBS	302. > 98.8	9.59e2	8.73e3	0.258	0.095	2.87	2.72	1.37	56.1024	115.7
4	34 13C2-PFHxA	315 > 269.8	2.21e3	8.73e3	0.258	0.636	3.36	3.22	3.16	19.2723	99.3
5	35 13C4-PFHpA	367.2 > 321.8	5.51e3	8.73e3	0.258	0.621	4.00	3.84	7.90	49.3589	101.8
6	36 18O2-PFHxS	403.0 > 102.6	5.87e2	2.15e3	0.258	0.336	4.14	3.98	3.42	39.4772	81.4
7	37 13C2-6:2 FTS	429.1 > 408.9	1.65e3	7.01e3	0.258	0.192	4.46	4.29	2.94	59.2587	122.2
8	38 13C2-PFOA	414.9 > 369.7	6.61e3	7.01e3	0.258	1.001	4.50	4.35	11.8	45.6595	94.1
9	39 13C5-PFNA	468.2 > 422.9	6.99e3	8.48e3	0.258	0.811	4.94	4.78	10.3	49.2796	101.6
10	40 13C8-PFOA	506.1 > 77.7	1.35e3	7.45e3	0.258	0.196	5.00	4.84	2.26	44.6373	92.0
11	41 13C8-PFOS	507.0 > 79.9	2.34e3	2.25e3	0.258	0.862	5.02	4.86	13.0	58.4974	120.6
12	42 13C2-PFDA	515.1 > 469.9	5.48e3	5.73e3	0.258	0.996	5.31	5.14	11.9	46.5612	96.0
13	43 13C2-8:2 FTS	529.1 > 508.7	6.81e2	8.73e3	0.258	0.103	5.28	5.12	0.975	36.7613	75.8
14	44 d3-N-MeFOSAA	573.3 > 419	2.37e3	7.45e3	0.258	0.340	5.45	5.29	3.97	45.3597	93.5
15	45 d5-N-EtFOSAA	589.3 > 419	2.35e3	7.45e3	0.258	0.377	5.60	5.45	3.94	40.5767	83.6
16	46 13C2-PFUdA	565 > 519.8	6.67e3	7.45e3	0.258	0.944	5.62	5.47	11.2	46.0125	94.9
17	47 13C2-PFDoA	615.0 > 569.7	4.09e3	7.45e3	0.258	0.726	5.91	5.75	6.86	36.6360	75.5
18	49 13C2-PFTeDA	714.8 > 669.6	2.50e3	7.45e3	0.258	0.371	6.35	6.20	4.20	43.9239	90.5
19	55 13C5-PFHxA	318 > 272.9	8.73e3	8.73e3	0.258	1.000	3.36	3.22	12.5	48.5079	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.15e3	2.15e3	0.258	1.000	4.14	3.98	12.5	48.5079	100.0
21	57 13C8-PFOA	421.3 > 376	7.01e3	7.01e3	0.258	1.000	4.50	4.35	12.5	48.5079	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.48e3	8.48e3	0.258	1.000	4.94	4.78	12.5	48.5079	100.0
23	59 13C4-PFOS	503 > 79.9	2.25e3	2.25e3	0.258	1.000	5.02	4.86	12.5	48.5079	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.73e3	5.73e3	0.258	1.000	5.31	5.15	12.5	48.5079	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.45e3	7.45e3	0.258	1.000	5.62	5.47	12.5	48.5079	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	5.87e2	0.258		4.14		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	6.61e3	0.258		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	2.34e3	0.258		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.37e3	0.258		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.35e3	0.258		5.61		0.000		

Use only

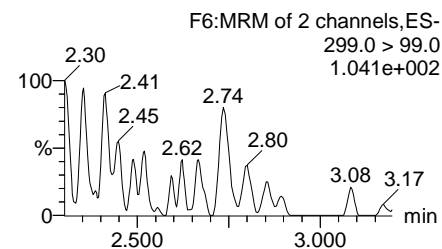
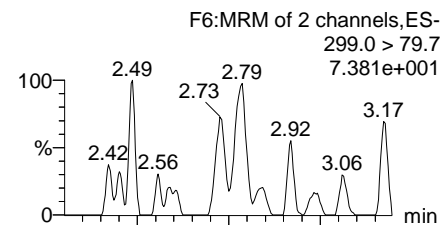
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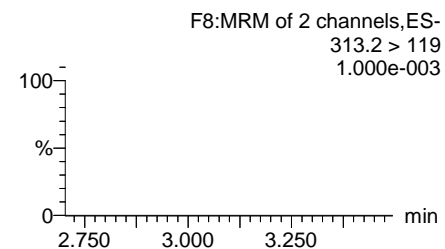
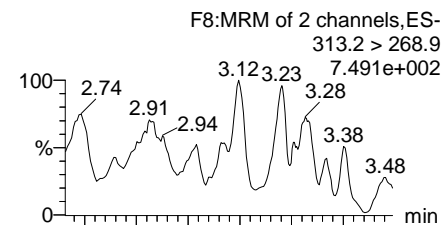
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Name: 180115M2_53, Date: 16-Jan-2018, Time: 10:16:50, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

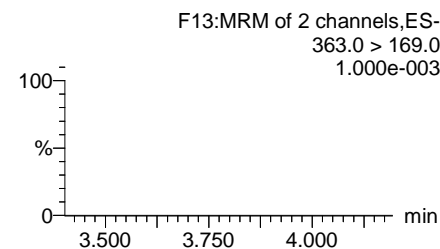
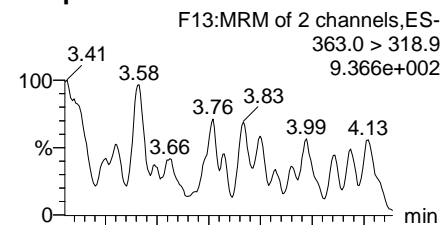
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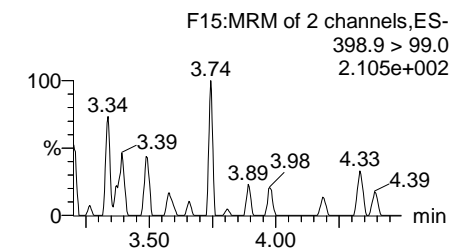
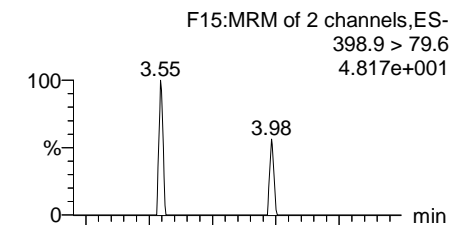
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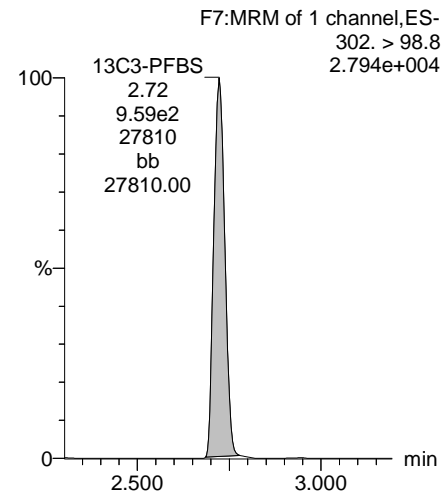
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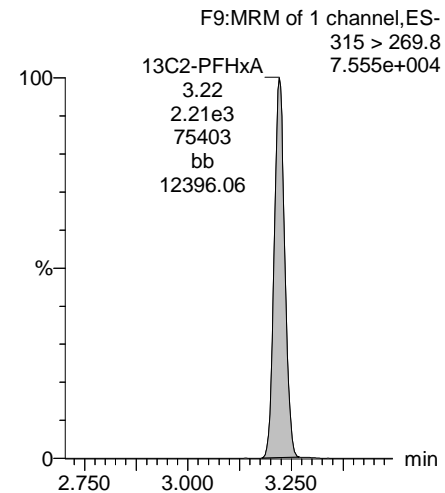
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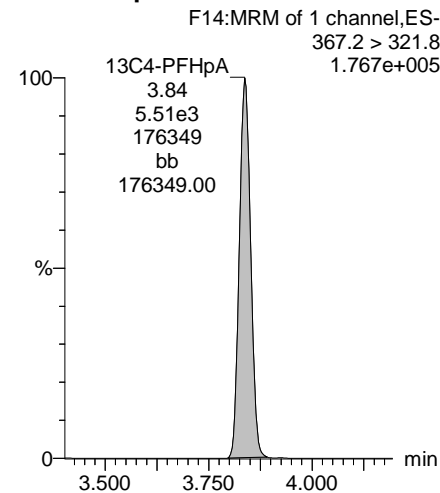
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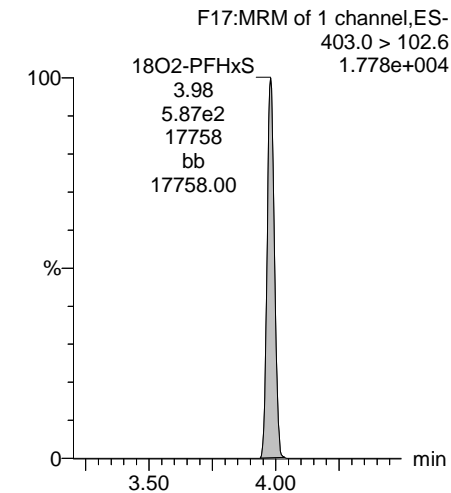
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



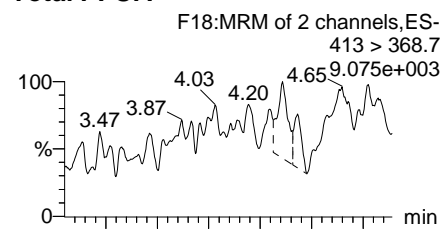
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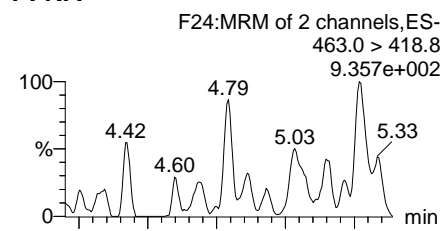
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Name: 180115M2_53, Date: 16-Jan-2018, Time: 10:16:50, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

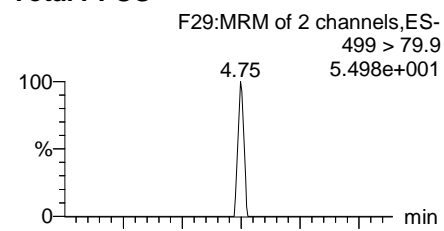
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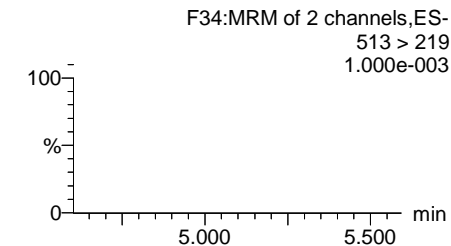
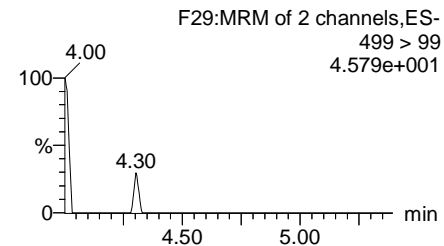
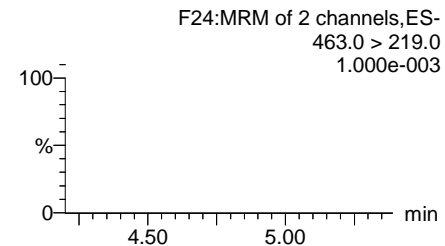
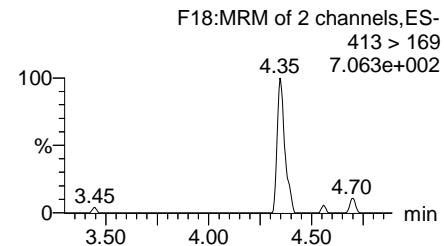
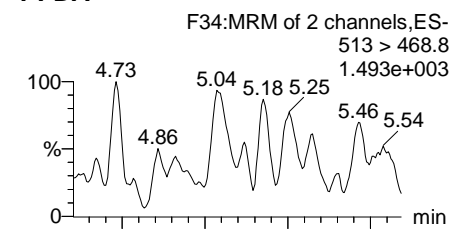
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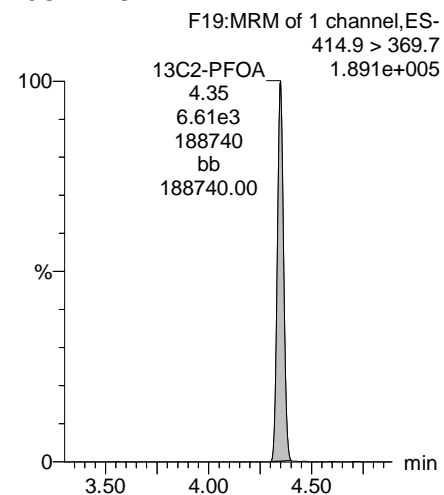
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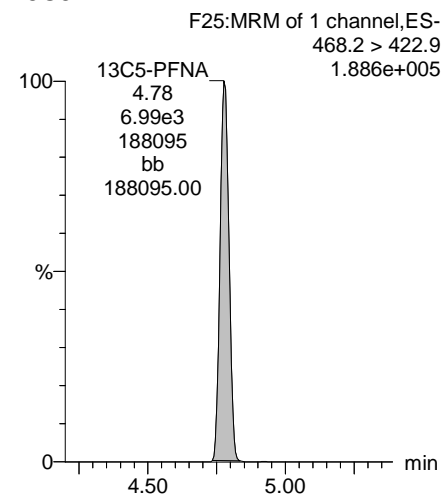
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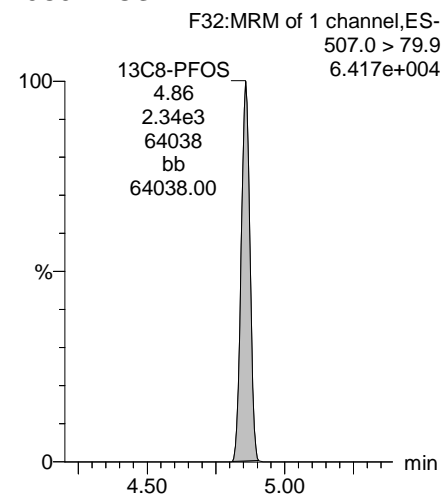
13C2-PFOA



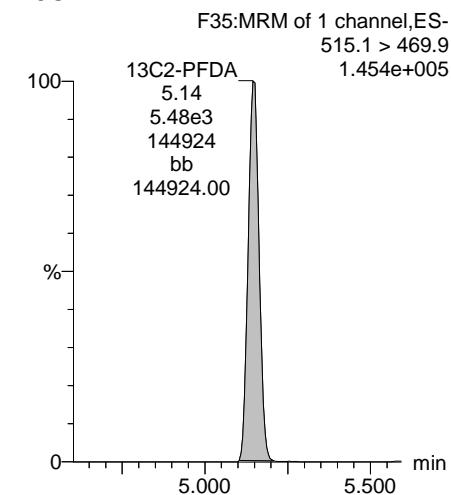
13C5-PFNA



13C8-PFOS



13C2-PFDA



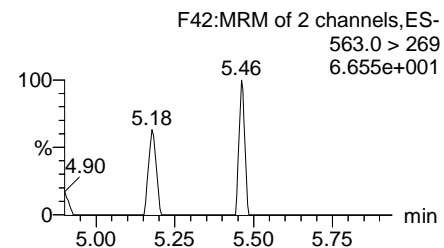
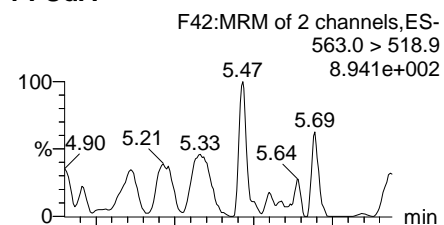
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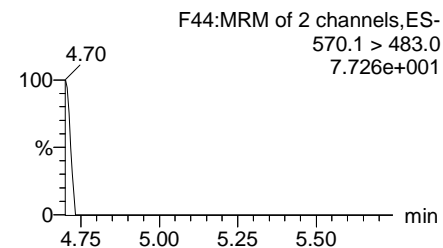
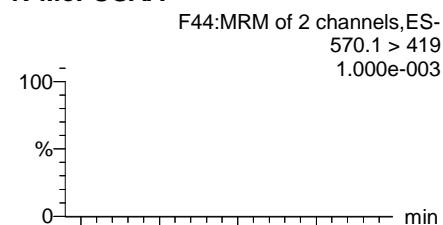
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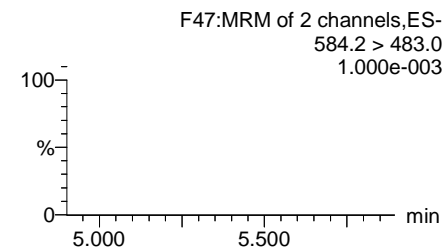
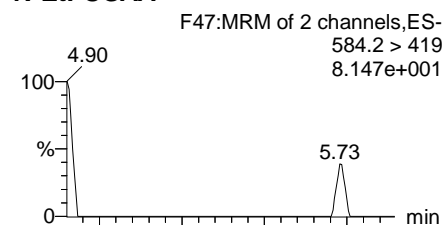
PFUdA



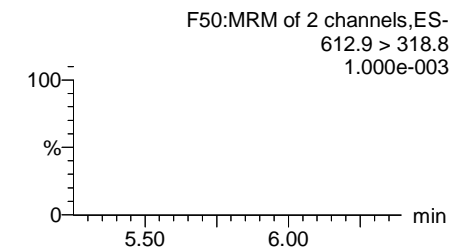
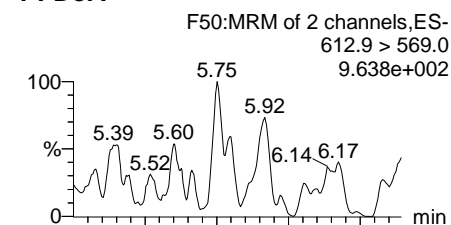
N-MeFOSAA



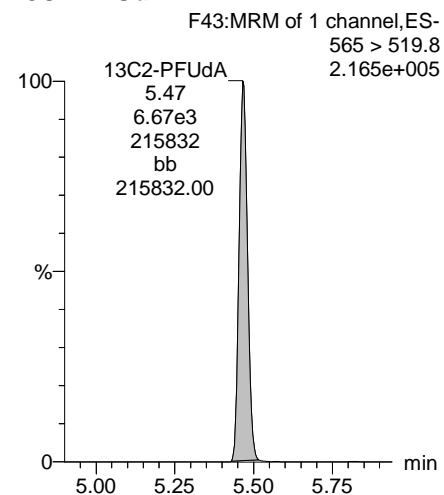
N-EtFOSAA



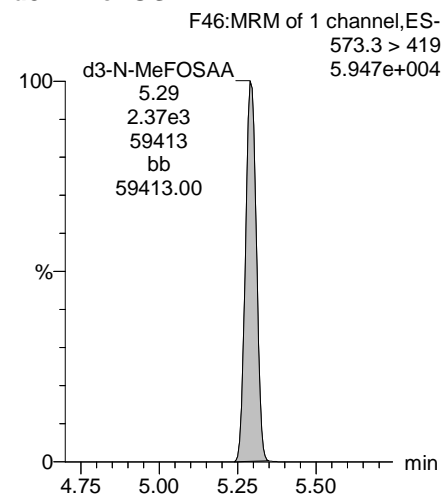
PFDaA



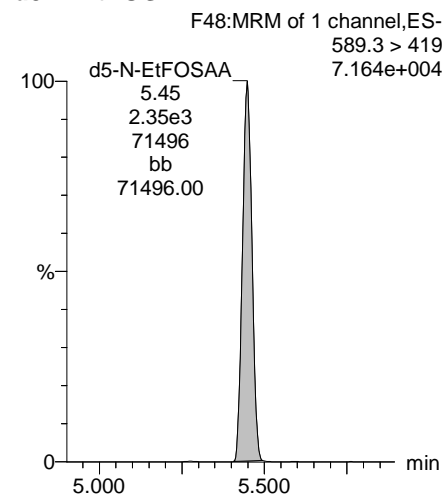
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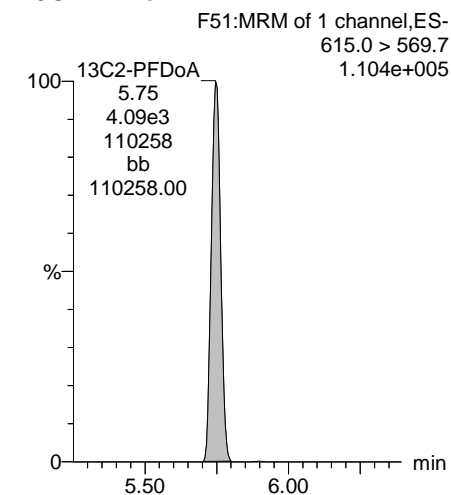
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



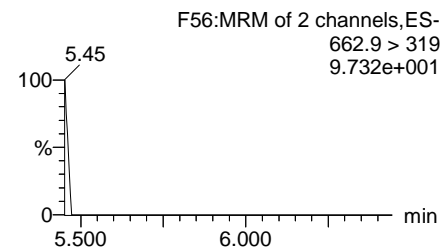
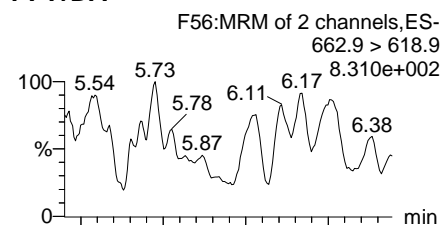
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Last Altered: Tuesday, January 16, 2018 13:34:09 Pacific Standard Time

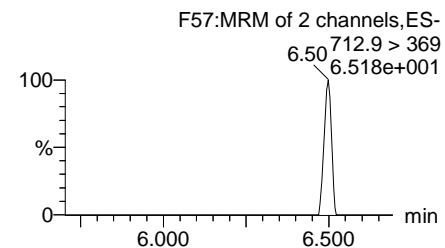
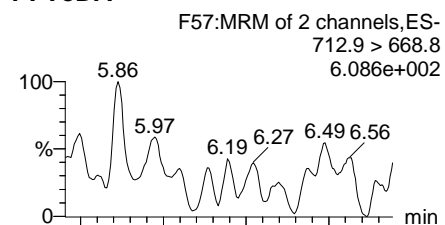
Printed: Tuesday, January 16, 2018 13:34:43 Pacific Standard Time

Name: 180115M2_53, Date: 16-Jan-2018, Time: 10:16:50, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

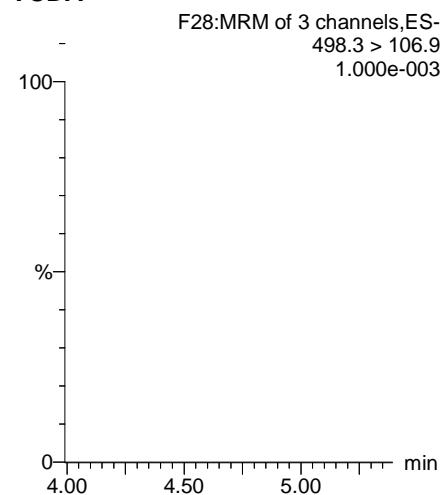
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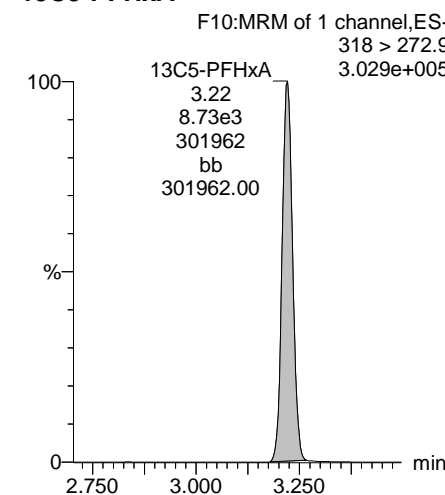
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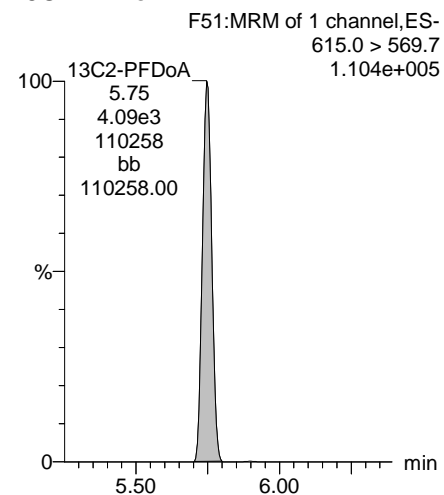
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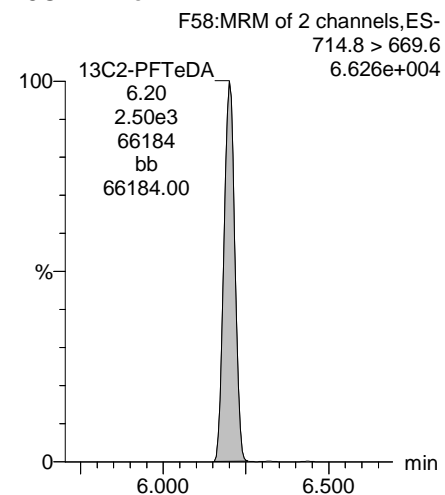
13C5-PFHxA



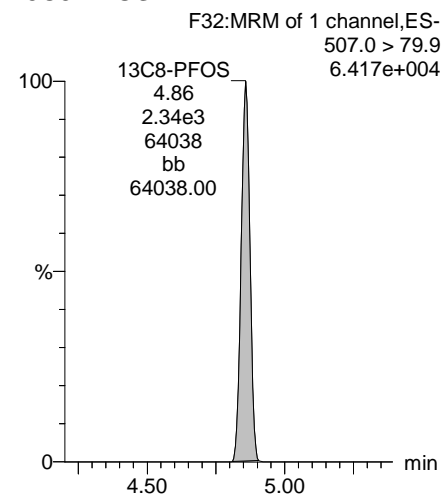
13C2-PFDoA



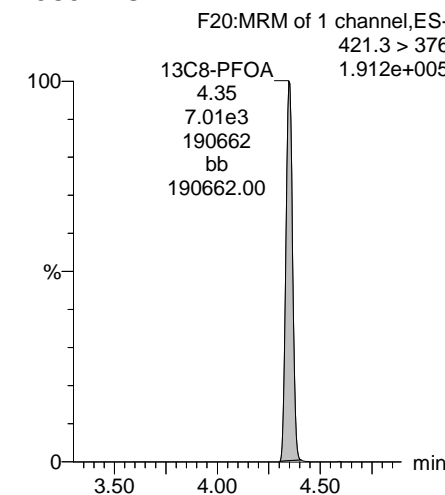
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

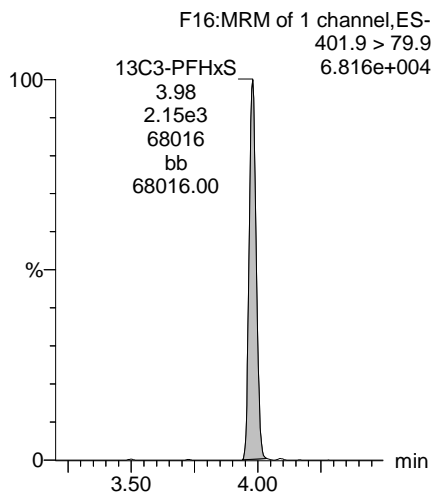


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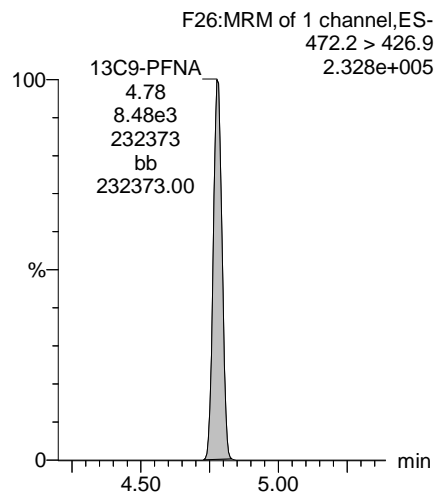
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Name: 180115M2_53, Date: 16-Jan-2018, Time: 10:16:50, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

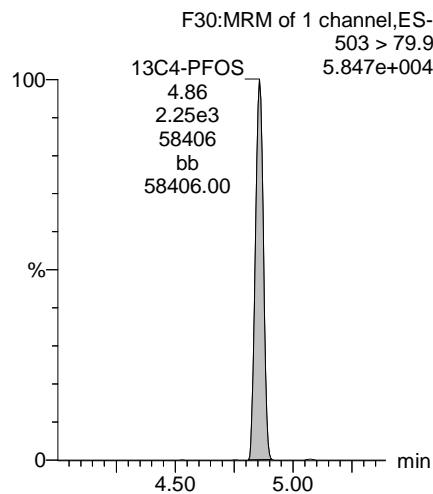
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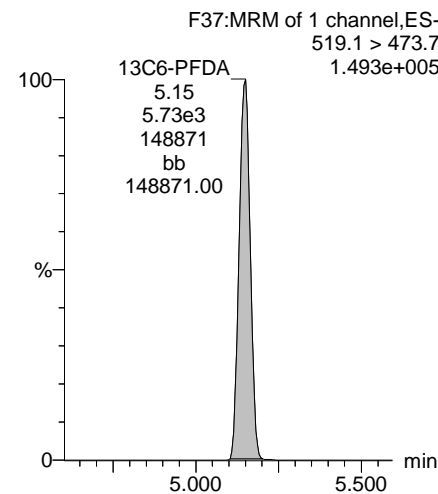
13C9-PFNA



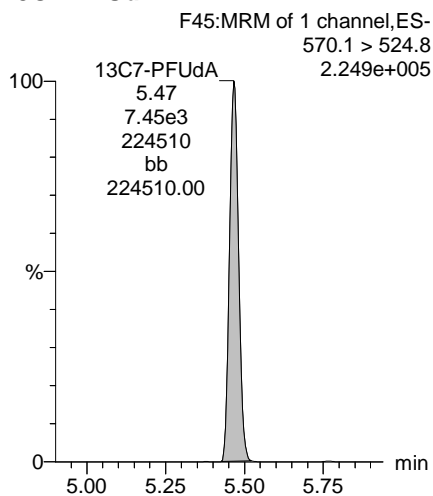
13C4-PFOS



13C6-PFDA



13C7-PFUDa



Dataset: U:\Q4.PRO\results\180115M2\180115M2-109.qld

Last Altered: Thursday, January 18, 2018 11:40:44 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:41:11 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_109, Date: 16-Jan-2018, Time: 21:18:29, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		1.01e3	0.258		2.87				
2	4 PFHxA	313.2 > 268.9		2.32e3	0.258		3.36				
3	5 PFHpA	363.0 > 318.9		6.40e3	0.258		4.00				
4	6 L-PFHxS	398.9 > 79.6		8.24e2	0.258		3.94				
5	9 L-PFOA	413 > 368.7		7.04e3	0.258		4.34				
6	12 PFNA	463.0 > 418.8		6.27e3	0.258		4.94				
7	14 L-PFOS	499 > 79.9		2.57e3	0.258		5.02				
8	16 PFDA	513 > 468.8		5.03e3	0.258		5.31				
9	18 N-MeFOSAA	570.1 > 419		2.82e3	0.258		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.95e3	0.258		5.60				
11	20 PFUdA	563.0 > 518.9		5.04e3	0.258		5.62				
12	22 PFDoA	612.9 > 569.0		3.54e3	0.258		5.91				

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-109.qld

Last Altered: Thursday, January 18, 2018 11:40:44 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:41:21 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_109, Date: 16-Jan-2018, Time: 21:18:29, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.54e3	0.258		6.15				
2	25 PFTeDA	712.9 > 668.8		2.35e3	0.258		6.35				
3	33 13C3-PFBS	302. > 98.8	1.01e3	9.14e3	0.258	0.095	2.87	2.67	1.38	56.4656	116.4
4	34 13C2-PFHxA	315 > 269.8	2.32e3	9.14e3	0.258	0.636	3.36	3.16	3.18	19.3824	99.9
5	35 13C4-PFHpA	367.2 > 321.8	6.40e3	9.14e3	0.258	0.621	4.00	3.78	8.75	54.6819	112.7
6	36 18O2-PFHxS	403.0 > 102.6	8.24e2	2.43e3	0.258	0.336	4.14	3.93	4.25	49.0545	101.1
7	37 13C2-6:2 FTS	429.1 > 408.9	1.76e3	8.71e3	0.258	0.192	4.46	4.25	2.53	50.9739	105.1
8	38 13C2-PFOA	414.9 > 369.7	7.04e3	8.71e3	0.258	1.001	4.50	4.30	10.1	39.1576	80.7
9	39 13C5-PFNA	468.2 > 422.9	6.27e3	7.33e3	0.258	0.811	4.94	4.73	10.7	51.1688	105.5
10	40 13C8-PFOA	506.1 > 77.7	1.43e3	7.08e3	0.258	0.196	5.00	4.79	2.52	49.8272	102.7
11	41 13C8-PFOS	507.0 > 79.9	2.57e3	2.60e3	0.258	0.862	5.02	4.82	12.3	55.5899	114.6
12	42 13C2-PFDA	515.1 > 469.9	5.03e3	5.66e3	0.258	0.996	5.31	5.10	11.1	43.3246	89.3
13	43 13C2-8:2 FTS	529.1 > 508.7	6.58e2	9.14e3	0.258	0.103	5.28	5.08	0.900	33.9185	69.9
14	44 d3-N-MeFOSAA	573.3 > 419	2.82e3	7.08e3	0.258	0.340	5.45	5.25	4.98	56.8494	117.2
15	45 d5-N-EtFOSAA	589.3 > 419	2.95e3	7.08e3	0.258	0.377	5.60	5.41	5.21	53.6253	110.5
16	46 13C2-PFUdA	565 > 519.8	5.04e3	7.08e3	0.258	0.944	5.62	5.43	8.89	36.5741	75.4
17	47 13C2-PFDoA	615.0 > 569.7	3.54e3	7.08e3	0.258	0.726	5.91	5.71	6.25	33.4114	68.9
18	49 13C2-PFTeDA	714.8 > 669.6	2.35e3	7.08e3	0.258	0.371	6.35	6.17	4.15	43.3503	89.4
19	55 13C5-PFHxA	318 > 272.9	9.14e3	9.14e3	0.258	1.000	3.36	3.16	12.5	48.5079	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.43e3	2.43e3	0.258	1.000	4.14	3.93	12.5	48.5079	100.0
21	57 13C8-PFOA	421.3 > 376	8.71e3	8.71e3	0.258	1.000	4.50	4.30	12.5	48.5079	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.33e3	7.33e3	0.258	1.000	4.94	4.74	12.5	48.5079	100.0
23	59 13C4-PFOS	503 > 79.9	2.60e3	2.60e3	0.258	1.000	5.02	4.82	12.5	48.5079	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.66e3	5.66e3	0.258	1.000	5.31	5.10	12.5	48.5079	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.08e3	7.08e3	0.258	1.000	5.62	5.43	12.5	48.5079	100.0
26	62 Total PFHxS	398.9 > 79.6	0.00e0	8.24e2	0.258		4.14		0.000		
27	63 Total PFOA	413 > 368.7	0.00e0	7.04e3	0.258		4.51		0.000		
28	64 Total PFOS	499 > 79.9	0.00e0	2.57e3	0.258		5.02		0.000		
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.82e3	0.258		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.95e3	0.258		5.61		0.000		

See original run

Dataset: U:\Q4.PRO\results\180115M2\180115M2-109.qld

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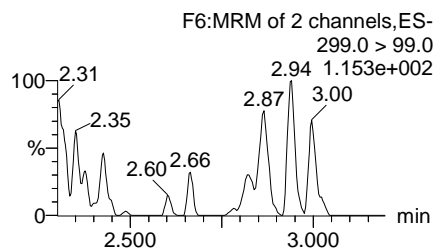
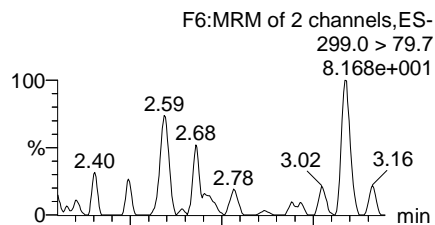
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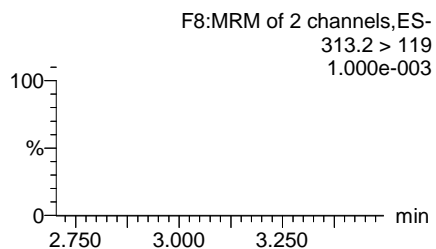
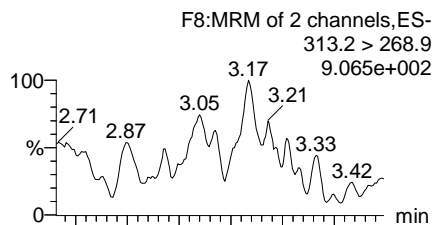
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Name: 180115M2_109, Date: 16-Jan-2018, Time: 21:18:29, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

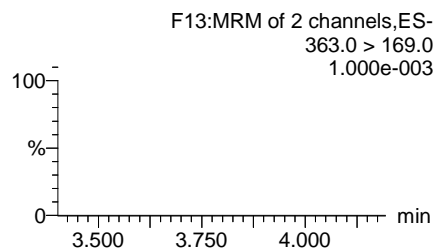
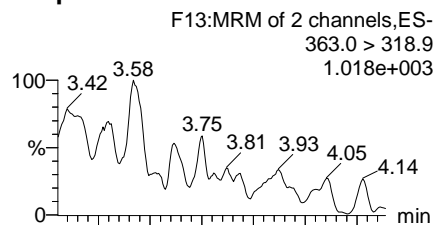
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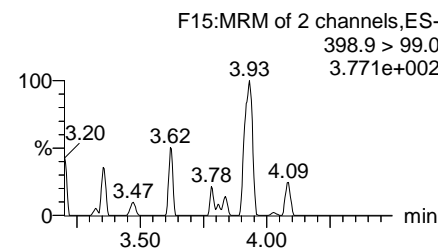
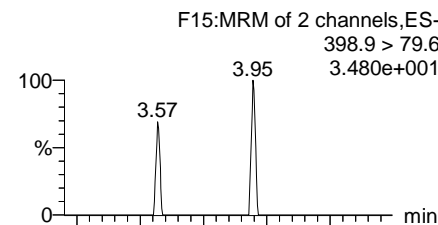
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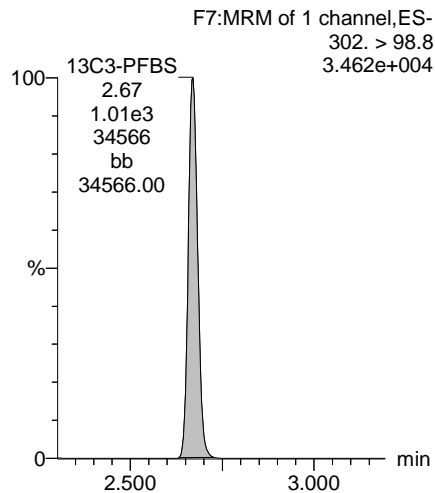
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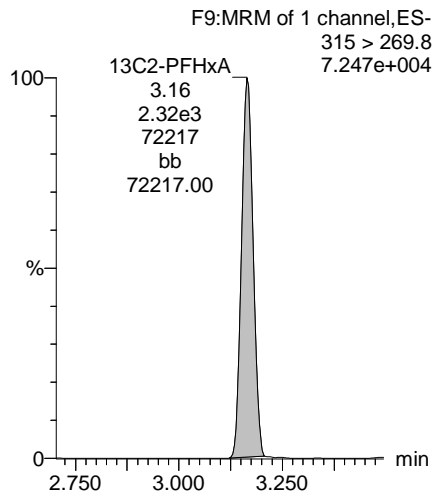
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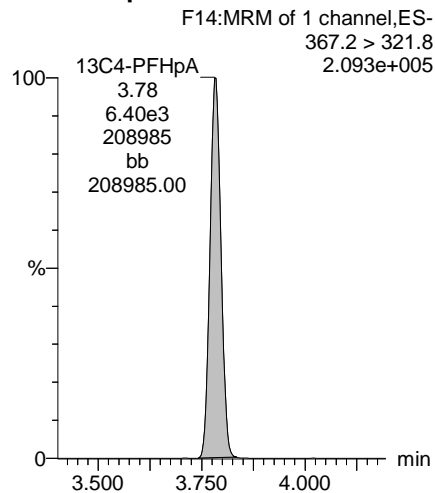
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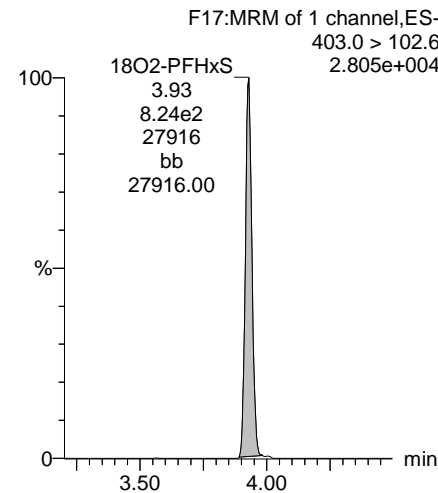
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13C4-PFHpA



18O2-PFHxS



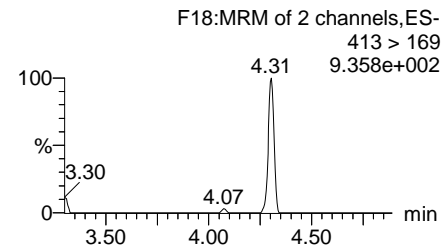
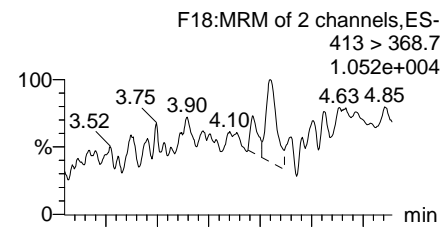
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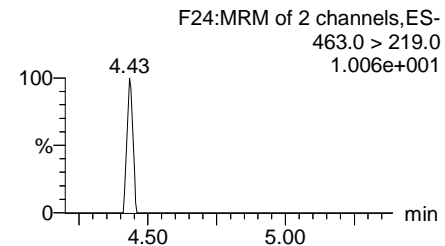
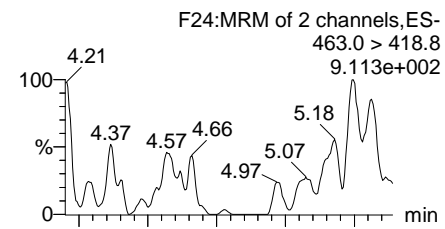
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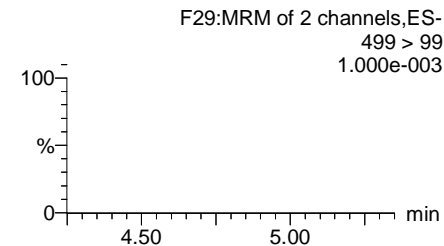
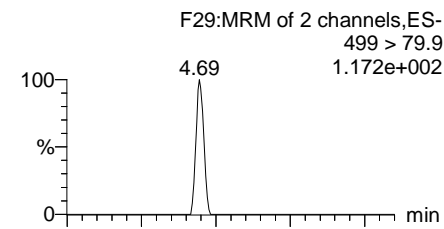
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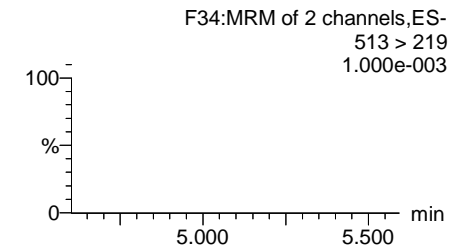
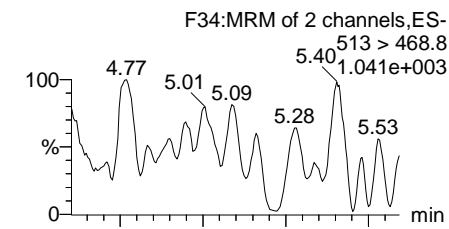
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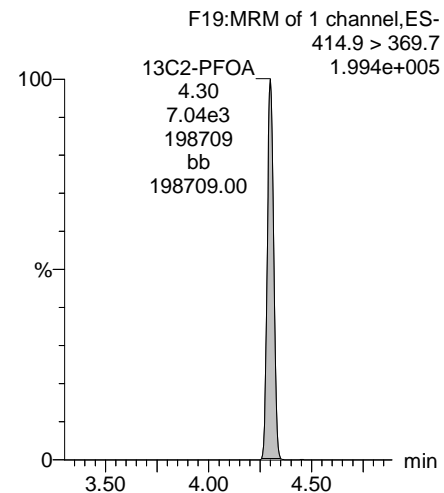
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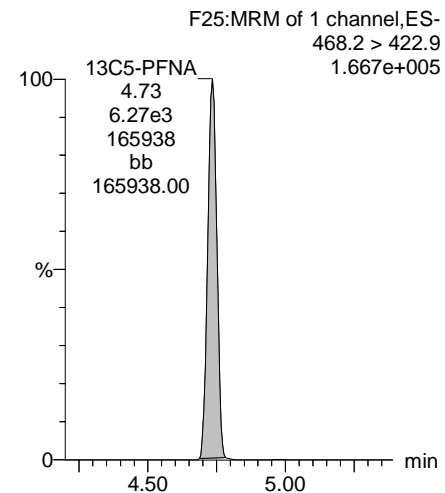
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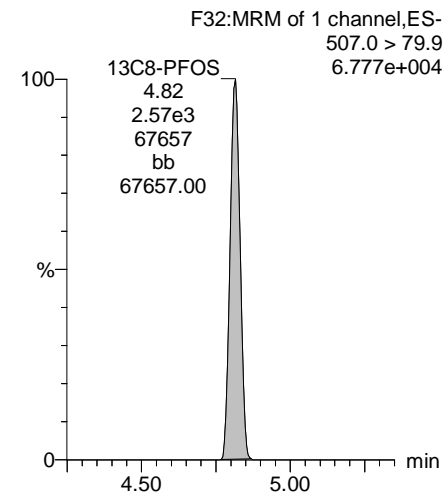
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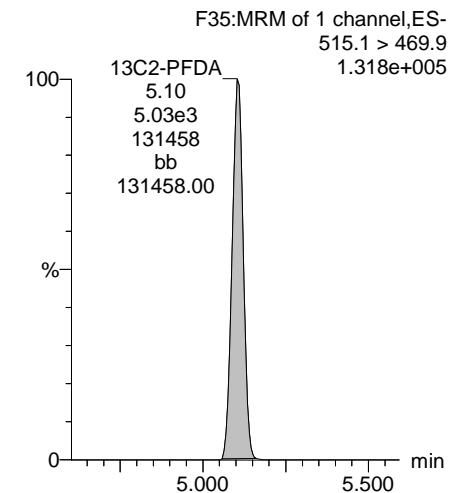
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13C8-PFOS



13C2-PFDA



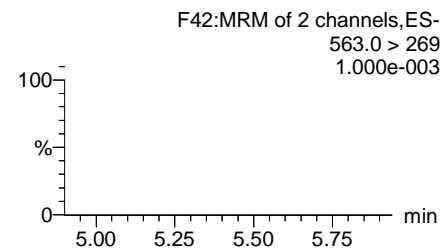
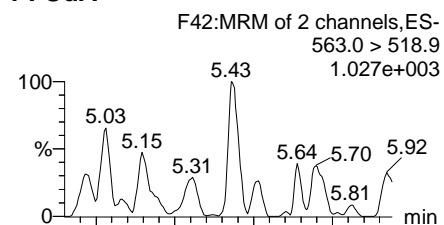
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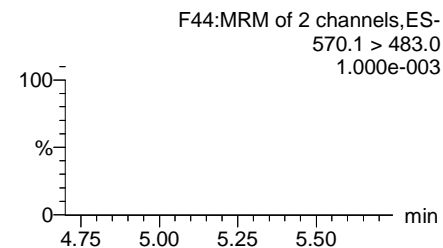
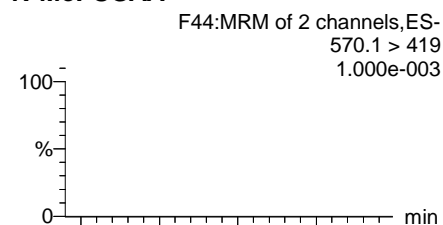
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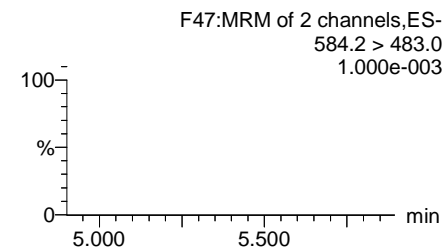
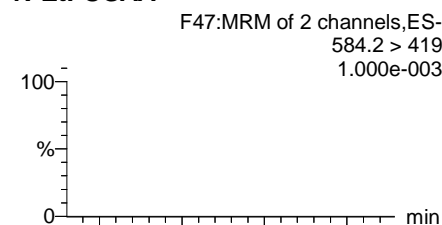
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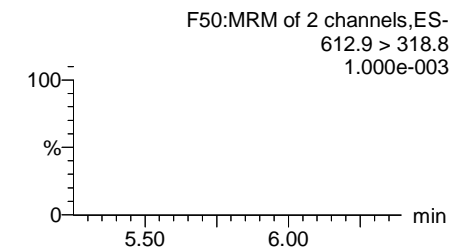
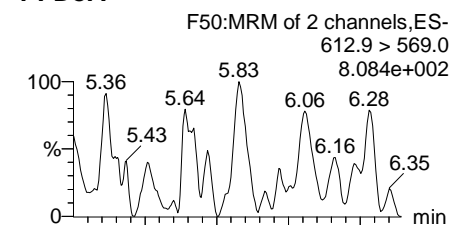
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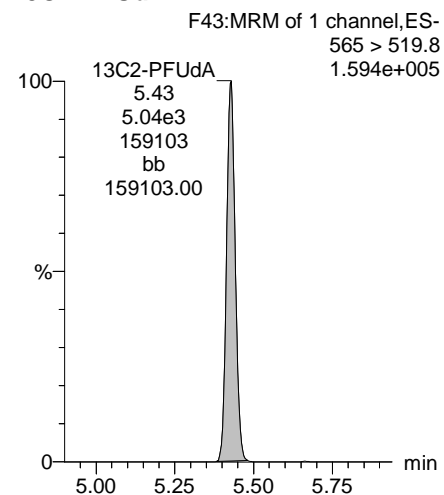
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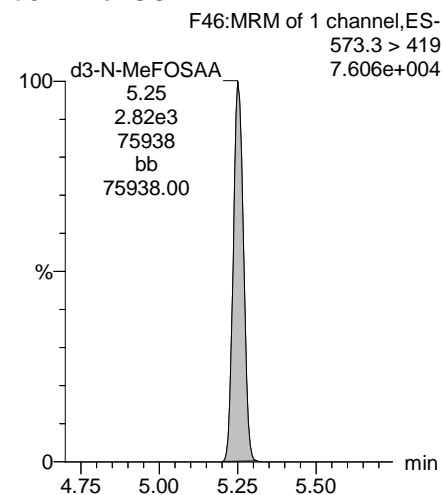
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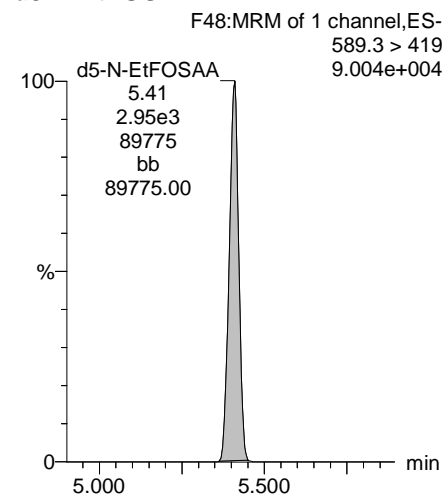
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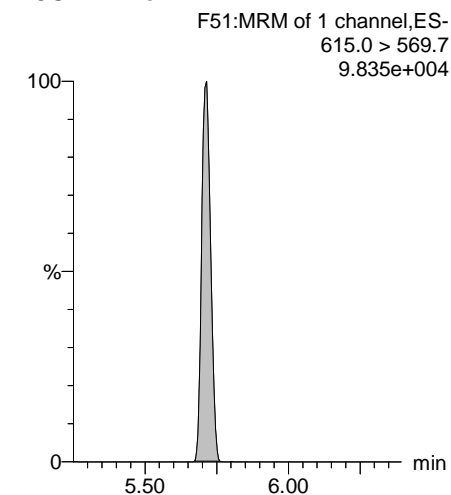
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d5-N-EtFOSAA



13C2-PFDaA



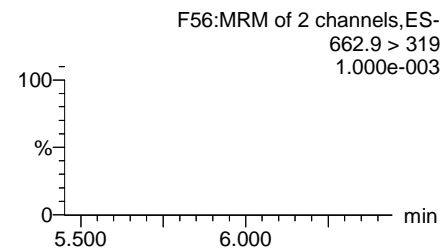
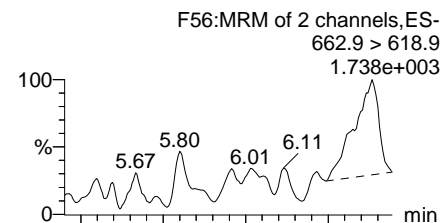
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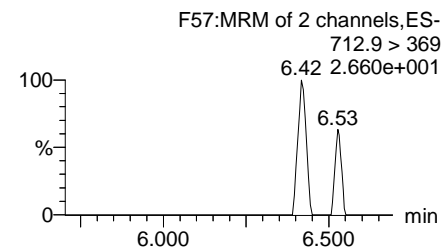
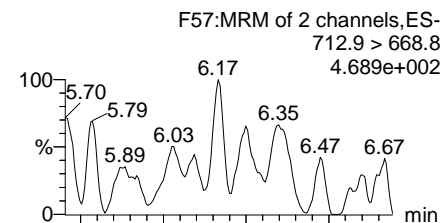
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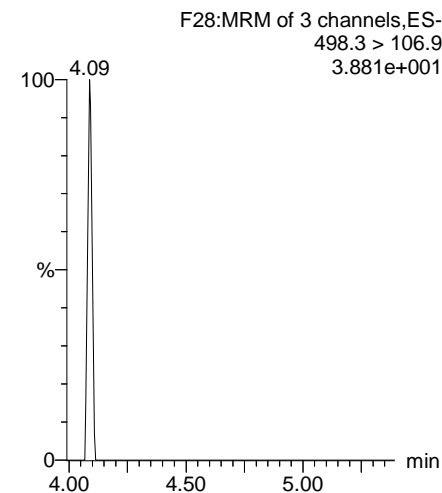
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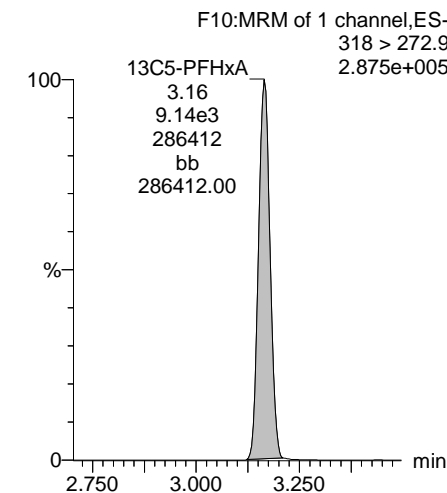
PFTeDA



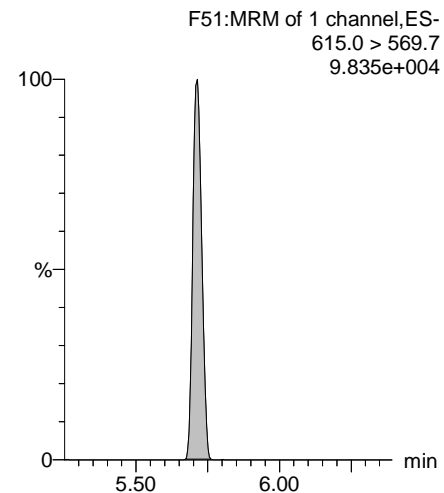
TCDA



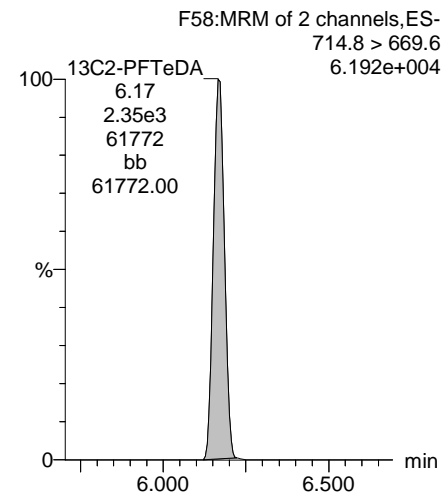
13C5-PFHxA



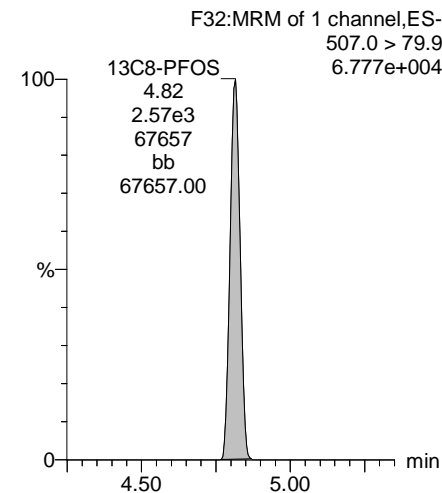
13C2-PFDoA



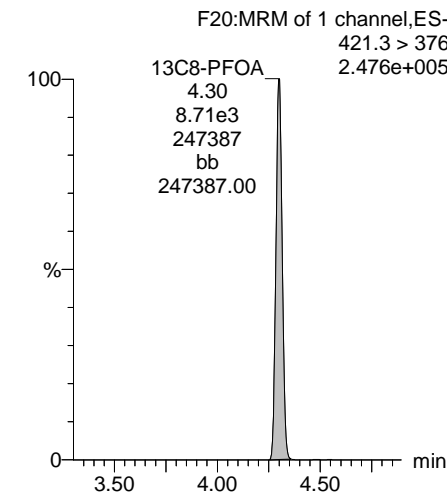
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-109.qld

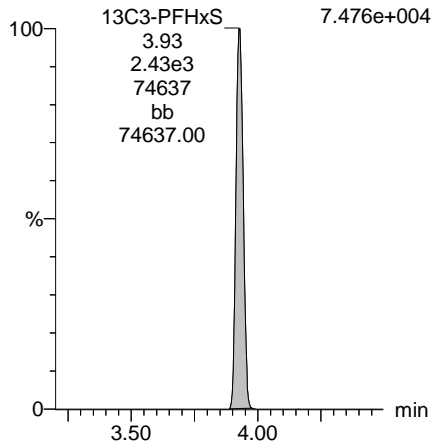
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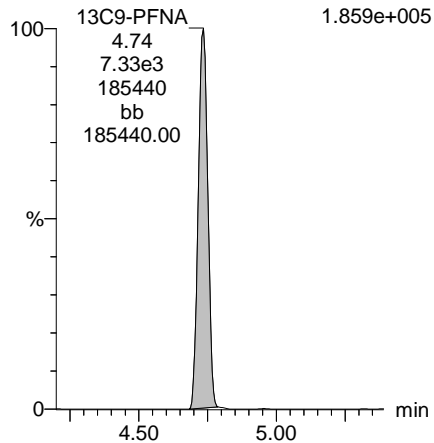
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.476e+004



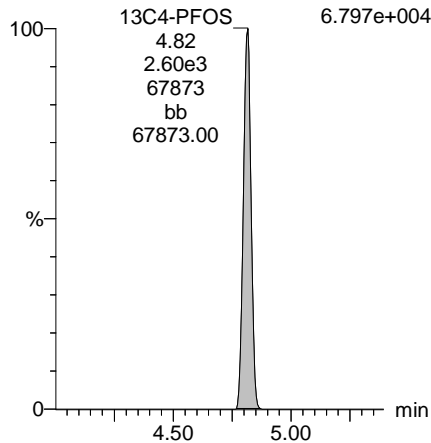
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
1.859e+005



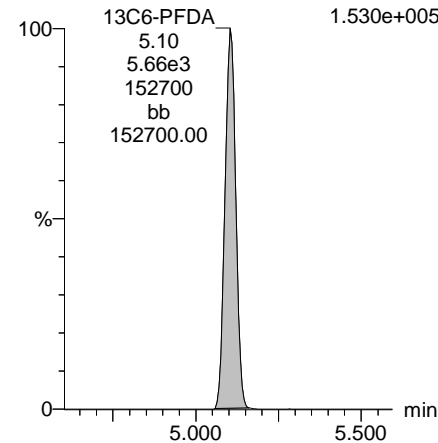
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.797e+004



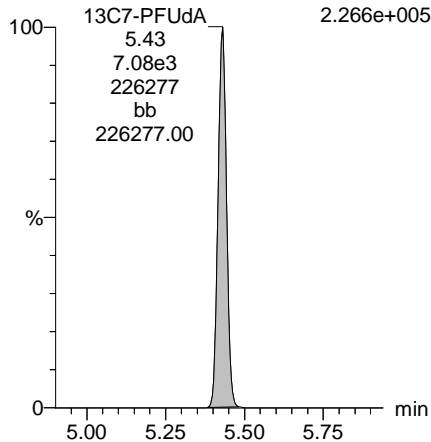
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.530e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.266e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-54.qld

Last Altered: Tuesday, January 16, 2018 13:36:36 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:37:12 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_54, Date: 16-Jan-2018, Time: 10:28:24, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		1.07e3	0.242		2.87				
2	4 PFHxA	313.2 > 268.9		2.45e3	0.242		3.36				
3	5 PFHpA	363.0 > 318.9		5.37e3	0.242		4.00				
4	6 L-PFHxS	398.9 > 79.6	6.71e0	7.78e2	0.242		4.14	3.98	0.108	0.1357	
5	9 L-PFOA	413 > 368.7	3.74e2	7.85e3	0.242		4.35	4.35	0.595	0.8801	
6	12 PFNA	463.0 > 418.8	3.37e3	7.04e3	0.242		4.94	4.78	5.97	18.2215	
7	14 L-PFOS	499 > 79.9	1.05e1	1.95e3	0.242		5.02	4.75	0.0675	0.4163	
8	16 PFDA	513 > 468.8	3.83e2	5.46e3	0.242		5.31	5.14	0.876	2.4797	
9	18 N-MeFOSAA	570.1 > 419		2.44e3	0.242		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.76e3	0.242		5.60				
11	20 PFUdA	563.0 > 518.9		7.01e3	0.242		5.62				
12	22 PFDaA	612.9 > 569.0		4.72e3	0.242		5.91				

Use only

Dataset: U:\Q4.PRO\results\180115M2\180115M2-54.qld

Last Altered: Tuesday, January 16, 2018 13:36:36 Pacific Standard Time

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

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_54, Date: 16-Jan-2018, Time: 10:28:24, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.72e3	0.242		6.15				
2	25 PFTeDA	712.9 > 668.8		2.53e3	0.242		6.35				
3	33 13C3-PFBS	302. > 98.8	1.07e3	9.48e3	0.242	0.095	2.87	2.72	1.41	61.0563	118.4
4	34 13C2-PFHxA	315 > 269.8	2.45e3	9.48e3	0.242	0.636	3.36	3.22	3.23	20.9414	101.5
5	35 13C4-PFHpA	367.2 > 321.8	5.37e3	9.48e3	0.242	0.621	4.00	3.84	7.08	47.0494	91.3
6	36 18O2-PFHxS	403.0 > 102.6	7.78e2	2.26e3	0.242	0.336	4.14	3.98	4.31	52.9722	102.7
7	37 13C2-6:2 FTS	429.1 > 408.9	1.36e3	9.61e3	0.242	0.192	4.46	4.30	1.77	37.9639	73.6
8	38 13C2-PFOA	414.9 > 369.7	7.85e3	9.61e3	0.242	1.001	4.50	4.35	10.2	42.0622	81.6
9	39 13C5-PFNA	468.2 > 422.9	7.04e3	8.09e3	0.242	0.811	4.94	4.78	10.9	55.3954	107.4
10	40 13C8-PFOA	506.1 > 77.7	1.29e3	8.43e3	0.242	0.196	5.00	4.85	1.91	40.0167	77.6
11	41 13C8-PFOS	507.0 > 79.9	1.95e3	2.61e3	0.242	0.862	5.02	4.86	9.34	44.7389	86.8
12	42 13C2-PFDA	515.1 > 469.9	5.46e3	5.92e3	0.242	0.996	5.31	5.14	11.5	47.7840	92.7
13	43 13C2-8:2 FTS	529.1 > 508.7	9.99e2	9.48e3	0.242	0.103	5.28	5.12	1.32	52.7765	102.4
14	44 d3-N-MeFOSAA	573.3 > 419	2.44e3	8.43e3	0.242	0.340	5.45	5.29	3.62	43.9607	85.3
15	45 d5-N-EtFOSAA	589.3 > 419	2.76e3	8.43e3	0.242	0.377	5.60	5.44	4.10	44.8714	87.0
16	46 13C2-PFUdA	565 > 519.8	7.01e3	8.43e3	0.242	0.944	5.62	5.47	10.4	45.4387	88.1
17	47 13C2-PFDoA	615.0 > 569.7	4.72e3	8.43e3	0.242	0.726	5.91	5.75	7.00	39.7681	77.1
18	49 13C2-PFTeDA	714.8 > 669.6	2.53e3	8.43e3	0.242	0.371	6.35	6.20	3.75	41.6432	80.8
19	55 13C5-PFHxA	318 > 272.9	9.48e3	9.48e3	0.242	1.000	3.36	3.22	12.5	51.5570	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.26e3	2.26e3	0.242	1.000	4.14	3.98	12.5	51.5570	100.0
21	57 13C8-PFOA	421.3 > 376	9.61e3	9.61e3	0.242	1.000	4.50	4.35	12.5	51.5570	100.0
22	58 13C9-PFNA	472.2 > 426.9	8.09e3	8.09e3	0.242	1.000	4.94	4.78	12.5	51.5570	100.0
23	59 13C4-PFOS	503 > 79.9	2.61e3	2.61e3	0.242	1.000	5.02	4.86	12.5	51.5570	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.92e3	5.92e3	0.242	1.000	5.31	5.15	12.5	51.5570	100.0
25	61 13C7-PFUdA	570.1 > 524.8	8.43e3	8.43e3	0.242	1.000	5.62	5.47	12.5	51.5570	100.0
26	62 Total PFHxS	398.9 > 79.6	6.71e0	7.78e2	0.242		4.14		0.108	0.1357	
27	63 Total PFOA	413 > 368.7	3.74e2	7.85e3	0.242		4.51		0.595	0.8801	
28	64 Total PFOS	499 > 79.9	1.05e1	1.95e3	0.242		5.02		0.0675	0.4163	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.44e3	0.242		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.76e3	0.242		5.61		0.000		

Use only

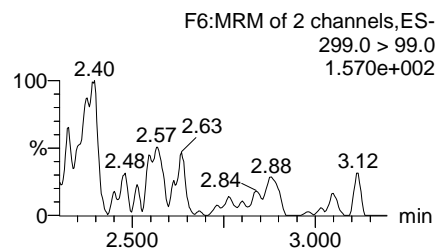
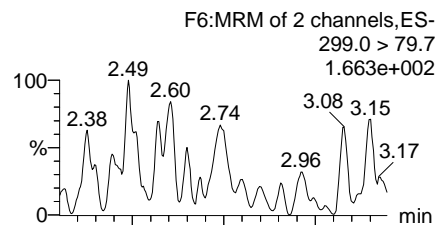
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Printed: Tuesday, January 16, 2018 13:37:23 Pacific Standard Time

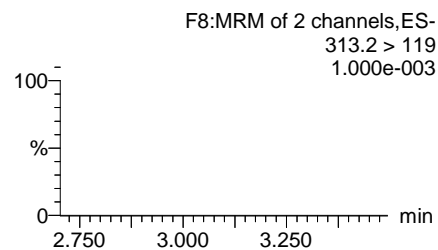
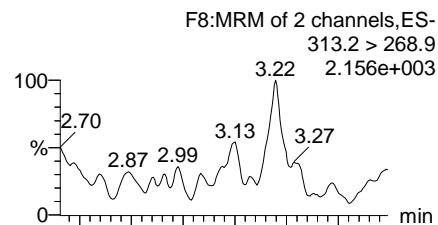
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Name: 180115M2_54, Date: 16-Jan-2018, Time: 10:28:24, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

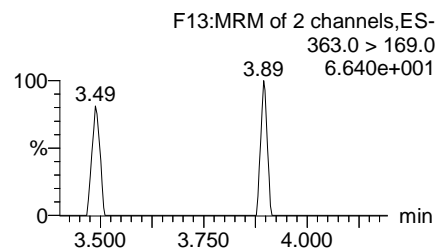
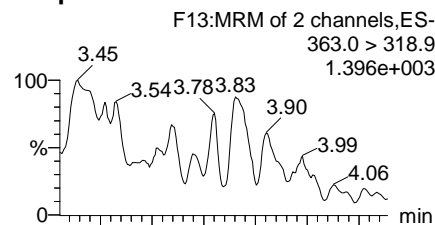
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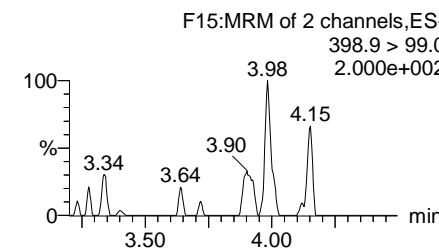
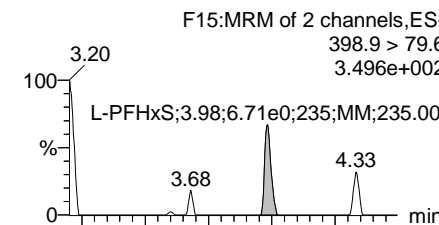
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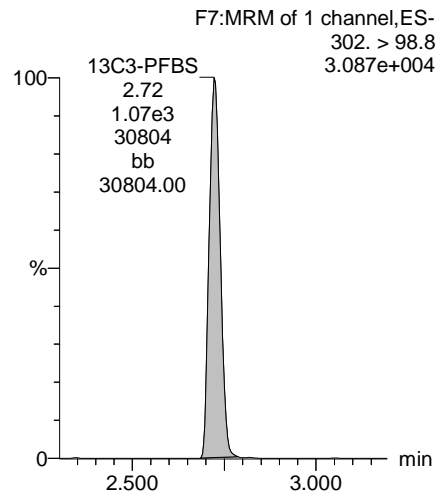
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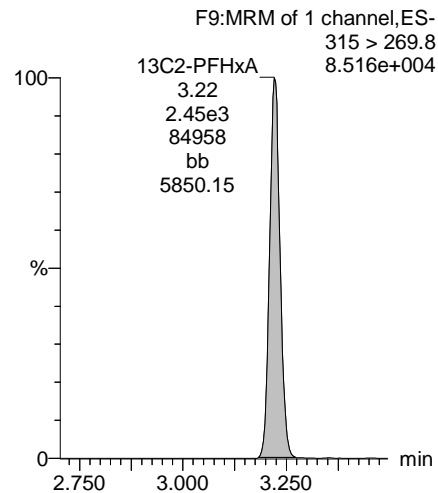
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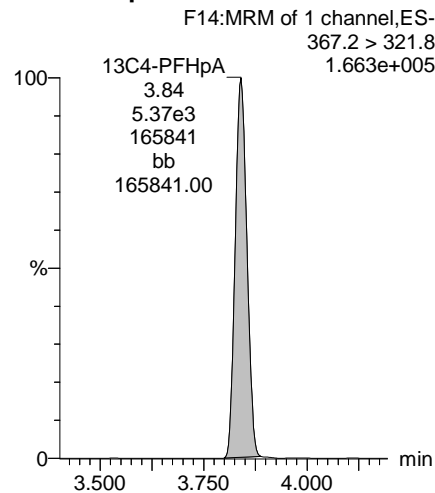
13C3-PFBS



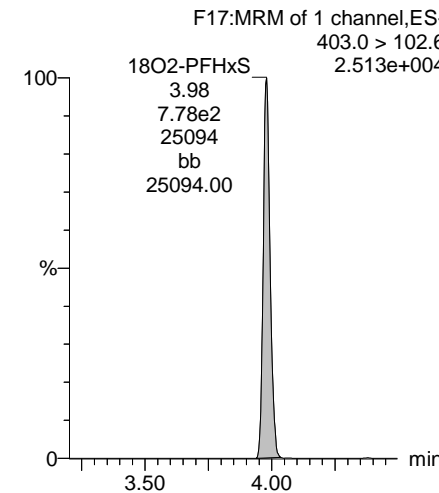
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

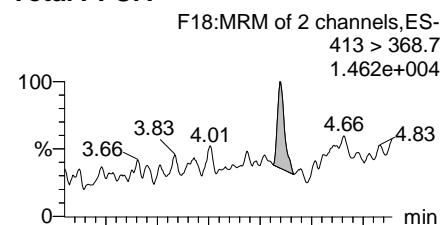


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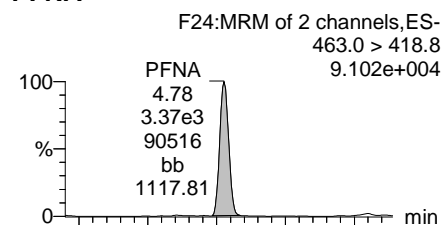
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Name: 180115M2_54, Date: 16-Jan-2018, Time: 10:28:24, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

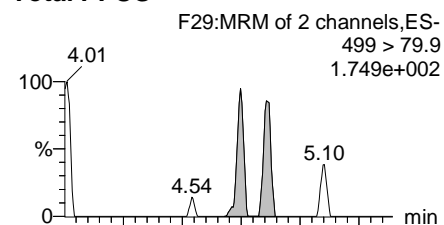
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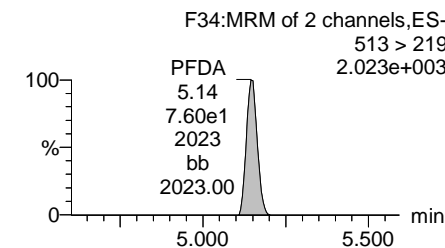
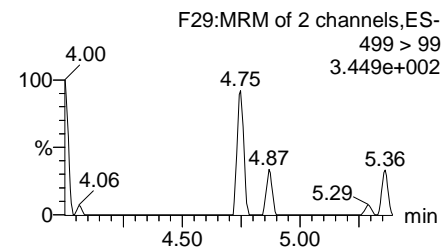
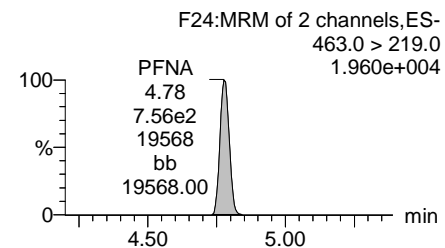
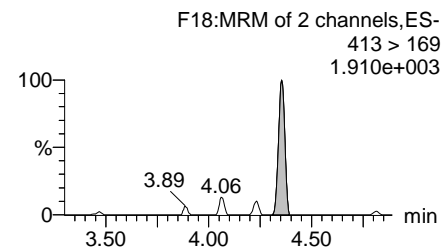
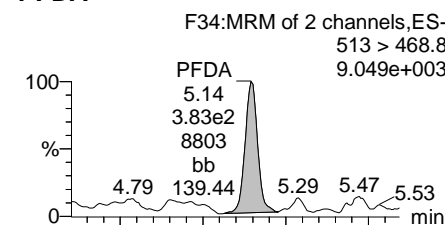
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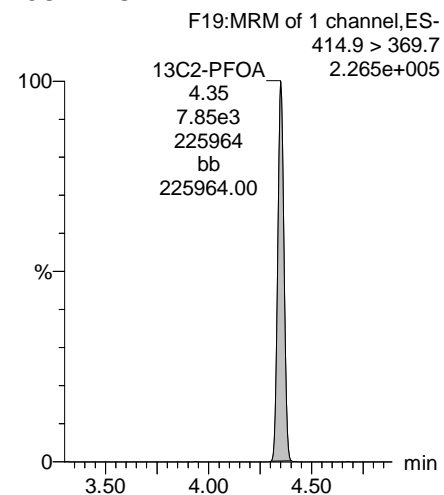
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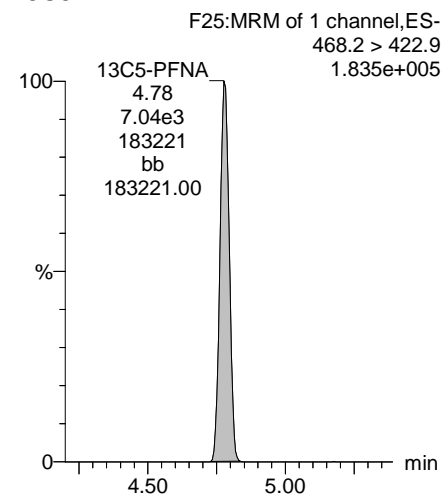
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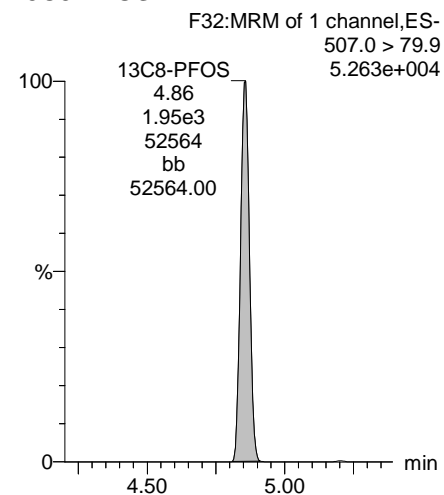
13C2-PFOA



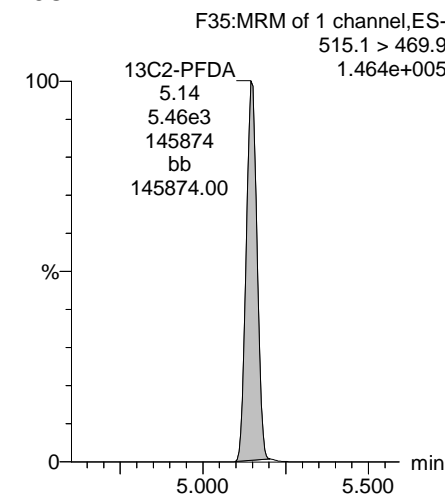
13C5-PFNA



13C8-PFOS



13C2-PFDA

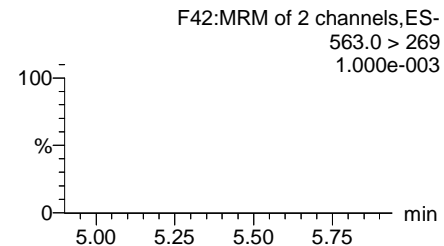
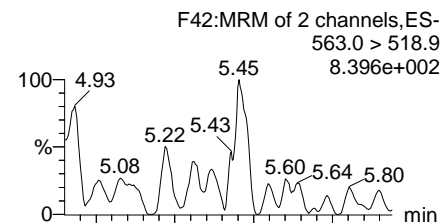


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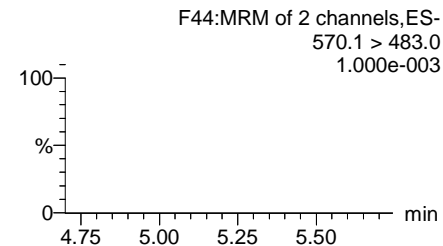
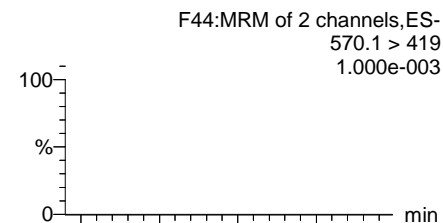
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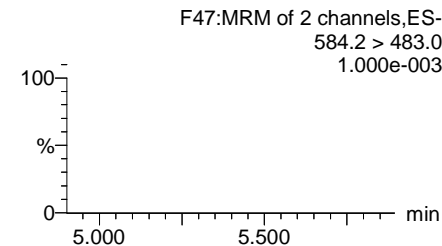
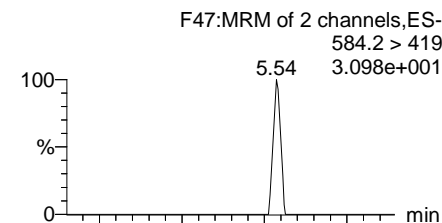
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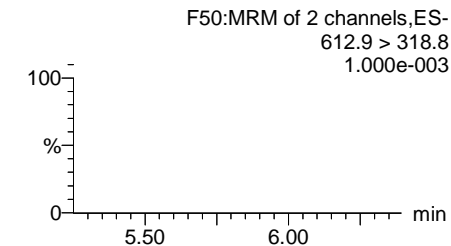
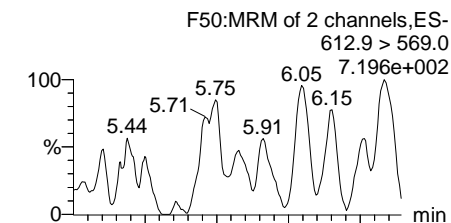
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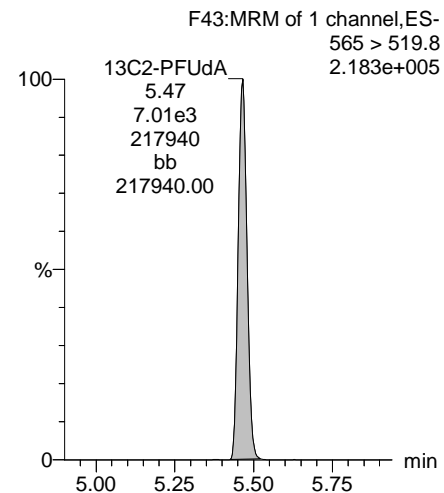
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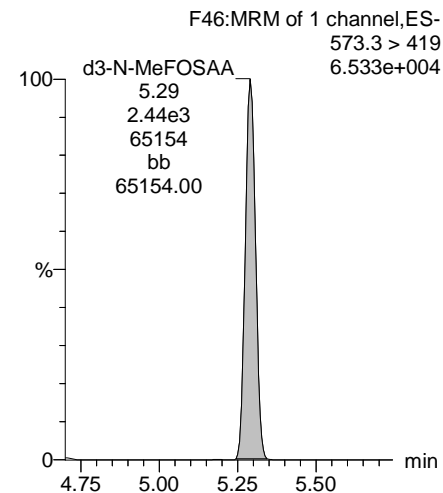
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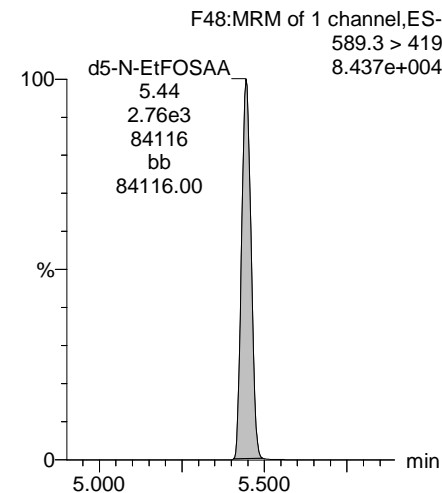
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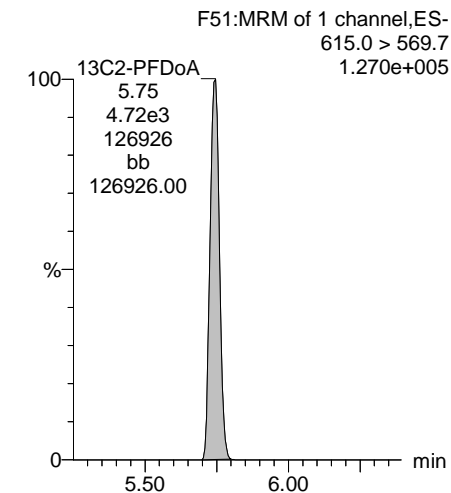
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA

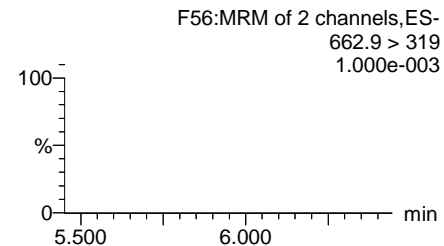
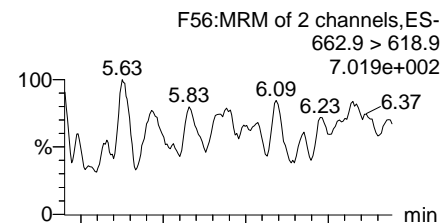


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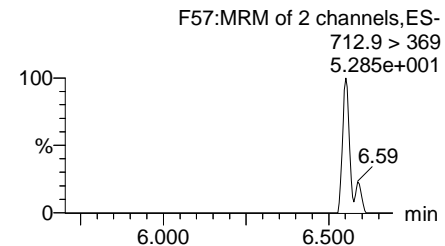
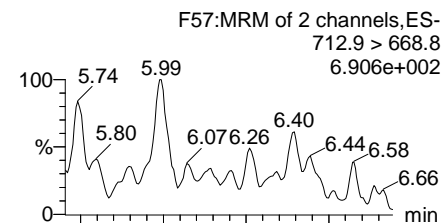
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Printed: Tuesday, January 16, 2018 13:37:23 Pacific Standard Time

Name: 180115M2_54, Date: 16-Jan-2018, Time: 10:28:24, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

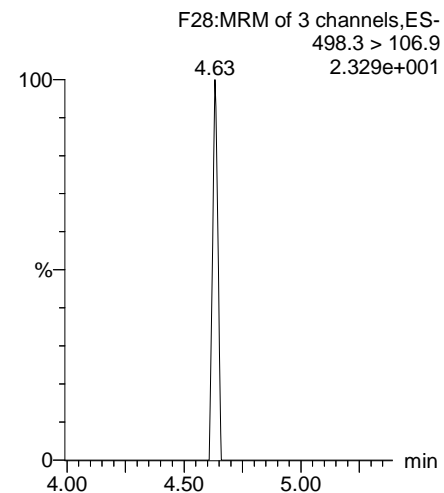
PFTrDA



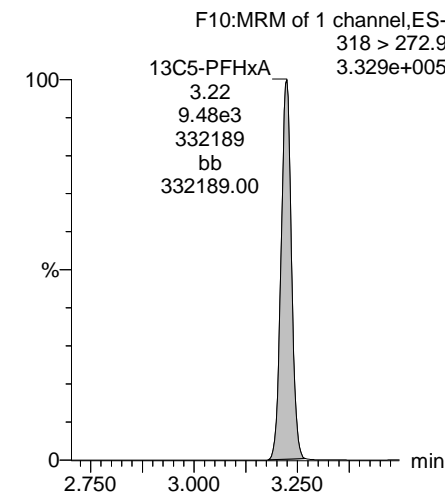
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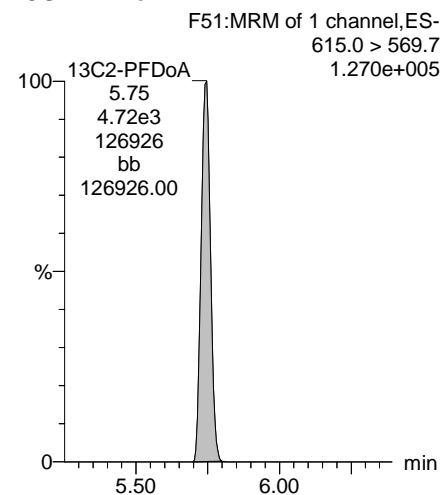
TCDA



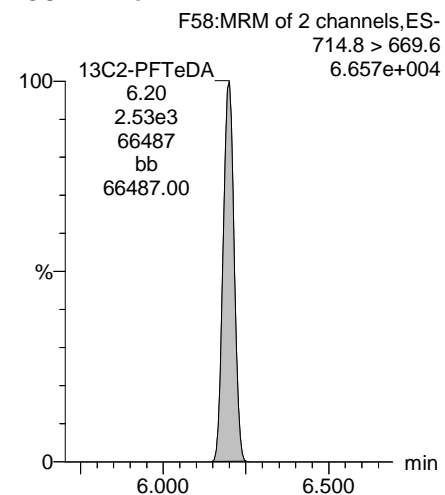
13C5-PFHxA



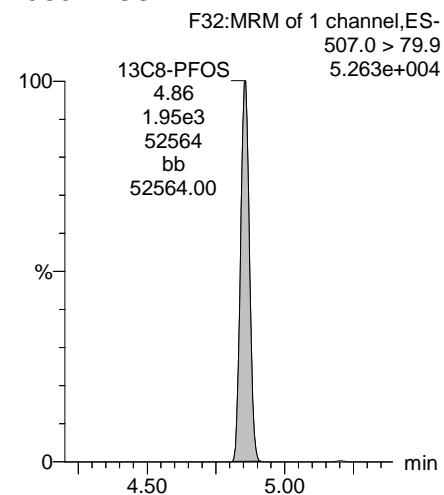
13C2-PFDoA



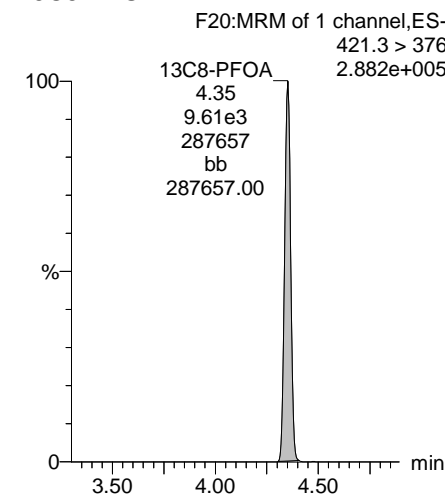
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

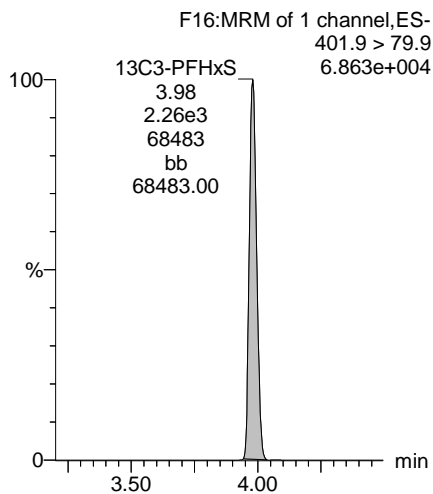


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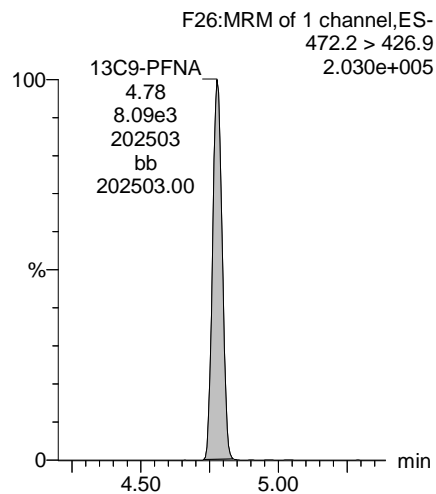
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Name: 180115M2_54, Date: 16-Jan-2018, Time: 10:28:24, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

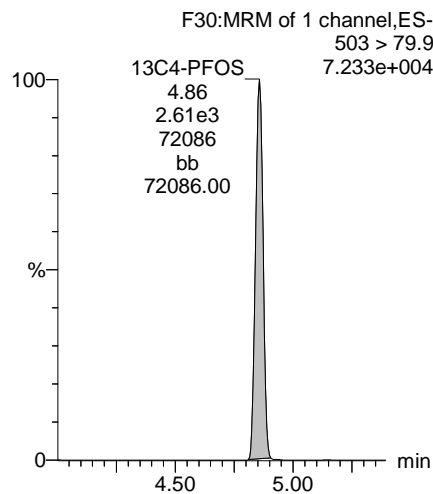
13C3-PFHxS



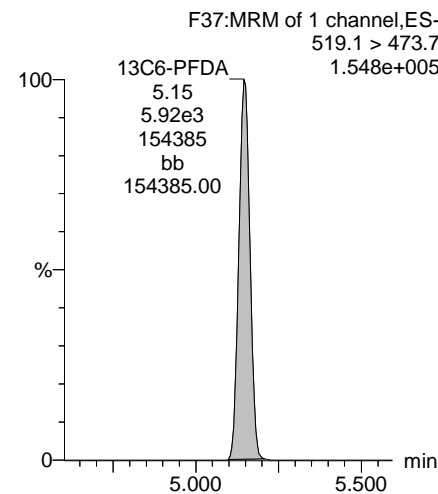
13C9-PFNA



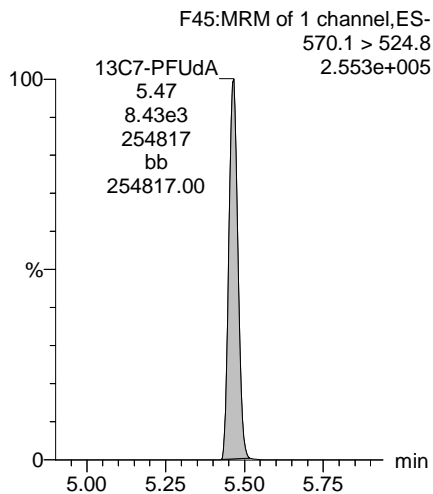
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-110.qld

Last Altered: Friday, January 19, 2018 11:41:19 Pacific Standard Time

Printed: Friday, January 19, 2018 11:41:37 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_110, Date: 16-Jan-2018, Time: 21:29:55, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		1.04e3	0.242		2.87				
2	4	PFHxA	313.2 > 268.9		2.51e3	0.242		3.36				
3	5	PFHpA	363.0 > 318.9		5.75e3	0.242		4.00				
4	6	L-PFHxS	398.9 > 79.6		7.10e2	0.242		3.94				
5	9	L-PFOA	413 > 368.7		7.25e3	0.242		4.34				
6	12	PFNA	463.0 > 418.8	2.89e3	7.88e3	0.242		4.94	4.73	4.59	14.0315	
7	14	L-PFOS	499 > 79.9	1.27e1	2.37e3	0.242		5.02	4.82	0.0671	0.4148	
8	16	PFDA	513 > 468.8	3.10e2	6.06e3	0.242		5.31	5.10	0.640	1.7958	
9	18	N-MeFOSAA	570.1 > 419		3.00e3	0.242		5.45				
10	19	N-EtFOSAA	584.2 > 419		3.50e3	0.242		5.60				
11	20	PFUdA	563.0 > 518.9		5.80e3	0.242		5.62				
12	22	PFDoA	612.9 > 569.0		3.73e3	0.242		5.91				

See origin. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-110.qld

Last Altered: Friday, January 19, 2018 11:41:19 Pacific Standard Time

Printed: Friday, January 19, 2018 11:42:43 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_110, Date: 16-Jan-2018, Time: 21:29:55, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	3.73e3	0.242		6.15				
2	25	PFTeDA	712.9 > 668.8	2.65e3	0.242		6.35				
3	33	13C3-PFBS	302. > 98.8	1.04e3	0.242	0.095	2.87	2.67	1.30	56.4344	109.5
4	34	13C2-PFHxA	315 > 269.8	2.51e3	0.242	0.636	3.36	3.17	3.15	20.4164	99.0
5	35	13C4-PFHpA	367.2 > 321.8	5.75e3	0.242	0.621	4.00	3.78	7.21	47.8836	92.9
6	36	18O2-PFHxS	403.0 > 102.6	7.10e2	0.242	0.336	4.14	3.93	3.49	42.8502	83.1
7	37	13C2-6:2 FTS	429.1 > 408.9	1.62e3	0.242	0.192	4.46	4.24	2.30	49.3105	95.6
8	38	13C2-PFOA	414.9 > 369.7	7.25e3	0.242	1.001	4.50	4.30	10.3	42.4153	82.3
9	39	13C5-PFNA	468.2 > 422.9	7.88e3	0.242	0.811	4.94	4.73	10.1	51.1330	99.2
10	40	13C8-PFOSA	506.1 > 77.7	1.59e3	0.242	0.196	5.00	4.79	2.35	49.3379	95.7
11	41	13C8-PFOS	507.0 > 79.9	2.37e3	0.242	0.862	5.02	4.81	11.0	52.5786	102.0
12	42	13C2-PFDA	515.1 > 469.9	6.06e3	0.242	0.996	5.31	5.10	13.8	57.1223	110.8
13	43	13C2-8:2 FTS	529.1 > 508.7	6.31e2	0.242	0.103	5.28	5.08	0.791	31.7043	61.5
14	44	d3-N-MeFOSAA	573.3 > 419	3.00e3	0.242	0.340	5.45	5.25	4.42	53.6518	104.1
15	45	d5-N-EtFOSAA	589.3 > 419	3.50e3	0.242	0.377	5.60	5.41	5.16	56.5310	109.6
16	46	13C2-PFUdA	565 > 519.8	5.80e3	0.242	0.944	5.62	5.43	8.55	37.3569	72.5
17	47	13C2-PFDoA	615.0 > 569.7	3.73e3	0.242	0.726	5.91	5.70	5.51	31.2737	60.7
18	49	13C2-PFTeDA	714.8 > 669.6	2.65e3	0.242	0.371	6.35	6.17	3.91	43.4376	84.3
19	55	13C5-PFHxA	318 > 272.9	9.97e3	0.242	1.000	3.36	3.16	12.5	51.5570	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.54e3	0.242	1.000	4.14	3.93	12.5	51.5570	100.0
21	57	13C8-PFOA	421.3 > 376	8.80e3	0.242	1.000	4.50	4.30	12.5	51.5570	100.0
22	58	13C9-PFNA	472.2 > 426.9	9.80e3	0.242	1.000	4.94	4.73	12.5	51.5570	100.0
23	59	13C4-PFOS	503 > 79.9	2.70e3	0.242	1.000	5.02	4.81	12.5	51.5570	100.0
24	60	13C6-PFDA	519.1 > 473.7	5.50e3	0.242	1.000	5.31	5.10	12.5	51.5570	100.0
25	61	13C7-PFUdA	570.1 > 524.8	8.48e3	0.242	1.000	5.62	5.43	12.5	51.5570	100.0
26	62	Total PFHxS	398.9 > 79.6	0.00e0	0.242		4.14		0.000		
27	63	Total PFOA	413 > 368.7	0.00e0	0.242		4.51		0.000		
28	64	Total PFOS	499 > 79.9	1.27e1	0.242		5.02		0.0671	0.4148	
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	0.242		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	0.242		5.61		0.000		

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-110.qld

Last Altered: Friday, January 19, 2018 11:41:19 Pacific Standard Time

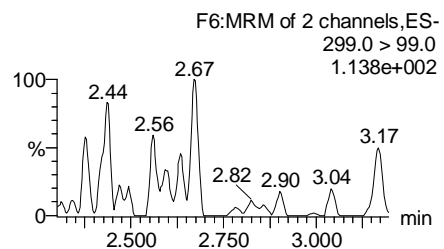
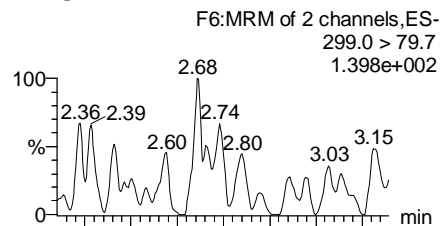
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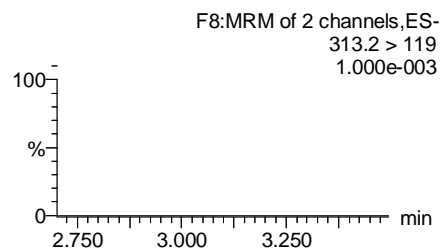
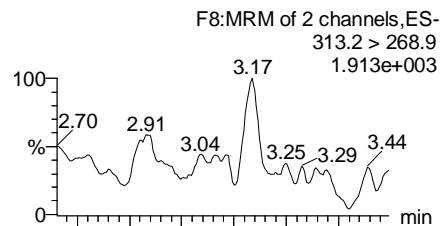
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Name: 180115M2_110, Date: 16-Jan-2018, Time: 21:29:55, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

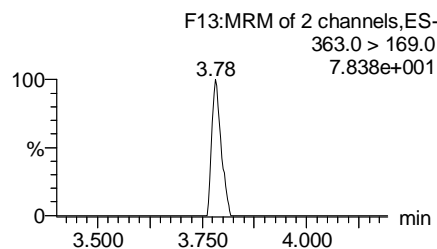
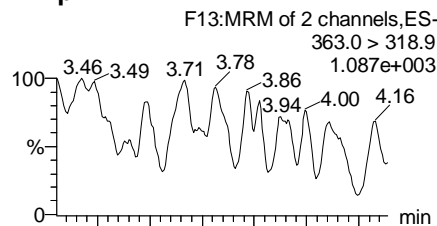
PFBS



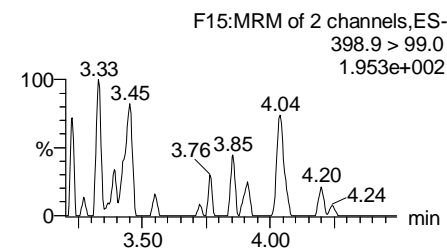
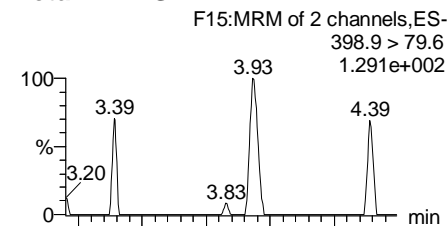
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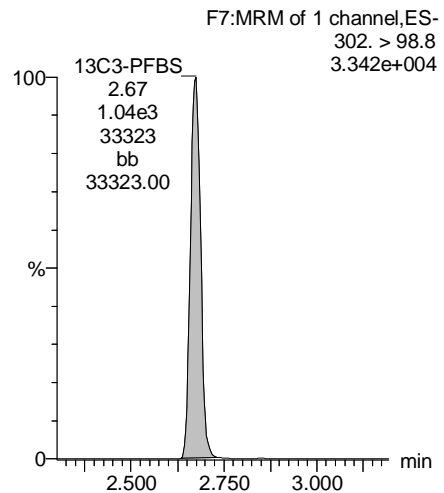
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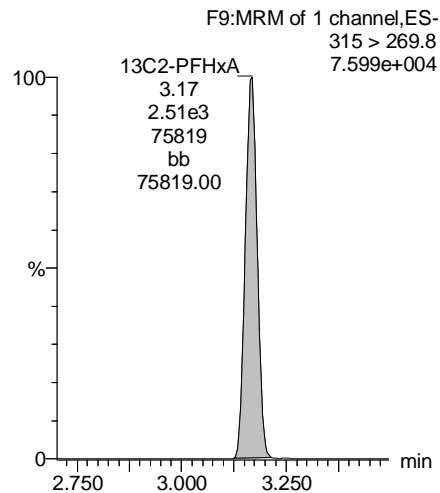
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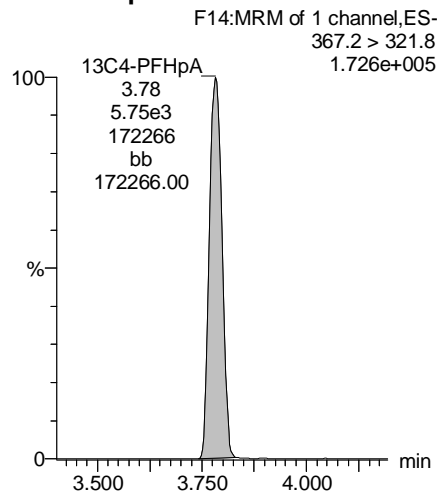
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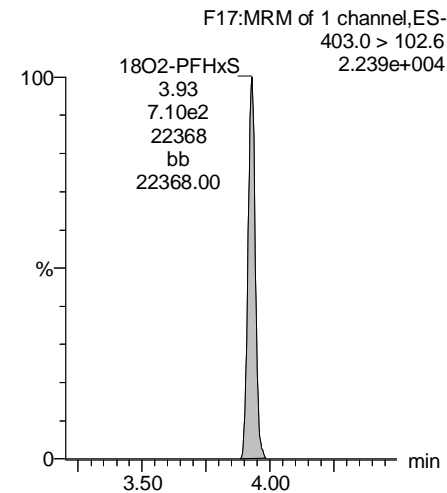
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13C4-PFHpA



18O2-PFHxS



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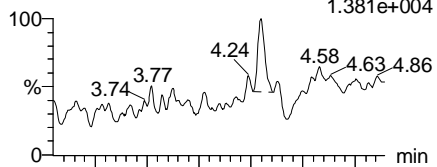
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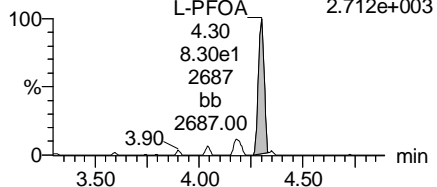
Name: 180115M2_110, Date: 16-Jan-2018, Time: 21:29:55, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

Total PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
1.381e+004

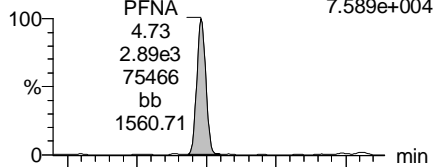


F18:MRM of 2 channels,ES-
413 > 169
2.712e+003

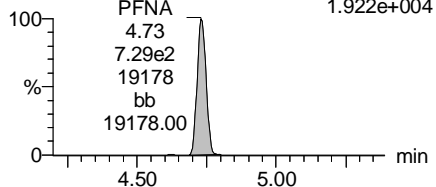


PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
7.589e+004

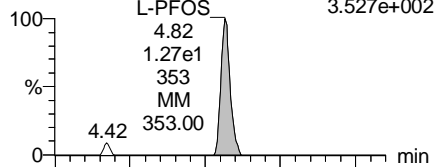


F24:MRM of 2 channels,ES-
463.0 > 219.0
1.922e+004

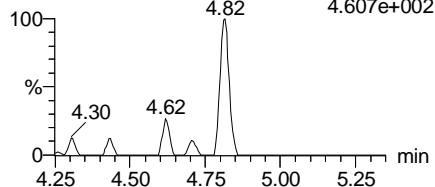


Total PFOS

F29:MRM of 2 channels,ES-
499 > 79.9
3.527e+002

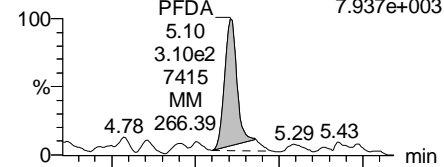


F29:MRM of 2 channels,ES-
499 > 99
4.607e+002

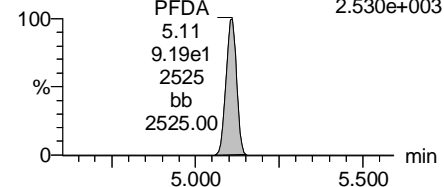


PFDA

F34:MRM of 2 channels,ES-
513 > 468.8
7.937e+003

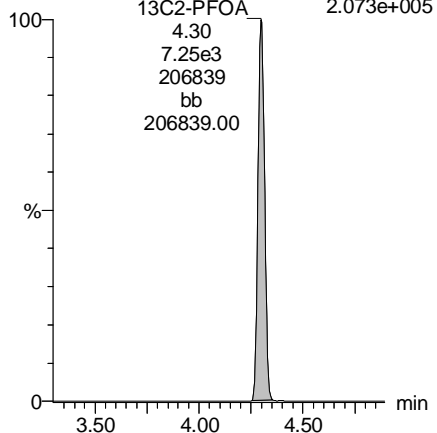


F34:MRM of 2 channels,ES-
513 > 219
2.530e+003



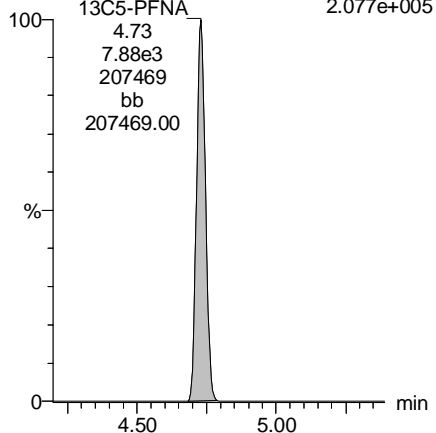
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
2.073e+005



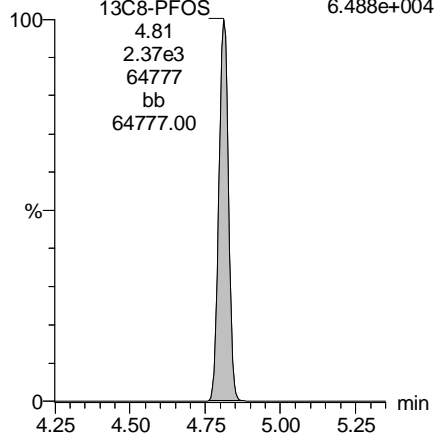
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
2.077e+005



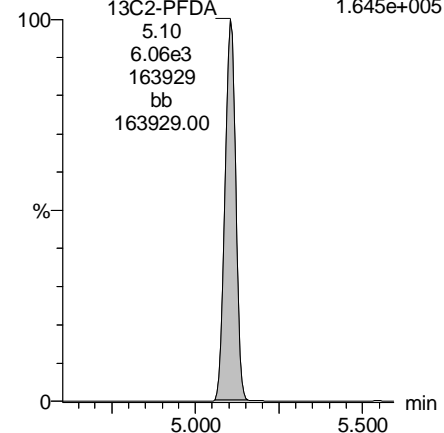
13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
6.488e+004



13C2-PFDA

F35:MRM of 1 channel,ES-
515.1 > 469.9
1.645e+005



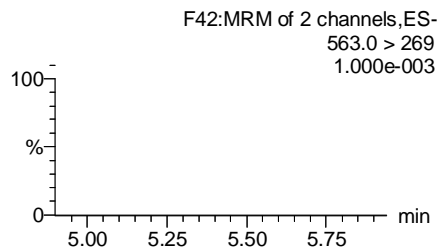
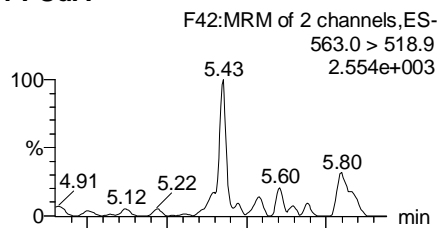
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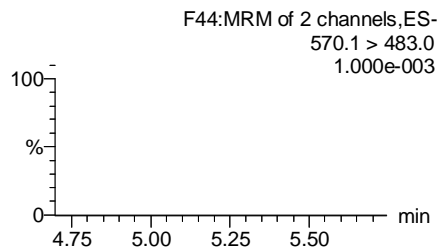
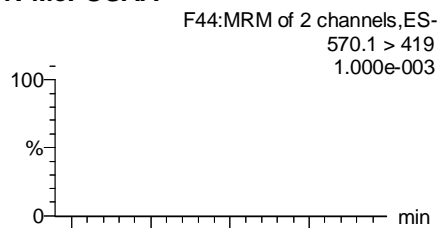
Printed: Friday, January 19, 2018 11:42:43 Pacific Standard Time

Name: 180115M2_110, Date: 16-Jan-2018, Time: 21:29:55, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

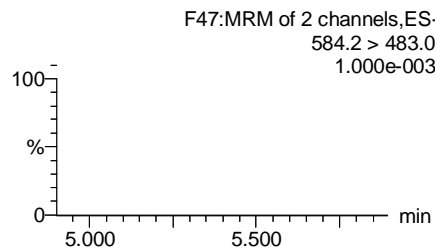
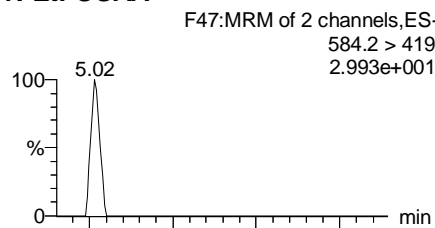
PFUdA



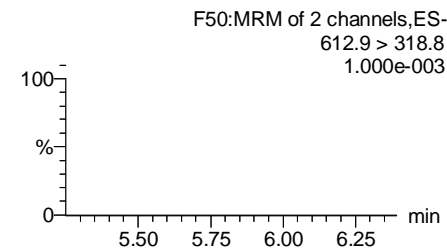
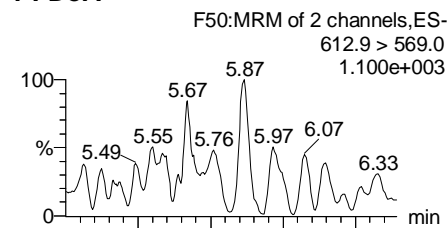
N-MeFOSAA



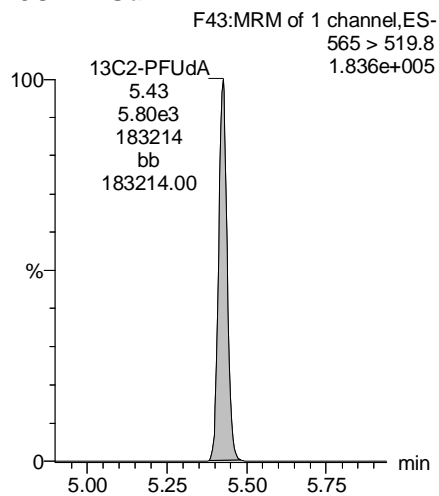
N-EtFOSAA



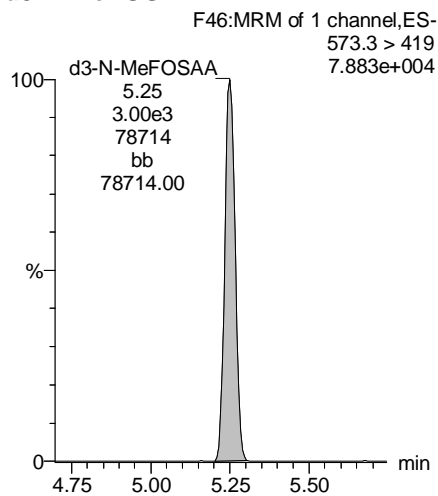
PFDaA



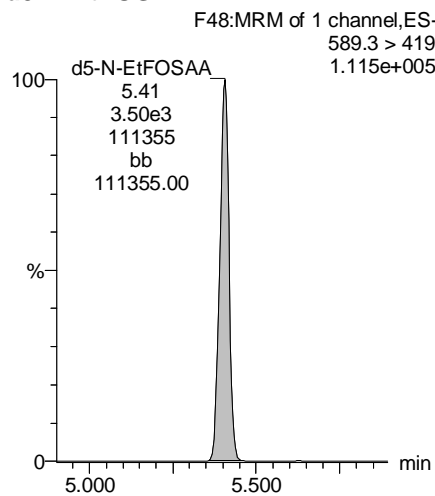
13C2-PFUdA



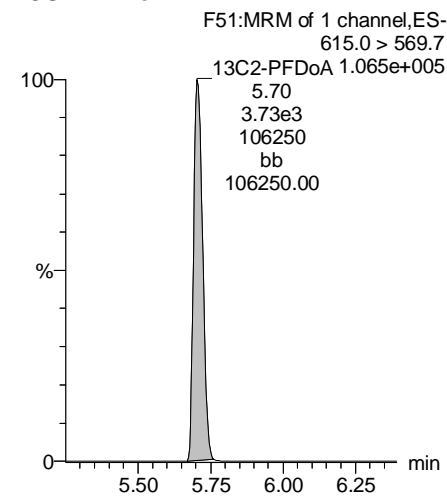
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-110.qld

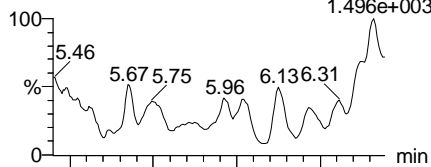
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Printed: Friday, January 19, 2018 11:42:43 Pacific Standard Time

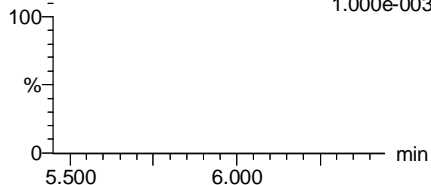
Name: 180115M2_110, Date: 16-Jan-2018, Time: 21:29:55, ID: 1701953-07 SA-PZ123S-20171213 0.24245, Description: SA-PZ123S-20171213

PFTrDA

F56:MRM of 2 channels,ES-
662.9 > 618.9
1.496e+003

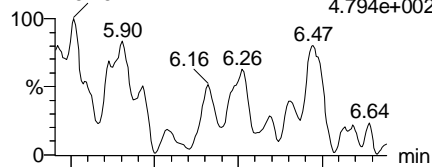


F56:MRM of 2 channels,ES-
662.9 > 319
1.000e-003

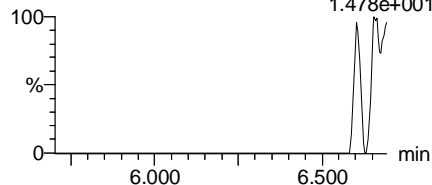


PFTeDA

F57:MRM of 2 channels,ES-
712.9 > 668.8
4.794e+002

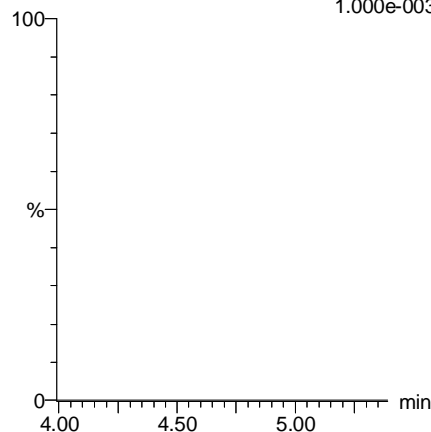


F57:MRM of 2 channels,ES-
712.9 > 369
1.478e+001



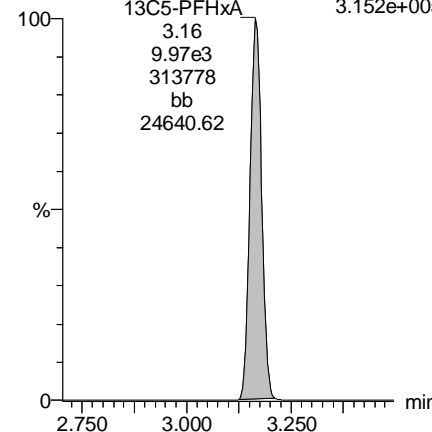
TCDA

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



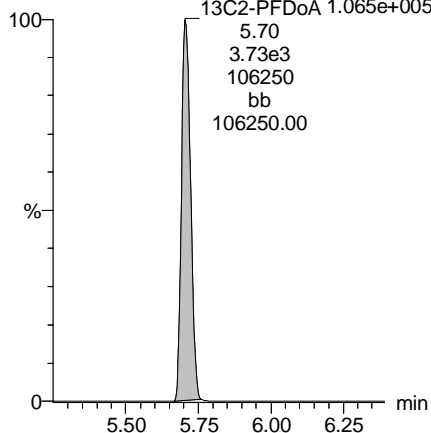
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.152e+005



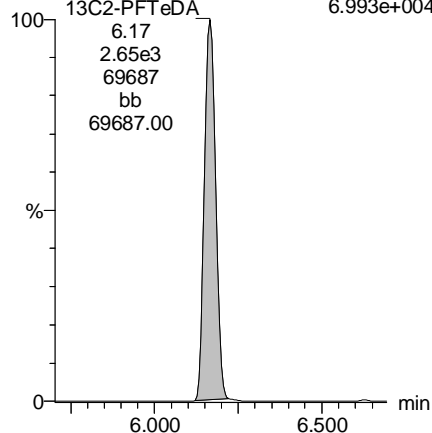
13C2-PFDoA

F51:MRM of 1 channel,ES-
615.0 > 569.7
1.065e+005



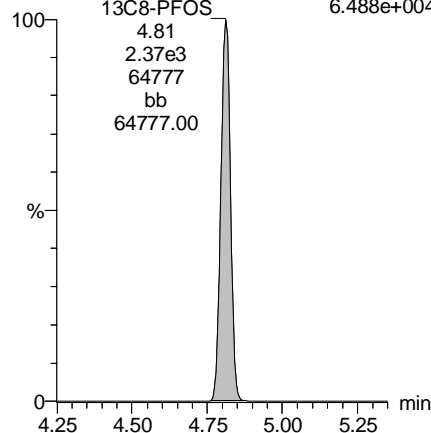
13C2-PFTeDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
6.993e+004



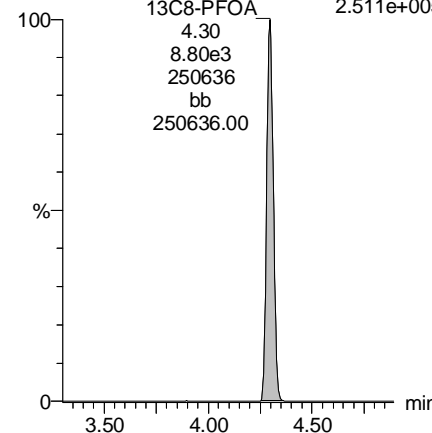
13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
6.488e+004



13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
2.511e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-110.qld

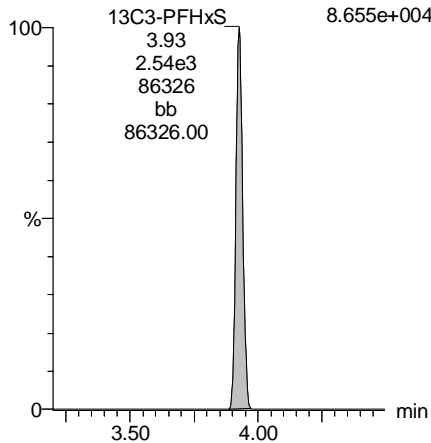
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Printed: Friday, January 19, 2018 11:42:43 Pacific Standard Time

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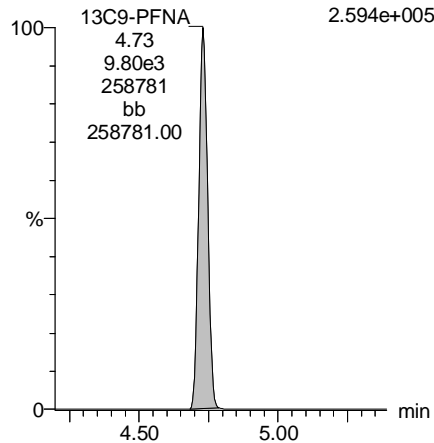
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
8.655e+004



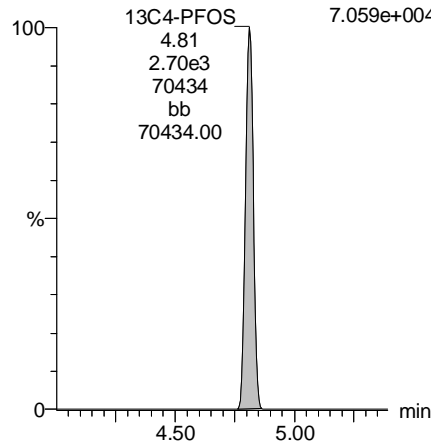
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.594e+005



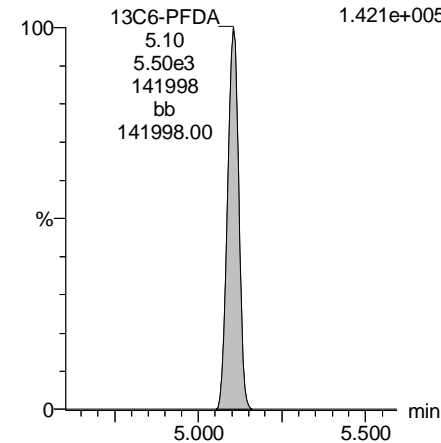
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
7.059e+004



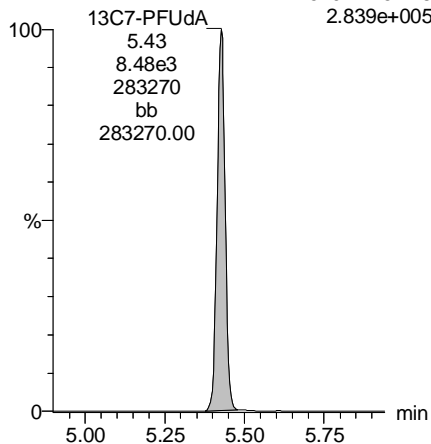
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.421e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.839e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-55.qld

Last Altered: Tuesday, January 16, 2018 13:39:36 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:39:58 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

*See dilution.

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

Name: 180115M2_55, Date: 16-Jan-2018, Time: 10:39:51, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	4.80e1	8.69e2	0.257		2.87	2.72	0.691	0.9127	
2	4 PFHxA	313.2 > 268.9	2.73e3	2.04e3	0.257		3.36	3.22	6.68	14.7861	
3	5 PFHpA	363.0 > 318.9	3.05e3	5.05e3	0.257		4.00	3.84	7.55	19.7853	
4	6 L-PFHxS	398.9 > 79.6	9.32e1	6.09e2	0.257		4.14	3.98	1.91	3.4680	
5	9 L-PFOA	413 > 368.7		7.41e3	0.257		4.50				
6	12 PFNA	463.0 > 418.8	2.29e5	5.62e3	0.257		4.94	4.78	510	1155.1182	E*
7	14 L-PFOS	499 > 79.9	1.59e2	2.09e3	0.257		5.02	4.85	0.951	3.4929	
8	16 PFDA	513 > 468.8	4.33e3	4.19e3	0.257		5.31	5.14	12.9	34.9101	
9	18 N-MeFOSAA	570.1 > 419		2.08e3	0.257		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.54e3	0.257		5.60				
11	20 PFUdA	563.0 > 518.9	3.41e4	6.04e3	0.257		5.62	5.46	70.6		
12	22 PFDaA	612.9 > 569.0		3.21e3	0.257		5.91				

Use only

Dataset: U:\Q4.PRO\results\180115M2\180115M2-55.qld

Last Altered: Tuesday, January 16, 2018 13:39:36 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:05:49 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_55, Date: 16-Jan-2018, Time: 10:39:51, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.21e3	0.257		6.15				
2	25 PFTeDA	712.9 > 668.8		2.23e3	0.257		6.35				
3	33 13C3-PFBS	302. > 98.8	8.69e2	8.84e3	0.257	0.095	2.87	2.72	1.23	50.3390	103.5
4	34 13C2-PFHxA	315 > 269.8	2.04e3	8.84e3	0.257	0.636	3.36	3.22	2.89	17.6562	90.8
5	35 13C4-PFHpA	367.2 > 321.8	5.05e3	8.84e3	0.257	0.621	4.00	3.83	7.14	44.7609	92.0
6	36 18O2-PFHxS	403.0 > 102.6	6.09e2	2.34e3	0.257	0.336	4.14	3.98	3.25	37.6997	77.5
7	37 13C2-6:2 FTS	429.1 > 408.9	1.45e3	8.64e3	0.257	0.192	4.46	4.29	2.10	42.4937	87.4
8	38 13C2-PFOA	414.9 > 369.7	7.41e3	8.64e3	0.257	1.001	4.50	4.35	10.7	41.6796	85.7
9	39 13C5-PFNA	468.2 > 422.9	5.62e3	7.35e3	0.257	0.811	4.94	4.78	9.56	45.8657	94.3
10	40 13C8-PFOA	506.1 > 77.7	1.19e3	6.79e3	0.257	0.196	5.00	4.84	2.20	43.5625	89.6
11	41 13C8-PFOS	507.0 > 79.9	2.09e3	2.57e3	0.257	0.862	5.02	4.85	10.2	45.8685	94.3
12	42 13C2-PFDA	515.1 > 469.9	4.19e3	4.27e3	0.257	0.996	5.31	5.15	12.3	47.9679	98.6
13	43 13C2-8:2 FTS	529.1 > 508.7	6.18e2	8.84e3	0.257	0.103	5.28	5.11	0.875	33.0469	67.9
14	44 d3-N-MeFOSAA	573.3 > 419	2.08e3	6.79e3	0.257	0.340	5.45	5.28	3.83	43.8750	90.2
15	45 d5-N-EtFOSAA	589.3 > 419	2.54e3	6.79e3	0.257	0.377	5.60	5.44	4.68	48.3627	99.4
16	46 13C2-PFUdA	565 > 519.8	6.04e3	6.79e3	0.257	0.944	5.62	5.47	11.1	45.8370	94.2
17	47 13C2-PFDoA	615.0 > 569.7	3.21e3	6.79e3	0.257	0.726	5.91	5.75	5.91	31.6516	65.1
18	49 13C2-PFTeDA	714.8 > 669.6	2.23e3	6.79e3	0.257	0.371	6.35	6.20	4.10	42.9464	88.3
19	55 13C5-PFHxA	318 > 272.9	8.84e3	8.84e3	0.257	1.000	3.36	3.22	12.5	48.6343	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.34e3	2.34e3	0.257	1.000	4.14	3.98	12.5	48.6343	100.0
21	57 13C8-PFOA	421.3 > 376	8.64e3	8.64e3	0.257	1.000	4.50	4.35	12.5	48.6343	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.35e3	7.35e3	0.257	1.000	4.94	4.78	12.5	48.6343	100.0
23	59 13C4-PFOS	503 > 79.9	2.57e3	2.57e3	0.257	1.000	5.02	4.85	12.5	48.6343	100.0
24	60 13C6-PFDA	519.1 > 473.7	4.27e3	4.27e3	0.257	1.000	5.31	5.14	12.5	48.6343	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.79e3	6.79e3	0.257	1.000	5.62	5.46	12.5	48.6343	100.0
26	62 Total PFHxS	398.9 > 79.6	9.32e1	6.09e2	0.257		4.14		1.91	3.4680	
27	63 Total PFOA	413 > 368.7	6.41e3	7.41e3	0.257		4.51		10.8	36.3446	
28	64 Total PFOS	499 > 79.9	1.59e2	2.09e3	0.257		5.02		0.951	3.4929	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.08e3	0.257		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.54e3	0.257		5.61		0.000		

Use only

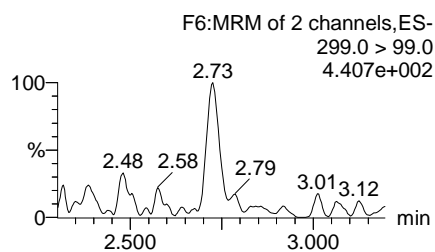
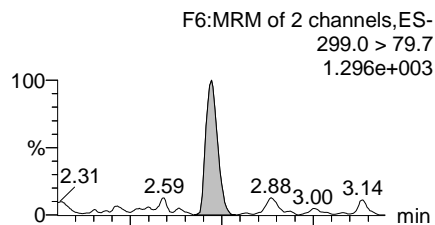
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Printed: Tuesday, January 16, 2018 13:40:08 Pacific Standard Time

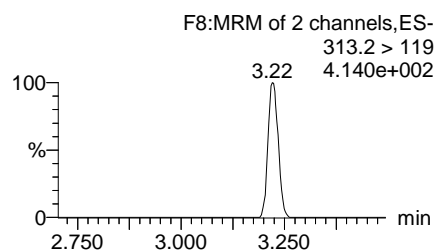
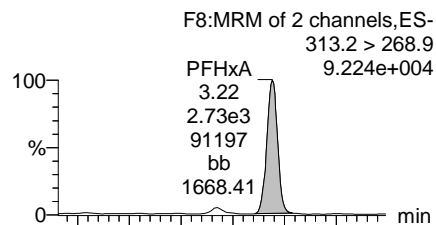
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Name: 180115M2_55, Date: 16-Jan-2018, Time: 10:39:51, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

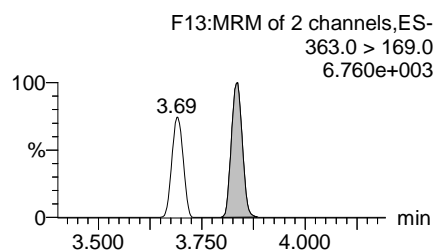
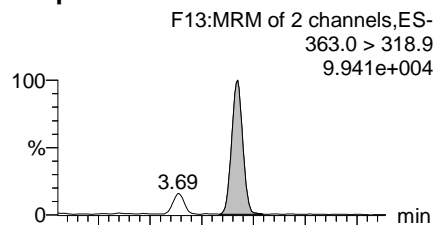
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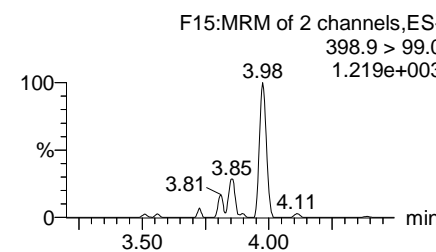
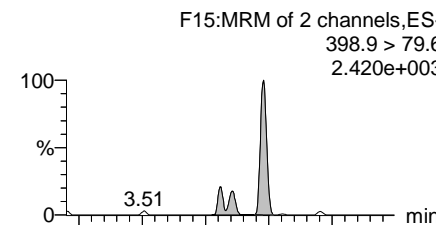
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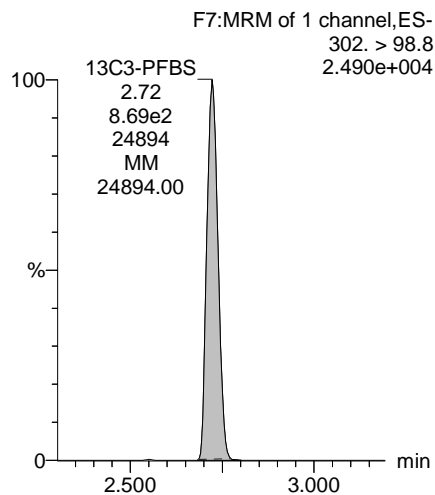
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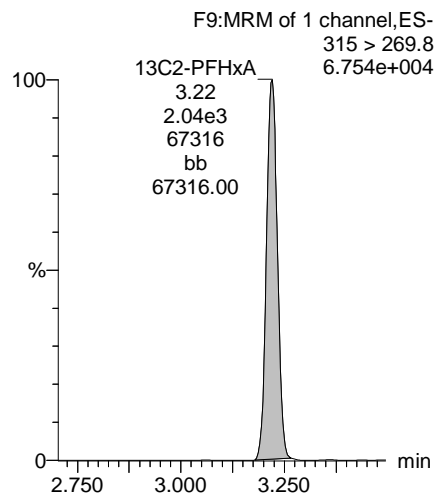
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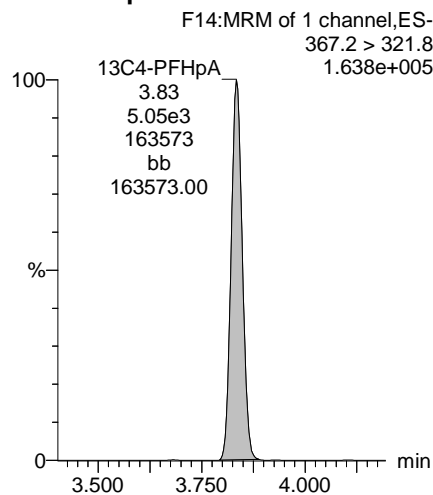
13C3-PFBS



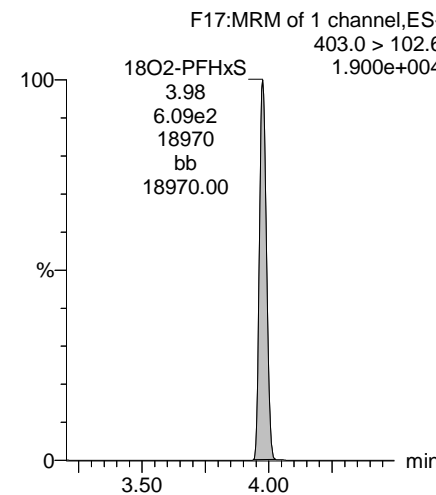
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13C4-PFHpA



18O2-PFHxS



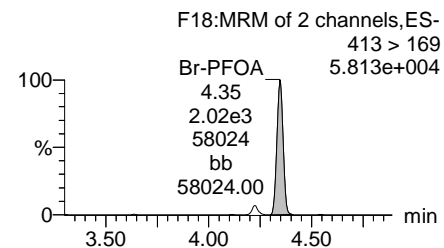
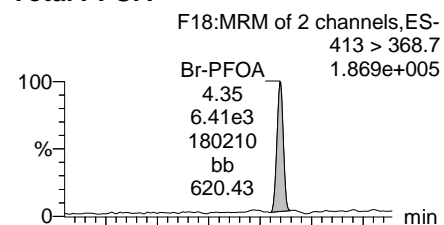
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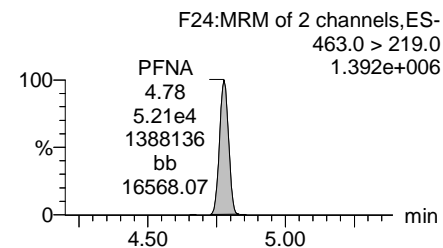
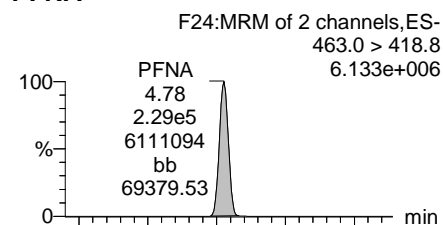
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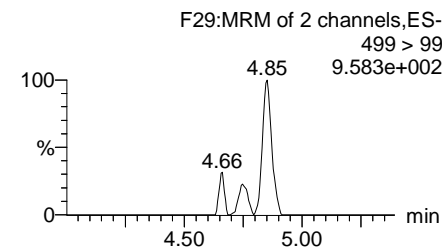
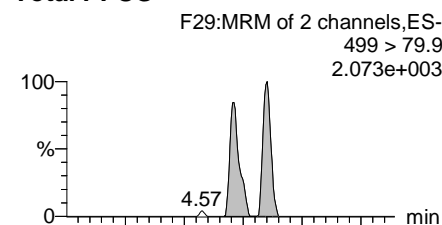
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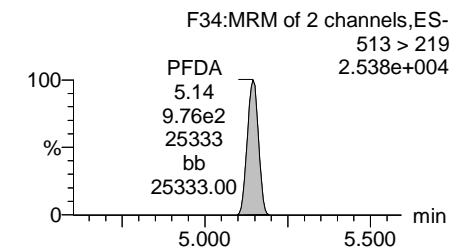
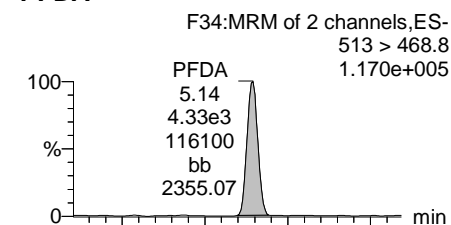
PFNA



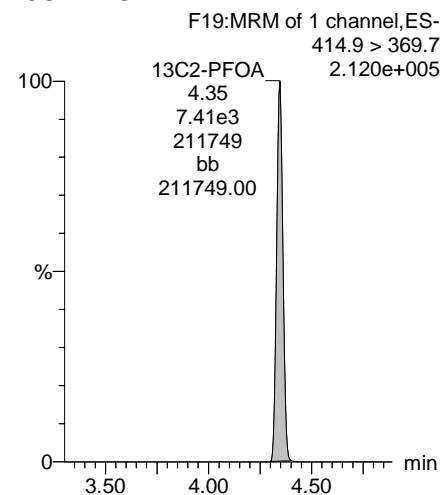
Total PFOS



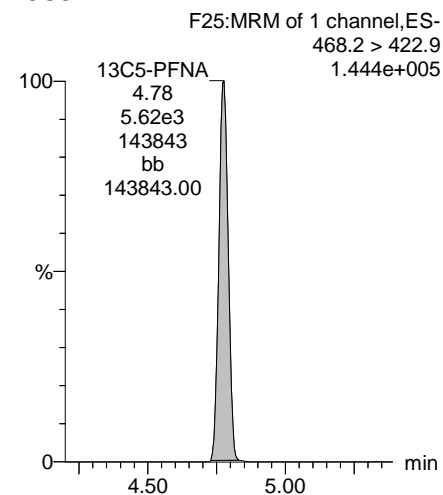
PFDA



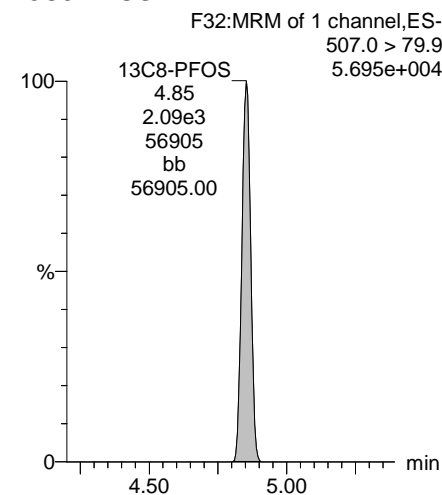
13C2-PFOA



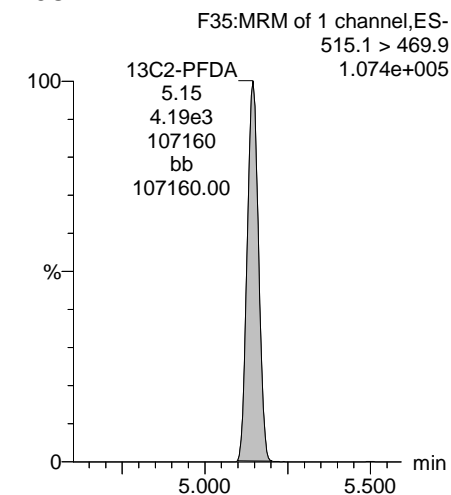
13C5-PFNA



13C8-PFOS



13C2-PFDA

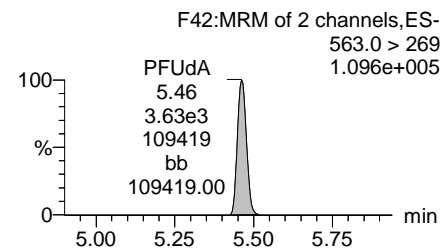
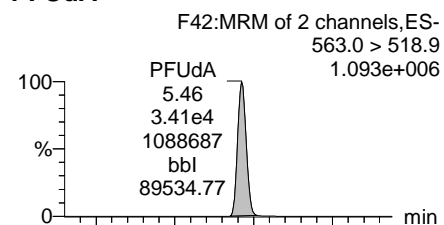


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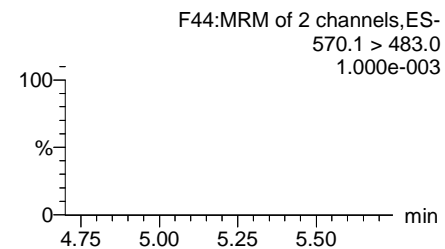
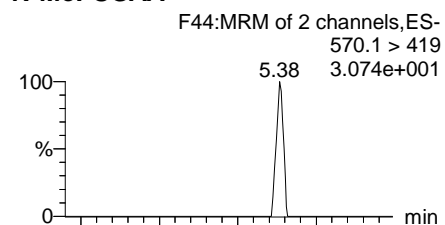
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Printed: Tuesday, January 16, 2018 13:40:08 Pacific Standard Time

Name: 180115M2_55, Date: 16-Jan-2018, Time: 10:39:51, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

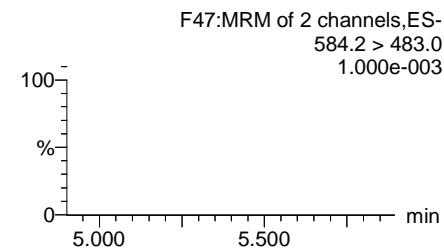
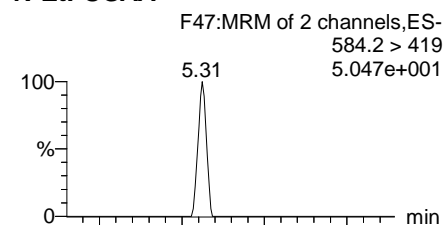
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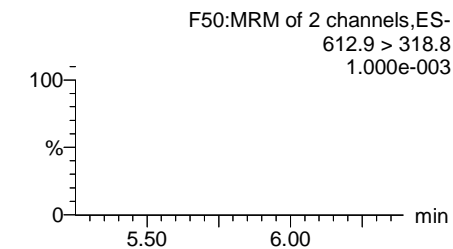
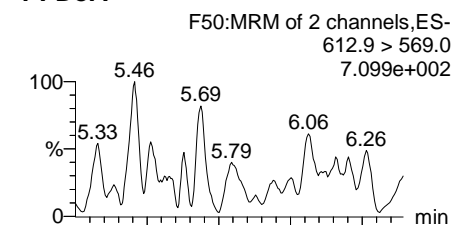
N-MeFOSAA



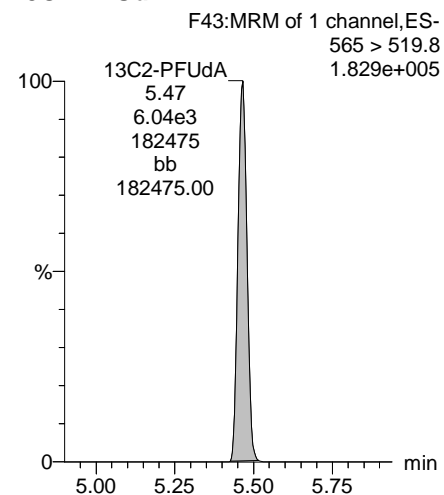
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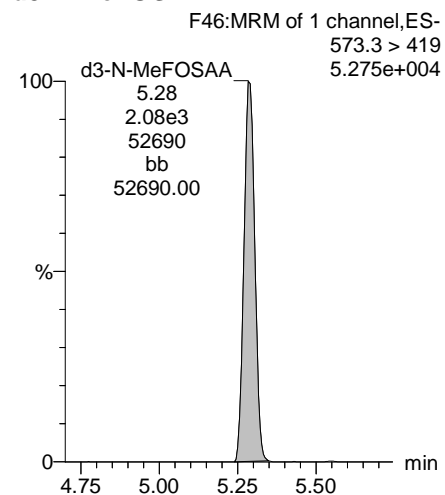
PFDoA



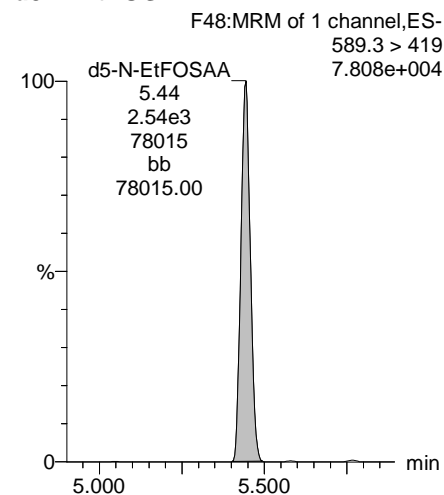
13C2-PFUdA



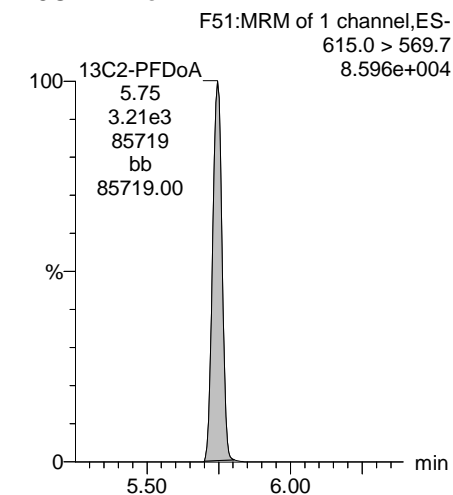
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA

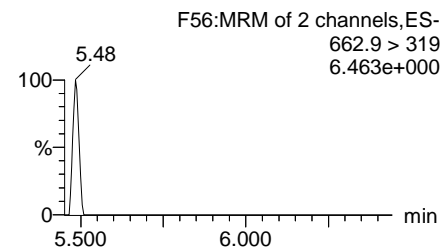
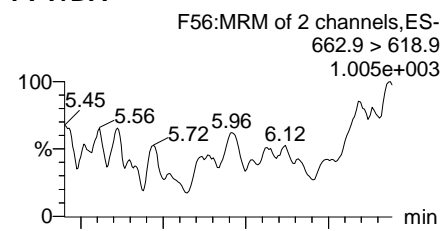


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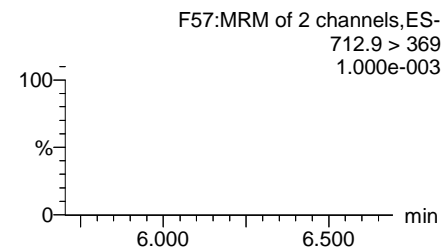
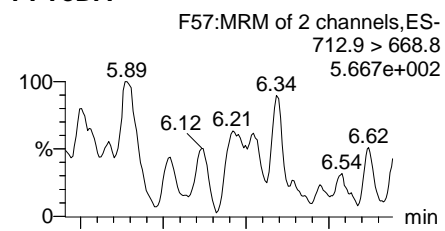
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Printed: Tuesday, January 16, 2018 13:40:08 Pacific Standard Time

Name: 180115M2_55, Date: 16-Jan-2018, Time: 10:39:51, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

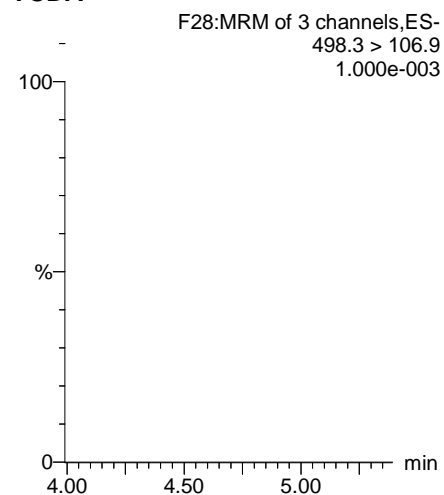
PFTrDA



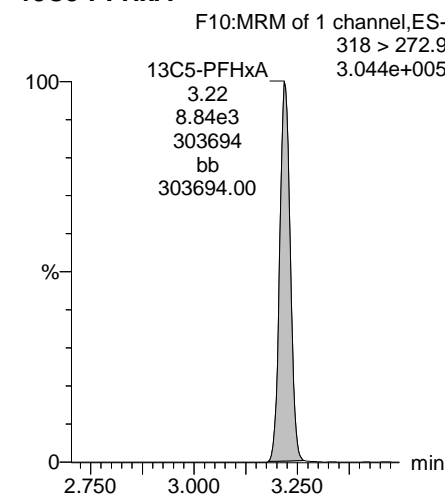
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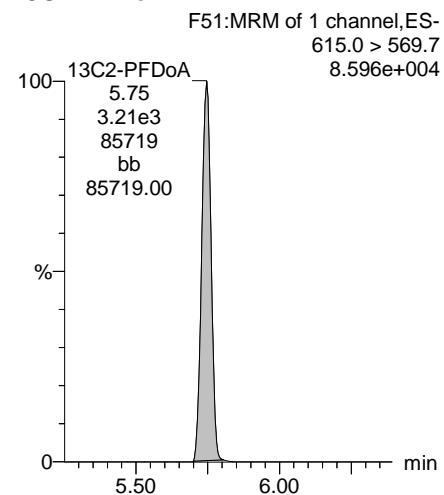
TCDA



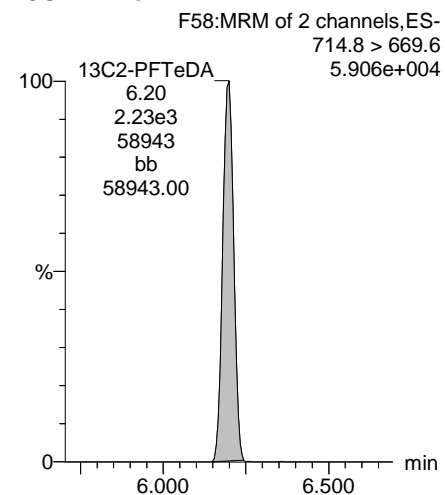
13C5-PFHxA



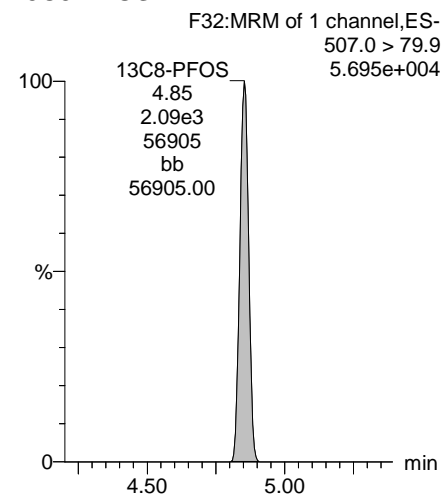
13C2-PFDoA



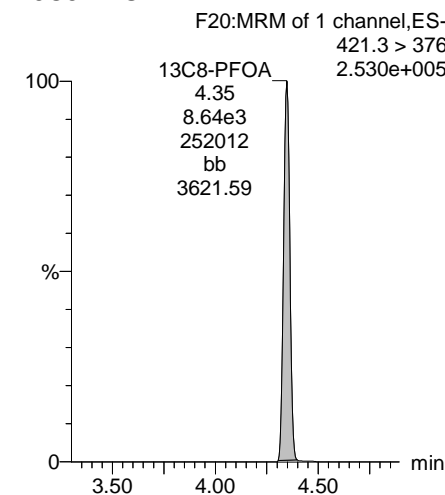
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

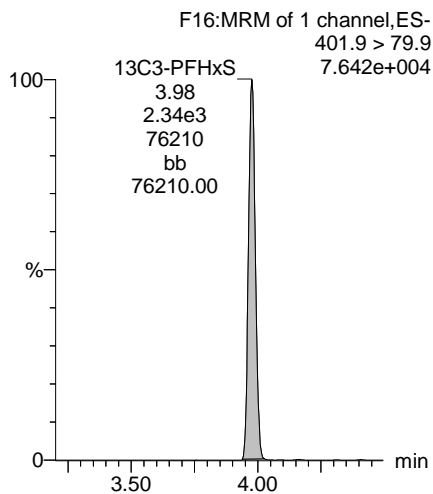


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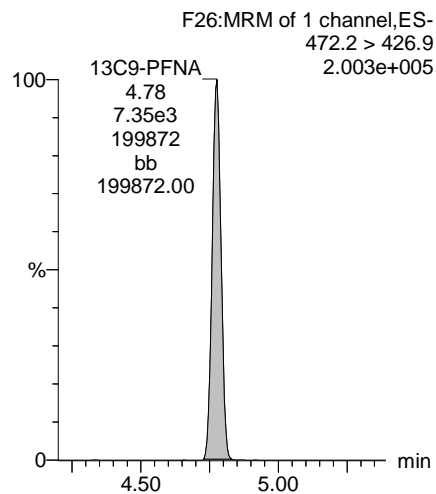
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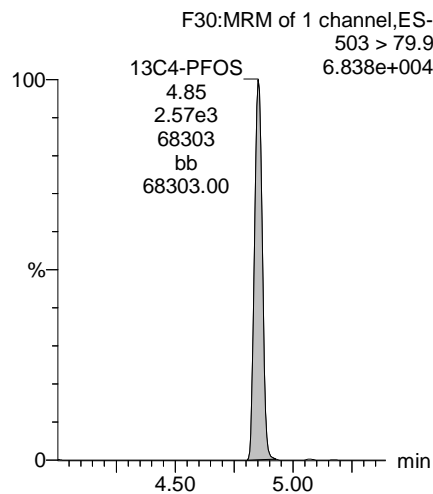
13C3-PFHxS



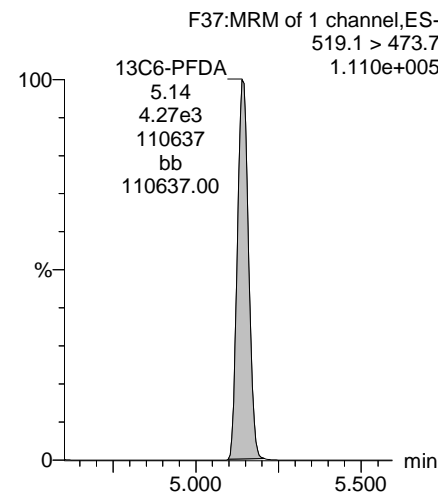
13C9-PFNA



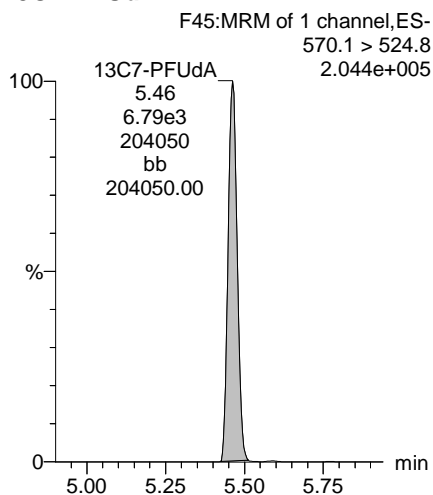
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-111.qld

Last Altered: Thursday, January 18, 2018 11:45:23 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:45:55 Pacific Standard Time

*See dilution.

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_111, Date: 16-Jan-2018, Time: 21:41:23, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	5.06e1	9.53e2	0.257		2.87	2.67	0.664	0.8575	
2	4 PFHxA	313.2 > 268.9	2.75e3	2.13e3	0.257		3.36	3.16	6.43	14.2322	
3	5 PFHpA	363.0 > 318.9	3.26e3	5.18e3	0.257		4.00	3.78	7.88	20.6327	
4	6 L-PFHxS	398.9 > 79.6	1.24e2	7.40e2	0.257		3.94	3.93	2.10	3.8170	
5	9 L-PFOA	413 > 368.7	6.13e3	6.29e3	0.257		4.34	4.30	12.2	41.0812	
6	12 PFNA	463.0 > 418.8	2.43e5	5.51e3	0.257		4.94	4.73	550	1228.6937 E*	
7	14 L-PFOS	499 > 79.9	1.06e2	2.09e3	0.257		5.02	4.81	0.636	2.3880	
8	16 PFDA	513 > 468.8	4.64e3	5.21e3	0.257		5.31	5.10	11.1	30.0931	
9	18 N-MeFOSAA	570.1 > 419		2.39e3	0.257		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.49e3	0.257		5.60				
11	20 PFUdA	563.0 > 518.9	3.52e4	5.59e3	0.257		5.62	5.43	78.8		
12	22 PFDoA	612.9 > 569.0		4.53e3	0.257		5.91				

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-111.qld

Last Altered: Thursday, January 18, 2018 11:45:23 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:46:03 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_111, Date: 16-Jan-2018, Time: 21:41:23, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		4.53e3	0.257		6.15				
2	25 PFTeDA	712.9 > 668.8		2.15e3	0.257		6.35				
3	33 13C3-PFBS	302. > 98.8	9.53e2	8.21e3	0.257	0.095	2.87	2.67	1.45	59.4248	122.2
4	34 13C2-PFHxA	315 > 269.8	2.13e3	8.21e3	0.257	0.636	3.36	3.16	3.25	19.8772	102.2
5	35 13C4-PFHpA	367.2 > 321.8	5.18e3	8.21e3	0.257	0.621	4.00	3.78	7.89	49.4523	101.7
6	36 18O2-PFHxS	403.0 > 102.6	7.40e2	2.41e3	0.257	0.336	4.14	3.93	3.83	44.4214	91.3
7	37 13C2-6:2 FTS	429.1 > 408.9	1.31e3	7.57e3	0.257	0.192	4.46	4.25	2.17	43.7998	90.1
8	38 13C2-PFOA	414.9 > 369.7	6.29e3	7.57e3	0.257	1.001	4.50	4.30	10.4	40.3585	83.0
9	39 13C5-PFNA	468.2 > 422.9	5.51e3	7.44e3	0.257	0.811	4.94	4.73	9.26	44.4306	91.4
10	40 13C8-PFOA	506.1 > 77.7	1.38e3	6.94e3	0.257	0.196	5.00	4.79	2.48	49.0793	100.9
11	41 13C8-PFOS	507.0 > 79.9	2.09e3	2.34e3	0.257	0.862	5.02	4.81	11.2	50.4388	103.7
12	42 13C2-PFDA	515.1 > 469.9	5.21e3	5.67e3	0.257	0.996	5.31	5.10	11.5	44.9094	92.3
13	43 13C2-8:2 FTS	529.1 > 508.7	6.31e2	8.21e3	0.257	0.103	5.28	5.08	0.961	36.3011	74.6
14	44 d3-N-MeFOSAA	573.3 > 419	2.39e3	6.94e3	0.257	0.340	5.45	5.25	4.31	49.3083	101.4
15	45 d5-N-EtFOSAA	589.3 > 419	2.49e3	6.94e3	0.257	0.377	5.60	5.41	4.48	46.2664	95.1
16	46 13C2-PFUdA	565 > 519.8	5.59e3	6.94e3	0.257	0.944	5.62	5.43	10.1	41.5038	85.3
17	47 13C2-PFDoA	615.0 > 569.7	4.53e3	6.94e3	0.257	0.726	5.91	5.71	8.16	43.7083	89.9
18	49 13C2-PFTeDA	714.8 > 669.6	2.15e3	6.94e3	0.257	0.371	6.35	6.17	3.87	40.4978	83.3
19	55 13C5-PFHxA	318 > 272.9	8.21e3	8.21e3	0.257	1.000	3.36	3.16	12.5	48.6343	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.41e3	2.41e3	0.257	1.000	4.14	3.93	12.5	48.6343	100.0
21	57 13C8-PFOA	421.3 > 376	7.57e3	7.57e3	0.257	1.000	4.50	4.30	12.5	48.6343	100.0
22	58 13C9-PFNA	472.2 > 426.9	7.44e3	7.44e3	0.257	1.000	4.94	4.73	12.5	48.6343	100.0
23	59 13C4-PFOS	503 > 79.9	2.34e3	2.34e3	0.257	1.000	5.02	4.81	12.5	48.6343	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.67e3	5.67e3	0.257	1.000	5.31	5.10	12.5	48.6343	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.94e3	6.94e3	0.257	1.000	5.62	5.43	12.5	48.6343	100.0
26	62 Total PFHxS	398.9 > 79.6	1.24e2	7.40e2	0.257		4.14		2.10	3.8170	
27	63 Total PFOA	413 > 368.7	6.13e3	6.29e3	0.257		4.51		12.2	41.0812	
28	64 Total PFOS	499 > 79.9	1.06e2	2.09e3	0.257		5.02		0.636	2.3880	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.39e3	0.257		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.49e3	0.257		5.61		0.000		

See original run

Dataset: U:\Q4.PRO\results\180115M2\180115M2-111.qld

Last Altered: Thursday, January 18, 2018 11:45:23 Pacific Standard Time

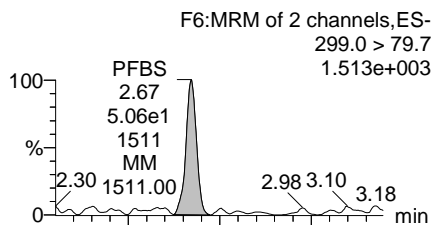
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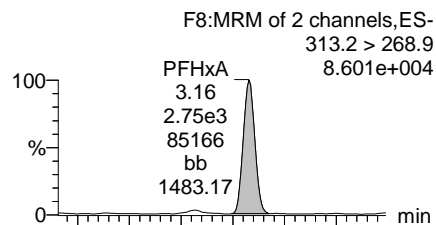
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Name: 180115M2_111, Date: 16-Jan-2018, Time: 21:41:23, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

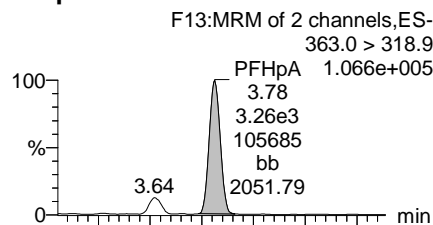
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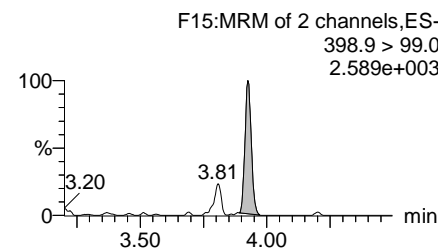
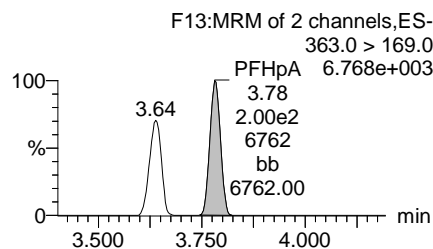
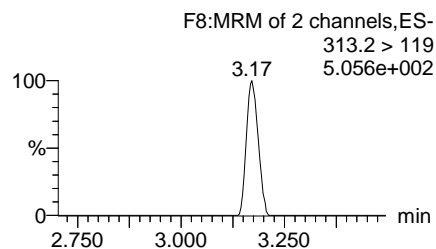
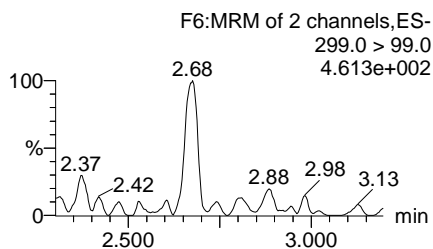
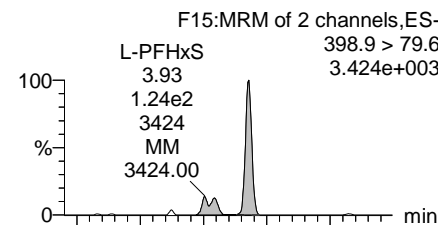
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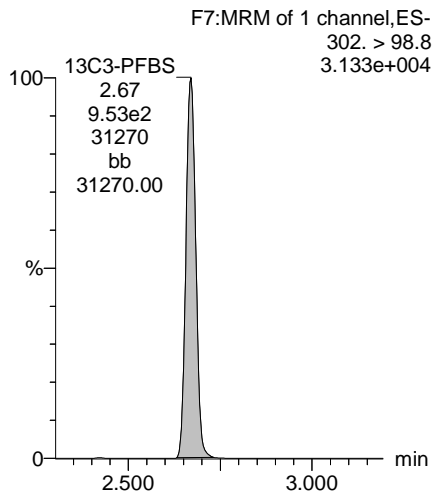
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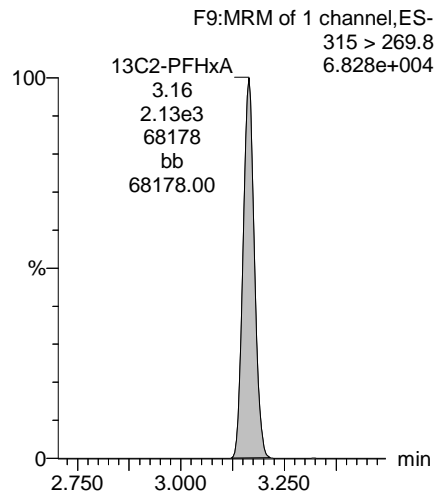
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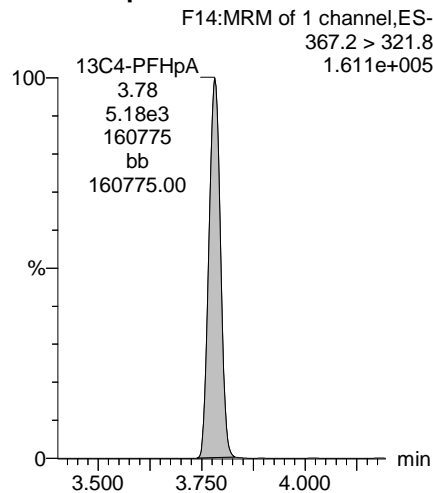
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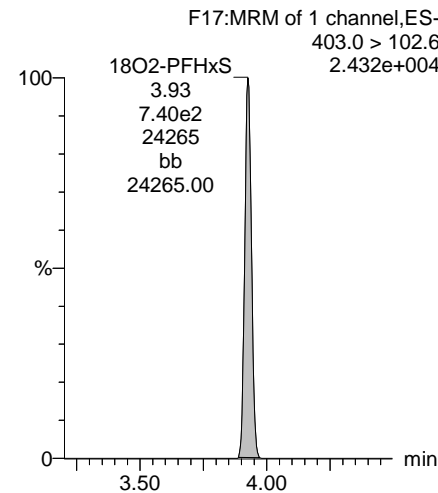
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



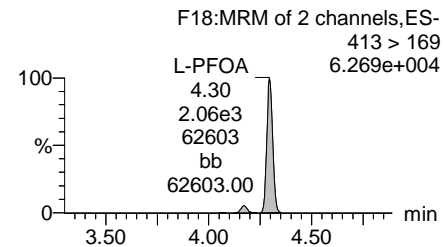
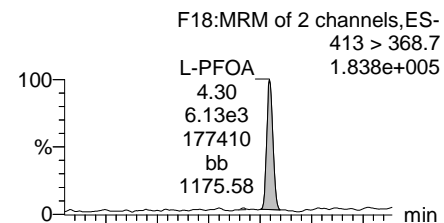
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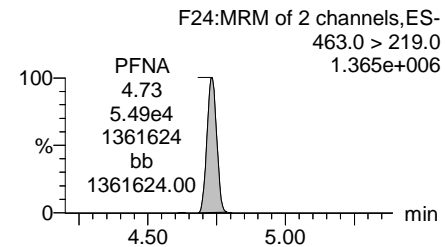
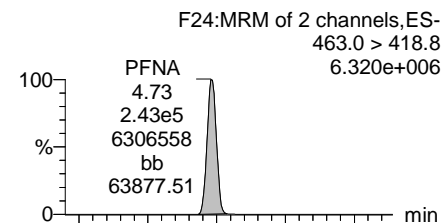
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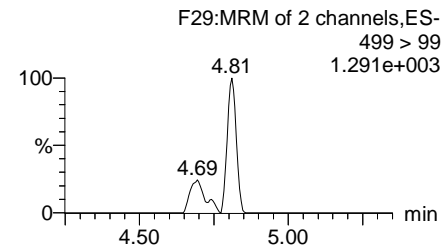
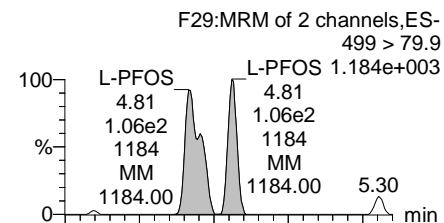
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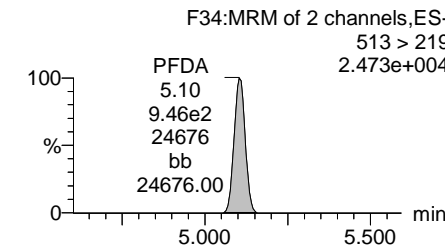
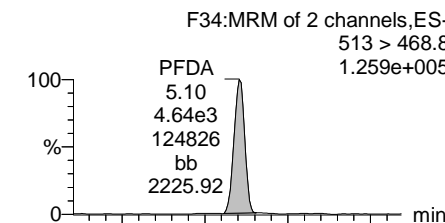
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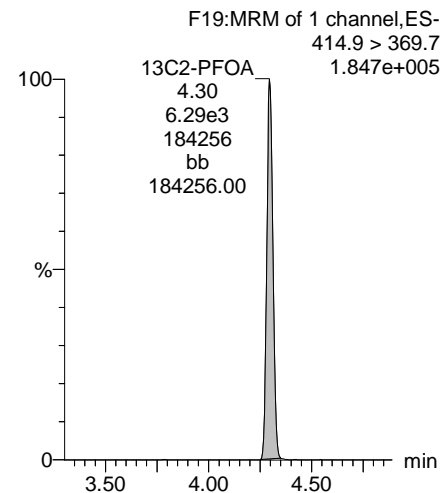
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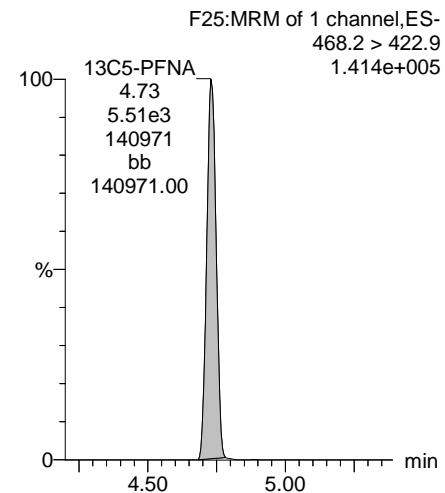
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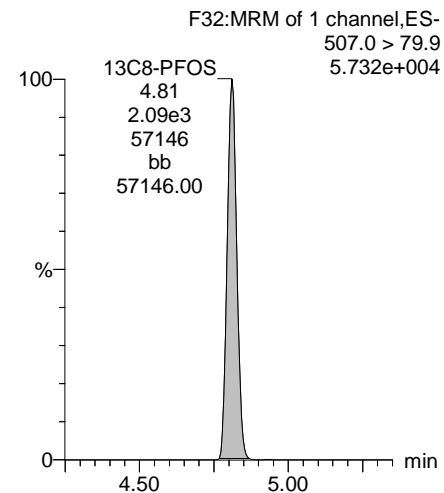
13C2-PFOA



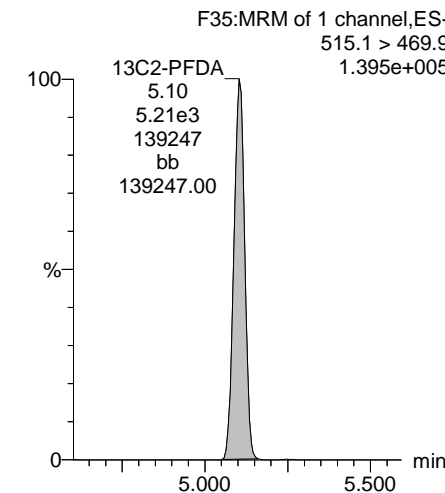
13C5-PFNA



13C8-PFOS



13C2-PFDA



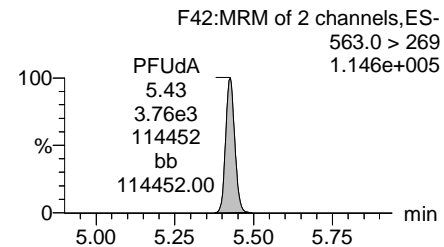
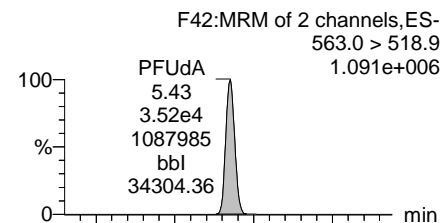
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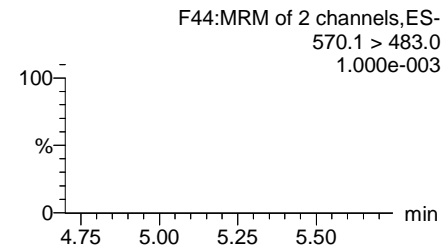
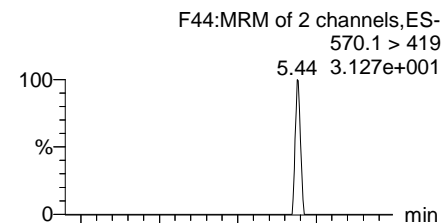
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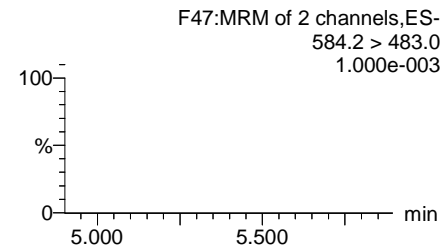
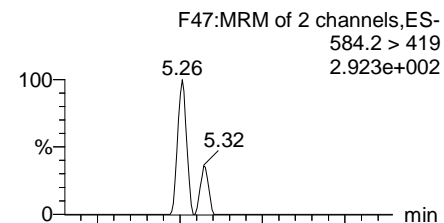
PFUdA



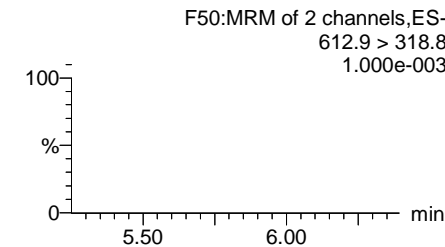
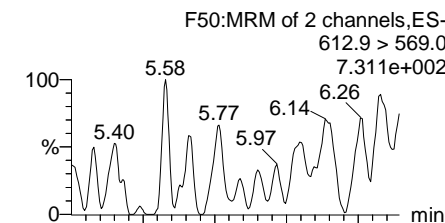
N-MeFOSAA



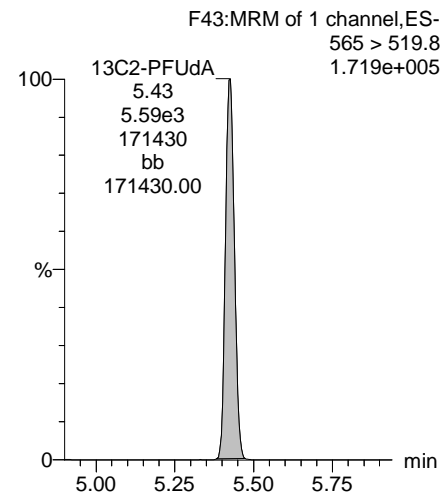
N-EtFOSAA



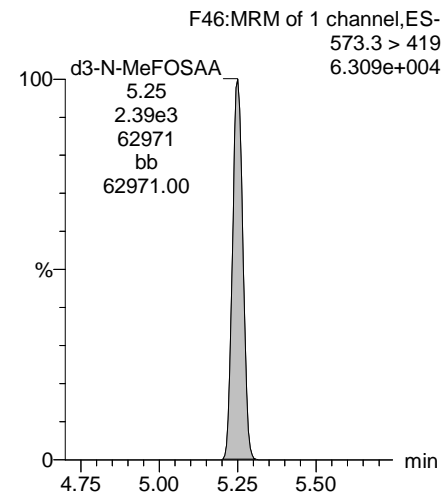
PFDoA



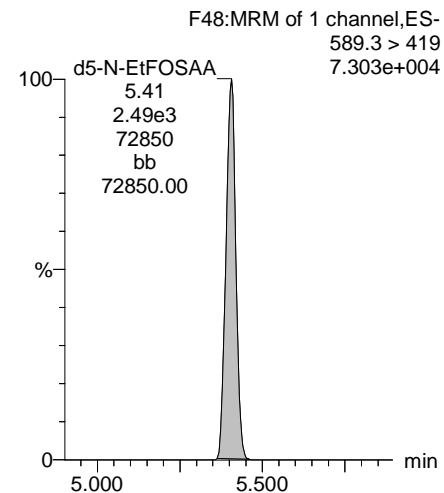
13C2-PFUdA



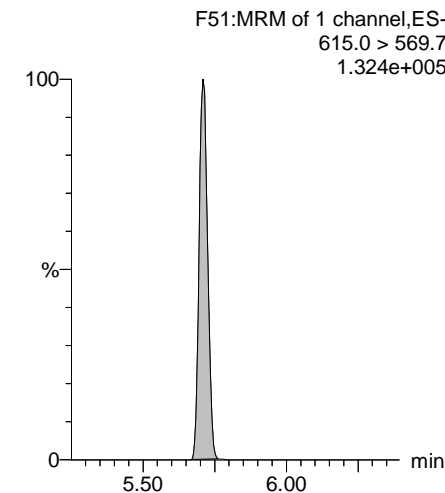
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA



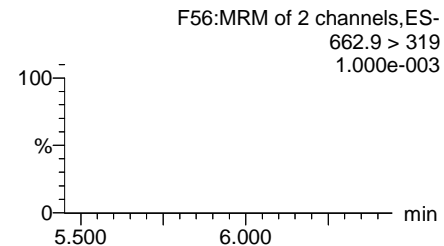
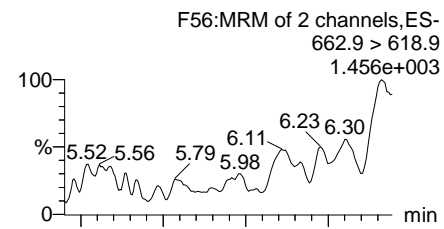
Dataset: U:\Q4.PRO\results\180115M2\180115M2-111.qld

Last Altered: Thursday, January 18, 2018 11:45:23 Pacific Standard Time

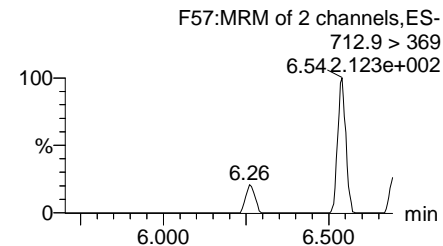
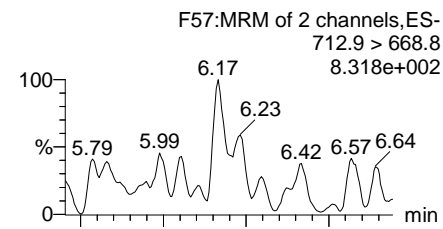
Printed: Thursday, January 18, 2018 11:46:03 Pacific Standard Time

Name: 180115M2_111, Date: 16-Jan-2018, Time: 21:41:23, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

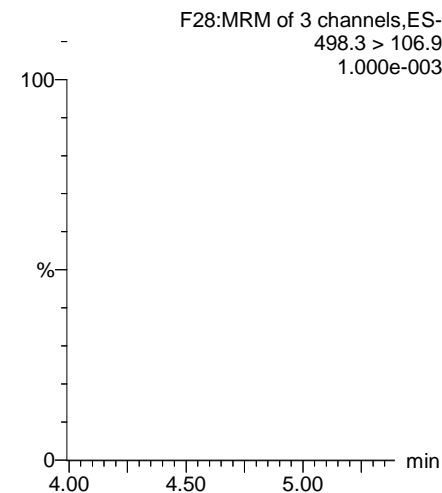
PFTrDA



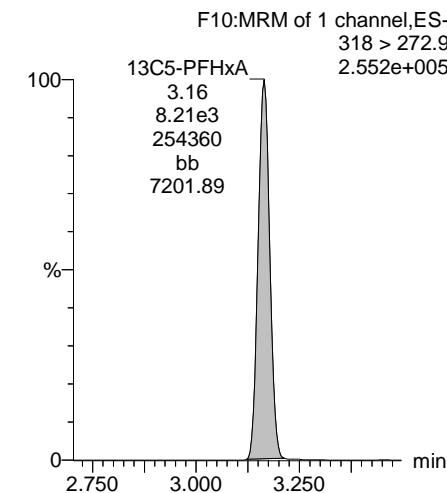
PFTeDA



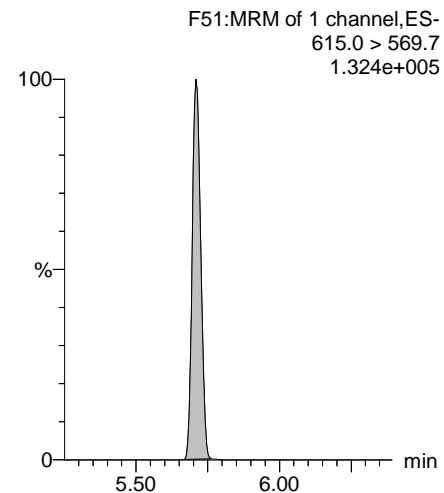
TCDA



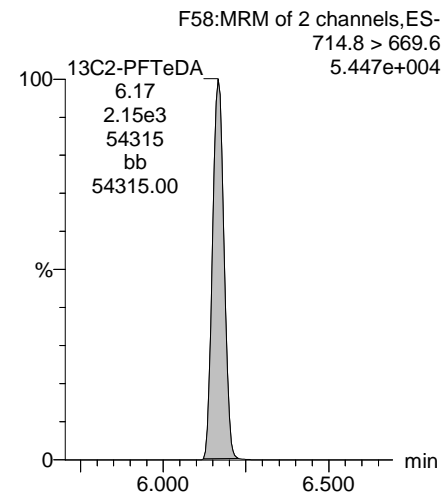
13C5-PFHxA



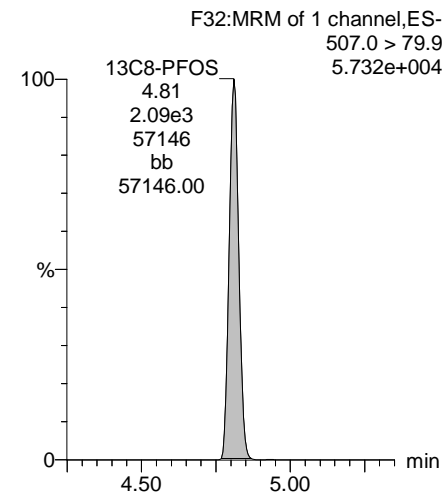
13C2-PFDoA



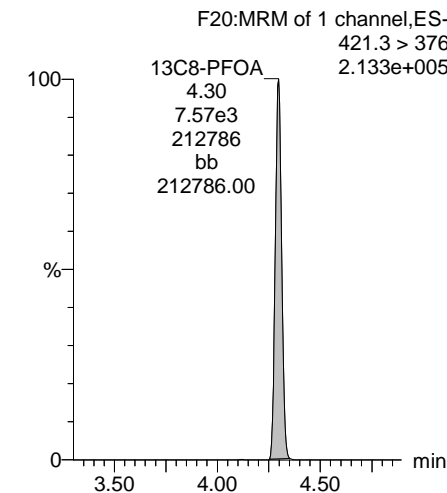
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-111.qld

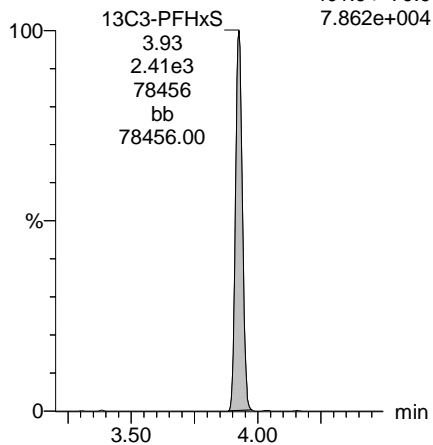
Last Altered: Thursday, January 18, 2018 11:45:23 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:46:03 Pacific Standard Time

Name: 180115M2_111, Date: 16-Jan-2018, Time: 21:41:23, ID: 1701953-08 SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

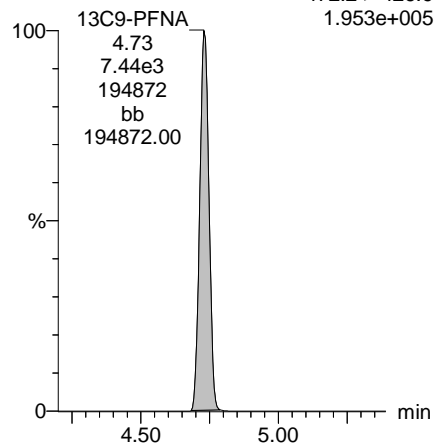
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.862e+004



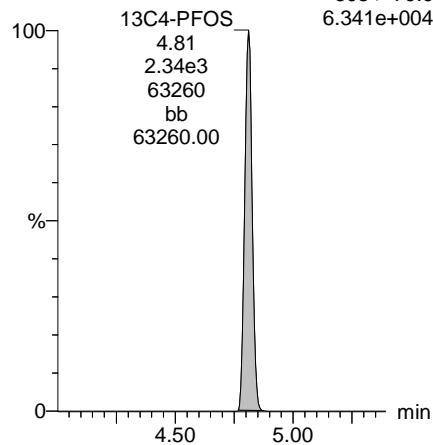
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
1.953e+005



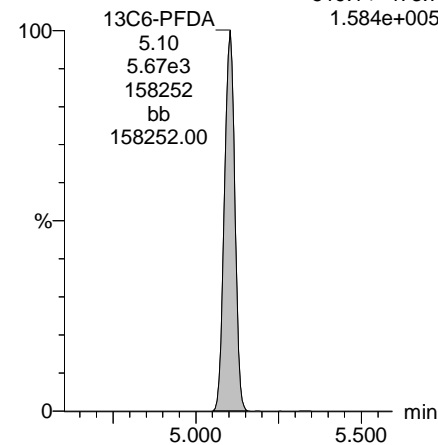
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.341e+004



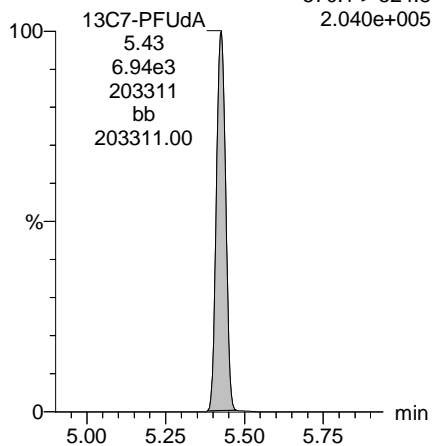
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.584e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.040e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-99.qld

Last Altered: Thursday, January 18, 2018 11:09:33 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:11:14 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_99, Date: 16-Jan-2018, Time: 19:24:01, ID: 1701953-08@5X SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

	# Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	12 PFNA	463.0 > 418.8	5.99e4	1.57e3		0.2570	4.94	4.73	476	1090	
2	39 13C5-PFNA	468.2 > 422.9	1.57e3	1.82e3	0.811	0.2570	4.94	4.73	10.8	51.8	106.5
3	58 13C9-PFNA	472.2 > 426.9	1.82e3	1.82e3	1.000	0.2570	4.94	4.74	12.5	48.6	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-99.qld

Last Altered: Thursday, January 18, 2018 11:09:33 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:11:14 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

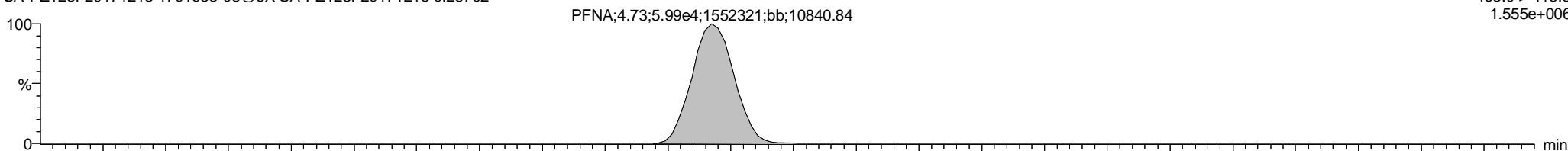
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_99, Date: 16-Jan-2018, Time: 19:24:01, ID: 1701953-08@5X SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

PFNA

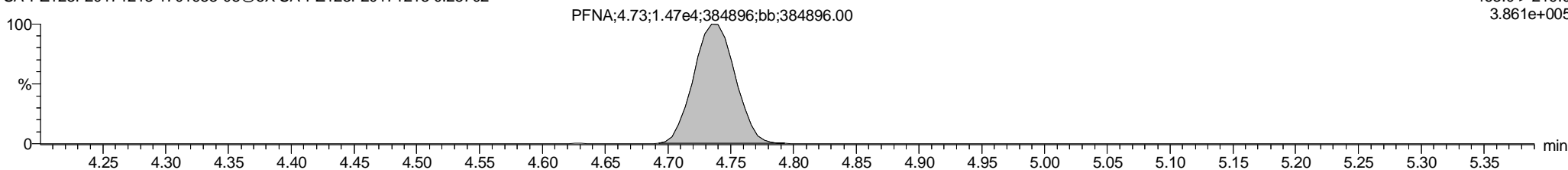
180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

F24:MRM of 2 channels,ES-
463.0 > 418.8
1.555e+006



180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

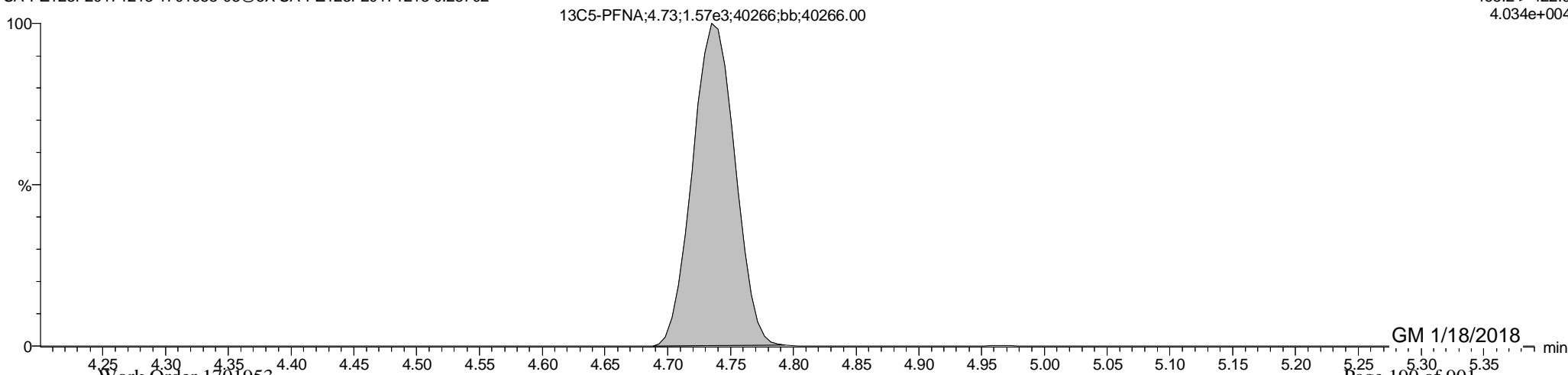
F24:MRM of 2 channels,ES-
463.0 > 219.0
3.861e+005



13C5-PFNA

180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

F25:MRM of 1 channel,ES-
468.2 > 422.9
4.034e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-99.qld

Last Altered: Thursday, January 18, 2018 11:09:33 Pacific Standard Time

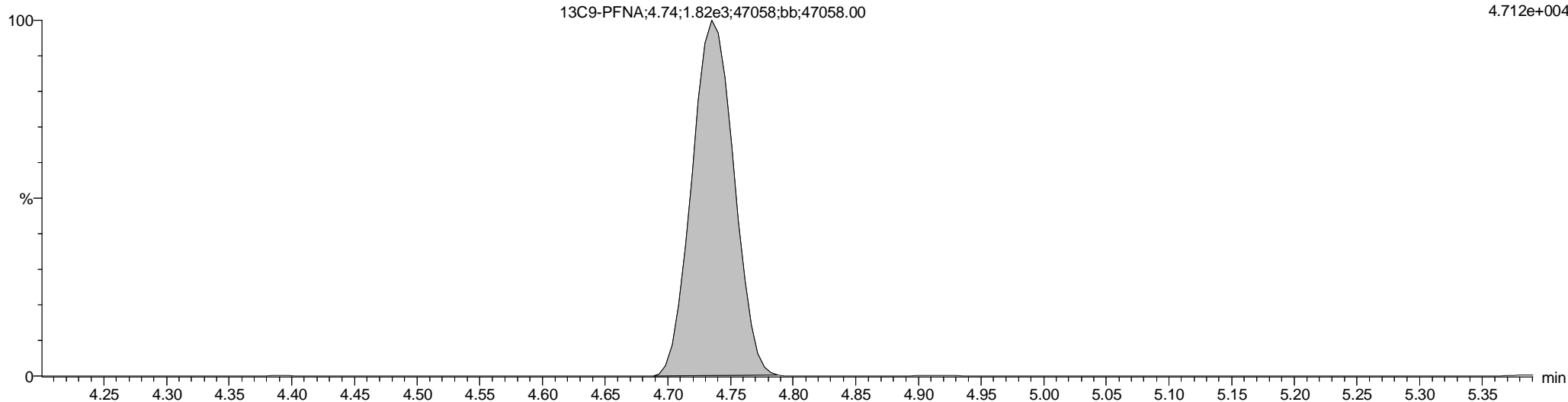
Printed: Thursday, January 18, 2018 11:11:14 Pacific Standard Time

Name: 180115M2_99, Date: 16-Jan-2018, Time: 19:24:01, ID: 1701953-08@5X SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

13C9-PFNA

180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.712e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-99_UG.qld

Last Altered: Tuesday, January 30, 2018 10:30:58 Pacific Standard Time

Printed: Tuesday, January 30, 2018 10:31:35 Pacific Standard Time

*ug/L

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_99, Date: 16-Jan-2018, Time: 19:24:01, ID: 1701953-08@5X SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc. *	%Rec
1	20 PFUdA	563.0 > 518.9	8.26e3	1.39e3	0.25702		5.62	5.43	0.0740	0.929	
2	46 13C2-PFUdA	565 > 519.8	1.39e3	1.47e3	0.25702	0.944	5.62	5.43	0.0118	0.049	100.4
3	61 13C7-PFUdA	570.1 > 524.8	1.47e3	1.47e3	0.25702	1.000	5.62	5.43	0.0125	0.049	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-99_UG.qld

Last Altered: Tuesday, January 30, 2018 10:30:58 Pacific Standard Time
Printed: Tuesday, January 30, 2018 10:31:35 Pacific Standard Time

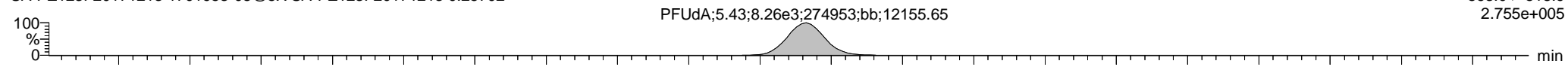
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_99, Date: 16-Jan-2018, Time: 19:24:01, ID: 1701953-08@5X SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

PFUdA

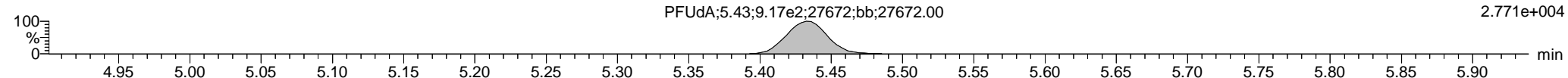
180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

F42:MRM of 2 channels,ES-
563.0 > 518.9
2.755e+005



180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

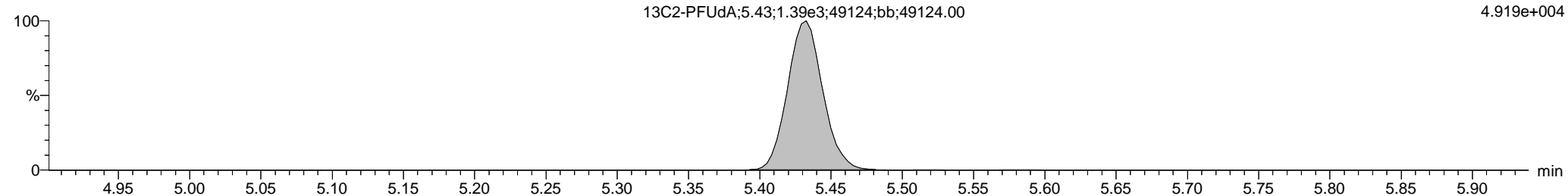
F42:MRM of 2 channels,ES-
563.0 > 269
2.771e+004



13C2-PFUdA

180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

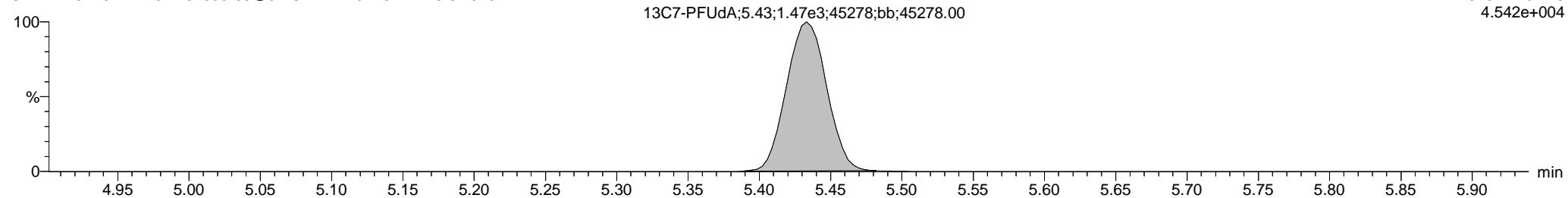
F43:MRM of 1 channel,ES-
565 > 519.8
4.919e+004



13C7-PFUdA

180115M2_99 Smooth(Mn,1x2)
SA-PZ123I-20171213 1701953-08@5X SA-PZ123I-20171213 0.25702

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.542e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-56.qld

Last Altered: Tuesday, January 16, 2018 13:42:20 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:43:00 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

*See dilution.

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		9.97e2	0.257		2.87				
2	4 PFHxA	313.2 > 268.9	2.90e3	2.48e3	0.257		3.36	3.22	5.84	12.8964	
3	5 PFHpA	363.0 > 318.9	3.36e3	5.34e3	0.257		4.00	3.84	7.88	20.5998	
4	6 L-PFHxS	398.9 > 79.6	1.37e2	7.76e2	0.257		4.14	3.98	2.20	4.0000	
5	9 L-PFOA	413 > 368.7	5.32e3	8.28e3	0.257		4.35	4.35	8.04	26.6487	
6	12 PFNA	463.0 > 418.8	1.16e5	6.99e3	0.257		4.94	4.78	208	531.1890 E*	
7	14 L-PFOS	499 > 79.9	6.47e2	2.17e3	0.257		5.02	4.86	3.73	13.1808	
8	16 PFDA	513 > 468.8	1.03e4	6.80e3	0.257		5.31	5.14	18.9	50.7495	
9	18 N-MeFOSAA	570.1 > 419		2.85e3	0.257		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.93e3	0.257		5.60				
11	20 PFUdA	563.0 > 518.9	7.39e3	6.89e3	0.257		5.62	5.47	13.4	41.0433	Use only
12	22 PFDoA	612.9 > 569.0		3.89e3	0.257		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-56.qld

Last Altered: Tuesday, January 16, 2018 13:42:20 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:06:22 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

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

Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ1231I-20171213 0.25747, Description: SA-PZ1231I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	3.89e3	0.257		6.15				
2	25	PFTeDA	712.9 > 668.8	2.08e3	0.257		6.35				
3	33	13C3-PFBS	302. > 98.8	9.97e2	0.257	0.095	2.87	2.72	1.30	52.9886	109.1
4	34	13C2-PFHxA	315 > 269.8	2.48e3	0.257	0.636	3.36	3.22	3.23	19.6891	101.4
5	35	13C4-PFHpA	367.2 > 321.8	5.34e3	0.257	0.621	4.00	3.84	6.94	43.3958	89.4
6	36	18O2-PFHxS	403.0 > 102.6	7.76e2	0.257	0.336	4.14	3.98	3.74	43.2242	89.0
7	37	13C2-6:2 FTS	429.1 > 408.9	1.27e3	0.257	0.192	4.46	4.29	1.94	39.2010	80.7
8	38	13C2-PFOA	414.9 > 369.7	8.28e3	0.257	1.001	4.50	4.35	12.6	48.9198	100.8
9	39	13C5-PFNA	468.2 > 422.9	6.99e3	0.257	0.811	4.94	4.78	12.0	57.3104	118.0
10	40	13C8-PFOA	506.1 > 77.7	1.10e3	0.257	0.196	5.00	4.84	1.55	30.6933	63.2
11	41	13C8-PFOS	507.0 > 79.9	2.17e3	0.257	0.862	5.02	4.85	12.0	54.0690	111.4
12	42	13C2-PFDA	515.1 > 469.9	6.80e3	0.257	0.996	5.31	5.14	14.8	57.7674	119.0
13	43	13C2-8:2 FTS	529.1 > 508.7	9.30e2	0.257	0.103	5.28	5.11	1.21	45.6076	93.9
14	44	d3-N-MeFOSAA	573.3 > 419	2.85e3	0.257	0.340	5.45	5.29	4.03	46.0643	94.9
15	45	d5-N-EtFOSAA	589.3 > 419	2.93e3	0.257	0.377	5.60	5.44	4.14	42.6352	87.8
16	46	13C2-PFUdA	565 > 519.8	6.89e3	0.257	0.944	5.62	5.47	9.74	40.0808	82.6
17	47	13C2-PFDoA	615.0 > 569.7	3.89e3	0.257	0.726	5.91	5.75	5.50	29.4001	60.6
18	49	13C2-PFTeDA	714.8 > 669.6	2.08e3	0.257	0.371	6.35	6.20	2.94	30.7200	63.3
19	55	13C5-PFHxA	318 > 272.9	9.62e3	0.257	1.000	3.36	3.22	12.5	48.5493	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.60e3	0.257	1.000	4.14	3.98	12.5	48.5493	100.0
21	57	13C8-PFOA	421.3 > 376	8.20e3	0.257	1.000	4.50	4.35	12.5	48.5493	100.0
22	58	13C9-PFNA	472.2 > 426.9	7.31e3	0.257	1.000	4.94	4.78	12.5	48.5493	100.0
23	59	13C4-PFOS	503 > 79.9	2.26e3	0.257	1.000	5.02	4.86	12.5	48.5493	100.0
24	60	13C6-PFDA	519.1 > 473.7	5.74e3	0.257	1.000	5.31	5.15	12.5	48.5493	100.0
25	61	13C7-PFUdA	570.1 > 524.8	8.84e3	0.257	1.000	5.62	5.46	12.5	48.5493	100.0
26	62	Total PFHxS	398.9 > 79.6	1.37e2	0.257		4.14		2.20	4.0000	
27	63	Total PFOA	413 > 368.7	5.32e3	0.257		4.51		8.04	26.6487	
28	64	Total PFOS	499 > 79.9	6.47e2	0.257		5.02		3.73	13.1808	
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	0.257		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	0.257		5.61		0.000		

Use only

Dataset: U:\Q4.PRO\results\180115M2\180115M2-56.qld

Last Altered: Tuesday, January 16, 2018 13:42:20 Pacific Standard Time

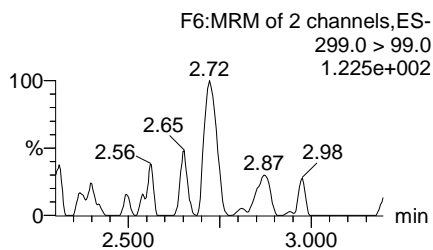
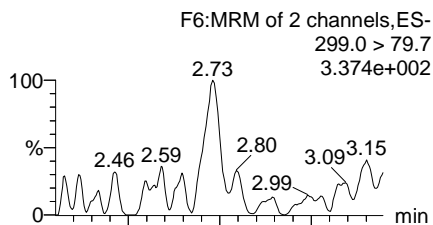
Printed: Tuesday, January 16, 2018 13:43:10 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 12:59:09

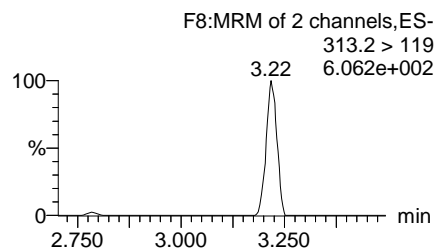
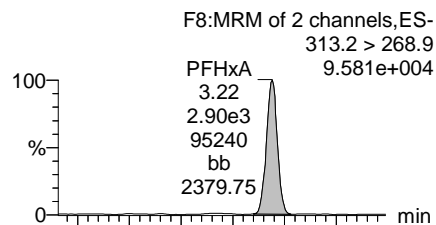
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

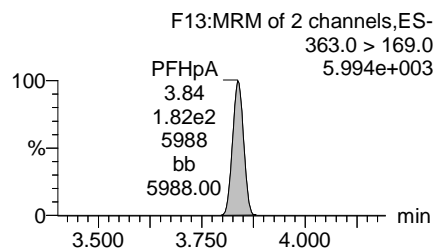
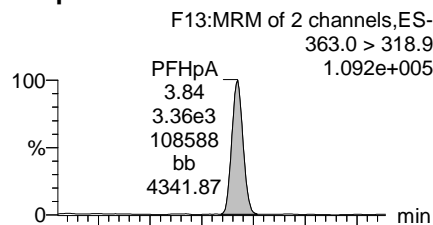
PFBS



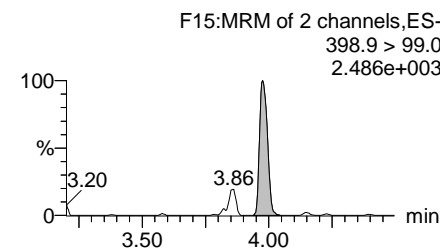
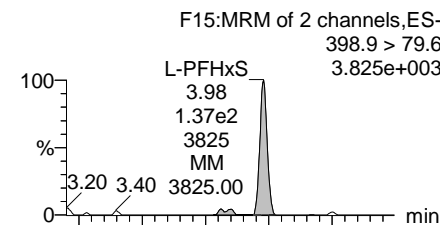
PFHxA



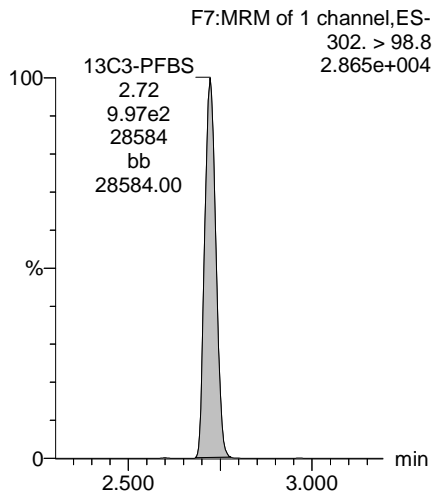
PFHpA



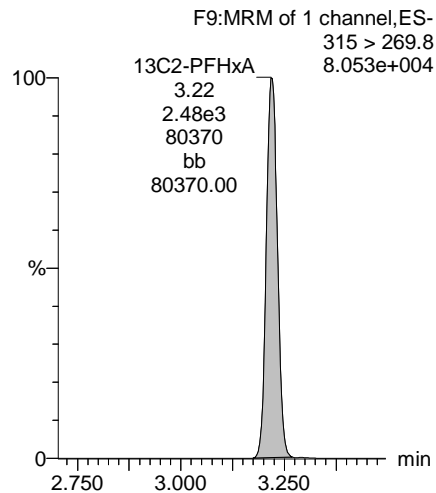
Total PFHxS



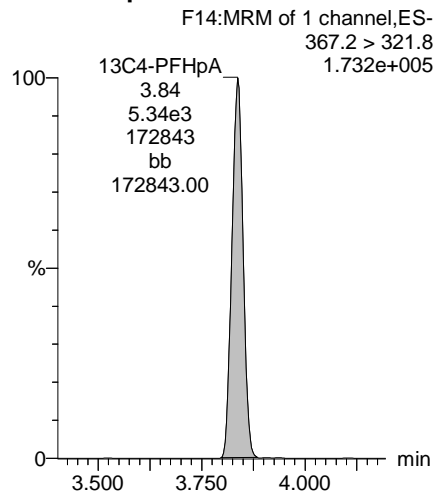
13C3-PFBS



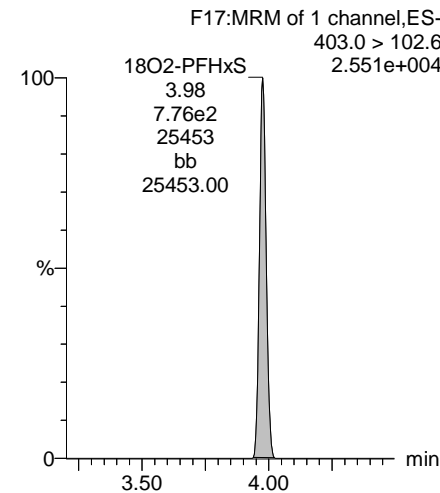
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13C4-PFHpA



18O2-PFHxS



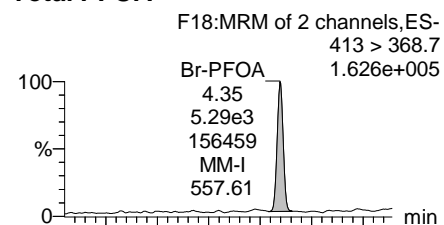
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Last Altered: Tuesday, January 16, 2018 13:42:20 Pacific Standard Time

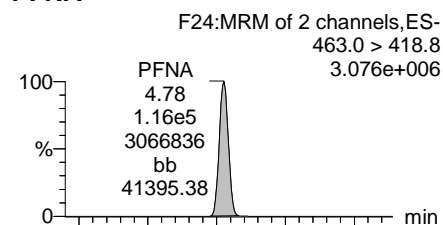
Printed: Tuesday, January 16, 2018 13:43:10 Pacific Standard Time

Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

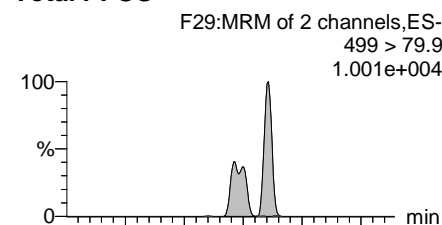
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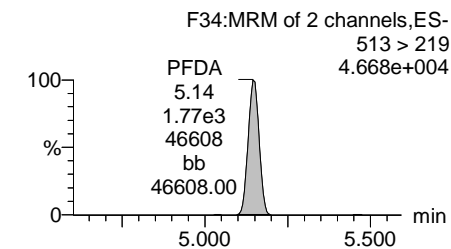
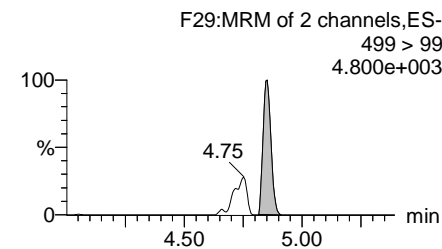
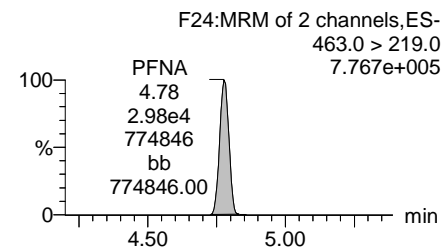
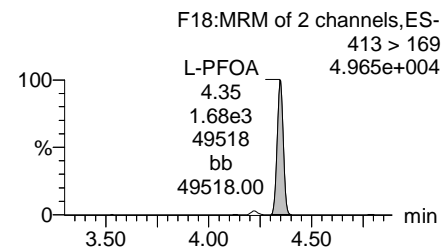
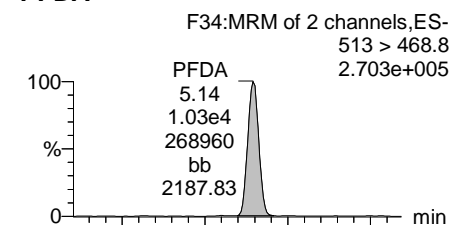
PFNA



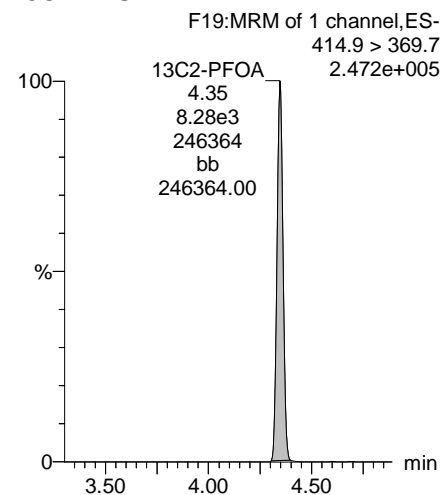
Total PFOS



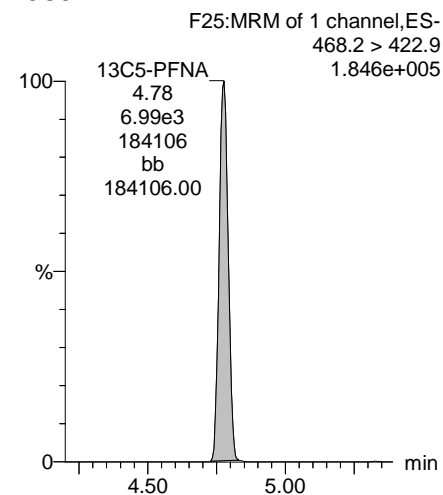
PFDA



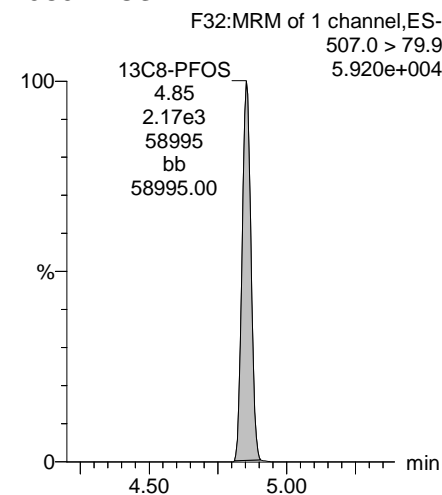
13C2-PFOA



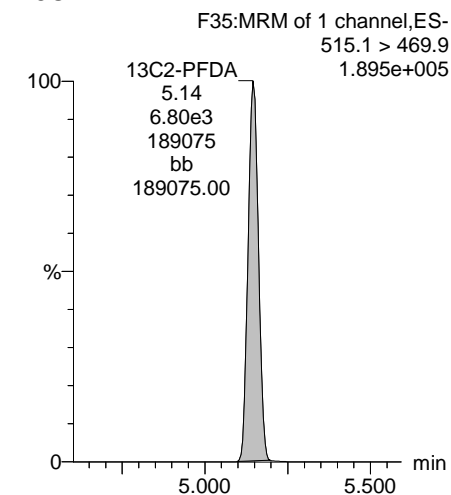
13C5-PFNA



13C8-PFOS



13C2-PFDA



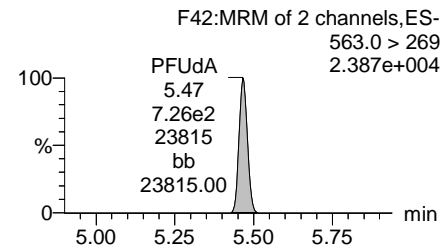
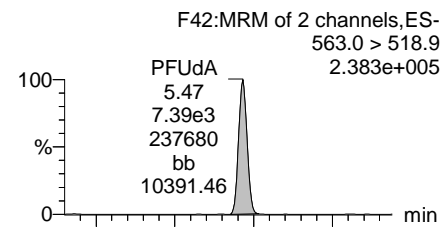
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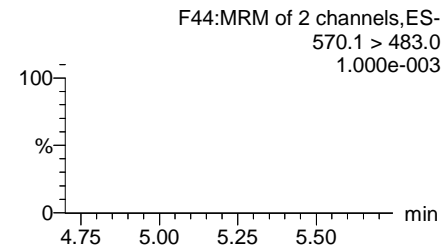
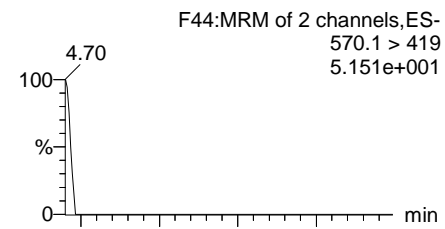
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Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

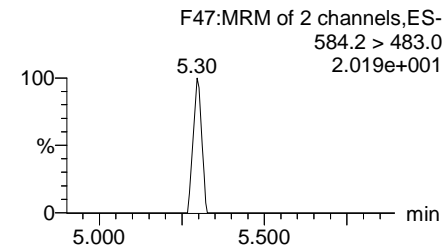
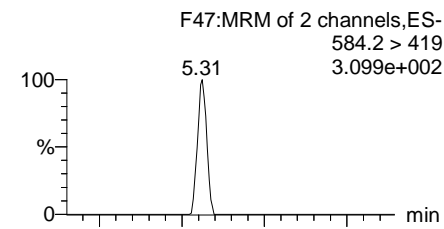
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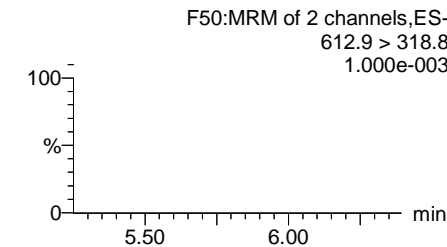
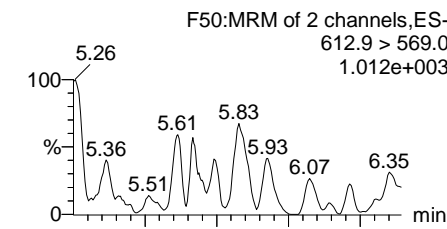
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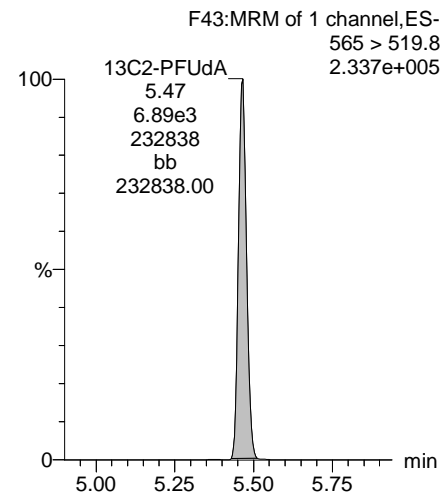
N-EtFOSAA



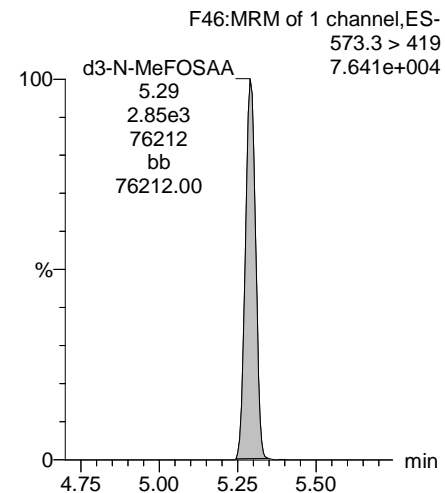
PFDoA



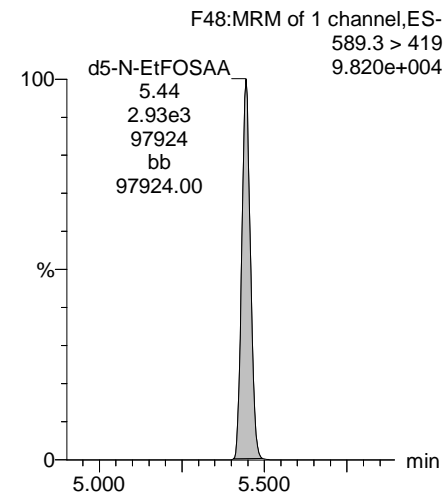
13C2-PFUdA



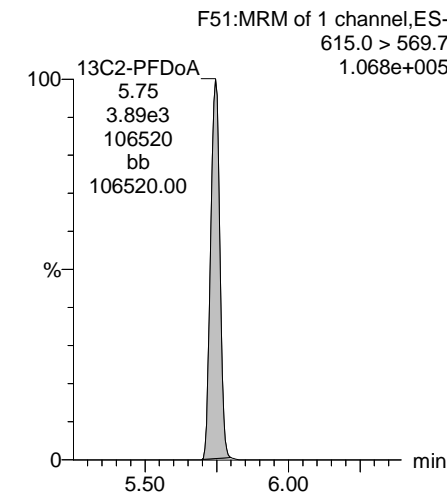
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDoA

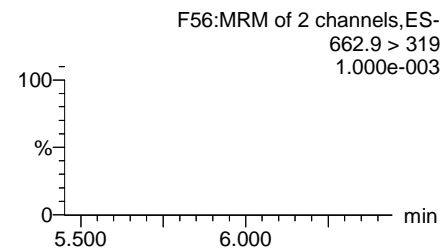
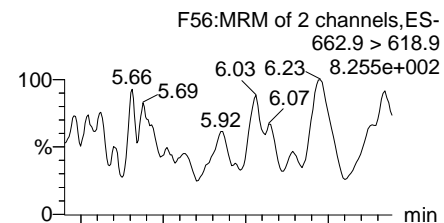


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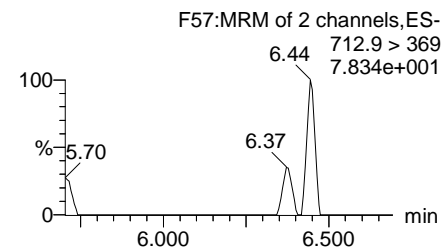
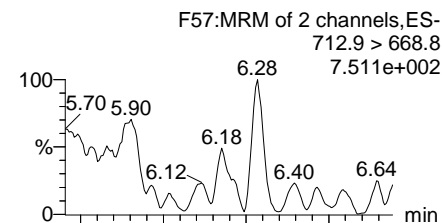
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Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

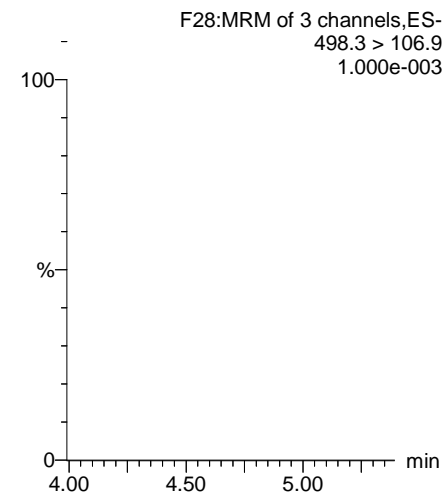
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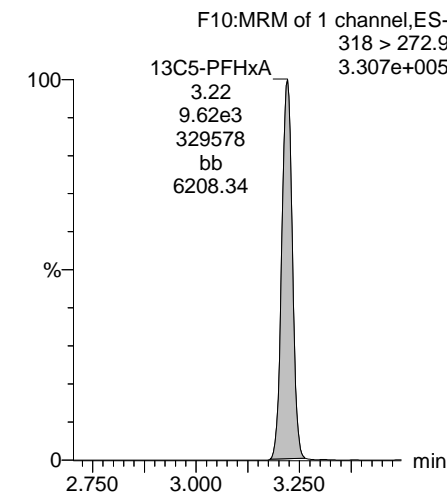
PFTeDA



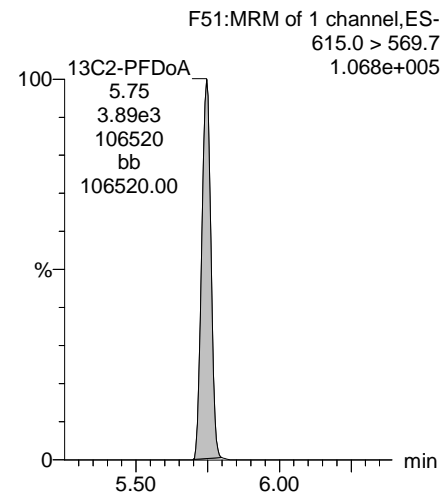
TCDA



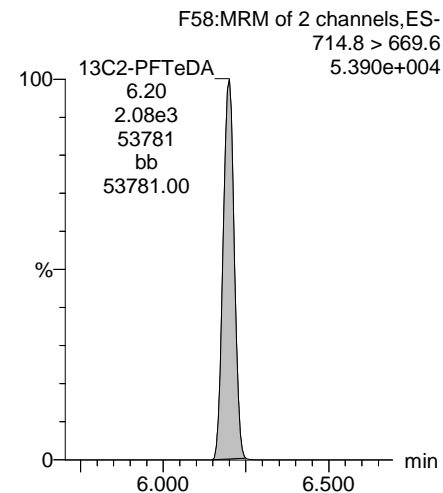
13C5-PFHxA



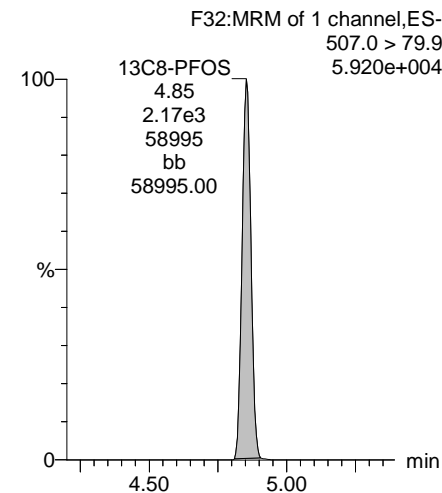
13C2-PFDoA



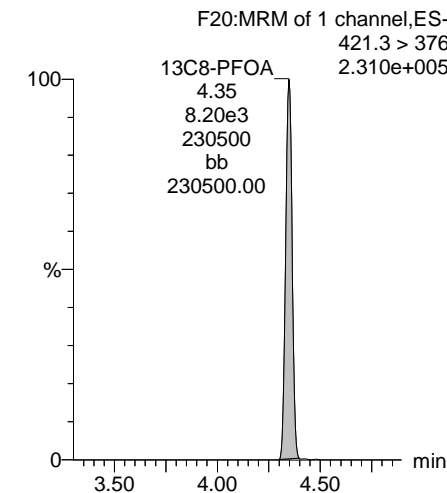
13C2-PFTeDA



13C8-PFOS



13C8-PFOA

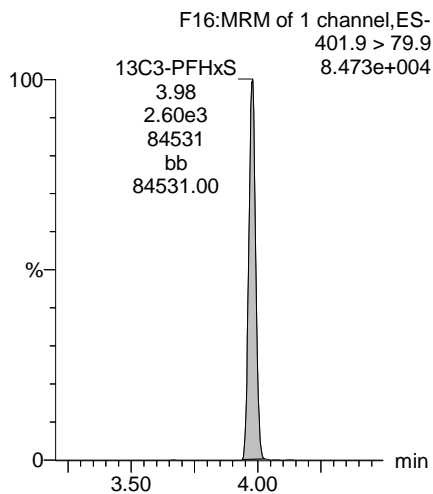


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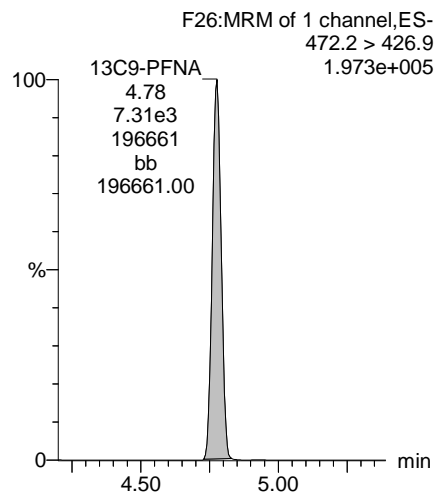
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Printed: Tuesday, January 16, 2018 13:43:10 Pacific Standard Time

Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

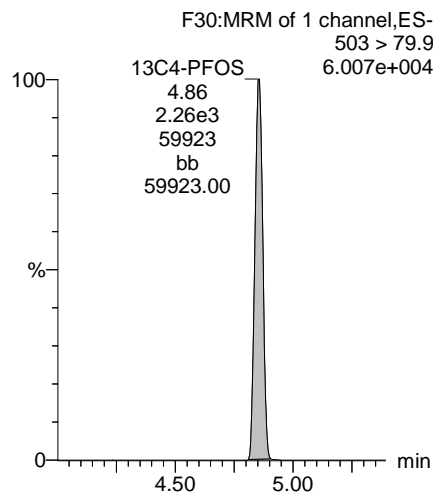
13C3-PFHxS



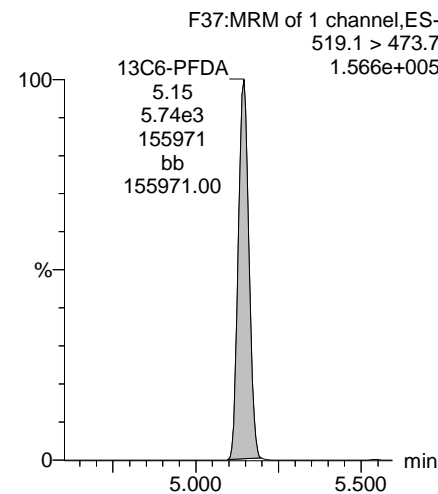
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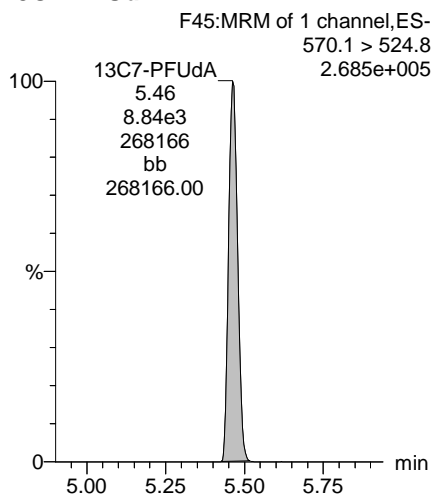
13C4-PFOS



13C6-PFDA



13C7-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-112.qld

Last Altered: Thursday, January 18, 2018 11:48:22 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:48:56 Pacific Standard Time

*See dilution.

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7	9.58e0	1.01e3	0.257		2.87	2.67	0.118		
2	4 PFHxA	313.2 > 268.9	3.02e3	2.51e3	0.257		3.36	3.16	6.01	13.2765	
3	5 PFHpA	363.0 > 318.9	3.81e3	5.86e3	0.257		4.00	3.78	8.12	21.2342	
4	6 L-PFHxS	398.9 > 79.6	1.62e2	8.86e2	0.257		3.94	3.93	2.29	4.1573	
5	9 L-PFOA	413 > 368.7	5.84e3	7.86e3	0.257		4.34	4.29	9.29	30.9937	
6	12 PFNA	463.0 > 418.8	1.32e5	7.24e3	0.257		4.94	4.73	228	575.8409 E*	
7	14 L-PFOS	499 > 79.9	7.47e2	1.87e3	0.257		5.02	4.82	4.99	17.5772	
8	16 PFDA	513 > 468.8	8.12e3	5.39e3	0.257		5.31	5.10	18.8	50.6769	
9	18 N-MeFOSAA	570.1 > 419		2.59e3	0.257		5.45				
10	19 N-EtFOSAA	584.2 > 419		3.28e3	0.257		5.60				
11	20 PFUdA	563.0 > 518.9	7.49e3	6.31e3	0.257		5.62	5.43	14.8	45.6300	
12	22 PFDoA	612.9 > 569.0		3.27e3	0.257		5.91				

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-112.qld

Last Altered: Thursday, January 18, 2018 11:48:22 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:49:32 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
1	24	PFTrDA	662.9 > 618.9	3.27e3	0.257		6.15					
2	25	PFTeDA	712.9 > 668.8	2.40e3	0.257		6.35					
3	33	13C3-PFBS	302. > 98.8	1.01e3	1.01e4	0.257	0.095	2.87	2.67	1.25	51.0693	105.2
4	34	13C2-PFHxA	315 > 269.8	2.51e3	1.01e4	0.257	0.636	3.36	3.16	3.10	18.9133	97.4
5	35	13C4-PFHpA	367.2 > 321.8	5.86e3	1.01e4	0.257	0.621	4.00	3.78	7.23	45.2580	93.2
6	36	18O2-PFHxS	403.0 > 102.6	8.86e2	2.41e3	0.257	0.336	4.14	3.92	4.59	53.0509	109.3
7	37	13C2-6:2 FTS	429.1 > 408.9	1.69e3	8.17e3	0.257	0.192	4.46	4.24	2.59	52.2429	107.6
8	38	13C2-PFOA	414.9 > 369.7	7.86e3	8.17e3	0.257	1.001	4.50	4.30	12.0	46.6074	96.0
9	39	13C5-PFNA	468.2 > 422.9	7.24e3	8.54e3	0.257	0.811	4.94	4.73	10.6	50.7405	104.5
10	40	13C8-PFOA	506.1 > 77.7	1.46e3	7.00e3	0.257	0.196	5.00	4.79	2.60	51.4209	105.9
11	41	13C8-PFOS	507.0 > 79.9	1.87e3	2.34e3	0.257	0.862	5.02	4.81	10.0	45.1038	92.9
12	42	13C2-PFDA	515.1 > 469.9	5.39e3	5.20e3	0.257	0.996	5.31	5.10	13.0	50.5163	104.1
13	43	13C2-8:2 FTS	529.1 > 508.7	8.90e2	1.01e4	0.257	0.103	5.28	5.07	1.10	41.4282	85.3
14	44	d3-N-MeFOSAA	573.3 > 419	2.59e3	7.00e3	0.257	0.340	5.45	5.25	4.62	52.7472	108.6
15	45	d5-N-EtFOSAA	589.3 > 419	3.28e3	7.00e3	0.257	0.377	5.60	5.40	5.85	60.3453	124.3
16	46	13C2-PFUdA	565 > 519.8	6.31e3	7.00e3	0.257	0.944	5.62	5.42	11.3	46.3256	95.4
17	47	13C2-PFDoA	615.0 > 569.7	3.27e3	7.00e3	0.257	0.726	5.91	5.70	5.84	31.2098	64.3
18	49	13C2-PFTeDA	714.8 > 669.6	2.40e3	7.00e3	0.257	0.371	6.35	6.17	4.29	44.8826	92.4
19	55	13C5-PFHxA	318 > 272.9	1.01e4	1.01e4	0.257	1.000	3.36	3.16	12.5	48.5493	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.41e3	2.41e3	0.257	1.000	4.14	3.93	12.5	48.5493	100.0
21	57	13C8-PFOA	421.3 > 376	8.17e3	8.17e3	0.257	1.000	4.50	4.30	12.5	48.5493	100.0
22	58	13C9-PFNA	472.2 > 426.9	8.54e3	8.54e3	0.257	1.000	4.94	4.72	12.5	48.5493	100.0
23	59	13C4-PFOS	503 > 79.9	2.34e3	2.34e3	0.257	1.000	5.02	4.81	12.5	48.5493	100.0
24	60	13C6-PFDA	519.1 > 473.7	5.20e3	5.20e3	0.257	1.000	5.31	5.10	12.5	48.5493	100.0
25	61	13C7-PFUdA	570.1 > 524.8	7.00e3	7.00e3	0.257	1.000	5.62	5.42	12.5	48.5493	100.0
26	62	Total PFHxS	398.9 > 79.6	1.62e2	8.86e2	0.257		4.14		2.29	4.1573	
27	63	Total PFOA	413 > 368.7	5.84e3	7.86e3	0.257		4.51		9.29	30.9937	
28	64	Total PFOS	499 > 79.9	7.47e2	1.87e3	0.257		5.02		4.99	17.5772	
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	2.59e3	0.257		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	3.28e3	0.257		5.61		0.000		

See original run

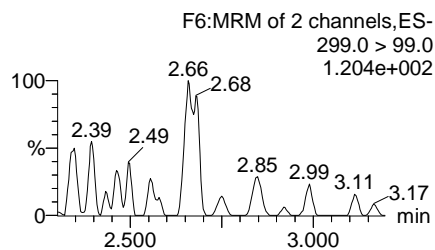
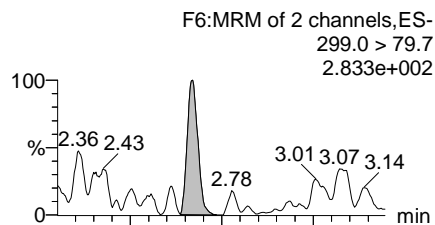
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Last Altered: Thursday, January 18, 2018 11:48:22 Pacific Standard Time
Printed: Thursday, January 18, 2018 11:49:32 Pacific Standard Time

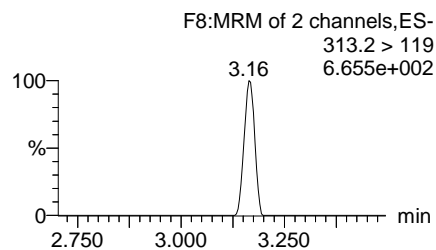
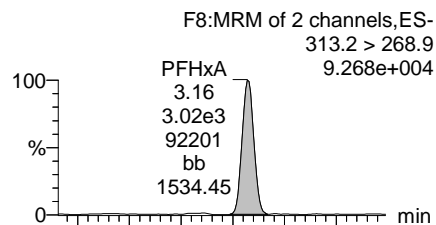
Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29
Calibration: U:\Q4.pro\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ1231I-20171213 0.25747, Description: SA-PZ1231I-20171213

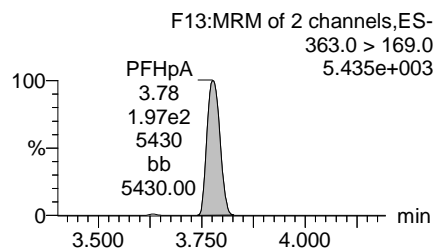
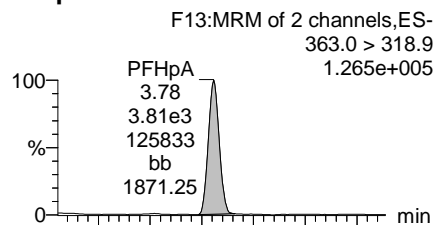
PFBS



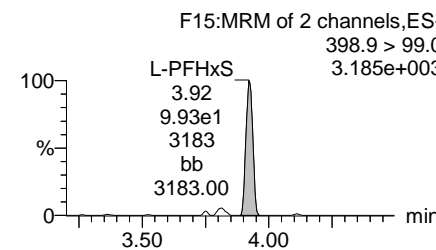
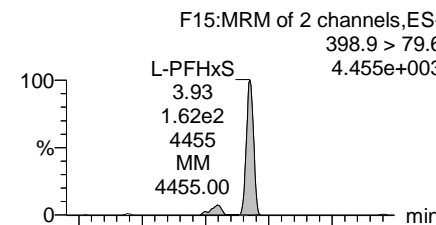
PFHxA



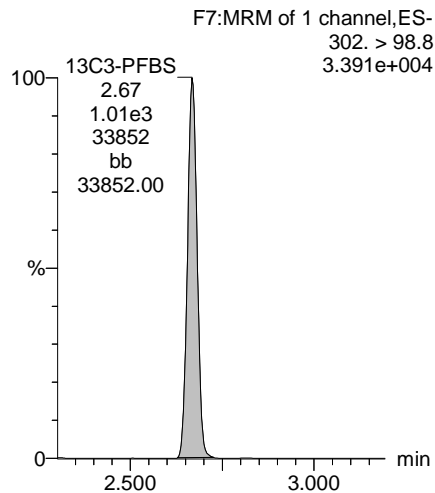
PFHpA



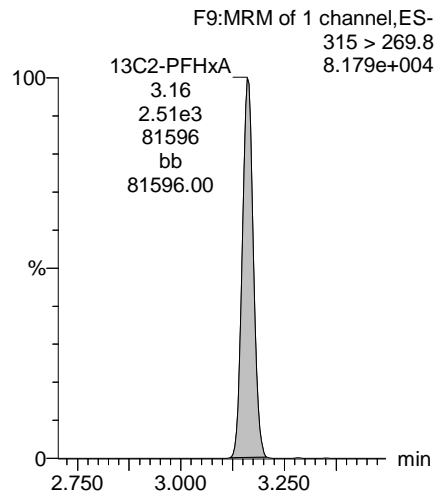
Total PFHxS



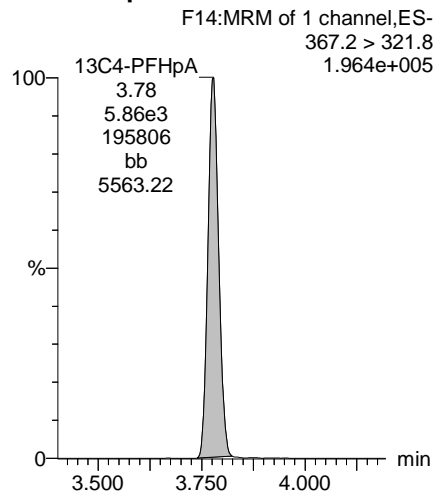
13C3-PFBS



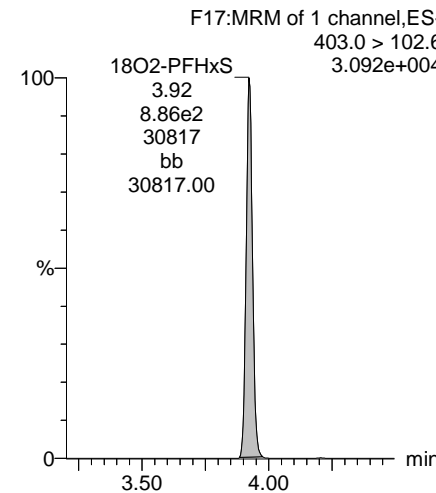
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



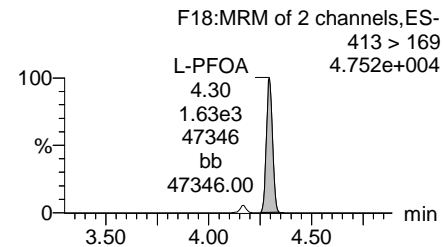
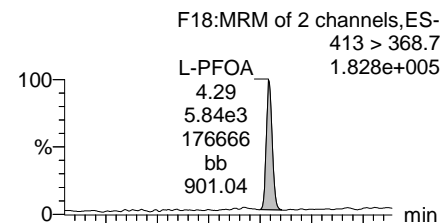
Dataset: U:\Q4.PRO\results\180115M2\180115M2-112.qld

Last Altered: Thursday, January 18, 2018 11:48:22 Pacific Standard Time

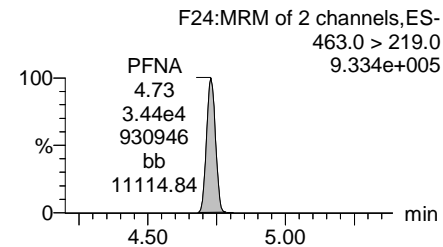
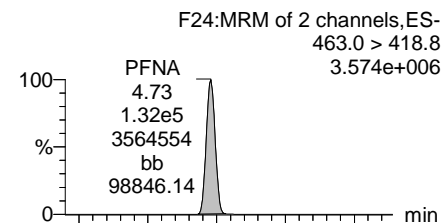
Printed: Thursday, January 18, 2018 11:49:32 Pacific Standard Time

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ1231I-20171213 0.25747, Description: SA-PZ1231I-20171213

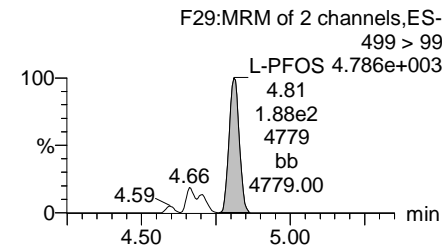
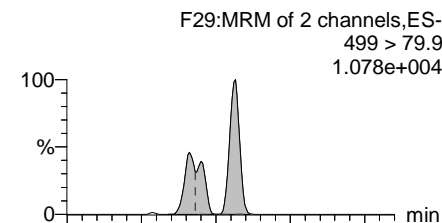
Total PFOA



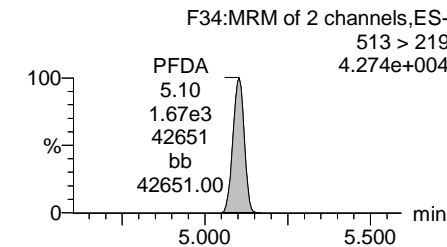
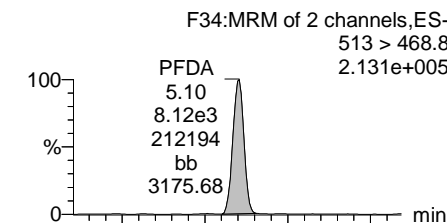
PFNA



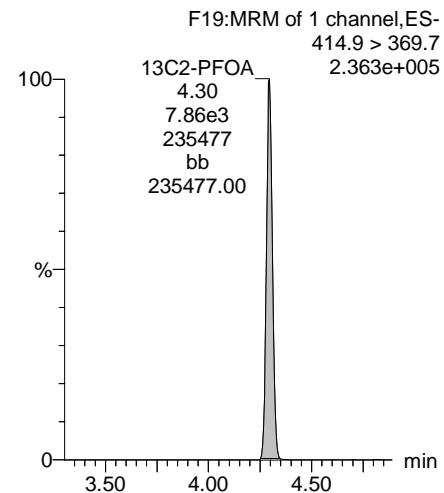
Total PFOS



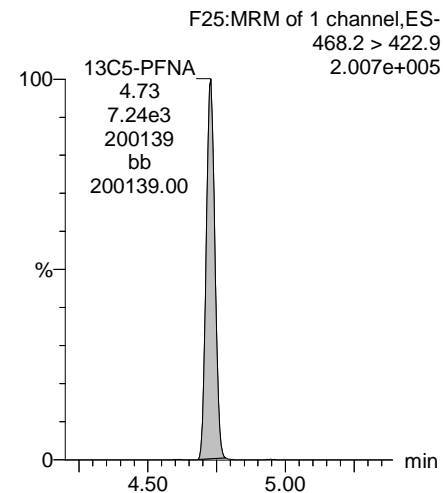
PFDA



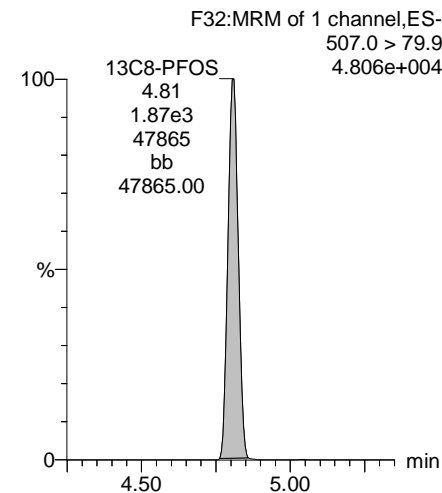
13C2-PFOA



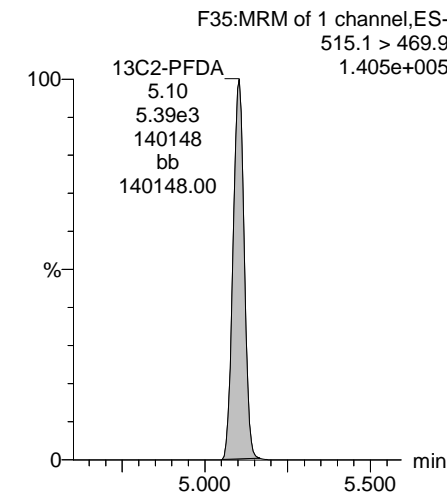
13C5-PFNA



13C8-PFOS



13C2-PFDA



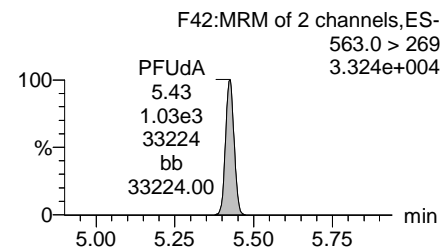
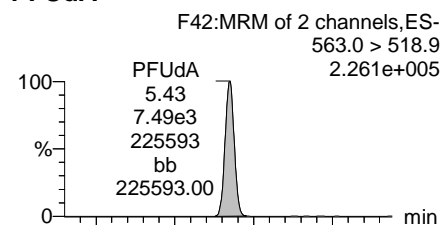
Dataset: U:\Q4.PRO\results\180115M2\180115M2-112.qld

Last Altered: Thursday, January 18, 2018 11:48:22 Pacific Standard Time

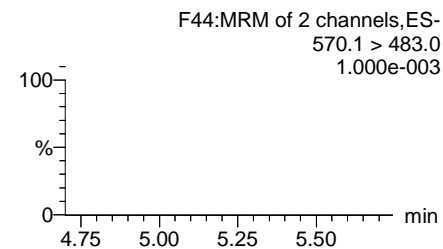
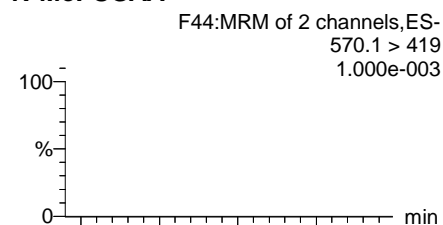
Printed: Thursday, January 18, 2018 11:49:32 Pacific Standard Time

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

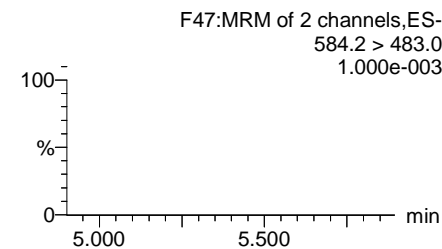
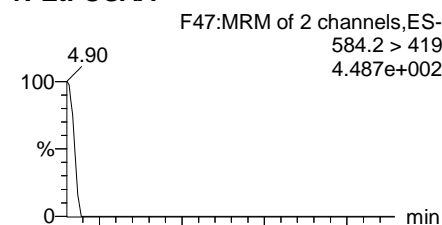
PFUdA



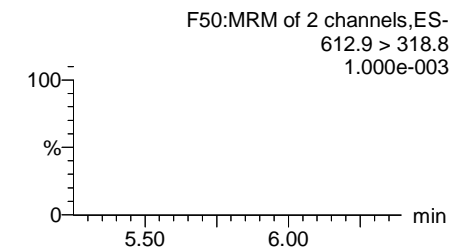
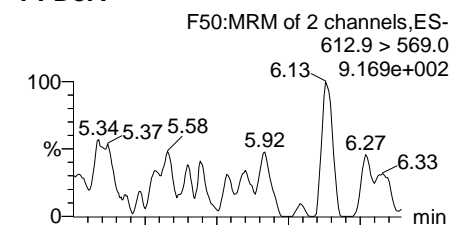
N-MeFOSAA



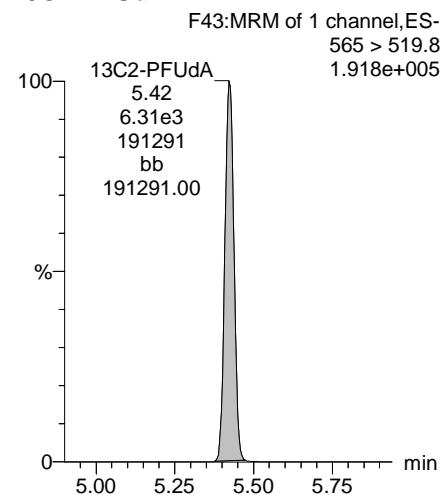
N-EtFOSAA



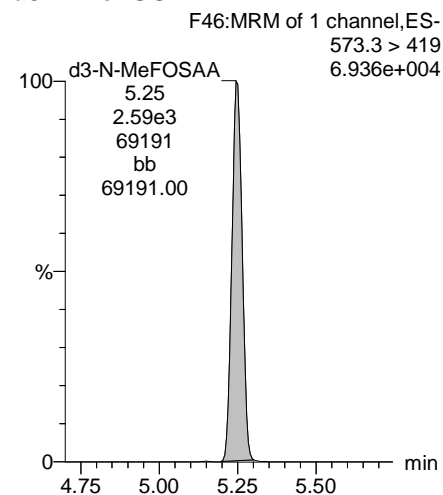
PFDaA



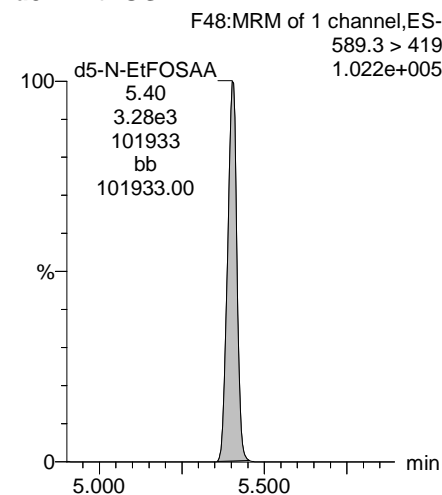
13C2-PFUdA



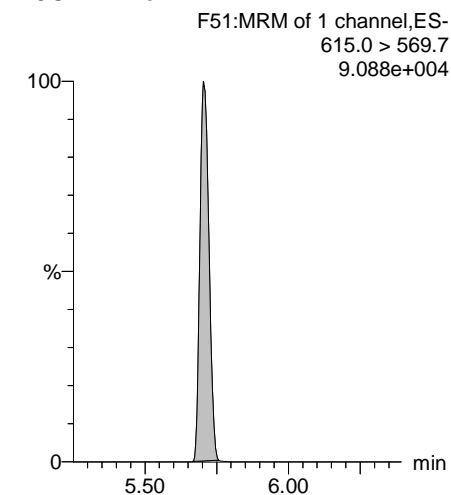
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



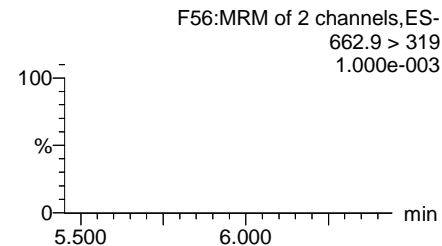
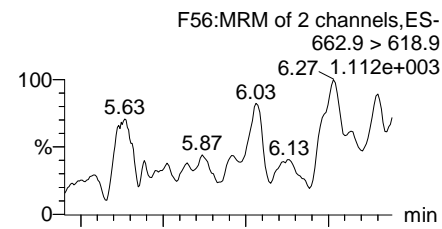
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Last Altered: Thursday, January 18, 2018 11:48:22 Pacific Standard Time

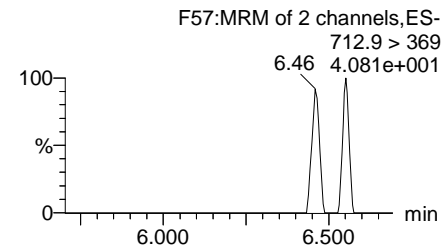
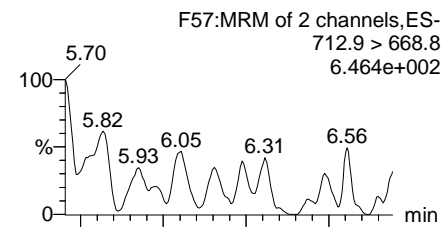
Printed: Thursday, January 18, 2018 11:49:32 Pacific Standard Time

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

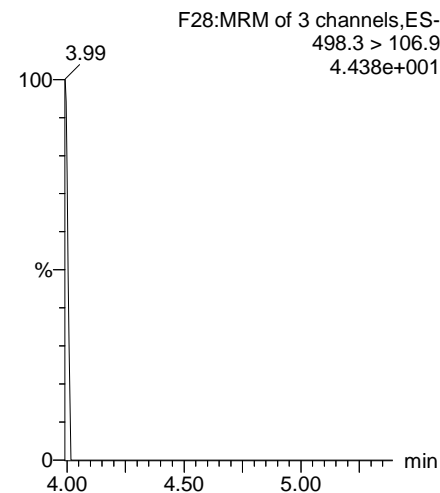
PFTrDA



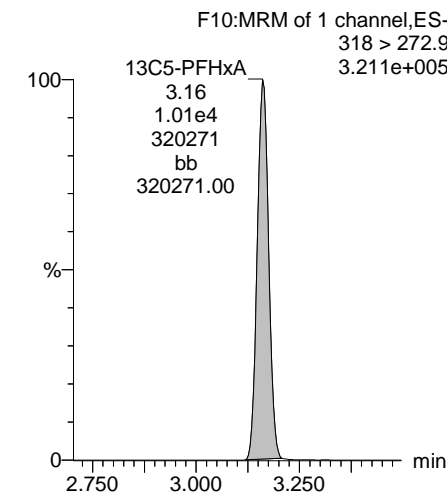
PFTeDA



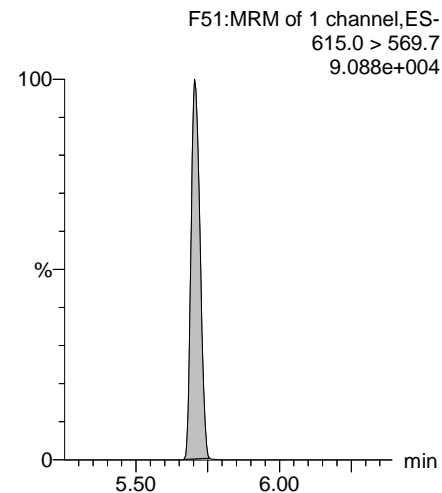
TCDA



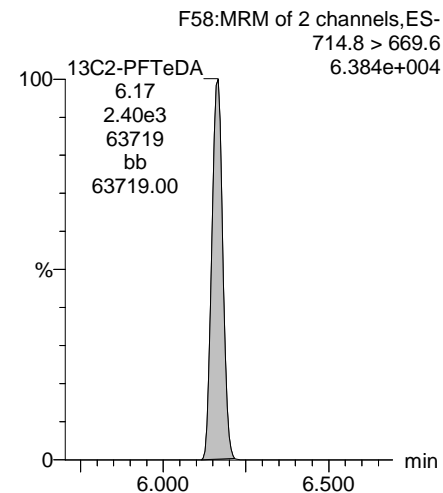
13C5-PFHxA



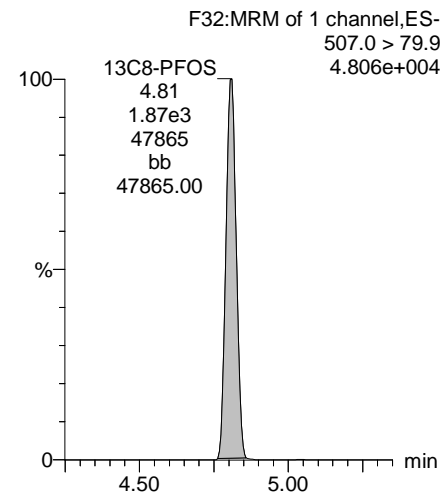
13C2-PFDoA



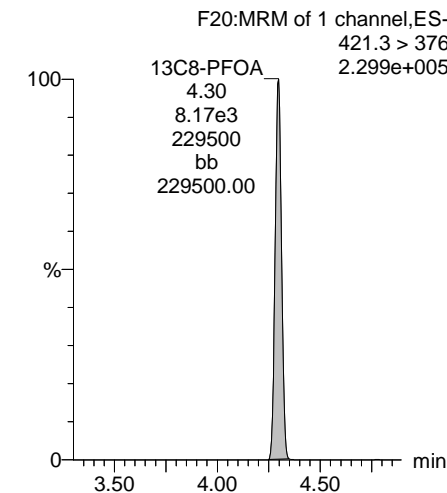
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-112.qld

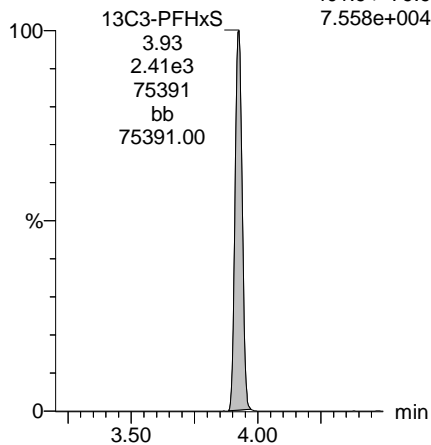
Last Altered: Thursday, January 18, 2018 11:48:22 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:49:32 Pacific Standard Time

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

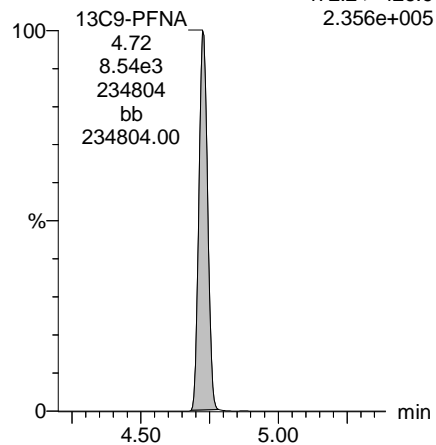
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.558e+004



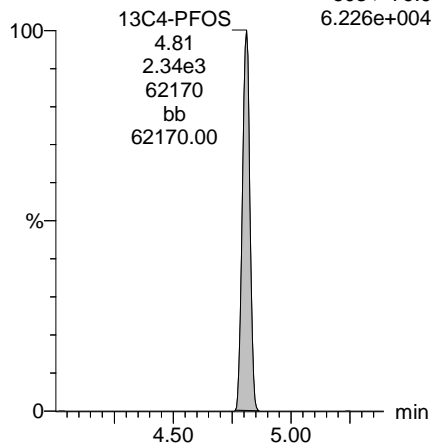
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.356e+005



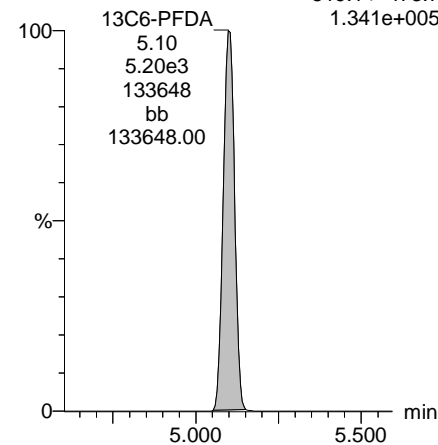
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.226e+004



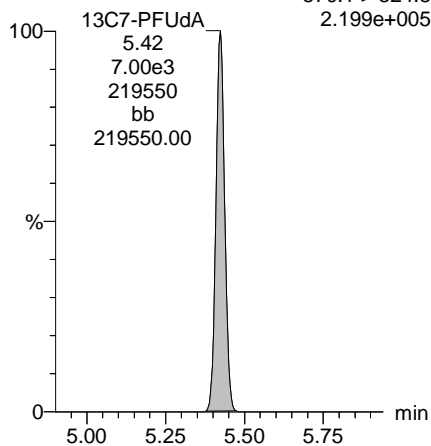
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.341e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.199e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-100.qld

Last Altered: Thursday, January 18, 2018 11:11:58 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:12:21 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_100, Date: 16-Jan-2018, Time: 19:35:28, ID: 1701953-09@5X SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

	# Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	12 PFNA	463.0 > 418.8	2.78e4	1.43e3		0.2575	4.94	4.73	243	610	
2	39 13C5-PFNA	468.2 > 422.9	1.43e3	1.93e3	0.811	0.2575	4.94	4.73	9.24	44.3	91.2
3	58 13C9-PFNA	472.2 > 426.9	1.93e3	1.93e3	1.000	0.2575	4.94	4.73	12.5	48.5	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-100.qld

Last Altered: Thursday, January 18, 2018 11:11:58 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:12:21 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

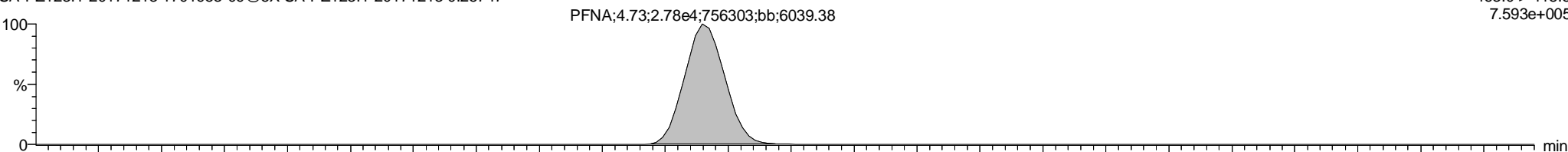
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_100, Date: 16-Jan-2018, Time: 19:35:28, ID: 1701953-09@5X SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

PFNA

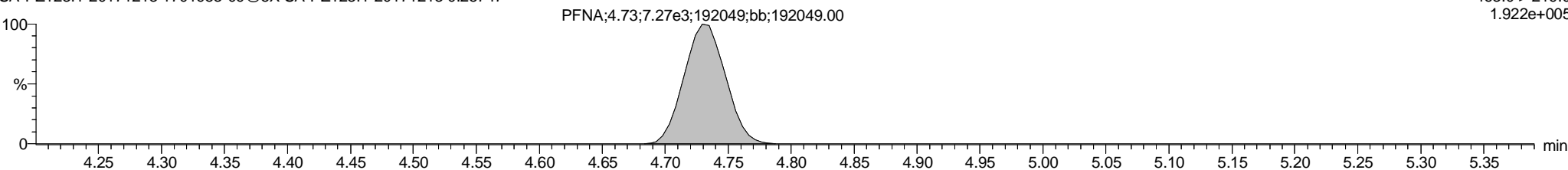
180115M2_100 Smooth(Mn,1x2)
SA-PZ123I1-20171213 1701953-09@5X SA-PZ123I1-20171213 0.25747

F24:MRM of 2 channels,ES-
463.0 > 418.8
7.593e+005



180115M2_100 Smooth(Mn,1x2)
SA-PZ123I1-20171213 1701953-09@5X SA-PZ123I1-20171213 0.25747

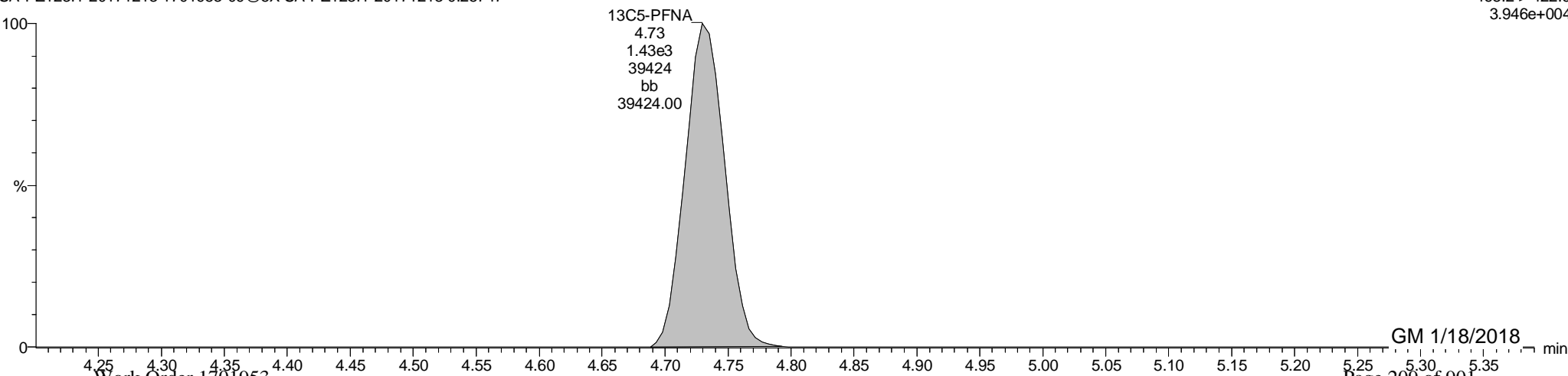
F24:MRM of 2 channels,ES-
463.0 > 219.0
1.922e+005



13C5-PFNA

180115M2_100 Smooth(Mn,1x2)
SA-PZ123I1-20171213 1701953-09@5X SA-PZ123I1-20171213 0.25747

F25:MRM of 1 channel,ES-
468.2 > 422.9
3.946e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-100.qld

Last Altered: Thursday, January 18, 2018 11:11:58 Pacific Standard Time

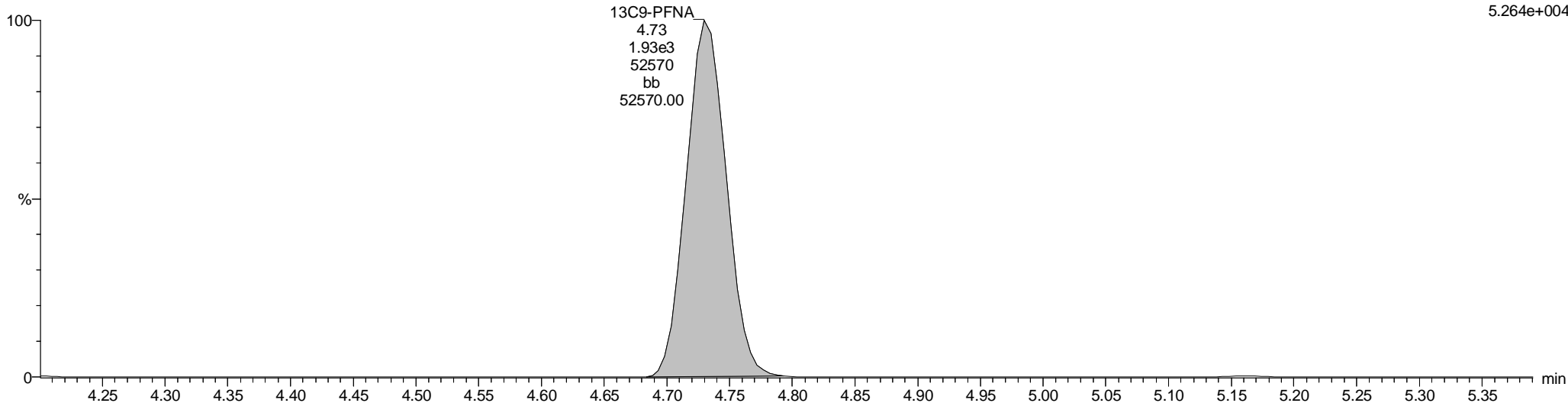
Printed: Thursday, January 18, 2018 11:12:21 Pacific Standard Time

Name: 180115M2_100, Date: 16-Jan-2018, Time: 19:35:28, ID: 1701953-09@5X SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

13C9-PFNA

180115M2_100 Smooth(Mn,1x2)
SA-PZ123I1-20171213 1701953-09@5X SA-PZ123I1-20171213 0.25747

F26:MRM of 1 channel,ES-
472.2 > 426.9
5.264e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-57.qld

Last Altered: Tuesday, January 16, 2018 13:44:56 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:45:32 Pacific Standard Time

See RI for all except PFUdA and PFTeDA

*See dilution.

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

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

Name: 180115M2_57, Date: 16-Jan-2018, Time: 11:02:44, ID: 1701953-10 SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		8.09e2	0.235		2.87				
2	4 PFHxA	313.2 > 268.9	5.62e2	2.23e3	0.235		3.36	3.22	1.26	3.0163	
3	5 PFHpA	363.0 > 318.9	1.13e3	5.27e3	0.235		4.00	3.84	2.68	7.7765	
4	6 L-PFHxS	398.9 > 79.6	1.07e1	6.66e2	0.235		4.14	3.98	0.201	0.3278	
5	9 L-PFOA	413 > 368.7	4.59e3	6.60e3	0.235		4.34	4.35	8.68	31.6463	
6	12 PFNA	463.0 > 418.8	1.40e5	5.04e3	0.235		4.94	4.78	348	916.0456 E*	
7	14 L-PFOS	499 > 79.9	5.13e1	1.76e3	0.235		5.02	4.86	0.364	1.5671	
8	16 PFDA	513 > 468.8	2.70e3	5.39e3	0.235		5.31	5.15	6.26	18.5594	
9	18 N-MeFOSAA	570.1 > 419		2.14e3	0.235		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.36e3	0.235		5.60				
11	20 PFUdA	563.0 > 518.9	3.88e4	5.71e3	0.235		5.62	5.47	84.9		Use only
12	22 PFDoA	612.9 > 569.0		3.85e3	0.235		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-57.qld

Last Altered: Tuesday, January 16, 2018 13:44:56 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:06:57 Pacific Standard Time

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

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

Name: 180115M2_57, Date: 16-Jan-2018, Time: 11:02:44, ID: 1701953-10 SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.85e3	0.235		6.15				
2	25 PFTeDA	712.9 > 668.8		1.63e3	0.235		6.35				
3	33 13C3-PFBS	302. > 98.8	8.09e2	8.67e3	0.235	0.095	2.87	2.72	1.17	52.2696	98.3
4	34 13C2-PFHxA	315 > 269.8	2.23e3	8.67e3	0.235	0.636	3.36	3.22	3.22	21.5027	101.1
5	35 13C4-PFHpA	367.2 > 321.8	5.27e3	8.67e3	0.235	0.621	4.00	3.84	7.60	52.0967	98.0
6	36 18O2-PFHxS	403.0 > 102.6	6.66e2	1.88e3	0.235	0.336	4.14	3.98	4.44	56.2016	105.7
7	37 13C2-6:2 FTS	429.1 > 408.9	1.27e3	7.26e3	0.235	0.192	4.46	4.30	2.19	48.4193	91.0
8	38 13C2-PFOA	414.9 > 369.7	6.60e3	7.26e3	0.235	1.001	4.50	4.35	11.4	48.2747	90.8
9	39 13C5-PFNA	468.2 > 422.9	5.04e3	6.77e3	0.235	0.811	4.94	4.78	9.30	48.7961	91.8
10	40 13C8-PFOA	506.1 > 77.7	1.00e3	6.73e3	0.235	0.196	5.00	4.85	1.86	40.3548	75.9
11	41 13C8-PFOS	507.0 > 79.9	1.76e3	1.95e3	0.235	0.862	5.02	4.86	11.3	55.8466	105.0
12	42 13C2-PFDA	515.1 > 469.9	5.39e3	5.75e3	0.235	0.996	5.31	5.15	11.7	50.0493	94.1
13	43 13C2-8:2 FTS	529.1 > 508.7	9.25e2	8.67e3	0.235	0.103	5.28	5.12	1.33	55.1440	103.7
14	44 d3-N-MeFOSAA	573.3 > 419	2.14e3	6.73e3	0.235	0.340	5.45	5.30	3.98	49.8349	93.7
15	45 d5-N-EtFOSAA	589.3 > 419	2.36e3	6.73e3	0.235	0.377	5.60	5.44	4.39	49.5993	93.3
16	46 13C2-PFUdA	565 > 519.8	5.71e3	6.73e3	0.235	0.944	5.62	5.47	10.6	47.8459	90.0
17	47 13C2-PFDoA	615.0 > 569.7	3.85e3	6.73e3	0.235	0.726	5.91	5.75	7.15	41.8957	78.8
18	49 13C2-PFTeDA	714.8 > 669.6	1.63e3	6.73e3	0.235	0.371	6.35	6.20	3.02	34.6064	65.1
19	55 13C5-PFHxA	318 > 272.9	8.67e3	8.67e3	0.235	1.000	3.36	3.22	12.5	53.1802	100.0
20	56 13C3-PFHxS	401.9 > 79.9	1.88e3	1.88e3	0.235	1.000	4.14	3.98	12.5	53.1802	100.0
21	57 13C8-PFOA	421.3 > 376	7.26e3	7.26e3	0.235	1.000	4.50	4.35	12.5	53.1802	100.0
22	58 13C9-PFNA	472.2 > 426.9	6.77e3	6.77e3	0.235	1.000	4.94	4.78	12.5	53.1802	100.0
23	59 13C4-PFOS	503 > 79.9	1.95e3	1.95e3	0.235	1.000	5.02	4.86	12.5	53.1802	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.75e3	5.75e3	0.235	1.000	5.31	5.15	12.5	53.1802	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.73e3	6.73e3	0.235	1.000	5.62	5.47	12.5	53.1802	100.0
26	62 Total PFHxS	398.9 > 79.6	1.07e1	6.66e2	0.235		4.14		0.201	0.3278	
27	63 Total PFOA	413 > 368.7	4.59e3	6.60e3	0.235		4.51		8.68	31.6463	
28	64 Total PFOS	499 > 79.9	5.13e1	1.76e3	0.235		5.02		0.364	1.5671	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.14e3	0.235		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.36e3	0.235		5.61		0.000		

Use only

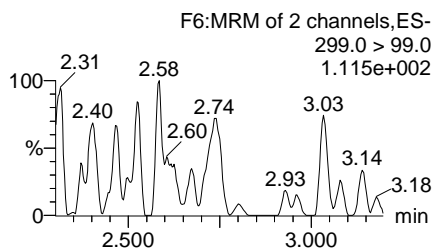
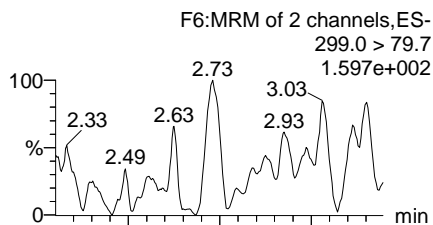
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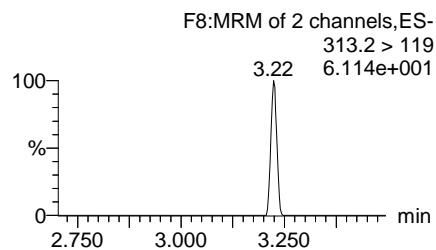
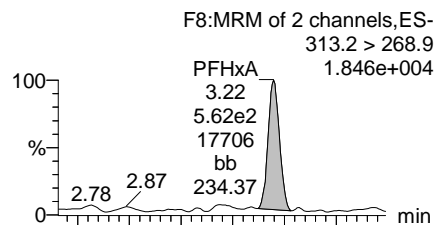
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Name: 180115M2_57, Date: 16-Jan-2018, Time: 11:02:44, ID: 1701953-10 SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

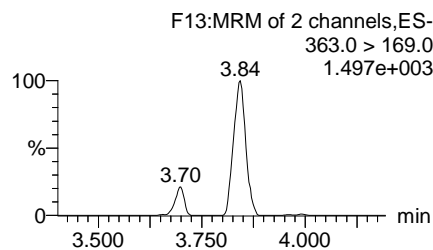
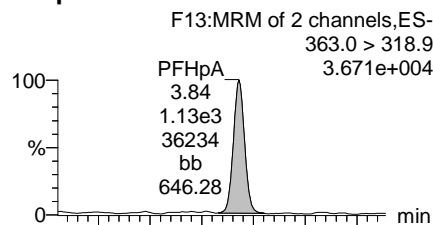
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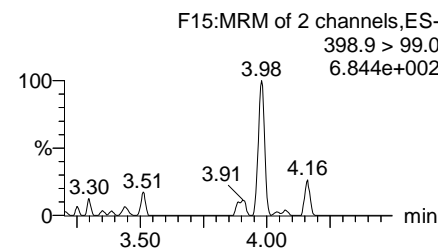
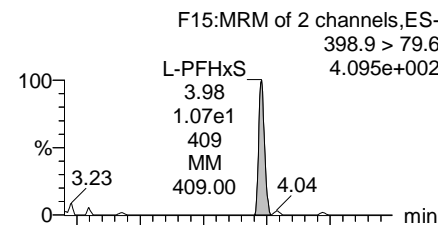
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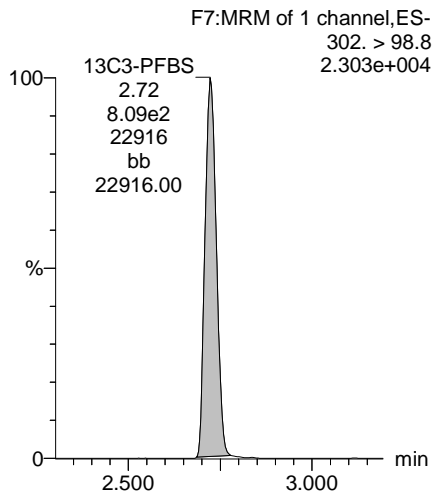
PFHpA



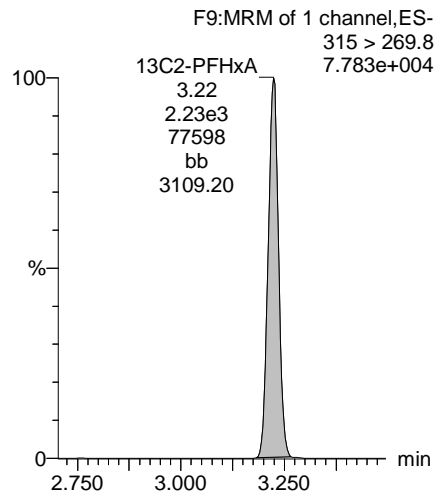
Total PFHxS



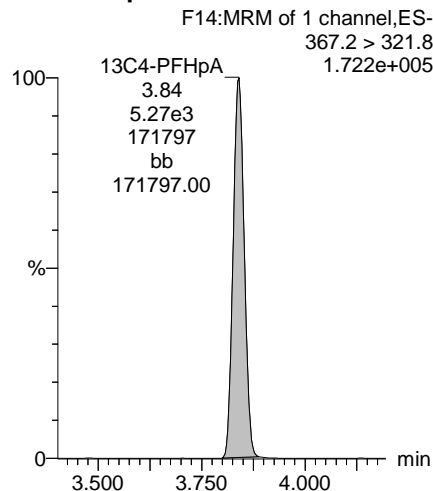
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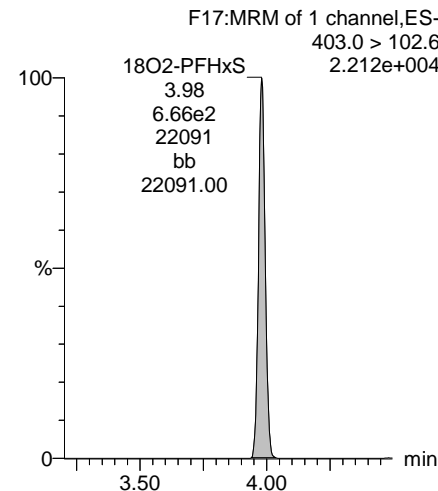
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13C4-PFHpA



18O2-PFHxS

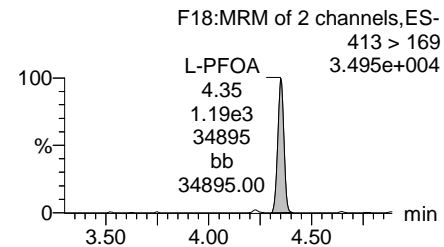
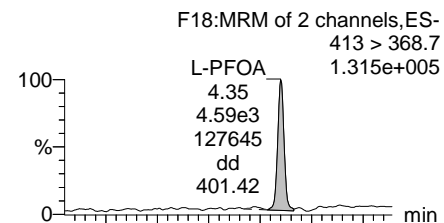


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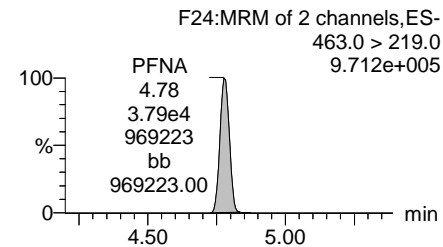
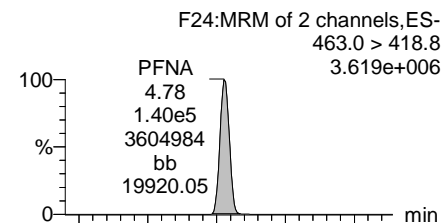
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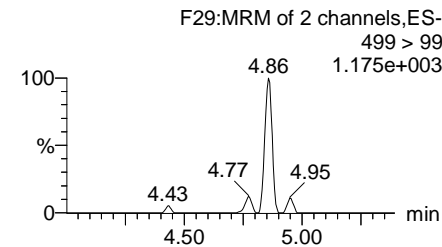
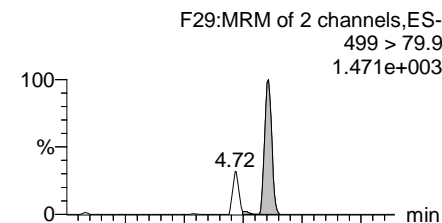
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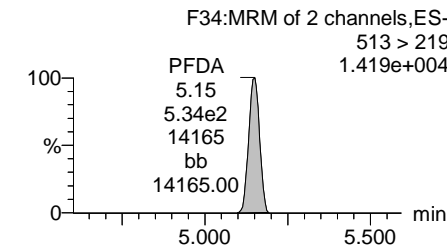
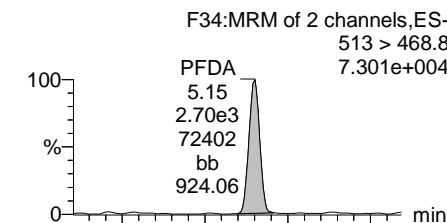
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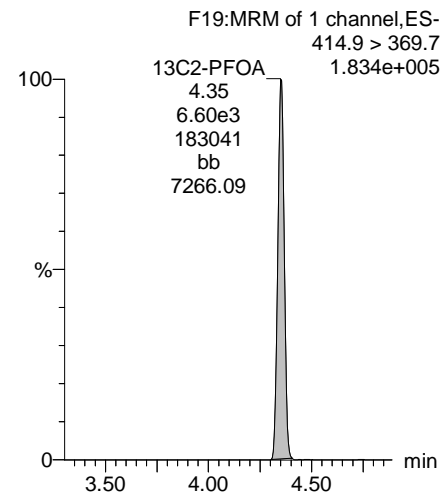
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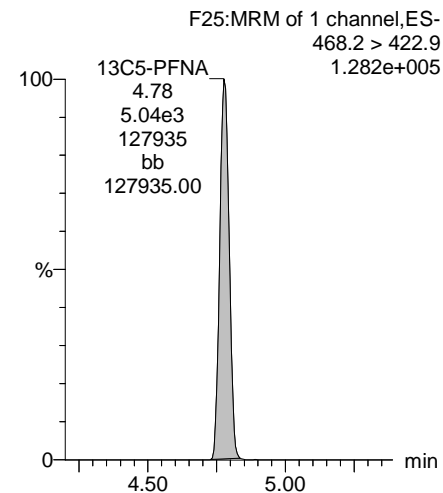
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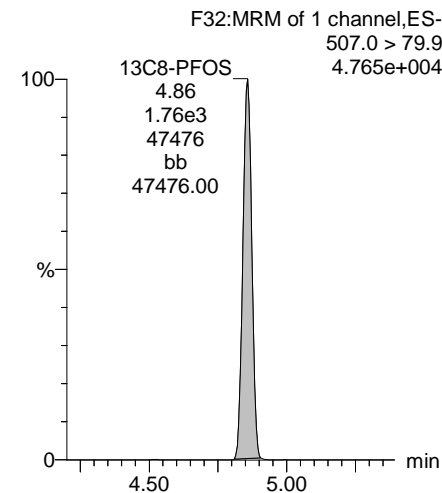
13C2-PFOA



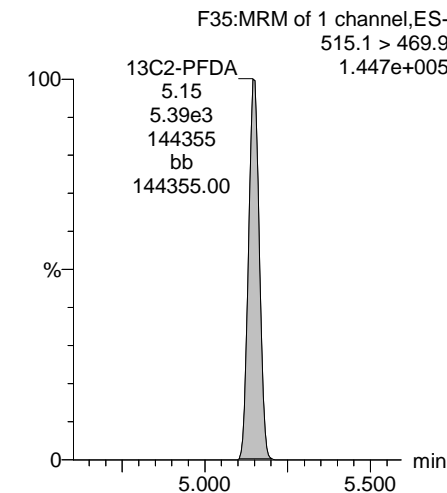
13C5-PFNA



13C8-PFOS



13C2-PFDA



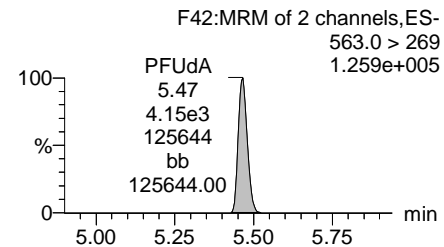
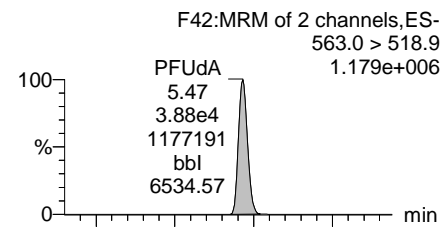
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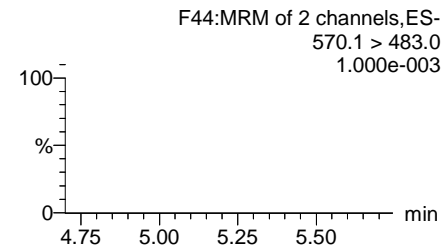
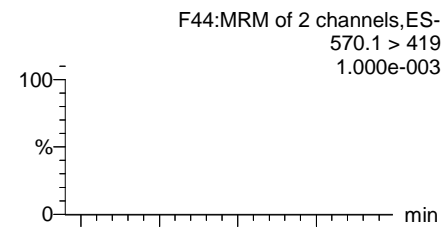
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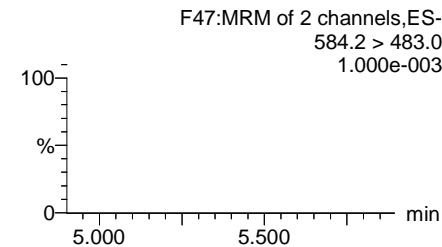
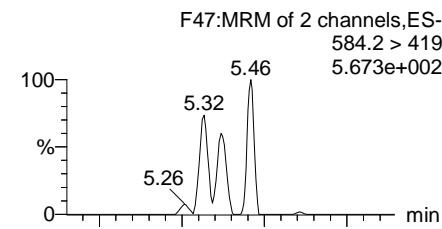
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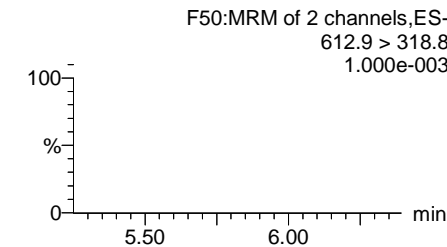
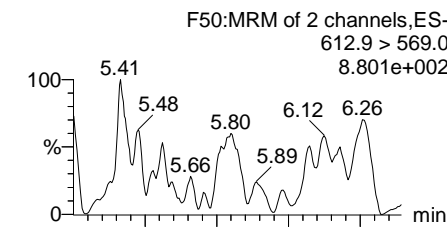
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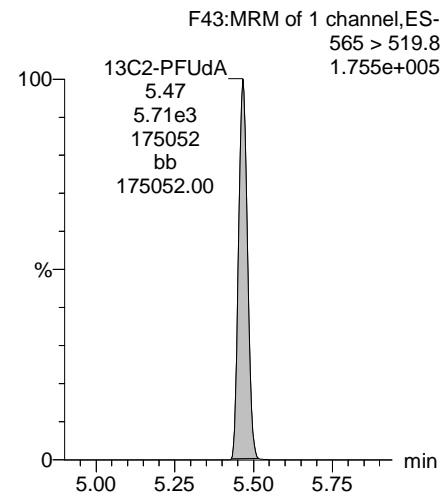
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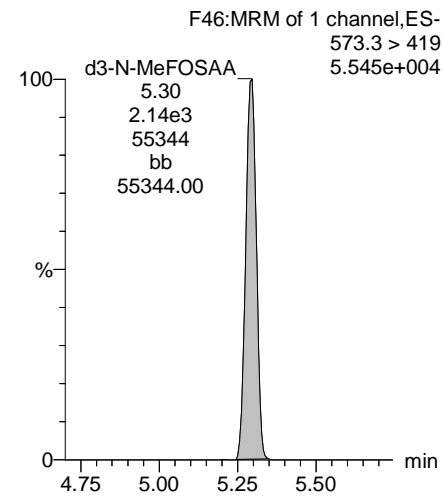
PFDaA



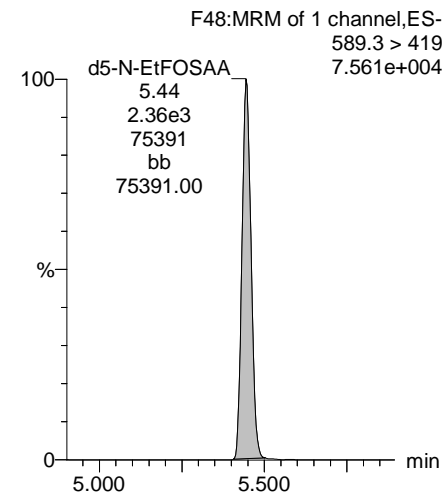
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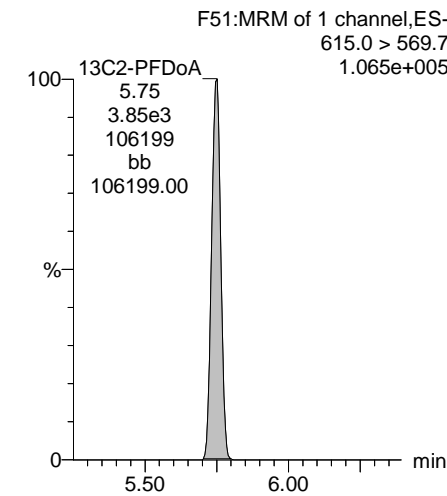
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA

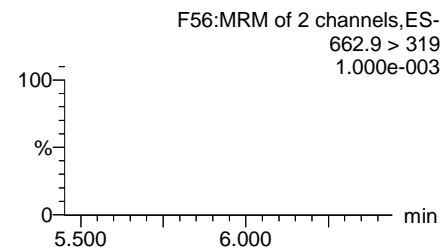
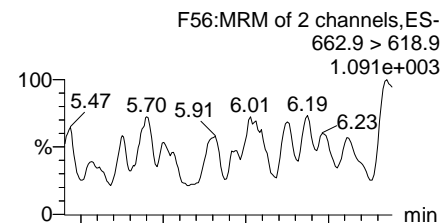


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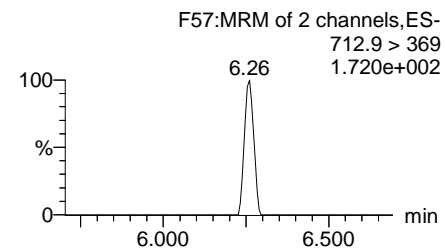
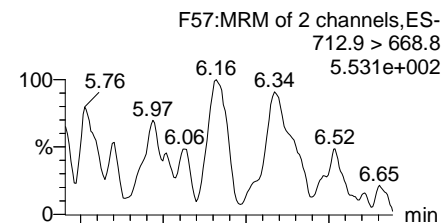
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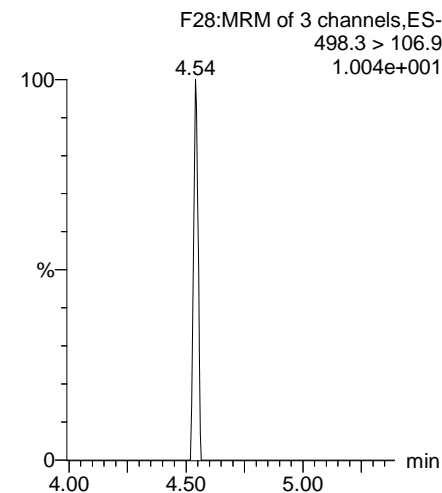
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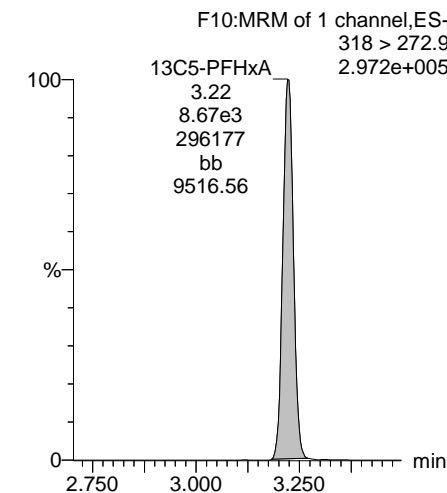
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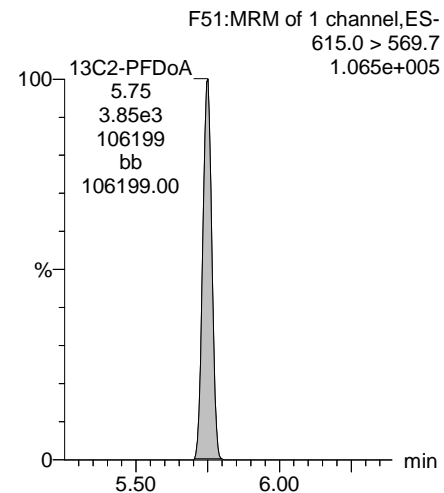
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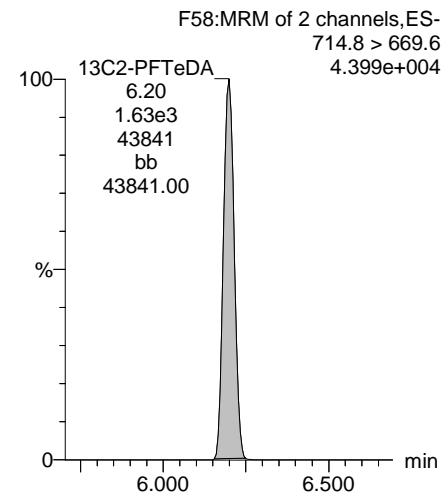
13C5-PFHxA



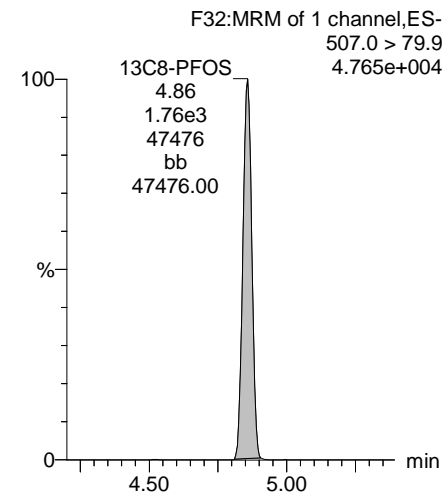
13C2-PFDoA



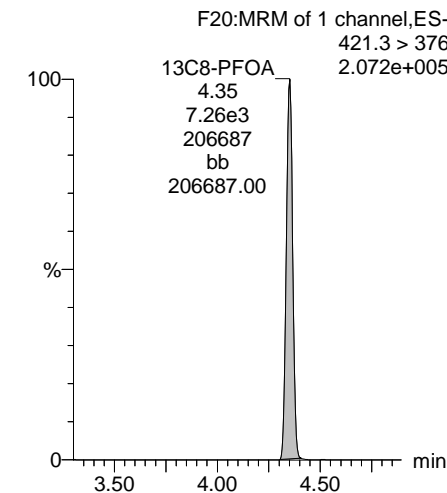
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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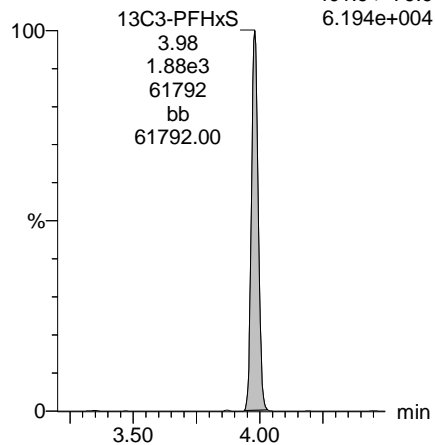
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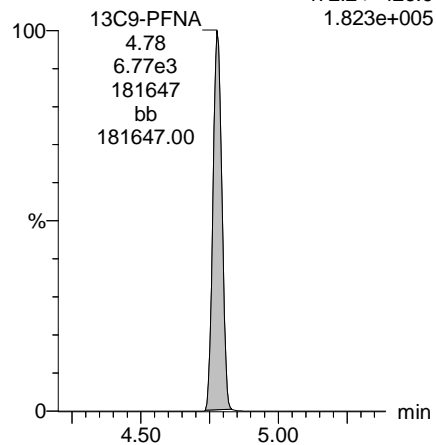
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
6.194e+004



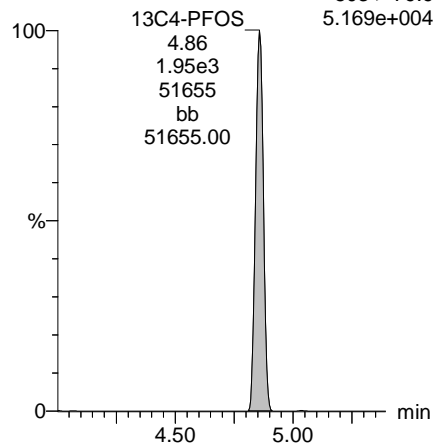
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
1.823e+005



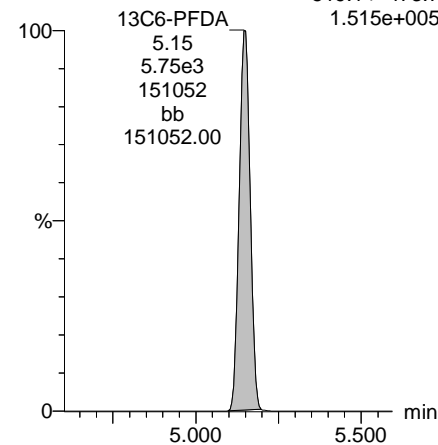
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
5.169e+004



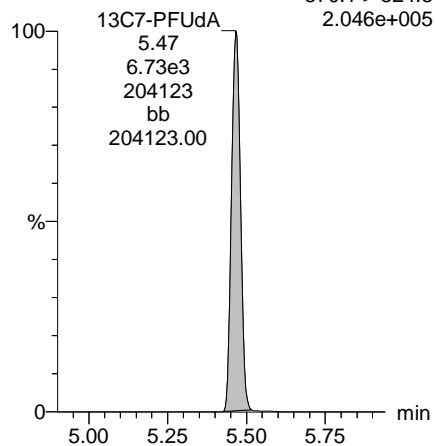
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.515e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.046e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-113.qld

Last Altered: Thursday, January 18, 2018 11:55:25 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:58:54 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_113, Date: 16-Jan-2018, Time: 22:04:16, ID: 1701953-10 SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		8.98e2	0.235		2.87				
2	4 PFHxA	313.2 > 268.9	6.33e2	2.21e3	0.235		3.36	3.16	1.43	3.4307	
3	5 PFHpA	363.0 > 318.9	1.12e3	5.54e3	0.235		4.00	3.78	2.52	7.3440	
4	6 L-PFHxS	398.9 > 79.6	1.14e1	7.06e2	0.235		3.94	3.92	0.201	0.3285	
5	9 L-PFOA	413 > 368.7	4.09e3	7.69e3	0.235		4.34	4.30	6.64	23.8935	
6	12 PFNA	463.0 > 418.8	1.57e5	5.96e3	0.235		4.94	4.73	328	870.8139	See dil
7	14 L-PFOS	499 > 79.9	8.04e1	1.56e3	0.235		5.02	4.81	0.646	2.6491	
8	16 PFDA	513 > 468.8	2.78e3	5.34e3	0.235		5.31	5.10	6.50	19.2798	
9	18 N-MeFOSAA	570.1 > 419		2.60e3	0.235		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.88e3	0.235		5.60				
11	20 PFUdA	563.0 > 518.9	4.22e4	5.73e3	0.235		5.62	5.42	92.1		See orig. inj.
12	22 PFDoA	612.9 > 569.0		3.58e3	0.235		5.91				

Dataset: U:\Q4.PRO\results\180115M2\180115M2-113.qld

Last Altered: Thursday, January 18, 2018 11:55:25 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:59:05 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_113, Date: 16-Jan-2018, Time: 22:04:16, ID: 1701953-10 SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.58e3	0.235		6.15				
2	25 PFTeDA	712.9 > 668.8		1.75e3	0.235		6.35				
3	33 13C3-PFBS	302. > 98.8	8.98e2	8.93e3	0.235	0.095	2.87	2.67	1.26	56.2284	105.7
4	34 13C2-PFHxA	315 > 269.8	2.21e3	8.93e3	0.235	0.636	3.36	3.16	3.09	20.6687	97.2
5	35 13C4-PFHpA	367.2 > 321.8	5.54e3	8.93e3	0.235	0.621	4.00	3.78	7.75	53.1205	99.9
6	36 18O2-PFHxS	403.0 > 102.6	7.06e2	2.39e3	0.235	0.336	4.14	3.93	3.70	46.8278	88.1
7	37 13C2-6:2 FTS	429.1 > 408.9	1.49e3	8.33e3	0.235	0.192	4.46	4.24	2.24	49.5545	93.2
8	38 13C2-PFOA	414.9 > 369.7	7.69e3	8.33e3	0.235	1.001	4.50	4.30	11.6	49.0796	92.3
9	39 13C5-PFNA	468.2 > 422.9	5.96e3	9.02e3	0.235	0.811	4.94	4.73	8.26	43.3325	81.5
10	40 13C8-PFOA	506.1 > 77.7	1.33e3	6.48e3	0.235	0.196	5.00	4.79	2.56	55.5264	104.4
11	41 13C8-PFOS	507.0 > 79.9	1.56e3	2.25e3	0.235	0.862	5.02	4.81	8.63	42.6120	80.1
12	42 13C2-PFDA	515.1 > 469.9	5.34e3	5.14e3	0.235	0.996	5.31	5.10	13.0	55.5579	104.5
13	43 13C2-8:2 FTS	529.1 > 508.7	8.31e2	8.93e3	0.235	0.103	5.28	5.07	1.16	48.0328	90.3
14	44 d3-N-MeFOSAA	573.3 > 419	2.60e3	6.48e3	0.235	0.340	5.45	5.25	5.01	62.6384	117.8
15	45 d5-N-EtFOSAA	589.3 > 419	2.88e3	6.48e3	0.235	0.377	5.60	5.40	5.56	62.7470	118.0
16	46 13C2-PFUdA	565 > 519.8	5.73e3	6.48e3	0.235	0.944	5.62	5.42	11.1	49.8554	93.7
17	47 13C2-PFDoA	615.0 > 569.7	3.58e3	6.48e3	0.235	0.726	5.91	5.70	6.91	40.4839	76.1
18	49 13C2-PFTeDA	714.8 > 669.6	1.75e3	6.48e3	0.235	0.371	6.35	6.16	3.38	38.6854	72.7
19	55 13C5-PFHxA	318 > 272.9	8.93e3	8.93e3	0.235	1.000	3.36	3.16	12.5	53.1802	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.39e3	2.39e3	0.235	1.000	4.14	3.93	12.5	53.1802	100.0
21	57 13C8-PFOA	421.3 > 376	8.33e3	8.33e3	0.235	1.000	4.50	4.30	12.5	53.1802	100.0
22	58 13C9-PFNA	472.2 > 426.9	9.02e3	9.02e3	0.235	1.000	4.94	4.73	12.5	53.1802	100.0
23	59 13C4-PFOS	503 > 79.9	2.25e3	2.25e3	0.235	1.000	5.02	4.81	12.5	53.1802	100.0
24	60 13C6-PFDA	519.1 > 473.7	5.14e3	5.14e3	0.235	1.000	5.31	5.10	12.5	53.1802	100.0
25	61 13C7-PFUdA	570.1 > 524.8	6.48e3	6.48e3	0.235	1.000	5.62	5.42	12.5	53.1802	100.0
26	62 Total PFHxS	398.9 > 79.6	1.14e1	7.06e2	0.235		4.14		0.201	0.3285	
27	63 Total PFOA	413 > 368.7	4.09e3	7.69e3	0.235		4.51		6.64	23.8935	
28	64 Total PFOS	499 > 79.9	8.04e1	1.56e3	0.235		5.02		0.646	2.6491	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	2.60e3	0.235		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.88e3	0.235		5.61		0.000		

See original run

Dataset: U:\Q4.PRO\results\180115M2\180115M2-113.qld

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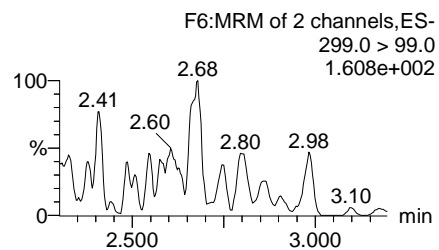
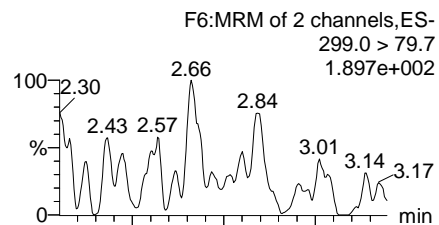
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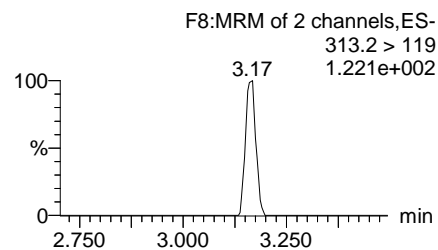
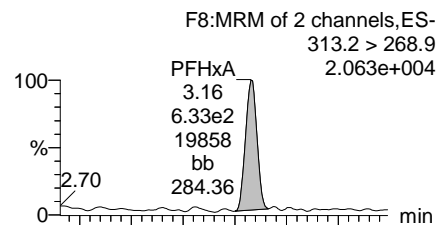
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Name: 180115M2_113, Date: 16-Jan-2018, Time: 22:04:16, ID: 1701953-10 SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

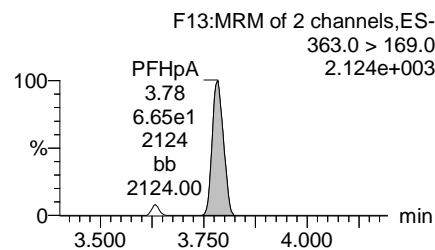
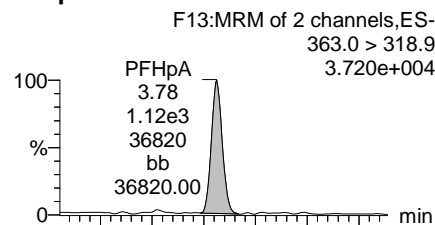
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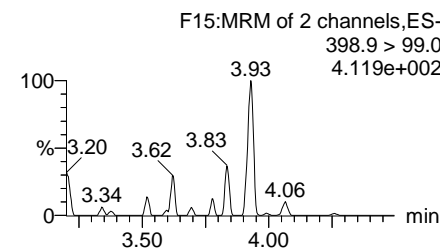
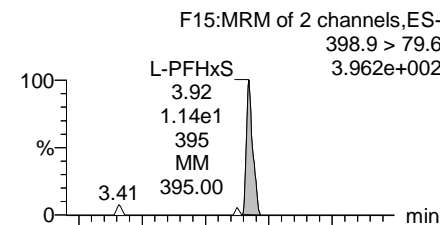
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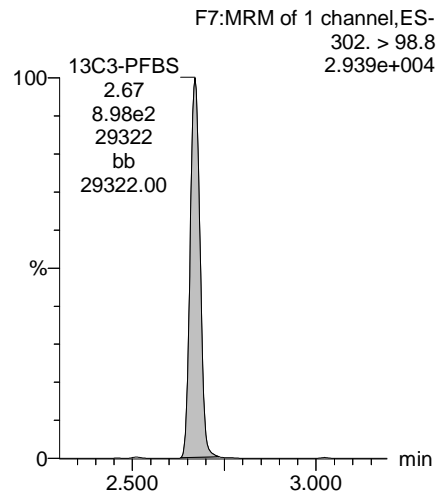
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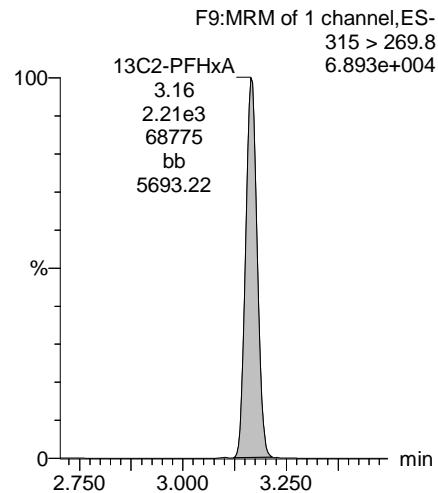
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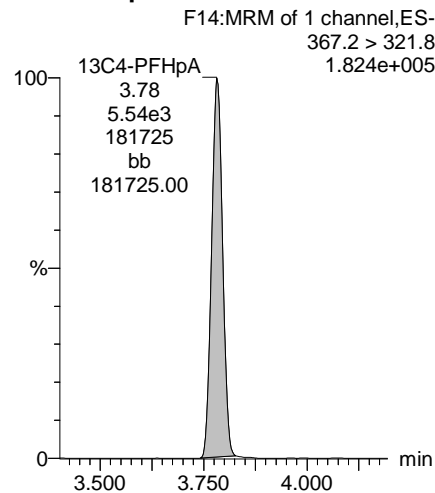
13C3-PFBS



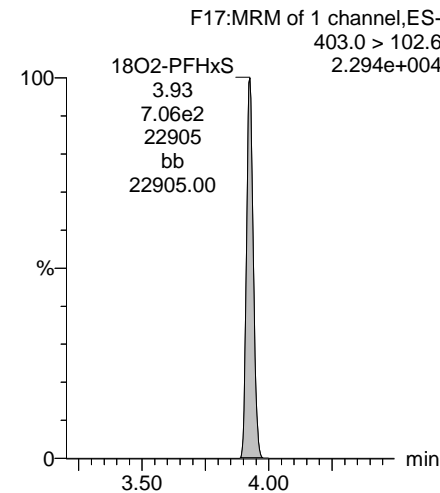
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



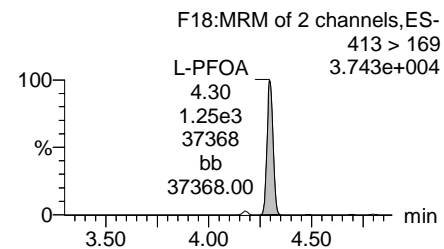
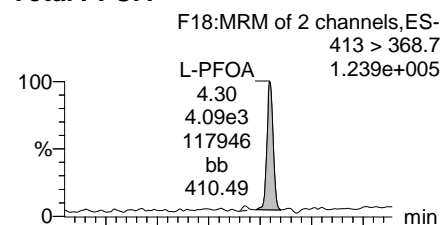
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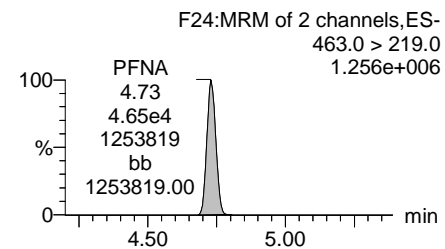
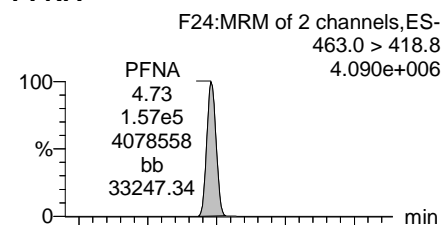
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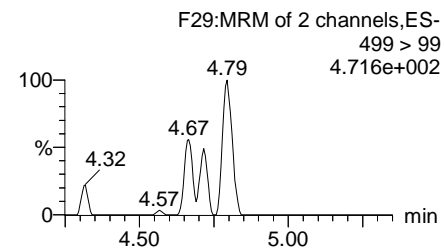
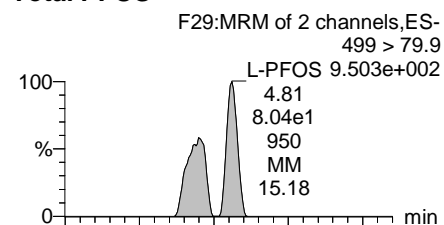
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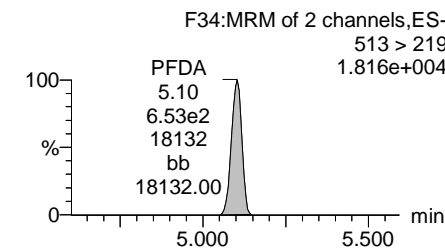
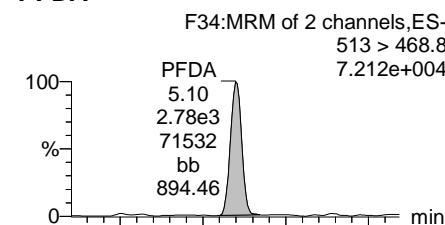
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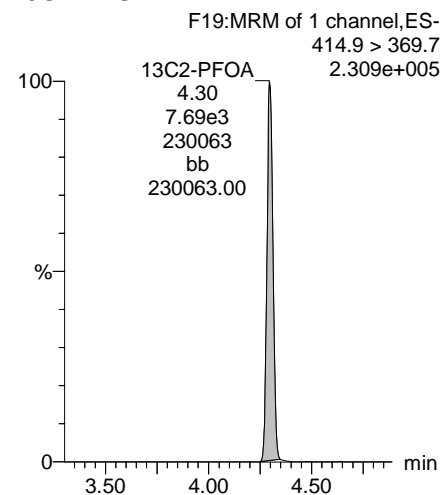
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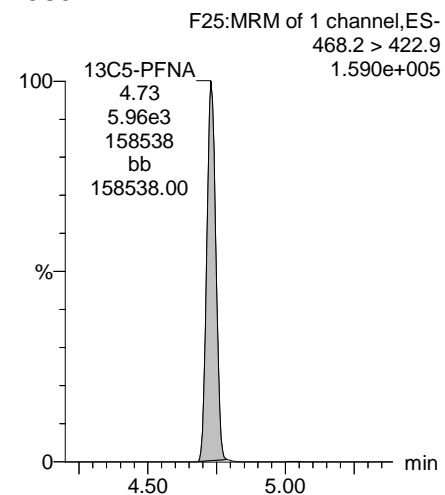
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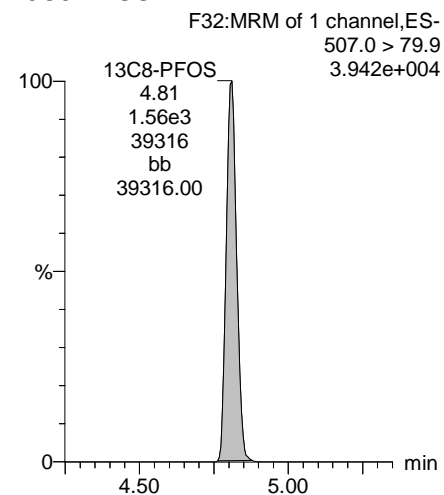
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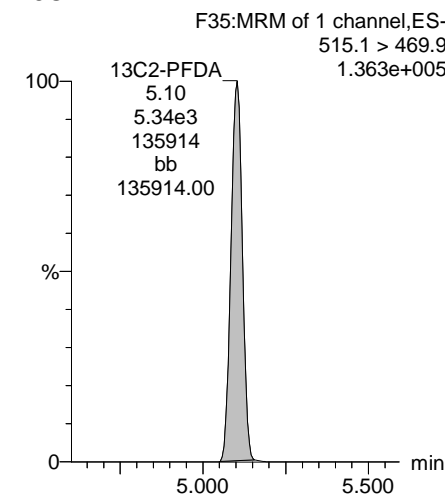
13C5-PFNA



13C8-PFOS



13C2-PFDA

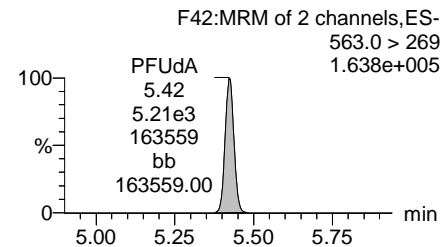
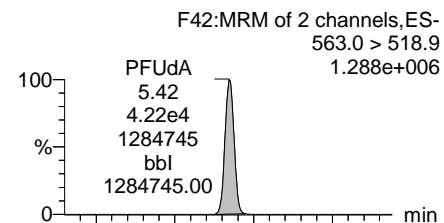


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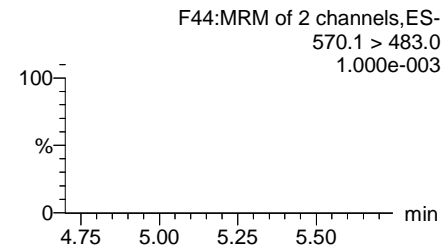
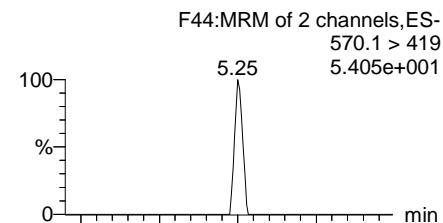
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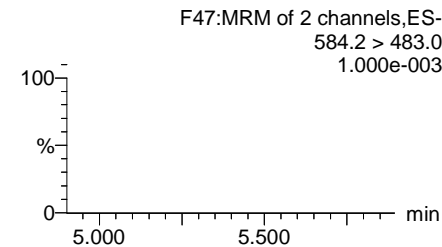
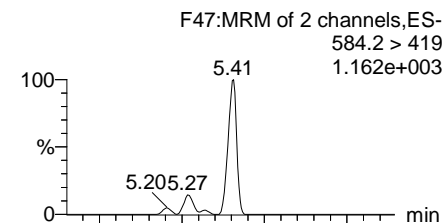
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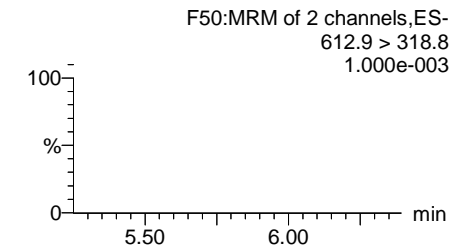
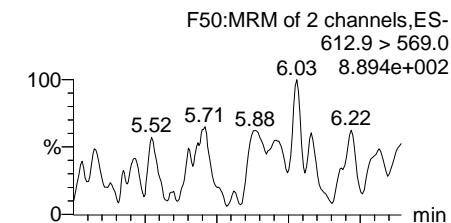
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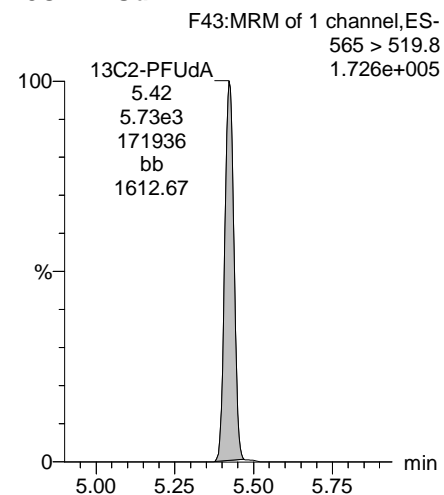
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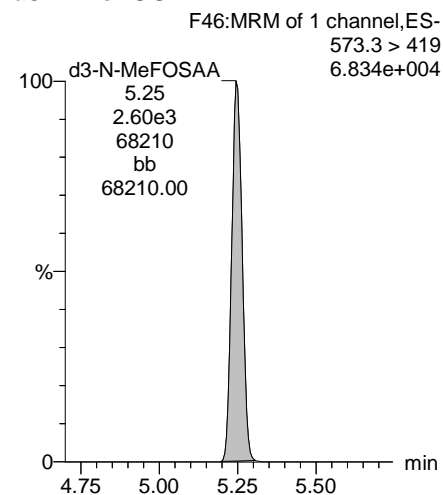
PFDaA



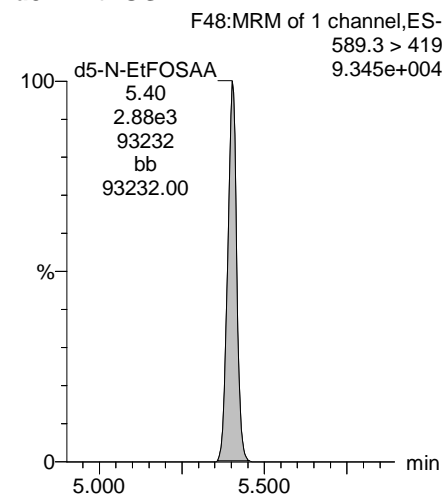
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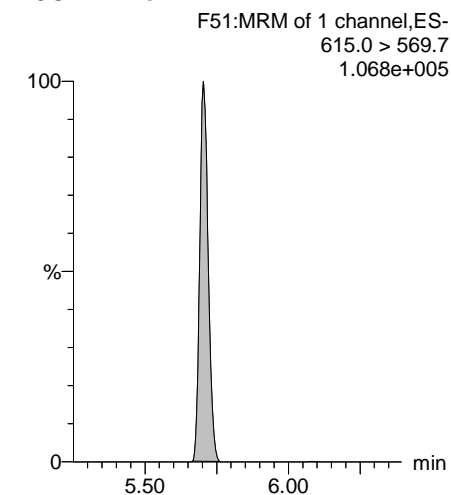
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



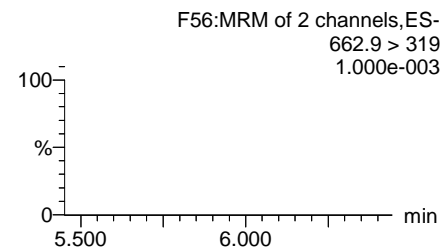
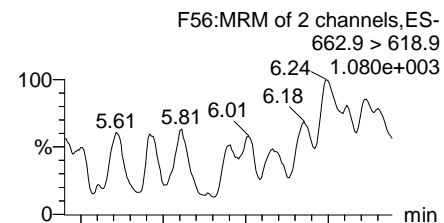
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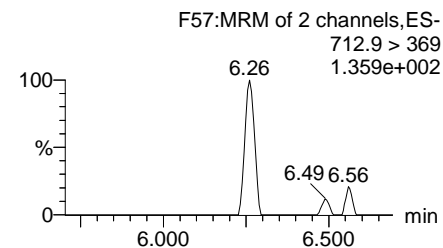
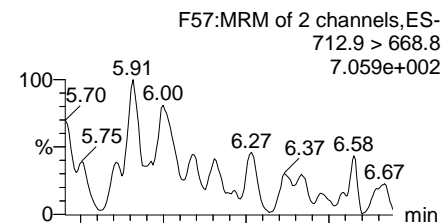
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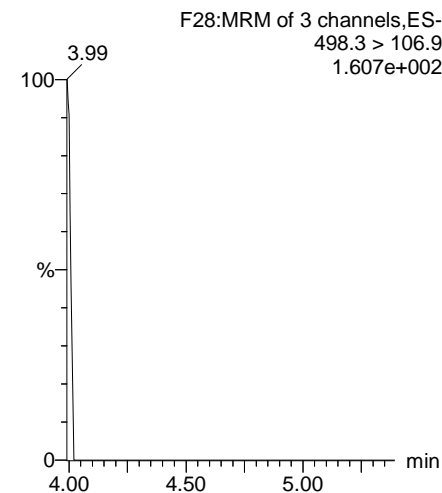
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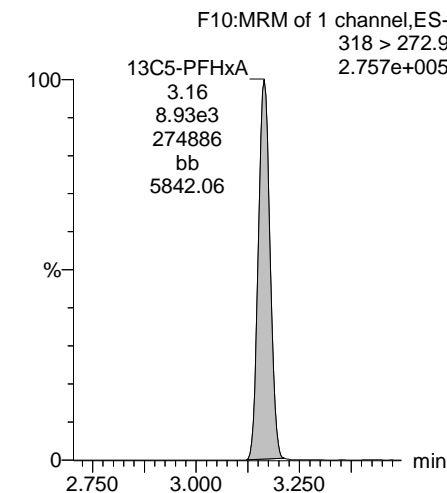
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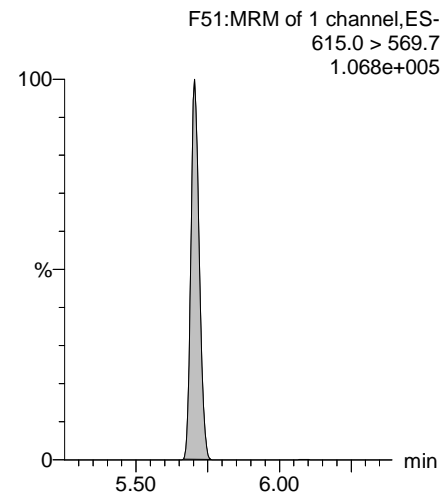
TCDA



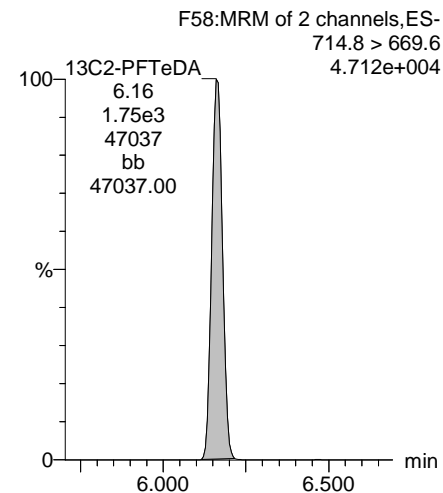
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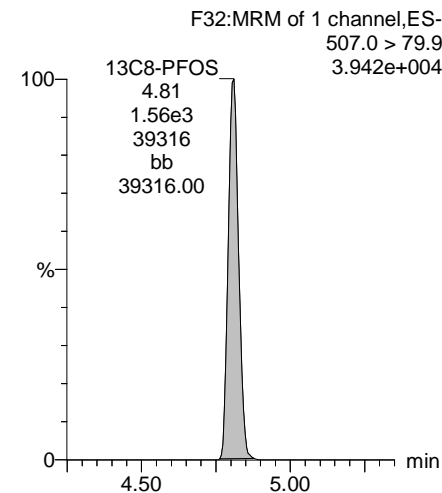
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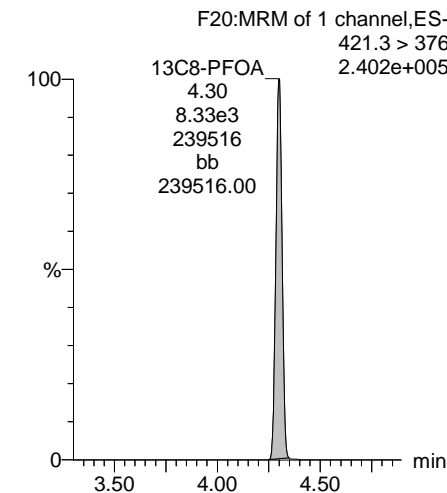
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



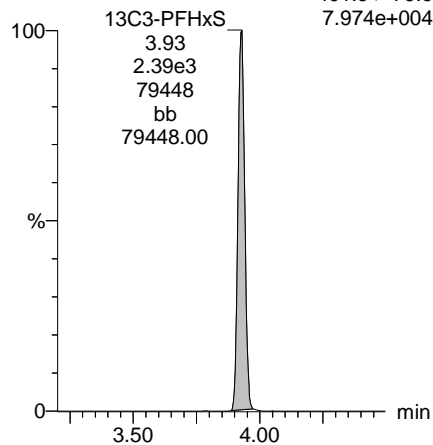
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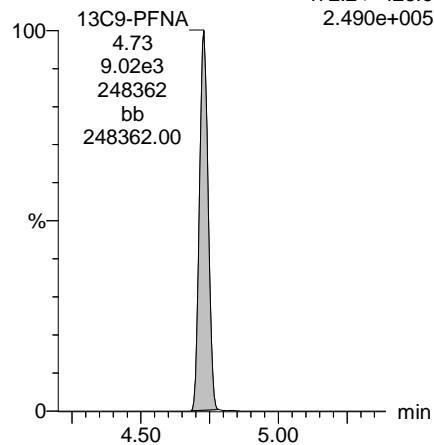
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.974e+004



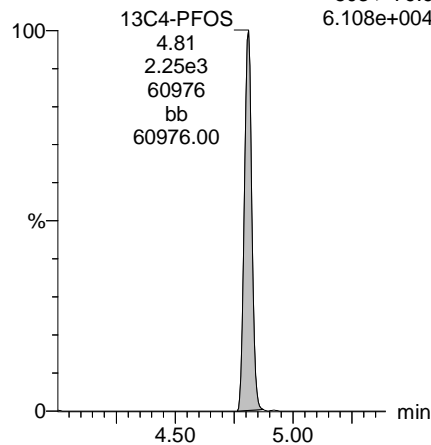
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.490e+005



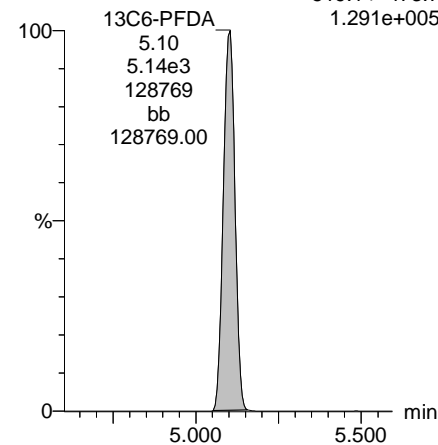
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.108e+004



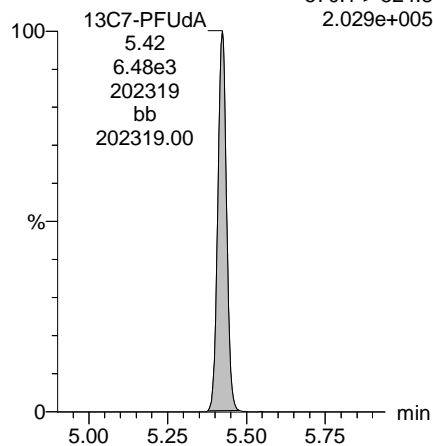
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.291e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.029e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-101.qld

Last Altered: Thursday, January 18, 2018 11:12:56 Pacific Standard Time

Printed: Thursday, January 18, 2018 11:14:13 Pacific Standard Time

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

Name: 180115M2_101, Date: 16-Jan-2018, Time: 19:46:55, ID: 1701953-10@5X SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

	# Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	12 PFNA	463.0 > 418.8	4.01e4	1.28e3		0.2351	4.94	4.73	391	1010	
2	39 13C5-PFNA	468.2 > 422.9	1.28e3	1.76e3	0.811	0.2351	4.94	4.74	9.10	47.8	89.8
3	58 13C9-PFNA	472.2 > 426.9	1.76e3	1.76e3	1.000	0.2351	4.94	4.74	12.5	53.2	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-101.qld

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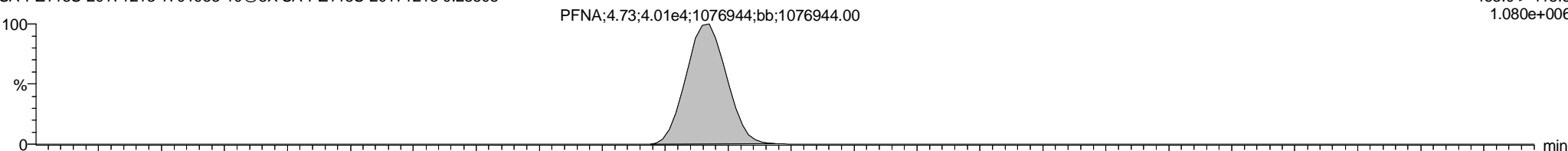
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PFNA

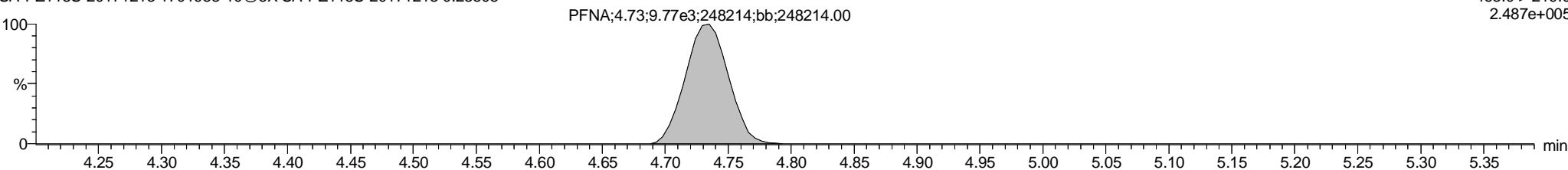
180115M2_101 Smooth(Mn,1x2)
SA-PZ118S-20171213 1701953-10@5X SA-PZ118S-20171213 0.23505

F24:MRM of 2 channels,ES-
463.0 > 418.8
1.080e+006



180115M2_101 Smooth(Mn,1x2)
SA-PZ118S-20171213 1701953-10@5X SA-PZ118S-20171213 0.23505

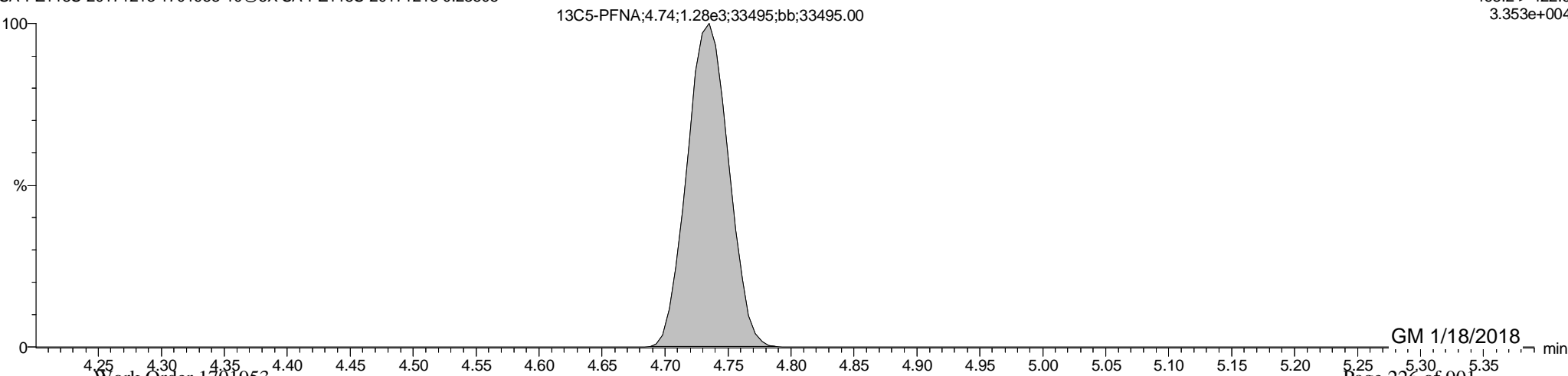
F24:MRM of 2 channels,ES-
463.0 > 219.0
2.487e+005



13C5-PFNA

180115M2_101 Smooth(Mn,1x2)
SA-PZ118S-20171213 1701953-10@5X SA-PZ118S-20171213 0.23505

F25:MRM of 1 channel,ES-
468.2 > 422.9
3.353e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-101.qld

Last Altered: Thursday, January 18, 2018 11:12:56 Pacific Standard Time

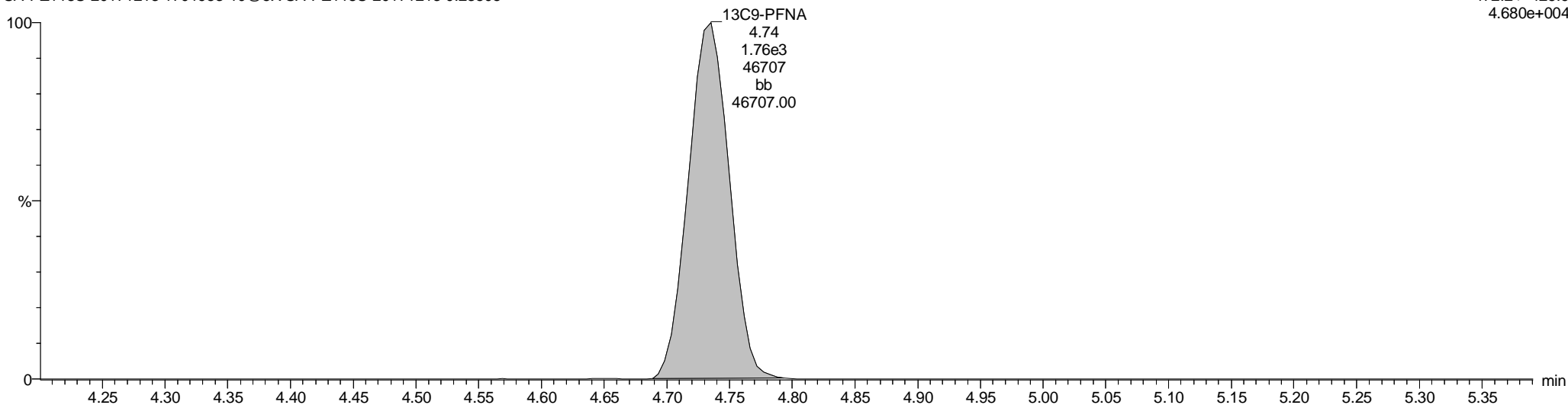
Printed: Thursday, January 18, 2018 11:14:13 Pacific Standard Time

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13C9-PFNA

180115M2_101 Smooth(Mn,1x2)
SA-PZ118S-20171213 1701953-10@5X SA-PZ118S-20171213 0.23505

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.680e+004



Vista Analytical Laboratory

Dataset: Z:\Projects\PFAS.PRO\Results\180130M2\180130M2-65.qld

Last Altered: Wednesday, January 31, 2018 14:32:26 Pacific Standard Time

Printed: Wednesday, January 31, 2018 14:32:41 Pacific Standard Time

Method: Z:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 13:32:41

Calibration: Z:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_65, Date: 30-Jan-2018, Time: 23:47:26, ID: 1701953-10@10X SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	23 PFUdA	563.0 > 518.9	6.31e3	7.44e2	0.23505		5.36	5.32	106	397.281	
2	49 13C2-PFUdA	565 > 519.8	7.44e2	1.09e3	0.23505	1.047	5.36	5.32	8.52	34.596	65.1
3	64 13C7-PFUdA	570.1 > 524.8	1.09e3	1.09e3	0.23505	1.000	5.36	5.32	12.5	53.180	100.0

Dataset: Z:\Projects\PFAS.PRO\Results\180130M2\180130M2-65.qld

Last Altered: Wednesday, January 31, 2018 14:32:26 Pacific Standard Time
Printed: Wednesday, January 31, 2018 14:32:41 Pacific Standard Time

Method: Z:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 13:32:41

Calibration: Z:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

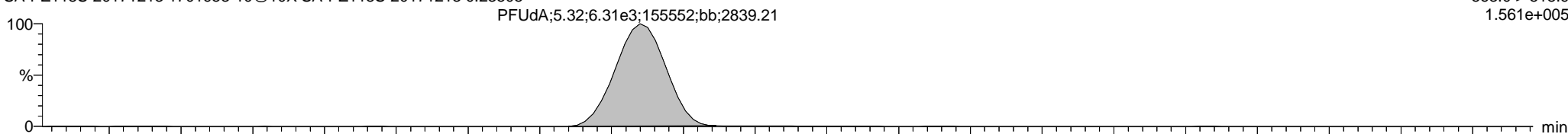
Name: 180130M2_65, Date: 30-Jan-2018, Time: 23:47:26, ID: 1701953-10@10X SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

PFUdA

180130M2_65 Smooth(Mn,1x2)

SA-PZ118S-20171213 1701953-10@10X SA-PZ118S-20171213 0.23505

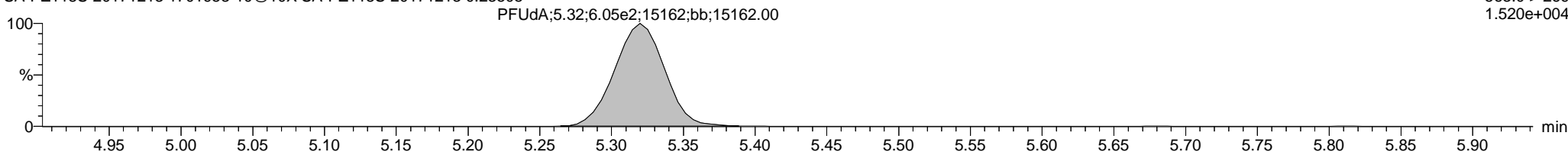
F45:MRM of 2 channels,ES-
563.0 > 518.9
1.561e+005



180130M2_65 Smooth(Mn,1x2)

SA-PZ118S-20171213 1701953-10@10X SA-PZ118S-20171213 0.23505

F45:MRM of 2 channels,ES-
563.0 > 269
1.520e+004

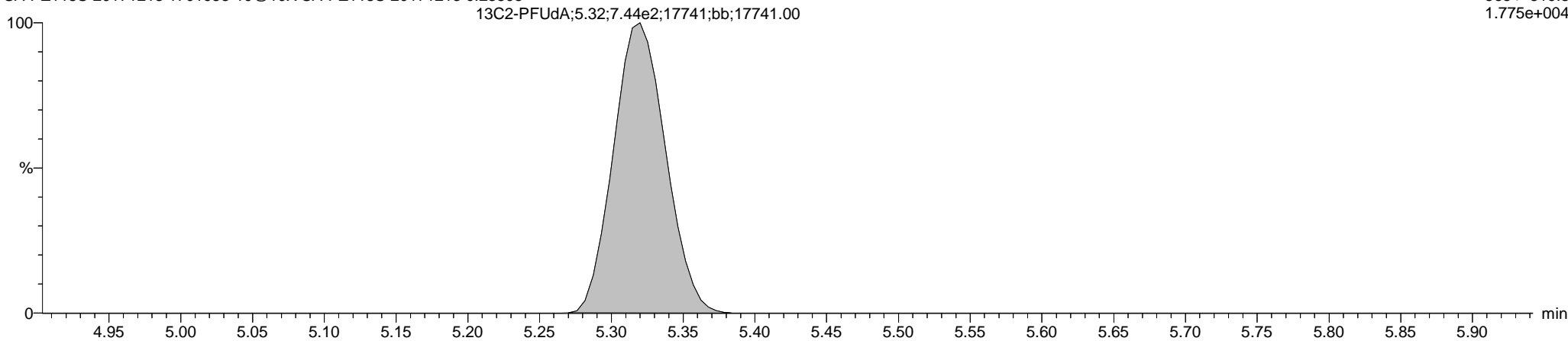


13C2-PFUdA

180130M2_65 Smooth(Mn,1x2)

SA-PZ118S-20171213 1701953-10@10X SA-PZ118S-20171213 0.23505

F46:MRM of 1 channel,ES-
565 > 519.8
1.775e+004



Dataset: Z:\Projects\PFAS.PRO\Results\180130M2\180130M2-65.qld

Last Altered: Wednesday, January 31, 2018 14:32:26 Pacific Standard Time

Printed: Wednesday, January 31, 2018 14:32:41 Pacific Standard Time

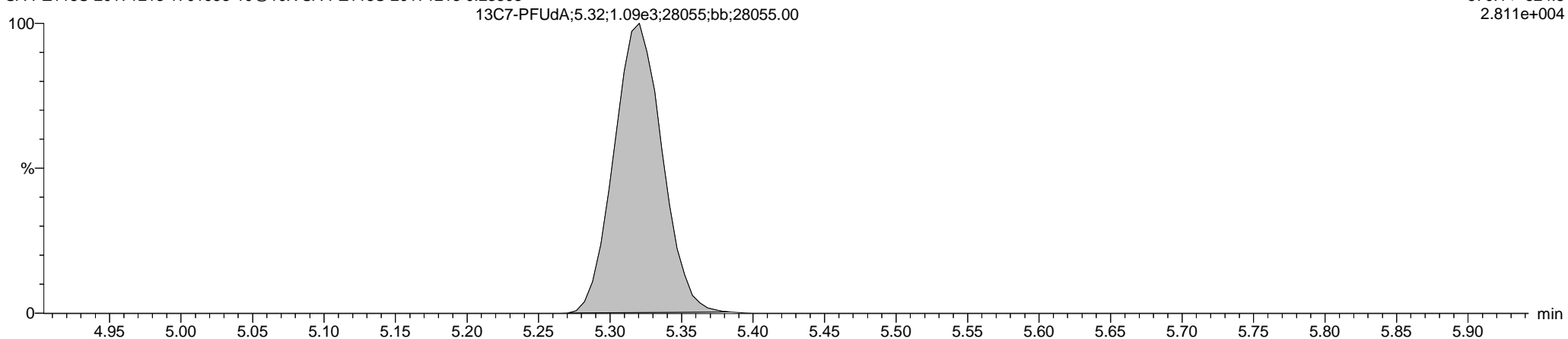
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13C7-PFUdA

180130M2_65 Smooth(Mn,1x2)

SA-PZ118S-20171213 1701953-10@10X SA-PZ118S-20171213 0.23505

F48:MRM of 1 channel,ES-
570.1 > 524.8
2.811e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-58.qld

Last Altered: Tuesday, January 16, 2018 14:09:28 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:09:53 Pacific Standard Time

See RI for all except PFUDa and PFTeDA

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

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

Name: 180115M2_58, Date: 16-Jan-2018, Time: 11:14:11, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

	# Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3 PFBS	299.0 > 79.7		8.68e2	0.241		2.87				
2	4 PFHxA	313.2 > 268.9		1.98e3	0.241		3.36				
3	5 PFHpA	363.0 > 318.9	1.09e2	5.03e3	0.241		4.00	3.84	0.270	0.9119	
4	6 L-PFHxS	398.9 > 79.6	1.66e1	5.90e2	0.241		4.14	3.99	0.353	0.6177	
5	9 L-PFOA	413 > 368.7		5.57e3	0.241		4.34				
6	12 PFNA	463.0 > 418.8	7.26e2	5.28e3	0.241		4.94	4.77	1.72	5.3429	
7	14 L-PFOS	499 > 79.9	1.91e1	1.64e3	0.241		5.02	4.85	0.145	0.7093	
8	16 PFDA	513 > 468.8		4.38e3	0.241		5.31				
9	18 N-MeFOSAA	570.1 > 419		1.91e3	0.241		5.45				
10	19 N-EtFOSAA	584.2 > 419		2.56e3	0.241		5.60				
11	20 PFUDa	563.0 > 518.9		5.69e3	0.241		5.62				
12	22 PFDoA	612.9 > 569.0		3.88e3	0.241		5.91				

Use only

Dataset: U:\Q4.PRO\results\180115M2\180115M2-58.qld

Last Altered: Tuesday, January 16, 2018 14:09:28 Pacific Standard Time

Printed: Tuesday, January 16, 2018 16:07:42 Pacific Standard Time

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

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

Name: 180115M2_58, Date: 16-Jan-2018, Time: 11:14:11, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24 PFTrDA	662.9 > 618.9		3.88e3	0.241		6.15				
2	25 PFTeDA	712.9 > 668.8		2.09e3	0.241		6.35				
3	33 13C3-PFBS	302. > 98.8	8.68e2	8.62e3	0.241	0.095	2.87	2.72	1.26	54.9739	106.0
4	34 13C2-PFHxA	315 > 269.8	1.98e3	8.62e3	0.241	0.636	3.36	3.22	2.88	18.7488	90.4
5	35 13C4-PFHpA	367.2 > 321.8	5.03e3	8.62e3	0.241	0.621	4.00	3.84	7.30	48.8046	94.1
6	36 18O2-PFHxS	403.0 > 102.6	5.90e2	2.22e3	0.241	0.336	4.14	3.98	3.32	40.9782	79.0
7	37 13C2-6:2 FTS	429.1 > 408.9	1.28e3	7.29e3	0.241	0.192	4.46	4.30	2.19	47.1221	90.9
8	38 13C2-PFOA	414.9 > 369.7	5.57e3	7.29e3	0.241	1.001	4.50	4.35	9.55	39.5739	76.3
9	39 13C5-PFNA	468.2 > 422.9	5.28e3	6.87e3	0.241	0.811	4.94	4.78	9.60	49.1175	94.7
10	40 13C8-PFOA	506.1 > 77.7	1.06e3	7.81e3	0.241	0.196	5.00	4.84	1.69	35.7077	68.9
11	41 13C8-PFOS	507.0 > 79.9	1.64e3	1.99e3	0.241	0.862	5.02	4.85	10.3	49.7961	96.1
12	42 13C2-PFDA	515.1 > 469.9	4.38e3	6.03e3	0.241	0.996	5.31	5.15	9.09	37.8458	73.0
13	43 13C2-8:2 FTS	529.1 > 508.7	9.09e2	8.62e3	0.241	0.103	5.28	5.12	1.32	53.1062	102.4
14	44 d3-N-MeFOSAA	573.3 > 419	1.91e3	7.81e3	0.241	0.340	5.45	5.29	3.06	37.3619	72.1
15	45 d5-N-EtFOSAA	589.3 > 419	2.56e3	7.81e3	0.241	0.377	5.60	5.44	4.10	45.1263	87.0
16	46 13C2-PFUdA	565 > 519.8	5.69e3	7.81e3	0.241	0.944	5.62	5.46	9.10	40.0002	77.2
17	47 13C2-PFDoA	615.0 > 569.7	3.88e3	7.81e3	0.241	0.726	5.91	5.75	6.21	35.4741	68.4
18	49 13C2-PFTeDA	714.8 > 669.6	2.09e3	7.81e3	0.241	0.371	6.35	6.19	3.34	37.3295	72.0
19	55 13C5-PFHxA	318 > 272.9	8.62e3	8.62e3	0.241	1.000	3.36	3.22	12.5	51.8414	100.0
20	56 13C3-PFHxS	401.9 > 79.9	2.22e3	2.22e3	0.241	1.000	4.14	3.98	12.5	51.8414	100.0
21	57 13C8-PFOA	421.3 > 376	7.29e3	7.29e3	0.241	1.000	4.50	4.35	12.5	51.8414	100.0
22	58 13C9-PFNA	472.2 > 426.9	6.87e3	6.87e3	0.241	1.000	4.94	4.78	12.5	51.8414	100.0
23	59 13C4-PFOS	503 > 79.9	1.99e3	1.99e3	0.241	1.000	5.02	4.85	12.5	51.8414	100.0
24	60 13C6-PFDA	519.1 > 473.7	6.03e3	6.03e3	0.241	1.000	5.31	5.15	12.5	51.8414	100.0
25	61 13C7-PFUdA	570.1 > 524.8	7.81e3	7.81e3	0.241	1.000	5.62	5.46	12.5	51.8414	100.0
26	62 Total PFHxS	398.9 > 79.6	1.66e1	5.90e2	0.241		4.14		0.353	0.6177	
27	63 Total PFOA	413 > 368.7	0.00e0	5.57e3	0.241		4.51		0.000		
28	64 Total PFOS	499 > 79.9	1.91e1	1.64e3	0.241		5.02		0.145	0.7093	
29	65 Total N-MeFOSAA	570.1 > 419	0.00e0	1.91e3	0.241		5.45		0.000		
30	66 Total N-EtFOSAA	584.2 > 419	0.00e0	2.56e3	0.241		5.61		0.000		

Use only

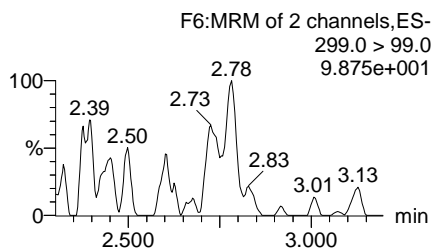
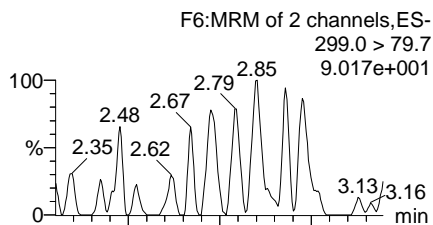
Dataset: U:\Q4.PRO\results\180115M2\180115M2-58.qld

Last Altered: Tuesday, January 16, 2018 14:09:28 Pacific Standard Time
Printed: Tuesday, January 16, 2018 14:10:04 Pacific Standard Time

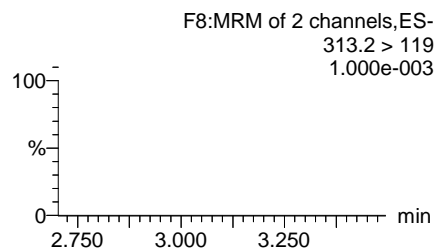
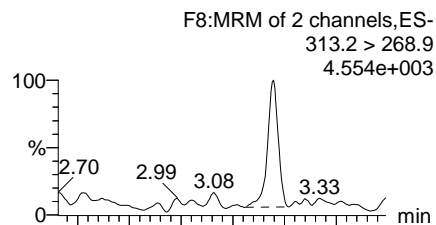
Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 13:43:12
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

Name: 180115M2_58, Date: 16-Jan-2018, Time: 11:14:11, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

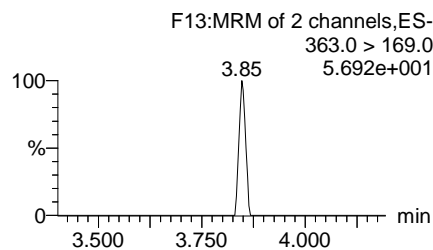
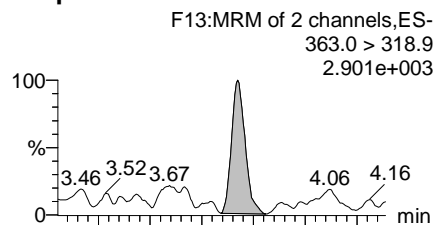
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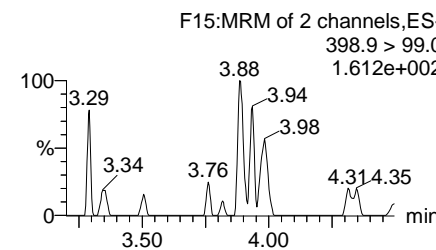
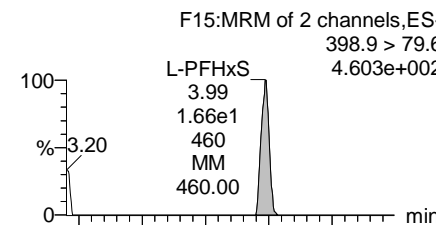
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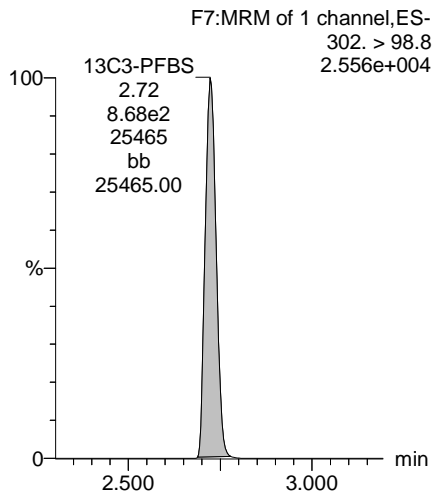
PFHpA



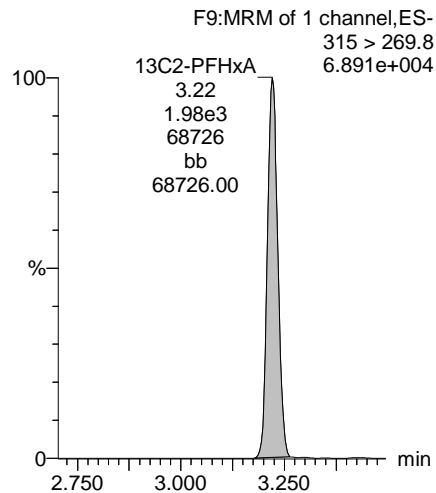
Total PFHxS



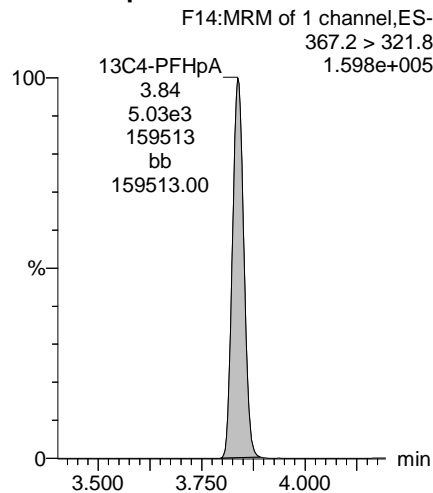
13C3-PFBS



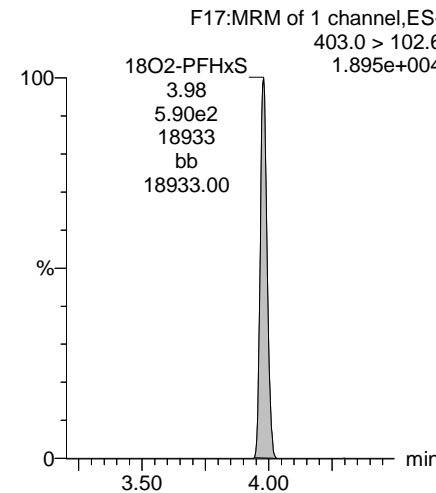
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



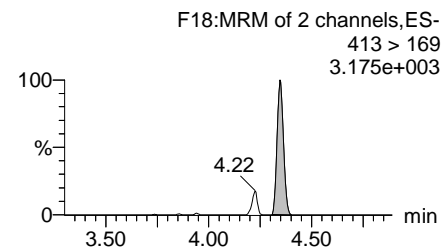
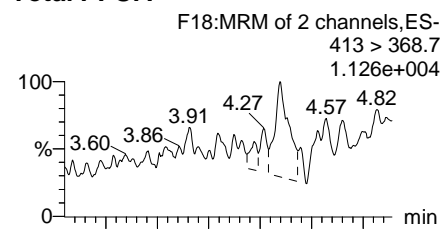
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Last Altered: Tuesday, January 16, 2018 14:09:28 Pacific Standard Time

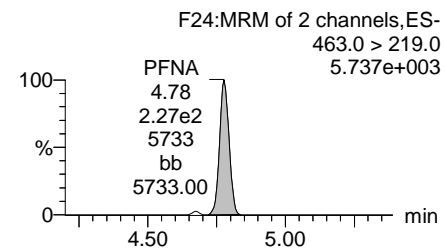
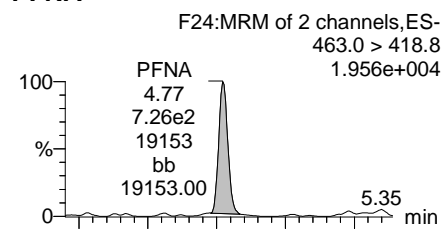
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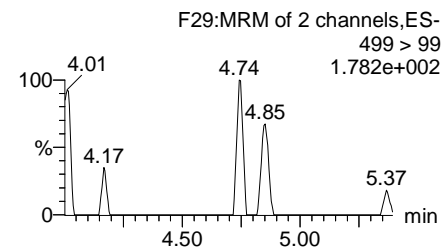
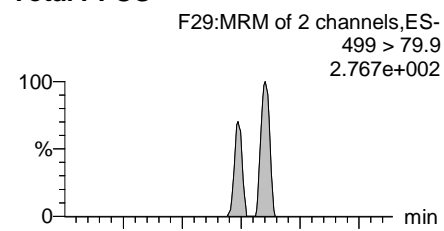
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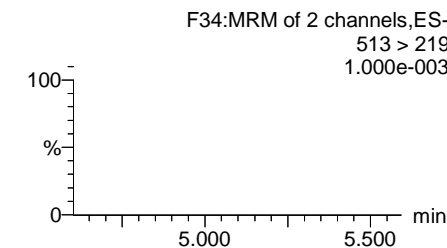
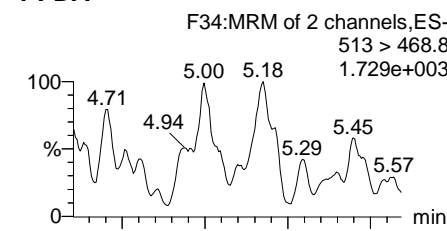
PFNA



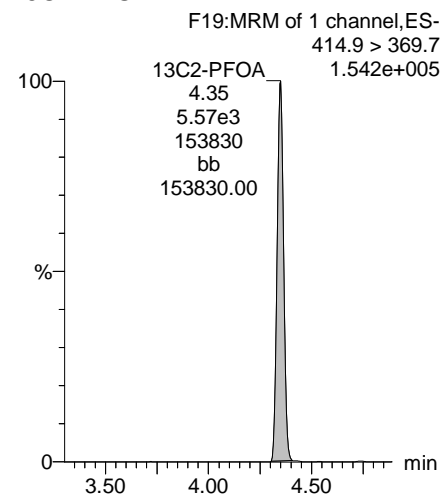
Total PFOS



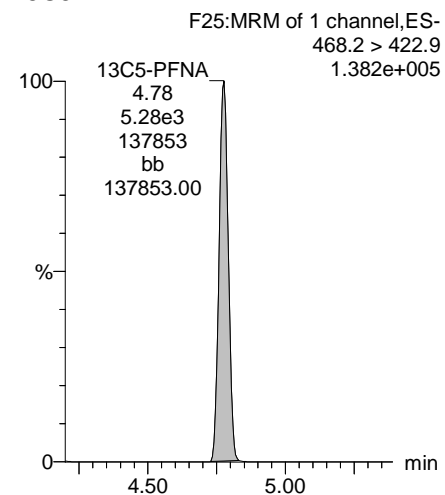
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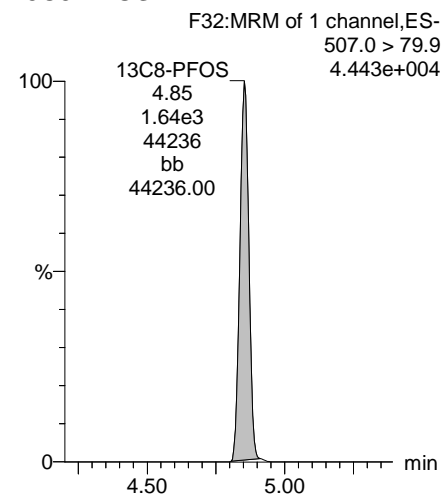
13C2-PFOA



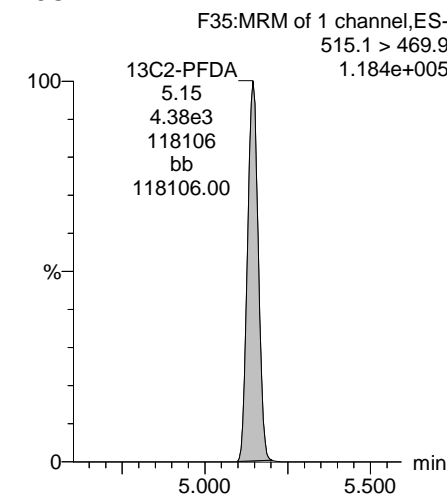
13C5-PFNA



13C8-PFOS



13C2-PFDA



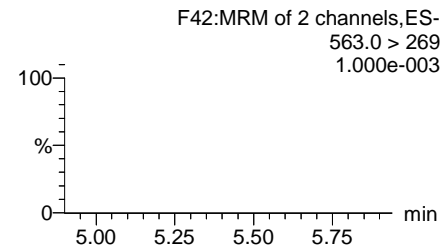
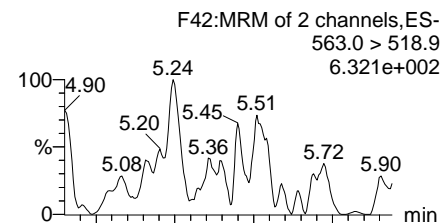
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Last Altered: Tuesday, January 16, 2018 14:09:28 Pacific Standard Time

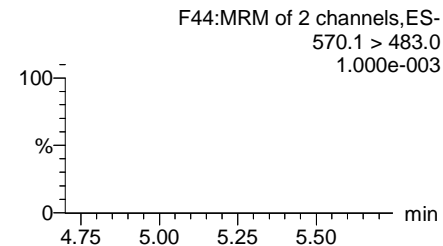
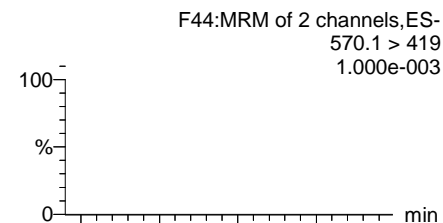
Printed: Tuesday, January 16, 2018 14:10:04 Pacific Standard Time

Name: 180115M2_58, Date: 16-Jan-2018, Time: 11:14:11, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

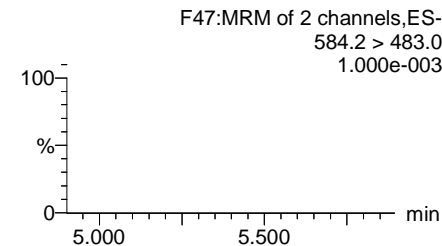
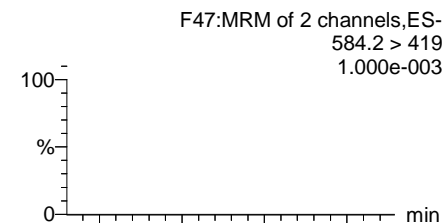
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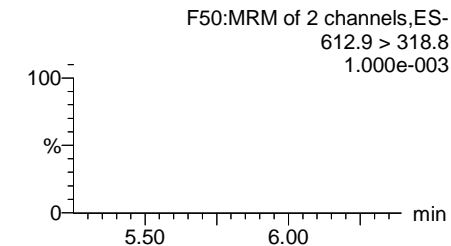
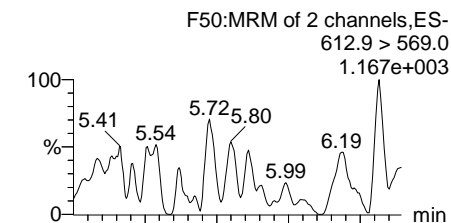
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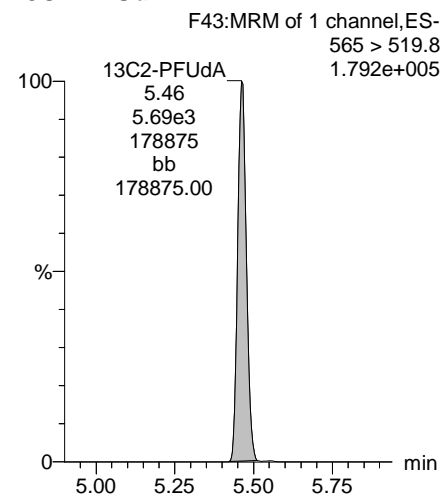
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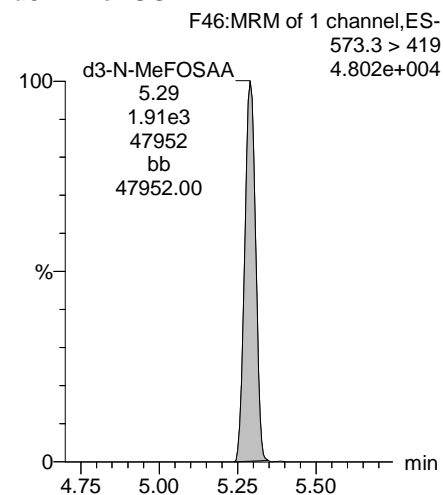
PFDaA



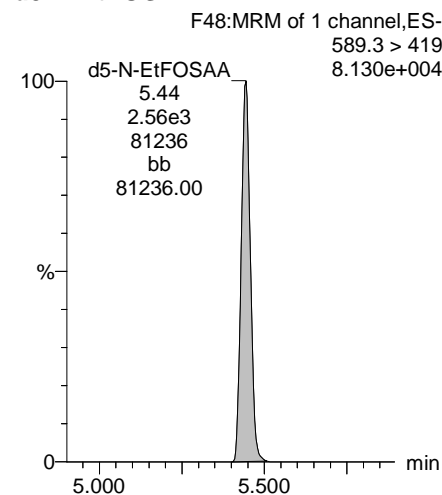
13C2-PFUdA



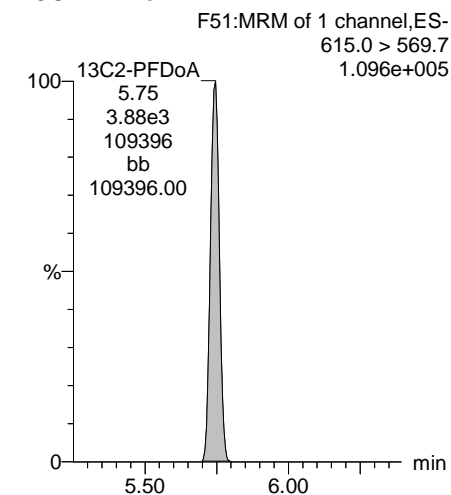
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



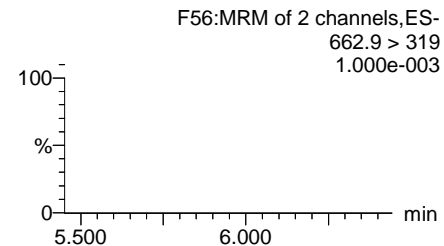
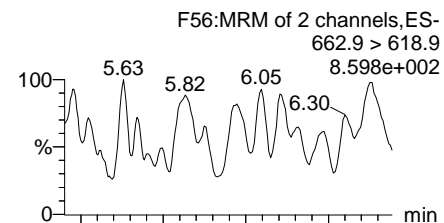
Dataset: U:\Q4.PRO\results\180115M2\180115M2-58.qld

Last Altered: Tuesday, January 16, 2018 14:09:28 Pacific Standard Time

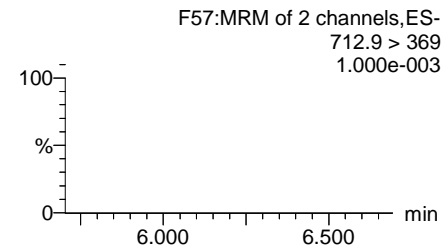
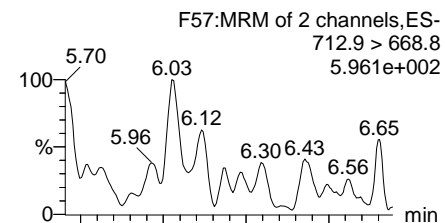
Printed: Tuesday, January 16, 2018 14:10:04 Pacific Standard Time

Name: 180115M2_58, Date: 16-Jan-2018, Time: 11:14:11, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

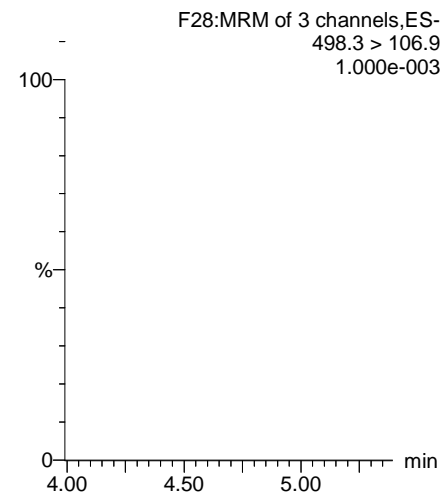
PFTrDA



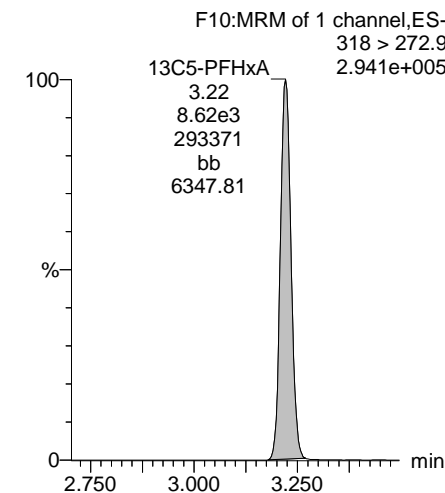
PFTeDA



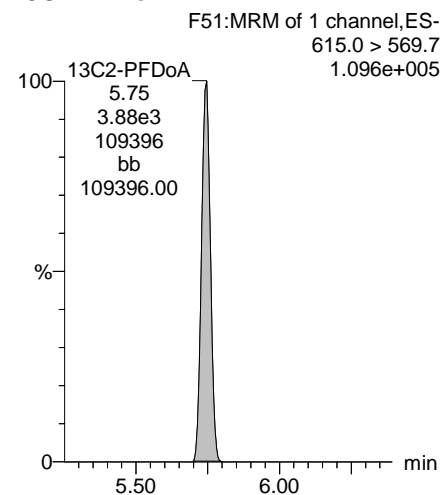
TCDA



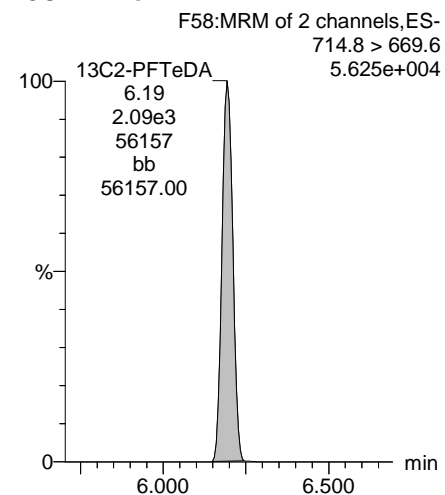
13C5-PFHxA



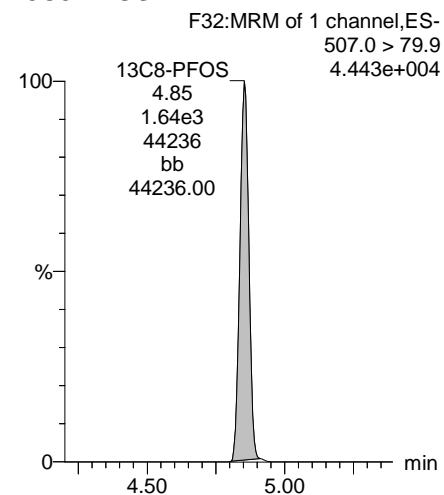
13C2-PFDoA



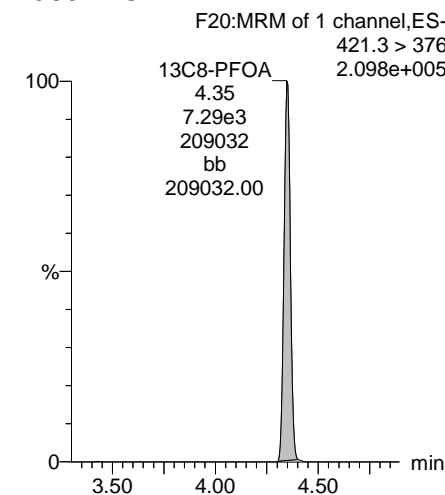
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-58.qld

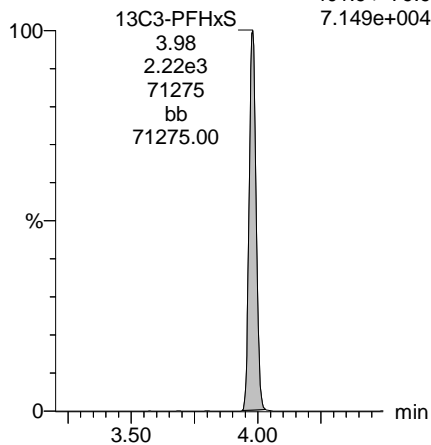
Last Altered: Tuesday, January 16, 2018 14:09:28 Pacific Standard Time

Printed: Tuesday, January 16, 2018 14:10:04 Pacific Standard Time

Name: 180115M2_58, Date: 16-Jan-2018, Time: 11:14:11, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

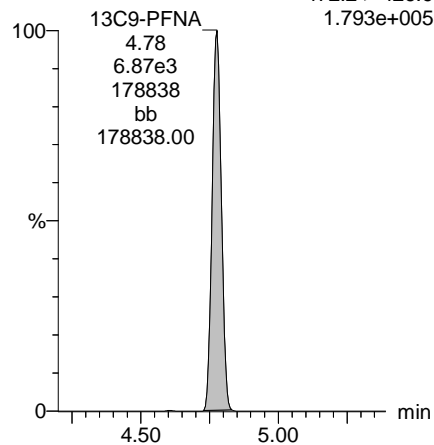
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.149e+004



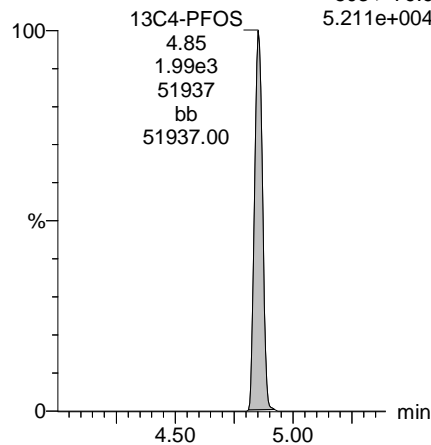
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
1.793e+005



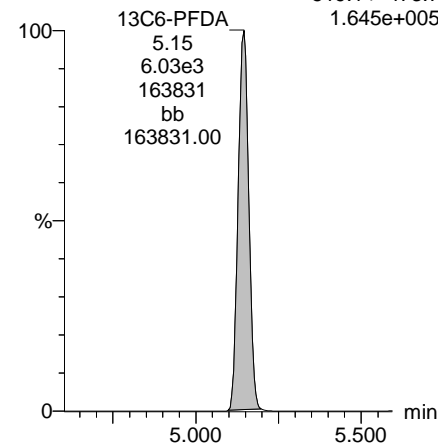
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
5.211e+004



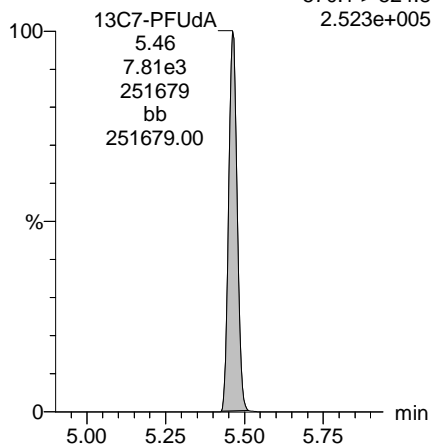
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.645e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.523e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-114.qld

Last Altered: Friday, January 19, 2018 11:33:08 Pacific Standard Time

Printed: Friday, January 19, 2018 11:36:07 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

	#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	3	PFBS	299.0 > 79.7		7.95e2	0.241		2.87				
2	4	PFHxA	313.2 > 268.9		1.94e3	0.241		3.36				
3	5	PFHpA	363.0 > 318.9		4.97e3	0.241		4.00				
4	6	L-PFHxS	398.9 > 79.6	2.70e0	7.17e2	0.241		3.94	3.93	0.0471	0.0172	
5	9	L-PFOA	413 > 368.7	3.63e2	7.00e3	0.241		4.34	4.30	0.649	1.0850	
6	12	PFNA	463.0 > 418.8	8.19e2	5.34e3	0.241		4.94	4.72	1.91	5.9421	
7	14	L-PFOS	499 > 79.9	1.56e1	1.52e3	0.241		4.79	4.70	0.128	0.6459	
8	16	PFDA	513 > 468.8		4.41e3	0.241		5.31				
9	18	N-MeFOSAA	570.1 > 419		2.50e3	0.241		5.45				
10	19	N-EtFOSAA	584.2 > 419		2.25e3	0.241		5.60				
11	20	PFUdA	563.0 > 518.9		5.26e3	0.241		5.62				
12	22	PFDoA	612.9 > 569.0		3.27e3	0.241		5.91				

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-114.qld

Last Altered: Friday, January 19, 2018 11:33:08 Pacific Standard Time

Printed: Friday, January 19, 2018 11:36:25 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

#	Name	Trace	Area	IS Area	Wt./Vol.	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	24	PFTrDA	662.9 > 618.9	3.27e3	0.241		6.15				
2	25	PFTeDA	712.9 > 668.8	2.18e3	0.241		6.35				
3	33	13C3-PFBS	302. > 98.8	7.95e2	0.241	0.095	2.87	2.67	1.09	47.7653	92.1
4	34	13C2-PFHxA	315 > 269.8	1.94e3	0.241	0.636	3.36	3.16	2.67	17.4043	83.9
5	35	13C4-PFHpA	367.2 > 321.8	4.97e3	0.241	0.621	4.00	3.78	6.85	45.7362	88.2
6	36	18O2-PFHxS	403.0 > 102.6	7.17e2	0.241	0.336	4.14	3.92	3.85	47.5845	91.8
7	37	13C2-6:2 FTS	429.1 > 408.9	1.45e3	0.241	0.192	4.46	4.24	2.26	48.7383	94.0
8	38	13C2-PFOA	414.9 > 369.7	7.00e3	0.241	1.001	4.50	4.29	10.9	45.1241	87.0
9	39	13C5-PFNA	468.2 > 422.9	5.34e3	0.241	0.811	4.94	4.72	7.05	36.0648	69.6
10	40	13C8-PFOSA	506.1 > 77.7	1.21e3	0.241	0.196	5.00	4.79	2.41	50.8016	98.0
11	41	13C8-PFOS	507.0 > 79.9	1.52e3	0.241	0.862	5.02	4.81	8.57	41.2558	79.6
12	42	13C2-PFDA	515.1 > 469.9	4.41e3	0.241	0.996	5.31	5.10	12.0	49.9959	96.4
13	43	13C2-8:2 FTS	529.1 > 508.7	6.77e2	0.241	0.103	5.28	5.07	0.932	37.5506	72.4
14	44	d3-N-MeFOSAA	573.3 > 419	2.50e3	0.241	0.340	5.45	5.25	4.97	60.6679	117.0
15	45	d5-N-EtFOSAA	589.3 > 419	2.25e3	0.241	0.377	5.60	5.40	4.48	49.2951	95.1
16	46	13C2-PFUdA	565 > 519.8	5.26e3	0.241	0.944	5.62	5.42	10.5	46.0777	88.9
17	47	13C2-PFDoA	615.0 > 569.7	3.27e3	0.241	0.726	5.91	5.70	6.52	37.2592	71.9
18	49	13C2-PFTeDA	714.8 > 669.6	2.18e3	0.241	0.371	6.35	6.16	4.34	48.4811	93.5
19	55	13C5-PFHxA	318 > 272.9	9.08e3	0.241	1.000	3.36	3.16	12.5	51.8414	100.0
20	56	13C3-PFHxS	401.9 > 79.9	2.32e3	0.241	1.000	4.14	3.92	12.5	51.8414	100.0
21	57	13C8-PFOA	421.3 > 376	8.03e3	0.241	1.000	4.50	4.29	12.5	51.8414	100.0
22	58	13C9-PFNA	472.2 > 426.9	9.48e3	0.241	1.000	4.94	4.72	12.5	51.8414	100.0
23	59	13C4-PFOS	503 > 79.9	2.22e3	0.241	1.000	5.02	4.80	12.5	51.8414	100.0
24	60	13C6-PFDA	519.1 > 473.7	4.60e3	0.241	1.000	5.31	5.10	12.5	51.8414	100.0
25	61	13C7-PFUdA	570.1 > 524.8	6.27e3	0.241	1.000	5.62	5.42	12.5	51.8414	100.0
26	62	Total PFHxS	398.9 > 79.6	2.70e0	0.241		4.14		0.0471	0.0172	
27	63	Total PFOA	413 > 368.7	3.63e2	0.241		4.51		0.649	1.0850	
28	64	Total PFOS	499 > 79.9	1.56e1	0.241		5.02		0.128	0.6459	
29	65	Total N-MeFOSAA	570.1 > 419	0.00e0	0.241		5.45		0.000		
30	66	Total N-EtFOSAA	584.2 > 419	0.00e0	0.241		5.61		0.000		

See orig. inj.

Dataset: U:\Q4.PRO\results\180115M2\180115M2-114.qld

Last Altered: Friday, January 19, 2018 11:33:08 Pacific Standard Time

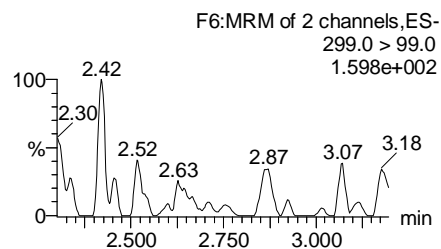
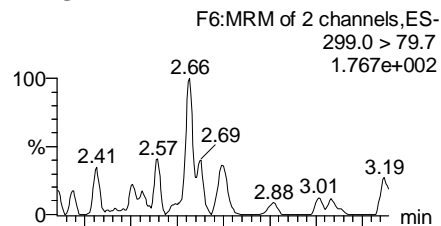
Printed: Friday, January 19, 2018 11:36:25 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

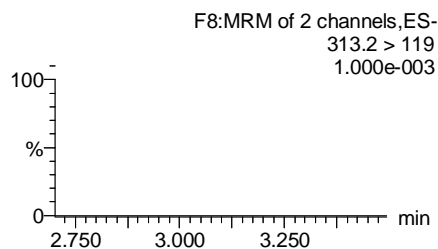
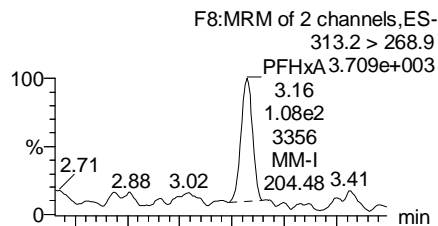
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Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ1181-20171213 0.24112, Description: SA-PZ1181-20171213

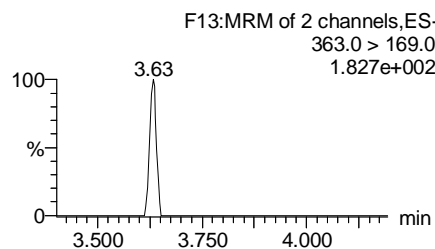
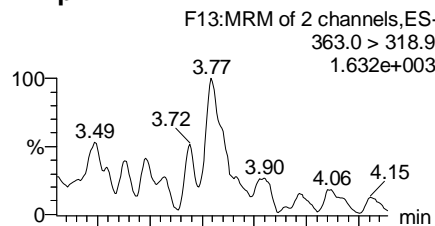
PFBS



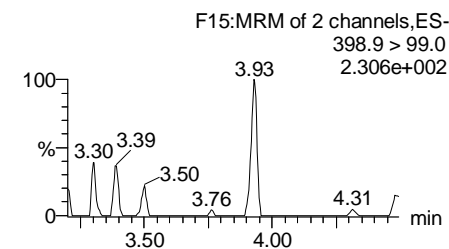
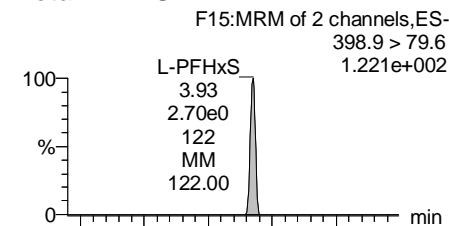
PFHxA



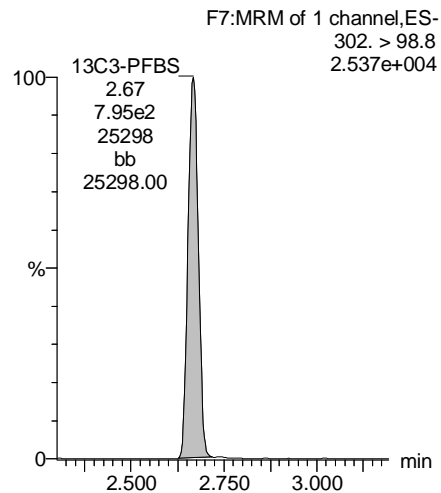
PFHpA



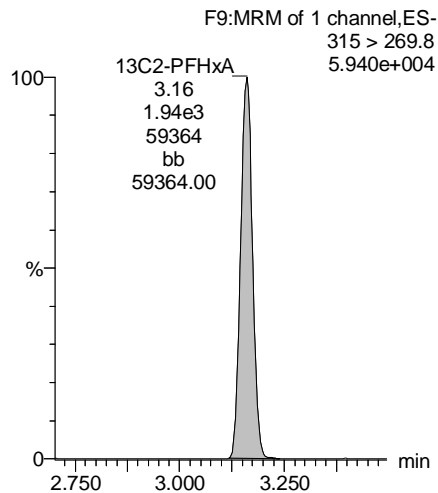
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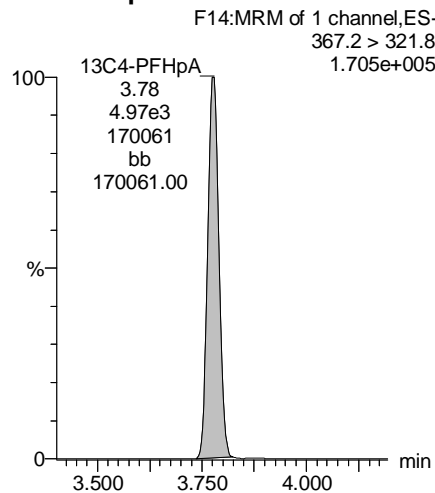
13C3-PFBS



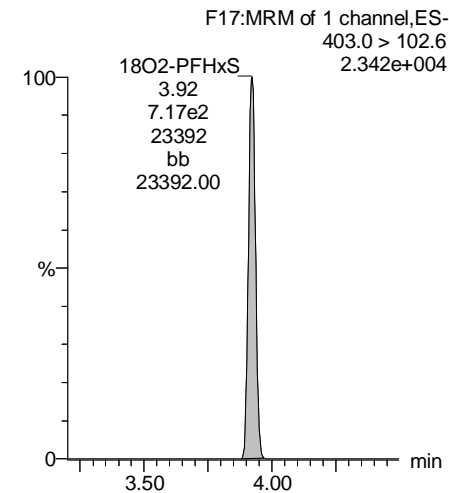
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



Dataset: U:\Q4.PRO\results\180115M2\180115M2-114.qld

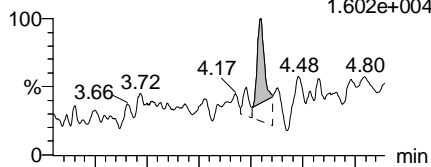
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Printed: Friday, January 19, 2018 11:36:25 Pacific Standard Time

Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

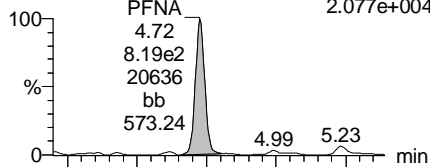
Total PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
1.602e+004



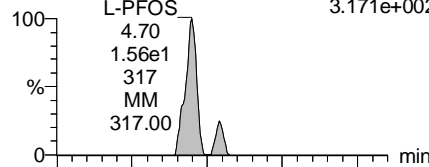
PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
2.077e+004



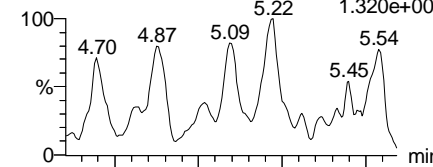
Total PFOS

F29:MRM of 2 channels,ES-
499 > 79.9
3.171e+002

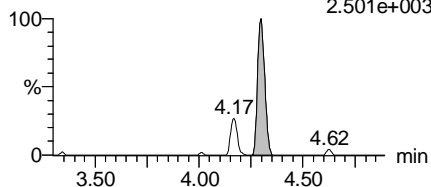


PFDA

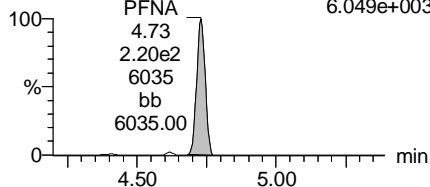
F34:MRM of 2 channels,ES-
513 > 468.8
1.320e+003



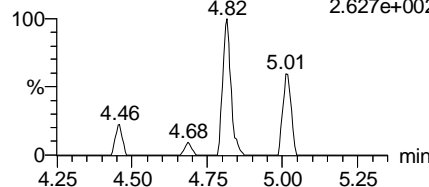
F18:MRM of 2 channels,ES-
413 > 169
2.501e+003



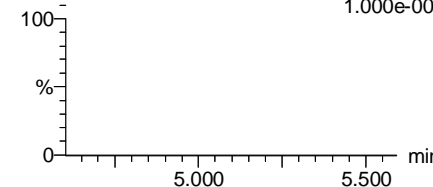
F24:MRM of 2 channels,ES-
463.0 > 219.0
6.049e+003



F29:MRM of 2 channels,ES-
499 > 99
2.627e+002

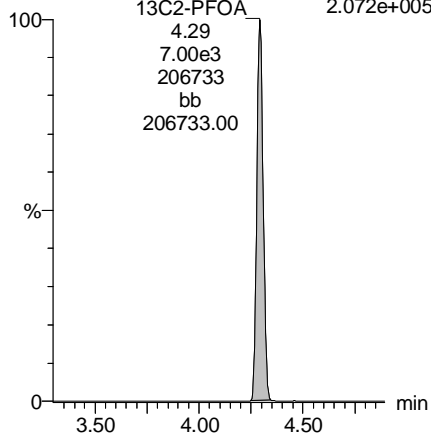


F34:MRM of 2 channels,ES-
513 > 219
1.000e-003



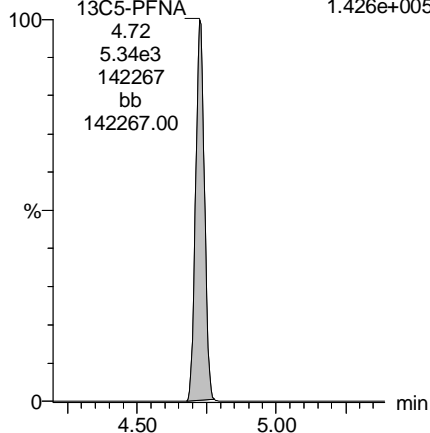
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
2.072e+005



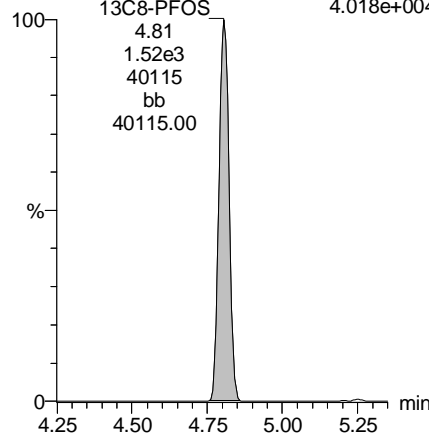
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
1.426e+005



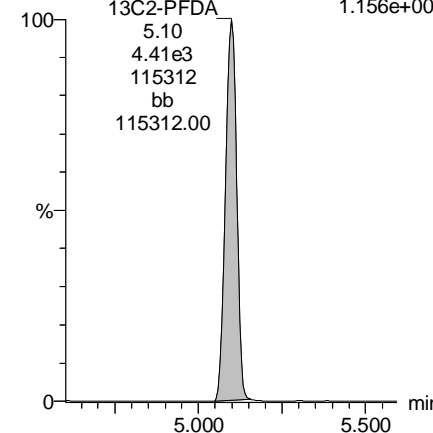
13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
4.018e+004



13C2-PFDA

F35:MRM of 1 channel,ES-
515.1 > 469.9
1.156e+005



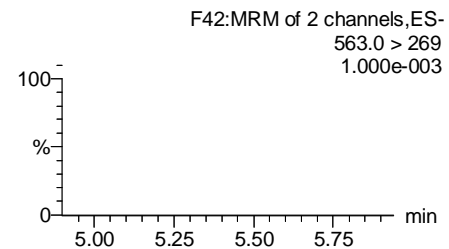
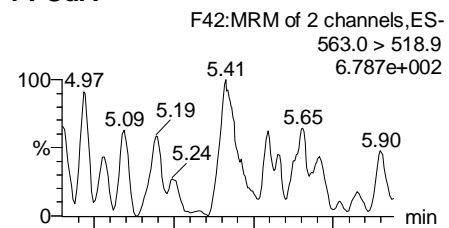
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Last Altered: Friday, January 19, 2018 11:33:08 Pacific Standard Time

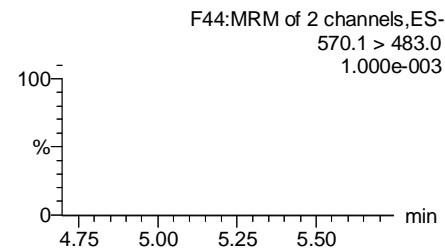
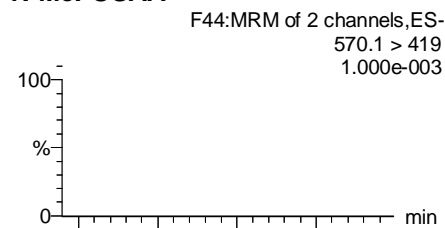
Printed: Friday, January 19, 2018 11:36:25 Pacific Standard Time

Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

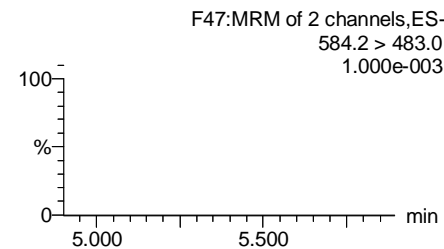
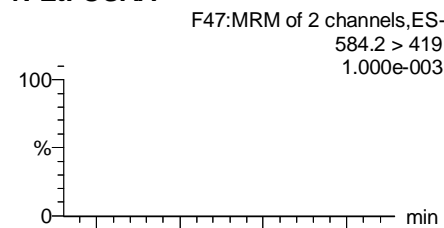
PFUdA



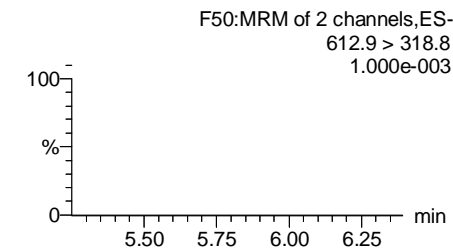
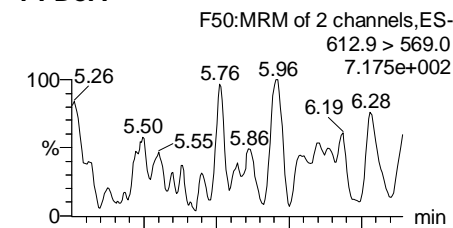
N-MeFOSAA



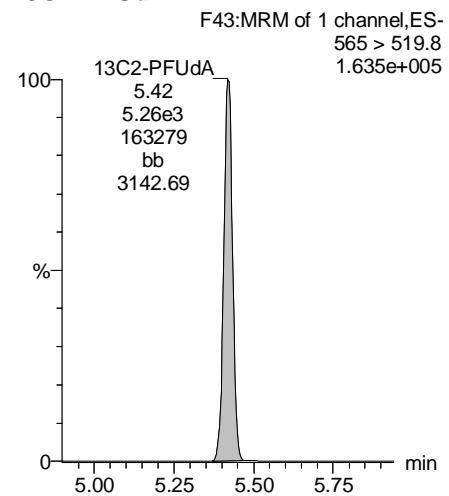
N-EtFOSAA



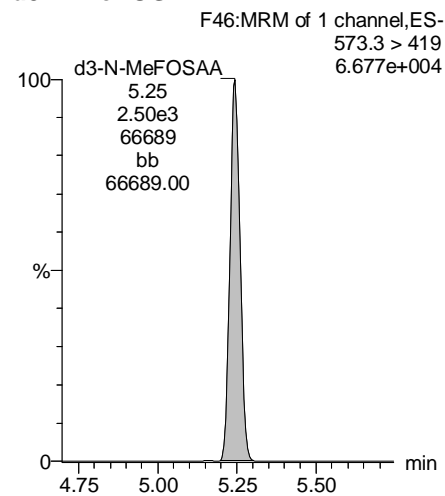
PFDaA



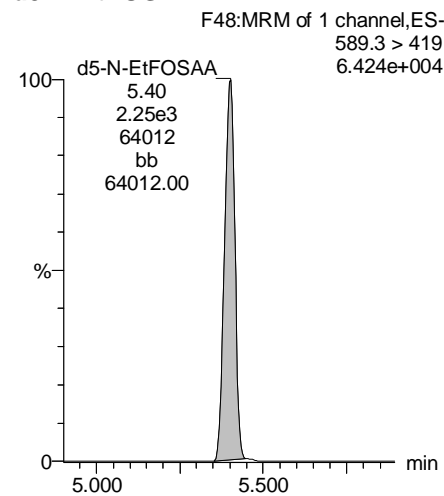
13C2-PFUdA



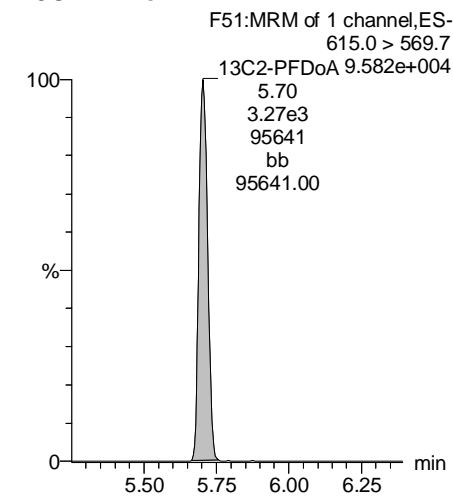
d3-N-MeFOSAA



d5-N-EtFOSAA



13C2-PFDaA



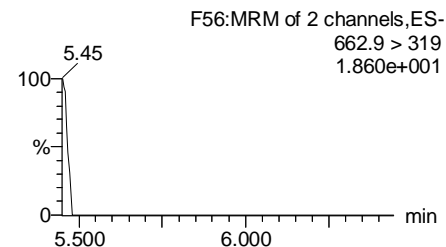
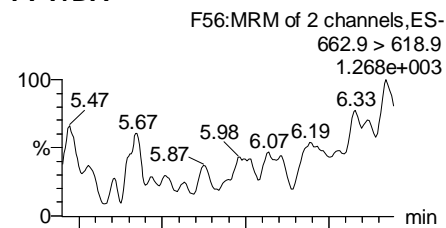
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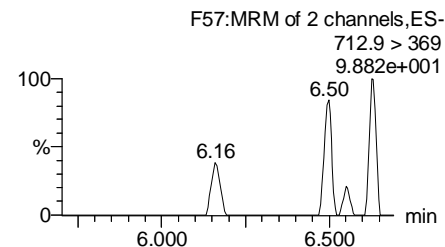
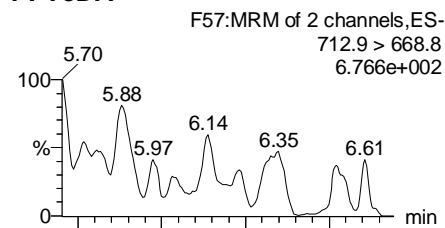
Printed: Friday, January 19, 2018 11:36:25 Pacific Standard Time

Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

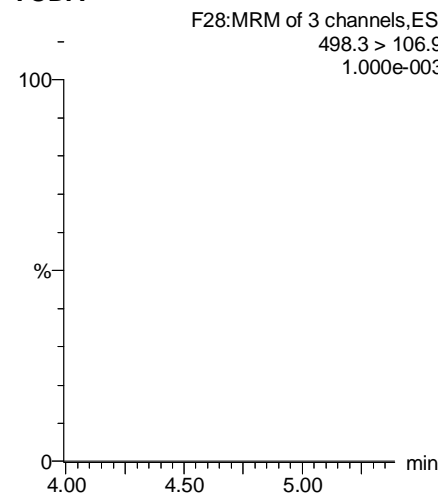
PFTrDA



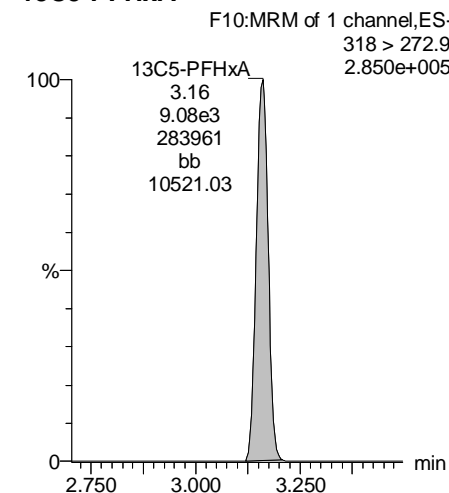
PFTeDA



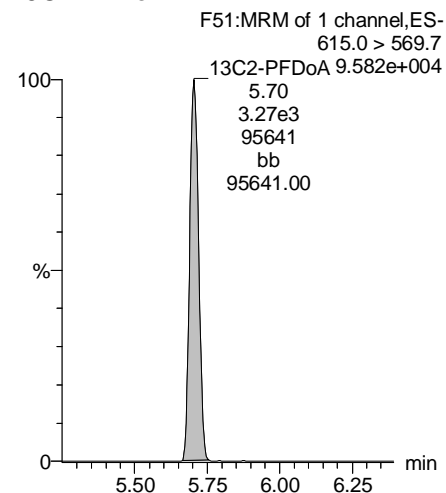
TCDA



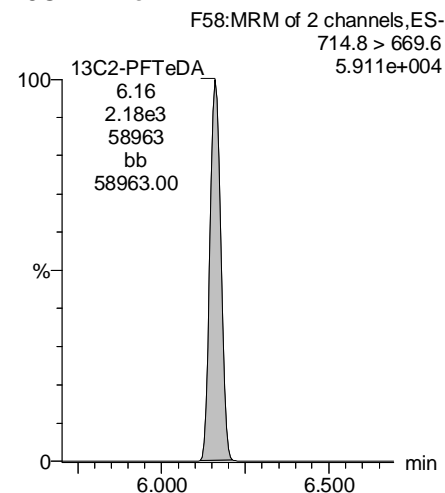
13C5-PFHxA



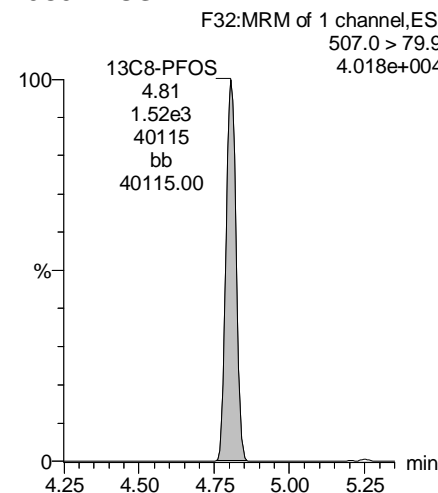
13C2-PFDoA



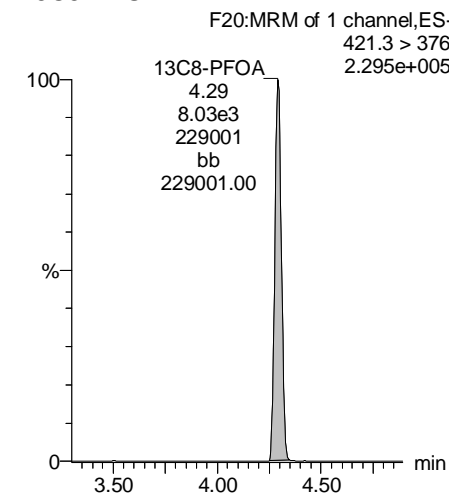
13C2-PFTeDA



13C8-PFOS



13C8-PFOA



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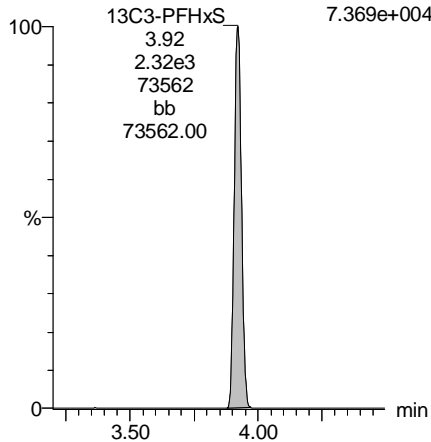
Last Altered: Friday, January 19, 2018 11:33:08 Pacific Standard Time

Printed: Friday, January 19, 2018 11:36:25 Pacific Standard Time

Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

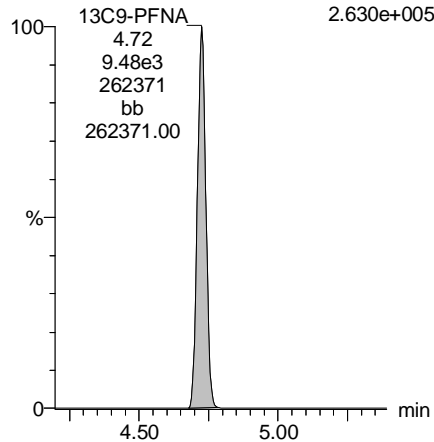
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.369e+004



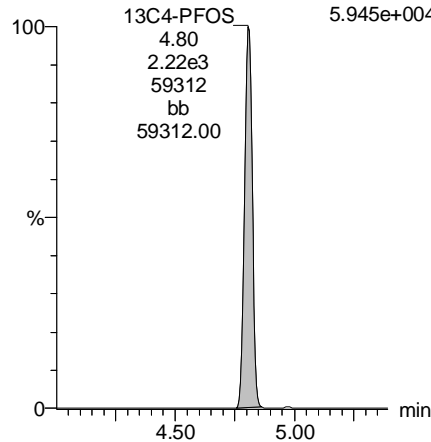
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
2.630e+005



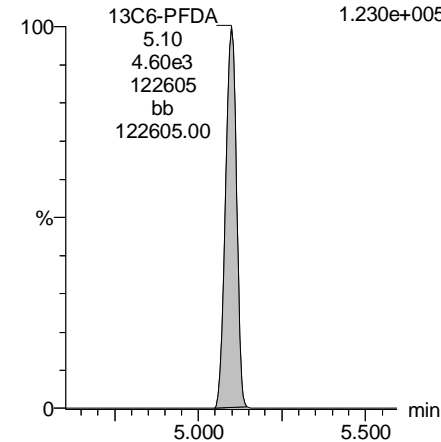
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
5.945e+004



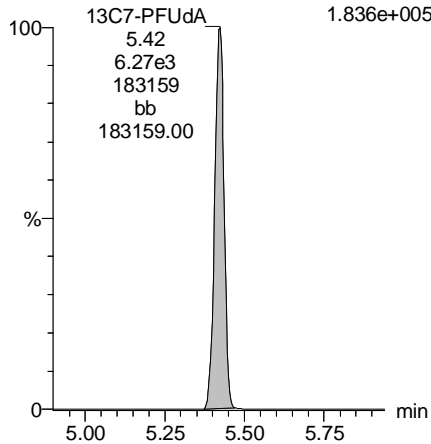
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.230e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
1.836e+005



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

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

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Method: U:\Q4.PRO\MethDB\PFAS_RS-1-14-18.mdb 17 Jan 2018 16:33:12
Calibration: 17 Jan 2018 16:54:20

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

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-6 PFC CS3 17L2611	1.47e4	100.0	NO
2	2 13C5-PFHxA	ST180115M2-6 PFC CS3 17L2611	1.62e4	100.0	NO
3	3 13C3-PFHxS	ST180115M2-6 PFC CS3 17L2611	3.99e3	100.0	NO
4	4 13C8-PFOA	ST180115M2-6 PFC CS3 17L2611	1.55e4	100.0	NO
5	5 13C9-PFNA	ST180115M2-6 PFC CS3 17L2611	1.67e4	100.0	NO
6	6 13C4-PFOS	ST180115M2-6 PFC CS3 17L2611	3.95e3	100.0	NO
7	7 13C6-PFDA	ST180115M2-6 PFC CS3 17L2611	1.06e4	100.0	NO
8	8 13C7-PFUDa	ST180115M2-6 PFC CS3 17L2611	1.44e4	100.0	NO

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

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-7 PFC CS4 17L1208	1.15e4	78.0	NO
2	2 13C5-PFHxA	ST180115M2-7 PFC CS4 17L1208	1.18e4	73.1	NO
3	3 13C3-PFHxS	ST180115M2-7 PFC CS4 17L1208	2.61e3	65.4	NO
4	4 13C8-PFOA	ST180115M2-7 PFC CS4 17L1208	1.16e4	74.7	NO
5	5 13C9-PFNA	ST180115M2-7 PFC CS4 17L1208	1.16e4	69.3	NO
6	6 13C4-PFOS	ST180115M2-7 PFC CS4 17L1208	3.37e3	85.2	NO
7	7 13C6-PFDA	ST180115M2-7 PFC CS4 17L1208	9.39e3	88.8	NO
8	8 13C7-PFUDa	ST180115M2-7 PFC CS4 17L1208	1.01e4	69.8	NO

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

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-8 PFC CS5 17L2613	1.17e4	79.4	NO
2	2 13C5-PFHxA	ST180115M2-8 PFC CS5 17L2613	1.35e4	83.6	NO
3	3 13C3-PFHxS	ST180115M2-8 PFC CS5 17L2613	2.52e3	63.2	NO
4	4 13C8-PFOA	ST180115M2-8 PFC CS5 17L2613	1.20e4	77.4	NO
5	5 13C9-PFNA	ST180115M2-8 PFC CS5 17L2613	1.23e4	73.7	NO
6	6 13C4-PFOS	ST180115M2-8 PFC CS5 17L2613	2.59e3	65.5	NO
7	7 13C6-PFDA	ST180115M2-8 PFC CS5 17L2613	9.28e3	87.8	NO
8	8 13C7-PFUDa	ST180115M2-8 PFC CS5 17L2613	1.44e4	99.5	NO

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

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

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

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ICV180115M2-1 PFC ICV 17L1201	4.78e4	325.4	YES
2	2 13C5-PFHxA	ICV180115M2-1 PFC ICV 17L1201	5.13e4	317.8	YES
3	3 13C3-PFHxS	ICV180115M2-1 PFC ICV 17L1201	1.25e4	313.9	YES
4	4 13C8-PFOA	ICV180115M2-1 PFC ICV 17L1201	4.79e4	309.6	YES
5	5 13C9-PFNA	ICV180115M2-1 PFC ICV 17L1201	4.38e4	262.6	YES
6	6 13C4-PFOS	ICV180115M2-1 PFC ICV 17L1201	1.14e4	289.7	YES
7	7 13C6-PFDA	ICV180115M2-1 PFC ICV 17L1201	3.72e4	351.5	YES
8	8 13C7-PFUdA	ICV180115M2-1 PFC ICV 17L1201	1.79e4	124.3	NO

Name: 180115M2_11, Date: 16-Jan-2018, Time: 02:08:58, ID: IPA, Description: IPA

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

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701851-03 FT-PZ-455S-20171202 0.2...	8.60e3	58.5	NO
2	2 13C5-PFHxA	1701851-03 FT-PZ-455S-20171202 0.2...	1.04e4	64.2	NO
3	3 13C3-PFHxS	1701851-03 FT-PZ-455S-20171202 0.2...	2.42e3	60.7	NO
4	4 13C8-PFOA	1701851-03 FT-PZ-455S-20171202 0.2...	8.79e3	56.8	NO
5	5 13C9-PFNA	1701851-03 FT-PZ-455S-20171202 0.2...	1.07e4	64.3	NO
6	6 13C4-PFOS	1701851-03 FT-PZ-455S-20171202 0.2...	2.57e3	65.0	NO
7	7 13C6-PFDA	1701851-03 FT-PZ-455S-20171202 0.2...	7.87e3	74.5	NO
8	8 13C7-PFUdA	1701851-03 FT-PZ-455S-20171202 0.2...	9.26e3	64.2	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701851-04 FT-PZ-455I-20171202 0.25...	8.34e3	56.8	NO
2	2 13C5-PFHxA	1701851-04 FT-PZ-455I-20171202 0.25...	1.01e4	62.6	NO
3	3 13C3-PFHxS	1701851-04 FT-PZ-455I-20171202 0.25...	2.64e3	66.2	NO
4	4 13C8-PFOA	1701851-04 FT-PZ-455I-20171202 0.25...	8.86e3	57.3	NO
5	5 13C9-PFNA	1701851-04 FT-PZ-455I-20171202 0.25...	9.84e3	58.9	NO
6	6 13C4-PFOS	1701851-04 FT-PZ-455I-20171202 0.25...	3.11e3	78.8	NO
7	7 13C6-PFDA	1701851-04 FT-PZ-455I-20171202 0.25...	7.12e3	67.4	NO
8	8 13C7-PFUdA	1701851-04 FT-PZ-455I-20171202 0.25...	9.78e3	67.8	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-05 FT-PZ-453S-20171202 0.2...	8.35e3	56.8	NO
2	2	13C5-PFHxA	1701851-05 FT-PZ-453S-20171202 0.2...	9.66e3	59.8	NO
3	3	13C3-PFHxS	1701851-05 FT-PZ-453S-20171202 0.2...	2.35e3	58.8	NO
4	4	13C8-PFOA	1701851-05 FT-PZ-453S-20171202 0.2...	8.60e3	55.6	NO
5	5	13C9-PFNA	1701851-05 FT-PZ-453S-20171202 0.2...	8.81e3	52.8	NO
6	6	13C4-PFOS	1701851-05 FT-PZ-453S-20171202 0.2...	2.23e3	56.4	NO
7	7	13C6-PFDA	1701851-05 FT-PZ-453S-20171202 0.2...	7.23e3	68.4	NO
8	8	13C7-PFUDa	1701851-05 FT-PZ-453S-20171202 0.2...	7.83e3	54.3	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-06 FT-PZ-453S-FRB-2017120...	9.38e3	63.8	NO
2	2	13C5-PFHxA	1701851-06 FT-PZ-453S-FRB-2017120...	1.12e4	69.5	NO
3	3	13C3-PFHxS	1701851-06 FT-PZ-453S-FRB-2017120...	2.51e3	63.0	NO
4	4	13C8-PFOA	1701851-06 FT-PZ-453S-FRB-2017120...	1.03e4	66.9	NO
5	5	13C9-PFNA	1701851-06 FT-PZ-453S-FRB-2017120...	1.09e4	65.5	NO
6	6	13C4-PFOS	1701851-06 FT-PZ-453S-FRB-2017120...	2.34e3	59.3	NO
7	7	13C6-PFDA	1701851-06 FT-PZ-453S-FRB-2017120...	9.37e3	88.6	NO
8	8	13C7-PFUDa	1701851-06 FT-PZ-453S-FRB-2017120...	1.17e4	81.1	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-07 FT-PZ-456I-FRB-2017120...	7.89e3	53.7	NO
2	2	13C5-PFHxA	1701851-07 FT-PZ-456I-FRB-2017120...	8.86e3	54.8	NO
3	3	13C3-PFHxS	1701851-07 FT-PZ-456I-FRB-2017120...	2.28e3	57.1	NO
4	4	13C8-PFOA	1701851-07 FT-PZ-456I-FRB-2017120...	9.40e3	60.8	NO
5	5	13C9-PFNA	1701851-07 FT-PZ-456I-FRB-2017120...	7.59e3	45.5	YES
6	6	13C4-PFOS	1701851-07 FT-PZ-456I-FRB-2017120...	2.20e3	55.6	NO
7	7	13C6-PFDA	1701851-07 FT-PZ-456I-FRB-2017120...	7.25e3	68.6	NO
8	8	13C7-PFUDa	1701851-07 FT-PZ-456I-FRB-2017120...	9.02e3	62.5	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701851-08 FT-PZ-456I-20171204 0.26...	9.60e3	65.3	NO
2	2	13C5-PFHxA	1701851-08 FT-PZ-456I-20171204 0.26...	1.06e4	65.6	NO
3	3	13C3-PFHxS	1701851-08 FT-PZ-456I-20171204 0.26...	2.61e3	65.3	NO
4	4	13C8-PFOA	1701851-08 FT-PZ-456I-20171204 0.26...	9.59e3	62.0	NO
5	5	13C9-PFNA	1701851-08 FT-PZ-456I-20171204 0.26...	1.08e4	64.6	NO
6	6	13C4-PFOS	1701851-08 FT-PZ-456I-20171204 0.26...	2.56e3	64.9	NO
7	7	13C6-PFDA	1701851-08 FT-PZ-456I-20171204 0.26...	6.50e3	61.5	NO
8	8	13C7-PFUDa	1701851-08 FT-PZ-456I-20171204 0.26...	9.51e3	65.9	NO

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

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701851-09 FT-PZ-456S-20171204 0.2...	8.84e3	60.1	NO
2	2 13C5-PFHxA	1701851-09 FT-PZ-456S-20171204 0.2...	9.17e3	56.8	NO
3	3 13C3-PFHxS	1701851-09 FT-PZ-456S-20171204 0.2...	2.47e3	61.8	NO
4	4 13C8-PFOA	1701851-09 FT-PZ-456S-20171204 0.2...	9.26e3	59.9	NO
5	5 13C9-PFNA	1701851-09 FT-PZ-456S-20171204 0.2...	8.88e3	53.2	NO
6	6 13C4-PFOS	1701851-09 FT-PZ-456S-20171204 0.2...	2.17e3	54.8	NO
7	7 13C6-PFDA	1701851-09 FT-PZ-456S-20171204 0.2...	7.57e3	71.6	NO
8	8 13C7-PFUdA	1701851-09 FT-PZ-456S-20171204 0.2...	1.04e4	72.0	NO

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

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	6.98e3	47.5	YES
2	2 13C5-PFHxA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	7.85e3	48.6	YES
3	3 13C3-PFHxS	1701944-01 GW-PT-CHIN-254.5-260.5 ...	2.26e3	56.6	NO
4	4 13C8-PFOA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	7.24e3	46.8	YES
5	5 13C9-PFNA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	7.45e3	44.6	YES
6	6 13C4-PFOS	1701944-01 GW-PT-CHIN-254.5-260.5 ...	2.34e3	59.2	NO
7	7 13C6-PFDA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	6.01e3	56.9	NO
8	8 13C7-PFUdA	1701944-01 GW-PT-CHIN-254.5-260.5 ...	8.17e3	56.7	NO

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

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-02 GW-PT-CHIN-71-77 0.11916	7.34e3	49.9	NO
2	2 13C5-PFHxA	1701944-02 GW-PT-CHIN-71-77 0.11916	9.19e3	56.9	NO
3	3 13C3-PFHxS	1701944-02 GW-PT-CHIN-71-77 0.11916	2.43e3	60.9	NO
4	4 13C8-PFOA	1701944-02 GW-PT-CHIN-71-77 0.11916	8.91e3	57.6	NO
5	5 13C9-PFNA	1701944-02 GW-PT-CHIN-71-77 0.11916	9.21e3	55.2	NO
6	6 13C4-PFOS	1701944-02 GW-PT-CHIN-71-77 0.11916	2.21e3	56.0	NO
7	7 13C6-PFDA	1701944-02 GW-PT-CHIN-71-77 0.11916	7.93e3	75.0	NO
8	8 13C7-PFUdA	1701944-02 GW-PT-CHIN-71-77 0.11916	8.31e3	57.6	NO

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

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-03 GW-PT-CHIN-178-184 0.1...	7.24e3	49.3	YES
2	2 13C5-PFHxA	1701944-03 GW-PT-CHIN-178-184 0.1...	8.77e3	54.3	NO
3	3 13C3-PFHxS	1701944-03 GW-PT-CHIN-178-184 0.1...	2.32e3	58.2	NO
4	4 13C8-PFOA	1701944-03 GW-PT-CHIN-178-184 0.1...	7.74e3	50.1	NO
5	5 13C9-PFNA	1701944-03 GW-PT-CHIN-178-184 0.1...	8.14e3	48.8	YES
6	6 13C4-PFOS	1701944-03 GW-PT-CHIN-178-184 0.1...	2.31e3	58.5	NO
7	7 13C6-PFDA	1701944-03 GW-PT-CHIN-178-184 0.1...	6.14e3	58.1	NO
8	8 13C7-PFUdA	1701944-03 GW-PT-CHIN-178-184 0.1...	7.98e3	55.3	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-04 GW-PT-CHIN-108-114 0.1...	7.61e3	51.7	NO
2	2	13C5-PFHxA	1701944-04 GW-PT-CHIN-108-114 0.1...	9.93e3	61.5	NO
3	3	13C3-PFHxS	1701944-04 GW-PT-CHIN-108-114 0.1...	2.66e3	66.6	NO
4	4	13C8-PFOA	1701944-04 GW-PT-CHIN-108-114 0.1...	7.85e3	50.7	NO
5	5	13C9-PFNA	1701944-04 GW-PT-CHIN-108-114 0.1...	8.66e3	51.9	NO
6	6	13C4-PFOS	1701944-04 GW-PT-CHIN-108-114 0.1...	2.39e3	60.4	NO
7	7	13C6-PFDA	1701944-04 GW-PT-CHIN-108-114 0.1...	5.87e3	55.5	NO
8	8	13C7-PFUdA	1701944-04 GW-PT-CHIN-108-114 0.1...	9.31e3	64.5	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-05 GW-PT-CHIN-57-63 0.11948	6.76e3	46.0	YES
2	2	13C5-PFHxA	1701944-05 GW-PT-CHIN-57-63 0.11948	8.03e3	49.7	YES
3	3	13C3-PFHxS	1701944-05 GW-PT-CHIN-57-63 0.11948	2.16e3	54.1	NO
4	4	13C8-PFOA	1701944-05 GW-PT-CHIN-57-63 0.11948	8.59e3	55.5	NO
5	5	13C9-PFNA	1701944-05 GW-PT-CHIN-57-63 0.11948	6.49e3	38.9	YES
6	6	13C4-PFOS	1701944-05 GW-PT-CHIN-57-63 0.11948	2.00e3	50.8	NO
7	7	13C6-PFDA	1701944-05 GW-PT-CHIN-57-63 0.11948	6.27e3	59.3	NO
8	8	13C7-PFUdA	1701944-05 GW-PT-CHIN-57-63 0.11948	8.23e3	57.0	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701944-06 FB-PT-Diwater 0.11902	8.06e3	54.9	NO
2	2	13C5-PFHxA	1701944-06 FB-PT-Diwater 0.11902	9.54e3	59.0	NO
3	3	13C3-PFHxS	1701944-06 FB-PT-Diwater 0.11902	2.38e3	59.7	NO
4	4	13C8-PFOA	1701944-06 FB-PT-Diwater 0.11902	8.10e3	52.3	NO
5	5	13C9-PFNA	1701944-06 FB-PT-Diwater 0.11902	8.91e3	53.4	NO
6	6	13C4-PFOS	1701944-06 FB-PT-Diwater 0.11902	2.22e3	56.1	NO
7	7	13C6-PFDA	1701944-06 FB-PT-Diwater 0.11902	7.41e3	70.1	NO
8	8	13C7-PFUdA	1701944-06 FB-PT-Diwater 0.11902	9.42e3	65.3	NO

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

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

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-9 PFC CS3 17L2611	1.55e4	105.5	NO
2	2 13C5-PFHxA	ST180115M2-9 PFC CS3 17L2611	1.78e4	109.9	NO
3	3 13C3-PFHxS	ST180115M2-9 PFC CS3 17L2611	4.51e3	113.1	NO
4	4 13C8-PFOA	ST180115M2-9 PFC CS3 17L2611	1.33e4	85.9	NO
5	5 13C9-PFNA	ST180115M2-9 PFC CS3 17L2611	1.40e4	84.1	NO
6	6 13C4-PFOS	ST180115M2-9 PFC CS3 17L2611	3.96e3	100.2	NO
7	7 13C6-PFDA	ST180115M2-9 PFC CS3 17L2611	1.08e4	102.5	NO
8	8 13C7-PFUdA	ST180115M2-9 PFC CS3 17L2611	1.63e4	113.2	NO

Name: 180115M2_27, Date: 16-Jan-2018, Time: 05:12:08, ID: IPA, Description: IPA

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

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-07 GW-PT-CHIN-254.5-260.5-...	6.74e3	45.8	YES
2	2 13C5-PFHxA	1701944-07 GW-PT-CHIN-254.5-260.5-...	7.67e3	47.5	YES
3	3 13C3-PFHxS	1701944-07 GW-PT-CHIN-254.5-260.5-...	2.17e3	54.4	NO
4	4 13C8-PFOA	1701944-07 GW-PT-CHIN-254.5-260.5-...	6.41e3	41.4	YES
5	5 13C9-PFNA	1701944-07 GW-PT-CHIN-254.5-260.5-...	6.97e3	41.8	YES
6	6 13C4-PFOS	1701944-07 GW-PT-CHIN-254.5-260.5-...	2.11e3	53.4	NO
7	7 13C6-PFDA	1701944-07 GW-PT-CHIN-254.5-260.5-...	5.30e3	50.2	NO
8	8 13C7-PFUdA	1701944-07 GW-PT-CHIN-254.5-260.5-...	8.44e3	58.5	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-08 GW-PT-CHIN-116-122 0.1...	7.70e3	52.4	NO
2	2 13C5-PFHxA	1701944-08 GW-PT-CHIN-116-122 0.1...	7.98e3	49.4	YES
3	3 13C3-PFHxS	1701944-08 GW-PT-CHIN-116-122 0.1...	2.51e3	62.8	NO
4	4 13C8-PFOA	1701944-08 GW-PT-CHIN-116-122 0.1...	8.37e3	54.1	NO
5	5 13C9-PFNA	1701944-08 GW-PT-CHIN-116-122 0.1...	7.95e3	47.6	YES
6	6 13C4-PFOS	1701944-08 GW-PT-CHIN-116-122 0.1...	2.34e3	59.3	NO
7	7 13C6-PFDA	1701944-08 GW-PT-CHIN-116-122 0.1...	5.90e3	55.8	NO
8	8 13C7-PFUdA	1701944-08 GW-PT-CHIN-116-122 0.1...	9.04e3	62.6	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-09 EB-PT-Waterlevel 0.10468	8.59e3	58.4	NO
2	2 13C5-PFHxA	1701944-09 EB-PT-Waterlevel 0.10468	9.71e3	60.1	NO
3	3 13C3-PFHxS	1701944-09 EB-PT-Waterlevel 0.10468	2.43e3	61.0	NO
4	4 13C8-PFOA	1701944-09 EB-PT-Waterlevel 0.10468	8.49e3	54.9	NO
5	5 13C9-PFNA	1701944-09 EB-PT-Waterlevel 0.10468	8.11e3	48.6	YES
6	6 13C4-PFOS	1701944-09 EB-PT-Waterlevel 0.10468	2.55e3	64.5	NO
7	7 13C6-PFDA	1701944-09 EB-PT-Waterlevel 0.10468	6.69e3	63.3	NO
8	8 13C7-PFUdA	1701944-09 EB-PT-Waterlevel 0.10468	9.80e3	67.9	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-10 EB-PT-grundfos 0.11733	7.26e3	49.4	YES
2	2 13C5-PFHxA	1701944-10 EB-PT-grundfos 0.11733	8.99e3	55.6	NO
3	3 13C3-PFHxS	1701944-10 EB-PT-grundfos 0.11733	2.33e3	58.3	NO
4	4 13C8-PFOA	1701944-10 EB-PT-grundfos 0.11733	7.78e3	50.3	NO
5	5 13C9-PFNA	1701944-10 EB-PT-grundfos 0.11733	8.60e3	51.5	NO
6	6 13C4-PFOS	1701944-10 EB-PT-grundfos 0.11733	1.99e3	50.4	NO
7	7 13C6-PFDA	1701944-10 EB-PT-grundfos 0.11733	6.96e3	65.8	NO
8	8 13C7-PFUdA	1701944-10 EB-PT-grundfos 0.11733	8.31e3	57.6	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-11 GW-PT-CHIN-170-176 0.1...	7.24e3	49.3	YES
2	2 13C5-PFHxA	1701944-11 GW-PT-CHIN-170-176 0.1...	8.31e3	51.4	NO
3	3 13C3-PFHxS	1701944-11 GW-PT-CHIN-170-176 0.1...	2.21e3	55.5	NO
4	4 13C8-PFOA	1701944-11 GW-PT-CHIN-170-176 0.1...	8.17e3	52.8	NO
5	5 13C9-PFNA	1701944-11 GW-PT-CHIN-170-176 0.1...	7.85e3	47.0	YES
6	6 13C4-PFOS	1701944-11 GW-PT-CHIN-170-176 0.1...	2.17e3	54.9	NO
7	7 13C6-PFDA	1701944-11 GW-PT-CHIN-170-176 0.1...	6.49e3	61.4	NO
8	8 13C7-PFUdA	1701944-11 GW-PT-CHIN-170-176 0.1...	8.57e3	59.4	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	7.19e3	48.9	YES
2	2 13C5-PFHxA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	8.78e3	54.3	NO
3	3 13C3-PFHxS	1701944-12 GW-PT-CHIN-271.5-277.5 ...	2.01e3	50.4	NO
4	4 13C8-PFOA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	7.80e3	50.4	NO
5	5 13C9-PFNA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	6.71e3	40.2	YES
6	6 13C4-PFOS	1701944-12 GW-PT-CHIN-271.5-277.5 ...	2.40e3	60.7	NO
7	7 13C6-PFDA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	5.62e3	53.2	NO
8	8 13C7-PFUdA	1701944-12 GW-PT-CHIN-271.5-277.5 ...	9.57e3	66.3	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701944-13 EB-PT-Packers 0.11813	7.34e3	49.9	NO
2	2 13C5-PFHxA	1701944-13 EB-PT-Packers 0.11813	8.26e3	51.1	NO
3	3 13C3-PFHxS	1701944-13 EB-PT-Packers 0.11813	2.05e3	51.5	NO
4	4 13C8-PFOA	1701944-13 EB-PT-Packers 0.11813	7.73e3	50.0	NO
5	5 13C9-PFNA	1701944-13 EB-PT-Packers 0.11813	7.71e3	46.2	YES
6	6 13C4-PFOS	1701944-13 EB-PT-Packers 0.11813	2.31e3	58.5	NO
7	7 13C6-PFDA	1701944-13 EB-PT-Packers 0.11813	5.96e3	56.4	NO
8	8 13C7-PFUdA	1701944-13 EB-PT-Packers 0.11813	8.92e3	61.8	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0120-BS1 OPR 0.25	7.98e3	54.3	NO
2	2 13C5-PFHxA	B7L0120-BS1 OPR 0.25	9.24e3	57.2	NO
3	3 13C3-PFHxS	B7L0120-BS1 OPR 0.25	2.10e3	52.5	NO
4	4 13C8-PFOA	B7L0120-BS1 OPR 0.25	7.88e3	50.9	NO
5	5 13C9-PFNA	B7L0120-BS1 OPR 0.25	9.11e3	54.6	NO
6	6 13C4-PFOS	B7L0120-BS1 OPR 0.25	2.47e3	62.6	NO
7	7 13C6-PFDA	B7L0120-BS1 OPR 0.25	5.96e3	56.3	NO
8	8 13C7-PFUdA	B7L0120-BS1 OPR 0.25	8.95e3	62.0	NO

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

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0120-BSD1 LCSD 0.25	8.49e3	57.7	NO
2	2 13C5-PFHxA	B7L0120-BSD1 LCSD 0.25	9.21e3	57.0	NO
3	3 13C3-PFHxS	B7L0120-BSD1 LCSD 0.25	2.35e3	58.8	NO
4	4 13C8-PFOA	B7L0120-BSD1 LCSD 0.25	7.90e3	51.1	NO
5	5 13C9-PFNA	B7L0120-BSD1 LCSD 0.25	1.10e4	65.8	NO
6	6 13C4-PFOS	B7L0120-BSD1 LCSD 0.25	2.66e3	67.2	NO
7	7 13C6-PFDA	B7L0120-BSD1 LCSD 0.25	6.14e3	58.1	NO
8	8 13C7-PFUdA	B7L0120-BSD1 LCSD 0.25	9.78e3	67.8	NO

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

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

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7L0120-BLK1 Method Blank 0.25	6.75e3	45.9	YES
2	2	13C5-PFHxA	B7L0120-BLK1 Method Blank 0.25	7.28e3	45.0	YES
3	3	13C3-PFHxS	B7L0120-BLK1 Method Blank 0.25	2.26e3	56.7	NO
4	4	13C8-PFOA	B7L0120-BLK1 Method Blank 0.25	6.70e3	43.3	YES
5	5	13C9-PFNA	B7L0120-BLK1 Method Blank 0.25	6.41e3	38.4	YES
6	6	13C4-PFOS	B7L0120-BLK1 Method Blank 0.25	1.74e3	43.9	YES
7	7	13C6-PFDA	B7L0120-BLK1 Method Blank 0.25	5.92e3	56.0	NO
8	8	13C7-PFUdA	B7L0120-BLK1 Method Blank 0.25	7.32e3	50.8	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701886-01 YS22-EB01-120417 0.11748	8.55e3	58.2	NO
2	2	13C5-PFHxA	1701886-01 YS22-EB01-120417 0.11748	1.03e4	63.7	NO
3	3	13C3-PFHxS	1701886-01 YS22-EB01-120417 0.11748	2.56e3	64.0	NO
4	4	13C8-PFOA	1701886-01 YS22-EB01-120417 0.11748	9.58e3	61.9	NO
5	5	13C9-PFNA	1701886-01 YS22-EB01-120417 0.11748	9.68e3	58.0	NO
6	6	13C4-PFOS	1701886-01 YS22-EB01-120417 0.11748	2.76e3	69.9	NO
7	7	13C6-PFDA	1701886-01 YS22-EB01-120417 0.11748	8.14e3	77.0	NO
8	8	13C7-PFUdA	1701886-01 YS22-EB01-120417 0.11748	8.53e3	59.1	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701886-02 YS22-AQ-120517 0.11801	7.58e3	51.5	NO
2	2	13C5-PFHxA	1701886-02 YS22-AQ-120517 0.11801	8.53e3	52.8	NO
3	3	13C3-PFHxS	1701886-02 YS22-AQ-120517 0.11801	2.28e3	57.2	NO
4	4	13C8-PFOA	1701886-02 YS22-AQ-120517 0.11801	8.41e3	54.4	NO
5	5	13C9-PFNA	1701886-02 YS22-AQ-120517 0.11801	7.46e3	44.7	YES
6	6	13C4-PFOS	1701886-02 YS22-AQ-120517 0.11801	2.08e3	52.7	NO
7	7	13C6-PFDA	1701886-02 YS22-AQ-120517 0.11801	6.28e3	59.4	NO
8	8	13C7-PFUdA	1701886-02 YS22-AQ-120517 0.11801	7.43e3	51.5	NO

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701886-03 YS22-GW18-1217 0.11927	7.00e3	47.6	YES
2	2	13C5-PFHxA	1701886-03 YS22-GW18-1217 0.11927	7.86e3	48.6	YES
3	3	13C3-PFHxS	1701886-03 YS22-GW18-1217 0.11927	1.77e3	44.4	YES
4	4	13C8-PFOA	1701886-03 YS22-GW18-1217 0.11927	7.53e3	48.7	YES
5	5	13C9-PFNA	1701886-03 YS22-GW18-1217 0.11927	8.68e3	52.0	NO
6	6	13C4-PFOS	1701886-03 YS22-GW18-1217 0.11927	2.08e3	52.7	NO
7	7	13C6-PFDA	1701886-03 YS22-GW18-1217 0.11927	5.56e3	52.6	NO
8	8	13C7-PFUdA	1701886-03 YS22-GW18-1217 0.11927	7.73e3	53.5	NO

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

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

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

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST180115M2-10 PFC CS3 17L2611	1.64e4	111.3	NO
2	2	13C5-PFHxA	ST180115M2-10 PFC CS3 17L2611	1.94e4	120.0	NO
3	3	13C3-PFHxS	ST180115M2-10 PFC CS3 17L2611	4.50e3	112.7	NO
4	4	13C8-PFOA	ST180115M2-10 PFC CS3 17L2611	1.50e4	96.9	NO
5	5	13C9-PFNA	ST180115M2-10 PFC CS3 17L2611	1.69e4	101.2	NO
6	6	13C4-PFOS	ST180115M2-10 PFC CS3 17L2611	3.84e3	97.3	NO
7	7	13C6-PFDA	ST180115M2-10 PFC CS3 17L2611	1.14e4	108.0	NO
8	8	13C7-PFUdA	ST180115M2-10 PFC CS3 17L2611	1.60e4	110.6	NO

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

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

Name: 180115M2_45, Date: 16-Jan-2018, Time: 08:38:20, ID: B7L0183-BS1 OPR 0.25, Description: OPR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	B7L0183-BS1 OPR 0.25	7.71e3	52.4	NO
2	2	13C5-PFHxA	B7L0183-BS1 OPR 0.25	9.16e3	56.7	NO
3	3	13C3-PFHxS	B7L0183-BS1 OPR 0.25	2.85e3	71.5	NO
4	4	13C8-PFOA	B7L0183-BS1 OPR 0.25	8.34e3	53.9	NO
5	5	13C9-PFNA	B7L0183-BS1 OPR 0.25	7.64e3	45.8	YES
6	6	13C4-PFOS	B7L0183-BS1 OPR 0.25	1.96e3	49.6	YES
7	7	13C6-PFDA	B7L0183-BS1 OPR 0.25	5.96e3	56.3	NO
8	8	13C7-PFUdA	B7L0183-BS1 OPR 0.25	8.06e3	55.9	NO

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Name: 180115M2_46, Date: 16-Jan-2018, Time: 08:49:46, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0183-BSD1 LCSD 0.25	7.61e3	51.8	NO
2	2 13C5-PFHxA	B7L0183-BSD1 LCSD 0.25	8.87e3	54.9	NO
3	3 13C3-PFHxS	B7L0183-BSD1 LCSD 0.25	2.54e3	63.7	NO
4	4 13C8-PFOA	B7L0183-BSD1 LCSD 0.25	8.07e3	52.2	NO
5	5 13C9-PFNA	B7L0183-BSD1 LCSD 0.25	8.19e3	49.1	YES
6	6 13C4-PFOS	B7L0183-BSD1 LCSD 0.25	2.14e3	54.2	NO
7	7 13C6-PFDA	B7L0183-BSD1 LCSD 0.25	6.27e3	59.3	NO
8	8 13C7-PFUdA	B7L0183-BSD1 LCSD 0.25	7.79e3	54.0	NO

Name: 180115M2_47, Date: 16-Jan-2018, Time: 09:01:13, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0183-BLK1 Method Blank 0.25	7.43e3	50.6	NO
2	2 13C5-PFHxA	B7L0183-BLK1 Method Blank 0.25	8.88e3	54.9	NO
3	3 13C3-PFHxS	B7L0183-BLK1 Method Blank 0.25	2.08e3	52.1	NO
4	4 13C8-PFOA	B7L0183-BLK1 Method Blank 0.25	8.04e3	52.0	NO
5	5 13C9-PFNA	B7L0183-BLK1 Method Blank 0.25	7.57e3	45.4	YES
6	6 13C4-PFOS	B7L0183-BLK1 Method Blank 0.25	2.28e3	57.7	NO
7	7 13C6-PFDA	B7L0183-BLK1 Method Blank 0.25	5.64e3	53.4	NO
8	8 13C7-PFUdA	B7L0183-BLK1 Method Blank 0.25	8.81e3	61.0	NO

Name: 180115M2_48, Date: 16-Jan-2018, Time: 09:12:40, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701953-01 CV-Dup09-20171213 0.2568	7.32e3	49.8	YES
2	2 13C5-PFHxA	1701953-01 CV-Dup09-20171213 0.2568	8.71e3	53.9	NO
3	3 13C3-PFHxS	1701953-01 CV-Dup09-20171213 0.2568	2.16e3	54.1	NO
4	4 13C8-PFOA	1701953-01 CV-Dup09-20171213 0.2568	8.05e3	52.0	NO
5	5 13C9-PFNA	1701953-01 CV-Dup09-20171213 0.2568	8.15e3	48.9	YES
6	6 13C4-PFOS	1701953-01 CV-Dup09-20171213 0.2568	2.42e3	61.3	NO
7	7 13C6-PFDA	1701953-01 CV-Dup09-20171213 0.2568	6.78e3	64.1	NO
8	8 13C7-PFUdA	1701953-01 CV-Dup09-20171213 0.2568	6.80e3	47.1	YES

Name: 180115M2_49, Date: 16-Jan-2018, Time: 09:24:07, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701953-02 SA-MW127S-20171213 0....	7.00e3	47.6	YES
2	2 13C5-PFHxA	1701953-02 SA-MW127S-20171213 0....	8.33e3	51.6	NO
3	3 13C3-PFHxS	1701953-02 SA-MW127S-20171213 0....	2.11e3	53.0	NO
4	4 13C8-PFOA	1701953-02 SA-MW127S-20171213 0....	7.75e3	50.1	NO
5	5 13C9-PFNA	1701953-02 SA-MW127S-20171213 0....	7.42e3	44.4	YES
6	6 13C4-PFOS	1701953-02 SA-MW127S-20171213 0....	2.07e3	52.4	NO
7	7 13C6-PFDA	1701953-02 SA-MW127S-20171213 0....	5.39e3	51.0	NO
8	8 13C7-PFUdA	1701953-02 SA-MW127S-20171213 0....	7.17e3	49.7	YES

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Name: 180115M2_50, Date: 16-Jan-2018, Time: 09:42:12, ID: 1701953-03 SA-MW126S-20171213 0.24287,
Description: SA-MW126S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-03 SA-MW126S-20171213 0...	7.29e3	49.6	YES
2	2	13C5-PFHxA	1701953-03 SA-MW126S-20171213 0...	8.98e3	55.6	NO
3	3	13C3-PFHxS	1701953-03 SA-MW126S-20171213 0...	1.95e3	48.9	YES
4	4	13C8-PFOA	1701953-03 SA-MW126S-20171213 0...	7.51e3	48.6	YES
5	5	13C9-PFNA	1701953-03 SA-MW126S-20171213 0...	6.92e3	41.4	YES
6	6	13C4-PFOS	1701953-03 SA-MW126S-20171213 0...	2.23e3	56.5	NO
7	7	13C6-PFDA	1701953-03 SA-MW126S-20171213 0...	7.24e3	68.5	NO
8	8	13C7-PFUDa	1701953-03 SA-MW126S-20171213 0...	8.67e3	60.1	NO

Name: 180115M2_51, Date: 16-Jan-2018, Time: 09:53:46, ID: 1701953-04 SA-MW126I-20171213 0.24106,
Description: SA-MW126I-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-04 SA-MW126I-20171213 0.2...	7.05e3	48.0	YES
2	2	13C5-PFHxA	1701953-04 SA-MW126I-20171213 0.2...	8.32e3	51.5	NO
3	3	13C3-PFHxS	1701953-04 SA-MW126I-20171213 0.2...	2.14e3	53.5	NO
4	4	13C8-PFOA	1701953-04 SA-MW126I-20171213 0.2...	7.69e3	49.7	YES
5	5	13C9-PFNA	1701953-04 SA-MW126I-20171213 0.2...	8.82e3	52.8	NO
6	6	13C4-PFOS	1701953-04 SA-MW126I-20171213 0.2...	2.12e3	53.6	NO
7	7	13C6-PFDA	1701953-04 SA-MW126I-20171213 0.2...	5.87e3	55.5	NO
8	8	13C7-PFUDa	1701953-04 SA-MW126I-20171213 0.2...	8.27e3	57.3	NO

Name: 180115M2_52, Date: 16-Jan-2018, Time: 10:05:14, ID: 1701953-05 SA-MW127S-FRB-20171213 0.25506,
Description: SA-MW127S-FRB-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-05 SA-MW127S-FRB-201712...	9.04e3	61.5	NO
2	2	13C5-PFHxA	1701953-05 SA-MW127S-FRB-201712...	1.05e4	64.9	NO
3	3	13C3-PFHxS	1701953-05 SA-MW127S-FRB-201712...	2.55e3	64.0	NO
4	4	13C8-PFOA	1701953-05 SA-MW127S-FRB-201712...	9.97e3	64.5	NO
5	5	13C9-PFNA	1701953-05 SA-MW127S-FRB-201712...	1.08e4	64.7	NO
6	6	13C4-PFOS	1701953-05 SA-MW127S-FRB-201712...	3.45e3	87.3	NO
7	7	13C6-PFDA	1701953-05 SA-MW127S-FRB-201712...	6.59e3	62.3	NO
8	8	13C7-PFUDa	1701953-05 SA-MW127S-FRB-201712...	8.61e3	59.7	NO

Name: 180115M2_53, Date: 16-Jan-2018, Time: 10:16:50, ID: 1701953-06 SA-Dup10-20171213 0.25769,
Description: SA-Dup10-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-06 SA-Dup10-20171213 0.25...	7.73e3	52.6	NO
2	2	13C5-PFHxA	1701953-06 SA-Dup10-20171213 0.25...	8.73e3	54.0	NO
3	3	13C3-PFHxS	1701953-06 SA-Dup10-20171213 0.25...	2.15e3	53.8	NO
4	4	13C8-PFOA	1701953-06 SA-Dup10-20171213 0.25...	7.01e3	45.4	YES
5	5	13C9-PFNA	1701953-06 SA-Dup10-20171213 0.25...	8.48e3	50.8	NO
6	6	13C4-PFOS	1701953-06 SA-Dup10-20171213 0.25...	2.25e3	56.9	NO
7	7	13C6-PFDA	1701953-06 SA-Dup10-20171213 0.25...	5.73e3	54.2	NO
8	8	13C7-PFUDa	1701953-06 SA-Dup10-20171213 0.25...	7.45e3	51.6	NO

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Name: 180115M2_54, Date: 16-Jan-2018, Time: 10:28:24, ID: 1701953-07 SA-PZ123S-20171213 0.24245,
Description: SA-PZ123S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-07 SA-PZ123S-20171213 0.2...	8.33e3	56.7	NO
2	2	13C5-PFHxA	1701953-07 SA-PZ123S-20171213 0.2...	9.48e3	58.7	NO
3	3	13C3-PFHxS	1701953-07 SA-PZ123S-20171213 0.2...	2.26e3	56.5	NO
4	4	13C8-PFOA	1701953-07 SA-PZ123S-20171213 0.2...	9.61e3	62.2	NO
5	5	13C9-PFNA	1701953-07 SA-PZ123S-20171213 0.2...	8.09e3	48.4	YES
6	6	13C4-PFOS	1701953-07 SA-PZ123S-20171213 0.2...	2.61e3	66.0	NO
7	7	13C6-PFDA	1701953-07 SA-PZ123S-20171213 0.2...	5.92e3	56.0	NO
8	8	13C7-PFUdA	1701953-07 SA-PZ123S-20171213 0.2...	8.43e3	58.4	NO

Name: 180115M2_55, Date: 16-Jan-2018, Time: 10:39:51, ID: 1701953-08 SA-PZ123I-20171213 0.25702,
Description: SA-PZ123I-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-08 SA-PZ123I-20171213 0.25...	7.44e3	50.6	NO
2	2	13C5-PFHxA	1701953-08 SA-PZ123I-20171213 0.25...	8.84e3	54.7	NO
3	3	13C3-PFHxS	1701953-08 SA-PZ123I-20171213 0.25...	2.34e3	58.6	NO
4	4	13C8-PFOA	1701953-08 SA-PZ123I-20171213 0.25...	8.64e3	55.9	NO
5	5	13C9-PFNA	1701953-08 SA-PZ123I-20171213 0.25...	7.35e3	44.0	YES
6	6	13C4-PFOS	1701953-08 SA-PZ123I-20171213 0.25...	2.57e3	65.0	NO
7	7	13C6-PFDA	1701953-08 SA-PZ123I-20171213 0.25...	4.27e3	40.4	YES
8	8	13C7-PFUdA	1701953-08 SA-PZ123I-20171213 0.25...	6.79e3	47.0	YES

Name: 180115M2_56, Date: 16-Jan-2018, Time: 10:51:18, ID: 1701953-09 SA-PZ123I1-20171213 0.25747,
Description: SA-PZ123I1-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-09 SA-PZ123I1-20171213 0.2...	7.87e3	53.6	NO
2	2	13C5-PFHxA	1701953-09 SA-PZ123I1-20171213 0.2...	9.62e3	59.5	NO
3	3	13C3-PFHxS	1701953-09 SA-PZ123I1-20171213 0.2...	2.60e3	65.1	NO
4	4	13C8-PFOA	1701953-09 SA-PZ123I1-20171213 0.2...	8.20e3	53.0	NO
5	5	13C9-PFNA	1701953-09 SA-PZ123I1-20171213 0.2...	7.31e3	43.8	YES
6	6	13C4-PFOS	1701953-09 SA-PZ123I1-20171213 0.2...	2.26e3	57.2	NO
7	7	13C6-PFDA	1701953-09 SA-PZ123I1-20171213 0.2...	5.74e3	54.3	NO
8	8	13C7-PFUdA	1701953-09 SA-PZ123I1-20171213 0.2...	8.84e3	61.3	NO

Name: 180115M2_57, Date: 16-Jan-2018, Time: 11:02:44, ID: 1701953-10 SA-PZ118S-20171213 0.23505,
Description: SA-PZ118S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-10 SA-PZ118S-20171213 0.2...	7.26e3	49.4	YES
2	2	13C5-PFHxA	1701953-10 SA-PZ118S-20171213 0.2...	8.67e3	53.6	NO
3	3	13C3-PFHxS	1701953-10 SA-PZ118S-20171213 0.2...	1.88e3	47.0	YES
4	4	13C8-PFOA	1701953-10 SA-PZ118S-20171213 0.2...	7.26e3	47.0	YES
5	5	13C9-PFNA	1701953-10 SA-PZ118S-20171213 0.2...	6.77e3	40.6	YES
6	6	13C4-PFOS	1701953-10 SA-PZ118S-20171213 0.2...	1.95e3	49.3	YES
7	7	13C6-PFDA	1701953-10 SA-PZ118S-20171213 0.2...	5.75e3	54.4	NO
8	8	13C7-PFUdA	1701953-10 SA-PZ118S-20171213 0.2...	6.73e3	46.6	YES

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Name: 180115M2_58, Date: 16-Jan-2018, Time: 11:14:11, ID: 1701953-11 SA-PZ118I-20171213 0.24112, Description: SA-PZ118I-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-11 SA-PZ118I-20171213 0.24...	7.67e3	52.2	NO
2	2	13C5-PFHxA	1701953-11 SA-PZ118I-20171213 0.24...	8.62e3	53.3	NO
3	3	13C3-PFHxS	1701953-11 SA-PZ118I-20171213 0.24...	2.22e3	55.7	NO
4	4	13C8-PFOA	1701953-11 SA-PZ118I-20171213 0.24...	7.29e3	47.1	YES
5	5	13C9-PFNA	1701953-11 SA-PZ118I-20171213 0.24...	6.87e3	41.2	YES
6	6	13C4-PFOS	1701953-11 SA-PZ118I-20171213 0.24...	1.99e3	50.3	NO
7	7	13C6-PFDA	1701953-11 SA-PZ118I-20171213 0.24...	6.03e3	57.0	NO
8	8	13C7-PFUdA	1701953-11 SA-PZ118I-20171213 0.24...	7.81e3	54.2	NO

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	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	IPA			NO
2	2	13C5-PFHxA	IPA			NO
3	3	13C3-PFHxS	IPA			NO
4	4	13C8-PFOA	IPA			NO
5	5	13C9-PFNA	IPA	6.16e0	0.0	YES
6	6	13C4-PFOS	IPA			NO
7	7	13C6-PFDA	IPA			NO
8	8	13C7-PFUdA	IPA			NO

Name: 180115M2_60, Date: 16-Jan-2018, Time: 11:37:05, ID: ST180115M2-11 PFC CS0 17L2608, Description: PFC CS0 17L2608

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST180115M2-11 PFC CS0 17L2608	1.74e4	118.1	NO
2	2	13C5-PFHxA	ST180115M2-11 PFC CS0 17L2608	1.96e4	121.4	NO
3	3	13C3-PFHxS	ST180115M2-11 PFC CS0 17L2608	4.84e3	121.4	NO
4	4	13C8-PFOA	ST180115M2-11 PFC CS0 17L2608	1.80e4	116.6	NO
5	5	13C9-PFNA	ST180115M2-11 PFC CS0 17L2608	1.79e4	107.1	NO
6	6	13C4-PFOS	ST180115M2-11 PFC CS0 17L2608	5.14e3	130.2	NO
7	7	13C6-PFDA	ST180115M2-11 PFC CS0 17L2608	1.18e4	111.7	NO
8	8	13C7-PFUdA	ST180115M2-11 PFC CS0 17L2608	1.63e4	113.0	NO

Name: 180115M2_61, Date: 16-Jan-2018, Time: 11:48:32, ID: IPA, Description: IPA

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

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Name: 180115M2_62, Date: 16-Jan-2018, Time: 11:59:59, ID: 1701905-03RE1@40X WINF1712061655JLB 0.25,
Description: WINF1712061655JLB

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701905-03RE1@40X WINF17120616...	2.57e2	1.8	YES
2	2	13C5-PFHxA	1701905-03RE1@40X WINF17120616...	2.84e2	1.8	YES
3	3	13C3-PFHxS	1701905-03RE1@40X WINF17120616...	6.38e1	1.6	YES
4	4	13C8-PFOA	1701905-03RE1@40X WINF17120616...	2.50e2	1.6	YES
5	5	13C9-PFNA	1701905-03RE1@40X WINF17120616...	2.63e2	1.6	YES
6	6	13C4-PFOS	1701905-03RE1@40X WINF17120616...	2.52e1	0.6	YES
7	7	13C6-PFDA	1701905-03RE1@40X WINF17120616...	1.32e2	1.3	YES
8	8	13C7-PFUDa	1701905-03RE1@40X WINF17120616...	1.81e2	1.3	YES

Name: 180115M2_63, Date: 16-Jan-2018, Time: 12:11:26, ID: 1701852-01@20X IR03-MW034-C2-17D 0.26646,
Description: IR03-MW034-C2-17D

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701852-01@20X IR03-MW034-C2-17...	4.78e2	3251.6	YES
2	2	13C5-PFHxA	1701852-01@20X IR03-MW034-C2-17...	4.86e2	3005.1	YES
3	3	13C3-PFHxS	1701852-01@20X IR03-MW034-C2-17...	9.95e1	2493.3	YES
4	4	13C8-PFOA	1701852-01@20X IR03-MW034-C2-17...	4.07e2	2628.8	YES
5	5	13C9-PFNA	1701852-01@20X IR03-MW034-C2-17...	3.52e2	2108.9	YES
6	6	13C4-PFOS	1701852-01@20X IR03-MW034-C2-17...	1.03e2	2613.0	YES
7	7	13C6-PFDA	1701852-01@20X IR03-MW034-C2-17...	2.66e2	2514.7	YES
8	8	13C7-PFUDa	1701852-01@20X IR03-MW034-C2-17...	3.52e2	2439.9	YES

Name: 180115M2_64, Date: 16-Jan-2018, Time: 12:22:53, ID: 1701852-02@20X IR03-MW018B-C1-17D 0.25583,
Description: IR03-MW018B-C1-17D

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701852-02@20X IR03-MW018B-C1-1...	5.22e2	3.5	YES
2	2	13C5-PFHxA	1701852-02@20X IR03-MW018B-C1-1...	5.82e2	3.6	YES
3	3	13C3-PFHxS	1701852-02@20X IR03-MW018B-C1-1...	1.41e2	3.5	YES
4	4	13C8-PFOA	1701852-02@20X IR03-MW018B-C1-1...	5.41e2	3.5	YES
5	5	13C9-PFNA	1701852-02@20X IR03-MW018B-C1-1...	4.42e2	2.6	YES
6	6	13C4-PFOS	1701852-02@20X IR03-MW018B-C1-1...	1.24e2	3.1	YES
7	7	13C6-PFDA	1701852-02@20X IR03-MW018B-C1-1...	3.61e2	3.4	YES
8	8	13C7-PFUDa	1701852-02@20X IR03-MW018B-C1-1...	3.98e2	2.8	YES

Name: 180115M2_65, Date: 16-Jan-2018, Time: 12:34:19, ID: 1701852-03@40X IR03-MW018A-C2-17D 0.26605,
Description: IR03-MW018A-C2-17D

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701852-03@40X IR03-MW018A-C2-1...	2.16e2	1467.1	YES
2	2	13C5-PFHxA	1701852-03@40X IR03-MW018A-C2-1...	2.66e2	1644.3	YES
3	3	13C3-PFHxS	1701852-03@40X IR03-MW018A-C2-1...	6.78e1	1699.4	YES
4	4	13C8-PFOA	1701852-03@40X IR03-MW018A-C2-1...	1.85e2	1199.4	YES
5	5	13C9-PFNA	1701852-03@40X IR03-MW018A-C2-1...	2.01e2	1206.7	YES
6	6	13C4-PFOS	1701852-03@40X IR03-MW018A-C2-1...	5.35e1	1354.3	YES
7	7	13C6-PFDA	1701852-03@40X IR03-MW018A-C2-1...	1.87e2	1767.7	YES
8	8	13C7-PFUDa	1701852-03@40X IR03-MW018A-C2-1...	2.28e2	1578.5	YES

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Name: 180115M2_66, Date: 16-Jan-2018, Time: 12:45:47, ID: 1701852-03@20X IR03-MW018A-C2-17D 0.26605, Description: IR03-MW018A-C2-17D

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701852-03@20X IR03-MW018A-C2-1...	6.28e2	4270.4	YES
2	2	13C5-PFHxA	1701852-03@20X IR03-MW018A-C2-1...	6.94e2	4295.0	YES
3	3	13C3-PFHxS	1701852-03@20X IR03-MW018A-C2-1...	1.73e2	4331.4	YES
4	4	13C8-PFOA	1701852-03@20X IR03-MW018A-C2-1...	6.79e2	4387.5	YES
5	5	13C9-PFNA	1701852-03@20X IR03-MW018A-C2-1...	6.93e2	4152.4	YES
6	6	13C4-PFOS	1701852-03@20X IR03-MW018A-C2-1...	1.24e2	3144.6	YES
7	7	13C6-PFDA	1701852-03@20X IR03-MW018A-C2-1...	3.79e2	3581.6	YES
8	8	13C7-PFUdA	1701852-03@20X IR03-MW018A-C2-1...	5.56e2	3851.4	YES

Name: 180115M2_67, Date: 16-Jan-2018, Time: 12:57:13, ID: IPA, Description: IPA

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

Name: 180115M2_68, Date: 16-Jan-2018, Time: 13:08:40, ID: 1701852-02 IR03-MW018B-C1-17D 0.25583, Description: IR03-MW018B-C1-17D

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701852-02 IR03-MW018B-C1-17D 0.2...	5.59e3	38.0	YES
2	2	13C5-PFHxA	1701852-02 IR03-MW018B-C1-17D 0.2...	6.33e3	39.2	YES
3	3	13C3-PFHxS	1701852-02 IR03-MW018B-C1-17D 0.2...	1.53e3	38.3	YES
4	4	13C8-PFOA	1701852-02 IR03-MW018B-C1-17D 0.2...	6.39e3	41.3	YES
5	5	13C9-PFNA	1701852-02 IR03-MW018B-C1-17D 0.2...	5.89e3	35.3	YES
6	6	13C4-PFOS	1701852-02 IR03-MW018B-C1-17D 0.2...	1.27e3	32.2	YES
7	7	13C6-PFDA	1701852-02 IR03-MW018B-C1-17D 0.2...	4.24e3	40.1	YES
8	8	13C7-PFUdA	1701852-02 IR03-MW018B-C1-17D 0.2...	6.94e3	48.1	YES

Name: 180115M2_69, Date: 16-Jan-2018, Time: 13:20:07, ID: IPA, Description: IPA

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

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Name: 180115M2_70, Date: 16-Jan-2018, Time: 13:31:34, ID: 1701840-05 YS22-GW10-1217 0.11512, Description: YS22-GW10-1217

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701840-05 YS22-GW10-1217 0.11512	7.95e3	54.1	NO
2	2 13C5-PFHxA	1701840-05 YS22-GW10-1217 0.11512	9.09e3	56.3	NO
3	3 13C3-PFHxS	1701840-05 YS22-GW10-1217 0.11512	2.39e3	59.8	NO
4	4 13C8-PFOA	1701840-05 YS22-GW10-1217 0.11512	8.05e3	52.1	NO
5	5 13C9-PFNA	1701840-05 YS22-GW10-1217 0.11512	8.27e3	49.6	YES
6	6 13C4-PFOS	1701840-05 YS22-GW10-1217 0.11512	2.22e3	56.3	NO
7	7 13C6-PFDA	1701840-05 YS22-GW10-1217 0.11512	4.40e3	41.6	YES
8	8 13C7-PFUdA	1701840-05 YS22-GW10-1217 0.11512	7.44e3	51.6	NO

Name: 180115M2_71, Date: 16-Jan-2018, Time: 13:43:01, ID: IPA, Description: IPA

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

Name: 180115M2_72, Date: 16-Jan-2018, Time: 13:54:28, ID: ST180115M2-12 PFC CS3 17L2611, Description: PFC CS3 17L2611

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180115M2-12 PFC CS3 17L2611	1.85e4	125.7	NO
2	2 13C5-PFHxA	ST180115M2-12 PFC CS3 17L2611	2.19e4	135.7	NO
3	3 13C3-PFHxS	ST180115M2-12 PFC CS3 17L2611	5.43e3	136.0	NO
4	4 13C8-PFOA	ST180115M2-12 PFC CS3 17L2611	1.68e4	108.5	NO
5	5 13C9-PFNA	ST180115M2-12 PFC CS3 17L2611	2.02e4	121.0	NO
6	6 13C4-PFOS	ST180115M2-12 PFC CS3 17L2611	5.71e3	144.6	NO
7	7 13C6-PFDA	ST180115M2-12 PFC CS3 17L2611	1.42e4	134.6	NO
8	8 13C7-PFUdA	ST180115M2-12 PFC CS3 17L2611	1.50e4	103.6	NO

Name: 180115M2_73, Date: 16-Jan-2018, Time: 14:05:55, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA	5.12e0	0.1	YES
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUdA	IPA			NO

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Name: 180115M2_74, Date: 16-Jan-2018, Time: 14:17:32, ID: B7L0208-BS1 OPR 0.25, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0208-BS1 OPR 0.25	8.46e3	57.5	NO
2	2 13C5-PFHxA	B7L0208-BS1 OPR 0.25	1.05e4	65.0	NO
3	3 13C3-PFHxS	B7L0208-BS1 OPR 0.25			
4	4 13C8-PFOA	B7L0208-BS1 OPR 0.25			
5	5 13C9-PFNA	B7L0208-BS1 OPR 0.25			
6	6 13C4-PFOS	B7L0208-BS1 OPR 0.25			
7	7 13C6-PFDA	B7L0208-BS1 OPR 0.25			
8	8 13C7-PFUdA	B7L0208-BS1 OPR 0.25			

Name: 180115M2_75, Date: 16-Jan-2018, Time: 14:29:05, ID: B7L0208-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0208-BLK1 Method Blank 0.25	7.86e3	53.5	NO
2	2 13C5-PFHxA	B7L0208-BLK1 Method Blank 0.25	9.31e3	57.6	NO
3	3 13C3-PFHxS	B7L0208-BLK1 Method Blank 0.25	2.36e3	59.2	NO
4	4 13C8-PFOA	B7L0208-BLK1 Method Blank 0.25	7.91e3	51.1	NO
5	5 13C9-PFNA	B7L0208-BLK1 Method Blank 0.25	8.65e3	51.8	NO
6	6 13C4-PFOS	B7L0208-BLK1 Method Blank 0.25	2.52e3	63.7	NO
7	7 13C6-PFDA	B7L0208-BLK1 Method Blank 0.25	6.65e3	62.9	NO
8	8 13C7-PFUdA	B7L0208-BLK1 Method Blank 0.25	7.94e3	55.0	NO

Name: 180115M2_76, Date: 16-Jan-2018, Time: 15:00:31, ID: 1701820-01RE1 WR1711281315MK 0.25712, Description: WR1711281315MK

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701820-01RE1 WR1711281315MK 0...	7.34e3	49.9	NO
2	2 13C5-PFHxA	1701820-01RE1 WR1711281315MK 0...	8.64e3	53.5	NO
3	3 13C3-PFHxS	1701820-01RE1 WR1711281315MK 0...	1.84e3	46.2	YES
4	4 13C8-PFOA	1701820-01RE1 WR1711281315MK 0...	7.60e3	49.1	YES
5	5 13C9-PFNA	1701820-01RE1 WR1711281315MK 0...	7.59e3	45.5	YES
6	6 13C4-PFOS	1701820-01RE1 WR1711281315MK 0...	2.02e3	51.3	NO
7	7 13C6-PFDA	1701820-01RE1 WR1711281315MK 0...	6.23e3	58.9	NO
8	8 13C7-PFUdA	1701820-01RE1 WR1711281315MK 0...	9.14e3	63.4	NO

Name: 180115M2_77, Date: 16-Jan-2018, Time: 15:12:02, ID: 1701820-02RE1 WR1711281330MK 0.24648, Description: WR1711281330MK

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701820-02RE1 WR1711281330MK 0...	7.62e3	51.9	NO
2	2 13C5-PFHxA	1701820-02RE1 WR1711281330MK 0...	8.78e3	54.3	NO
3	3 13C3-PFHxS	1701820-02RE1 WR1711281330MK 0...	2.40e3	60.0	NO
4	4 13C8-PFOA	1701820-02RE1 WR1711281330MK 0...	8.49e3	54.9	NO
5	5 13C9-PFNA	1701820-02RE1 WR1711281330MK 0...	7.19e3	43.1	YES
6	6 13C4-PFOS	1701820-02RE1 WR1711281330MK 0...	2.12e3	53.7	NO
7	7 13C6-PFDA	1701820-02RE1 WR1711281330MK 0...	5.64e3	53.3	NO
8	8 13C7-PFUdA	1701820-02RE1 WR1711281330MK 0...	7.05e3	48.8	YES

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Name: 180115M2_78, Date: 16-Jan-2018, Time: 15:23:29, ID: 1701820-03RE1 WR1711281345MK 0.25579, Description: WR1711281345MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-03RE1 WR1711281345MK 0...	8.34e3	56.8	NO
2	2	13C5-PFHxA	1701820-03RE1 WR1711281345MK 0...	8.65e3	53.5	NO
3	3	13C3-PFHxS	1701820-03RE1 WR1711281345MK 0...	2.39e3	59.9	NO
4	4	13C8-PFOA	1701820-03RE1 WR1711281345MK 0...	1.02e4	66.1	NO
5	5	13C9-PFNA	1701820-03RE1 WR1711281345MK 0...	8.57e3	51.4	NO
6	6	13C4-PFOS	1701820-03RE1 WR1711281345MK 0...	2.48e3	62.9	NO
7	7	13C6-PFDA	1701820-03RE1 WR1711281345MK 0...	5.05e3	47.8	YES
8	8	13C7-PFUDa	1701820-03RE1 WR1711281345MK 0...	6.57e3	45.5	YES

Name: 180115M2_79, Date: 16-Jan-2018, Time: 15:34:56, ID: 1701820-04RE1 WT1711281420MK 0.26647, Description: WT1711281420MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-04RE1 WT1711281420MK 0...	7.57e3	51.5	NO
2	2	13C5-PFHxA	1701820-04RE1 WT1711281420MK 0...	8.99e3	55.7	NO
3	3	13C3-PFHxS	1701820-04RE1 WT1711281420MK 0...	1.98e3	49.7	YES
4	4	13C8-PFOA	1701820-04RE1 WT1711281420MK 0...	7.97e3	51.5	NO
5	5	13C9-PFNA	1701820-04RE1 WT1711281420MK 0...	8.80e3	52.7	NO
6	6	13C4-PFOS	1701820-04RE1 WT1711281420MK 0...	2.52e3	63.7	NO
7	7	13C6-PFDA	1701820-04RE1 WT1711281420MK 0...	4.18e3	39.6	YES
8	8	13C7-PFUDa	1701820-04RE1 WT1711281420MK 0...	6.38e3	44.2	YES

Name: 180115M2_80, Date: 16-Jan-2018, Time: 15:46:23, ID: 1701820-05RE1 WT1711281440MK 0.25752, Description: WT1711281440MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-05RE1 WT1711281440MK 0...	8.05e3	54.8	NO
2	2	13C5-PFHxA	1701820-05RE1 WT1711281440MK 0...	9.24e3	57.2	NO
3	3	13C3-PFHxS	1701820-05RE1 WT1711281440MK 0...	2.38e3	59.7	NO
4	4	13C8-PFOA	1701820-05RE1 WT1711281440MK 0...	9.22e3	59.6	NO
5	5	13C9-PFNA	1701820-05RE1 WT1711281440MK 0...	8.82e3	52.8	NO
6	6	13C4-PFOS	1701820-05RE1 WT1711281440MK 0...	2.71e3	68.6	NO
7	7	13C6-PFDA	1701820-05RE1 WT1711281440MK 0...	6.05e3	57.3	NO
8	8	13C7-PFUDa	1701820-05RE1 WT1711281440MK 0...	8.86e3	61.4	NO

Name: 180115M2_81, Date: 16-Jan-2018, Time: 15:57:50, ID: 1701820-06RE1 FB1711281445MK 0.2552, Description: FB1711281445MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-06RE1 FB1711281445MK 0.2...	8.92e3	60.7	NO
2	2	13C5-PFHxA	1701820-06RE1 FB1711281445MK 0.2...	1.01e4	62.6	NO
3	3	13C3-PFHxS	1701820-06RE1 FB1711281445MK 0.2...	2.26e3	56.5	NO
4	4	13C8-PFOA	1701820-06RE1 FB1711281445MK 0.2...	8.07e3	52.2	NO
5	5	13C9-PFNA	1701820-06RE1 FB1711281445MK 0.2...	8.95e3	53.6	NO
6	6	13C4-PFOS	1701820-06RE1 FB1711281445MK 0.2...	2.50e3	63.2	NO
7	7	13C6-PFDA	1701820-06RE1 FB1711281445MK 0.2...	5.97e3	56.5	NO
8	8	13C7-PFUDa	1701820-06RE1 FB1711281445MK 0.2...	7.83e3	54.3	NO

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Name: 180115M2_82, Date: 16-Jan-2018, Time: 16:09:17, ID: 1701820-07RE1 WT1711281535MK 0.25433,
Description: WT1711281535MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-07RE1 WT1711281535MK 0...	8.11e3	55.2	NO
2	2	13C5-PFHxA	1701820-07RE1 WT1711281535MK 0...	9.77e3	60.4	NO
3	3	13C3-PFHxS	1701820-07RE1 WT1711281535MK 0...	2.36e3	59.0	NO
4	4	13C8-PFOA	1701820-07RE1 WT1711281535MK 0...	8.78e3	56.8	NO
5	5	13C9-PFNA	1701820-07RE1 WT1711281535MK 0...	9.22e3	55.2	NO
6	6	13C4-PFOS	1701820-07RE1 WT1711281535MK 0...	2.43e3	61.4	NO
7	7	13C6-PFDA	1701820-07RE1 WT1711281535MK 0...	5.41e3	51.1	NO
8	8	13C7-PFUDa	1701820-07RE1 WT1711281535MK 0...	7.34e3	50.9	NO

Name: 180115M2_83, Date: 16-Jan-2018, Time: 16:20:43, ID: 1701820-08RE1 WR1711281555MK 0.26231,
Description: WR1711281555MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-08RE1 WR1711281555MK 0...	8.01e3	54.5	NO
2	2	13C5-PFHxA	1701820-08RE1 WR1711281555MK 0...	9.80e3	60.7	NO
3	3	13C3-PFHxS	1701820-08RE1 WR1711281555MK 0...	2.38e3	59.6	NO
4	4	13C8-PFOA	1701820-08RE1 WR1711281555MK 0...	8.09e3	52.3	NO
5	5	13C9-PFNA	1701820-08RE1 WR1711281555MK 0...	7.32e3	43.8	YES
6	6	13C4-PFOS	1701820-08RE1 WR1711281555MK 0...	2.44e3	61.9	NO
7	7	13C6-PFDA	1701820-08RE1 WR1711281555MK 0...	5.43e3	51.4	NO
8	8	13C7-PFUDa	1701820-08RE1 WR1711281555MK 0...	6.39e3	44.3	YES

Name: 180115M2_84, Date: 16-Jan-2018, Time: 16:32:11, ID: 1701820-09RE1 WR1711290820MK 0.24977,
Description: WR1711290820MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-09RE1 WR1711290820MK 0...	8.04e3	54.7	NO
2	2	13C5-PFHxA	1701820-09RE1 WR1711290820MK 0...	8.89e3	55.0	NO
3	3	13C3-PFHxS	1701820-09RE1 WR1711290820MK 0...	2.41e3	60.3	NO
4	4	13C8-PFOA	1701820-09RE1 WR1711290820MK 0...	8.31e3	53.7	NO
5	5	13C9-PFNA	1701820-09RE1 WR1711290820MK 0...	9.28e3	55.6	NO
6	6	13C4-PFOS	1701820-09RE1 WR1711290820MK 0...	2.21e3	56.0	NO
7	7	13C6-PFDA	1701820-09RE1 WR1711290820MK 0...	5.15e3	48.7	YES
8	8	13C7-PFUDa	1701820-09RE1 WR1711290820MK 0...	7.06e3	48.9	YES

Name: 180115M2_85, Date: 16-Jan-2018, Time: 16:43:37, ID: 1701820-10RE1 WT1711290835MK 0.26178,
Description: WT1711290835MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-10RE1 WT1711290835MK 0...	7.99e3	54.3	NO
2	2	13C5-PFHxA	1701820-10RE1 WT1711290835MK 0...	9.10e3	56.4	NO
3	3	13C3-PFHxS	1701820-10RE1 WT1711290835MK 0...	2.44e3	61.2	NO
4	4	13C8-PFOA	1701820-10RE1 WT1711290835MK 0...	8.30e3	53.7	NO
5	5	13C9-PFNA	1701820-10RE1 WT1711290835MK 0...	8.15e3	48.8	YES
6	6	13C4-PFOS	1701820-10RE1 WT1711290835MK 0...	2.28e3	57.7	NO
7	7	13C6-PFDA	1701820-10RE1 WT1711290835MK 0...	5.52e3	52.2	NO
8	8	13C7-PFUDa	1701820-10RE1 WT1711290835MK 0...	7.67e3	53.2	NO

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Name: 180115M2_86, Date: 16-Jan-2018, Time: 16:55:04, ID: 1701820-11RE1 WT1711290845MK 0.26795, Description: WT1711290845MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-11RE1 WT1711290845MK 0....	8.57e3	58.3	NO
2	2	13C5-PFHxA	1701820-11RE1 WT1711290845MK 0....	8.82e3	54.6	NO
3	3	13C3-PFHxS	1701820-11RE1 WT1711290845MK 0....	2.43e3	60.8	NO
4	4	13C8-PFOA	1701820-11RE1 WT1711290845MK 0....	7.70e3	49.8	YES
5	5	13C9-PFNA	1701820-11RE1 WT1711290845MK 0....	8.03e3	48.1	YES
6	6	13C4-PFOS	1701820-11RE1 WT1711290845MK 0....	2.04e3	51.7	NO
7	7	13C6-PFDA	1701820-11RE1 WT1711290845MK 0....	5.31e3	50.2	NO
8	8	13C7-PFUdA	1701820-11RE1 WT1711290845MK 0....	7.82e3	54.2	NO

Name: 180115M2_87, Date: 16-Jan-2018, Time: 17:06:34, ID: IPA, Description: IPA

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

Name: 180115M2_88, Date: 16-Jan-2018, Time: 17:18:06, ID: ST180115M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST180115M2-13 PFC CS3 17L2611	1.53e4	104.3	NO
2	2	13C5-PFHxA	ST180115M2-13 PFC CS3 17L2611	1.68e4	103.9	NO
3	3	13C3-PFHxS	ST180115M2-13 PFC CS3 17L2611	3.90e3	97.8	NO
4	4	13C8-PFOA	ST180115M2-13 PFC CS3 17L2611	1.46e4	94.6	NO
5	5	13C9-PFNA	ST180115M2-13 PFC CS3 17L2611	1.43e4	85.5	NO
6	6	13C4-PFOS	ST180115M2-13 PFC CS3 17L2611	3.94e3	99.8	NO
7	7	13C6-PFDA	ST180115M2-13 PFC CS3 17L2611	9.31e3	88.1	NO
8	8	13C7-PFUdA	ST180115M2-13 PFC CS3 17L2611	1.35e4	93.7	NO

Name: 180115M2_89, Date: 16-Jan-2018, Time: 17:29:33, ID: IPA, Description: IPA

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

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Name: 180115M2_90, Date: 16-Jan-2018, Time: 17:41:00, ID: 1701820-12RE1 WT1711290910MK 0.2463, Description: WT1711290910MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-12RE1 WT1711290910MK 0...	8.87e3	60.3	NO
2	2	13C5-PFHxA	1701820-12RE1 WT1711290910MK 0...	1.02e4	63.3	NO
3	3	13C3-PFHxS	1701820-12RE1 WT1711290910MK 0...	2.57e3	64.3	NO
4	4	13C8-PFOA	1701820-12RE1 WT1711290910MK 0...	8.34e3	54.0	NO
5	5	13C9-PFNA	1701820-12RE1 WT1711290910MK 0...	1.02e4	61.2	NO
6	6	13C4-PFOS	1701820-12RE1 WT1711290910MK 0...	2.55e3	64.7	NO
7	7	13C6-PFDA	1701820-12RE1 WT1711290910MK 0...	5.60e3	52.9	NO
8	8	13C7-PFUDa	1701820-12RE1 WT1711290910MK 0...	8.39e3	58.2	NO

Name: 180115M2_91, Date: 16-Jan-2018, Time: 17:52:26, ID: 1701820-13RE1 WT1711290925MK 0.2633, Description: WT1711290925MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-13RE1 WT1711290925MK 0...	8.39e3	57.1	NO
2	2	13C5-PFHxA	1701820-13RE1 WT1711290925MK 0...	9.82e3	60.8	NO
3	3	13C3-PFHxS	1701820-13RE1 WT1711290925MK 0...	2.29e3	57.3	NO
4	4	13C8-PFOA	1701820-13RE1 WT1711290925MK 0...	7.31e3	47.2	YES
5	5	13C9-PFNA	1701820-13RE1 WT1711290925MK 0...	9.02e3	54.0	NO
6	6	13C4-PFOS	1701820-13RE1 WT1711290925MK 0...	2.93e3	74.2	NO
7	7	13C6-PFDA	1701820-13RE1 WT1711290925MK 0...	5.18e3	49.0	YES
8	8	13C7-PFUDa	1701820-13RE1 WT1711290925MK 0...	6.38e3	44.2	YES

Name: 180115M2_92, Date: 16-Jan-2018, Time: 18:03:53, ID: 1701820-14RE1 WR1711290940MK 0.2514, Description: WR1711290940MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-14RE1 WR1711290940MK 0...	7.97e3	54.2	NO
2	2	13C5-PFHxA	1701820-14RE1 WR1711290940MK 0...	8.88e3	54.9	NO
3	3	13C3-PFHxS	1701820-14RE1 WR1711290940MK 0...	2.36e3	59.2	NO
4	4	13C8-PFOA	1701820-14RE1 WR1711290940MK 0...	8.19e3	53.0	NO
5	5	13C9-PFNA	1701820-14RE1 WR1711290940MK 0...	6.49e3	38.9	YES
6	6	13C4-PFOS	1701820-14RE1 WR1711290940MK 0...	1.81e3	45.7	YES
7	7	13C6-PFDA	1701820-14RE1 WR1711290940MK 0...	4.91e3	46.4	YES
8	8	13C7-PFUDa	1701820-14RE1 WR1711290940MK 0...	6.10e3	42.3	YES

Name: 180115M2_93, Date: 16-Jan-2018, Time: 18:15:20, ID: 1701820-15RE1 WR1711290950MK 0.25988, Description: WR1711290950MK

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701820-15RE1 WR1711290950MK 0...	7.93e3	53.9	NO
2	2	13C5-PFHxA	1701820-15RE1 WR1711290950MK 0...	9.17e3	56.8	NO
3	3	13C3-PFHxS	1701820-15RE1 WR1711290950MK 0...	2.16e3	54.0	NO
4	4	13C8-PFOA	1701820-15RE1 WR1711290950MK 0...	7.75e3	50.1	NO
5	5	13C9-PFNA	1701820-15RE1 WR1711290950MK 0...	7.59e3	45.5	YES
6	6	13C4-PFOS	1701820-15RE1 WR1711290950MK 0...	2.12e3	53.6	NO
7	7	13C6-PFDA	1701820-15RE1 WR1711290950MK 0...	4.98e3	47.1	YES
8	8	13C7-PFUDa	1701820-15RE1 WR1711290950MK 0...	6.57e3	45.5	YES

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Name: 180115M2_94, Date: 16-Jan-2018, Time: 18:26:47, ID: B7L0183-BS1 OPR 0.25, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0183-BS1 OPR 0.25	8.05e3	54.8	NO
2	2 13C5-PFHxA	B7L0183-BS1 OPR 0.25	9.98e3	61.8	NO
3	3 13C3-PFHxS	B7L0183-BS1 OPR 0.25	2.55e3	64.0	NO
4	4 13C8-PFOA	B7L0183-BS1 OPR 0.25	8.04e3	52.0	NO
5	5 13C9-PFNA	B7L0183-BS1 OPR 0.25	8.80e3	52.7	NO
6	6 13C4-PFOS	B7L0183-BS1 OPR 0.25	2.26e3	57.3	NO
7	7 13C6-PFDA	B7L0183-BS1 OPR 0.25	5.36e3	50.7	NO
8	8 13C7-PFUdA	B7L0183-BS1 OPR 0.25	8.71e3	60.3	NO

Name: 180115M2_95, Date: 16-Jan-2018, Time: 18:38:14, ID: B7L0183-BSD1 LCSD 0.25, Description: LCSD

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0183-BSD1 LCSD 0.25	8.13e3	55.3	NO
2	2 13C5-PFHxA	B7L0183-BSD1 LCSD 0.25	8.56e3	53.0	NO
3	3 13C3-PFHxS	B7L0183-BSD1 LCSD 0.25	2.30e3	57.7	NO
4	4 13C8-PFOA	B7L0183-BSD1 LCSD 0.25	8.48e3	54.8	NO
5	5 13C9-PFNA	B7L0183-BSD1 LCSD 0.25	9.65e3	57.8	NO
6	6 13C4-PFOS	B7L0183-BSD1 LCSD 0.25	2.45e3	62.0	NO
7	7 13C6-PFDA	B7L0183-BSD1 LCSD 0.25	5.46e3	51.6	NO
8	8 13C7-PFUdA	B7L0183-BSD1 LCSD 0.25	8.11e3	56.2	NO

Name: 180115M2_96, Date: 16-Jan-2018, Time: 18:49:41, ID: B7L0183-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0183-BLK1 Method Blank 0.25	7.54e3	51.3	NO
2	2 13C5-PFHxA	B7L0183-BLK1 Method Blank 0.25	8.96e3	55.4	NO
3	3 13C3-PFHxS	B7L0183-BLK1 Method Blank 0.25	2.27e3	56.9	NO
4	4 13C8-PFOA	B7L0183-BLK1 Method Blank 0.25	7.98e3	51.6	NO
5	5 13C9-PFNA	B7L0183-BLK1 Method Blank 0.25	9.08e3	54.4	NO
6	6 13C4-PFOS	B7L0183-BLK1 Method Blank 0.25	2.16e3	54.7	NO
7	7 13C6-PFDA	B7L0183-BLK1 Method Blank 0.25	5.18e3	49.0	YES
8	8 13C7-PFUdA	B7L0183-BLK1 Method Blank 0.25	7.86e3	54.5	NO

Name: 180115M2_97, Date: 16-Jan-2018, Time: 19:01:07, ID: 1701953-01@5X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701953-01@5X CV-Dup09-20171213 ...	1.96e3	13.3	YES
2	2 13C5-PFHxA	1701953-01@5X CV-Dup09-20171213 ...	2.14e3	13.3	YES
3	3 13C3-PFHxS	1701953-01@5X CV-Dup09-20171213 ...	5.72e2	14.3	YES
4	4 13C8-PFOA	1701953-01@5X CV-Dup09-20171213 ...	2.07e3	13.4	YES
5	5 13C9-PFNA	1701953-01@5X CV-Dup09-20171213 ...	1.95e3	11.7	YES
6	6 13C4-PFOS	1701953-01@5X CV-Dup09-20171213 ...	5.78e2	14.6	YES
7	7 13C6-PFDA	1701953-01@5X CV-Dup09-20171213 ...	1.35e3	12.8	YES
8	8 13C7-PFUdA	1701953-01@5X CV-Dup09-20171213 ...	1.90e3	13.2	YES

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Name: 180115M2_98, Date: 16-Jan-2018, Time: 19:12:35, ID: 1701953-03@5X SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-03@5X SA-MW126S-201712...	1.59e3	10.8	YES
2	2	13C5-PFHxA	1701953-03@5X SA-MW126S-201712...	1.89e3	11.7	YES
3	3	13C3-PFHxS	1701953-03@5X SA-MW126S-201712...	5.09e2	12.8	YES
4	4	13C8-PFOA	1701953-03@5X SA-MW126S-201712...	1.28e3	8.3	YES
5	5	13C9-PFNA	1701953-03@5X SA-MW126S-201712...	1.48e3	8.9	YES
6	6	13C4-PFOS	1701953-03@5X SA-MW126S-201712...	3.75e2	9.5	YES
7	7	13C6-PFDA	1701953-03@5X SA-MW126S-201712...	9.50e2	9.0	YES
8	8	13C7-PFUdA	1701953-03@5X SA-MW126S-201712...	1.44e3	10.0	YES

Name: 180115M2_99, Date: 16-Jan-2018, Time: 19:24:01, ID: 1701953-08@5X SA-PZ123I-20171213 0.25702, Description: SA-PZ123I-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-08@5X SA-PZ123I-20171213...	1.68e3	11.4	YES
2	2	13C5-PFHxA	1701953-08@5X SA-PZ123I-20171213...	1.84e3	11.4	YES
3	3	13C3-PFHxS	1701953-08@5X SA-PZ123I-20171213...	4.63e2	11.6	YES
4	4	13C8-PFOA	1701953-08@5X SA-PZ123I-20171213...	1.67e3	10.8	YES
5	5	13C9-PFNA	1701953-08@5X SA-PZ123I-20171213...	1.82e3	10.9	YES
6	6	13C4-PFOS	1701953-08@5X SA-PZ123I-20171213...	5.38e2	13.6	YES
7	7	13C6-PFDA	1701953-08@5X SA-PZ123I-20171213...	9.33e2	8.8	YES
8	8	13C7-PFUdA	1701953-08@5X SA-PZ123I-20171213...	1.47e3	10.2	YES

Name: 180115M2_100, Date: 16-Jan-2018, Time: 19:35:28, ID: 1701953-09@5X SA-PZ123I1-20171213 0.25747, Description: SA-PZ123I1-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-09@5X SA-PZ123I1-2017121...	1.87e3	12.7	YES
2	2	13C5-PFHxA	1701953-09@5X SA-PZ123I1-2017121...	2.14e3	13.3	YES
3	3	13C3-PFHxS	1701953-09@5X SA-PZ123I1-2017121...	5.16e2	12.9	YES
4	4	13C8-PFOA	1701953-09@5X SA-PZ123I1-2017121...	1.72e3	11.1	YES
5	5	13C9-PFNA	1701953-09@5X SA-PZ123I1-2017121...	1.93e3	11.6	YES
6	6	13C4-PFOS	1701953-09@5X SA-PZ123I1-2017121...	5.72e2	14.5	YES
7	7	13C6-PFDA	1701953-09@5X SA-PZ123I1-2017121...	1.47e3	13.9	YES
8	8	13C7-PFUdA	1701953-09@5X SA-PZ123I1-2017121...	1.69e3	11.7	YES

Name: 180115M2_101, Date: 16-Jan-2018, Time: 19:46:55, ID: 1701953-10@5X SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-10@5X SA-PZ118S-2017121...	1.66e3	11.3	YES
2	2	13C5-PFHxA	1701953-10@5X SA-PZ118S-2017121...	1.89e3	11.7	YES
3	3	13C3-PFHxS	1701953-10@5X SA-PZ118S-2017121...	5.33e2	13.4	YES
4	4	13C8-PFOA	1701953-10@5X SA-PZ118S-2017121...	1.73e3	11.2	YES
5	5	13C9-PFNA	1701953-10@5X SA-PZ118S-2017121...	1.76e3	10.5	YES
6	6	13C4-PFOS	1701953-10@5X SA-PZ118S-2017121...	5.21e2	13.2	YES
7	7	13C6-PFDA	1701953-10@5X SA-PZ118S-2017121...	1.20e3	11.4	YES
8	8	13C7-PFUdA	1701953-10@5X SA-PZ118S-2017121...	1.40e3	9.7	YES

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Name: 180115M2_102, Date: 16-Jan-2018, Time: 19:58:22, ID: 1701953-01 CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-01 CV-Dup09-20171213 0.2568	7.80e3	53.0	NO
2	2	13C5-PFHxA	1701953-01 CV-Dup09-20171213 0.2568	8.45e3	52.3	NO
3	3	13C3-PFHxS	1701953-01 CV-Dup09-20171213 0.2568	2.20e3	55.2	NO
4	4	13C8-PFOA	1701953-01 CV-Dup09-20171213 0.2568	7.05e3	45.6	YES
5	5	13C9-PFNA	1701953-01 CV-Dup09-20171213 0.2568	7.02e3	42.1	YES
6	6	13C4-PFOS	1701953-01 CV-Dup09-20171213 0.2568	2.17e3	55.0	NO
7	7	13C6-PFDA	1701953-01 CV-Dup09-20171213 0.2568	4.47e3	42.3	YES
8	8	13C7-PFUdA	1701953-01 CV-Dup09-20171213 0.2568	6.50e3	45.1	YES

Name: 180115M2_103, Date: 16-Jan-2018, Time: 20:09:49, ID: 1701953-02 SA-MW127S-20171213 0.23624, Description: SA-MW127S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-02 SA-MW127S-20171213 0....	7.59e3	51.6	NO
2	2	13C5-PFHxA	1701953-02 SA-MW127S-20171213 0....	8.23e3	50.9	NO
3	3	13C3-PFHxS	1701953-02 SA-MW127S-20171213 0....	2.40e3	60.1	NO
4	4	13C8-PFOA	1701953-02 SA-MW127S-20171213 0....	8.10e3	52.4	NO
5	5	13C9-PFNA	1701953-02 SA-MW127S-20171213 0....	7.20e3	43.1	YES
6	6	13C4-PFOS	1701953-02 SA-MW127S-20171213 0....	2.00e3	50.7	NO
7	7	13C6-PFDA	1701953-02 SA-MW127S-20171213 0....	4.12e3	39.0	YES
8	8	13C7-PFUdA	1701953-02 SA-MW127S-20171213 0....	6.07e3	42.1	YES

Name: 180115M2_104, Date: 16-Jan-2018, Time: 20:21:16, ID: IPA, Description: IPA

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

Name: 180115M2_105, Date: 16-Jan-2018, Time: 20:32:42, ID: ST180115M2-14 PFC CS0 17L2608, Description: PFC CS0 17L2608

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST180115M2-14 PFC CS0 17L2608	1.82e4	123.8	NO
2	2	13C5-PFHxA	ST180115M2-14 PFC CS0 17L2608	1.90e4	117.7	NO
3	3	13C3-PFHxS	ST180115M2-14 PFC CS0 17L2608	4.67e3	117.1	NO
4	4	13C8-PFOA	ST180115M2-14 PFC CS0 17L2608	1.83e4	118.4	NO
5	5	13C9-PFNA	ST180115M2-14 PFC CS0 17L2608	1.92e4	114.8	NO
6	6	13C4-PFOS	ST180115M2-14 PFC CS0 17L2608	4.58e3	115.9	NO
7	7	13C6-PFDA	ST180115M2-14 PFC CS0 17L2608	1.13e4	107.2	NO
8	8	13C7-PFUdA	ST180115M2-14 PFC CS0 17L2608	1.56e4	108.1	NO

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Name: 180115M2_106, Date: 16-Jan-2018, Time: 20:44:08, ID: IPA, Description: IPA

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

Name: 180115M2_107, Date: 16-Jan-2018, Time: 20:55:35, ID: 1701953-03 SA-MW126S-20171213 0.24287, Description: SA-MW126S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-03 SA-MW126S-20171213 0....	7.45e3	50.7	NO
2	2	13C5-PFHxA	1701953-03 SA-MW126S-20171213 0....	8.66e3	53.6	NO
3	3	13C3-PFHxS	1701953-03 SA-MW126S-20171213 0....	2.35e3	58.9	NO
4	4	13C8-PFOA	1701953-03 SA-MW126S-20171213 0....	7.54e3	48.8	YES
5	5	13C9-PFNA	1701953-03 SA-MW126S-20171213 0....	8.07e3	48.4	YES
6	6	13C4-PFOS	1701953-03 SA-MW126S-20171213 0....	2.31e3	58.5	NO
7	7	13C6-PFDA	1701953-03 SA-MW126S-20171213 0....	4.58e3	43.3	YES
8	8	13C7-PFUdA	1701953-03 SA-MW126S-20171213 0....	8.14e3	56.4	NO

Name: 180115M2_108, Date: 16-Jan-2018, Time: 21:07:02, ID: 1701953-04 SA-MW126I-20171213 0.24106, Description: SA-MW126I-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-04 SA-MW126I-20171213 0.2...	7.69e3	52.3	NO
2	2	13C5-PFHxA	1701953-04 SA-MW126I-20171213 0.2...	8.59e3	53.2	NO
3	3	13C3-PFHxS	1701953-04 SA-MW126I-20171213 0.2...	2.55e3	63.8	NO
4	4	13C8-PFOA	1701953-04 SA-MW126I-20171213 0.2...	7.39e3	47.8	YES
5	5	13C9-PFNA	1701953-04 SA-MW126I-20171213 0.2...	8.50e3	51.0	NO
6	6	13C4-PFOS	1701953-04 SA-MW126I-20171213 0.2...	2.51e3	63.7	NO
7	7	13C6-PFDA	1701953-04 SA-MW126I-20171213 0.2...	5.24e3	49.5	YES
8	8	13C7-PFUdA	1701953-04 SA-MW126I-20171213 0.2...	7.43e3	51.5	NO

Name: 180115M2_109, Date: 16-Jan-2018, Time: 21:18:29, ID: 1701953-06 SA-Dup10-20171213 0.25769, Description: SA-Dup10-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-06 SA-Dup10-20171213 0.25...	8.55e3	58.2	NO
2	2	13C5-PFHxA	1701953-06 SA-Dup10-20171213 0.25...	9.14e3	56.6	NO
3	3	13C3-PFHxS	1701953-06 SA-Dup10-20171213 0.25...	2.43e3	60.8	NO
4	4	13C8-PFOA	1701953-06 SA-Dup10-20171213 0.25...	8.71e3	56.3	NO
5	5	13C9-PFNA	1701953-06 SA-Dup10-20171213 0.25...	7.33e3	43.9	YES
6	6	13C4-PFOS	1701953-06 SA-Dup10-20171213 0.25...	2.60e3	65.9	NO
7	7	13C6-PFDA	1701953-06 SA-Dup10-20171213 0.25...	5.66e3	53.5	NO
8	8	13C7-PFUdA	1701953-06 SA-Dup10-20171213 0.25...	7.06e3	48.9	YES

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Name: 180115M2_110, Date: 16-Jan-2018, Time: 21:29:55, ID: 1701953-07 SA-PZ123S-20171213 0.24245,
Description: SA-PZ123S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-07 SA-PZ123S-20171213 0.2...	9.38e3	63.8	NO
2	2	13C5-PFHxA	1701953-07 SA-PZ123S-20171213 0.2...	9.97e3	61.7	NO
3	3	13C3-PFHxS	1701953-07 SA-PZ123S-20171213 0.2...	2.54e3	63.8	NO
4	4	13C8-PFOA	1701953-07 SA-PZ123S-20171213 0.2...	8.80e3	56.9	NO
5	5	13C9-PFNA	1701953-07 SA-PZ123S-20171213 0.2...	9.80e3	58.7	NO
6	6	13C4-PFOS	1701953-07 SA-PZ123S-20171213 0.2...	2.70e3	68.3	NO
7	7	13C6-PFDA	1701953-07 SA-PZ123S-20171213 0.2...	5.50e3	52.0	NO
8	8	13C7-PFUdA	1701953-07 SA-PZ123S-20171213 0.2...	8.48e3	58.7	NO

Name: 180115M2_111, Date: 16-Jan-2018, Time: 21:41:23, ID: 1701953-08 SA-PZ123I-20171213 0.25702,
Description: SA-PZ123I-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-08 SA-PZ123I-20171213 0.25...	7.47e3	50.8	NO
2	2	13C5-PFHxA	1701953-08 SA-PZ123I-20171213 0.25...	8.21e3	50.8	NO
3	3	13C3-PFHxS	1701953-08 SA-PZ123I-20171213 0.25...	2.41e3	60.4	NO
4	4	13C8-PFOA	1701953-08 SA-PZ123I-20171213 0.25...	7.57e3	49.0	YES
5	5	13C9-PFNA	1701953-08 SA-PZ123I-20171213 0.25...	7.44e3	44.6	YES
6	6	13C4-PFOS	1701953-08 SA-PZ123I-20171213 0.25...	2.34e3	59.3	NO
7	7	13C6-PFDA	1701953-08 SA-PZ123I-20171213 0.25...	5.67e3	53.6	NO
8	8	13C7-PFUdA	1701953-08 SA-PZ123I-20171213 0.25...	6.94e3	48.1	YES

Name: 180115M2_112, Date: 16-Jan-2018, Time: 21:52:49, ID: 1701953-09 SA-PZ123I1-20171213 0.25747,
Description: SA-PZ123I1-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-09 SA-PZ123I1-20171213 0.2...	8.80e3	59.9	NO
2	2	13C5-PFHxA	1701953-09 SA-PZ123I1-20171213 0.2...	1.01e4	62.7	NO
3	3	13C3-PFHxS	1701953-09 SA-PZ123I1-20171213 0.2...	2.41e3	60.5	NO
4	4	13C8-PFOA	1701953-09 SA-PZ123I1-20171213 0.2...	8.17e3	52.8	NO
5	5	13C9-PFNA	1701953-09 SA-PZ123I1-20171213 0.2...	8.54e3	51.2	NO
6	6	13C4-PFOS	1701953-09 SA-PZ123I1-20171213 0.2...	2.34e3	59.2	NO
7	7	13C6-PFDA	1701953-09 SA-PZ123I1-20171213 0.2...	5.20e3	49.2	YES
8	8	13C7-PFUdA	1701953-09 SA-PZ123I1-20171213 0.2...	7.00e3	48.5	YES

Name: 180115M2_113, Date: 16-Jan-2018, Time: 22:04:16, ID: 1701953-10 SA-PZ118S-20171213 0.23505,
Description: SA-PZ118S-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-10 SA-PZ118S-20171213 0.2...	7.55e3	51.4	NO
2	2	13C5-PFHxA	1701953-10 SA-PZ118S-20171213 0.2...	8.93e3	55.3	NO
3	3	13C3-PFHxS	1701953-10 SA-PZ118S-20171213 0.2...	2.39e3	59.8	NO
4	4	13C8-PFOA	1701953-10 SA-PZ118S-20171213 0.2...	8.33e3	53.8	NO
5	5	13C9-PFNA	1701953-10 SA-PZ118S-20171213 0.2...	9.02e3	54.0	NO
6	6	13C4-PFOS	1701953-10 SA-PZ118S-20171213 0.2...	2.25e3	57.1	NO
7	7	13C6-PFDA	1701953-10 SA-PZ118S-20171213 0.2...	5.14e3	48.6	YES
8	8	13C7-PFUdA	1701953-10 SA-PZ118S-20171213 0.2...	6.48e3	44.9	YES

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Name: 180115M2_114, Date: 16-Jan-2018, Time: 22:15:43, ID: 1701953-11 SA-PZ118I-20171213 0.24112,
Description: SA-PZ118I-20171213

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701953-11 SA-PZ118I-20171213 0.24...	8.06e3	54.8	NO
2	2	13C5-PFHxA	1701953-11 SA-PZ118I-20171213 0.24...	9.08e3	56.2	NO
3	3	13C3-PFHxS	1701953-11 SA-PZ118I-20171213 0.24...	2.32e3	58.1	NO
4	4	13C8-PFOA	1701953-11 SA-PZ118I-20171213 0.24...	8.03e3	51.9	NO
5	5	13C9-PFNA	1701953-11 SA-PZ118I-20171213 0.24...	9.48e3	56.8	NO
6	6	13C4-PFOS	1701953-11 SA-PZ118I-20171213 0.24...	2.22e3	56.3	NO
7	7	13C6-PFDA	1701953-11 SA-PZ118I-20171213 0.24...	4.60e3	43.5	YES
8	8	13C7-PFUdA	1701953-11 SA-PZ118I-20171213 0.24...	6.27e3	43.5	YES

Name: 180115M2_115, Date: 16-Jan-2018, Time: 22:27:10, ID: IPA, Description: IPA

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

Name: 180115M2_116, Date: 16-Jan-2018, Time: 22:38:37, ID: 1701905-04RE1 WR1712070930JNR 0.25,
Description: WR1712070930JNR

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701905-04RE1 WR1712070930JNR 0...	8.37e3	57.0	NO
2	2	13C5-PFHxA	1701905-04RE1 WR1712070930JNR 0...	8.28e3	51.2	NO
3	3	13C3-PFHxS	1701905-04RE1 WR1712070930JNR 0...	2.27e3	57.0	NO
4	4	13C8-PFOA	1701905-04RE1 WR1712070930JNR 0...	6.97e3	45.1	YES
5	5	13C9-PFNA	1701905-04RE1 WR1712070930JNR 0...	7.03e3	42.1	YES
6	6	13C4-PFOS	1701905-04RE1 WR1712070930JNR 0...	2.15e3	54.4	NO
7	7	13C6-PFDA	1701905-04RE1 WR1712070930JNR 0...	4.41e3	41.7	YES
8	8	13C7-PFUdA	1701905-04RE1 WR1712070930JNR 0...	8.03e3	55.6	NO

Name: 180115M2_117, Date: 16-Jan-2018, Time: 22:50:04, ID: ST180115M2-15 PFC CS3 17L2611, Description: PFC CS3 17L2611

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	ST180115M2-15 PFC CS3 17L2611	1.83e4	124.8	NO
2	2	13C5-PFHxA	ST180115M2-15 PFC CS3 17L2611	2.07e4	128.2	NO
3	3	13C3-PFHxS	ST180115M2-15 PFC CS3 17L2611	4.70e3	117.9	NO
4	4	13C8-PFOA	ST180115M2-15 PFC CS3 17L2611	1.95e4	126.3	NO
5	5	13C9-PFNA	ST180115M2-15 PFC CS3 17L2611	1.63e4	97.7	NO
6	6	13C4-PFOS	ST180115M2-15 PFC CS3 17L2611	4.34e3	109.9	NO
7	7	13C6-PFDA	ST180115M2-15 PFC CS3 17L2611	1.25e4	118.1	NO
8	8	13C7-PFUdA	ST180115M2-15 PFC CS3 17L2611	1.65e4	114.3	NO

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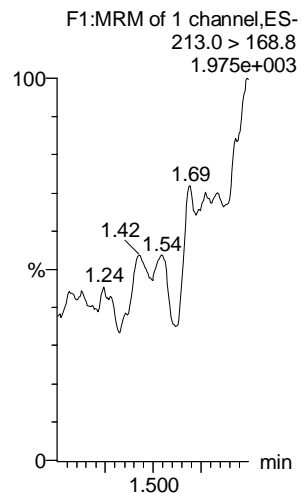
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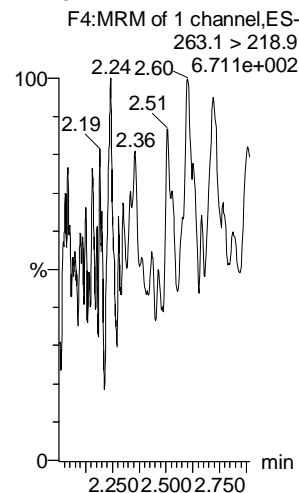
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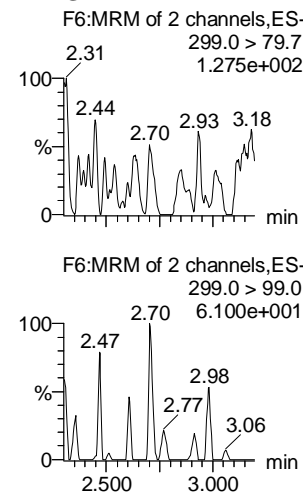
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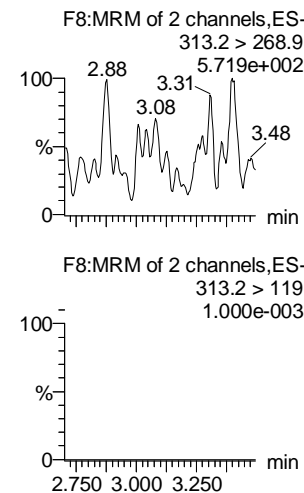
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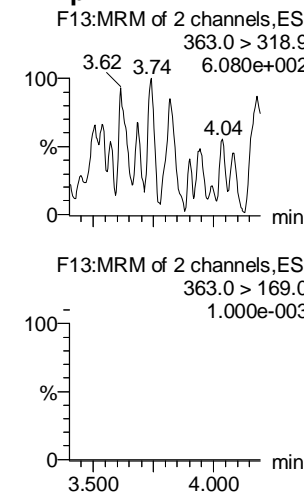
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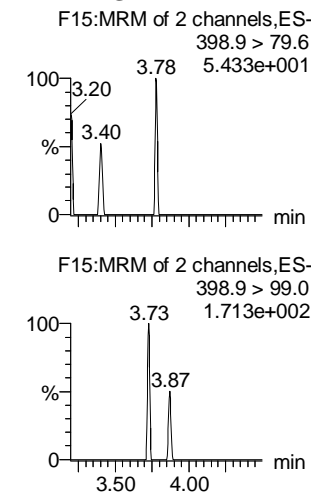
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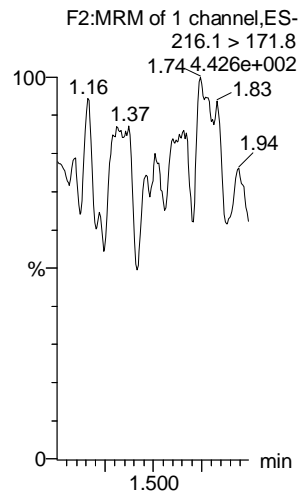
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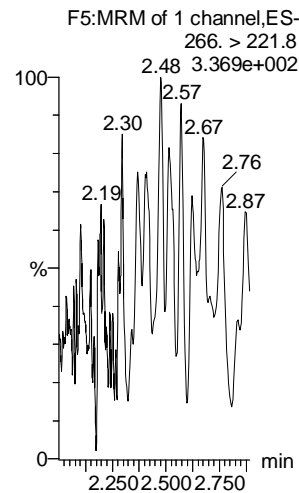
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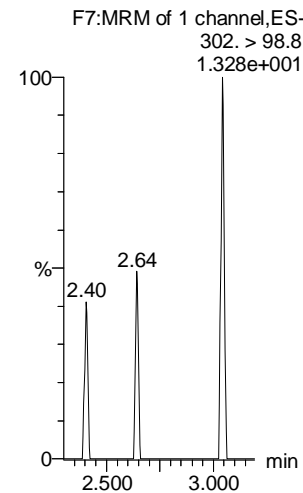
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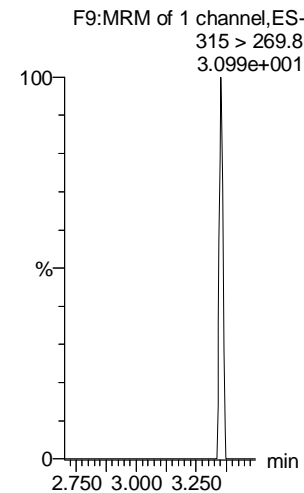
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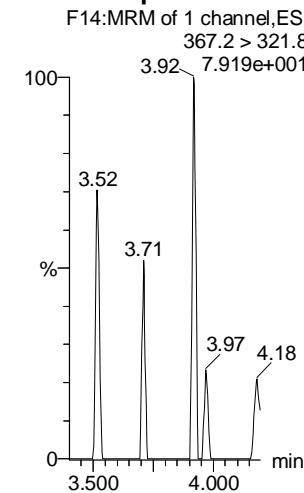
13C3-PFBS



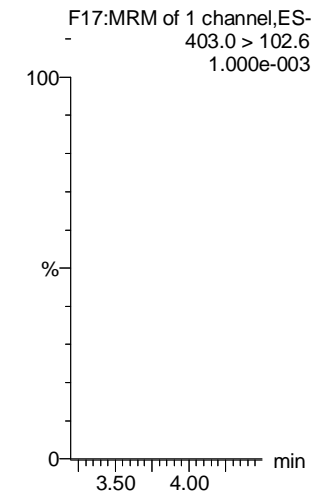
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



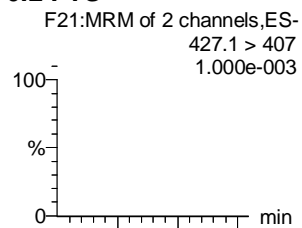
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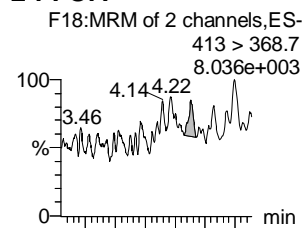
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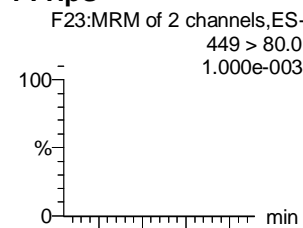
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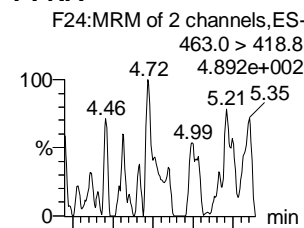
L-PFOA



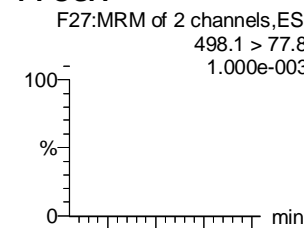
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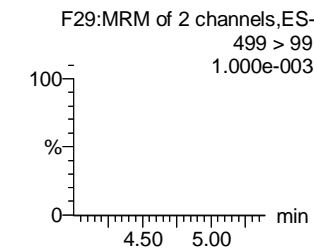
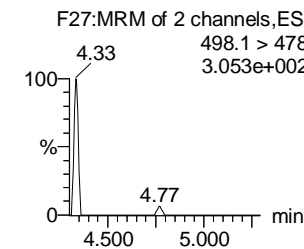
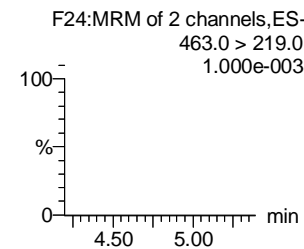
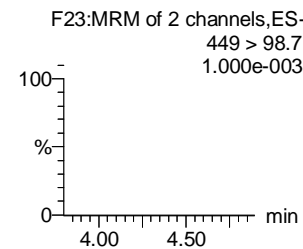
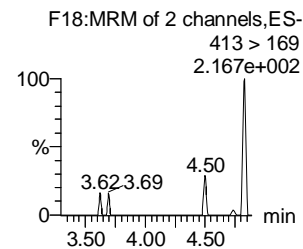
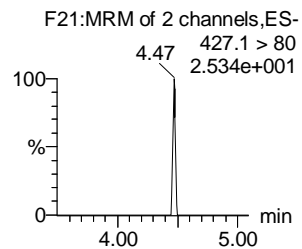
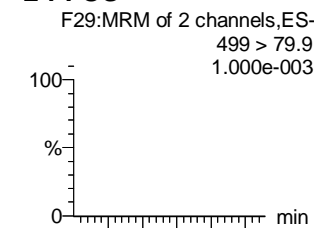
PFNA



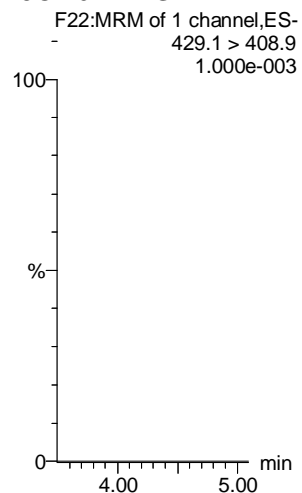
PFOSA



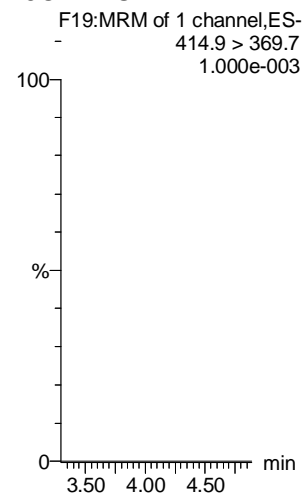
L-PFOS



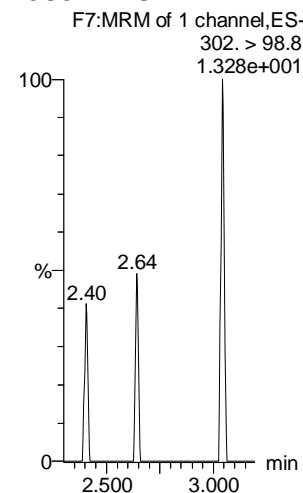
13C2-6:2 FTS



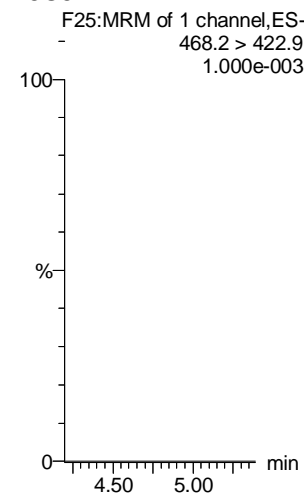
13C2-PFOA



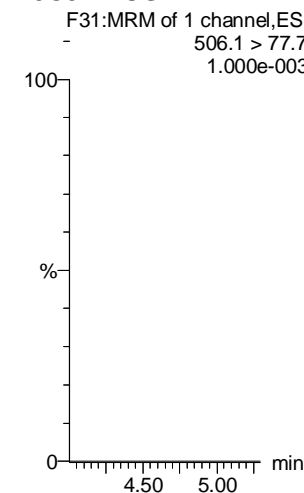
13C3-PFBS



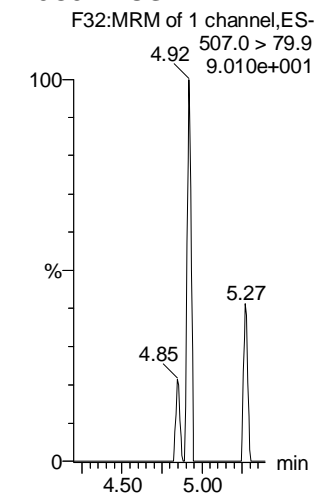
13C5-PFNA



13C8-PFOSA



13C8-PFOS



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

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

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

PFDA

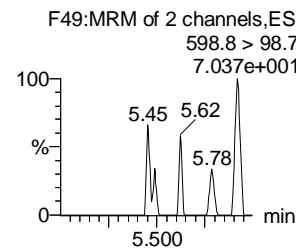
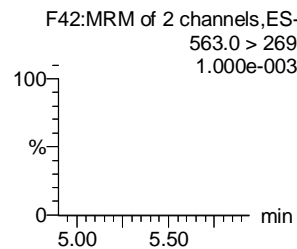
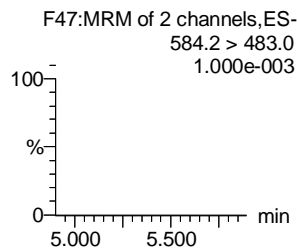
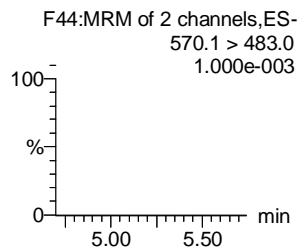
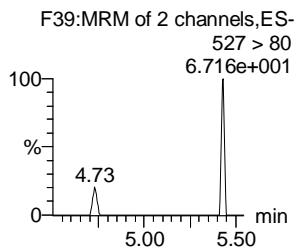
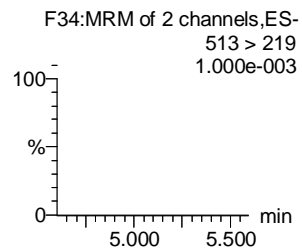
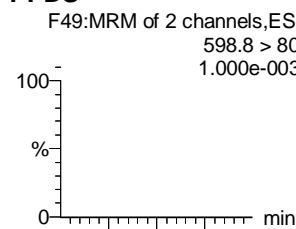
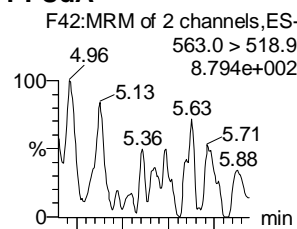
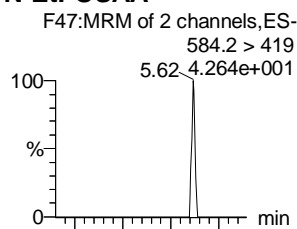
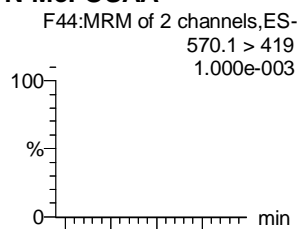
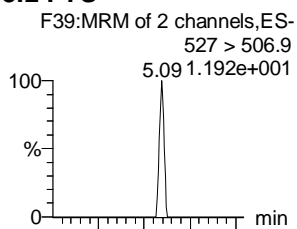
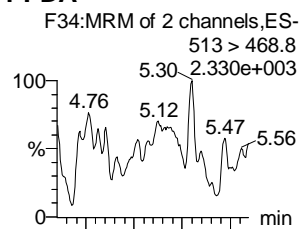
8:2 FTS

N-MeFOSAA

N-EtFOSAA

PFUdA

PFDS



13C2-PFDA

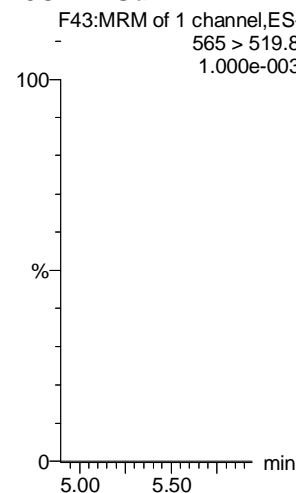
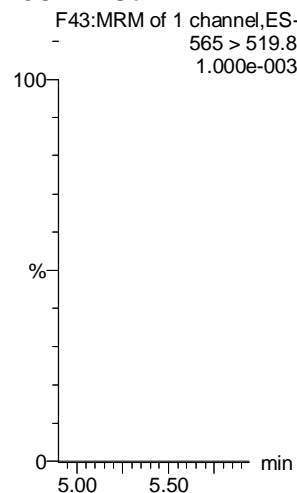
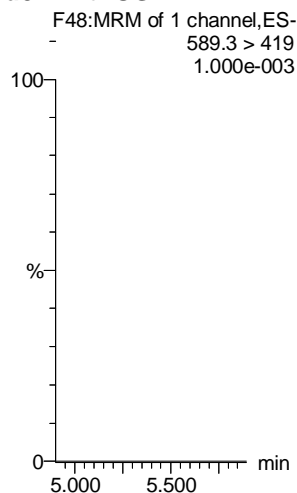
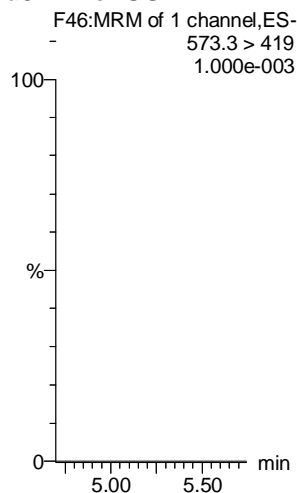
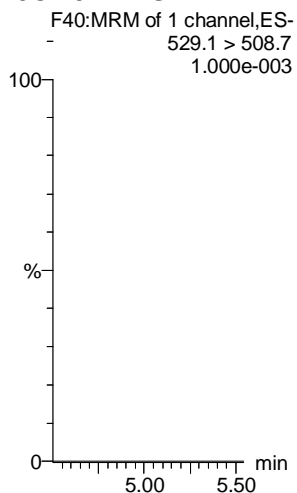
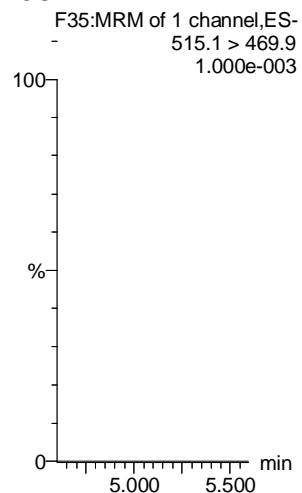
13C2-8:2 FTS

d3-N-MeFOSAA

d5-N-EtFOSAA

13C2-PFUdA

13C2-PFUdA



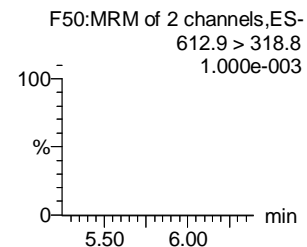
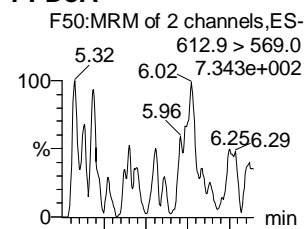
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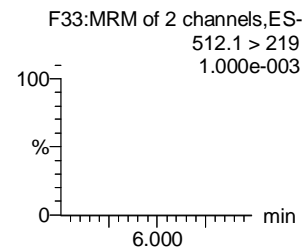
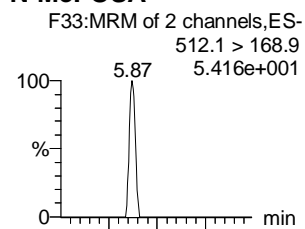
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Name: 180115M1_3, Date: 15-Jan-2018, Time: 10:52:47, ID: IPA, Description: IPA

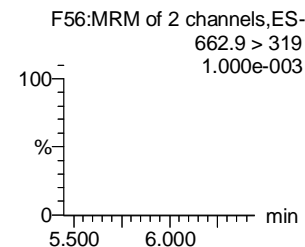
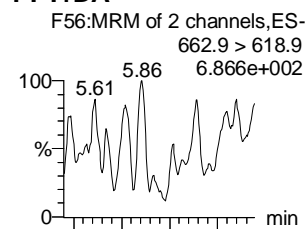
PFDaA



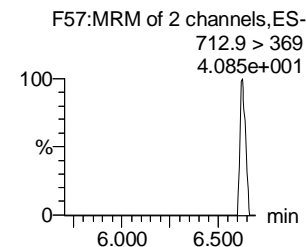
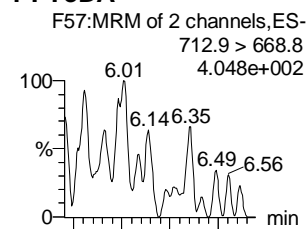
N-MeFOSA



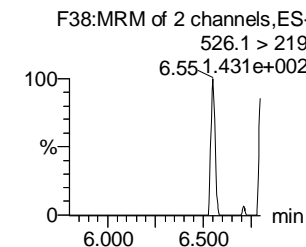
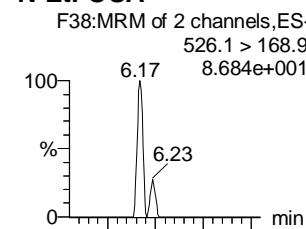
PFTrDA



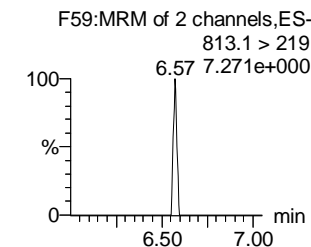
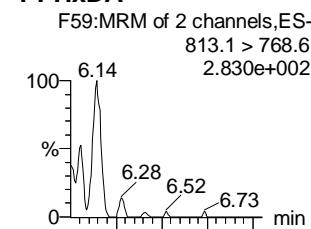
PFTeDA



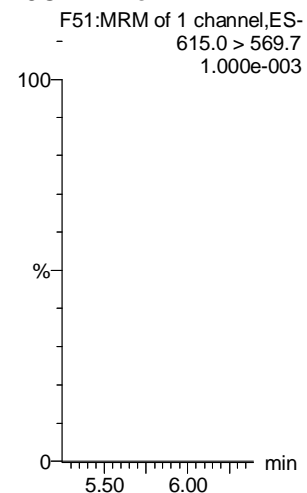
N-EtFOSA



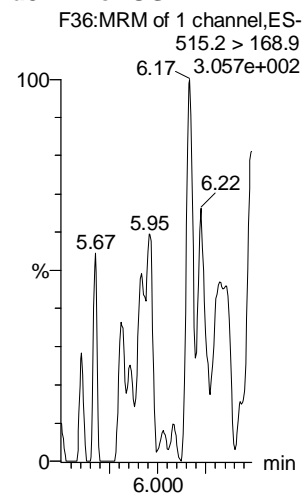
PFHxDA



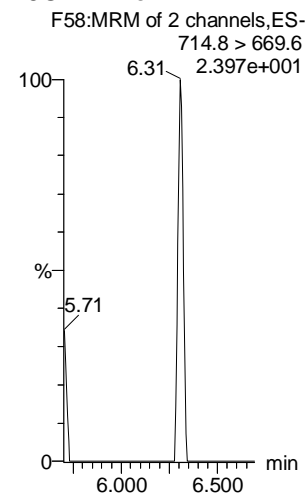
13C2-PFDaA



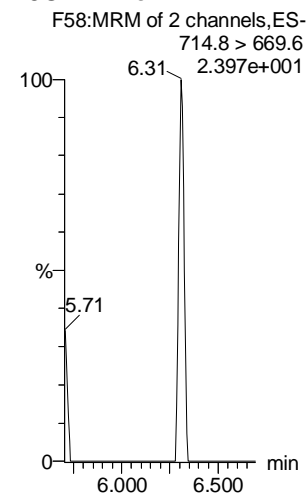
d3-N-MeFOSA



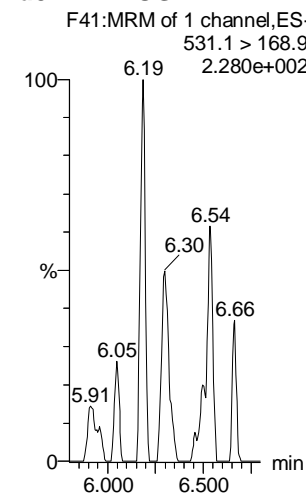
13C2-PFTeDA



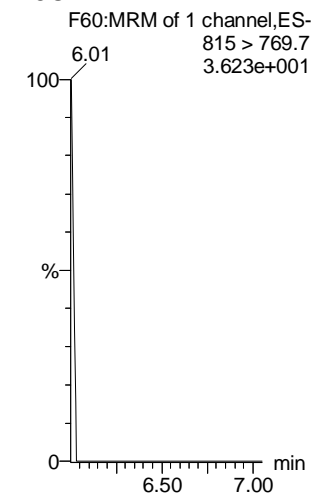
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



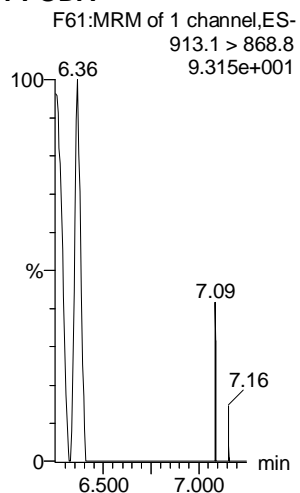
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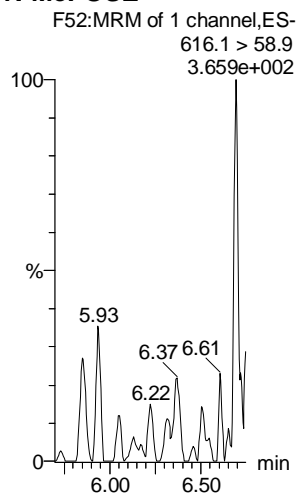
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Name: 180115M1_3, Date: 15-Jan-2018, Time: 10:52:47, ID: IPA, Description: IPA

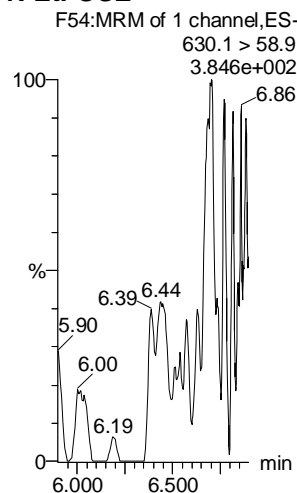
PFODA



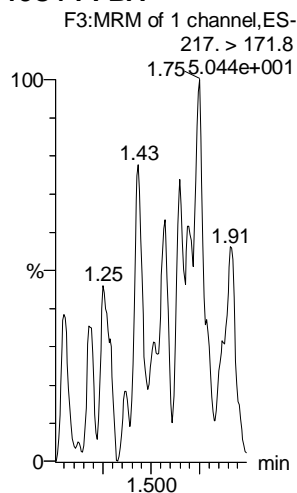
N-MeFOSE



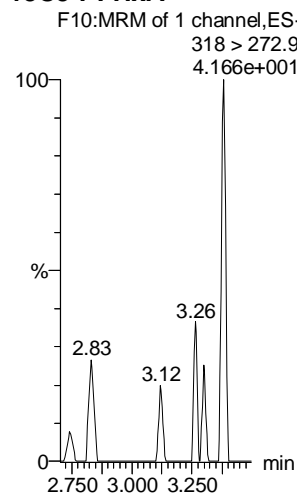
N-EtFOSE



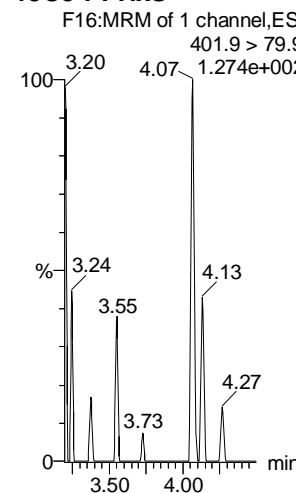
13C4-PFBA



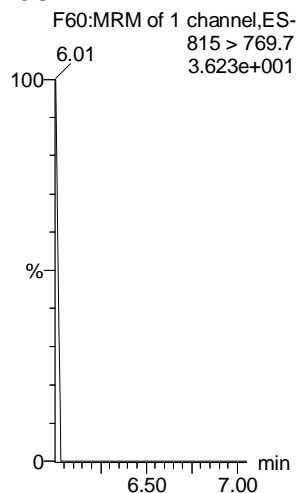
13C5-PFHxA



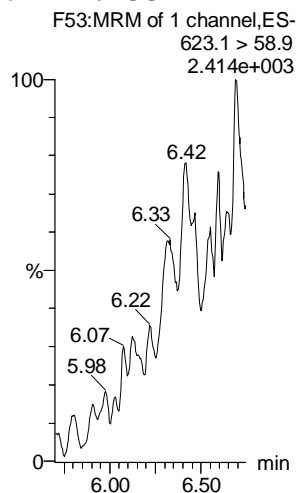
13C3-PFHxS



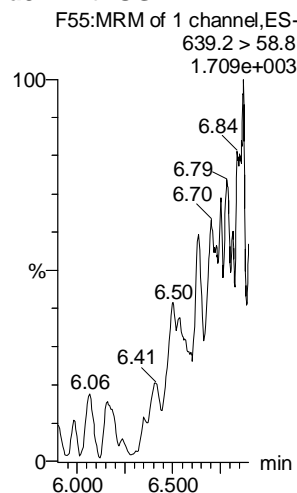
13C2-PFHxDA



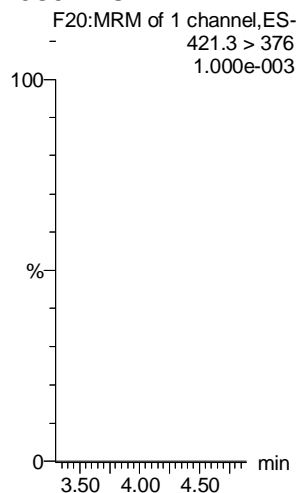
d7-N-MeFOSE



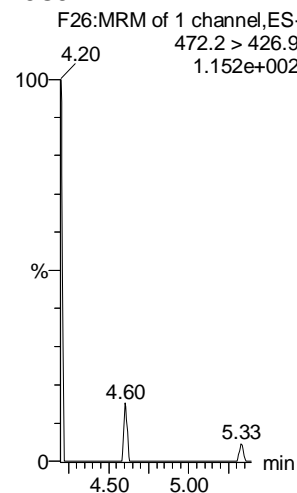
d9-N-EtFOSE



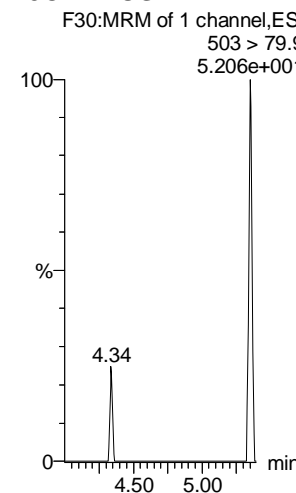
13C8-PFOA



13C9-PFNA



13C4-PFOS



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

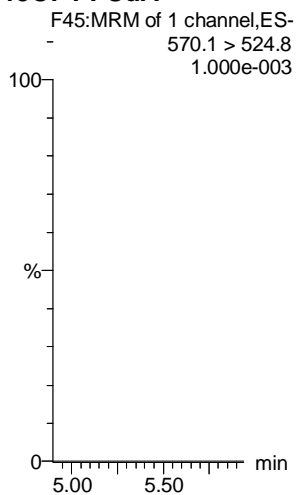
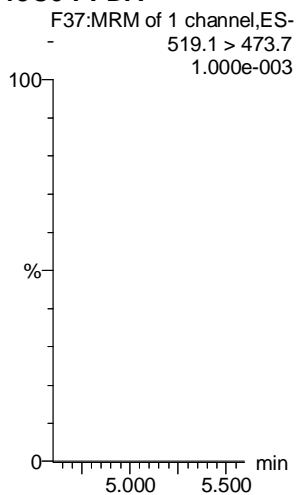
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Printed: Monday, January 15, 2018 13:35:38 Pacific Standard Time

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

13C6-PFDA

13C7-PFUdA



PFDoA
 (A) PFDS > 130%

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

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

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

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

AC
 1/16/18

JJA
 01/16/2018

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

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

70-130

50-150

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

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

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

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

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.05e4	1.78e4	1.0000	0.621	4.00	3.85	7.39	11.904	95.2
33	36 18O2-PFHxS	403.0 > 102.6	1.18e3	4.51e3	1.0000	0.336	4.14	4.00	3.27	9.742	77.9
34	37 13C2-6:2 FTS	429.1 > 408.9	3.09e3	1.33e4	1.0000	0.192	4.46	4.31	2.91	15.115	120.9
35	38 13C2-PFOA	414.9 > 369.7	1.46e4	1.33e4	1.0000	1.001	4.50	4.37	13.7	13.692	109.5
36	39 13C5-PFNA	468.2 > 422.9	1.18e4	1.40e4	1.0000	0.811	4.94	4.80	10.5	12.998	104.0
37	40 13C8-PFOSA	506.1 > 77.7	3.04e3	1.63e4	1.0000	0.196	5.00	4.86	2.32	11.824	94.6
38	41 13C8-PFOS	507.0 > 79.9	3.32e3	3.96e3	1.0000	0.862	5.02	4.87	10.5	12.188	97.5
39	42 13C2-PFDA	515.1 > 469.9	1.18e4	1.08e4	1.0000	0.996	5.31	5.17	13.6	13.690	109.5
40	43 13C2-8:2 FTS	529.1 > 508.7	1.70e3	1.78e4	1.0000	0.103	5.28	5.14	1.20	11.640	93.1
41	44 d3-N-MeFOSAA	573.3 > 419	5.54e3	1.63e4	1.0000	0.340	5.45	5.31	4.24	12.466	99.7
42	45 d5-N-EiFOSAA	589.3 > 419	5.85e3	1.63e4	1.0000	0.377	5.60	5.47	4.48	11.877	95.0
43	46 13C2-PFUdA	565 > 519.8	1.45e4	1.63e4	1.0000	0.944	5.62	5.49	11.1	11.780	94.2
44	47 13C2-PFDoA	615.0 > 569.7	1.04e4	1.63e4	1.0000	0.726	5.91	5.77	7.93	10.916	87.3
45	48 d3-N-MeFOSA	515.2 > 168.9	2.38e4	1.63e4	1.0000	0.119	5.87	5.86	18.2	152.924	101.9
46	49 13C2-PFTeDA	714.8 > 669.6	5.64e3	1.63e4	1.0000	0.371	6.35	6.22	4.31	11.607	92.9
47	50 d5-N-ETFOSA	531.1 > 168.9	3.45e4	1.63e4	1.0000	0.174	6.25	6.21	26.4	152.100	101.4
48	51 13C2-PFHxDA	815 > 769.7	3.41e3	1.63e4	1.0000	0.559	6.64	6.53	2.61	4.667	93.3
49	52 d7-N-MeFOSE	623.1 > 58.9	3.32e4	1.63e4	1.0000	0.179	6.31	6.29	25.4	141.415	94.3
50	53 d9-N-EiFOSE	639.2 > 58.8	3.42e4	1.63e4	1.0000	0.160	6.45	6.44	26.2	163.978	109.3
51	54 13C4-PFBA	217. > 171.8	1.55e4	1.55e4	1.0000	1.000	1.64	1.51	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.78e4	1.78e4	1.0000	1.000	3.36	3.24	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.51e3	4.51e3	1.0000	1.000	4.14	4.00	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.33e4	1.33e4	1.0000	1.000	4.50	4.36	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.40e4	1.40e4	1.0000	1.000	4.94	4.80	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.96e3	3.96e3	1.0000	1.000	5.02	4.87	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.08e4	1.08e4	1.0000	1.000	5.31	5.17	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.63e4	1.63e4	1.0000	1.000	5.62	5.49	12.5	12.500	100.0

50-150



Dataset: Untitled

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

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

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

Compound name: PFBA

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

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Compound name: PFBA

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

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Compound name: PFBA

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

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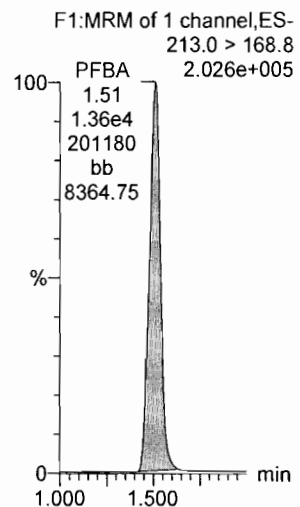
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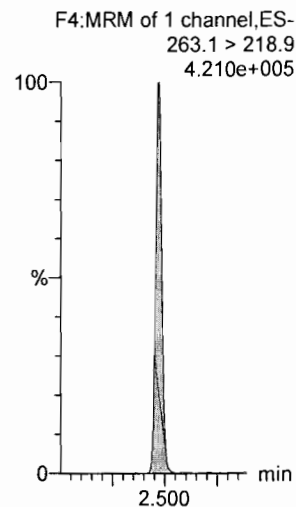
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Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

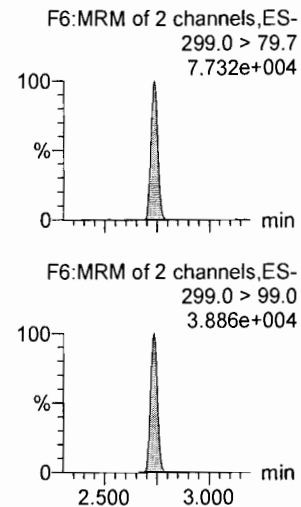
PFBA



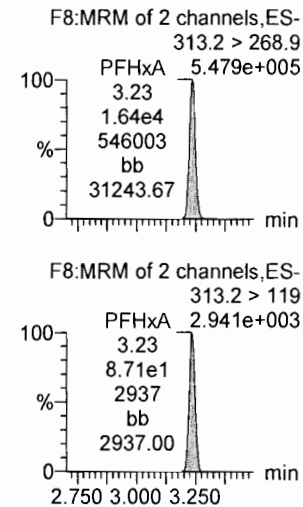
PFPeA



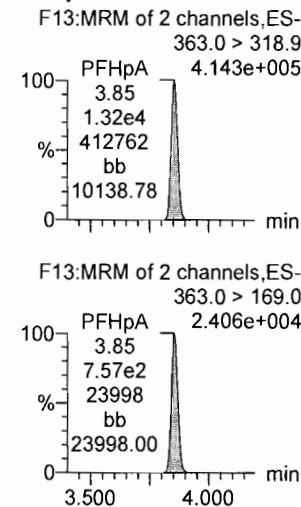
PFBS



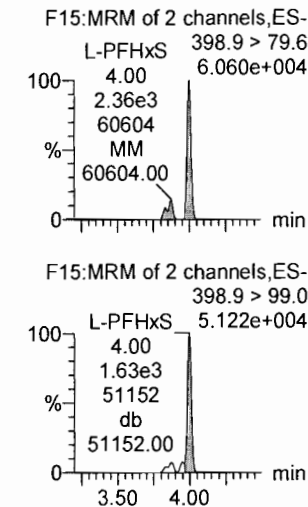
PFHxA



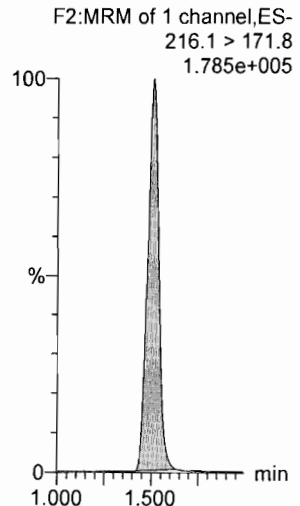
PFHpA



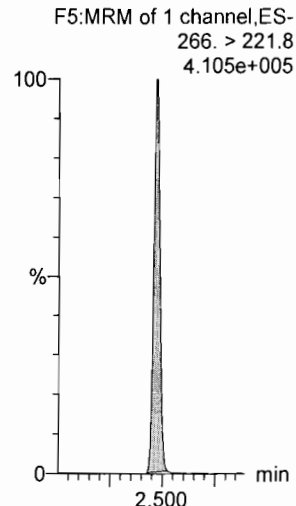
L-PFHxS



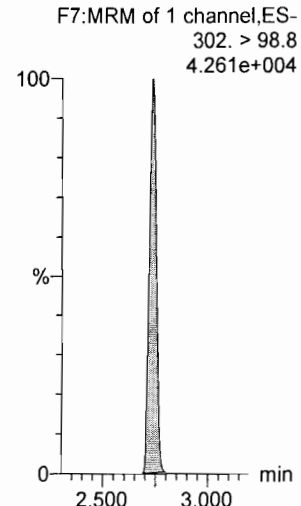
13C3-PFBA



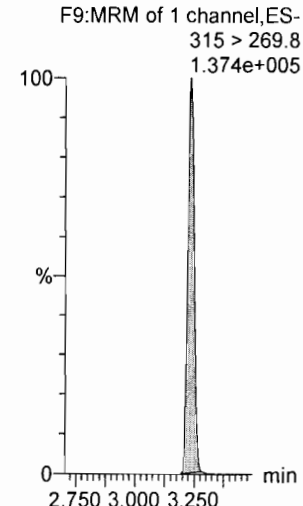
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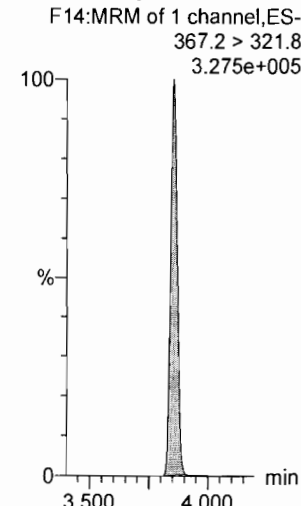
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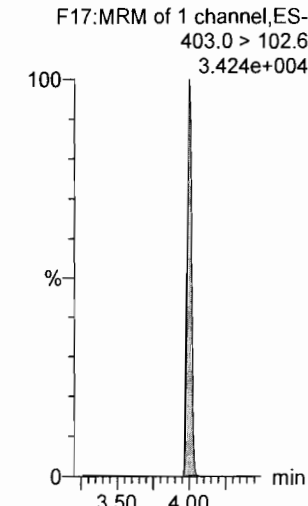
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



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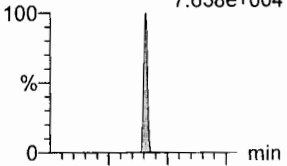
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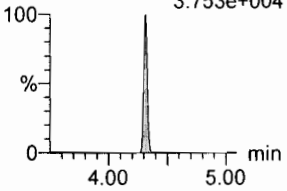
Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

6:2 FTS

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

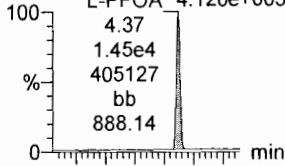


F21:MRM of 2 channels,ES-
427.1 > 80
3.753e+004

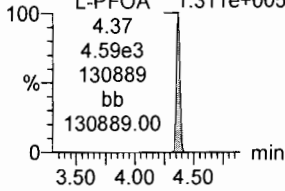


L-PFOA

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

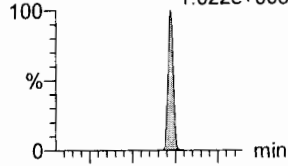


F18:MRM of 2 channels,ES-
413 > 169
1.311e+005

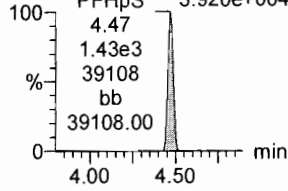


PFHpS

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

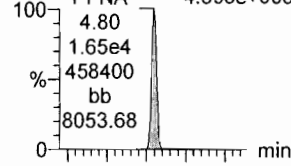


F23:MRM of 2 channels,ES-
449 > 98.7
3.920e+004

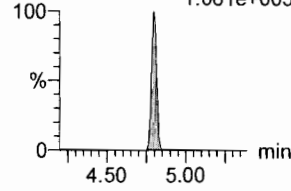


PFNA

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

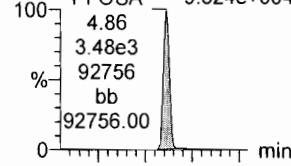


F24:MRM of 2 channels,ES-
463.0 > 219.0
1.061e+005

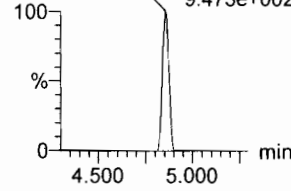


PFOSA

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

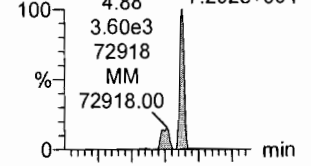


F27:MRM of 2 channels,ES-
498.1 > 478
9.473e+002

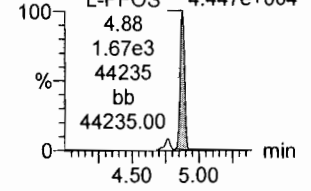


L-PFOS

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

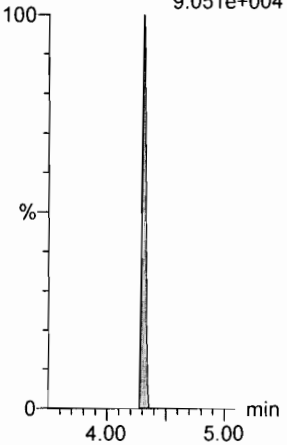


F29:MRM of 2 channels,ES-
499 > 99
4.447e+004



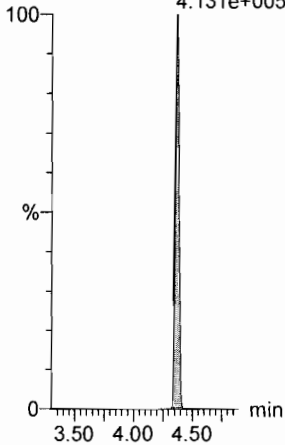
13C2-6:2 FTS

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



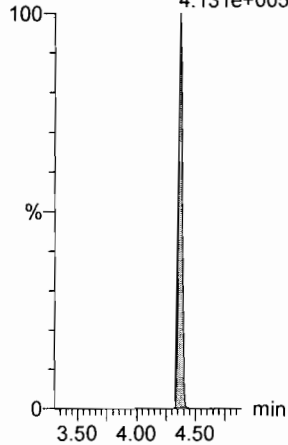
13C2-PFOA

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



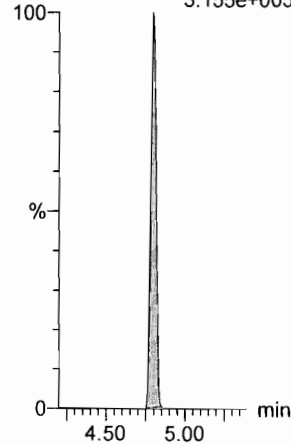
13C2-PFOA

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



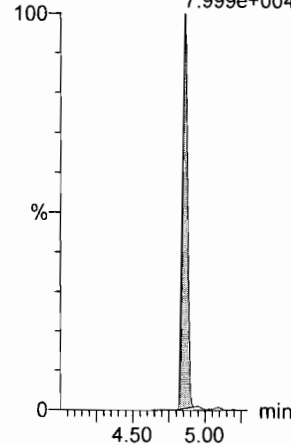
13C5-PFNA

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



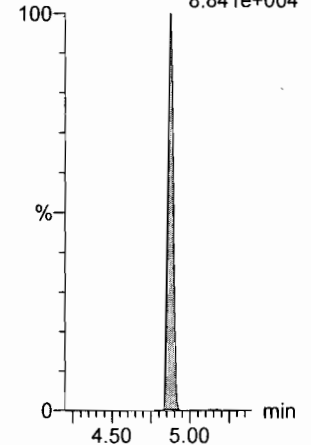
13C8-PFOSA

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



13C8-PFOS

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



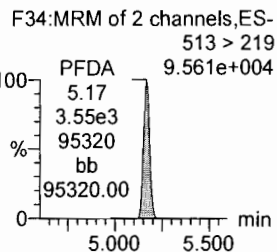
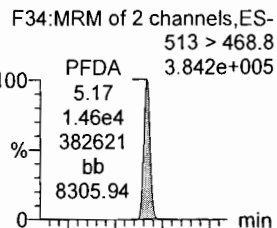
Dataset: U:\Q4.PRO\results\180115M2\180115M2-26.qld

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

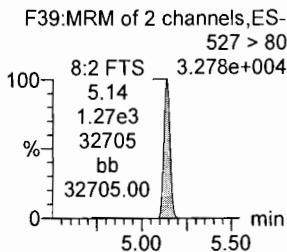
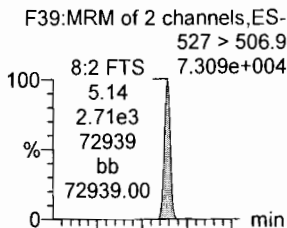
Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

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

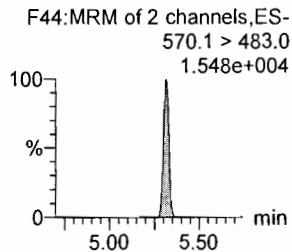
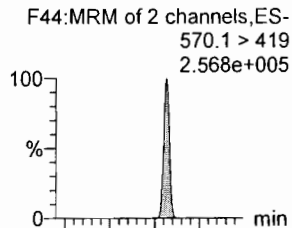
PFDA



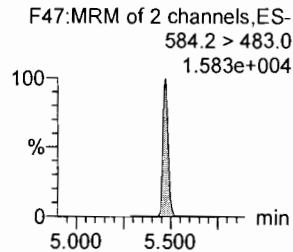
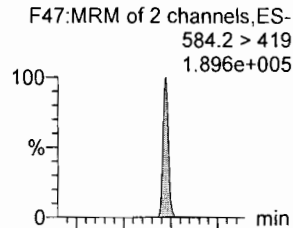
8:2 FTS



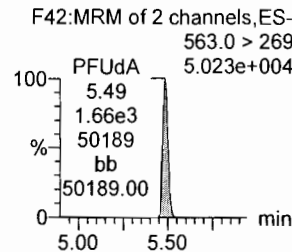
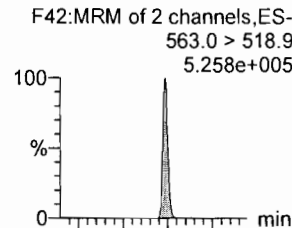
N-MeFOSAA



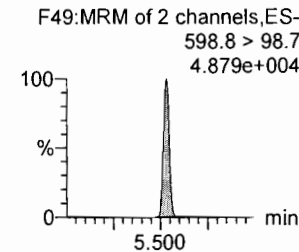
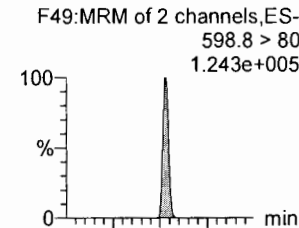
N-EtFOSAA



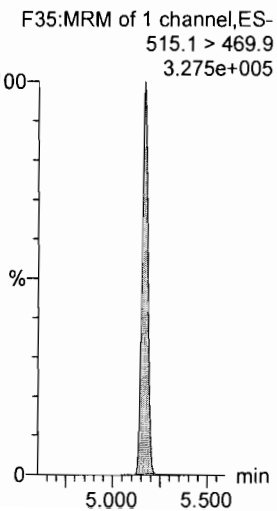
PFUdA



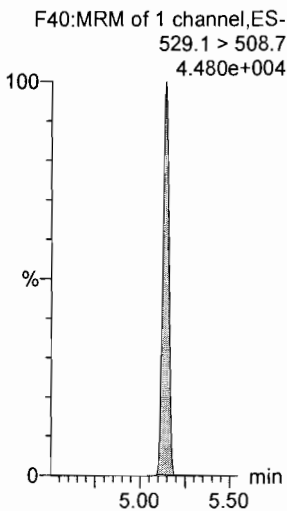
PFDS



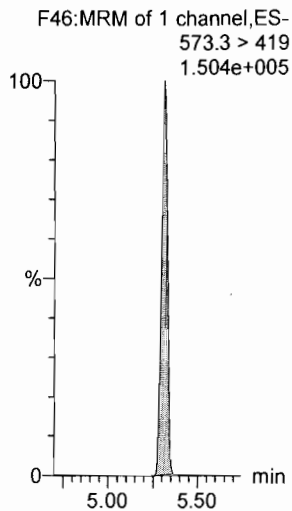
13C2-PFDA



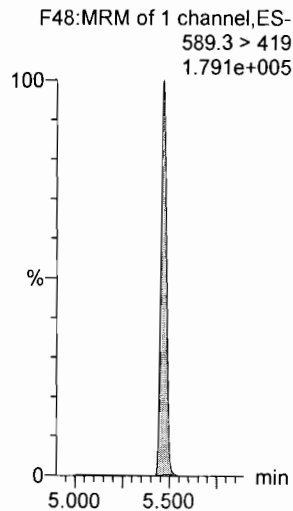
13C2-8:2 FTS



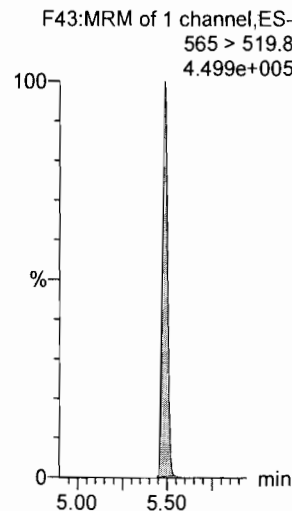
d3-N-MeFOSAA



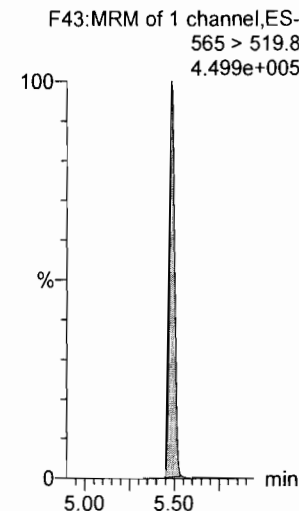
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



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

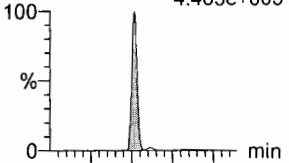
Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time

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

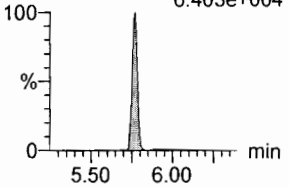
Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

PFDaA

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

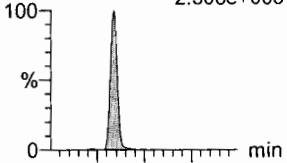


F50:MRM of 2 channels,ES-
 612.9 > 318.8
 6.403e+004

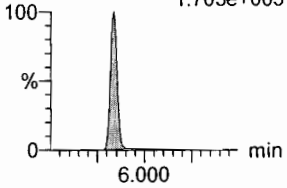


N-MeFOSA

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

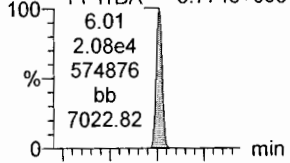


F33:MRM of 2 channels,ES-
 512.1 > 219
 1.703e+005

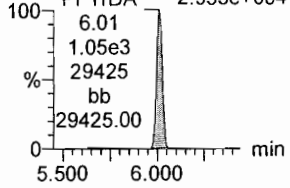


PFTrDA

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

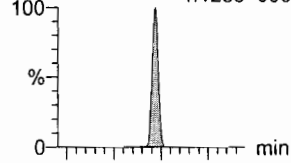


F56:MRM of 2 channels,ES-
 662.9 > 319
 2.953e+004

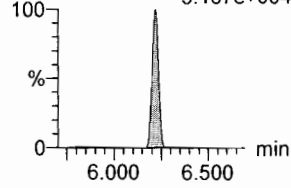


PFTeDA

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

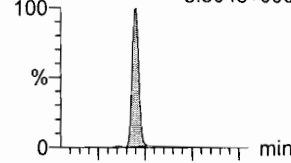


F57:MRM of 2 channels,ES-
 712.9 > 369
 5.167e+004

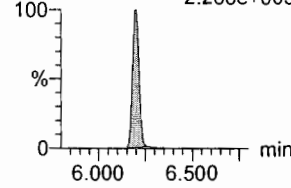


N-EtFOSA

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

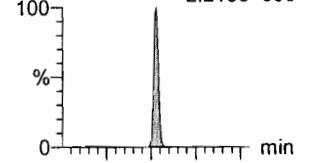


F38:MRM of 2 channels,ES-
 526.1 > 219
 2.268e+005

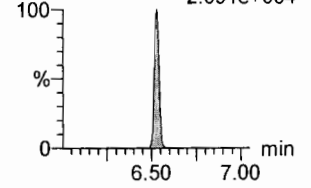


PFHxDA

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

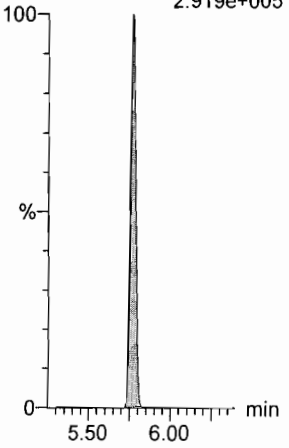


F59:MRM of 2 channels,ES-
 813.1 > 219
 2.091e+004



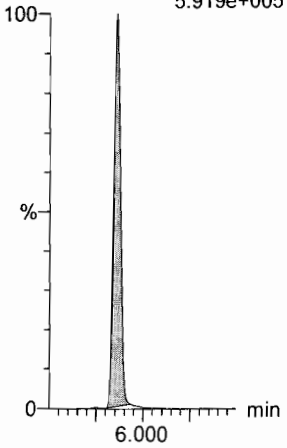
13C2-PFDaA

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



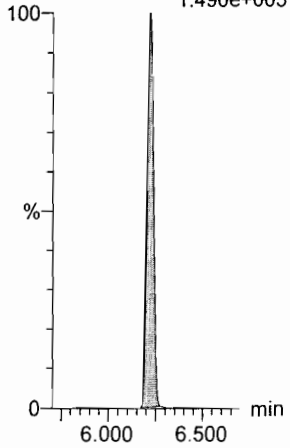
d3-N-MeFOSA

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



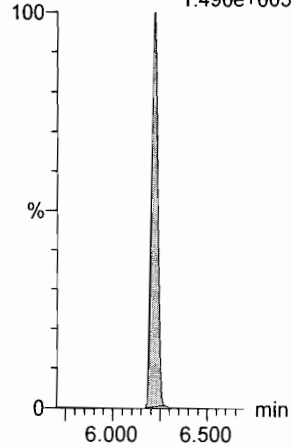
13C2-PFTeDA

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



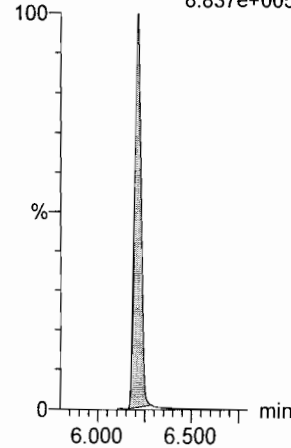
13C2-PFTeDA

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



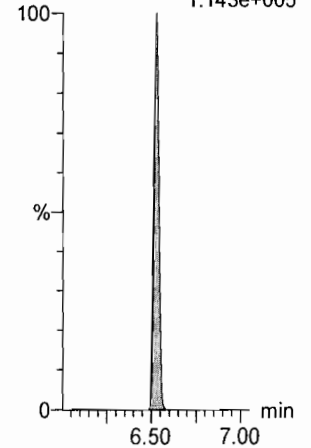
d5-N-ETFOSA

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



13C2-PFHxDA

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



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

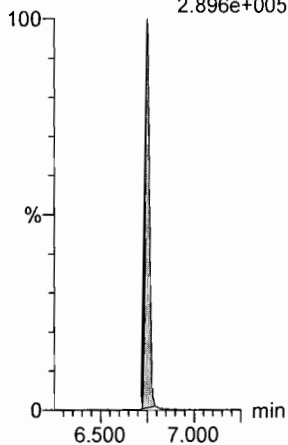
Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time

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

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

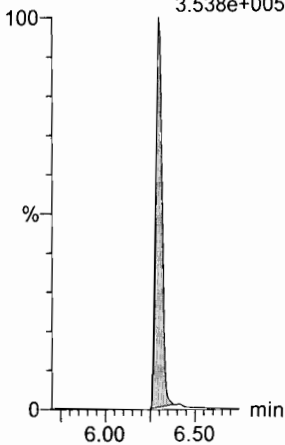
PFODA

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



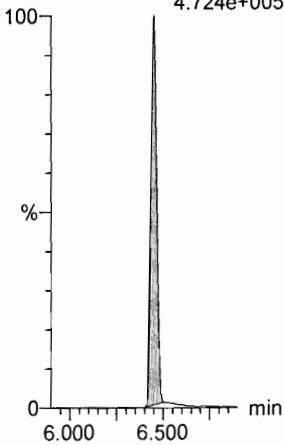
N-MeFOSE

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



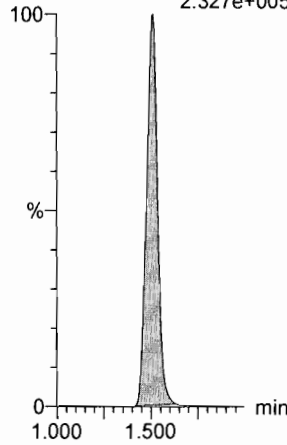
N-EtFOSE

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



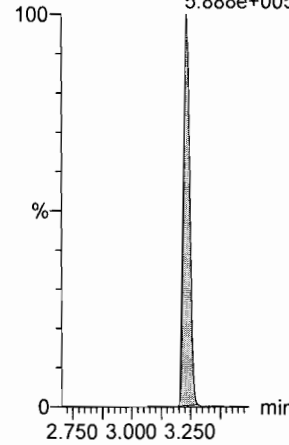
13C4-PFBA

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



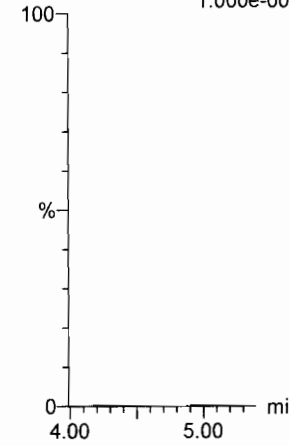
13C5-PFHxA

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



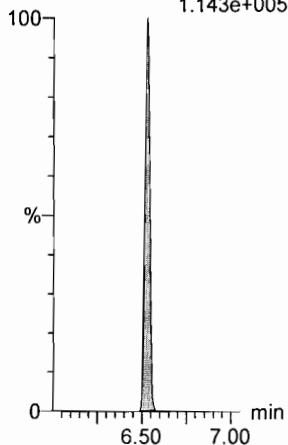
TCDA

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



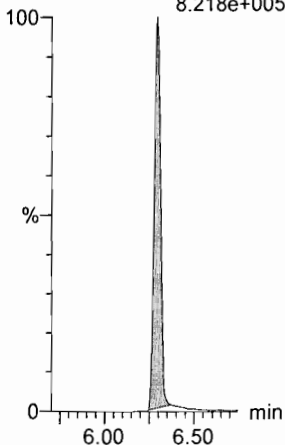
13C2-PFHxDA

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



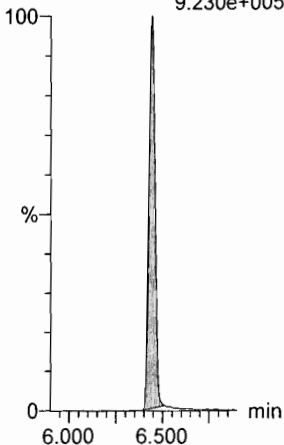
d7-N-MeFOSE

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



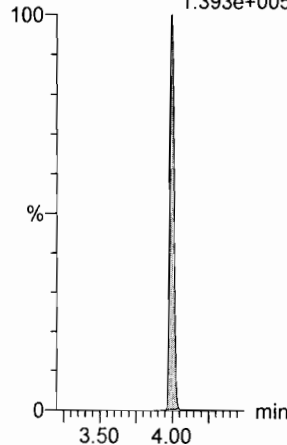
d9-N-EtFOSE

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



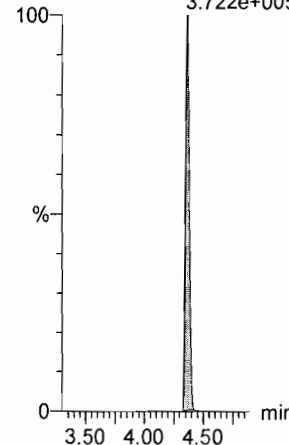
13C3-PFHxS

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



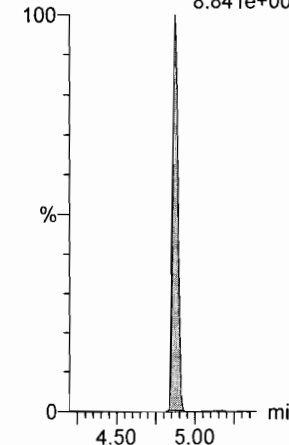
13C8-PFOA

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



13C8-PFOS

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



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

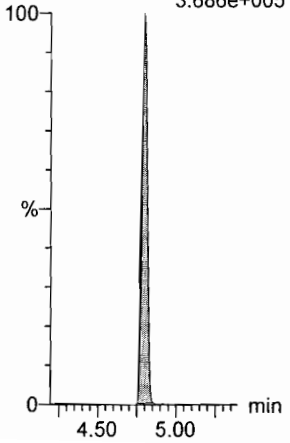
Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time

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

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

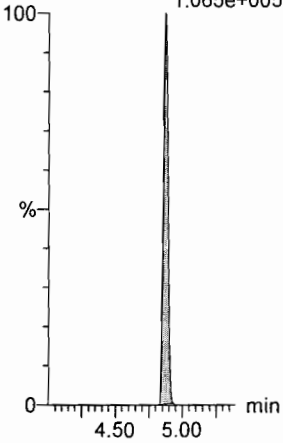
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.686e+005



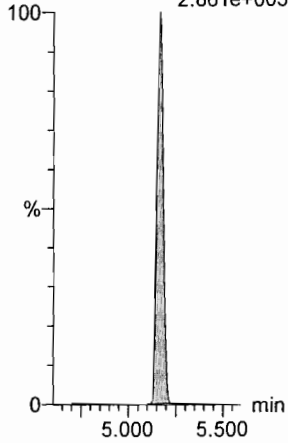
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
1.065e+005



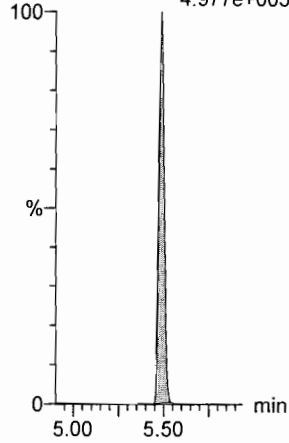
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.861e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.977e+005



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

Last Altered: Tuesday, January 16, 2018 14:39:26 Pacific Standard Time
 Printed: Tuesday, January 16, 2018 14:39:34 Pacific Standard Time

Ⓐ PFDDA, PFTrDA > 130%

AC 1/16/18

JJA.
01/16/2018

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

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

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

70-130

50-150

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

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

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

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

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	
32	35	13C4-PFHpA	367.2 > 321.8	1.13e4	1.94e4	1.0000	0.621	4.00	3.84	7.26	11.698	93.6
33	36	18O2-PFHxS	403.0 > 102.6	1.31e3	4.50e3	1.0000	0.336	4.14	3.99	3.63	10.814	86.5
34	37	13C2-6:2 FTS	429.1 > 408.9	2.97e3	1.50e4	1.0000	0.192	4.46	4.30	2.48	12.885	103.1
35	38	13C2-PFOA	414.9 > 369.7	1.43e4	1.50e4	1.0000	1.001	4.50	4.36	12.0	11.940	95.5
36	39	13C5-PFNA	468.2 > 422.9	1.42e4	1.69e4	1.0000	0.811	4.94	4.79	10.5	12.993	103.9
37	40	13C8-PFOSA	506.1 > 77.7	3.08e3	1.60e4	1.0000	0.196	5.00	4.85	2.41	12.288	98.3
38	41	13C8-PFOS	507.0 > 79.9	3.92e3	3.84e3	1.0000	0.862	5.02	4.86	12.8	14.802	118.4
39	42	13C2-PFDA	515.1 > 469.9	1.33e4	1.14e4	1.0000	0.996	5.31	5.16	14.6	14.646	117.2
40	43	13C2-8:2 FTS	529.1 > 508.7	2.03e3	1.94e4	1.0000	0.103	5.28	5.12	1.31	12.697	101.6
41	44	d3-N-MeFOSAA	573.3 > 419	6.29e3	1.60e4	1.0000	0.340	5.45	5.30	4.93	14.490	115.9
42	45	d5-N-EiFOSAA	589.3 > 419	7.12e3	1.60e4	1.0000	0.377	5.60	5.45	5.58	14.803	118.4
43	46	13C2-PFUdA	565 > 519.8	1.34e4	1.60e4	1.0000	0.944	5.62	5.47	10.5	11.106	88.8
44	47	13C2-PFDoA	615.0 > 569.7	9.41e3	1.60e4	1.0000	0.726	5.91	5.76	7.37	10.153	81.2
45	48	d3-N-MeFOSA	515.2 > 168.9	2.57e4	1.60e4	1.0000	0.119	5.87	5.86	20.1	169.324	112.9
46	49	13C2-PFTeDA	714.8 > 669.6	5.42e3	1.60e4	1.0000	0.371	6.35	6.20	4.25	11.434	91.5
47	50	d5-N-ETFOSA	531.1 > 168.9	3.68e4	1.60e4	1.0000	0.174	6.25	6.21	28.8	166.114	110.7
48	51	13C2-PFHxDA	815 > 769.7	3.45e3	1.60e4	1.0000	0.559	6.64	6.52	2.70	4.835	96.7
49	52	d7-N-MeFOSE	623.1 > 58.9	3.74e4	1.60e4	1.0000	0.179	6.31	6.29	29.3	163.157	108.8
50	53	d9-N-EiFOSE	639.2 > 58.8	3.82e4	1.60e4	1.0000	0.160	6.45	6.44	29.9	187.541	125.0
51	54	13C4-PFBA	217. > 171.8	1.64e4	1.64e4	1.0000	1.000	1.64	1.49	12.5	12.500	100.0
52	55	13C5-PFHxA	318 > 272.9	1.94e4	1.94e4	1.0000	1.000	3.36	3.22	12.5	12.500	100.0
53	56	13C3-PFHxS	401.9 > 79.9	4.50e3	4.50e3	1.0000	1.000	4.14	3.99	12.5	12.500	100.0
54	57	13C8-PFOA	421.3 > 376	1.50e4	1.50e4	1.0000	1.000	4.50	4.36	12.5	12.500	100.0
55	58	13C9-PFNA	472.2 > 426.9	1.69e4	1.69e4	1.0000	1.000	4.94	4.78	12.5	12.500	100.0
56	59	13C4-PFOS	503 > 79.9	3.84e3	3.84e3	1.0000	1.000	5.02	4.86	12.5	12.500	100.0
57	60	13C6-PFDA	519.1 > 473.7	1.14e4	1.14e4	1.0000	1.000	5.31	5.16	12.5	12.500	100.0
58	61	13C7-PFUdA	570.1 > 524.8	1.60e4	1.60e4	1.0000	1.000	5.62	5.47	12.5	12.500	100.0

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Vista Analytical Laboratory

Dataset: Untitled

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

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

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

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

Compound name: PFBA

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

Dataset: Untitled

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

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

Compound name: PFBA

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

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

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Compound name: PFBA

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

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

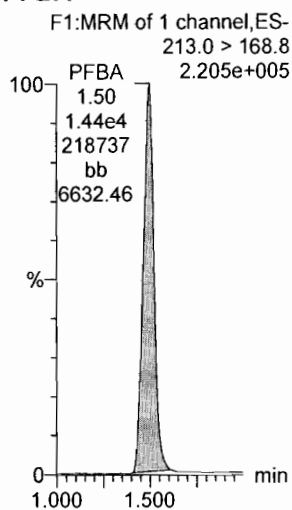
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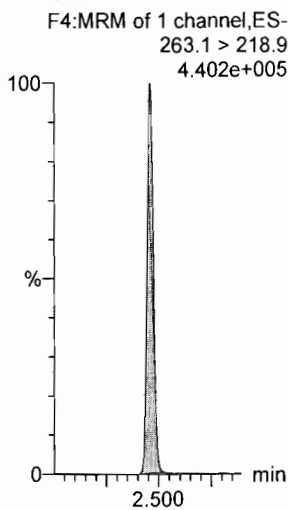
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Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

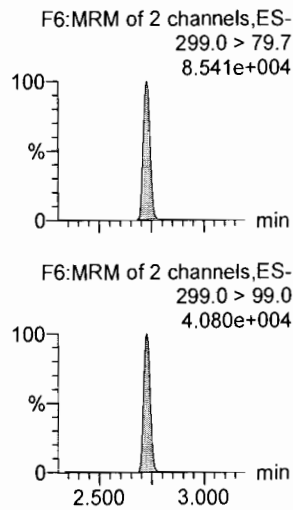
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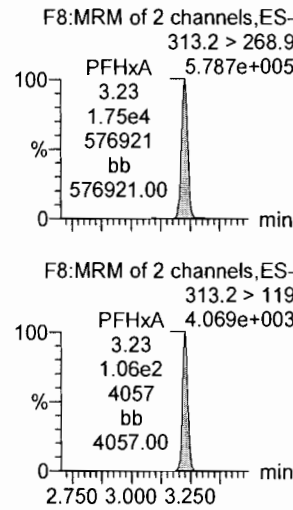
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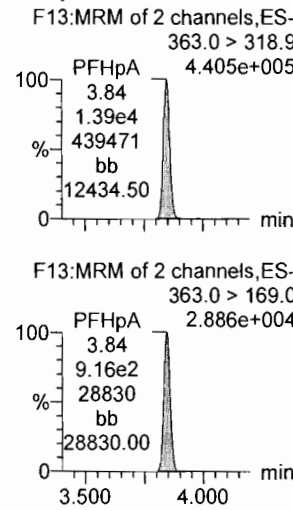
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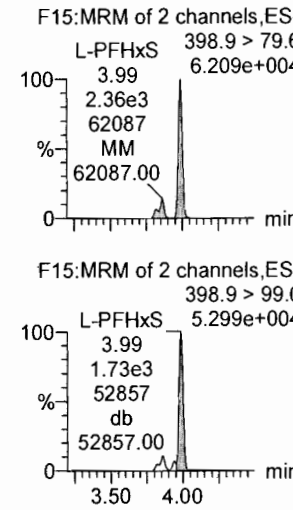
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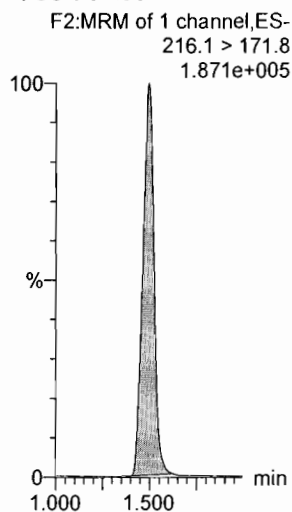
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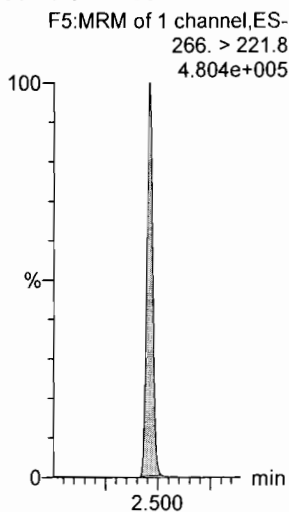
L-PFHxS



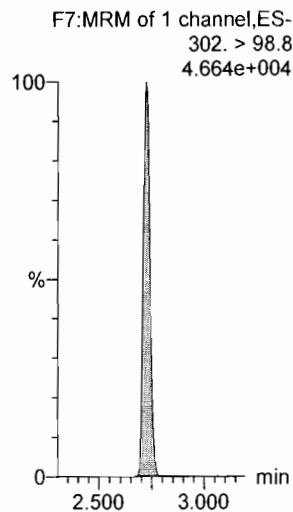
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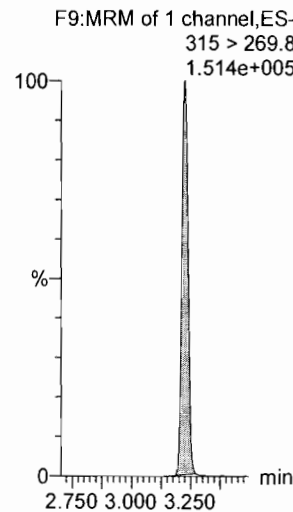
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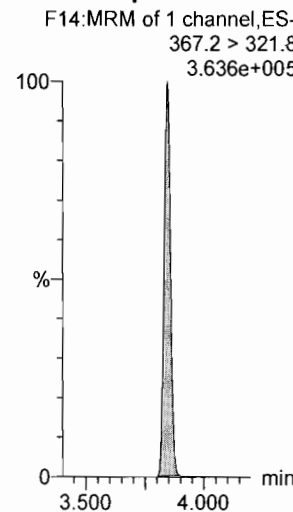
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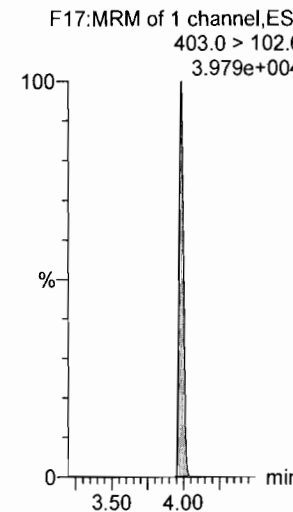
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13C4-PFHpA



18O2-PFHxS

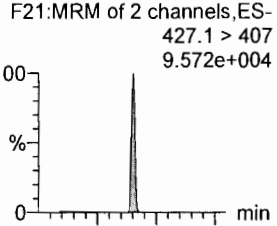


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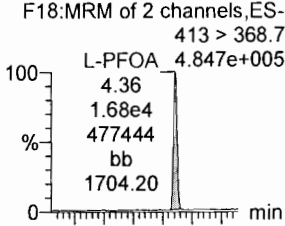
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Name: 180115M2_43, Date: 16-Jan-2018, Time: 08:15:26, ID: ST180115M2-10 PFC CS3 17L2611, Description: PFC CS3 17L2611

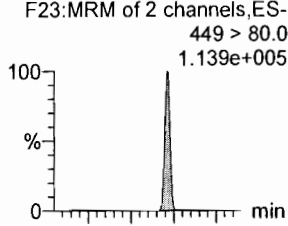
6:2 FTS



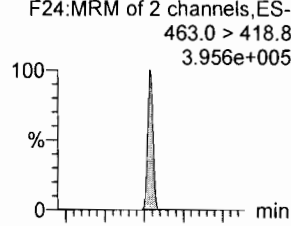
L-PFOA



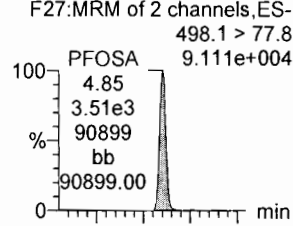
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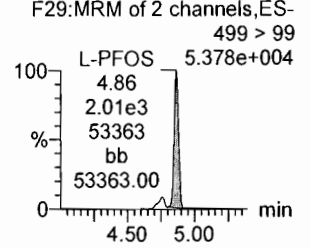
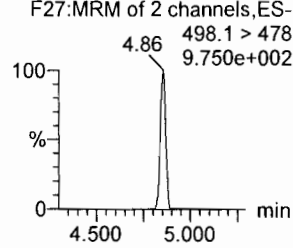
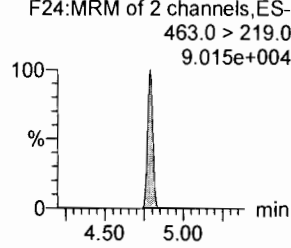
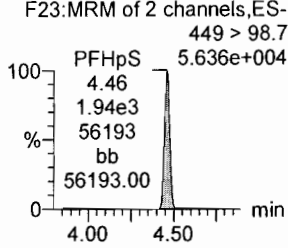
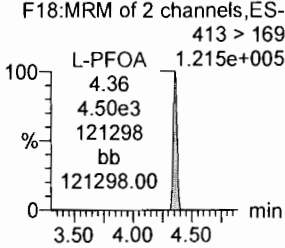
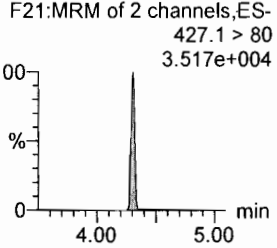
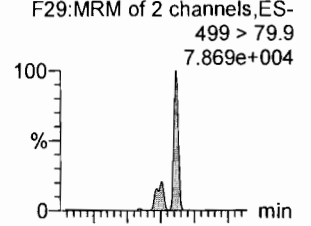
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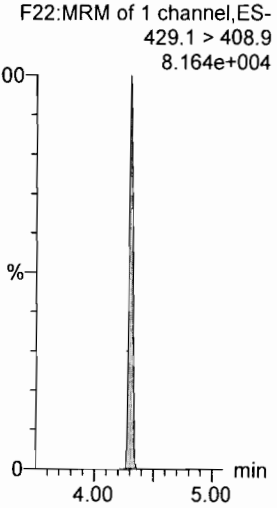
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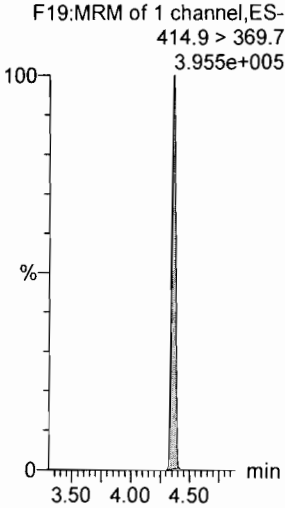
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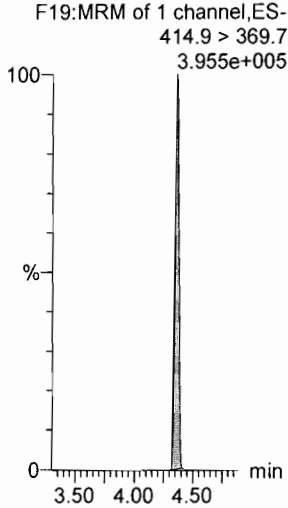
13C2-6:2 FTS



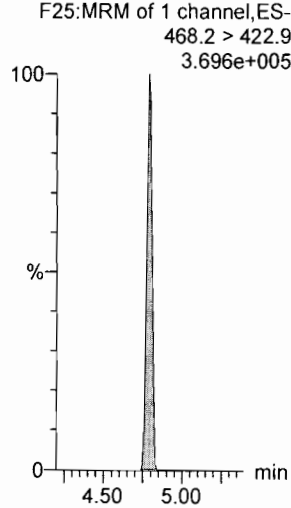
13C2-PFOA



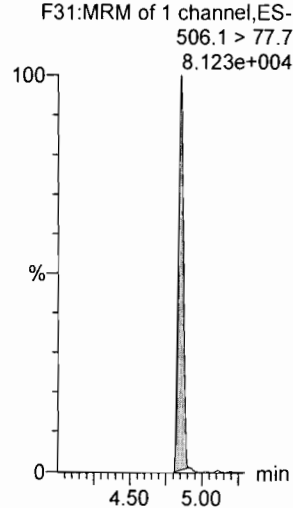
13C2-PFOA



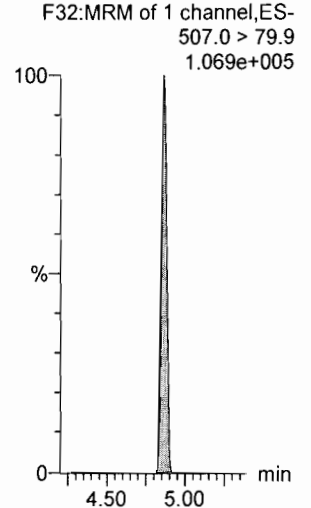
13C5-PFNA



13C8-PFOSA



13C8-PFOS



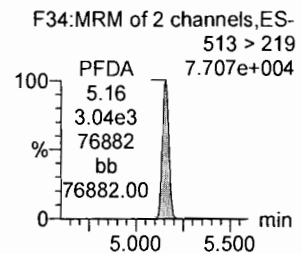
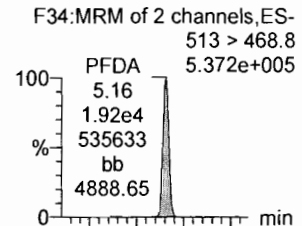
Dataset: U:\Q4.PRO\results\180115M2\180115M2-43.qld

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

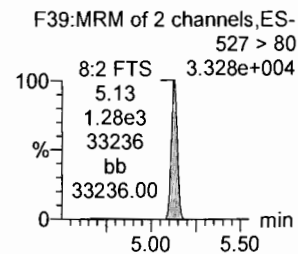
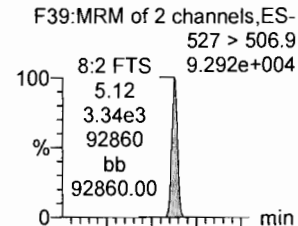
Printed: Tuesday, January 16, 2018 14:39:34 Pacific Standard Time

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

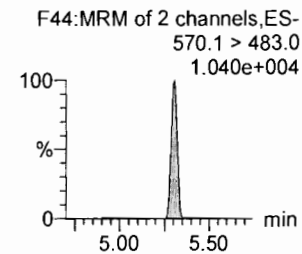
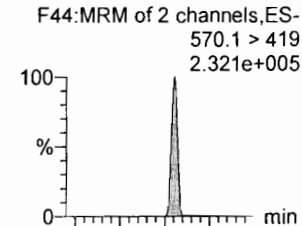
PFDA



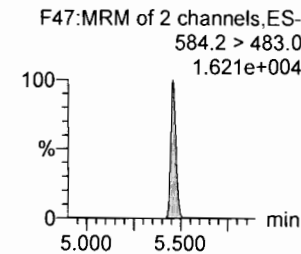
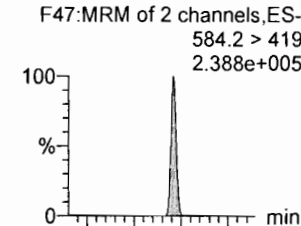
8:2 FTS



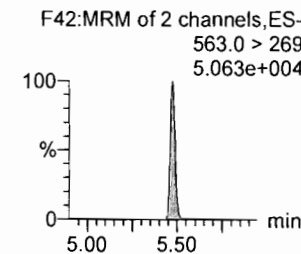
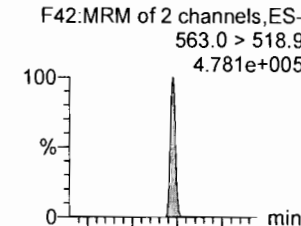
N-MeFOSAA



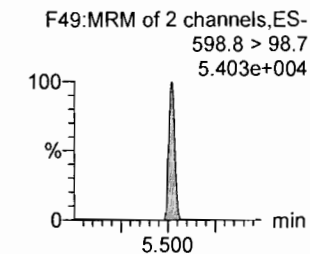
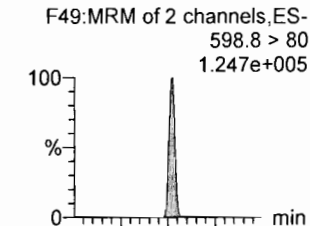
N-EtFOSAA



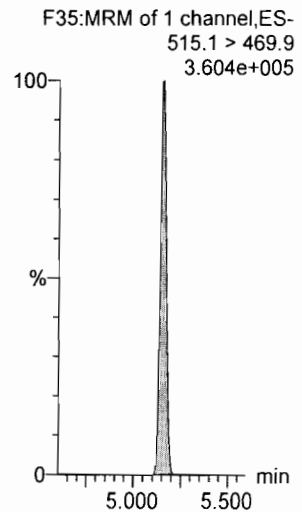
PFUdA



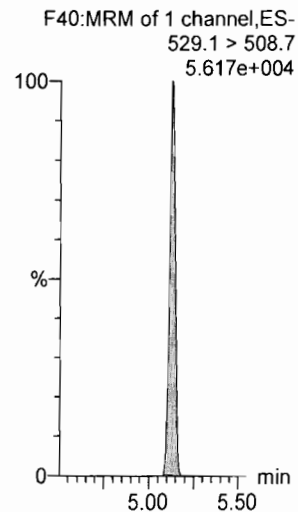
PFDS



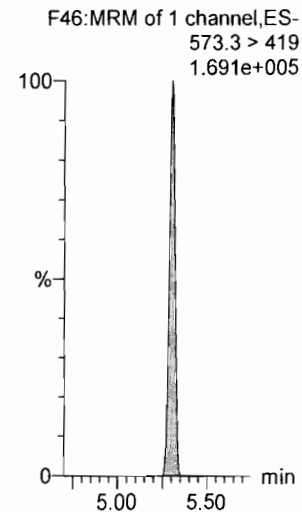
13C2-PFDA



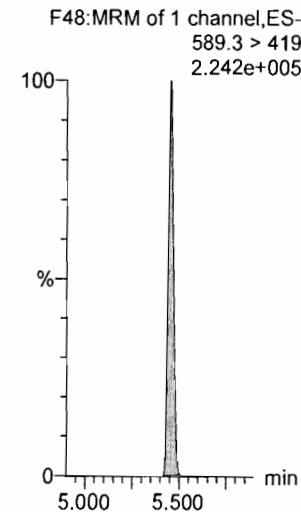
13C2-8:2 FTS



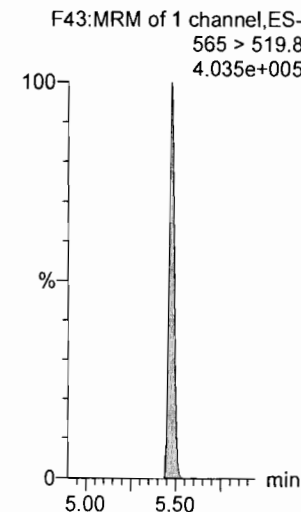
d3-N-MeFOSAA



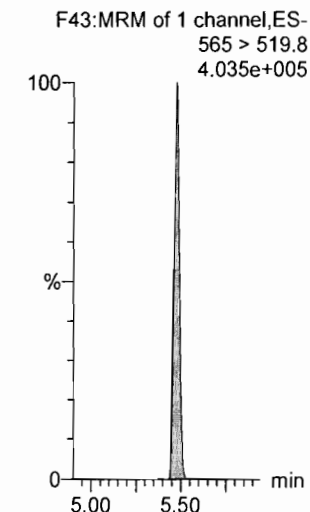
d5-N-EtFOSAA



13C2-PFUdA



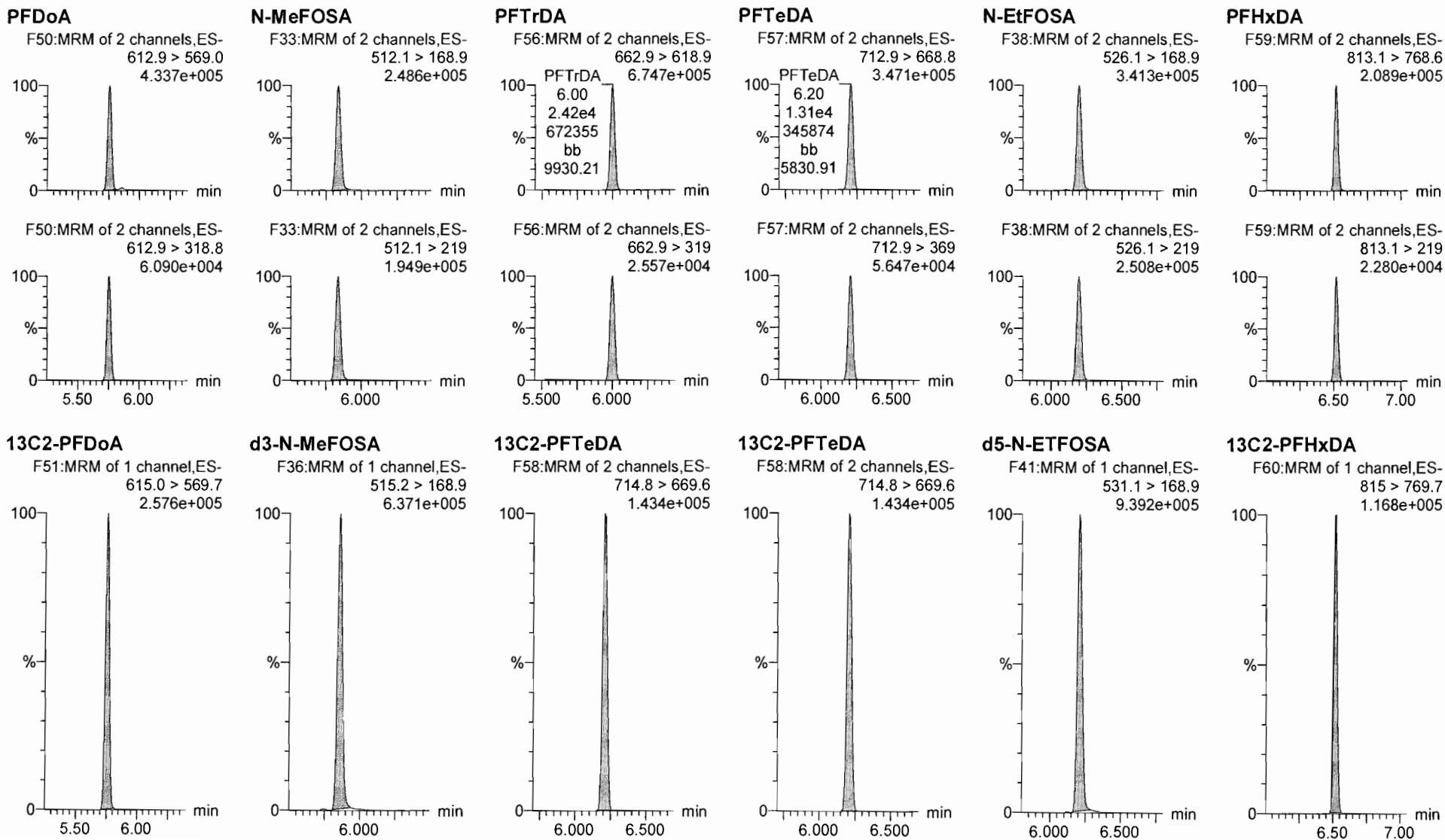
13C2-PFUdA



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

Last Altered: Tuesday, January 16, 2018 14:39:26 Pacific Standard Time
Printed: Tuesday, January 16, 2018 14:39:34 Pacific Standard Time

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



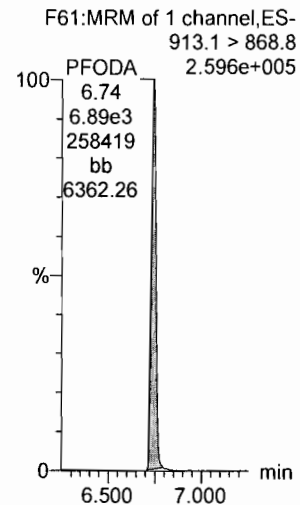
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Last Altered: Tuesday, January 16, 2018 14:39:26 Pacific Standard Time

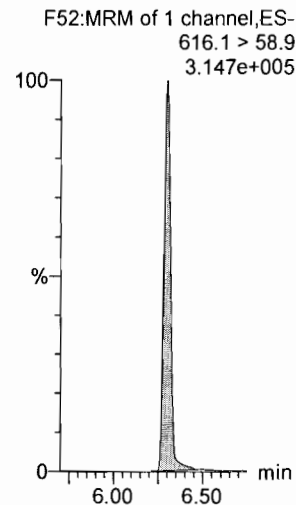
Printed: Tuesday, January 16, 2018 14:39:34 Pacific Standard Time

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

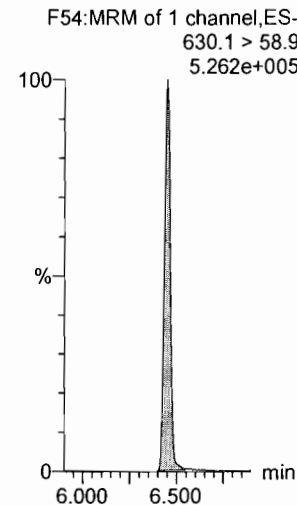
PFODA



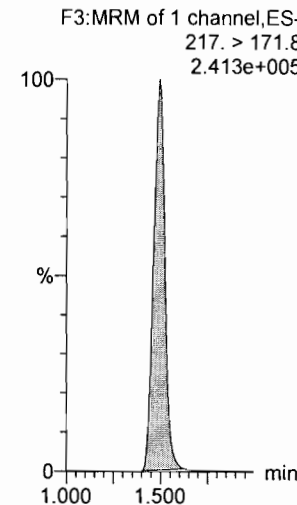
N-MeFOSE



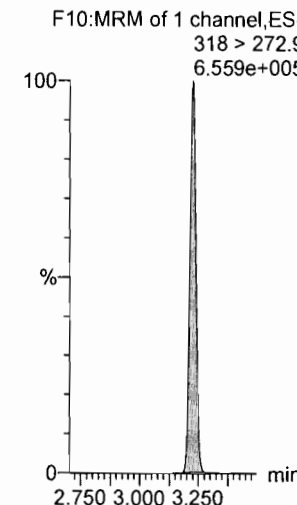
N-EtFOSE



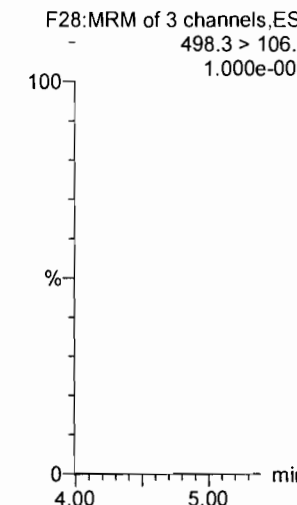
13C4-PFBA



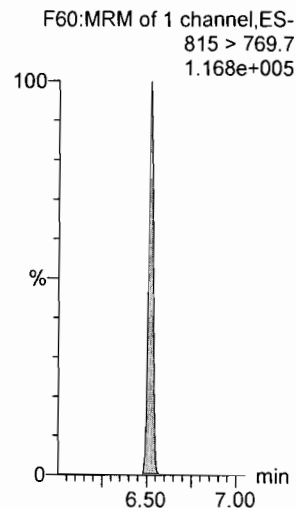
13C5-PFHxA



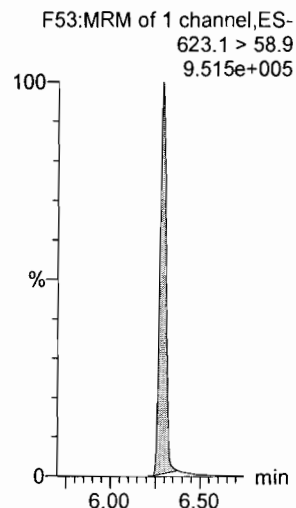
TCDA



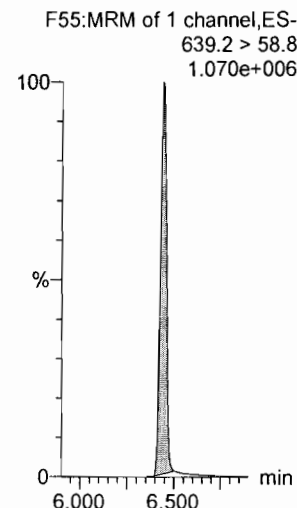
13C2-PFHxDA



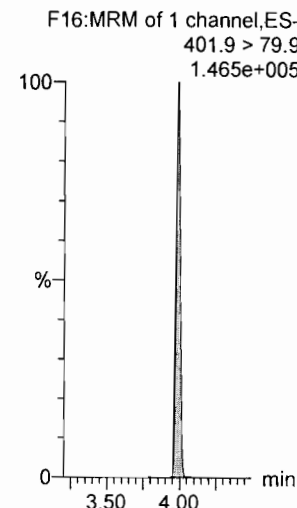
d7-N-MeFOSE



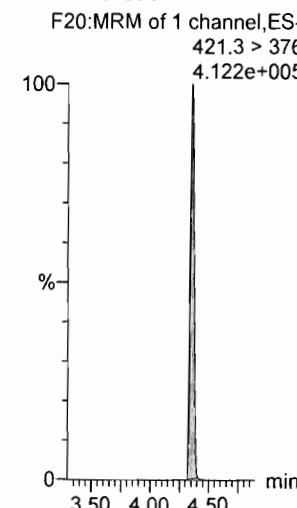
d9-N-EtFOSE



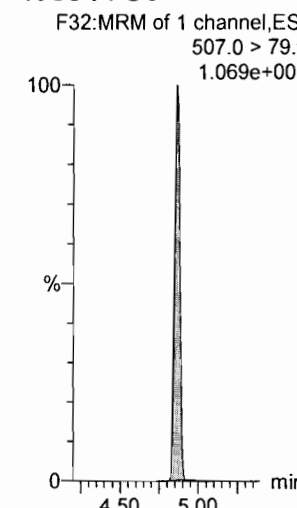
13C3-PFHxS



13C8-PFOA



13C8-PFOS



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

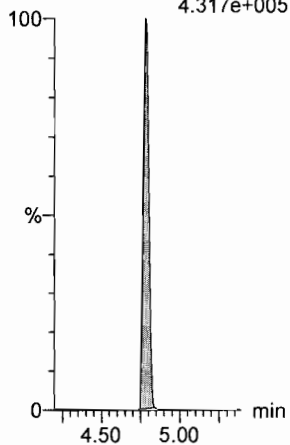
Last Altered: Tuesday, January 16, 2018 14:39:26 Pacific Standard Time

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

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

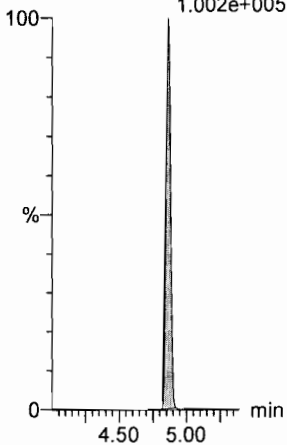
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.317e+005



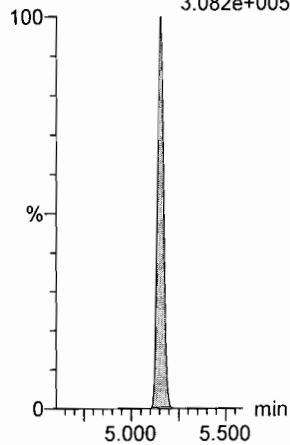
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
1.002e+005



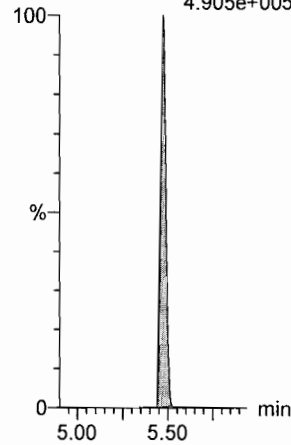
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
3.082e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.905e+005



Ⓐ 8:2 FTS, PFDOA 7:130%

Dataset: U:\Q4.PRO\results\180115M2\180115M2-60.qld

Last Altered: Tuesday, January 16, 2018 12:14:33 Pacific Standard Time

Printed: Tuesday, January 16, 2018 12:14:40 Pacific Standard Time

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

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

Name: 180115M2_60, Date: 16-Jan-2018, Time: 11:37:05, ID: ST180115M2-11 PFC CS0 17L2608, Description: PFC CS0 17L2608

AC
1/16/18

1/16/2018

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.37e3	1.38e4	1.0000		1.64	1.50	1.24	0.954	95.4
2	2 PFPeA	263.1 > 218.9	1.38e3	1.56e4	1.0000		2.60	2.45	1.11	0.988	98.8
3	3 PFBS	299.0 > 79.7	2.92e2	1.88e3	1.0000		2.87	2.72	1.94	0.904	90.4
4	4 PFHxA	313.2 > 268.9	1.71e3	5.41e3	1.0000		3.36	3.22	1.58	0.893	89.3
5	5 PFHpA	363.0 > 318.9	1.42e3	1.21e4	1.0000		4.00	3.83	1.47	1.022	102.2
6	6 L-PFHxS	398.9 > 79.6	2.31e2	1.41e3	1.0000		4.14	3.97	2.05	0.958	95.8
7	8 6:2 FTS	427.1 > 407	2.64e2	1.41e3	1.0000		4.46	4.29	2.34	0.842	84.2
8	9 L-PFOA	413 > 368.7	1.86e3	1.75e4	1.0000		4.35	4.35	1.33	0.867	86.7
9	11 PFHpS	449 > 80.0	3.56e2	1.75e4	1.0000		4.60	4.45	0.254	0.956	95.6
10	12 PFNA	463.0 > 418.8	1.69e3	1.48e4	1.0000		4.94	4.77	1.43	1.076	107.6
11	13 PFOSA	498.1 > 77.8	3.50e2	3.25e3	1.0000		5.00	4.84	1.35	1.137	113.7
12	14 L-PFOS	499 > 79.9	3.42e2	4.08e3	1.0000		5.02	4.85	1.05	0.984	98.4
13	16 PFDA	513 > 468.8	1.58e3	1.26e4	1.0000		5.31	5.14	1.57	1.087	108.7
14	17 8:2 FTS	527 > 506.9	3.37e2	1.26e4	1.0000		5.28	5.11	0.334	1.379	137.9
15	18 N-MeFOSAA	570.1 > 419	8.53e2	5.94e3	1.0000		5.45	5.29	1.80	1.070	107.0
16	19 N-EtFOSAA	584.2 > 419	6.51e2	7.22e3	1.0000		5.60	5.44	1.13	0.914	91.4
17	20 PFUDa	563.0 > 518.9	1.42e3	1.76e4	1.0000		5.62	5.46	1.01	0.923	92.3
18	21 PFDS	598.8 > 80	4.79e2	1.76e4	1.0000		5.67	5.50	0.340	1.111	111.1
19	22 PFDoA	612.9 > 569.0	1.74e3	8.83e3	1.0000		5.91	5.74	2.47	1.550	155.0
20	23 N-MeFOSA	512.1 > 168.9	8.15e2	2.57e4	1.0000		5.87	5.84	4.76	4.351	87.0
21	24 PFTrDA	662.9 > 618.9	1.77e3	8.83e3	1.0000		6.15	5.98	2.51	1.143	114.3
22	25 PFTeDA	712.9 > 668.8	1.21e3	5.55e3	1.0000		6.35	6.19	2.74	0.870	87.0
23	26 N-EtFOSA	526.1 > 168.9	1.16e3	3.67e4	1.0000		6.25	6.19	4.73	4.867	97.3
24	27 PFHxDA	813.1 > 768.6	6.55e2	3.60e3	1.0000		6.64	6.51	0.909	0.972	97.2
25	28 PFODA	913.1 > 868.8	7.62e2	3.60e3	1.0000		6.85	6.73	1.06	1.123	112.3
26	29 N-MeFOSE	616.1 > 58.9	1.28e3	4.18e4	1.0000		6.31	6.29	4.60	4.392	87.8
27	30 N-EtFOSE	630.1 > 58.9	1.53e3	3.31e4	1.0000		6.45	6.44	6.91	5.633	112.7
28	31 13C3-PFBA	216.1 > 171.8	1.38e4	1.74e4	1.0000	0.779	1.64	1.49	9.94	12.755	102.0
29	32 13C3-PFPeA	266. > 221.8	1.56e4	1.96e4	1.0000	0.797	2.60	2.45	9.94	12.475	99.8
30	33 13C3-PFBS	302. > 98.8	1.88e3	1.96e4	1.0000	0.095	2.87	2.72	1.20	12.638	101.1
31	34 13C2-PFHxA	315 > 269.8	5.41e3	1.96e4	1.0000	0.636	3.36	3.22	3.45	5.417	108.3

70-130
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 50-150
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Dataset: U:\Q4.PRO\results\180115M2\180115M2-60.qld

Last Altered: Tuesday, January 16, 2018 12:14:33 Pacific Standard Time

Printed: Tuesday, January 16, 2018 12:14:40 Pacific Standard Time

Name: 180115M2_60, Date: 16-Jan-2018, Time: 11:37:05, ID: ST180115M2-11 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.21e4	1.96e4	1.0000	0.621	4.00	3.83	7.71	12.413	99.3
33	36 18O2-PFHxS	403.0 > 102.6	1.41e3	4.84e3	1.0000	0.336	4.14	3.98	3.64	10.843	86.7
34	37 13C2-6:2 FTS	429.1 > 408.9	3.49e3	1.80e4	1.0000	0.192	4.46	4.29	2.42	12.569	100.6
35	38 13C2-PFOA	414.9 > 369.7	1.75e4	1.80e4	1.0000	1.001	4.50	4.35	12.1	12.106	96.8
36	39 13C5-PFNA	468.2 > 422.9	1.48e4	1.79e4	1.0000	0.811	4.94	4.77	10.4	12.767	102.1
37	40 13C8-PFOSA	506.1 > 77.7	3.25e3	1.63e4	1.0000	0.196	5.00	4.84	2.49	12.667	101.3
38	41 13C8-PFOS	507.0 > 79.9	4.08e3	5.14e3	1.0000	0.862	5.02	4.85	9.92	11.516	92.1
39	42 13C2-PFDA	515.1 > 469.9	1.26e4	1.18e4	1.0000	0.996	5.31	5.14	13.3	13.385	107.1
40	43 13C2-8:2 FTS	529.1 > 508.7	1.56e3	1.96e4	1.0000	0.103	5.28	5.11	0.995	9.660	77.3
41	44 d3-N-MeFOSAA	573.3 > 419	5.94e3	1.63e4	1.0000	0.340	5.45	5.28	4.55	13.387	107.1
42	45 d5-N-EiFOSAA	589.3 > 419	7.22e3	1.63e4	1.0000	0.377	5.60	5.44	5.53	14.682	117.5
43	46 13C2-PFUdA	565 > 519.8	1.76e4	1.63e4	1.0000	0.944	5.62	5.46	13.5	14.313	114.5
44	47 13C2-PFDoA	615.0 > 569.7	8.83e3	1.63e4	1.0000	0.726	5.91	5.74	6.77	9.323	74.6
45	48 d3-N-MeFOSA	515.2 > 168.9	2.57e4	1.63e4	1.0000	0.119	5.87	5.85	19.7	165.400	110.3
46	49 13C2-PFTeDA	714.8 > 669.6	5.55e3	1.63e4	1.0000	0.371	6.35	6.19	4.25	11.458	91.7
47	50 d5-N-ETFOSA	531.1 > 168.9	3.67e4	1.63e4	1.0000	0.174	6.25	6.21	28.1	161.901	107.9
48	51 13C2-PFHxDA	815 > 769.7	3.60e3	1.63e4	1.0000	0.559	6.64	6.51	2.76	4.939	98.8
49	52 d7-N-MeFOSE	623.1 > 58.9	4.18e4	1.63e4	1.0000	0.179	6.31	6.28	32.1	178.796	119.2
50	53 d9-N-EiFOSE	639.2 > 58.8	3.31e4	1.63e4	1.0000	0.160	6.45	6.43	25.4	158.989	106.0
51	54 13C4-PFBA	217. > 171.8	1.74e4	1.74e4	1.0000	1.000	1.64	1.49	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.96e4	1.96e4	1.0000	1.000	3.36	3.22	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.84e3	4.84e3	1.0000	1.000	4.14	3.98	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.80e4	1.80e4	1.0000	1.000	4.50	4.34	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.79e4	1.79e4	1.0000	1.000	4.94	4.77	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	5.14e3	5.14e3	1.0000	1.000	5.02	4.85	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.18e4	1.18e4	1.0000	1.000	5.31	5.14	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.63e4	1.63e4	1.0000	1.000	5.62	5.46	12.5	12.500	100.0

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Dataset: Untitled

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

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

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

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

Compound name: PFBA

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

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33	180115M2_33	1701944-12 GW-PT-CHIN-271.5-277.5 0.11931	16-Jan-18	06:20:58
34	180115M2_34	1701944-13 EB-PT-Packers 0.11813	16-Jan-18	06:32:24
35	180115M2_35	B7L0120-BS1 OPR 0.25	16-Jan-18	06:43:51
36	180115M2_36	B7L0120-BSD1 LCSD 0.25	16-Jan-18	06:55:18
37	180115M2_37	IPA	16-Jan-18	07:06:45
38	180115M2_38	B7L0120-BLK1 Method Blank 0.25	16-Jan-18	07:18:12
39	180115M2_39	1701886-01 YS22-EB01-120417 0.11748	16-Jan-18	07:29:39
40	180115M2_40	1701886-02 YS22-AQ-120517 0.11801	16-Jan-18	07:41:05
41	180115M2_41	1701886-03 YS22-GW18-1217 0.11927	16-Jan-18	07:52:32
42	180115M2_42	IPA	16-Jan-18	08:04:00
43	180115M2_43	ST180115M2-10 PFC CS3 17L2611	16-Jan-18	08:15:26
44	180115M2_44	IPA	16-Jan-18	08:26:53
45	180115M2_45	B7L0183-BS1 OPR 0.25	16-Jan-18	08:38:20
46	180115M2_46	B7L0183-BSD1 LCSD 0.25	16-Jan-18	08:49:46
47	180115M2_47	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	09:01:13
48	180115M2_48	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	09:12:40
49	180115M2_49	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	09:24:07
50	180115M2_50	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	09:42:12
51	180115M2_51	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	09:53:46
52	180115M2_52	1701953-05 SA-MW127S-FRB-20171213 0.2...	16-Jan-18	10:05:14
53	180115M2_53	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	10:16:50
54	180115M2_54	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	10:28:24
55	180115M2_55	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	10:39:51
56	180115M2_56	1701953-09 SA-PZ123II-20171213 0.25747	16-Jan-18	10:51:18
57	180115M2_57	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	11:02:44
58	180115M2_58	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	11:14:11
59	180115M2_59	IPA	16-Jan-18	11:25:38
60	180115M2_60	ST180115M2-11 PFC CS0 17L2608	16-Jan-18	11:37:05
61	180115M2_61	IPA	16-Jan-18	11:48:32
62	180115M2_62	1701905-03RE1@40X WINF1712061655JLB ...	16-Jan-18	11:59:59
63	180115M2_63	1701852-01@20X IR03-MW034-C2-17D 0.26...	16-Jan-18	12:11:26
64	180115M2_64	1701852-02@20X IR03-MW018B-C1-17D 0.2...	16-Jan-18	12:22:53
65	180115M2_65	1701852-03@40X IR03-MW018A-C2-17D 0.2...	16-Jan-18	12:34:19

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Compound name: PFBA

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67	180115M2_67	IPA	16-Jan-18	12:57:13
68	180115M2_68	1701852-02 IR03-MW018B-C1-17D 0.25583	16-Jan-18	13:08:40
69	180115M2_69	IPA	16-Jan-18	13:20:07
70	180115M2_70	1701840-05 YS22-GW10-1217 0.11512	16-Jan-18	13:31:34
71	180115M2_71	IPA	16-Jan-18	13:43:01
72	180115M2_72	ST180115M2-12 PFC CS3 17L2611	16-Jan-18	13:54:28

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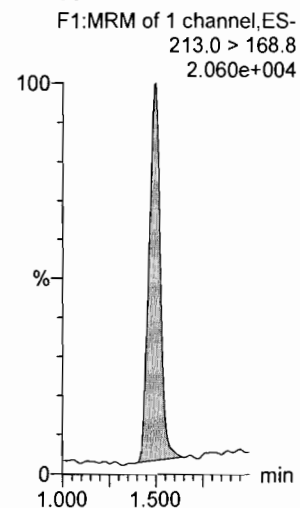
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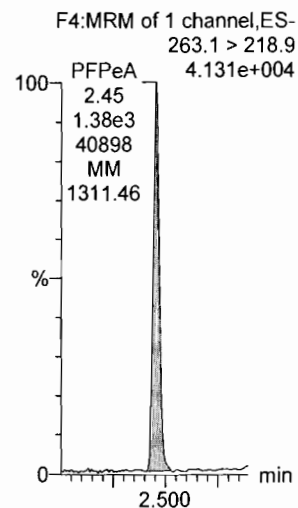
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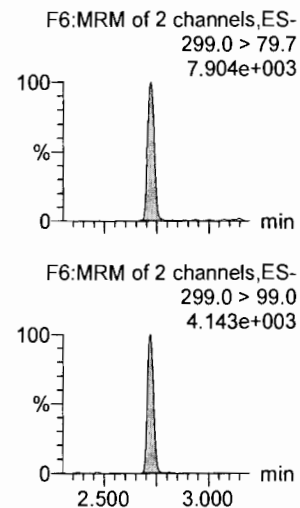
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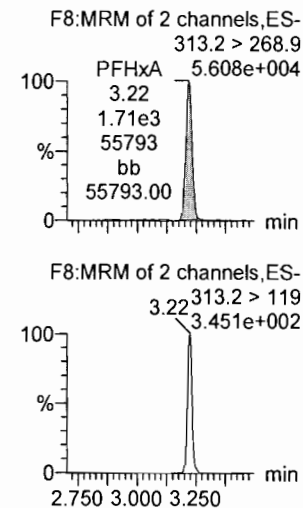
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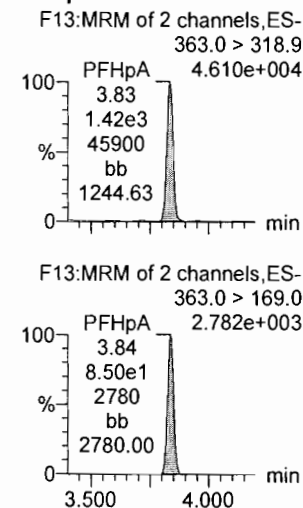
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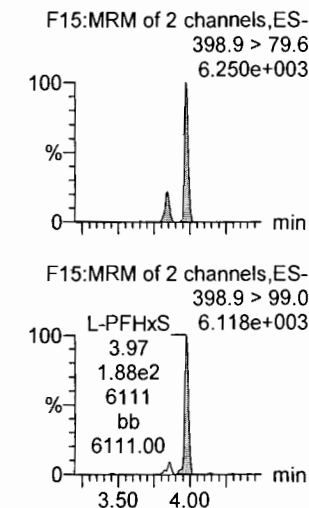
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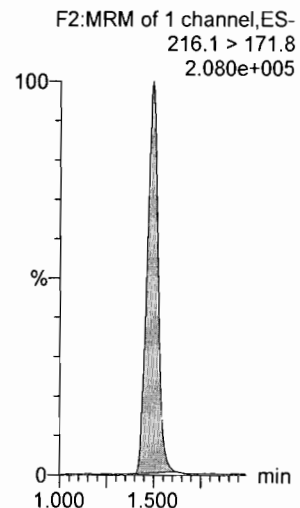
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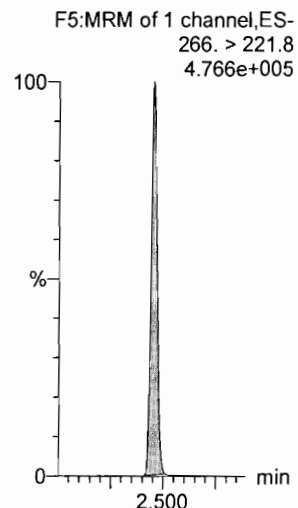
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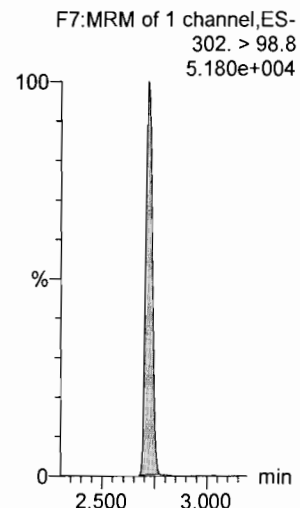
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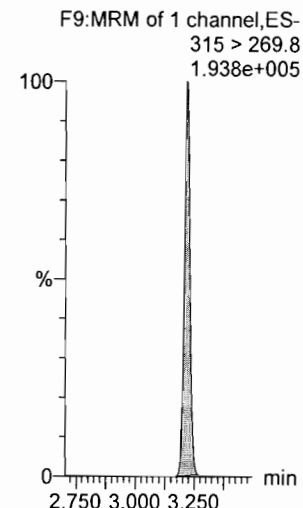
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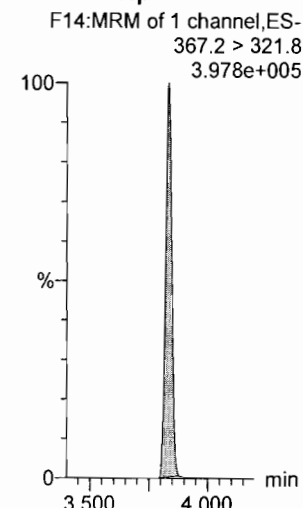
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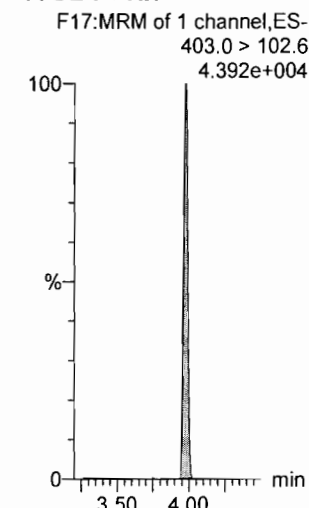
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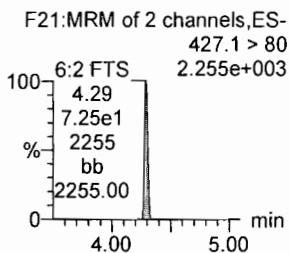
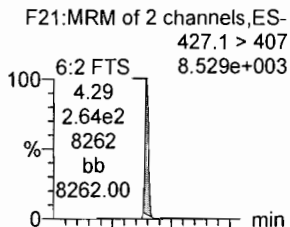


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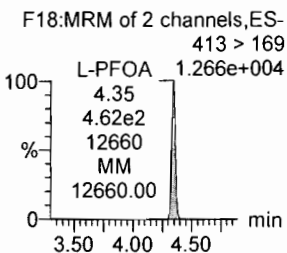
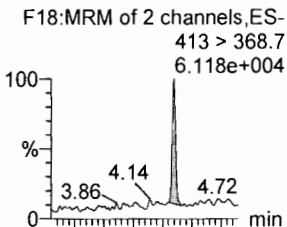
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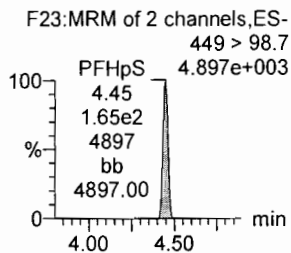
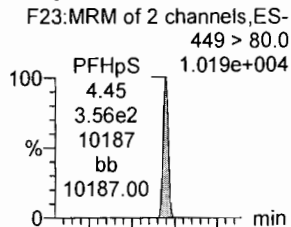
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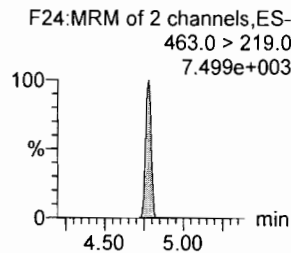
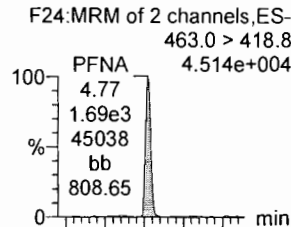
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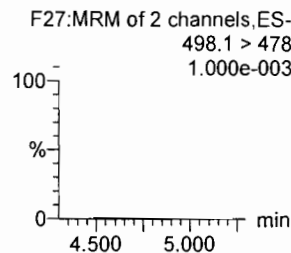
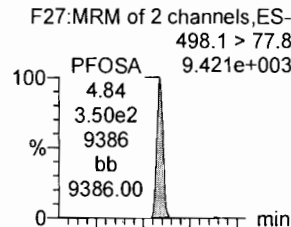
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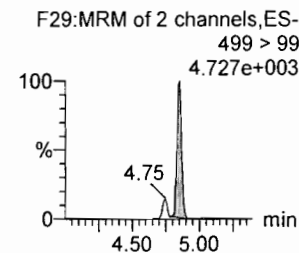
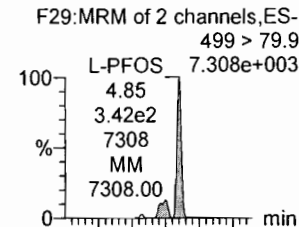
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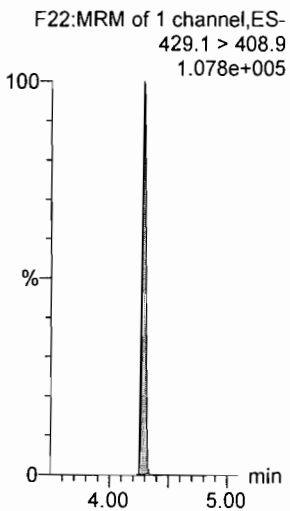
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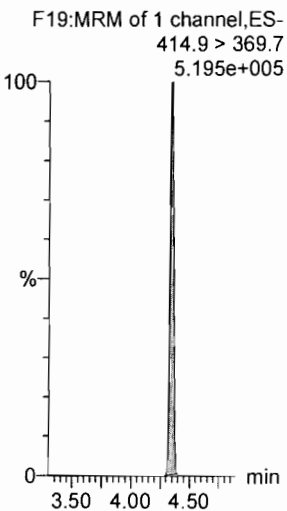
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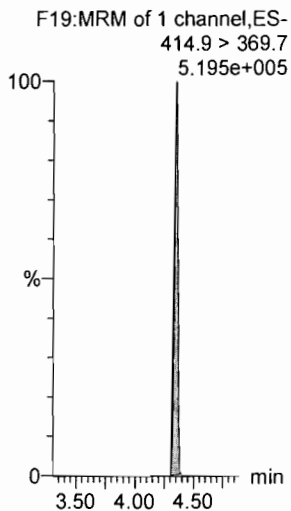
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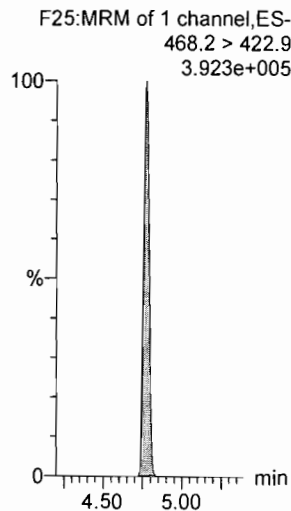
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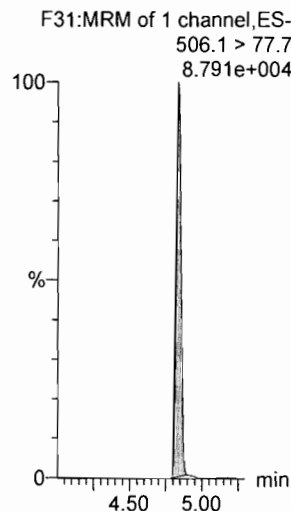
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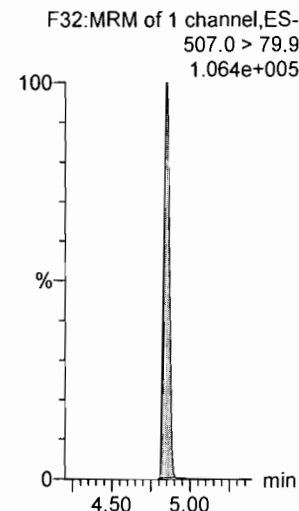
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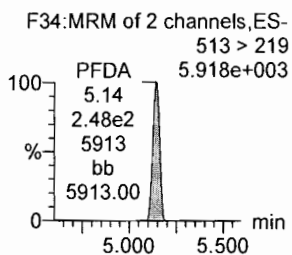
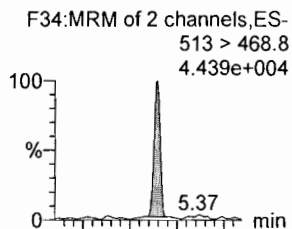
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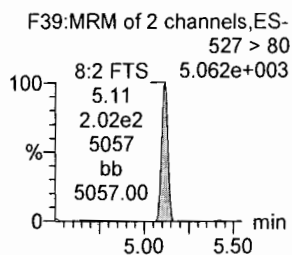
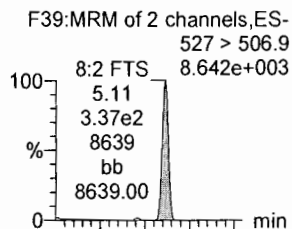
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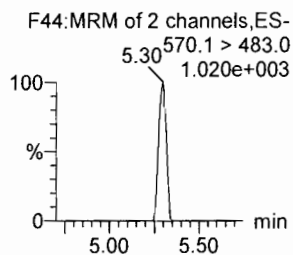
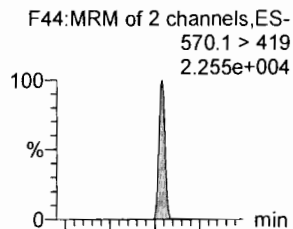
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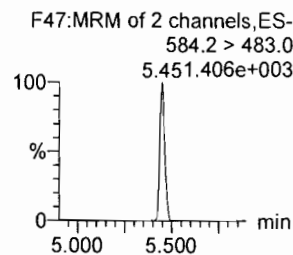
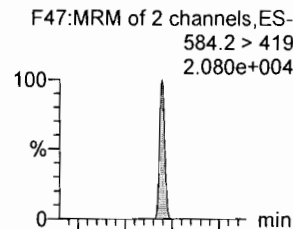
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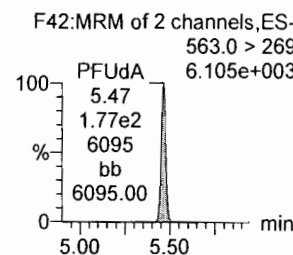
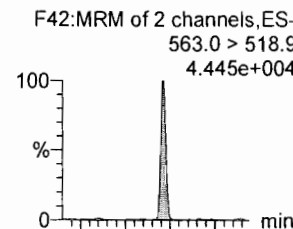
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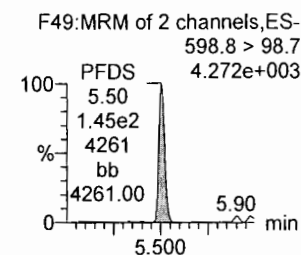
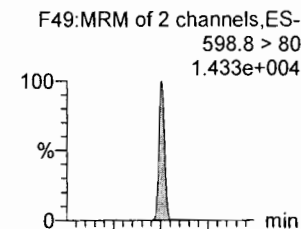
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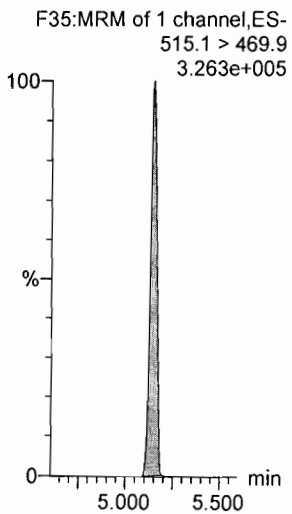
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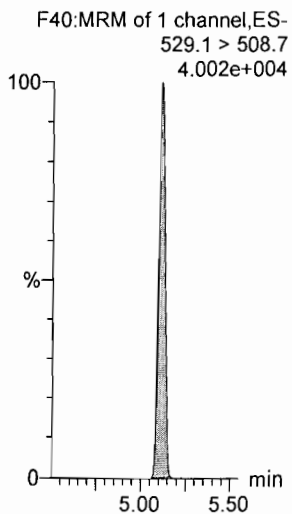
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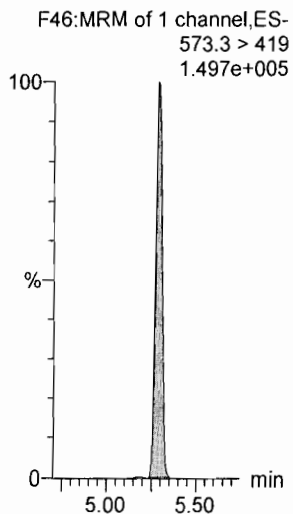
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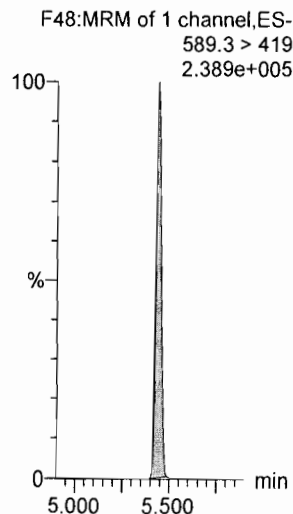
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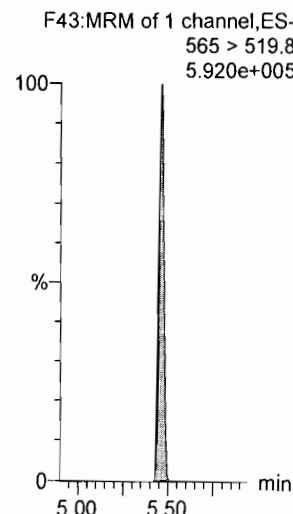
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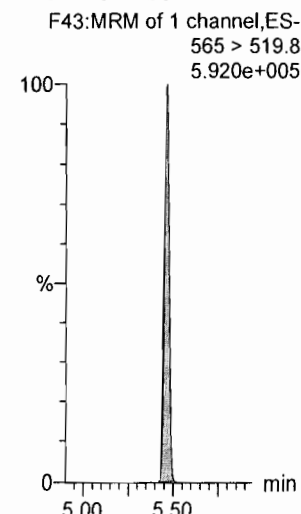
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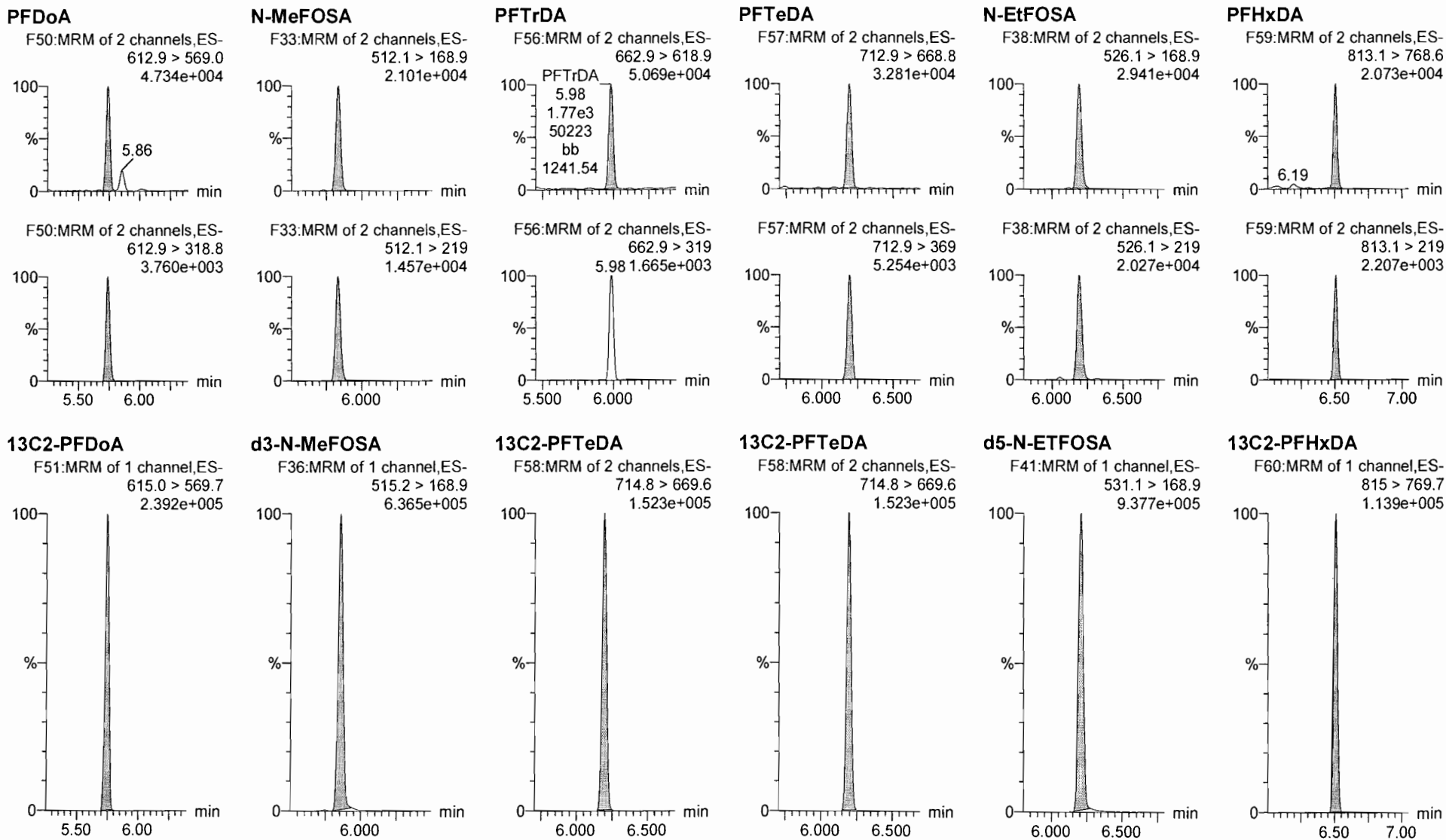


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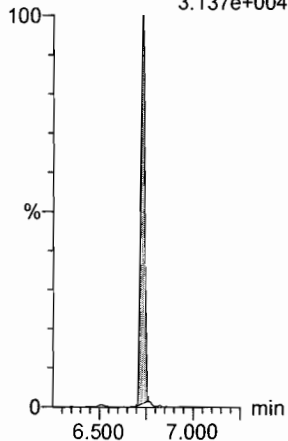
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Printed: Tuesday, January 16, 2018 12:14:40 Pacific Standard Time

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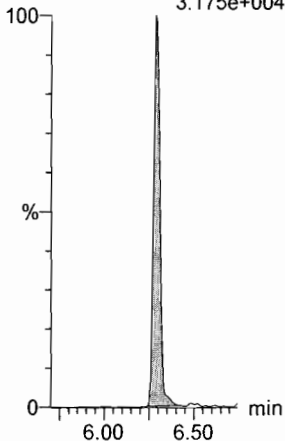
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
3.137e+004



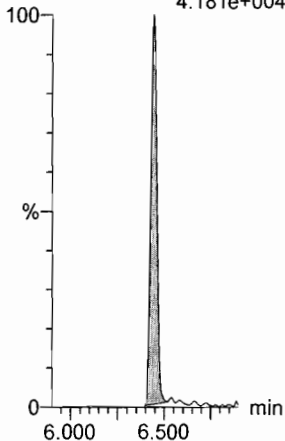
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
3.175e+004



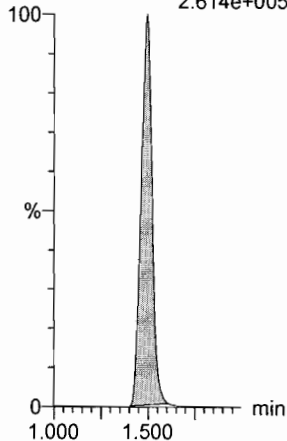
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
4.181e+004



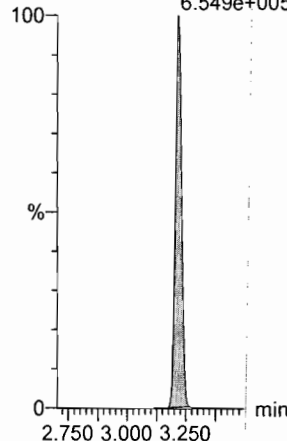
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
2.614e+005



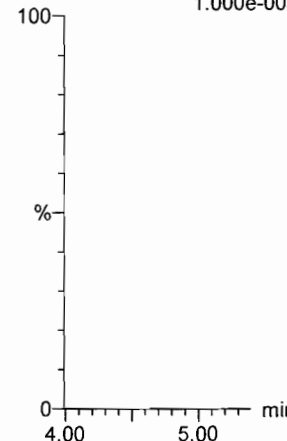
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
6.549e+005



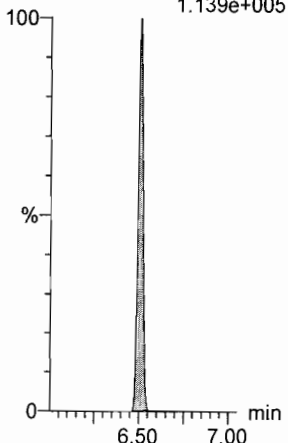
TCDA

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



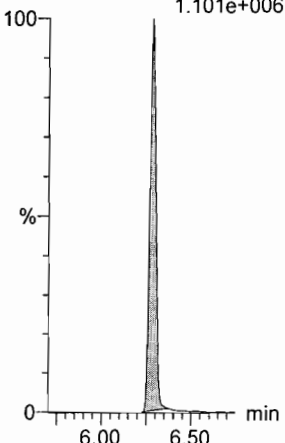
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.139e+005



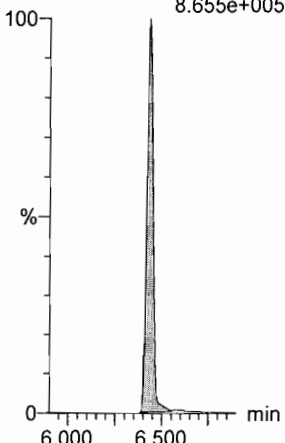
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
1.101e+006



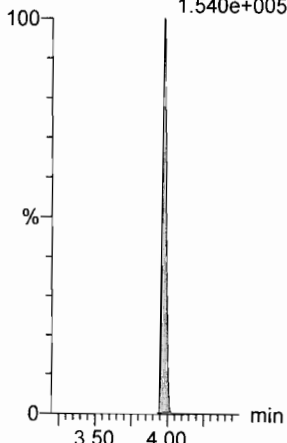
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
8.655e+005



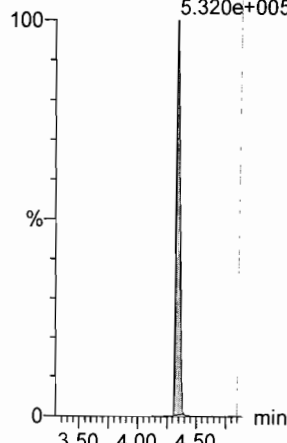
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
1.540e+005



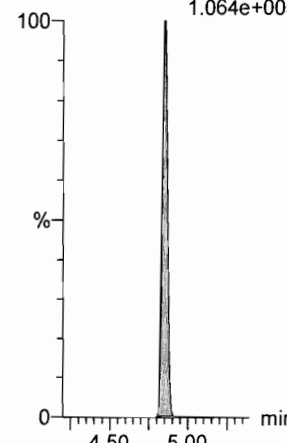
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
5.320e+005



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
1.064e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-60.qld

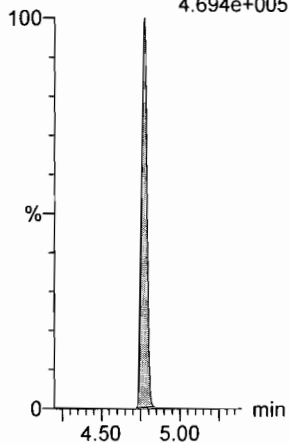
Last Altered: Tuesday, January 16, 2018 12:14:33 Pacific Standard Time

Printed: Tuesday, January 16, 2018 12:14:40 Pacific Standard Time

Name: 180115M2_60, Date: 16-Jan-2018, Time: 11:37:05, ID: ST180115M2-11 PFC CS0 17L2608, Description: PFC CS0 17L2608

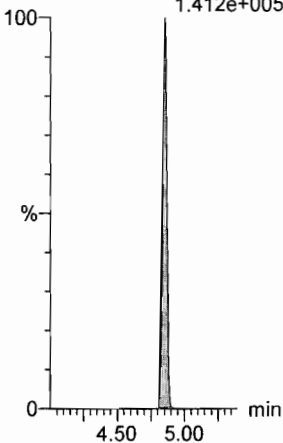
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.694e+005



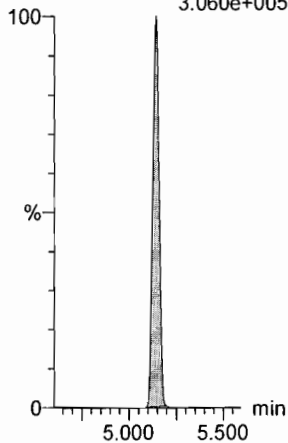
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
1.412e+005



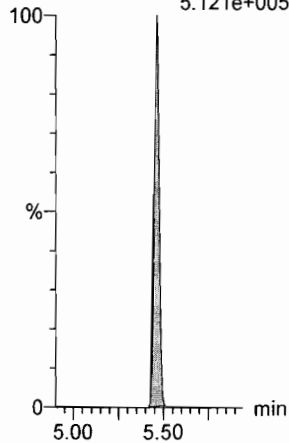
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
3.060e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
5.121e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-88.qld

Last Altered: Wednesday, January 17, 2018 09:19:11 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:19:31 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 16:25:31

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

Name: 180115M2_88, Date: 16-Jan-2018, Time: 17:18:06, ID: ST180115M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

P/16/18
✓ JHA
01/17/2018

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery	Out
1	1 PFBA	213.0 > 168.8	1.31e4	1.14e4		1.64	1.44	14.3	10.7	106.8	NO	20130 ↓ 50-150 ↓
2	2 PFPeA	263.1 > 218.9	1.34e4	1.39e4		2.46	2.40	12.1	10.5	104.9	NO	
3	3 PFBS	299.0 > 79.7	3.07e3	1.69e3		2.87	2.68	22.7	11.8	118.2	NO	
4	4 PFHxA	313.2 > 268.9	1.57e4	4.38e3		3.36	3.17	17.9	10.2	101.8	NO	
5	5 PFHpA	363.0 > 318.9	1.31e4	1.08e4		4.00	3.79	15.3	10.2	102.4	NO	
6	6 L-PFHxS	398.9 > 79.6	2.27e3	1.24e3		3.94	3.94	22.9	11.6	115.9	NO	
7	8 6:2 FTS	427.1 > 407	2.91e3	1.24e3		4.46	4.25	29.3	10.2	102.3	NO	
8	9 L-PFOA	413 > 368.7	1.25e4	1.24e4		4.34	4.31	12.6	10.9	109.5	NO	
9	11 PFHpS	449 > 80.0	3.19e3	1.24e4		4.60	4.42	3.21	11.5	114.6	NO	
10	12 PFNA	463.0 > 418.8	1.29e4	1.22e4		4.94	4.74	13.1	9.64	96.4	NO	
11	13 PFOSA	498.1 > 77.8	3.42e3	3.38e3		5.00	4.80	12.6	10.5	105.1	NO	
12	14 L-PFOS	499 > 79.9	3.47e3	3.29e3		5.02	4.82	13.2	11.8	118.1	NO	
13	16 PFDA	513 > 468.8	1.57e4	1.21e4		5.31	5.11	16.3	11.3	112.9	NO	
14	17 8:2 FTS	527 > 506.9	2.08e3	1.21e4		5.28	5.08	2.15	8.53	85.3	NO	
15	18 N-MeFOSAA	570.1 > 419	8.56e3	5.04e3		5.45	5.26	21.2	13.0	129.6	NO	
16	19 N-EtFOSAA	584.2 > 419	7.42e3	6.45e3		5.60	5.42	14.4	11.1	111.4	NO	
17	20 PFUdA	563.0 > 518.9	1.58e4	1.30e4		5.62	5.43	15.2	12.0	120.3	NO	
18	21 PFDS	598.8 > 80	3.75e3	1.30e4		5.67	5.48	3.62	10.7	107.0	NO	
19	22 PFDoA	612.9 > 569.0	1.48e4	6.67e3		5.91	5.71	27.7	18.9	189.2	YES	
20	23 N-MeFOSA	512.1 > 168.9	1.04e4	2.53e4		5.87	5.80	61.7	55.3	110.5	NO	
21	24 PFTrDA	662.9 > 618.9	1.77e4	6.67e3		6.15	5.96	33.1	15.5	154.9	YES	
22	25 PFTeDA	712.9 > 668.8	7.69e3	4.55e3		6.35	6.17	21.1	6.33	63.3	YES	
23	26 N-EtFOSA	526.1 > 168.9	1.32e4	3.68e4		6.25	6.17	53.6	53.4	106.9	NO	
24	27 PFHxDA	813.1 > 768.6	5.34e3	2.67e3		6.64	6.49	10.0	12.3	122.9	NO	
25	28 PFODA	913.1 > 868.8	6.17e3	2.67e3		6.85	6.72	11.6	12.6	126.4	NO	
26	29 N-MeFOSE	616.1 > 58.9	1.64e4	3.73e4		6.31	6.30	65.9	57.0	114.0	NO	
27	30 N-EtFOSE	630.1 > 58.9	1.52e4	3.87e4		6.45	6.45	58.7	48.4	96.8	NO	
28	31 13C3-PFBA	216.1 > 171.8	1.14e4	1.53e4	0.779	1.64	1.44	9.32	12.0	95.7	NO	
29	32 13C3-PFPeA	266. > 221.8	1.39e4	1.68e4	0.797	2.60	2.40	10.4	13.0	104.0	NO	
30	33 13C3-PFBS	302. > 98.8	1.69e3	1.68e4	0.095	2.87	2.68	1.26	13.2	105.9	NO	
31	34 13C2-PFHxA	315 > 269.8	4.38e3	1.68e4	0.636	3.36	3.17	3.26	5.12	102.5	NO	

Dataset: U:\Q4.PRO\results\180115M2\180115M2-88.qld

Last Altered: Wednesday, January 17, 2018 09:19:11 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:19:31 Pacific Standard Time

Name: 180115M2_88, Date: 16-Jan-2018, Time: 17:18:06, ID: ST180115M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
32	35 13C4-PFHpA	367.2 > 321.8	1.08e4	1.68e4	0.621	4.00	3.79	8.01	12.9	103.3	NO
33	36 18O2-PFHxS	403.0 > 102.6	1.24e3	3.90e3	0.336	4.14	3.94	3.97	11.8	94.6	NO
34	37 13C2-6:2 FTS	429.1 > 408.9	2.43e3	1.46e4	0.192	4.46	4.25	2.08	10.8	86.3	NO
35	38 13C2-PFOA	414.9 > 369.7	1.24e4	1.46e4	1.001	4.50	4.31	10.6	10.6	84.8	NO
36	39 13C5-PFNA	468.2 > 422.9	1.22e4	1.43e4	0.811	4.94	4.74	10.7	13.2	105.7	NO
37	40 13C8-PFOA	506.1 > 77.7	3.38e3	1.35e4	0.196	5.00	4.80	3.13	15.9	127.3	NO
38	41 13C8-PFOS	507.0 > 79.9	3.29e3	3.94e3	0.862	5.02	4.82	10.4	12.1	96.8	NO
39	42 13C2-PFDA	515.1 > 469.9	1.21e4	9.31e3	0.996	5.31	5.11	16.2	16.3	130.1	NO
40	43 13C2-8:2 FTS	529.1 > 508.7	1.10e3	1.68e4	0.103	5.28	5.08	0.818	7.94	63.5	NO
41	44 d3-N-MeFOSAA	573.3 > 419	5.04e3	1.35e4	0.340	5.45	5.26	4.66	13.7	109.6	NO
42	45 d5-N-EtFOSAA	589.3 > 419	6.45e3	1.35e4	0.377	5.60	5.41	5.96	15.8	126.6	NO
43	46 13C2-PFUdA	565 > 519.8	1.30e4	1.35e4	0.944	5.62	5.43	12.0	12.7	101.7	NO
44	47 13C2-PFDoA	615.0 > 569.7	6.67e3	1.35e4	0.726	5.91	5.71	6.17	8.50	68.0	NO
45	48 d3-N-MeFOSA	515.2 > 168.9	2.53e4	1.35e4	0.119	5.87	5.82	23.4	197	131.2	NO
46	49 13C2-PFTeDA	714.8 > 669.6	4.55e3	1.35e4	0.371	6.35	6.17	4.21	11.3	90.6	NO
47	50 d5-N-ETFOSA	531.1 > 168.9	3.68e4	1.35e4	0.174	6.25	6.19	34.1	196	130.8	NO
48	51 13C2-PFHxDA	815 > 769.7	2.67e3	1.35e4	0.559	6.64	6.49	2.47	4.41	88.3	NO
49	52 d7-N-MeFOSE	623.1 > 58.9	3.73e4	1.35e4	0.179	6.31	6.29	34.5	192	128.3	NO
50	53 d9-N-EtFOSE	639.2 > 58.8	3.87e4	1.35e4	0.160	6.45	6.44	35.8	224	149.5	NO
51	54 13C4-PFBA	217. > 171.8	1.53e4	1.53e4	1.000	1.64	1.43	12.5	12.5	100.0	NO
52	55 13C5-PFHxA	318 > 272.9	1.68e4	1.68e4	1.000	3.36	3.17	12.5	12.5	100.0	NO
53	56 13C3-PFHxS	401.9 > 79.9	3.90e3	3.90e3	1.000	4.14	3.94	12.5	12.5	100.0	NO
54	57 13C8-PFOA	421.3 > 376	1.46e4	1.46e4	1.000	4.50	4.31	12.5	12.5	100.0	NO
55	58 13C9-PFNA	472.2 > 426.9	1.43e4	1.43e4	1.000	4.94	4.74	12.5	12.5	100.0	NO
56	59 13C4-PFOS	503 > 79.9	3.94e3	3.94e3	1.000	5.02	4.82	12.5	12.5	100.0	NO
57	60 13C6-PFDA	519.1 > 473.7	9.31e3	9.31e3	1.000	5.31	5.11	12.5	12.5	100.0	NO
58	61 13C7-PFUdA	570.1 > 524.8	1.35e4	1.35e4	1.000	5.62	5.43	12.5	12.5	100.0	NO

50-150

Dataset: Untitled

Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Method: U:\Q4.PROMethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

Calibration: 17 Jan 2018 11:36:15

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180115M2_1	ST180115M2-1 PFC CS-2 17L2606	16-Jan-18	00:14:07
2	180115M2_2	ST180115M2-2 PFC CS-1 17L2607	16-Jan-18	00:25:32
3	180115M2_3	ST180115M2-3 PFC CS0 17L2608	16-Jan-18	00:37:02
4	180115M2_4	ST180115M2-4 PFC CS1 17L2609	16-Jan-18	00:48:46
5	180115M2_5	ST180115M2-5 PFC CS2 17L2610	16-Jan-18	01:00:17
6	180115M2_6	ST180115M2-6 PFC CS3 17L2611	16-Jan-18	01:11:44
7	180115M2_7	ST180115M2-7 PFC CS4 17L1208	16-Jan-18	01:23:11
8	180115M2_8	ST180115M2-8 PFC CS5 17L2613	16-Jan-18	01:34:38
9	180115M2_9	IPA	16-Jan-18	01:46:05
10	180115M2_10	ICV180115M2-1 PFC ICV 17L1201	16-Jan-18	01:57:31
11	180115M2_11	IPA	16-Jan-18	02:08:58
12	180115M2_12	1701851-03 FT-PZ-455S-20171202 0.2638	16-Jan-18	02:20:26
13	180115M2_13	1701851-04 FT-PZ-455I-20171202 0.25637	16-Jan-18	02:31:52
14	180115M2_14	1701851-05 FT-PZ-453S-20171202 0.23285	16-Jan-18	02:43:19
15	180115M2_15	1701851-06 FT-PZ-453S-FRB-20171202 0.26159	16-Jan-18	02:54:46
16	180115M2_16	1701851-07 FT-PZ-456I-FRB-20171204 0.2536	16-Jan-18	03:06:13
17	180115M2_17	1701851-08 FT-PZ-456I-20171204 0.26041	16-Jan-18	03:17:39
18	180115M2_18	1701851-09 FT-PZ-456S-20171204 0.25898	16-Jan-18	03:29:06
19	180115M2_19	1701944-01 GW-PT-CHIN-254.5-260.5 0.11993	16-Jan-18	03:40:33
20	180115M2_20	1701944-02 GW-PT-CHIN-71-77 0.11916	16-Jan-18	03:52:00
21	180115M2_21	1701944-03 GW-PT-CHIN-178-184 0.11889	16-Jan-18	04:03:27
22	180115M2_22	1701944-04 GW-PT-CHIN-108-114 0.12008	16-Jan-18	04:14:54
23	180115M2_23	1701944-05 GW-PT-CHIN-57-63 0.11948	16-Jan-18	04:26:21
24	180115M2_24	1701944-06 FB-PT-Diwater 0.11902	16-Jan-18	04:37:48
25	180115M2_25	IPA	16-Jan-18	04:49:15
26	180115M2_26	ST180115M2-9 PFC CS3 17L2611	16-Jan-18	05:00:41
27	180115M2_27	IPA	16-Jan-18	05:12:08
28	180115M2_28	1701944-07 GW-PT-CHIN-254.5-260.5-Dup 0.1...	16-Jan-18	05:23:43
29	180115M2_29	1701944-08 GW-PT-CHIN-116-122 0.11949	16-Jan-18	05:35:10
30	180115M2_30	1701944-09 EB-PT-Waterlevel 0.10468	16-Jan-18	05:46:37
31	180115M2_31	1701944-10 EB-PT-grundfos 0.11733	16-Jan-18	05:58:04

Dataset: Untitled

Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	180115M2_32	1701944-11 GW-PT-CHIN-170-176 0.11561	16-Jan-18	06:09:30
33	180115M2_33	1701944-12 GW-PT-CHIN-271.5-277.5 0.11931	16-Jan-18	06:20:58
34	180115M2_34	1701944-13 EB-PT-Packers 0.11813	16-Jan-18	06:32:24
35	180115M2_35	B7L0120-BS1 OPR 0.25	16-Jan-18	06:43:51
36	180115M2_36	B7L0120-BSD1 LCSD 0.25	16-Jan-18	06:55:18
37	180115M2_37	IPA	16-Jan-18	07:06:45
38	180115M2_38	B7L0120-BLK1 Method Blank 0.25	16-Jan-18	07:18:12
39	180115M2_39	1701886-01 YS22-EB01-120417 0.11748	16-Jan-18	07:29:39
40	180115M2_40	1701886-02 YS22-AQ-120517 0.11801	16-Jan-18	07:41:05
41	180115M2_41	1701886-03 YS22-GW18-1217 0.11927	16-Jan-18	07:52:32
42	180115M2_42	IPA	16-Jan-18	08:04:00
43	180115M2_43	ST180115M2-10 PFC CS3 17L2611	16-Jan-18	08:15:26
44	180115M2_44	IPA	16-Jan-18	08:26:53
45	180115M2_45	B7L0183-BS1 OPR 0.25	16-Jan-18	08:38:20
46	180115M2_46	B7L0183-BSD1 LCSD 0.25	16-Jan-18	08:49:46
47	180115M2_47	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	09:01:13
48	180115M2_48	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	09:12:40
49	180115M2_49	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	09:24:07
50	180115M2_50	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	09:42:12
51	180115M2_51	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	09:53:46
52	180115M2_52	1701953-05 SA-MW127S-FRB-20171213 0.255...	16-Jan-18	10:05:14
53	180115M2_53	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	10:16:50
54	180115M2_54	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	10:28:24
55	180115M2_55	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	10:39:51
56	180115M2_56	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	10:51:18
57	180115M2_57	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	11:02:44
58	180115M2_58	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	11:14:11
59	180115M2_59	IPA	16-Jan-18	11:25:38
60	180115M2_60	ST180115M2-11 PFC CS0 17L2608	16-Jan-18	11:37:05
61	180115M2_61	IPA	16-Jan-18	11:48:32
62	180115M2_62	1701905-03RE1@40X WINF1712061655JLB 0....	16-Jan-18	11:59:59
63	180115M2_63	1701852-01@20X IR03-MW034-C2-17D 0.26646	16-Jan-18	12:11:26
64	180115M2_64	1701852-02@20X IR03-MW018B-C1-17D 0.25...	16-Jan-18	12:22:53
65	180115M2_65	1701852-03@40X IR03-MW018A-C2-17D 0.26...	16-Jan-18	12:34:19

Dataset: Untitled

Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	180115M2_66	1701852-03@20X IR03-MW018A-C2-17D 0.26...	16-Jan-18	12:45:47
67	180115M2_67	IPA	16-Jan-18	12:57:13
68	180115M2_68	1701852-02 IR03-MW018B-C1-17D 0.25583	16-Jan-18	13:08:40
69	180115M2_69	IPA	16-Jan-18	13:20:07
70	180115M2_70	1701840-05 YS22-GW10-1217 0.11512	16-Jan-18	13:31:34
71	180115M2_71	IPA	16-Jan-18	13:43:01
72	180115M2_72	ST180115M2-12 PFC CS3 17L2611	16-Jan-18	13:54:28
73	180115M2_73	IPA	16-Jan-18	14:05:55
74	180115M2_74	B7L0208-BS1 OPR 0.25	16-Jan-18	14:17:32
75	180115M2_75	B7L0208-BLK1 Method Blank 0.25	16-Jan-18	14:29:05
76	180115M2_76	1701820-01RE1 WR1711281315MK 0.25712	16-Jan-18	15:00:31
77	180115M2_77	1701820-02RE1 WR1711281330MK 0.24648	16-Jan-18	15:12:02
78	180115M2_78	1701820-03RE1 WR1711281345MK 0.25579	16-Jan-18	15:23:29
79	180115M2_79	1701820-04RE1 WT1711281420MK 0.26647	16-Jan-18	15:34:56
80	180115M2_80	1701820-05RE1 WT1711281440MK 0.25752	16-Jan-18	15:46:23
81	180115M2_81	1701820-06RE1 FB1711281445MK 0.2552	16-Jan-18	15:57:50
82	180115M2_82	1701820-07RE1 WT1711281535MK 0.25433	16-Jan-18	16:09:17
83	180115M2_83	1701820-08RE1 WR1711281555MK 0.26231	16-Jan-18	16:20:43
84	180115M2_84	1701820-09RE1 WR1711290820MK 0.24977	16-Jan-18	16:32:11
85	180115M2_85	1701820-10RE1 WT1711290835MK 0.26178	16-Jan-18	16:43:37
86	180115M2_86	1701820-11RE1 WT1711290845MK 0.26795	16-Jan-18	16:55:04
87	180115M2_87	IPA	16-Jan-18	17:06:34
88	180115M2_88	ST180115M2-13 PFC CS3 17L2611	16-Jan-18	17:18:06
89	180115M2_89	IPA	16-Jan-18	17:29:33
90	180115M2_90	1701820-12RE1 WT1711290910MK 0.2463	16-Jan-18	17:41:00
91	180115M2_91	1701820-13RE1 WT1711290925MK 0.2633	16-Jan-18	17:52:26
92	180115M2_92	1701820-14RE1 WR1711290940MK 0.2514	16-Jan-18	18:03:53
93	180115M2_93	1701820-15RE1 WR1711290950MK 0.25988	16-Jan-18	18:15:20
94	180115M2_94	B7L0183-BS1 OPR 0.25	16-Jan-18	18:26:47
95	180115M2_95	B7L0183-BSD1 LCSD 0.25	16-Jan-18	18:38:14
96	180115M2_96	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	18:49:41
97	180115M2_97	1701953-01@5X CV-Dup09-20171213 0.2568	16-Jan-18	19:01:07
98	180115M2_98	1701953-03@5X SA-MW126S-20171213 0.242...	16-Jan-18	19:12:35
99	180115M2_99	1701953-08@5X SA-PZ1231-20171213 0.25702	16-Jan-18	19:24:01

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Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Compound name: PFBA

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100	180115M2_100	1701953-09@5X SA-PZ123I1-20171213 0.25747	16-Jan-18	19:35:28
101	180115M2_101	1701953-10@5X SA-PZ118S-20171213 0.23505	16-Jan-18	19:46:55
102	180115M2_102	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	19:58:22
103	180115M2_103	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	20:09:49
104	180115M2_104	IPA	16-Jan-18	20:21:16
105	180115M2_105	ST180115M2-14 PFC CS0 17L2608	16-Jan-18	20:32:42
106	180115M2_106	IPA	16-Jan-18	20:44:08
107	180115M2_107	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	20:55:35
108	180115M2_108	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	21:07:02
109	180115M2_109	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	21:18:29
110	180115M2_110	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	21:29:55
111	180115M2_111	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	21:41:23
112	180115M2_112	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	21:52:49
113	180115M2_113	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	22:04:16
114	180115M2_114	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	22:15:43
115	180115M2_115	IPA	16-Jan-18	22:27:10
116	180115M2_116	1701905-04RE1 WR1712070930JNR 0.25	16-Jan-18	22:38:37
117	180115M2_117	ST180115M2-15 PFC CS3 17L2611	16-Jan-18	22:50:04
118	180115M2_118	IPA	16-Jan-18	23:01:30

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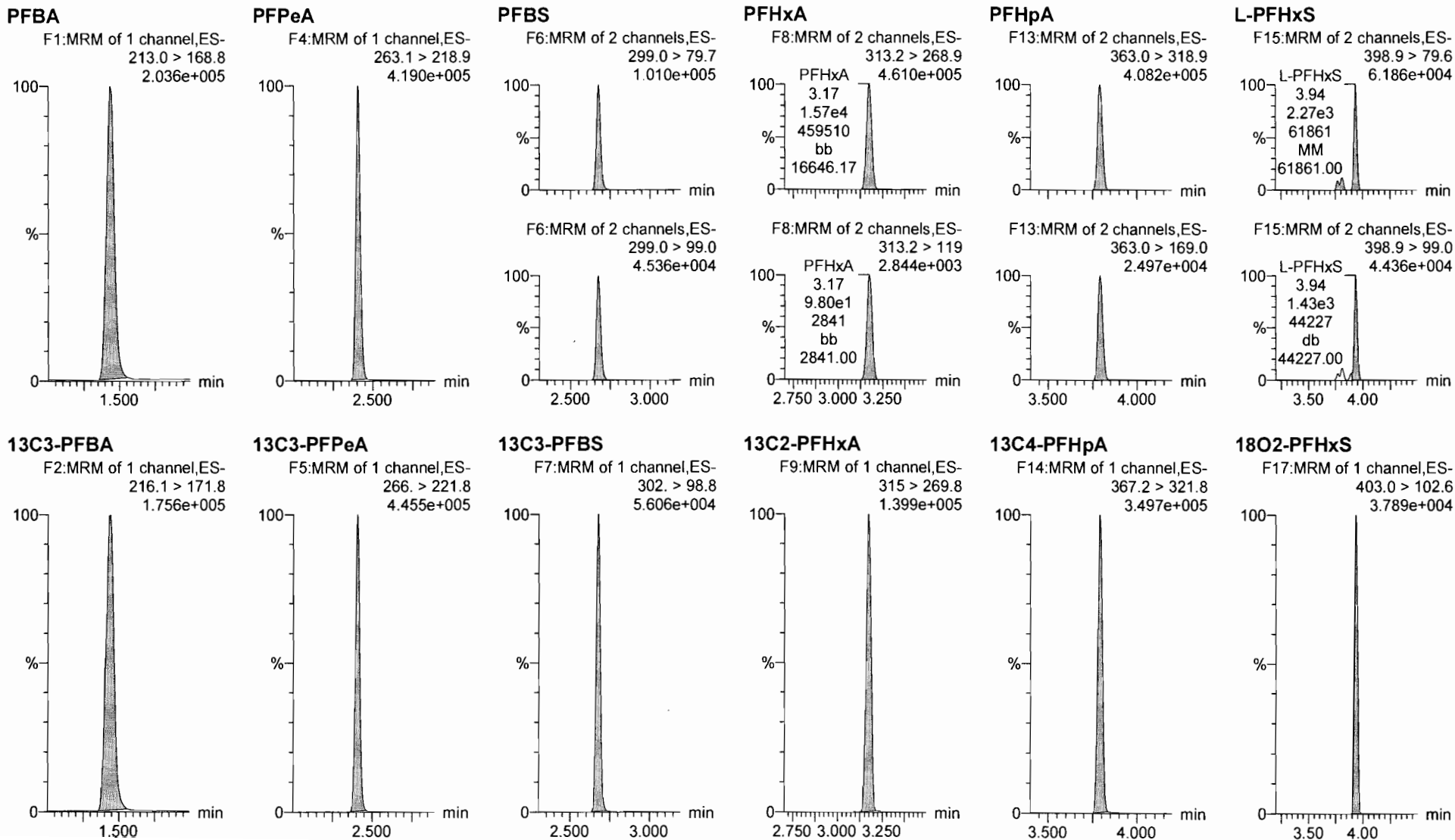
Last Altered: Wednesday, January 17, 2018 09:19:11 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:19:31 Pacific Standard Time

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

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-88.qld

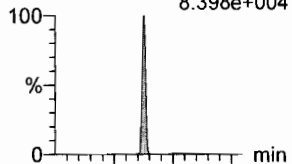
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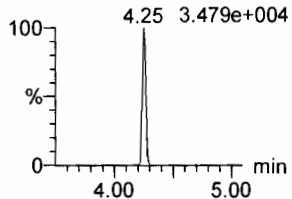
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6:2 FTS

F21:MRM of 2 channels,ES-
427.1 > 407
8.398e+004

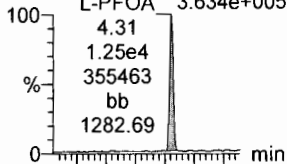


F21:MRM of 2 channels,ES-
427.1 > 80
3.479e+004

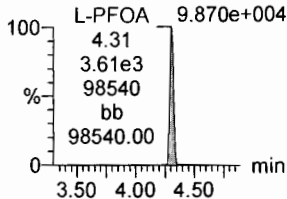


L-PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
3.634e+005

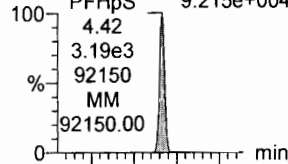


F18:MRM of 2 channels,ES-
413 > 169
9.870e+004

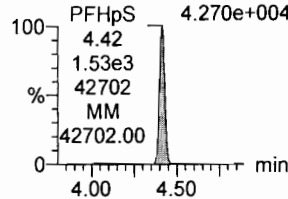


PFHpS

F23:MRM of 2 channels,ES-
449 > 80.0
9.215e+004

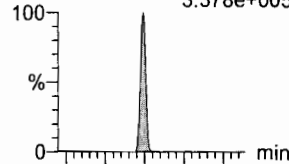


F23:MRM of 2 channels,ES-
449 > 98.7
4.270e+004

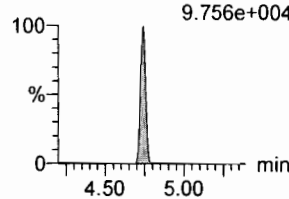


PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
3.378e+005

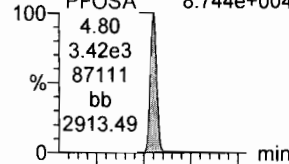


F24:MRM of 2 channels,ES-
463.0 > 219.0
9.756e+004

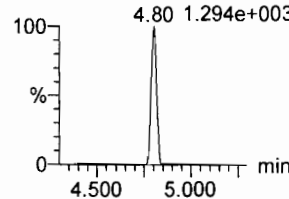


PFOSA

F27:MRM of 2 channels,ES-
498.1 > 77.8
8.744e+004

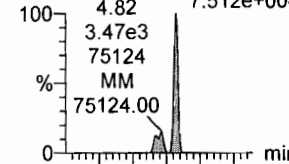


F27:MRM of 2 channels,ES-
498.1 > 478
1.294e+003

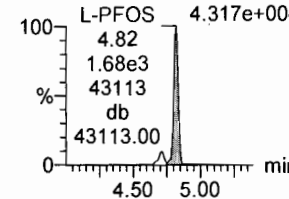


L-PFOS

F29:MRM of 2 channels,ES-
499 > 79.9
7.512e+004

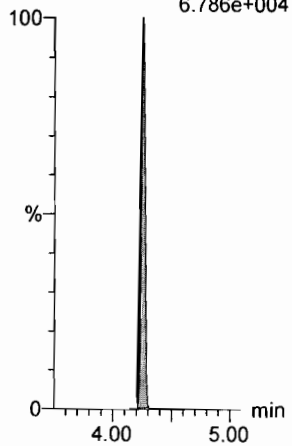


F29:MRM of 2 channels,ES-
499 > 99
4.317e+004



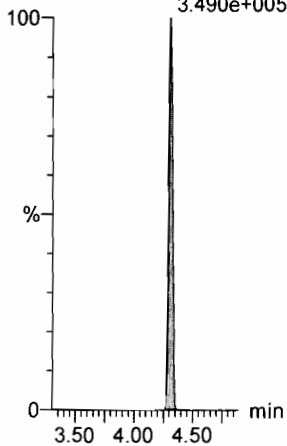
13C2-6:2 FTS

F22:MRM of 1 channel,ES-
429.1 > 408.9
6.786e+004



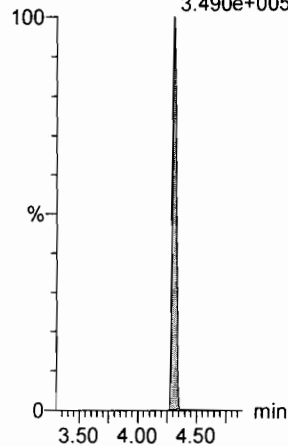
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
3.490e+005



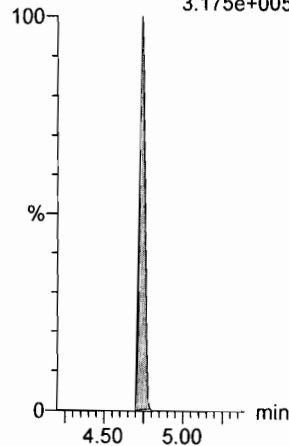
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
3.490e+005



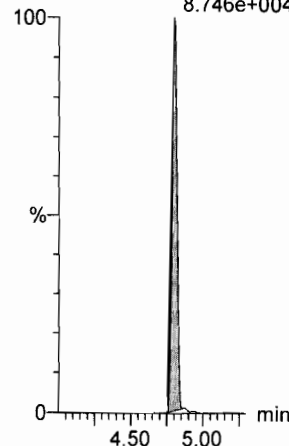
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
3.175e+005



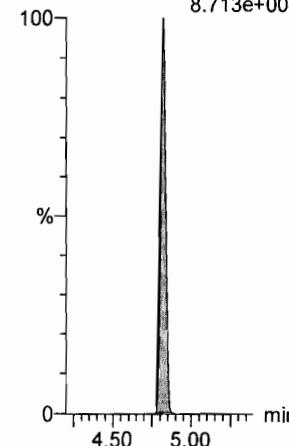
13C8-PFOSA

F31:MRM of 1 channel,ES-
506.1 > 77.7
8.746e+004



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
8.713e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-88.qld

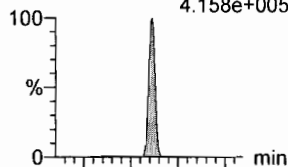
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Printed: Wednesday, January 17, 2018 09:19:31 Pacific Standard Time

Name: 180115M2_88, Date: 16-Jan-2018, Time: 17:18:06, ID: ST180115M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

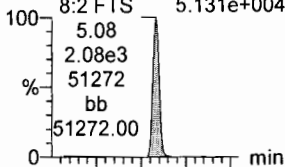
PFDA

F34:MRM of 2 channels,ES-
513 > 468.8
4.158e+005



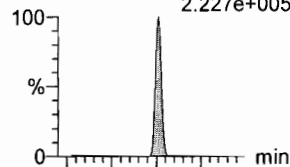
8:2 FTS

F39:MRM of 2 channels,ES-
527 > 506.9
5.131e+004



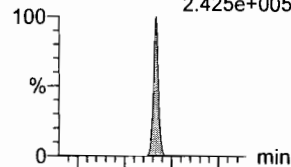
N-MeFOSAA

F44:MRM of 2 channels,ES-
570.1 > 419
2.227e+005



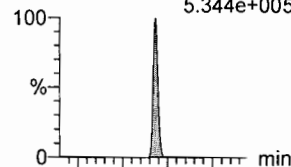
N-EtFOSAA

F47:MRM of 2 channels,ES-
584.2 > 419
2.425e+005



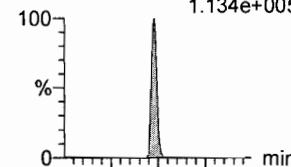
PFUdA

F42:MRM of 2 channels,ES-
563.0 > 518.9
5.344e+005

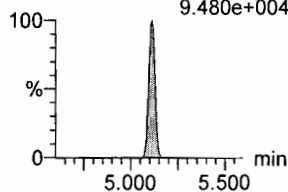


PFDS

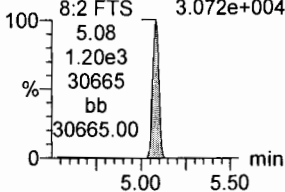
F49:MRM of 2 channels,ES-
598.8 > 80
1.134e+005



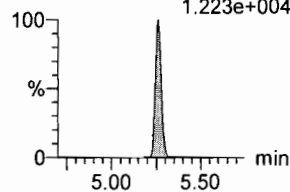
F34:MRM of 2 channels,ES-
513 > 219
9.480e+004



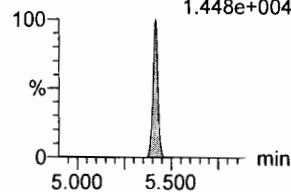
F39:MRM of 2 channels,ES-
527 > 80
3.072e+004



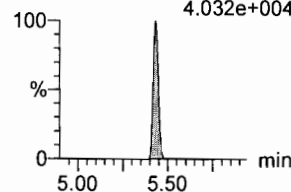
F44:MRM of 2 channels,ES-
570.1 > 483.0
1.223e+004



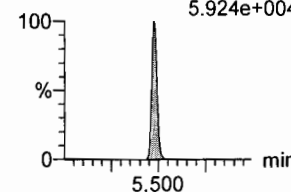
F47:MRM of 2 channels,ES-
584.2 > 483.0
1.448e+004



F42:MRM of 2 channels,ES-
563.0 > 269
4.032e+004

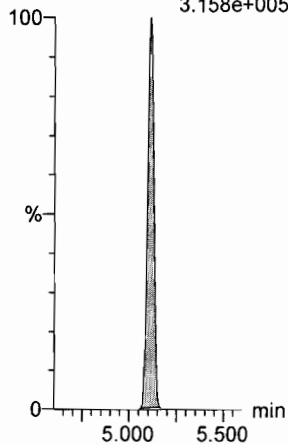


F49:MRM of 2 channels,ES-
598.8 > 98.7
5.924e+004



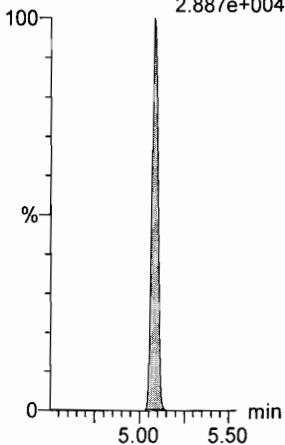
13C2-PFDA

F35:MRM of 1 channel,ES-
515.1 > 469.9
3.158e+005



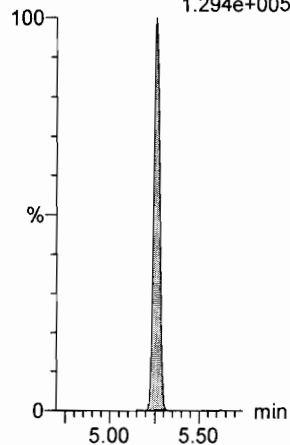
13C2-8:2 FTS

F40:MRM of 1 channel,ES-
529.1 > 508.7
2.887e+004



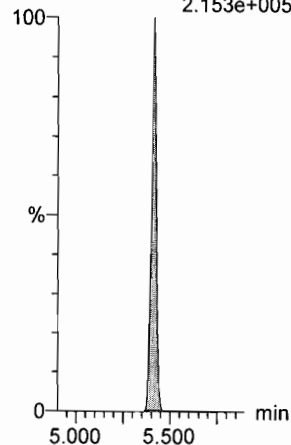
d3-N-MeFOSAA

F46:MRM of 1 channel,ES-
573.3 > 419
1.294e+005



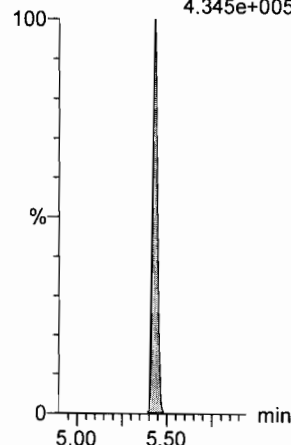
d5-N-EtFOSAA

F48:MRM of 1 channel,ES-
589.3 > 419
2.153e+005



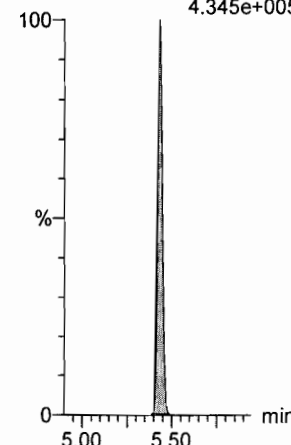
13C2-PFUdA

F43:MRM of 1 channel,ES-
565 > 519.8
4.345e+005



13C2-PFUdA

F43:MRM of 1 channel,ES-
565 > 519.8
4.345e+005



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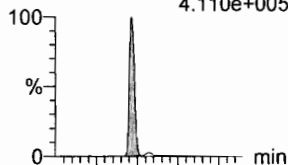
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Printed: Wednesday, January 17, 2018 09:19:31 Pacific Standard Time

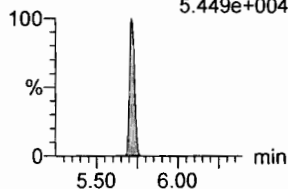
Name: 180115M2_88, Date: 16-Jan-2018, Time: 17:18:06, ID: ST180115M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

PFD_oA

F50:MRM of 2 channels,ES-
612.9 > 569.0
4.110e+005

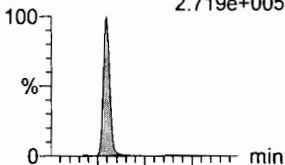


F50:MRM of 2 channels,ES-
612.9 > 318.8
5.449e+004

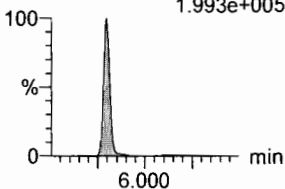


N-MeFOSA

F33:MRM of 2 channels,ES-
512.1 > 168.9
2.719e+005

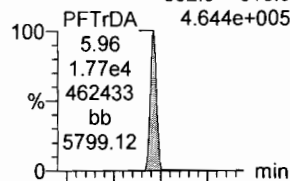


F33:MRM of 2 channels,ES-
512.1 > 219
1.993e+005

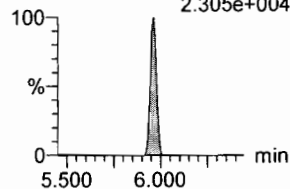


PFT_rDA

F56:MRM of 2 channels,ES-
662.9 > 618.9
4.644e+005

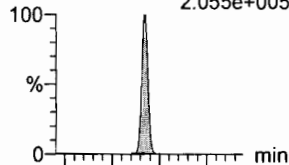


F56:MRM of 2 channels,ES-
662.9 > 319
2.305e+004

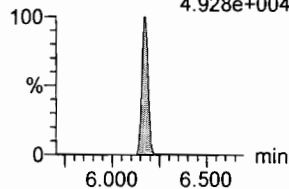


PFT_eDA

F57:MRM of 2 channels,ES-
712.9 > 668.8
2.055e+005

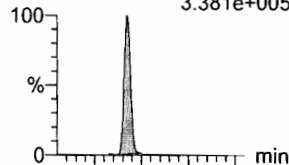


F57:MRM of 2 channels,ES-
712.9 > 369
4.928e+004

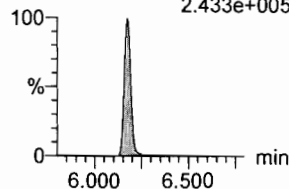


N-EtFOSA

F38:MRM of 2 channels,ES-
526.1 > 168.9
3.381e+005

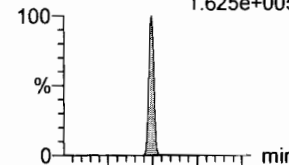


F38:MRM of 2 channels,ES-
526.1 > 219
2.433e+005

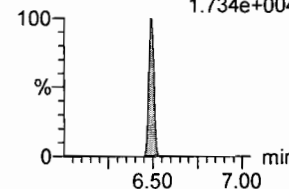


PFH_xDA

F59:MRM of 2 channels,ES-
813.1 > 768.6
1.625e+005

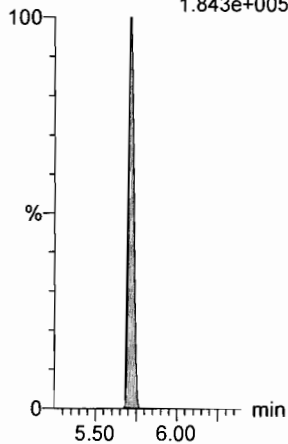


F59:MRM of 2 channels,ES-
813.1 > 219
1.734e+004



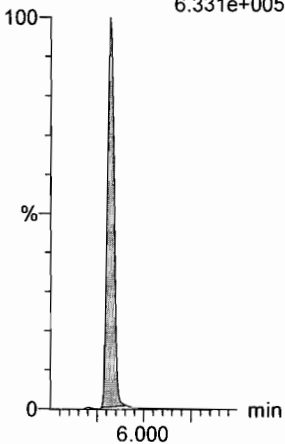
13C2-PFD_oA

F51:MRM of 1 channel,ES-
615.0 > 569.7
1.843e+005



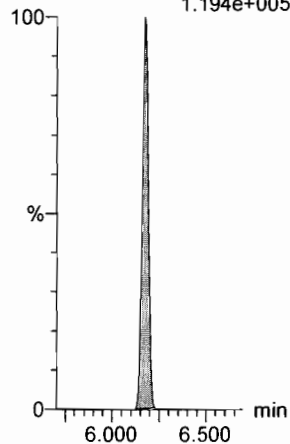
d3-N-MeFOSA

F36:MRM of 1 channel,ES-
515.2 > 168.9
6.331e+005



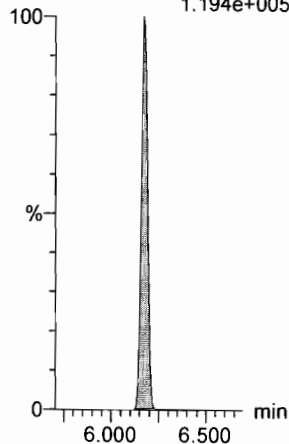
13C2-PFT_rDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.194e+005



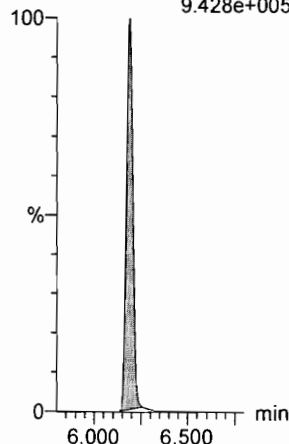
13C2-PFT_eDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.194e+005



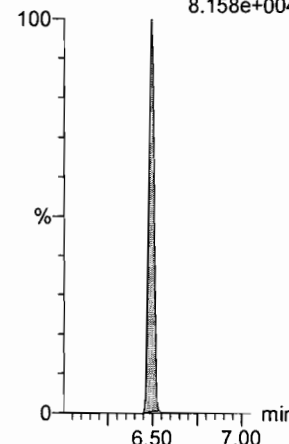
d5-N-ETFOSA

F41:MRM of 1 channel,ES-
531.1 > 168.9
9.428e+005



13C2-PFH_xDA

F60:MRM of 1 channel,ES-
815 > 769.7
8.158e+004



Dataset: U:\Q4.PRO\results\180115M2\180115M2-88.qld

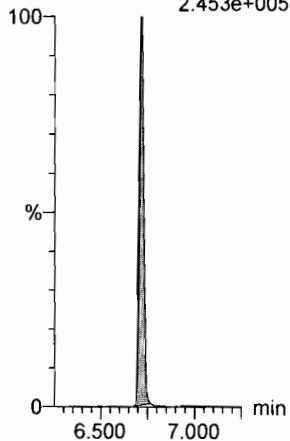
Last Altered: Wednesday, January 17, 2018 09:19:11 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:19:31 Pacific Standard Time

Name: 180115M2_88, Date: 16-Jan-2018, Time: 17:18:06, ID: ST180115M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

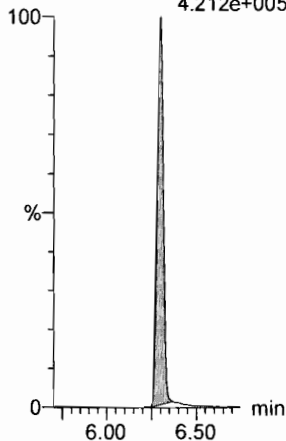
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.453e+005



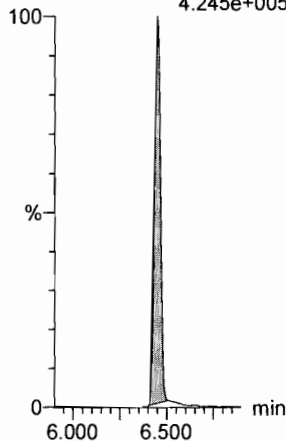
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
4.212e+005



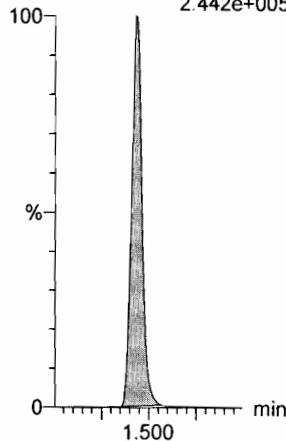
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
4.245e+005



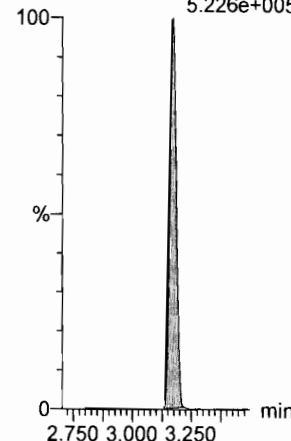
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
2.442e+005



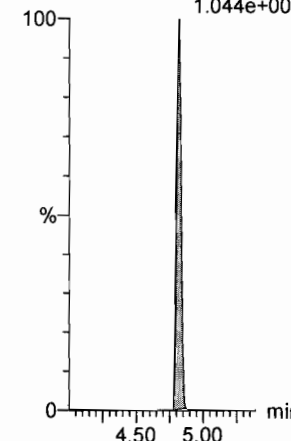
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
5.226e+005



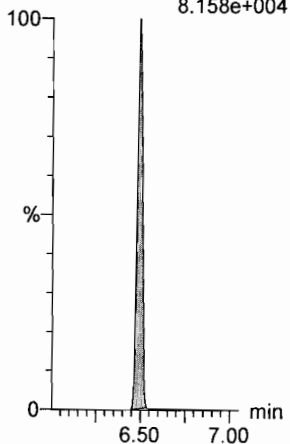
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
1.044e+005



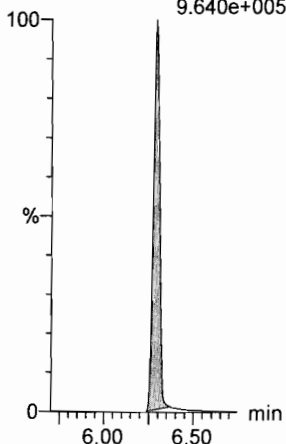
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
8.158e+004



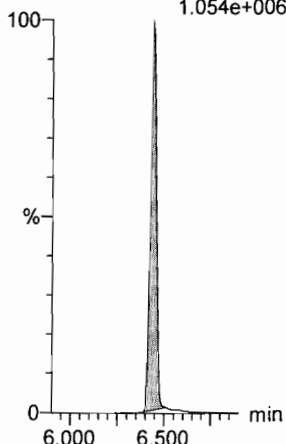
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
9.640e+005



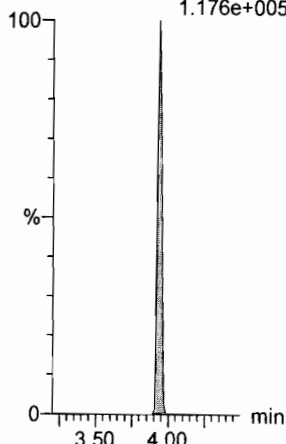
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
1.054e+006



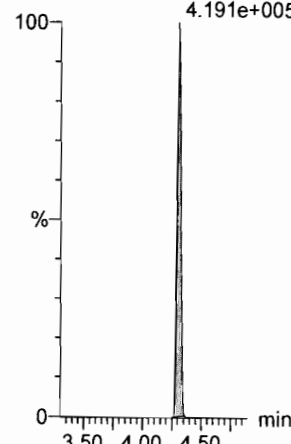
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
1.176e+005



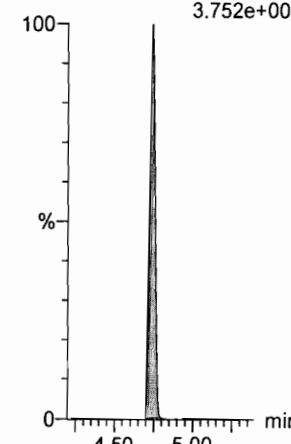
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
4.191e+005



13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.752e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-88.qld

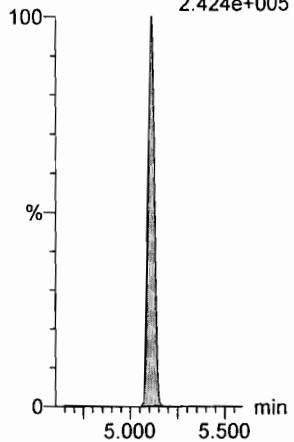
Last Altered: Wednesday, January 17, 2018 09:19:11 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:19:31 Pacific Standard Time

Name: 180115M2_88, Date: 16-Jan-2018, Time: 17:18:06, ID: ST180115M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

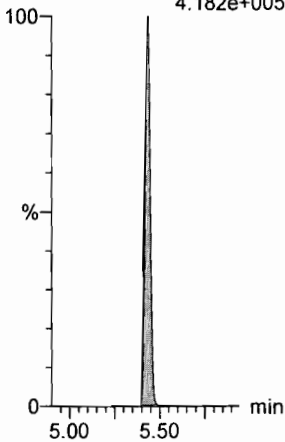
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.424e+005



13C7-PFUDa

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.182e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-105.qld

Last Altered: Wednesday, January 17, 2018 09:20:16 Pacific Standard Time
 Printed: Wednesday, January 17, 2018 09:20:31 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29
 Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

CP 1/16/18
J.A. 01/17/2018

Name: 180115M2_105, Date: 16-Jan-2018, Time: 20:32:42, ID: ST180115M2-14 PFC CS0 17L2608, Description: PFC CS0 17L2608

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery	Out
1	1 PFBA	213.0 > 168.8	1.49e3	1.41e4		1.64	1.44	1.32	1.01	101.2	NO	70-130
2	2 PFPeA	263.1 > 218.9	1.49e3	1.58e4		2.46	2.40	1.17	1.05	104.5	NO	
3	3 PFBS	299.0 > 79.7	3.32e2	2.08e3		2.87	2.67	1.99	0.935	93.5	NO	
4	4 PFHxA	313.2 > 268.9	1.85e3	4.93e3		3.36	3.16	1.88	1.06	106.0	NO	
5	5 PFHpA	363.0 > 318.9	1.29e3	1.25e4		4.00	3.78	1.29	0.901	90.1	NO	
6	6 L-PFHxS	398.9 > 79.6	2.14e2	1.49e3		3.94	3.93	1.80	0.836	83.6	NO	
7	8 6:2 FTS	427.1 > 407	3.45e2	1.49e3		4.46	4.24	2.89	1.03	103.2	NO	
8	9 L-PFOA	413 > 368.7	1.78e3	1.78e4		4.34	4.30	1.25	0.803	80.3	NO	
9	11 PFHpS	449 > 80.0	3.46e2	1.78e4		4.60	4.41	0.243	0.919	91.9	NO	
10	12 PFNA	463.0 > 418.8	1.42e3	1.39e4		4.94	4.73	1.28	0.965	96.5	NO	
11	13 PFOSA	498.1 > 77.8	4.30e2	3.84e3		5.00	4.79	1.40	1.18	117.9	NO	
12	14 L-PFOS	499 > 79.9	4.07e2	4.24e3		5.02	4.81	1.20	1.12	112.0	NO	
13	16 PFDA	513 > 468.8	1.46e3	1.15e4		5.31	5.10	1.59	1.10	110.2	NO	
14	17 8:2 FTS	527 > 506.9	2.41e2	1.15e4		5.28	5.07	0.263	1.12	111.9	NO	
15	18 N-MeFOSAA	570.1 > 419	1.04e3	6.68e3		5.45	5.25	1.94	1.16	115.7	NO	
16	19 N-EiFOSAA	584.2 > 419	6.69e2	7.48e3		5.60	5.41	1.12	0.907	90.7	NO	
17	20 PFUdA	563.0 > 518.9	1.59e3	1.50e4		5.62	5.43	1.33	1.16	116.2	NO	
18	21 PFDS	598.8 > 80	3.87e2	1.50e4		5.67	5.47	0.323	1.06	106.3	NO	
19	22 PFDoA	612.9 > 569.0	1.76e3	9.48e3		5.91	5.70	2.32	1.45	144.7	YES	
20	23 N-MeFOSA	512.1 > 168.9	9.93e2	2.76e4		5.87	5.79	5.40	4.92	98.4	NO	
21	24 PFTTrDA	662.9 > 618.9	1.90e3	9.48e3		6.15	5.95	2.51	1.15	114.6	NO	
22	25 PFTeDA	712.9 > 668.8	1.13e3	6.26e3		6.35	6.17	2.25	0.732	73.2	NO	
23	26 N-EiFOSA	526.1 > 168.9	1.27e3	4.18e4		6.25	6.17	4.56	4.70	93.9	NO	
24	27 PFHxDA	813.1 > 768.6	7.62e2	3.33e3		6.64	6.48	1.14	1.26	126.0	NO	
25	28 PFODA	913.1 > 868.8	6.80e2	3.33e3		6.85	6.71	1.02	1.08	108.2	NO	
26	29 N-MeFOSE	616.1 > 58.9	1.50e3	3.93e4		6.31	6.29	5.73	5.34	106.8	NO	
27	30 N-EiFOSE	630.1 > 58.9	1.67e3	4.38e4		6.45	6.45	5.72	4.61	92.3	NO	
28	31 13C3-PFBA	216.1 > 171.8	1.41e4	1.82e4	0.779	1.64	1.44	9.68	12.4	99.4	NO	
29	32 13C3-PFPeA	266. > 221.8	1.58e4	1.90e4	0.797	2.60	2.40	10.4	13.0	104.3	NO	
30	33 13C3-PFBS	302. > 98.8	2.08e3	1.90e4	0.095	2.87	2.67	1.37	14.4	115.2	NO	
31	34 13C2-PFHxA	315 > 269.8	4.93e3	1.90e4	0.636	3.36	3.16	3.24	5.09	101.8	NO	

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-105.qld

Last Altered: Wednesday, January 17, 2018 09:20:16 Pacific Standard Time
 Printed: Wednesday, January 17, 2018 09:20:31 Pacific Standard Time

Name: 180115M2_105, Date: 16-Jan-2018, Time: 20:32:42, ID: ST180115M2-14 PFC CS0 17L2608, Description: PFC CS0 17L2608

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery	Out
32	35	13C4-PFHpA	367.2 > 321.8	1.25e4	1.90e4	0.621	4.00	3.78	8.23	13.3	106.1	NO
33	36	18O2-PFHxS	403.0 > 102.6	1.49e3	4.67e3	0.336	4.14	3.93	3.99	11.9	95.1	NO
34	37	13C2-6:2 FTS	429.1 > 408.9	3.29e3	1.83e4	0.192	4.46	4.24	2.24	11.7	93.2	NO
35	38	13C2-PFOA	414.9 > 369.7	1.78e4	1.83e4	1.001	4.50	4.30	12.1	12.1	97.0	NO
36	39	13C5-PFNA	468.2 > 422.9	1.39e4	1.92e4	0.811	4.94	4.73	9.06	11.2	89.3	NO
37	40	13C8-PFOSA	506.1 > 77.7	3.84e3	1.56e4	0.196	5.00	4.79	3.08	15.7	125.4	NO
38	41	13C8-PFOS	507.0 > 79.9	4.24e3	4.58e3	0.862	5.02	4.81	11.6	13.4	107.5	NO
39	42	13C2-PFDA	515.1 > 469.9	1.15e4	1.13e4	0.996	5.31	5.10	12.6	12.7	101.5	NO
40	43	13C2-8:2 FTS	529.1 > 508.7	1.54e3	1.90e4	0.103	5.28	5.07	1.01	9.83	78.7	NO
41	44	d3-N-MeFOSAA	573.3 > 419	6.68e3	1.56e4	0.340	5.45	5.25	5.36	15.8	126.0	NO
42	45	d5-N-EtFOSAA	589.3 > 419	7.48e3	1.56e4	0.377	5.60	5.40	5.99	15.9	127.2	NO
43	46	13C2-PFUdA	565 > 519.8	1.50e4	1.56e4	0.944	5.62	5.43	12.0	12.7	101.6	NO
44	47	13C2-PFDoA	615.0 > 569.7	9.48e3	1.56e4	0.726	5.91	5.71	7.59	10.5	83.7	NO
45	48	d3-N-MeFOSA	515.2 > 168.9	2.76e4	1.56e4	0.119	5.87	5.82	22.1	186	123.8	NO
46	49	13C2-PFTeDA	714.8 > 669.6	6.26e3	1.56e4	0.371	6.35	6.17	5.01	13.5	108.0	NO
47	50	d5-N-ETFOSA	531.1 > 168.9	4.18e4	1.56e4	0.174	6.25	6.18	33.5	193	128.8	NO
48	51	13C2-PFHxDA	815 > 769.7	3.33e3	1.56e4	0.559	6.64	6.48	2.67	4.78	95.5	NO
49	52	d7-N-MeFOSE	623.1 > 58.9	3.93e4	1.56e4	0.179	6.31	6.28	31.5	176	117.2	NO
50	53	d9-N-EtFOSE	639.2 > 58.8	4.38e4	1.56e4	0.160	6.45	6.44	35.1	220	146.6	NO
51	54	13C4-PFBA	217. > 171.8	1.82e4	1.82e4	1.000	1.64	1.44	12.5	12.5	100.0	NO
52	55	13C5-PFHxA	318 > 272.9	1.90e4	1.90e4	1.000	3.36	3.16	12.5	12.5	100.0	NO
53	56	13C3-PFHxS	401.9 > 79.9	4.67e3	4.67e3	1.000	4.14	3.93	12.5	12.5	100.0	NO
54	57	13C8-PFOA	421.3 > 376	1.83e4	1.83e4	1.000	4.50	4.30	12.5	12.5	100.0	NO
55	58	13C9-PFNA	472.2 > 426.9	1.92e4	1.92e4	1.000	4.94	4.73	12.5	12.5	100.0	NO
56	59	13C4-PFOS	503 > 79.9	4.58e3	4.58e3	1.000	5.02	4.81	12.5	12.5	100.0	NO
57	60	13C6-PFDA	519.1 > 473.7	1.13e4	1.13e4	1.000	5.31	5.10	12.5	12.5	100.0	NO
58	61	13C7-PFUdA	570.1 > 524.8	1.56e4	1.56e4	1.000	5.62	5.42	12.5	12.5	100.0	NO

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 ↓

Dataset: Untitled

Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

Calibration: 17 Jan 2018 11:36:15

Compound name: PFBA

	Name	ID	Acq Date	Acq Time
1	180115M2_1	ST180115M2-1 PFC CS-2 17L2606	16-Jan-18	00:14:07
2	180115M2_2	ST180115M2-2 PFC CS-1 17L2607	16-Jan-18	00:25:32
3	180115M2_3	ST180115M2-3 PFC CS0 17L2608	16-Jan-18	00:37:02
4	180115M2_4	ST180115M2-4 PFC CS1 17L2609	16-Jan-18	00:48:46
5	180115M2_5	ST180115M2-5 PFC CS2 17L2610	16-Jan-18	01:00:17
6	180115M2_6	ST180115M2-6 PFC CS3 17L2611	16-Jan-18	01:11:44
7	180115M2_7	ST180115M2-7 PFC CS4 17L1208	16-Jan-18	01:23:11
8	180115M2_8	ST180115M2-8 PFC CS5 17L2613	16-Jan-18	01:34:38
9	180115M2_9	IPA	16-Jan-18	01:46:05
10	180115M2_10	ICV180115M2-1 PFC ICV 17L1201	16-Jan-18	01:57:31
11	180115M2_11	IPA	16-Jan-18	02:08:58
12	180115M2_12	1701851-03 FT-PZ-455S-20171202 0.2638	16-Jan-18	02:20:26
13	180115M2_13	1701851-04 FT-PZ-455I-20171202 0.25637	16-Jan-18	02:31:52
14	180115M2_14	1701851-05 FT-PZ-453S-20171202 0.23285	16-Jan-18	02:43:19
15	180115M2_15	1701851-06 FT-PZ-453S-FRB-20171202 0.26159	16-Jan-18	02:54:46
16	180115M2_16	1701851-07 FT-PZ-456I-FRB-20171204 0.2536	16-Jan-18	03:06:13
17	180115M2_17	1701851-08 FT-PZ-456I-20171204 0.26041	16-Jan-18	03:17:39
18	180115M2_18	1701851-09 FT-PZ-456S-20171204 0.25898	16-Jan-18	03:29:06
19	180115M2_19	1701944-01 GW-PT-CHIN-254.5-260.5 0.11993	16-Jan-18	03:40:33
20	180115M2_20	1701944-02 GW-PT-CHIN-71-77 0.11916	16-Jan-18	03:52:00
21	180115M2_21	1701944-03 GW-PT-CHIN-178-184 0.11889	16-Jan-18	04:03:27
22	180115M2_22	1701944-04 GW-PT-CHIN-108-114 0.12008	16-Jan-18	04:14:54
23	180115M2_23	1701944-05 GW-PT-CHIN-57-63 0.11948	16-Jan-18	04:26:21
24	180115M2_24	1701944-06 FB-PT-Diwater 0.11902	16-Jan-18	04:37:48
25	180115M2_25	IPA	16-Jan-18	04:49:15
26	180115M2_26	ST180115M2-9 PFC CS3 17L2611	16-Jan-18	05:00:41
27	180115M2_27	IPA	16-Jan-18	05:12:08
28	180115M2_28	1701944-07 GW-PT-CHIN-254.5-260.5-Dup 0.1...	16-Jan-18	05:23:43
29	180115M2_29	1701944-08 GW-PT-CHIN-116-122 0.11949	16-Jan-18	05:35:10
30	180115M2_30	1701944-09 EB-PT-Waterlevel 0.10468	16-Jan-18	05:46:37
31	180115M2_31	1701944-10 EB-PT-grundfos 0.11733	16-Jan-18	05:58:04

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Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

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Compound name: PFBA

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32	180115M2_32	1701944-11 GW-PT-CHIN-170-176 0.11561	16-Jan-18	06:09:30
33	180115M2_33	1701944-12 GW-PT-CHIN-271.5-277.5 0.11931	16-Jan-18	06:20:58
34	180115M2_34	1701944-13 EB-PT-Packers 0.11813	16-Jan-18	06:32:24
35	180115M2_35	B7L0120-BS1 OPR 0.25	16-Jan-18	06:43:51
36	180115M2_36	B7L0120-BSD1 LCSD 0.25	16-Jan-18	06:55:18
37	180115M2_37	IPA	16-Jan-18	07:06:45
38	180115M2_38	B7L0120-BLK1 Method Blank 0.25	16-Jan-18	07:18:12
39	180115M2_39	1701886-01 YS22-EB01-120417 0.11748	16-Jan-18	07:29:39
40	180115M2_40	1701886-02 YS22-AQ-120517 0.11801	16-Jan-18	07:41:05
41	180115M2_41	1701886-03 YS22-GW18-1217 0.11927	16-Jan-18	07:52:32
42	180115M2_42	IPA	16-Jan-18	08:04:00
43	180115M2_43	ST180115M2-10 PFC CS3 17L2611	16-Jan-18	08:15:26
44	180115M2_44	IPA	16-Jan-18	08:26:53
45	180115M2_45	B7L0183-BS1 OPR 0.25	16-Jan-18	08:38:20
46	180115M2_46	B7L0183-BSD1 LCSD 0.25	16-Jan-18	08:49:46
47	180115M2_47	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	09:01:13
48	180115M2_48	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	09:12:40
49	180115M2_49	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	09:24:07
50	180115M2_50	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	09:42:12
51	180115M2_51	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	09:53:46
52	180115M2_52	1701953-05 SA-MW127S-FRB-20171213 0.255...	16-Jan-18	10:05:14
53	180115M2_53	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	10:16:50
54	180115M2_54	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	10:28:24
55	180115M2_55	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	10:39:51
56	180115M2_56	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	10:51:18
57	180115M2_57	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	11:02:44
58	180115M2_58	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	11:14:11
59	180115M2_59	IPA	16-Jan-18	11:25:38
60	180115M2_60	ST180115M2-11 PFC CS0 17L2608	16-Jan-18	11:37:05
61	180115M2_61	IPA	16-Jan-18	11:48:32
62	180115M2_62	1701905-03RE1@40X WINF1712061655JLB 0....	16-Jan-18	11:59:59
63	180115M2_63	1701852-01@20X IR03-MW034-C2-17D 0.26646	16-Jan-18	12:11:26
64	180115M2_64	1701852-02@20X IR03-MW018B-C1-17D 0.25...	16-Jan-18	12:22:53
65	180115M2_65	1701852-03@40X IR03-MW018A-C2-17D 0.26...	16-Jan-18	12:34:19

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Compound name: PFBA

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67	180115M2_67	IPA	16-Jan-18	12:57:13
68	180115M2_68	1701852-02 IR03-MW018B-C1-17D 0.25583	16-Jan-18	13:08:40
69	180115M2_69	IPA	16-Jan-18	13:20:07
70	180115M2_70	1701840-05 YS22-GW10-1217 0.11512	16-Jan-18	13:31:34
71	180115M2_71	IPA	16-Jan-18	13:43:01
72	180115M2_72	ST180115M2-12 PFC CS3 17L2611	16-Jan-18	13:54:28
73	180115M2_73	IPA	16-Jan-18	14:05:55
74	180115M2_74	B7L0208-BS1 OPR 0.25	16-Jan-18	14:17:32
75	180115M2_75	B7L0208-BLK1 Method Blank 0.25	16-Jan-18	14:29:05
76	180115M2_76	1701820-01RE1 WR1711281315MK 0.25712	16-Jan-18	15:00:31
77	180115M2_77	1701820-02RE1 WR1711281330MK 0.24648	16-Jan-18	15:12:02
78	180115M2_78	1701820-03RE1 WR1711281345MK 0.25579	16-Jan-18	15:23:29
79	180115M2_79	1701820-04RE1 WT1711281420MK 0.26647	16-Jan-18	15:34:56
80	180115M2_80	1701820-05RE1 WT1711281440MK 0.25752	16-Jan-18	15:46:23
81	180115M2_81	1701820-06RE1 FB1711281445MK 0.2552	16-Jan-18	15:57:50
82	180115M2_82	1701820-07RE1 WT1711281535MK 0.25433	16-Jan-18	16:09:17
83	180115M2_83	1701820-08RE1 WR1711281555MK 0.26231	16-Jan-18	16:20:43
84	180115M2_84	1701820-09RE1 WR1711290820MK 0.24977	16-Jan-18	16:32:11
85	180115M2_85	1701820-10RE1 WT1711290835MK 0.26178	16-Jan-18	16:43:37
86	180115M2_86	1701820-11RE1 WT1711290845MK 0.26795	16-Jan-18	16:55:04
87	180115M2_87	IPA	16-Jan-18	17:06:34
88	180115M2_88	ST180115M2-13 PFC CS3 17L2611	16-Jan-18	17:18:06
89	180115M2_89	IPA	16-Jan-18	17:29:33
90	180115M2_90	1701820-12RE1 WT1711290910MK 0.2463	16-Jan-18	17:41:00
91	180115M2_91	1701820-13RE1 WT1711290925MK 0.2633	16-Jan-18	17:52:26
92	180115M2_92	1701820-14RE1 WR1711290940MK 0.2514	16-Jan-18	18:03:53
93	180115M2_93	1701820-15RE1 WR1711290950MK 0.25988	16-Jan-18	18:15:20
94	180115M2_94	B7L0183-BS1 OPR 0.25	16-Jan-18	18:26:47
95	180115M2_95	B7L0183-BSD1 LCSD 0.25	16-Jan-18	18:38:14
96	180115M2_96	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	18:49:41
97	180115M2_97	1701953-01@5X CV-Dup09-20171213 0.2568	16-Jan-18	19:01:07
98	180115M2_98	1701953-03@5X SA-MW126S-20171213 0.242...	16-Jan-18	19:12:35
99	180115M2_99	1701953-08@5X SA-PZ123I-20171213 0.25702	16-Jan-18	19:24:01

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Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
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101	180115M2_101	1701953-10@5X SA-PZ118S-20171213 0.23505	16-Jan-18	19:46:55
102	180115M2_102	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	19:58:22
103	180115M2_103	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	20:09:49
104	180115M2_104	IPA	16-Jan-18	20:21:16
105	180115M2_105	ST180115M2-14 PFC CS0 17L2608	16-Jan-18	20:32:42
106	180115M2_106	IPA	16-Jan-18	20:44:08
107	180115M2_107	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	20:55:35
108	180115M2_108	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	21:07:02
109	180115M2_109	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	21:18:29
110	180115M2_110	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	21:29:55
111	180115M2_111	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	21:41:23
112	180115M2_112	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	21:52:49
113	180115M2_113	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	22:04:16
114	180115M2_114	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	22:15:43
115	180115M2_115	IPA	16-Jan-18	22:27:10
116	180115M2_116	1701905-04RE1 WR1712070930JNR 0.25	16-Jan-18	22:38:37
117	180115M2_117	ST180115M2-15 PFC CS3 17L2611	16-Jan-18	22:50:04
118	180115M2_118	IPA	16-Jan-18	23:01:30

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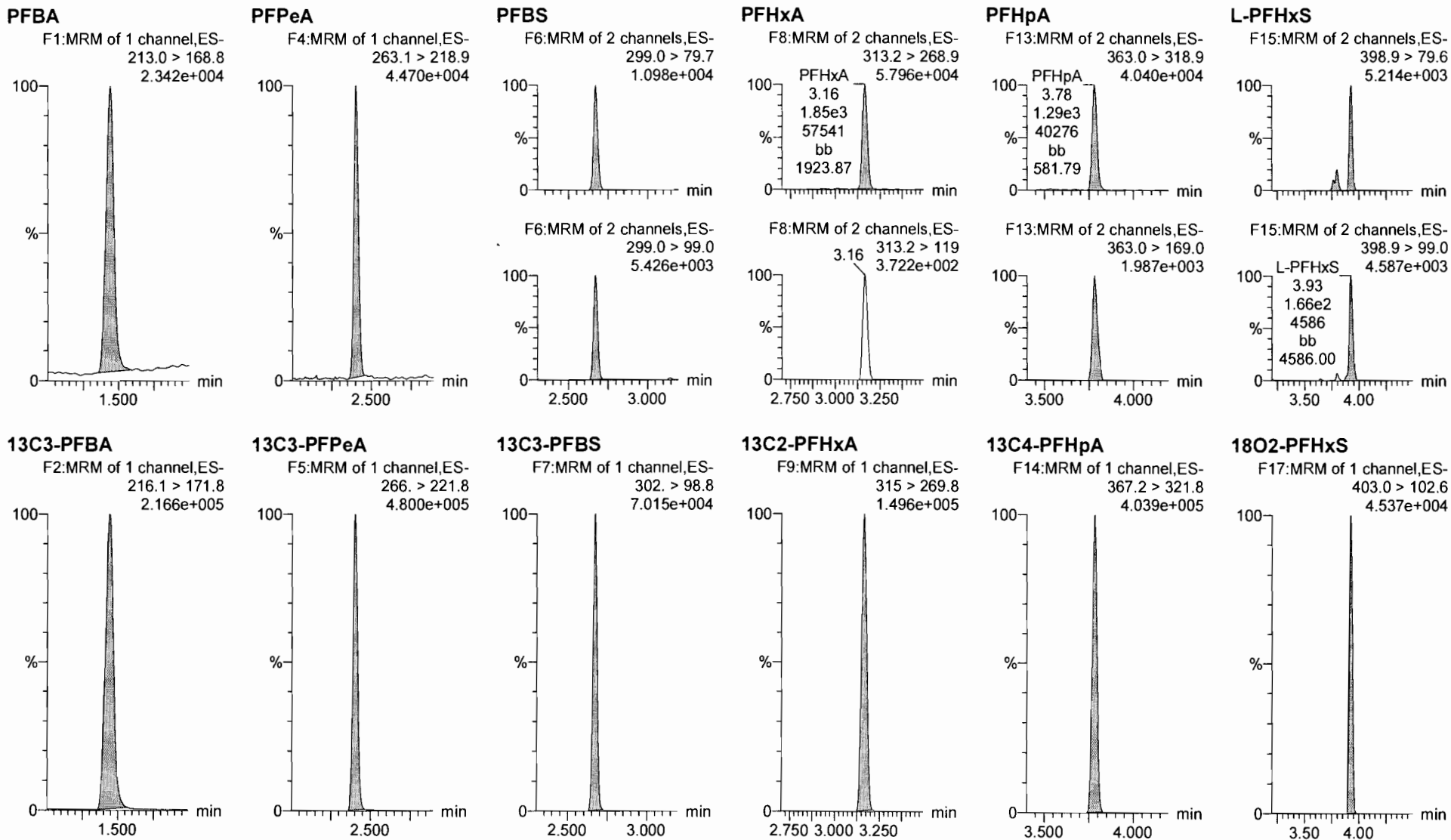
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Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

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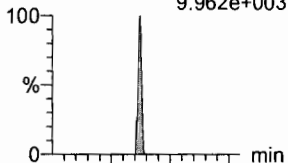
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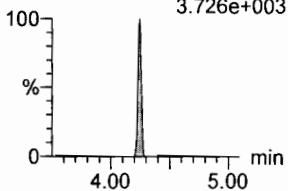
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6:2 FTS

F21:MRM of 2 channels,ES-
 427.1 > 407
 9.962e+003

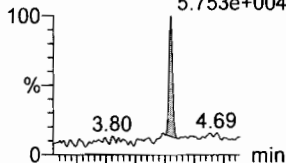


F21:MRM of 2 channels,ES-
 427.1 > 80
 3.726e+003

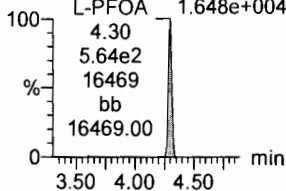


L-PFOA

F18:MRM of 2 channels,ES-
 413 > 368.7
 5.753e+004

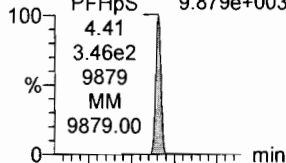


F18:MRM of 2 channels,ES-
 413 > 169
 1.648e+004

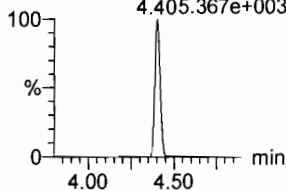


PFHpS

F23:MRM of 2 channels,ES-
 449 > 80.0
 9.879e+003

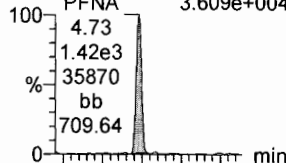


F23:MRM of 2 channels,ES-
 449 > 98.7
 4.405.367e+003

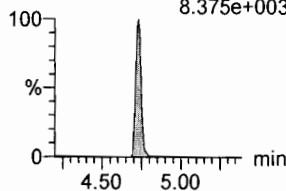


PFNA

F24:MRM of 2 channels,ES-
 463.0 > 418.8
 3.609e+004

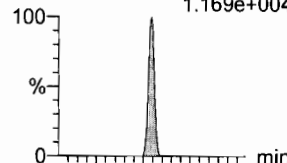


F24:MRM of 2 channels,ES-
 463.0 > 219.0
 8.375e+003

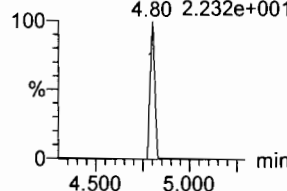


PFOSA

F27:MRM of 2 channels,ES-
 498.1 > 77.8
 1.169e+004

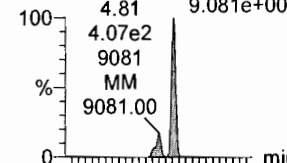


F27:MRM of 2 channels,ES-
 498.1 > 478
 2.232e+001

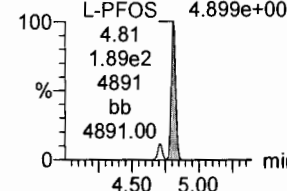


L-PFOS

F29:MRM of 2 channels,ES-
 L-PFOS 499 > 79.9
 9.081e+003

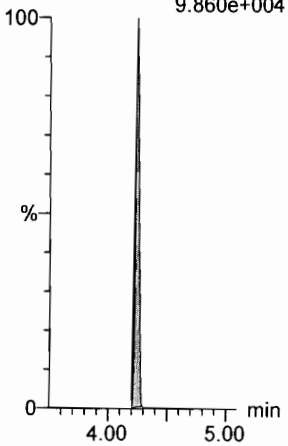


F29:MRM of 2 channels,ES-
 499 > 99
 4.899e+003



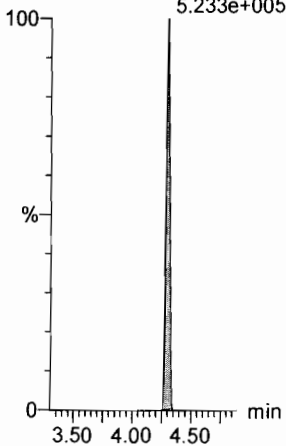
13C2-6:2 FTS

F22:MRM of 1 channel,ES-
 429.1 > 408.9
 9.860e+004



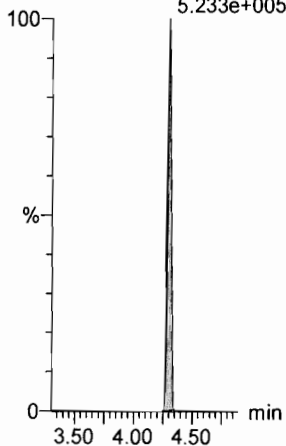
13C2-PFOA

F19:MRM of 1 channel,ES-
 414.9 > 369.7
 5.233e+005



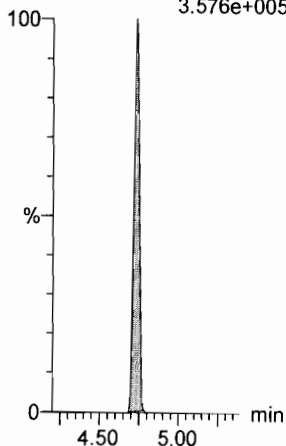
13C2-PFOA

F19:MRM of 1 channel,ES-
 414.9 > 369.7
 5.233e+005



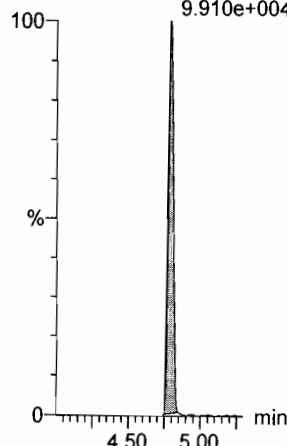
13C5-PFNA

F25:MRM of 1 channel,ES-
 468.2 > 422.9
 3.576e+005



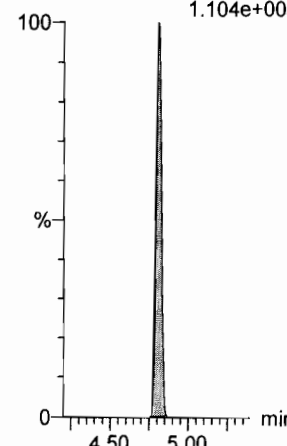
13C8-PFOSA

F31:MRM of 1 channel,ES-
 506.1 > 77.7
 9.910e+004



13C8-PFOS

F32:MRM of 1 channel,ES-
 507.0 > 79.9
 1.104e+005



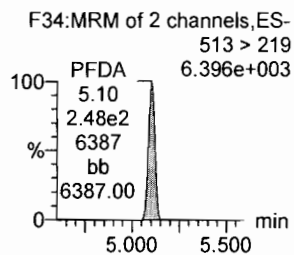
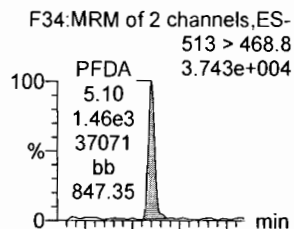
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Last Altered: Wednesday, January 17, 2018 09:20:16 Pacific Standard Time

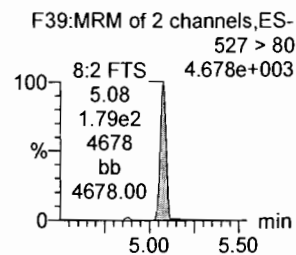
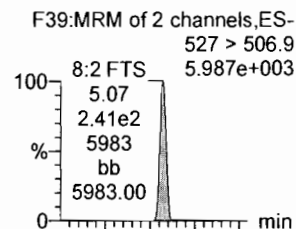
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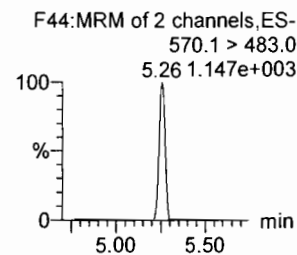
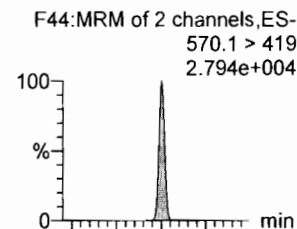
PFDA



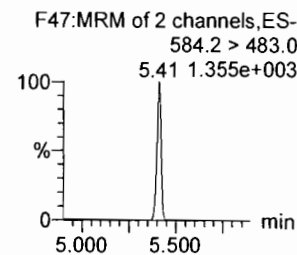
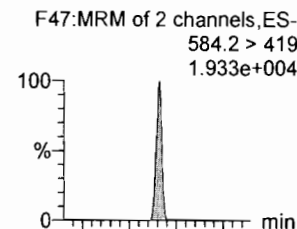
8:2 FTS



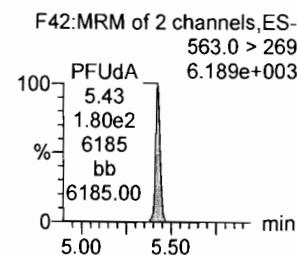
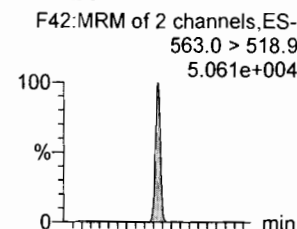
N-MeFOSAA



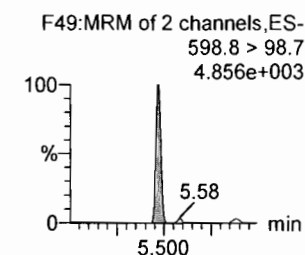
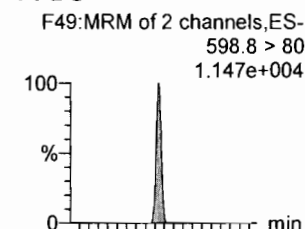
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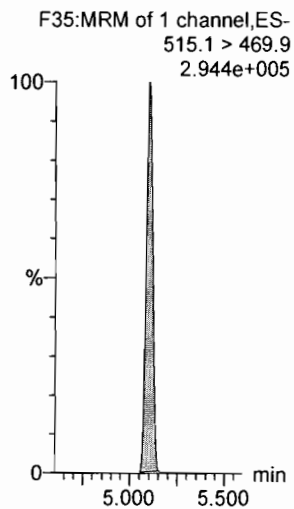
PFUdA



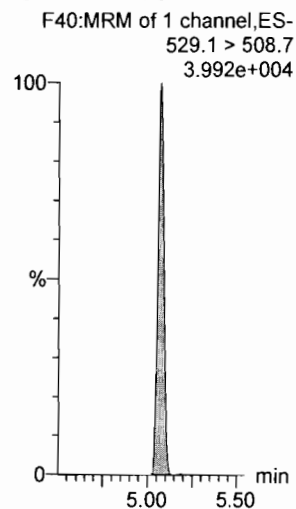
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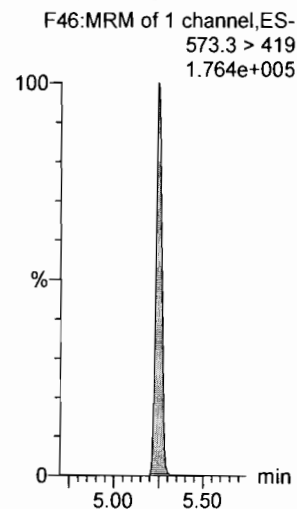
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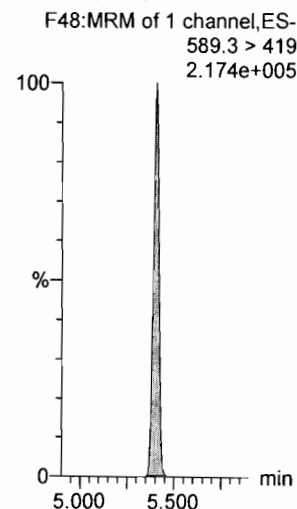
13C2-8:2 FTS



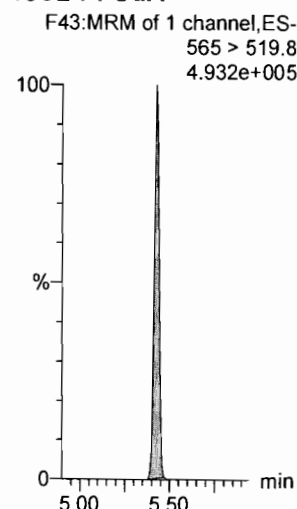
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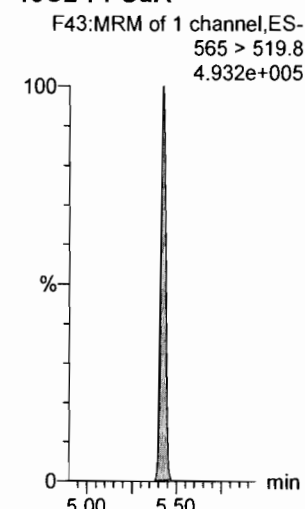
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-105.qld

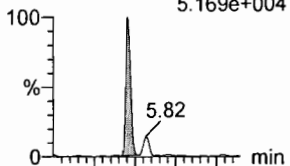
Last Altered: Wednesday, January 17, 2018 09:20:16 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:20:31 Pacific Standard Time

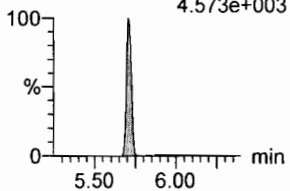
Name: 180115M2_105, Date: 16-Jan-2018, Time: 20:32:42, ID: ST180115M2-14 PFC CS0 17L2608, Description: PFC CS0 17L2608

PFD_oA

F50:MRM of 2 channels,ES-
612.9 > 569.0
5.169e+004

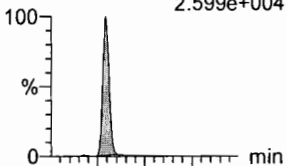


F50:MRM of 2 channels,ES-
612.9 > 318.8
4.573e+003

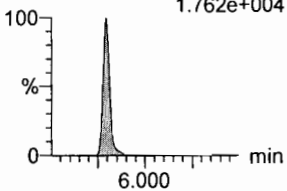


N-MeFOSA

F33:MRM of 2 channels,ES-
512.1 > 168.9
2.599e+004

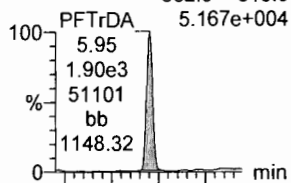


F33:MRM of 2 channels,ES-
512.1 > 219
1.762e+004

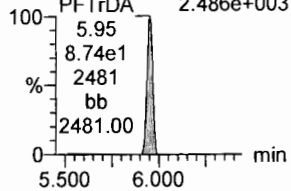


PFT_rDA

F56:MRM of 2 channels,ES-
662.9 > 618.9
5.167e+004

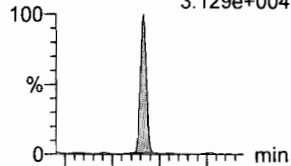


F56:MRM of 2 channels,ES-
662.9 > 319
2.486e+003

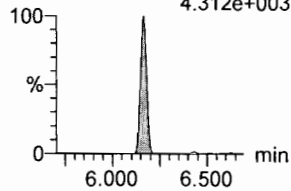


PFT_eDA

F57:MRM of 2 channels,ES-
712.9 > 668.8
3.129e+004

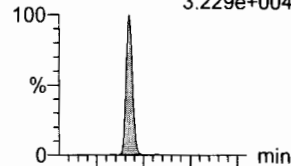


F57:MRM of 2 channels,ES-
712.9 > 369
4.312e+003

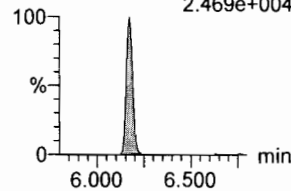


N-EtFOSA

F38:MRM of 2 channels,ES-
526.1 > 168.9
3.229e+004

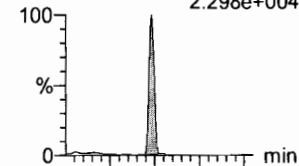


F38:MRM of 2 channels,ES-
526.1 > 219
2.469e+004

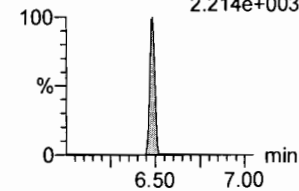


PFH_xDA

F59:MRM of 2 channels,ES-
813.1 > 768.6
2.298e+004

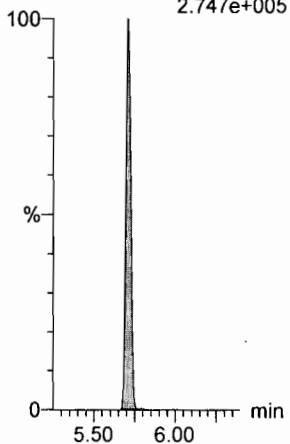


F59:MRM of 2 channels,ES-
813.1 > 219
2.214e+003



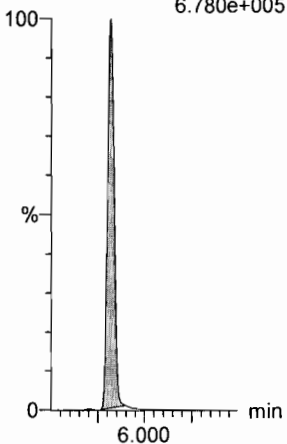
13C2-PFD_oA

F51:MRM of 1 channel,ES-
615.0 > 569.7
2.747e+005



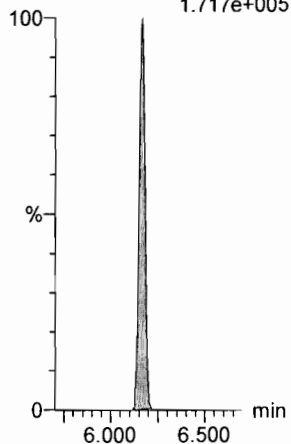
d3-N-MeFOSA

F36:MRM of 1 channel,ES-
515.2 > 168.9
6.780e+005



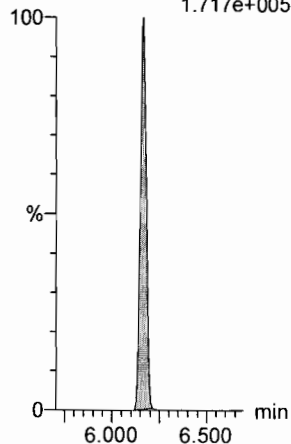
13C2-PFT_rDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.717e+005



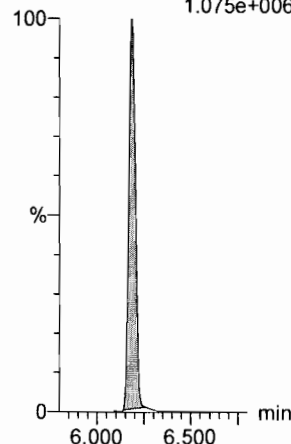
13C2-PFT_eDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.717e+005



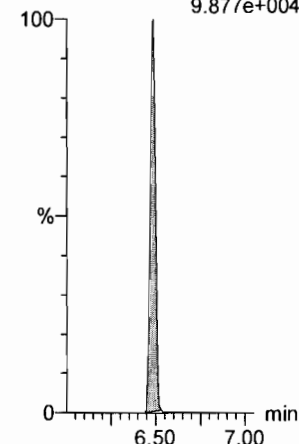
d5-N-ETFOSA

F41:MRM of 1 channel,ES-
531.1 > 168.9
1.075e+006



13C2-PFH_xDA

F60:MRM of 1 channel,ES-
815 > 769.7
9.877e+004

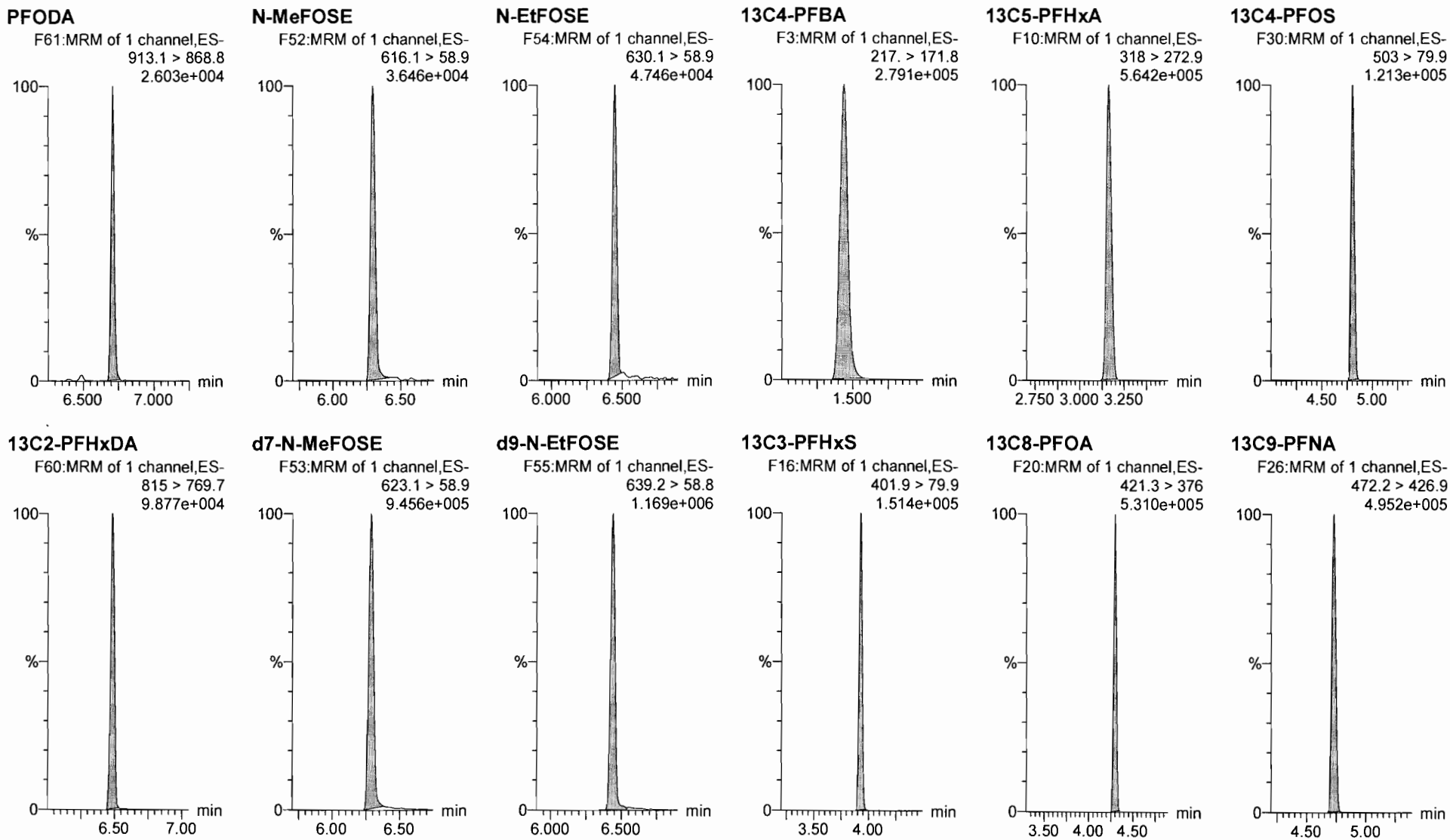


Dataset: U:\Q4.PRO\results\180115M2\180115M2-105.qld

Last Altered: Wednesday, January 17, 2018 09:20:16 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:20:31 Pacific Standard Time

Name: 180115M2_105, Date: 16-Jan-2018, Time: 20:32:42, ID: ST180115M2-14 PFC CS0 17L2608, Description: PFC CS0 17L2608



Dataset: U:\Q4.PRO\results\180115M2\180115M2-105.qld

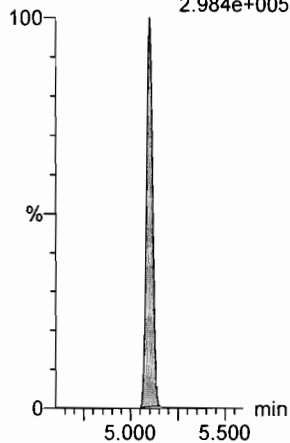
Last Altered: Wednesday, January 17, 2018 09:20:16 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:20:31 Pacific Standard Time

Name: 180115M2_105, Date: 16-Jan-2018, Time: 20:32:42, ID: ST180115M2-14 PFC CS0 17L2608, Description: PFC CS0 17L2608

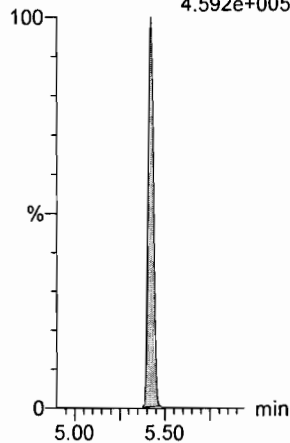
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.984e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.592e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-117.qld

Last Altered: Wednesday, January 17, 2018 09:25:05 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:25:33 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

Name: 180115M2_117, Date: 16-Jan-2018, Time: 22:50:04, ID: ST180115M2-15 PFC CS3 17L2611, Description: PFC CS3 17L2611

CP 1/16/18
✓ JA 01/17/2018

#	Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
1	1 PFBA	213.0 > 168.8	1.55e4	1.41e4		1.64	1.44	13.8	10.3	103.4	NO
2	2 PFPeA	263.1 > 218.9	1.58e4	1.56e4		2.46	2.40	12.7	11.0	109.9	NO
3	3 PFBS	299.0 > 79.7	3.53e3	1.99e3		2.87	2.67	22.2	11.5	115.5	NO
4	4 PFHxA	313.2 > 268.9	1.82e4	4.73e3		3.36	3.16	19.2	10.9	109.4	NO
5	5 PFHpA	363.0 > 318.9	1.48e4	1.17e4		4.00	3.78	15.8	10.6	105.8	NO
6	6 L-PFHxS	398.9 > 79.6	2.43e3	1.50e3		3.94	3.93	20.2	10.1	101.2	NO
7	8 6:2 FTS	427.1 > 407	3.05e3	1.50e3		4.46	4.24	25.4	8.84	88.4	NO
8	9 L-PFOA	413 > 368.7	1.66e4	1.72e4		4.34	4.30	12.0	10.4	104.2	NO
9	11 PFHpS	449 > 80.0	4.06e3	1.72e4		4.60	4.40	2.95	10.5	104.8	NO
10	12 PFNA	463.0 > 418.8	1.58e4	1.52e4		4.94	4.73	13.0	9.58	95.8	NO
11	13 PFOSA	498.1 > 77.8	4.15e3	3.97e3		5.00	4.79	13.1	10.9	108.7	NO
12	14 L-PFOS	499 > 79.9	4.10e3	4.71e3		5.02	4.80	10.9	9.76	97.6	NO
13	16 PFDA	513 > 468.8	1.85e4	1.43e4		5.31	5.10	16.2	11.2	112.2	NO
14	17 8:2 FTS	527 > 506.9	3.29e3	1.43e4		5.28	5.07	2.88	11.8	117.5	NO
15	18 N-MeFOSAA	570.1 > 419	1.06e4	7.05e3		5.45	5.25	18.7	11.4	113.8	NO
16	19 N-EtFOSAA	584.2 > 419	7.57e3	7.54e3		5.60	5.41	12.5	9.71	97.1	NO
17	20 PFUdA	563.0 > 518.9	1.84e4	1.72e4		5.62	5.42	13.4	10.5	105.3	NO
18	21 PFDS	598.8 > 80	4.52e3	1.72e4		5.67	5.47	3.29	9.73	97.3	NO
19	22 PFDoA	612.9 > 569.0	1.92e4	9.17e3		5.91	5.70	26.1	17.8	178.5	YES
20	23 N-MeFOSA	512.1 > 168.9	1.17e4	2.85e4		5.87	5.80	61.6	55.1	110.3	NO
21	24 PFTrDA	662.9 > 618.9	1.70e4	9.17e3		6.15	5.95	23.1	10.8	108.1	NO
22	25 PFTeDA	712.9 > 668.8	9.98e3	5.60e3		6.35	6.16	22.3	6.67	66.7	YES
23	26 N-EtFOSA	526.1 > 168.9	1.53e4	4.25e4		6.25	6.17	53.9	53.8	107.5	NO
24	27 PFHxDA	813.1 > 768.6	7.28e3	3.37e3		6.64	6.48	10.8	13.3	133.1	YES
25	28 PFOA	913.1 > 868.8	7.60e3	3.37e3		6.85	6.71	11.3	12.3	123.2	NO
26	29 N-MeFOSE	616.1 > 58.9	1.97e4	4.88e4		6.31	6.30	60.5	52.3	104.6	NO
27	30 N-EtFOSE	630.1 > 58.9	1.84e4	4.26e4		6.45	6.45	64.6	53.0	106.1	NO
28	31 13C3-PFBA	216.1 > 171.8	1.41e4	1.83e4	0.779	1.64	1.44	9.58	12.3	98.4	NO
29	32 13C3-PFPeA	266. > 221.8	1.56e4	2.07e4	0.797	2.60	2.40	9.41	11.8	94.5	NO
30	33 13C3-PFBS	302. > 98.8	1.99e3	2.07e4	0.095	2.87	2.66	1.20	12.6	101.1	NO
31	34 13C2-PFHxA	315 > 269.8	4.73e3	2.07e4	0.636	3.36	3.16	2.85	4.49	89.7	NO

70-130
 50-150

Dataset: U:\Q4.PRO\results\180115M2\180115M2-117.qld

Last Altered: Wednesday, January 17, 2018 09:25:05 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:25:33 Pacific Standard Time

Name: 180115M2_117, Date: 16-Jan-2018, Time: 22:50:04, ID: ST180115M2-15 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
32	35 13C4-PFHpA	367.2 > 321.8	1.17e4	2.07e4	0.621	4.00	3.78	7.09	11.4	91.4	NO
33	36 18O2-PFHxS	403.0 > 102.6	1.50e3	4.70e3	0.336	4.14	3.93	3.99	11.9	95.0	NO
34	37 13C2-6:2 FTS	429.1 > 408.9	3.06e3	1.95e4	0.192	4.46	4.24	1.96	10.2	81.5	NO
35	38 13C2-PFOA	414.9 > 369.7	1.72e4	1.95e4	1.001	4.50	4.30	11.0	11.0	88.1	NO
36	39 13C5-PFNA	468.2 > 422.9	1.52e4	1.63e4	0.811	4.94	4.72	11.6	14.3	114.8	NO
37	40 13C8-PFOSA	506.1 > 77.7	3.97e3	1.65e4	0.196	5.00	4.79	3.01	15.3	122.4	NO
38	41 13C8-PFOS	507.0 > 79.9	4.71e3	4.34e3	0.862	5.02	4.81	13.6	15.8	126.0	NO
39	42 13C2-PFDA	515.1 > 469.9	1.43e4	1.25e4	0.996	5.31	5.10	14.3	14.4	115.0	NO
40	43 13C2-8:2 FTS	529.1 > 508.7	1.56e3	2.07e4	0.103	5.28	5.07	0.942	9.15	73.2	NO
41	44 d3-N-MeFOSAA	573.3 > 419	7.05e3	1.65e4	0.340	5.45	5.25	5.35	15.7	125.8	NO
42	45 d5-N-EtFOSAA	589.3 > 419	7.54e3	1.65e4	0.377	5.60	5.40	5.71	15.2	121.3	NO
43	46 13C2-PFUdA	565 > 519.8	1.72e4	1.65e4	0.944	5.62	5.42	13.0	13.8	110.3	NO
44	47 13C2-PFDoA	615.0 > 569.7	9.17e3	1.65e4	0.726	5.91	5.70	6.95	9.57	76.5	NO
45	48 d3-N-MeFOSA	515.2 > 168.9	2.85e4	1.65e4	0.119	5.87	5.82	21.6	182	121.2	NO
46	49 13C2-PFTeDA	714.8 > 669.6	5.60e3	1.65e4	0.371	6.35	6.16	4.25	11.4	91.5	NO
47	50 d5-N-ETFOSA	531.1 > 168.9	4.25e4	1.65e4	0.174	6.25	6.19	32.2	186	123.7	NO
48	51 13C2-PFHxDA	815 > 769.7	3.37e3	1.65e4	0.559	6.64	6.48	2.55	4.56	91.3	NO
49	52 d7-N-MeFOSE	623.1 > 58.9	4.88e4	1.65e4	0.179	6.31	6.29	36.9	206	137.3	NO
50	53 d9-N-EtFOSE	639.2 > 58.8	4.26e4	1.65e4	0.160	6.45	6.44	32.3	202	134.8	NO
51	54 13C4-PFBA	217. > 171.8	1.83e4	1.83e4	1.000	1.64	1.43	12.5	12.5	100.0	NO
52	55 13C5-PFHxA	318 > 272.9	2.07e4	2.07e4	1.000	3.36	3.16	12.5	12.5	100.0	NO
53	56 13C3-PFHxS	401.9 > 79.9	4.70e3	4.70e3	1.000	4.14	3.92	12.5	12.5	100.0	NO
54	57 13C8-PFOA	421.3 > 376	1.95e4	1.95e4	1.000	4.50	4.29	12.5	12.5	100.0	NO
55	58 13C9-PFNA	472.2 > 426.9	1.63e4	1.63e4	1.000	4.94	4.72	12.5	12.5	100.0	NO
56	59 13C4-PFOS	503 > 79.9	4.34e3	4.34e3	1.000	5.02	4.81	12.5	12.5	100.0	NO
57	60 13C6-PFDA	519.1 > 473.7	1.25e4	1.25e4	1.000	5.31	5.10	12.5	12.5	100.0	NO
58	61 13C7-PFUdA	570.1 > 524.8	1.65e4	1.65e4	1.000	5.62	5.42	12.5	12.5	100.0	NO

Dataset: Untitled

Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

Calibration: 17 Jan 2018 11:36:15

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180115M2_1	ST180115M2-1 PFC CS-2 17L2606	16-Jan-18	00:14:07
2	180115M2_2	ST180115M2-2 PFC CS-1 17L2607	16-Jan-18	00:25:32
3	180115M2_3	ST180115M2-3 PFC CS0 17L2608	16-Jan-18	00:37:02
4	180115M2_4	ST180115M2-4 PFC CS1 17L2609	16-Jan-18	00:48:46
5	180115M2_5	ST180115M2-5 PFC CS2 17L2610	16-Jan-18	01:00:17
6	180115M2_6	ST180115M2-6 PFC CS3 17L2611	16-Jan-18	01:11:44
7	180115M2_7	ST180115M2-7 PFC CS4 17L1208	16-Jan-18	01:23:11
8	180115M2_8	ST180115M2-8 PFC CS5 17L2613	16-Jan-18	01:34:38
9	180115M2_9	IPA	16-Jan-18	01:46:05
10	180115M2_10	ICV180115M2-1 PFC ICV 17L1201	16-Jan-18	01:57:31
11	180115M2_11	IPA	16-Jan-18	02:08:58
12	180115M2_12	1701851-03 FT-PZ-455S-20171202 0.2638	16-Jan-18	02:20:26
13	180115M2_13	1701851-04 FT-PZ-455I-20171202 0.25637	16-Jan-18	02:31:52
14	180115M2_14	1701851-05 FT-PZ-453S-20171202 0.23285	16-Jan-18	02:43:19
15	180115M2_15	1701851-06 FT-PZ-453S-FRB-20171202 0.26159	16-Jan-18	02:54:46
16	180115M2_16	1701851-07 FT-PZ-456I-FRB-20171204 0.2536	16-Jan-18	03:06:13
17	180115M2_17	1701851-08 FT-PZ-456I-20171204 0.26041	16-Jan-18	03:17:39
18	180115M2_18	1701851-09 FT-PZ-456S-20171204 0.25898	16-Jan-18	03:29:06
19	180115M2_19	1701944-01 GW-PT-CHIN-254.5-260.5 0.11993	16-Jan-18	03:40:33
20	180115M2_20	1701944-02 GW-PT-CHIN-71-77 0.11916	16-Jan-18	03:52:00
21	180115M2_21	1701944-03 GW-PT-CHIN-178-184 0.11889	16-Jan-18	04:03:27
22	180115M2_22	1701944-04 GW-PT-CHIN-108-114 0.12008	16-Jan-18	04:14:54
23	180115M2_23	1701944-05 GW-PT-CHIN-57-63 0.11948	16-Jan-18	04:26:21
24	180115M2_24	1701944-06 FB-PT-Diwater 0.11902	16-Jan-18	04:37:48
25	180115M2_25	IPA	16-Jan-18	04:49:15
26	180115M2_26	ST180115M2-9 PFC CS3 17L2611	16-Jan-18	05:00:41
27	180115M2_27	IPA	16-Jan-18	05:12:08
28	180115M2_28	1701944-07 GW-PT-CHIN-254.5-260.5-Dup 0.1...	16-Jan-18	05:23:43
29	180115M2_29	1701944-08 GW-PT-CHIN-116-122 0.11949	16-Jan-18	05:35:10
30	180115M2_30	1701944-09 EB-PT-Waterlevel 0.10468	16-Jan-18	05:46:37
31	180115M2_31	1701944-10 EB-PT-grundfos 0.11733	16-Jan-18	05:58:04

Dataset: Untitled

Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	180115M2_32	1701944-11 GW-PT-CHIN-170-176 0.11561	16-Jan-18	06:09:30
33	180115M2_33	1701944-12 GW-PT-CHIN-271.5-277.5 0.11931	16-Jan-18	06:20:58
34	180115M2_34	1701944-13 EB-PT-Packers 0.11813	16-Jan-18	06:32:24
35	180115M2_35	B7L0120-BS1 OPR 0.25	16-Jan-18	06:43:51
36	180115M2_36	B7L0120-BSD1 LCSD 0.25	16-Jan-18	06:55:18
37	180115M2_37	IPA	16-Jan-18	07:06:45
38	180115M2_38	B7L0120-BLK1 Method Blank 0.25	16-Jan-18	07:18:12
39	180115M2_39	1701886-01 YS22-EB01-120417 0.11748	16-Jan-18	07:29:39
40	180115M2_40	1701886-02 YS22-AQ-120517 0.11801	16-Jan-18	07:41:05
41	180115M2_41	1701886-03 YS22-GW18-1217 0.11927	16-Jan-18	07:52:32
42	180115M2_42	IPA	16-Jan-18	08:04:00
43	180115M2_43	ST180115M2-10 PFC CS3 17L2611	16-Jan-18	08:15:26
44	180115M2_44	IPA	16-Jan-18	08:26:53
45	180115M2_45	B7L0183-BS1 OPR 0.25	16-Jan-18	08:38:20
46	180115M2_46	B7L0183-BSD1 LCSD 0.25	16-Jan-18	08:49:46
47	180115M2_47	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	09:01:13
48	180115M2_48	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	09:12:40
49	180115M2_49	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	09:24:07
50	180115M2_50	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	09:42:12
51	180115M2_51	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	09:53:46
52	180115M2_52	1701953-05 SA-MW127S-FRB-20171213 0.255...	16-Jan-18	10:05:14
53	180115M2_53	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	10:16:50
54	180115M2_54	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	10:28:24
55	180115M2_55	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	10:39:51
56	180115M2_56	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	10:51:18
57	180115M2_57	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	11:02:44
58	180115M2_58	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	11:14:11
59	180115M2_59	IPA	16-Jan-18	11:25:38
60	180115M2_60	ST180115M2-11 PFC CS0 17L2608	16-Jan-18	11:37:05
61	180115M2_61	IPA	16-Jan-18	11:48:32
62	180115M2_62	1701905-03RE1@40X WINF1712061655JLB 0....	16-Jan-18	11:59:59
63	180115M2_63	1701852-01@20X IR03-MW034-C2-17D 0.26646	16-Jan-18	12:11:26
64	180115M2_64	1701852-02@20X IR03-MW018B-C1-17D 0.25...	16-Jan-18	12:22:53
65	180115M2_65	1701852-03@40X IR03-MW018A-C2-17D 0.26...	16-Jan-18	12:34:19

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Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time
 Printed: Wednesday, January 17, 2018 11:47:39 Pacific Standard Time

Compound name: PFBA

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66	180115M2_66	1701852-03@20X IR03-MW018A-C2-17D 0.26...	16-Jan-18	12:45:47
67	180115M2_67	IPA	16-Jan-18	12:57:13
68	180115M2_68	1701852-02 IR03-MW018B-C1-17D 0.25583	16-Jan-18	13:08:40
69	180115M2_69	IPA	16-Jan-18	13:20:07
70	180115M2_70	1701840-05 YS22-GW10-1217 0.11512	16-Jan-18	13:31:34
71	180115M2_71	IPA	16-Jan-18	13:43:01
72	180115M2_72	ST180115M2-12 PFC CS3 17L2611	16-Jan-18	13:54:28
73	180115M2_73	IPA	16-Jan-18	14:05:55
74	180115M2_74	B7L0208-BS1 OPR 0.25	16-Jan-18	14:17:32
75	180115M2_75	B7L0208-BLK1 Method Blank 0.25	16-Jan-18	14:29:05
76	180115M2_76	1701820-01RE1 WR1711281315MK 0.25712	16-Jan-18	15:00:31
77	180115M2_77	1701820-02RE1 WR1711281330MK 0.24648	16-Jan-18	15:12:02
78	180115M2_78	1701820-03RE1 WR1711281345MK 0.25579	16-Jan-18	15:23:29
79	180115M2_79	1701820-04RE1 WT1711281420MK 0.26647	16-Jan-18	15:34:56
80	180115M2_80	1701820-05RE1 WT1711281440MK 0.25752	16-Jan-18	15:46:23
81	180115M2_81	1701820-06RE1 FB1711281445MK 0.2552	16-Jan-18	15:57:50
82	180115M2_82	1701820-07RE1 WT1711281535MK 0.25433	16-Jan-18	16:09:17
83	180115M2_83	1701820-08RE1 WR1711281555MK 0.26231	16-Jan-18	16:20:43
84	180115M2_84	1701820-09RE1 WR1711290820MK 0.24977	16-Jan-18	16:32:11
85	180115M2_85	1701820-10RE1 WT1711290835MK 0.26178	16-Jan-18	16:43:37
86	180115M2_86	1701820-11RE1 WT1711290845MK 0.26795	16-Jan-18	16:55:04
87	180115M2_87	IPA	16-Jan-18	17:06:34
88	180115M2_88	ST180115M2-13 PFC CS3 17L2611	16-Jan-18	17:18:06
89	180115M2_89	IPA	16-Jan-18	17:29:33
90	180115M2_90	1701820-12RE1 WT1711290910MK 0.2463	16-Jan-18	17:41:00
91	180115M2_91	1701820-13RE1 WT1711290925MK 0.2633	16-Jan-18	17:52:26
92	180115M2_92	1701820-14RE1 WR1711290940MK 0.2514	16-Jan-18	18:03:53
93	180115M2_93	1701820-15RE1 WR1711290950MK 0.25988	16-Jan-18	18:15:20
94	180115M2_94	B7L0183-BS1 OPR 0.25	16-Jan-18	18:26:47
95	180115M2_95	B7L0183-BSD1 LCSD 0.25	16-Jan-18	18:38:14
96	180115M2_96	B7L0183-BLK1 Method Blank 0.25	16-Jan-18	18:49:41
97	180115M2_97	1701953-01@5X CV-Dup09-20171213 0.2568	16-Jan-18	19:01:07
98	180115M2_98	1701953-03@5X SA-MW126S-20171213 0.242...	16-Jan-18	19:12:35
99	180115M2_99	1701953-08@5X SA-PZ123I-20171213 0.25702	16-Jan-18	19:24:01

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Last Altered: Wednesday, January 17, 2018 11:36:15 Pacific Standard Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
100	180115M2_100	1701953-09@5X SA-PZ123I1-20171213 0.25747	16-Jan-18	19:35:28
101	180115M2_101	1701953-10@5X SA-PZ118S-20171213 0.23505	16-Jan-18	19:46:55
102	180115M2_102	1701953-01 CV-Dup09-20171213 0.2568	16-Jan-18	19:58:22
103	180115M2_103	1701953-02 SA-MW127S-20171213 0.23624	16-Jan-18	20:09:49
104	180115M2_104	IPA	16-Jan-18	20:21:16
105	180115M2_105	ST180115M2-14 PFC CS0 17L2608	16-Jan-18	20:32:42
106	180115M2_106	IPA	16-Jan-18	20:44:08
107	180115M2_107	1701953-03 SA-MW126S-20171213 0.24287	16-Jan-18	20:55:35
108	180115M2_108	1701953-04 SA-MW126I-20171213 0.24106	16-Jan-18	21:07:02
109	180115M2_109	1701953-06 SA-Dup10-20171213 0.25769	16-Jan-18	21:18:29
110	180115M2_110	1701953-07 SA-PZ123S-20171213 0.24245	16-Jan-18	21:29:55
111	180115M2_111	1701953-08 SA-PZ123I-20171213 0.25702	16-Jan-18	21:41:23
112	180115M2_112	1701953-09 SA-PZ123I1-20171213 0.25747	16-Jan-18	21:52:49
113	180115M2_113	1701953-10 SA-PZ118S-20171213 0.23505	16-Jan-18	22:04:16
114	180115M2_114	1701953-11 SA-PZ118I-20171213 0.24112	16-Jan-18	22:15:43
115	180115M2_115	IPA	16-Jan-18	22:27:10
116	180115M2_116	1701905-04RE1 WR1712070930JNR 0.25	16-Jan-18	22:38:37
117	180115M2_117	ST180115M2-15 PFC CS3 17L2611	16-Jan-18	22:50:04
118	180115M2_118	IPA	16-Jan-18	23:01:30

Dataset: U:\Q4.PRO\results\180115M2\180115M2-117.qld

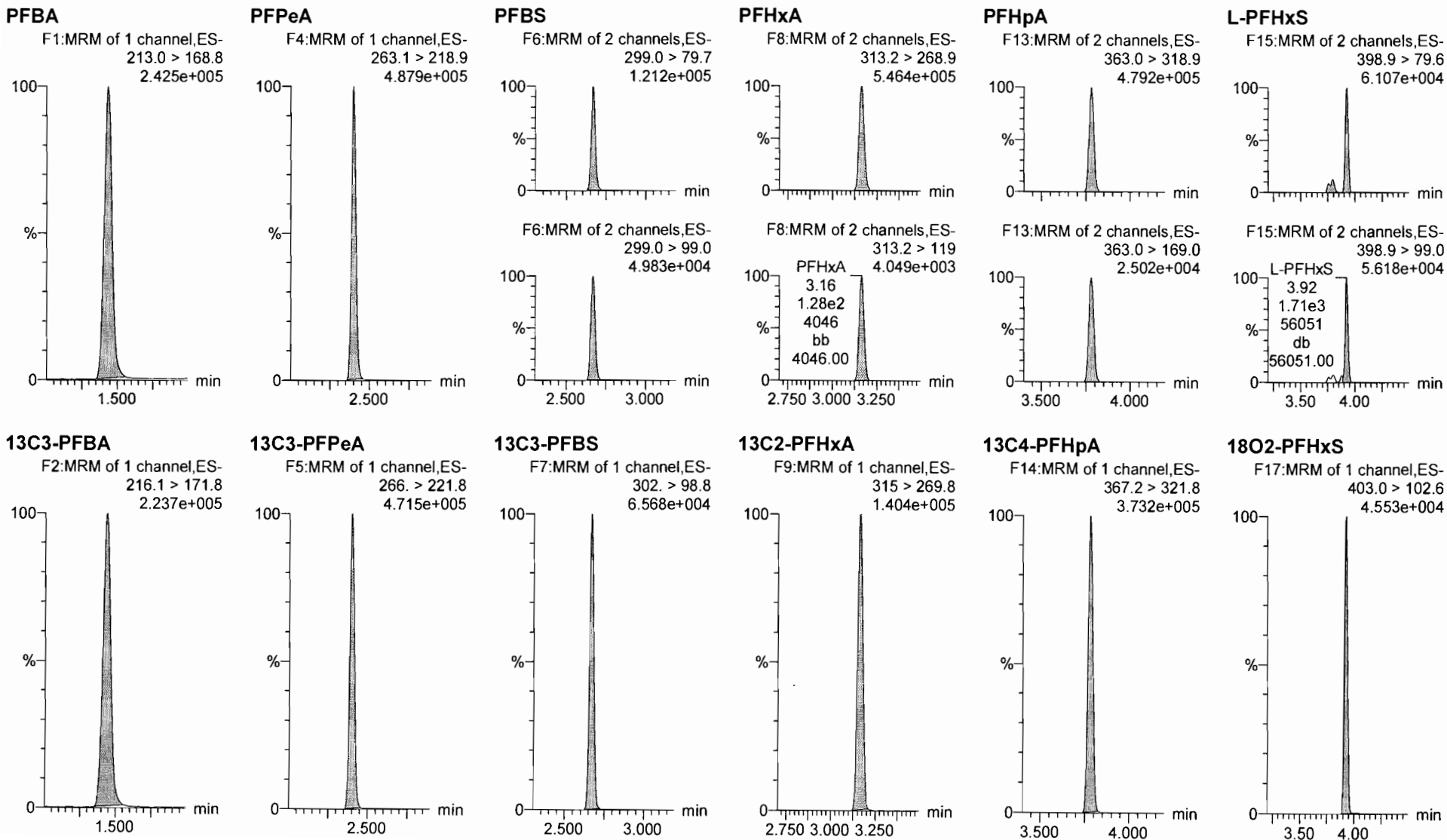
Last Altered: Wednesday, January 17, 2018 09:25:05 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:25:33 Pacific Standard Time

Method: U:\Q4.pro\MethDB\PFAS_FULL_80C_011518.mdb 16 Jan 2018 21:06:29

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

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-117.qld

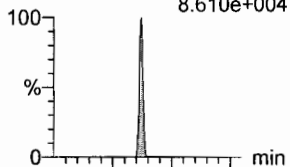
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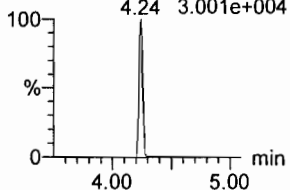
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6:2 FTS

F21:MRM of 2 channels,ES-
427.1 > 407
8.610e+004

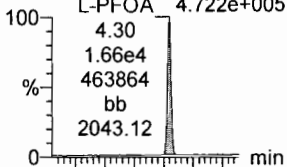


F21:MRM of 2 channels,ES-
427.1 > 80
3.001e+004

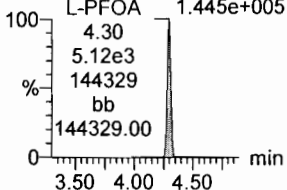


L-PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
4.722e+005

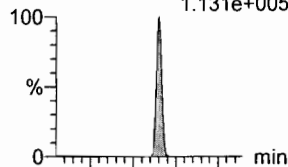


F18:MRM of 2 channels,ES-
413 > 169
1.445e+005

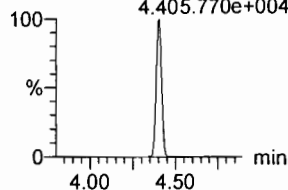


PFHpS

F23:MRM of 2 channels,ES-
449 > 80.0
1.131e+005

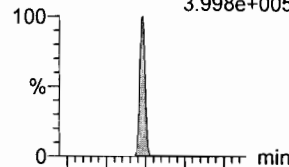


F23:MRM of 2 channels,ES-
449 > 98.7
4.405.770e+004

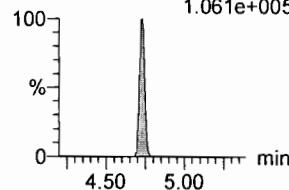


PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
3.998e+005

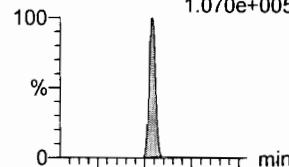


F24:MRM of 2 channels,ES-
463.0 > 219.0
1.061e+005

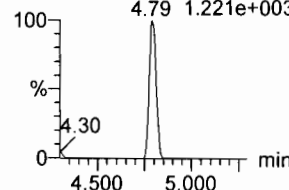


PFOSA

F27:MRM of 2 channels,ES-
498.1 > 77.8
1.070e+005

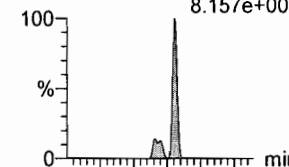


F27:MRM of 2 channels,ES-
498.1 > 478
1.221e+003

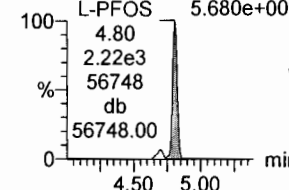


L-PFOS

F29:MRM of 2 channels,ES-
499 > 79.9
8.157e+004

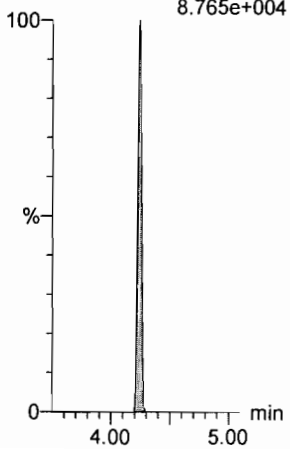


F29:MRM of 2 channels,ES-
499 > 99
5.680e+004



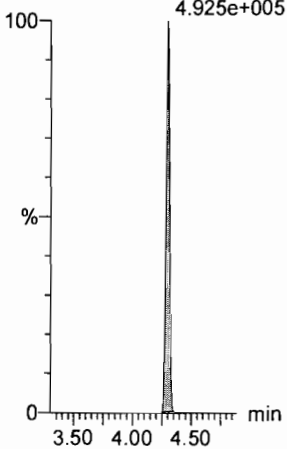
13C2-6:2 FTS

F22:MRM of 1 channel,ES-
429.1 > 408.9
8.765e+004



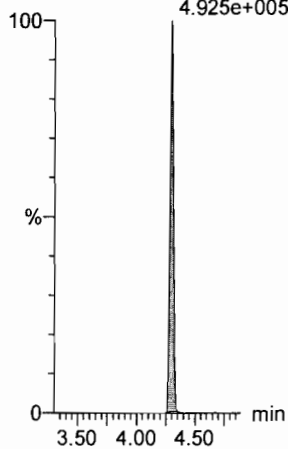
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
4.925e+005



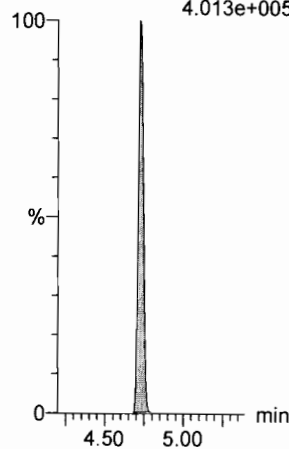
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
4.925e+005



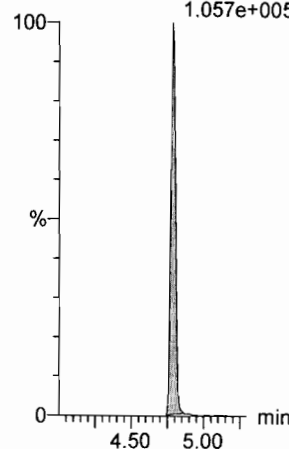
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
4.013e+005



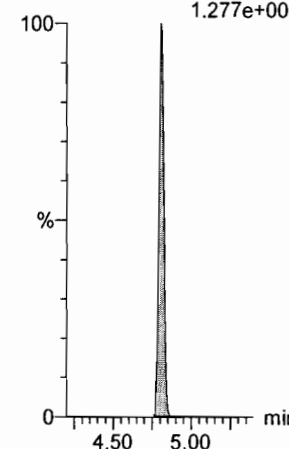
13C8-PFOSA

F31:MRM of 1 channel,ES-
506.1 > 77.7
1.057e+005



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
1.277e+005

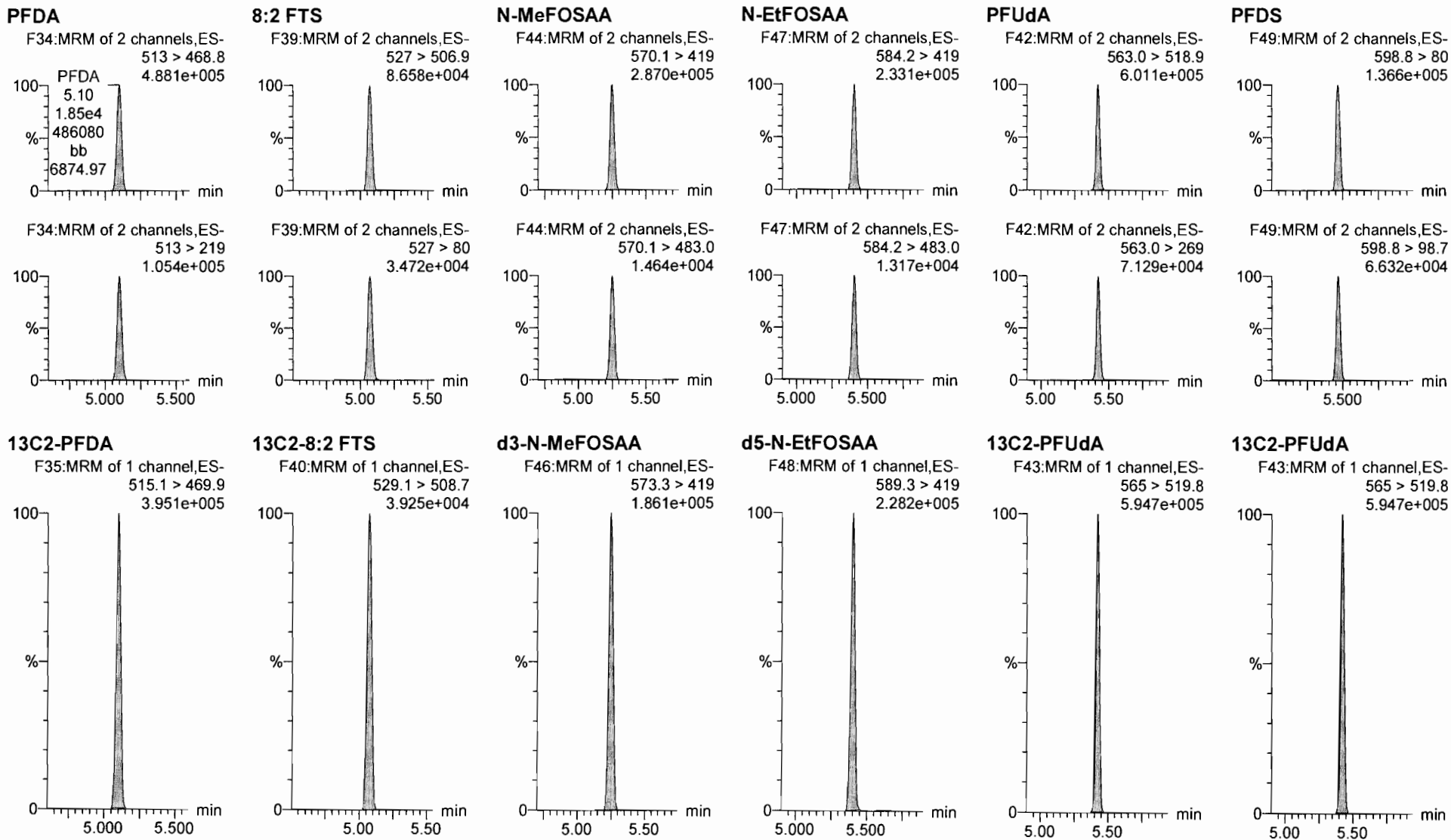


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Last Altered: Wednesday, January 17, 2018 09:25:05 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:25:33 Pacific Standard Time

Name: 180115M2_117, Date: 16-Jan-2018, Time: 22:50:04, ID: ST180115M2-15 PFC CS3 17L2611, Description: PFC CS3 17L2611



Dataset: U:\Q4.PRO\results\180115M2\180115M2-117.qld

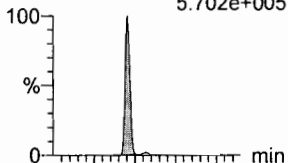
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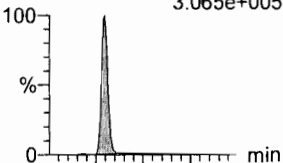
PFD_oA

F50:MRM of 2 channels,ES-
612.9 > 569.0
5.702e+005



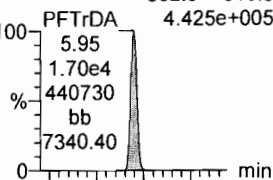
N-MeFOSA

F33:MRM of 2 channels,ES-
512.1 > 168.9
3.065e+005



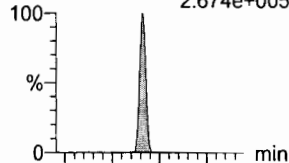
PFT_rDA

F56:MRM of 2 channels,ES-
662.9 > 618.9
4.425e+005



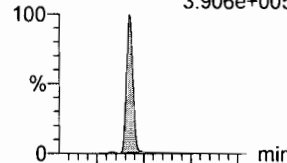
PFT_eDA

F57:MRM of 2 channels,ES-
712.9 > 668.8
2.674e+005



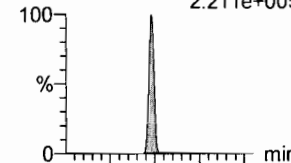
N-EtFOSA

F38:MRM of 2 channels,ES-
526.1 > 168.9
3.906e+005

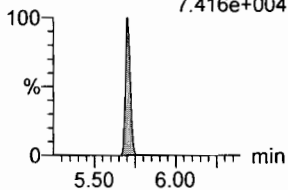


PFH_xDA

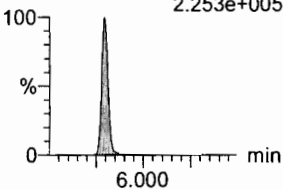
F59:MRM of 2 channels,ES-
813.1 > 768.6
2.211e+005



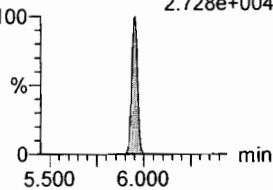
F50:MRM of 2 channels,ES-
612.9 > 318.8
7.416e+004



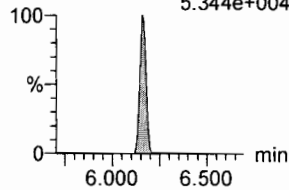
F33:MRM of 2 channels,ES-
512.1 > 219
2.253e+005



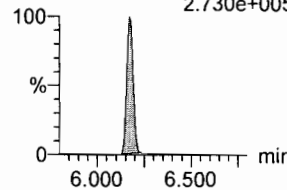
F56:MRM of 2 channels,ES-
662.9 > 319
2.728e+004



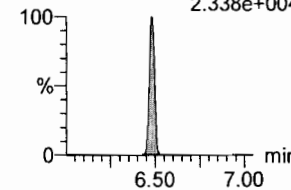
F57:MRM of 2 channels,ES-
712.9 > 369
5.344e+004



F38:MRM of 2 channels,ES-
526.1 > 219
2.730e+005

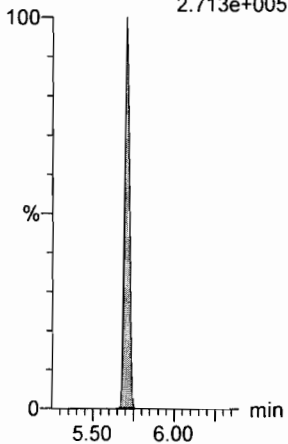


F59:MRM of 2 channels,ES-
813.1 > 219
2.338e+004



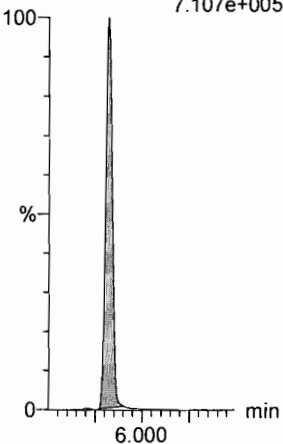
13C2-PFD_oA

F51:MRM of 1 channel,ES-
615.0 > 569.7
2.713e+005



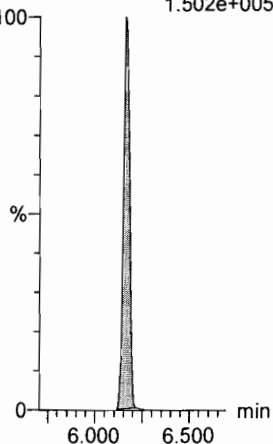
d3-N-MeFOSA

F36:MRM of 1 channel,ES-
515.2 > 168.9
7.107e+005



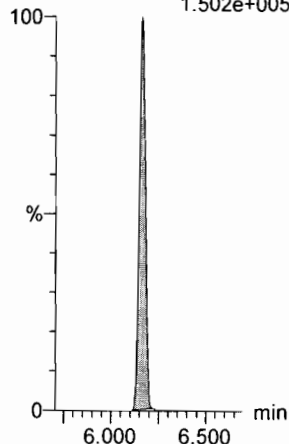
13C2-PFT_rDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.502e+005



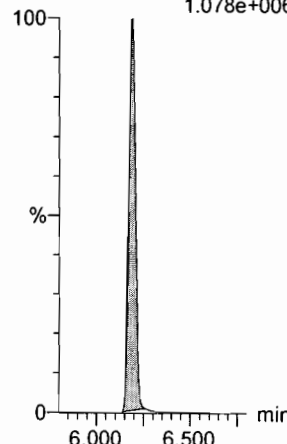
13C2-PFT_eDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.502e+005



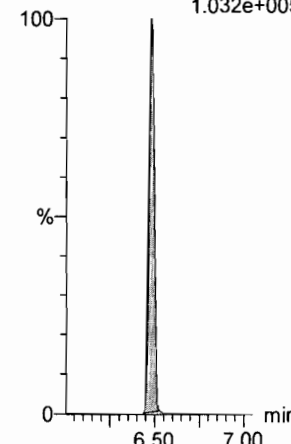
d5-N-ETFOSA

F41:MRM of 1 channel,ES-
531.1 > 168.9
1.078e+006



13C2-PFH_xDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.032e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-117.qld

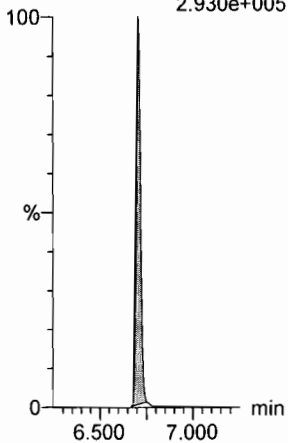
Last Altered: Wednesday, January 17, 2018 09:25:05 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:25:33 Pacific Standard Time

Name: 180115M2_117, Date: 16-Jan-2018, Time: 22:50:04, ID: ST180115M2-15 PFC CS3 17L2611, Description: PFC CS3 17L2611

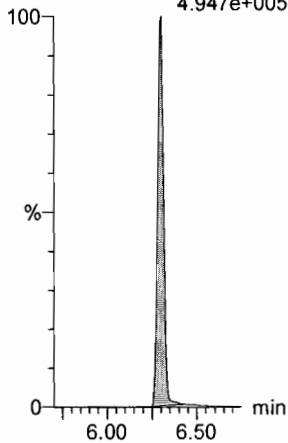
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.930e+005



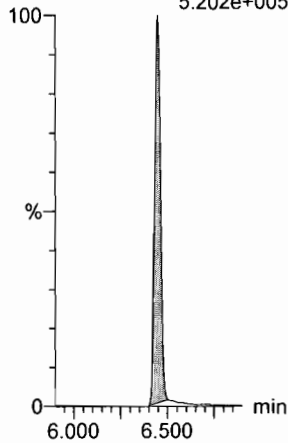
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
4.947e+005



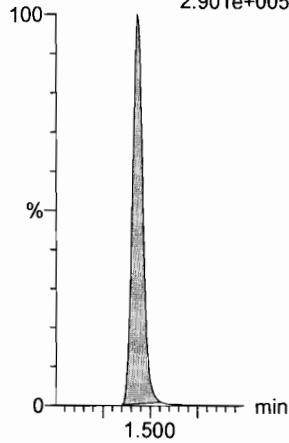
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
5.202e+005



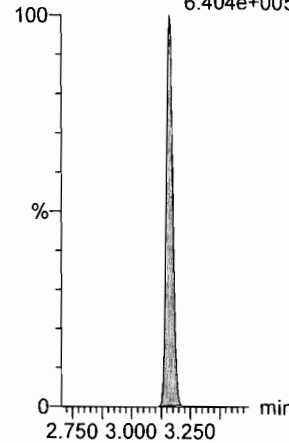
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
2.901e+005



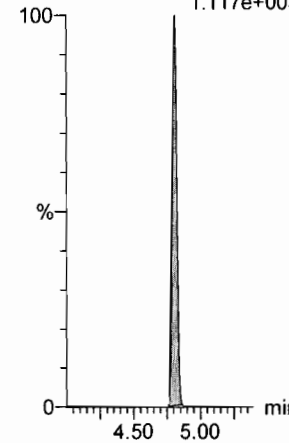
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
6.404e+005



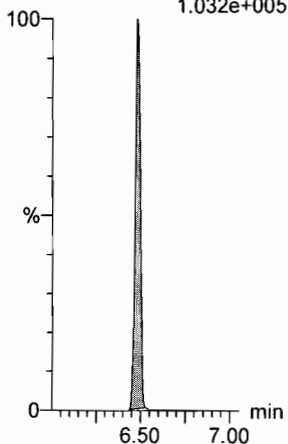
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
1.117e+005



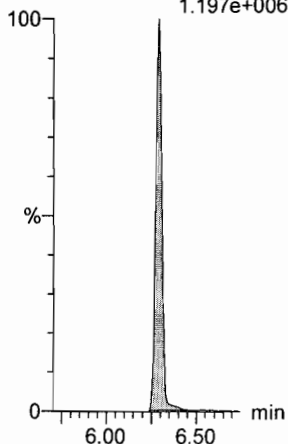
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.032e+005



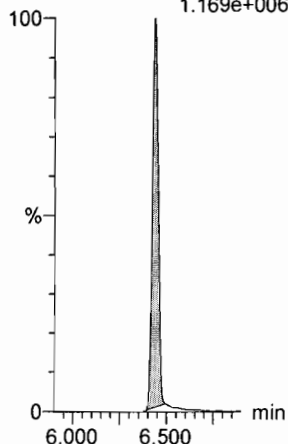
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
1.197e+006



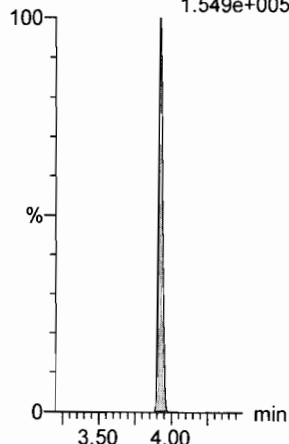
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
1.169e+006



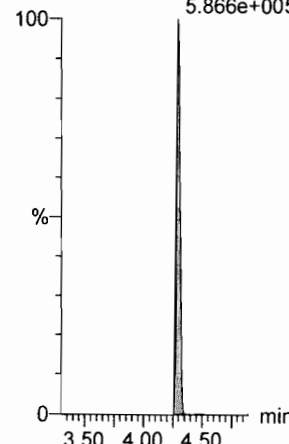
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
1.549e+005



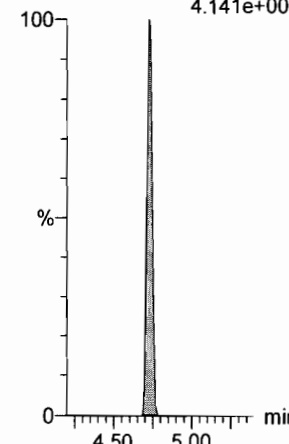
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
5.866e+005



13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
4.141e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-117.qld

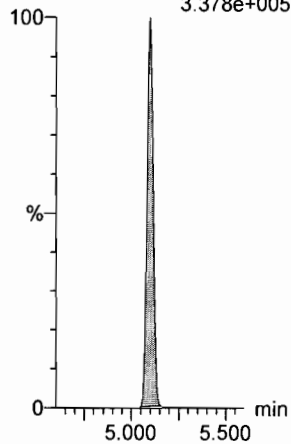
Last Altered: Wednesday, January 17, 2018 09:25:05 Pacific Standard Time

Printed: Wednesday, January 17, 2018 09:25:33 Pacific Standard Time

Name: 180115M2_117, Date: 16-Jan-2018, Time: 22:50:04, ID: ST180115M2-15 PFC CS3 17L2611, Description: PFC CS3 17L2611

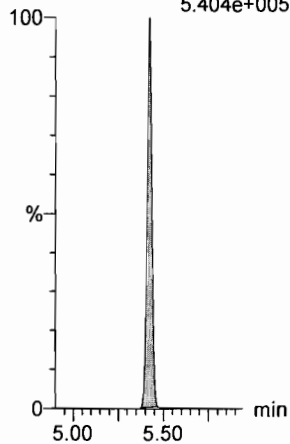
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
3.378e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
5.404e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-IIS.qld

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Method: F:\Projects\PFAS.PRO\MethDB\PFAS_RS-1-23-18.mdb 24 Jan 2018 12:08:53

Calibration: 31 Jan 2018 13:45:13

Name: 180130M2_7, Date: 30-Jan-2018, Time: 12:42:05, ID: ST180130M2-6 PFC CS3 18A1909, Description: PFC CS3 18A1909

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-6 PFC CS3 18A1909	8.96e3	100.0	NO
2	2 13C5-PFHxA	ST180130M2-6 PFC CS3 18A1909	1.41e4	100.0	NO
3	3 13C3-PFHxS	ST180130M2-6 PFC CS3 18A1909	3.31e3	100.0	NO
4	4 13C8-PFOA	ST180130M2-6 PFC CS3 18A1909	1.32e4	100.0	NO
5	5 13C9-PFNA	ST180130M2-6 PFC CS3 18A1909	1.46e4	100.0	NO
6	6 13C4-PFOS	ST180130M2-6 PFC CS3 18A1909	3.13e3	100.0	NO
7	7 13C6-PFDA	ST180130M2-6 PFC CS3 18A1909	1.17e4	100.0	NO
8	8 13C7-PFUDa	ST180130M2-6 PFC CS3 18A1909	1.44e4	100.0	NO

Name: 180130M2_8, Date: 30-Jan-2018, Time: 12:53:35, ID: ST180130M2-7 PFC CS4 18A1910, Description: PFC CS4 18A1910

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-7 PFC CS4 18A1910	8.63e3	96.2	NO
2	2 13C5-PFHxA	ST180130M2-7 PFC CS4 18A1910	1.45e4	103.0	NO
3	3 13C3-PFHxS	ST180130M2-7 PFC CS4 18A1910	3.38e3	102.3	NO
4	4 13C8-PFOA	ST180130M2-7 PFC CS4 18A1910	1.14e4	86.6	NO
5	5 13C9-PFNA	ST180130M2-7 PFC CS4 18A1910	1.34e4	91.8	NO
6	6 13C4-PFOS	ST180130M2-7 PFC CS4 18A1910	2.80e3	89.6	NO
7	7 13C6-PFDA	ST180130M2-7 PFC CS4 18A1910	1.16e4	99.5	NO
8	8 13C7-PFUDa	ST180130M2-7 PFC CS4 18A1910	1.42e4	98.5	NO

Name: 180130M2_9, Date: 30-Jan-2018, Time: 13:05:04, ID: ST180130M2-8 PFC CS5 18A1911, Description: PFC CS5 18A1911

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-8 PFC CS5 18A1911	1.01e4	112.5	NO
2	2 13C5-PFHxA	ST180130M2-8 PFC CS5 18A1911	1.41e4	99.9	NO
3	3 13C3-PFHxS	ST180130M2-8 PFC CS5 18A1911	3.21e3	97.1	NO
4	4 13C8-PFOA	ST180130M2-8 PFC CS5 18A1911	1.42e4	107.6	NO
5	5 13C9-PFNA	ST180130M2-8 PFC CS5 18A1911	1.45e4	99.7	NO
6	6 13C4-PFOS	ST180130M2-8 PFC CS5 18A1911	3.28e3	104.7	NO
7	7 13C6-PFDA	ST180130M2-8 PFC CS5 18A1911	1.26e4	107.6	NO
8	8 13C7-PFUDa	ST180130M2-8 PFC CS5 18A1911	1.63e4	113.2	NO

Name: 180130M2_10, Date: 30-Jan-2018, Time: 13:16:34, ID: ST180130M2-9 PFC CS6 18A2403, Description: PFC CS6 18A2403

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-9 PFC CS6 18A2403	9.70e3	108.2	NO
2	2 13C5-PFHxA	ST180130M2-9 PFC CS6 18A2403	1.35e4	95.7	NO
3	3 13C3-PFHxS	ST180130M2-9 PFC CS6 18A2403	3.04e3	92.0	NO
4	4 13C8-PFOA	ST180130M2-9 PFC CS6 18A2403	1.26e4	95.5	NO
5	5 13C9-PFNA	ST180130M2-9 PFC CS6 18A2403	1.24e4	84.7	NO
6	6 13C4-PFOS	ST180130M2-9 PFC CS6 18A2403	2.73e3	87.3	NO
7	7 13C6-PFDA	ST180130M2-9 PFC CS6 18A2403	1.07e4	91.5	NO
8	8 13C7-PFUDa	ST180130M2-9 PFC CS6 18A2403	1.32e4	91.8	NO

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-IIS.qld

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Name: 180130M2_11, Date: 30-Jan-2018, Time: 13:28:04, ID: ST180130M2-10 PFC CS7 18A2404, Description: PFC CS7 18A2404

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-10 PFC CS7 18A2404	9.07e3	101.1	NO
2	2 13C5-PFHxA	ST180130M2-10 PFC CS7 18A2404	1.22e4	86.3	NO
3	3 13C3-PFHxS	ST180130M2-10 PFC CS7 18A2404	2.86e3	86.5	NO
4	4 13C8-PFOA	ST180130M2-10 PFC CS7 18A2404	9.72e3	73.7	NO
5	5 13C9-PFNA	ST180130M2-10 PFC CS7 18A2404	9.96e3	68.2	NO
6	6 13C4-PFOS	ST180130M2-10 PFC CS7 18A2404	2.74e3	87.6	NO
7	7 13C6-PFDA	ST180130M2-10 PFC CS7 18A2404	9.22e3	78.8	NO
8	8 13C7-PFUDa	ST180130M2-10 PFC CS7 18A2404	1.11e4	77.4	NO

Name: 180130M2_12, Date: 30-Jan-2018, Time: 13:39:34, ID: IPA, Description: IPA

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

Name: 180130M2_13, Date: 30-Jan-2018, Time: 13:51:03, ID: ICV180130M2-1 PFC ICV 18A1903, Description: PFC ICV 18A1903

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ICV180130M2-1 PFC ICV 18A1903	8.15e3	90.9	NO
2	2 13C5-PFHxA	ICV180130M2-1 PFC ICV 18A1903	1.50e4	106.7	NO
3	3 13C3-PFHxS	ICV180130M2-1 PFC ICV 18A1903	3.19e3	96.5	NO
4	4 13C8-PFOA	ICV180130M2-1 PFC ICV 18A1903	1.27e4	96.6	NO
5	5 13C9-PFNA	ICV180130M2-1 PFC ICV 18A1903	1.45e4	99.2	NO
6	6 13C4-PFOS	ICV180130M2-1 PFC ICV 18A1903	3.20e3	102.2	NO
7	7 13C6-PFDA	ICV180130M2-1 PFC ICV 18A1903	1.10e4	94.0	NO
8	8 13C7-PFUDa	ICV180130M2-1 PFC ICV 18A1903	1.35e4	93.9	NO

Name: 180130M2_14, Date: 30-Jan-2018, Time: 14:02:33, ID: IPA, Description: IPA

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

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-IIS.qld

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Name: 180130M2_15, Date: 30-Jan-2018, Time: 14:14:05, ID: 1800188-02 REEPDW133FRB 0.11579, Description: REEPDW133FRB

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800188-02 REEPDW133FRB 0.11579	9.15e3	102.1	NO
2	2 13C5-PFHxA	1800188-02 REEPDW133FRB 0.11579	1.18e4	83.7	NO
3	3 13C3-PFHxS	1800188-02 REEPDW133FRB 0.11579	2.81e3	85.0	NO
4	4 13C8-PFOA	1800188-02 REEPDW133FRB 0.11579	1.00e4	76.2	NO
5	5 13C9-PFNA	1800188-02 REEPDW133FRB 0.11579	1.12e4	77.0	NO
6	6 13C4-PFOS	1800188-02 REEPDW133FRB 0.11579	2.87e3	91.6	NO
7	7 13C6-PFDA	1800188-02 REEPDW133FRB 0.11579	9.32e3	79.6	NO
8	8 13C7-PFUDa	1800188-02 REEPDW133FRB 0.11579	1.02e4	71.0	NO

Name: 180130M2_16, Date: 30-Jan-2018, Time: 14:25:29, ID: 1800204-03 REEPDW137 0.11904, Description: REEPDW137

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800204-03 REEPDW137 0.11904	8.19e3	91.4	NO
2	2 13C5-PFHxA	1800204-03 REEPDW137 0.11904	1.07e4	76.0	NO
3	3 13C3-PFHxS	1800204-03 REEPDW137 0.11904	2.93e3	88.7	NO
4	4 13C8-PFOA	1800204-03 REEPDW137 0.11904	1.02e4	77.4	NO
5	5 13C9-PFNA	1800204-03 REEPDW137 0.11904	8.67e3	59.5	NO
6	6 13C4-PFOS	1800204-03 REEPDW137 0.11904	2.95e3	94.4	NO
7	7 13C6-PFDA	1800204-03 REEPDW137 0.11904	7.72e3	66.0	NO
8	8 13C7-PFUDa	1800204-03 REEPDW137 0.11904	1.09e4	75.4	NO

Name: 180130M2_17, Date: 30-Jan-2018, Time: 14:36:56, ID: 1800204-07 REEPDW513 0.11719, Description: REEPDW513

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800204-07 REEPDW513 0.11719	9.85e3	109.9	NO
2	2 13C5-PFHxA	1800204-07 REEPDW513 0.11719	1.09e4	77.2	NO
3	3 13C3-PFHxS	1800204-07 REEPDW513 0.11719	2.87e3	86.7	NO
4	4 13C8-PFOA	1800204-07 REEPDW513 0.11719	9.74e3	73.9	NO
5	5 13C9-PFNA	1800204-07 REEPDW513 0.11719	1.20e4	82.4	NO
6	6 13C4-PFOS	1800204-07 REEPDW513 0.11719	2.79e3	89.1	NO
7	7 13C6-PFDA	1800204-07 REEPDW513 0.11719	9.37e3	80.1	NO
8	8 13C7-PFUDa	1800204-07 REEPDW513 0.11719	1.31e4	91.2	NO

Name: 180130M2_18, Date: 30-Jan-2018, Time: 14:48:23, ID: B8A0173-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0173-BLK1 Method Blank 0.125	8.17e3	91.1	NO
2	2 13C5-PFHxA	B8A0173-BLK1 Method Blank 0.125	9.34e3	66.3	NO
3	3 13C3-PFHxS	B8A0173-BLK1 Method Blank 0.125	2.85e3	86.3	NO
4	4 13C8-PFOA	B8A0173-BLK1 Method Blank 0.125	9.62e3	73.0	NO
5	5 13C9-PFNA	B8A0173-BLK1 Method Blank 0.125	1.10e4	75.7	NO
6	6 13C4-PFOS	B8A0173-BLK1 Method Blank 0.125	2.48e3	79.3	NO
7	7 13C6-PFDA	B8A0173-BLK1 Method Blank 0.125	7.56e3	64.6	NO
8	8 13C7-PFUDa	B8A0173-BLK1 Method Blank 0.125	1.07e4	74.5	NO

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Name: 180130M2_19, Date: 30-Jan-2018, Time: 14:59:50, ID: B8A0173-BS1 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0173-BS1 OPR 0.125	7.64e3	85.2	NO
2	2 13C5-PFHxA	B8A0173-BS1 OPR 0.125	1.03e4	72.9	NO
3	3 13C3-PFHxS	B8A0173-BS1 OPR 0.125	2.66e3	80.5	NO
4	4 13C8-PFOA	B8A0173-BS1 OPR 0.125	9.67e3	73.4	NO
5	5 13C9-PFNA	B8A0173-BS1 OPR 0.125	1.07e4	73.2	NO
6	6 13C4-PFOS	B8A0173-BS1 OPR 0.125	2.69e3	86.0	NO
7	7 13C6-PFDA	B8A0173-BS1 OPR 0.125	7.91e3	67.6	NO
8	8 13C7-PFUDa	B8A0173-BS1 OPR 0.125	1.10e4	76.4	NO

Name: 180130M2_20, Date: 30-Jan-2018, Time: 15:11:16, ID: B8A0173-BS2 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0173-BS2 OPR 0.125	8.14e3	90.8	NO
2	2 13C5-PFHxA	B8A0173-BS2 OPR 0.125	1.02e4	72.3	NO
3	3 13C3-PFHxS	B8A0173-BS2 OPR 0.125	2.39e3	72.3	NO
4	4 13C8-PFOA	B8A0173-BS2 OPR 0.125	9.94e3	75.4	NO
5	5 13C9-PFNA	B8A0173-BS2 OPR 0.125	1.05e4	72.0	NO
6	6 13C4-PFOS	B8A0173-BS2 OPR 0.125	2.51e3	80.1	NO
7	7 13C6-PFDA	B8A0173-BS2 OPR 0.125	1.07e4	91.1	NO
8	8 13C7-PFUDa	B8A0173-BS2 OPR 0.125	1.20e4	83.2	NO

Name: 180130M2_21, Date: 30-Jan-2018, Time: 15:22:44, ID: B8A0173-BS3 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0173-BS3 OPR 0.125	7.46e3	83.3	NO
2	2 13C5-PFHxA	B8A0173-BS3 OPR 0.125	9.40e3	66.7	NO
3	3 13C3-PFHxS	B8A0173-BS3 OPR 0.125	2.60e3	78.6	NO
4	4 13C8-PFOA	B8A0173-BS3 OPR 0.125	9.98e3	75.7	NO
5	5 13C9-PFNA	B8A0173-BS3 OPR 0.125	1.08e4	73.8	NO
6	6 13C4-PFOS	B8A0173-BS3 OPR 0.125	2.63e3	84.2	NO
7	7 13C6-PFDA	B8A0173-BS3 OPR 0.125	9.19e3	78.5	NO
8	8 13C7-PFUDa	B8A0173-BS3 OPR 0.125	1.20e4	83.4	NO

Name: 180130M2_22, Date: 30-Jan-2018, Time: 15:34:10, ID: B8A0173-BS4 OPR 0.125, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0173-BS4 OPR 0.125	8.09e3	90.2	NO
2	2 13C5-PFHxA	B8A0173-BS4 OPR 0.125	9.84e3	69.8	NO
3	3 13C3-PFHxS	B8A0173-BS4 OPR 0.125	2.93e3	88.7	NO
4	4 13C8-PFOA	B8A0173-BS4 OPR 0.125	9.99e3	75.8	NO
5	5 13C9-PFNA	B8A0173-BS4 OPR 0.125	9.29e3	63.7	NO
6	6 13C4-PFOS	B8A0173-BS4 OPR 0.125	2.69e3	86.1	NO
7	7 13C6-PFDA	B8A0173-BS4 OPR 0.125	9.09e3	77.7	NO
8	8 13C7-PFUDa	B8A0173-BS4 OPR 0.125	1.12e4	77.4	NO

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Name: 180130M2_23, Date: 30-Jan-2018, Time: 15:45:37, ID: B8A0070-BS1 OPR 0.25, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0070-BS1 OPR 0.25	1.08e4	120.5	NO
2	2 13C5-PFHxA	B8A0070-BS1 OPR 0.25	1.36e4	96.2	NO
3	3 13C3-PFHxS	B8A0070-BS1 OPR 0.25	3.19e3	96.6	NO
4	4 13C8-PFOA	B8A0070-BS1 OPR 0.25	1.15e4	87.4	NO
5	5 13C9-PFNA	B8A0070-BS1 OPR 0.25	1.47e4	100.8	NO
6	6 13C4-PFOS	B8A0070-BS1 OPR 0.25	3.29e3	105.2	NO
7	7 13C6-PFDA	B8A0070-BS1 OPR 0.25	1.04e4	89.1	NO
8	8 13C7-PFUDa	B8A0070-BS1 OPR 0.25	1.25e4	87.0	NO

Name: 180130M2_24, Date: 30-Jan-2018, Time: 15:57:07, ID: B8A0070-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0070-BLK1 Method Blank 0.25	9.95e3	110.9	NO
2	2 13C5-PFHxA	B8A0070-BLK1 Method Blank 0.25	1.20e4	85.2	NO
3	3 13C3-PFHxS	B8A0070-BLK1 Method Blank 0.25	3.22e3	97.3	NO
4	4 13C8-PFOA	B8A0070-BLK1 Method Blank 0.25	1.09e4	82.9	NO
5	5 13C9-PFNA	B8A0070-BLK1 Method Blank 0.25	1.33e4	91.5	NO
6	6 13C4-PFOS	B8A0070-BLK1 Method Blank 0.25	3.21e3	102.7	NO
7	7 13C6-PFDA	B8A0070-BLK1 Method Blank 0.25	1.20e4	102.7	NO
8	8 13C7-PFUDa	B8A0070-BLK1 Method Blank 0.25	1.29e4	89.8	NO

Name: 180130M2_25, Date: 30-Jan-2018, Time: 16:08:37, ID: 1800010-01 PFAS Ground Water & Surface Water Lot#1, Description: PFAS Ground Water & Surface Water Lot#122917C1

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800010-01 PFAS Ground Water _Surfa...	9.22e3	102.9	NO
2	2 13C5-PFHxA	1800010-01 PFAS Ground Water _Surfa...	1.07e4	75.8	NO
3	3 13C3-PFHxS	1800010-01 PFAS Ground Water _Surfa...	2.99e3	90.4	NO
4	4 13C8-PFOA	1800010-01 PFAS Ground Water _Surfa...	9.79e3	74.3	NO
5	5 13C9-PFNA	1800010-01 PFAS Ground Water _Surfa...	1.04e4	71.5	NO
6	6 13C4-PFOS	1800010-01 PFAS Ground Water _Surfa...	2.82e3	90.3	NO
7	7 13C6-PFDA	1800010-01 PFAS Ground Water _Surfa...	9.90e3	84.6	NO
8	8 13C7-PFUDa	1800010-01 PFAS Ground Water _Surfa...	1.39e4	96.2	NO

Name: 180130M2_26, Date: 30-Jan-2018, Time: 16:20:04, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA	5.80e0	0.0	YES
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUDa	IPA			NO

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Name: 180130M2_27, Date: 30-Jan-2018, Time: 16:31:30, ID: B8A0054-BS1 OPR 1, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0054-BS1 OPR 1	8.60e3	95.9	NO
2	2 13C5-PFHxA	B8A0054-BS1 OPR 1	1.04e4	74.0	NO
3	3 13C3-PFHxS	B8A0054-BS1 OPR 1	2.85e3	86.4	NO
4	4 13C8-PFOA	B8A0054-BS1 OPR 1	1.03e4	78.0	NO
5	5 13C9-PFNA	B8A0054-BS1 OPR 1	1.11e4	76.1	NO
6	6 13C4-PFOS	B8A0054-BS1 OPR 1	2.81e3	89.7	NO
7	7 13C6-PFDA	B8A0054-BS1 OPR 1	8.33e3	71.1	NO
8	8 13C7-PFUDa	B8A0054-BS1 OPR 1	8.99e3	62.4	NO

Name: 180130M2_28, Date: 30-Jan-2018, Time: 16:42:57, ID: B8A0054-BLK1 Method Blank 1, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0054-BLK1 Method Blank 1	8.19e3	91.4	NO
2	2 13C5-PFHxA	B8A0054-BLK1 Method Blank 1	1.03e4	72.9	NO
3	3 13C3-PFHxS	B8A0054-BLK1 Method Blank 1	2.48e3	74.9	NO
4	4 13C8-PFOA	B8A0054-BLK1 Method Blank 1	9.28e3	70.4	NO
5	5 13C9-PFNA	B8A0054-BLK1 Method Blank 1	9.66e3	66.2	NO
6	6 13C4-PFOS	B8A0054-BLK1 Method Blank 1	2.65e3	84.7	NO
7	7 13C6-PFDA	B8A0054-BLK1 Method Blank 1	7.19e3	61.5	NO
8	8 13C7-PFUDa	B8A0054-BLK1 Method Blank 1	1.09e4	75.9	NO

Name: 180130M2_29, Date: 30-Jan-2018, Time: 16:54:27, ID: 1800011-01 PFAS in Soil Lot#122917C2 1, Description: PFAS in Soil Lot#122917C2

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800011-01 PFAS in Soil Lot#122917C2...	9.75e3	108.8	NO
2	2 13C5-PFHxA	1800011-01 PFAS in Soil Lot#122917C2...	1.12e4	79.8	NO
3	3 13C3-PFHxS	1800011-01 PFAS in Soil Lot#122917C2...	2.92e3	88.3	NO
4	4 13C8-PFOA	1800011-01 PFAS in Soil Lot#122917C2...	1.17e4	88.4	NO
5	5 13C9-PFNA	1800011-01 PFAS in Soil Lot#122917C2...	1.39e4	95.1	NO
6	6 13C4-PFOS	1800011-01 PFAS in Soil Lot#122917C2...	2.61e3	83.4	NO
7	7 13C6-PFDA	1800011-01 PFAS in Soil Lot#122917C2...	9.27e3	79.2	NO
8	8 13C7-PFUDa	1800011-01 PFAS in Soil Lot#122917C2...	1.15e4	79.6	NO

Name: 180130M2_30, Date: 30-Jan-2018, Time: 17:05:57, ID: B8A0115-MS1 Matrix Spike 0.25673, Description: Matrix Spike

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0115-MS1 Matrix Spike 0.25673	7.84e3	87.5	NO
2	2 13C5-PFHxA	B8A0115-MS1 Matrix Spike 0.25673	9.45e3	67.0	NO
3	3 13C3-PFHxS	B8A0115-MS1 Matrix Spike 0.25673	2.30e3	69.7	NO
4	4 13C8-PFOA	B8A0115-MS1 Matrix Spike 0.25673	8.26e3	62.6	NO
5	5 13C9-PFNA	B8A0115-MS1 Matrix Spike 0.25673	9.79e3	67.1	NO
6	6 13C4-PFOS	B8A0115-MS1 Matrix Spike 0.25673	2.73e3	87.4	NO
7	7 13C6-PFDA	B8A0115-MS1 Matrix Spike 0.25673	8.61e3	73.6	NO
8	8 13C7-PFUDa	B8A0115-MS1 Matrix Spike 0.25673	9.23e3	64.0	NO

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Name: 180130M2_31, Date: 30-Jan-2018, Time: 17:17:24, ID: B8A0115-MSD1@10X Matrix Spike Dup 0.25042, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0115-MSD1@10X Matrix Spike Dup...	7.16e3	79.9	NO
2	2 13C5-PFHxA	B8A0115-MSD1@10X Matrix Spike Dup...	8.67e3	61.5	NO
3	3 13C3-PFHxS	B8A0115-MSD1@10X Matrix Spike Dup...	2.26e3	68.4	NO
4	4 13C8-PFOA	B8A0115-MSD1@10X Matrix Spike Dup...	8.36e3	63.4	NO
5	5 13C9-PFNA	B8A0115-MSD1@10X Matrix Spike Dup...	8.23e3	56.4	NO
6	6 13C4-PFOS	B8A0115-MSD1@10X Matrix Spike Dup...	2.29e3	73.2	NO
7	7 13C6-PFDA	B8A0115-MSD1@10X Matrix Spike Dup...	7.36e3	62.9	NO
8	8 13C7-PFUDa	B8A0115-MSD1@10X Matrix Spike Dup...	9.51e3	66.0	NO

Name: 180130M2_32, Date: 30-Jan-2018, Time: 17:28:54, ID: 1800121-02 EB01-20180115 0.25066, Description: EB01-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-02 EB01-20180115 0.25066	8.25e3	92.0	NO
2	2 13C5-PFHxA	1800121-02 EB01-20180115 0.25066	1.16e4	82.2	NO
3	3 13C3-PFHxS	1800121-02 EB01-20180115 0.25066	2.48e3	75.1	NO
4	4 13C8-PFOA	1800121-02 EB01-20180115 0.25066	8.57e3	65.0	NO
5	5 13C9-PFNA	1800121-02 EB01-20180115 0.25066	1.11e4	76.1	NO
6	6 13C4-PFOS	1800121-02 EB01-20180115 0.25066	2.65e3	84.7	NO
7	7 13C6-PFDA	1800121-02 EB01-20180115 0.25066	8.04e3	68.7	NO
8	8 13C7-PFUDa	1800121-02 EB01-20180115 0.25066	1.10e4	76.6	NO

Name: 180130M2_33, Date: 30-Jan-2018, Time: 17:40:22, ID: 1800121-04 IRSite5-GW-05W06-20180115 0.26253, Description: IRSite5-GW-05W06-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-04 IRSite5-GW-05W06-20180...	7.37e3	82.2	NO
2	2 13C5-PFHxA	1800121-04 IRSite5-GW-05W06-20180...	9.28e3	65.8	NO
3	3 13C3-PFHxS	1800121-04 IRSite5-GW-05W06-20180...	2.31e3	69.8	NO
4	4 13C8-PFOA	1800121-04 IRSite5-GW-05W06-20180...	8.36e3	63.4	NO
5	5 13C9-PFNA	1800121-04 IRSite5-GW-05W06-20180...	8.22e3	56.3	NO
6	6 13C4-PFOS	1800121-04 IRSite5-GW-05W06-20180...	2.09e3	66.8	NO
7	7 13C6-PFDA	1800121-04 IRSite5-GW-05W06-20180...	6.26e3	53.5	NO
8	8 13C7-PFUDa	1800121-04 IRSite5-GW-05W06-20180...	1.00e4	69.5	NO

Name: 180130M2_34, Date: 30-Jan-2018, Time: 17:51:52, ID: 1800121-06 IRSite5-GW-05W01-20180115 0.27608, Description: IRSite5-GW-05W01-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-06 IRSite5-GW-05W01-20180...	7.56e3	84.3	NO
2	2 13C5-PFHxA	1800121-06 IRSite5-GW-05W01-20180...	9.44e3	66.9	NO
3	3 13C3-PFHxS	1800121-06 IRSite5-GW-05W01-20180...	2.76e3	83.6	NO
4	4 13C8-PFOA	1800121-06 IRSite5-GW-05W01-20180...	9.15e3	69.4	NO
5	5 13C9-PFNA	1800121-06 IRSite5-GW-05W01-20180...	1.09e4	74.7	NO
6	6 13C4-PFOS	1800121-06 IRSite5-GW-05W01-20180...	2.68e3	85.6	NO
7	7 13C6-PFDA	1800121-06 IRSite5-GW-05W01-20180...	8.73e3	74.6	NO
8	8 13C7-PFUDa	1800121-06 IRSite5-GW-05W01-20180...	9.28e3	64.4	NO

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Name: 180130M2_35, Date: 30-Jan-2018, Time: 18:03:22, ID: 1800121-07 IRSite5-GW-05W03-20180115 0.25196, Description: IRSite5-GW-05W03-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-07 IRSite5-GW-05W03-20180...	7.81e3	87.1	NO
2	2 13C5-PFHxA	1800121-07 IRSite5-GW-05W03-20180...	9.49e3	67.3	NO
3	3 13C3-PFHxS	1800121-07 IRSite5-GW-05W03-20180...	2.64e3	79.8	NO
4	4 13C8-PFOA	1800121-07 IRSite5-GW-05W03-20180...	1.03e4	78.3	NO
5	5 13C9-PFNA	1800121-07 IRSite5-GW-05W03-20180...	1.06e4	72.8	NO
6	6 13C4-PFOS	1800121-07 IRSite5-GW-05W03-20180...	2.75e3	88.0	NO
7	7 13C6-PFDA	1800121-07 IRSite5-GW-05W03-20180...	6.81e3	58.2	NO
8	8 13C7-PFUDa	1800121-07 IRSite5-GW-05W03-20180...	8.76e3	60.8	NO

Name: 180130M2_36, Date: 30-Jan-2018, Time: 18:14:48, ID: 1800121-08 UXOSite14-GW-DPW79A-20180115 0.24743, Description: UXOSite14-GW-DPW79A-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-08 UXOSite14-GW-DPW79A-...	6.99e3	78.0	NO
2	2 13C5-PFHxA	1800121-08 UXOSite14-GW-DPW79A-...	9.49e3	67.3	NO
3	3 13C3-PFHxS	1800121-08 UXOSite14-GW-DPW79A-...	2.29e3	69.2	NO
4	4 13C8-PFOA	1800121-08 UXOSite14-GW-DPW79A-...	8.63e3	65.5	NO
5	5 13C9-PFNA	1800121-08 UXOSite14-GW-DPW79A-...	8.24e3	56.4	NO
6	6 13C4-PFOS	1800121-08 UXOSite14-GW-DPW79A-...	2.15e3	68.9	NO
7	7 13C6-PFDA	1800121-08 UXOSite14-GW-DPW79A-...	8.25e3	70.5	NO
8	8 13C7-PFUDa	1800121-08 UXOSite14-GW-DPW79A-...	9.90e3	68.7	NO

Name: 180130M2_37, Date: 30-Jan-2018, Time: 18:26:15, ID: 1800121-09 UXOSite14-GW-DPW78A-20180115 0.26471, Description: UXOSite14-GW-DPW78A-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-09 UXOSite14-GW-DPW78A-...	7.69e3	85.8	NO
2	2 13C5-PFHxA	1800121-09 UXOSite14-GW-DPW78A-...	8.82e3	62.6	NO
3	3 13C3-PFHxS	1800121-09 UXOSite14-GW-DPW78A-...	2.68e3	80.9	NO
4	4 13C8-PFOA	1800121-09 UXOSite14-GW-DPW78A-...	1.00e4	75.8	NO
5	5 13C9-PFNA	1800121-09 UXOSite14-GW-DPW78A-...	9.33e3	63.9	NO
6	6 13C4-PFOS	1800121-09 UXOSite14-GW-DPW78A-...	2.77e3	88.4	NO
7	7 13C6-PFDA	1800121-09 UXOSite14-GW-DPW78A-...	9.23e3	78.9	NO
8	8 13C7-PFUDa	1800121-09 UXOSite14-GW-DPW78A-...	1.08e4	74.6	NO

Name: 180130M2_38, Date: 30-Jan-2018, Time: 18:37:42, ID: 1800121-10 UXOSite14-GW-DPW77A-20180115 0.26267, Description: UXOSite14-GW-DPW77A-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-10 UXOSite14-GW-DPW77A-...	7.10e3	79.2	NO
2	2 13C5-PFHxA	1800121-10 UXOSite14-GW-DPW77A-...	8.82e3	62.6	NO
3	3 13C3-PFHxS	1800121-10 UXOSite14-GW-DPW77A-...	2.05e3	62.1	NO
4	4 13C8-PFOA	1800121-10 UXOSite14-GW-DPW77A-...	9.80e3	74.4	NO
5	5 13C9-PFNA	1800121-10 UXOSite14-GW-DPW77A-...	9.24e3	63.3	NO
6	6 13C4-PFOS	1800121-10 UXOSite14-GW-DPW77A-...	2.47e3	79.0	NO
7	7 13C6-PFDA	1800121-10 UXOSite14-GW-DPW77A-...	6.88e3	58.8	NO
8	8 13C7-PFUDa	1800121-10 UXOSite14-GW-DPW77A-...	9.20e3	63.8	NO

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Name: 180130M2_39, Date: 30-Jan-2018, Time: 18:49:09, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA	5.35e0	0.0	YES
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUdA	IPA			NO

Name: 180130M2_40, Date: 30-Jan-2018, Time: 19:00:38, ID: ST180130M2-11 PFC CS3 18A1909, Description: PFC CS3 18A1909

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-11 PFC CS3 18A1909	8.40e3	93.7	NO
2	2 13C5-PFHxA	ST180130M2-11 PFC CS3 18A1909	1.63e4	115.9	NO
3	3 13C3-PFHxS	ST180130M2-11 PFC CS3 18A1909	3.63e3	109.9	NO
4	4 13C8-PFOA	ST180130M2-11 PFC CS3 18A1909	1.41e4	107.3	NO
5	5 13C9-PFNA	ST180130M2-11 PFC CS3 18A1909	1.68e4	114.9	NO
6	6 13C4-PFOS	ST180130M2-11 PFC CS3 18A1909	3.58e3	114.5	NO
7	7 13C6-PFDA	ST180130M2-11 PFC CS3 18A1909	1.48e4	126.1	NO
8	8 13C7-PFUdA	ST180130M2-11 PFC CS3 18A1909	1.52e4	105.2	NO

Name: 180130M2_41, Date: 30-Jan-2018, Time: 19:12:08, ID: IPA, Description: IPA

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

Name: 180130M2_42, Date: 30-Jan-2018, Time: 19:23:37, ID: 1800121-11 IRSite1-GW-01W48A -20180115 0.25842, Description: IRSite1-GW-01W48A -20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-11 IRSite1-GW-01W48A -2018...	6.97e3	77.8	NO
2	2 13C5-PFHxA	1800121-11 IRSite1-GW-01W48A -2018...	8.99e3	63.8	NO
3	3 13C3-PFHxS	1800121-11 IRSite1-GW-01W48A -2018...	2.11e3	63.8	NO
4	4 13C8-PFOA	1800121-11 IRSite1-GW-01W48A -2018...	8.49e3	64.4	NO
5	5 13C9-PFNA	1800121-11 IRSite1-GW-01W48A -2018...	8.25e3	56.5	NO
6	6 13C4-PFOS	1800121-11 IRSite1-GW-01W48A -2018...	1.92e3	61.5	NO
7	7 13C6-PFDA	1800121-11 IRSite1-GW-01W48A -2018...	7.71e3	65.9	NO
8	8 13C7-PFUdA	1800121-11 IRSite1-GW-01W48A -2018...	9.50e3	65.9	NO

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Name: 180130M2_43, Date: 30-Jan-2018, Time: 19:35:04, ID: 1800121-12 IRSite1-GW-01W49A- 20180115 0.26214, Description: IRSite1-GW-01W49A- 20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-12 IRSite1-GW-01W49A- 201...	6.50e3	72.5	NO
2	2 13C5-PFHxA	1800121-12 IRSite1-GW-01W49A- 201...	9.23e3	65.5	NO
3	3 13C3-PFHxS	1800121-12 IRSite1-GW-01W49A- 201...	2.11e3	63.7	NO
4	4 13C8-PFOA	1800121-12 IRSite1-GW-01W49A- 201...	8.87e3	67.3	NO
5	5 13C9-PFNA	1800121-12 IRSite1-GW-01W49A- 201...	8.75e3	60.0	NO
6	6 13C4-PFOS	1800121-12 IRSite1-GW-01W49A- 201...	2.22e3	71.0	NO
7	7 13C6-PFDA	1800121-12 IRSite1-GW-01W49A- 201...	6.06e3	51.8	NO
8	8 13C7-PFUDa	1800121-12 IRSite1-GW-01W49A- 201...	8.15e3	56.6	NO

Name: 180130M2_44, Date: 30-Jan-2018, Time: 19:46:34, ID: 1800121-13 IRSite1-GW-01W13A- 20180115 0.24739, Description: IRSite1-GW-01W13A- 20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-13 IRSite1-GW-01W13A- 201...	6.61e3	73.7	NO
2	2 13C5-PFHxA	1800121-13 IRSite1-GW-01W13A- 201...	9.23e3	65.5	NO
3	3 13C3-PFHxS	1800121-13 IRSite1-GW-01W13A- 201...	2.47e3	74.9	NO
4	4 13C8-PFOA	1800121-13 IRSite1-GW-01W13A- 201...	9.97e3	75.7	NO
5	5 13C9-PFNA	1800121-13 IRSite1-GW-01W13A- 201...	8.70e3	59.6	NO
6	6 13C4-PFOS	1800121-13 IRSite1-GW-01W13A- 201...	2.25e3	71.8	NO
7	7 13C6-PFDA	1800121-13 IRSite1-GW-01W13A- 201...	7.94e3	67.8	NO
8	8 13C7-PFUDa	1800121-13 IRSite1-GW-01W13A- 201...	1.13e4	78.4	NO

Name: 180130M2_45, Date: 30-Jan-2018, Time: 19:58:03, ID: 1800121-14 DUP01-20180115 0.26578, Description: DUP01-20180115

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800121-14 DUP01-20180115 0.26578	7.15e3	79.8	NO
2	2 13C5-PFHxA	1800121-14 DUP01-20180115 0.26578	9.31e3	66.0	NO
3	3 13C3-PFHxS	1800121-14 DUP01-20180115 0.26578	2.57e3	77.8	NO
4	4 13C8-PFOA	1800121-14 DUP01-20180115 0.26578	9.39e3	71.2	NO
5	5 13C9-PFNA	1800121-14 DUP01-20180115 0.26578	8.58e3	58.8	NO
6	6 13C4-PFOS	1800121-14 DUP01-20180115 0.26578	2.76e3	88.3	NO
7	7 13C6-PFDA	1800121-14 DUP01-20180115 0.26578	8.79e3	75.1	NO
8	8 13C7-PFUDa	1800121-14 DUP01-20180115 0.26578	1.17e4	80.9	NO

Name: 180130M2_46, Date: 30-Jan-2018, Time: 20:09:34, ID: 1800132-14 PITTS-EB-011118-1400 0.12081, Description: PITTS-EB-011118-1400

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800132-14 PITTS-EB-011118-1400 0.1..	7.07e3	78.8	NO
2	2 13C5-PFHxA	1800132-14 PITTS-EB-011118-1400 0.1..	9.49e3	67.3	NO
3	3 13C3-PFHxS	1800132-14 PITTS-EB-011118-1400 0.1..	2.45e3	74.0	NO
4	4 13C8-PFOA	1800132-14 PITTS-EB-011118-1400 0.1..	9.59e3	72.7	NO
5	5 13C9-PFNA	1800132-14 PITTS-EB-011118-1400 0.1..	1.02e4	69.6	NO
6	6 13C4-PFOS	1800132-14 PITTS-EB-011118-1400 0.1..	2.41e3	77.1	NO
7	7 13C6-PFDA	1800132-14 PITTS-EB-011118-1400 0.1..	7.28e3	62.2	NO
8	8 13C7-PFUDa	1800132-14 PITTS-EB-011118-1400 0.1..	1.10e4	76.3	NO

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Name: 180130M2_47, Date: 30-Jan-2018, Time: 20:21:00, ID: B8A0140-BS1 OPR 0.25, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0140-BS1 OPR 0.25	8.56e3	95.5	NO
2	2 13C5-PFHxA	B8A0140-BS1 OPR 0.25	9.85e3	69.9	NO
3	3 13C3-PFHxS	B8A0140-BS1 OPR 0.25	2.40e3	72.7	NO
4	4 13C8-PFOA	B8A0140-BS1 OPR 0.25	1.03e4	77.9	NO
5	5 13C9-PFNA	B8A0140-BS1 OPR 0.25	9.43e3	64.6	NO
6	6 13C4-PFOS	B8A0140-BS1 OPR 0.25	2.27e3	72.6	NO
7	7 13C6-PFDA	B8A0140-BS1 OPR 0.25	9.01e3	77.0	NO
8	8 13C7-PFUDa	B8A0140-BS1 OPR 0.25	8.41e3	58.3	NO

Name: 180130M2_48, Date: 30-Jan-2018, Time: 20:32:30, ID: B8A0140-BSD1 LCSD 0.25, Description: LCSD

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0140-BSD1 LCSD 0.25	8.62e3	96.1	NO
2	2 13C5-PFHxA	B8A0140-BSD1 LCSD 0.25	9.56e3	67.8	NO
3	3 13C3-PFHxS	B8A0140-BSD1 LCSD 0.25	2.36e3	71.5	NO
4	4 13C8-PFOA	B8A0140-BSD1 LCSD 0.25	9.91e3	75.2	NO
5	5 13C9-PFNA	B8A0140-BSD1 LCSD 0.25	1.09e4	74.7	NO
6	6 13C4-PFOS	B8A0140-BSD1 LCSD 0.25	2.34e3	74.9	NO
7	7 13C6-PFDA	B8A0140-BSD1 LCSD 0.25	9.45e3	80.7	NO
8	8 13C7-PFUDa	B8A0140-BSD1 LCSD 0.25	1.18e4	82.1	NO

Name: 180130M2_49, Date: 30-Jan-2018, Time: 20:44:00, ID: B8A0140-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0140-BLK1 Method Blank 0.25	9.23e3	102.9	NO
2	2 13C5-PFHxA	B8A0140-BLK1 Method Blank 0.25	1.09e4	77.0	NO
3	3 13C3-PFHxS	B8A0140-BLK1 Method Blank 0.25	2.78e3	84.0	NO
4	4 13C8-PFOA	B8A0140-BLK1 Method Blank 0.25	1.15e4	87.3	NO
5	5 13C9-PFNA	B8A0140-BLK1 Method Blank 0.25	1.01e4	69.3	NO
6	6 13C4-PFOS	B8A0140-BLK1 Method Blank 0.25	2.24e3	71.6	NO
7	7 13C6-PFDA	B8A0140-BLK1 Method Blank 0.25	1.09e4	92.9	NO
8	8 13C7-PFUDa	B8A0140-BLK1 Method Blank 0.25	1.42e4	98.2	NO

Name: 180130M2_50, Date: 30-Jan-2018, Time: 20:55:29, ID: 1800127-01 EB02-20180116 0.27074, Description: EB02-20180116

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800127-01 EB02-20180116 0.27074	8.36e3	93.2	NO
2	2 13C5-PFHxA	1800127-01 EB02-20180116 0.27074	1.09e4	77.1	NO
3	3 13C3-PFHxS	1800127-01 EB02-20180116 0.27074	2.30e3	69.6	NO
4	4 13C8-PFOA	1800127-01 EB02-20180116 0.27074	9.27e3	70.3	NO
5	5 13C9-PFNA	1800127-01 EB02-20180116 0.27074	1.15e4	78.7	NO
6	6 13C4-PFOS	1800127-01 EB02-20180116 0.27074	2.59e3	82.8	NO
7	7 13C6-PFDA	1800127-01 EB02-20180116 0.27074	8.49e3	72.5	NO
8	8 13C7-PFUDa	1800127-01 EB02-20180116 0.27074	1.30e4	90.4	NO

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Name: 180130M2_51, Date: 30-Jan-2018, Time: 21:06:58, ID: 1800127-02 IRSite1-GW-01W53A-20180116 0.26369, Description: IRSite1-GW-01W53A-20180116

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1800127-02 IRSite1-GW-01W53A-2018...	8.16e3	91.0	NO
2	2	13C5-PFHxA	1800127-02 IRSite1-GW-01W53A-2018...	9.39e3	66.6	NO
3	3	13C3-PFHxS	1800127-02 IRSite1-GW-01W53A-2018...	2.46e3	74.3	NO
4	4	13C8-PFOA	1800127-02 IRSite1-GW-01W53A-2018...	1.06e4	80.5	NO
5	5	13C9-PFNA	1800127-02 IRSite1-GW-01W53A-2018...	1.03e4	70.6	NO
6	6	13C4-PFOS	1800127-02 IRSite1-GW-01W53A-2018...	2.63e3	84.0	NO
7	7	13C6-PFDA	1800127-02 IRSite1-GW-01W53A-2018...	8.46e3	72.3	NO
8	8	13C7-PFUDa	1800127-02 IRSite1-GW-01W53A-2018...	1.05e4	72.6	NO

Name: 180130M2_52, Date: 30-Jan-2018, Time: 21:18:25, ID: 1800127-03 IRSite1-GW-MW80A-20180116 0.23471, Description: IRSite1-GW-MW80A-20180116

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1800127-03 IRSite1-GW-MW80A-2018...	6.92e3	77.2	NO
2	2	13C5-PFHxA	1800127-03 IRSite1-GW-MW80A-2018...	8.20e3	58.2	NO
3	3	13C3-PFHxS	1800127-03 IRSite1-GW-MW80A-2018...	2.50e3	75.6	NO
4	4	13C8-PFOA	1800127-03 IRSite1-GW-MW80A-2018...	9.14e3	69.3	NO
5	5	13C9-PFNA	1800127-03 IRSite1-GW-MW80A-2018...	1.08e4	74.3	NO
6	6	13C4-PFOS	1800127-03 IRSite1-GW-MW80A-2018...	2.48e3	79.4	NO
7	7	13C6-PFDA	1800127-03 IRSite1-GW-MW80A-2018...	8.96e3	76.6	NO
8	8	13C7-PFUDa	1800127-03 IRSite1-GW-MW80A-2018...	1.29e4	89.3	NO

Name: 180130M2_53, Date: 30-Jan-2018, Time: 21:29:51, ID: 1800127-04 IRSite1-GW-01W28B-20180116 0.27609, Description: IRSite1-GW-01W28B-20180116

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1800127-04 IRSite1-GW-01W28B-2018...	8.53e3	95.1	NO
2	2	13C5-PFHxA	1800127-04 IRSite1-GW-01W28B-2018...	1.05e4	74.3	NO
3	3	13C3-PFHxS	1800127-04 IRSite1-GW-01W28B-2018...	2.75e3	83.3	NO
4	4	13C8-PFOA	1800127-04 IRSite1-GW-01W28B-2018...	1.02e4	77.5	NO
5	5	13C9-PFNA	1800127-04 IRSite1-GW-01W28B-2018...	9.44e3	64.7	NO
6	6	13C4-PFOS	1800127-04 IRSite1-GW-01W28B-2018...	2.82e3	90.1	NO
7	7	13C6-PFDA	1800127-04 IRSite1-GW-01W28B-2018...	8.48e3	72.5	NO
8	8	13C7-PFUDa	1800127-04 IRSite1-GW-01W28B-2018...	8.81e3	61.1	NO

Name: 180130M2_54, Date: 30-Jan-2018, Time: 21:41:18, ID: 1800127-05 IRSite1-GW-01W38AR-20180116 0.26613, Description: IRSite1-GW-01W38AR-20180116

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1800127-05 IRSite1-GW-01W38AR-20...	7.68e3	85.6	NO
2	2	13C5-PFHxA	1800127-05 IRSite1-GW-01W38AR-20...	9.09e3	64.5	NO
3	3	13C3-PFHxS	1800127-05 IRSite1-GW-01W38AR-20...	2.90e3	87.9	NO
4	4	13C8-PFOA	1800127-05 IRSite1-GW-01W38AR-20...	1.06e4	80.5	NO
5	5	13C9-PFNA	1800127-05 IRSite1-GW-01W38AR-20...	1.32e4	90.3	NO
6	6	13C4-PFOS	1800127-05 IRSite1-GW-01W38AR-20...	2.47e3	78.8	NO
7	7	13C6-PFDA	1800127-05 IRSite1-GW-01W38AR-20...	9.06e3	77.4	NO
8	8	13C7-PFUDa	1800127-05 IRSite1-GW-01W38AR-20...	9.40e3	65.2	NO

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Name: 180130M2_55, Date: 30-Jan-2018, Time: 21:52:45, ID: 1800127-06 IRSite1-GW-MW86A-20180116 0.26659, Description: IRSite1-GW-MW86A-20180116

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800127-06 IRSite1-GW-MW86A-2018...	7.60e3	84.8	NO
2	2 13C5-PFHxA	1800127-06 IRSite1-GW-MW86A-2018...	1.04e4	74.0	NO
3	3 13C3-PFHxS	1800127-06 IRSite1-GW-MW86A-2018...	2.54e3	77.0	NO
4	4 13C8-PFOA	1800127-06 IRSite1-GW-MW86A-2018...	1.08e4	81.6	NO
5	5 13C9-PFNA	1800127-06 IRSite1-GW-MW86A-2018...	9.52e3	65.2	NO
6	6 13C4-PFOS	1800127-06 IRSite1-GW-MW86A-2018...	2.40e3	76.6	NO
7	7 13C6-PFDA	1800127-06 IRSite1-GW-MW86A-2018...	8.45e3	72.2	NO
8	8 13C7-PFUDa	1800127-06 IRSite1-GW-MW86A-2018...	1.05e4	72.8	NO

Name: 180130M2_56, Date: 30-Jan-2018, Time: 22:04:12, ID: 1800127-07 IRSite1-GW-MW85A-20180116 0.23848, Description: IRSite1-GW-MW85A-20180116

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800127-07 IRSite1-GW-MW85A-2018...	6.97e3	77.8	NO
2	2 13C5-PFHxA	1800127-07 IRSite1-GW-MW85A-2018...	9.68e3	68.6	NO
3	3 13C3-PFHxS	1800127-07 IRSite1-GW-MW85A-2018...	2.30e3	69.6	NO
4	4 13C8-PFOA	1800127-07 IRSite1-GW-MW85A-2018...	9.86e3	74.8	NO
5	5 13C9-PFNA	1800127-07 IRSite1-GW-MW85A-2018...	1.02e4	69.9	NO
6	6 13C4-PFOS	1800127-07 IRSite1-GW-MW85A-2018...	2.51e3	80.3	NO
7	7 13C6-PFDA	1800127-07 IRSite1-GW-MW85A-2018...	8.03e3	68.6	NO
8	8 13C7-PFUDa	1800127-07 IRSite1-GW-MW85A-2018...	1.07e4	74.5	NO

Name: 180130M2_57, Date: 30-Jan-2018, Time: 22:15:39, ID: 1800127-08 DUP02-20180116 0.25425, Description: DUP02-20180116

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800127-08 DUP02-20180116 0.25425	7.69e3	85.8	NO
2	2 13C5-PFHxA	1800127-08 DUP02-20180116 0.25425	1.00e4	71.1	NO
3	3 13C3-PFHxS	1800127-08 DUP02-20180116 0.25425	2.56e3	77.4	NO
4	4 13C8-PFOA	1800127-08 DUP02-20180116 0.25425	9.61e3	72.9	NO
5	5 13C9-PFNA	1800127-08 DUP02-20180116 0.25425	1.06e4	72.9	NO
6	6 13C4-PFOS	1800127-08 DUP02-20180116 0.25425	2.56e3	82.0	NO
7	7 13C6-PFDA	1800127-08 DUP02-20180116 0.25425	7.32e3	62.6	NO
8	8 13C7-PFUDa	1800127-08 DUP02-20180116 0.25425	1.17e4	81.2	NO

Name: 180130M2_58, Date: 30-Jan-2018, Time: 22:27:06, ID: 1800127-09 IRSite1-GW-MW82A-20180116 0.26201, Description: IRSite1-GW-MW82A-20180116

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800127-09 IRSite1-GW-MW82A-2018...	7.72e3	86.1	NO
2	2 13C5-PFHxA	1800127-09 IRSite1-GW-MW82A-2018...	9.55e3	67.7	NO
3	3 13C3-PFHxS	1800127-09 IRSite1-GW-MW82A-2018...	2.44e3	73.7	NO
4	4 13C8-PFOA	1800127-09 IRSite1-GW-MW82A-2018...	8.23e3	62.4	NO
5	5 13C9-PFNA	1800127-09 IRSite1-GW-MW82A-2018...	9.22e3	63.2	NO
6	6 13C4-PFOS	1800127-09 IRSite1-GW-MW82A-2018...	2.28e3	72.9	NO
7	7 13C6-PFDA	1800127-09 IRSite1-GW-MW82A-2018...	8.90e3	76.0	NO
8	8 13C7-PFUDa	1800127-09 IRSite1-GW-MW82A-2018...	1.07e4	74.4	NO

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Name: 180130M2_59, Date: 30-Jan-2018, Time: 22:38:33, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	7.32e0	0.1	YES
5	5 13C9-PFNA	IPA	7.25e0	0.0	YES
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUdA	IPA			NO

Name: 180130M2_60, Date: 30-Jan-2018, Time: 22:50:01, ID: ST180130M2-12 PFC CS0 18A1906, Description: PFC CS0 18A1906

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-12 PFC CS0 18A1906	9.88e3	110.2	NO
2	2 13C5-PFHxA	ST180130M2-12 PFC CS0 18A1906	1.52e4	108.0	NO
3	3 13C3-PFHxS	ST180130M2-12 PFC CS0 18A1906	3.89e3	117.7	NO
4	4 13C8-PFOA	ST180130M2-12 PFC CS0 18A1906	1.39e4	105.1	NO
5	5 13C9-PFNA	ST180130M2-12 PFC CS0 18A1906	1.43e4	97.9	NO
6	6 13C4-PFOS	ST180130M2-12 PFC CS0 18A1906	4.10e3	131.0	NO
7	7 13C6-PFDA	ST180130M2-12 PFC CS0 18A1906	1.44e4	122.9	NO
8	8 13C7-PFUdA	ST180130M2-12 PFC CS0 18A1906	1.62e4	112.2	NO

Name: 180130M2_61, Date: 30-Jan-2018, Time: 23:01:30, ID: IPA, Description: IPA

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

Name: 180130M2_62, Date: 30-Jan-2018, Time: 23:13:00, ID: 1800139-01 LH-TAP 0.27467, Description: LH-TAP

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800139-01 LH-TAP 0.27467	8.36e3	93.3	NO
2	2 13C5-PFHxA	1800139-01 LH-TAP 0.27467	1.04e4	74.0	NO
3	3 13C3-PFHxS	1800139-01 LH-TAP 0.27467	2.36e3	71.4	NO
4	4 13C8-PFOA	1800139-01 LH-TAP 0.27467	8.15e3	61.8	NO
5	5 13C9-PFNA	1800139-01 LH-TAP 0.27467	1.01e4	69.0	NO
6	6 13C4-PFOS	1800139-01 LH-TAP 0.27467	2.47e3	78.9	NO
7	7 13C6-PFDA	1800139-01 LH-TAP 0.27467	8.03e3	68.6	NO
8	8 13C7-PFUdA	1800139-01 LH-TAP 0.27467	1.05e4	72.5	NO

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Name: 180130M2_63, Date: 30-Jan-2018, Time: 23:24:27, ID: 1800139-02 LH-RAW 0.27394, Description: LH-RAW

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800139-02 LH-RAW 0.27394	8.80e3	98.1	NO
2	2 13C5-PFHxA	1800139-02 LH-RAW 0.27394	1.02e4	72.2	NO
3	3 13C3-PFHxS	1800139-02 LH-RAW 0.27394	2.64e3	79.7	NO
4	4 13C8-PFOA	1800139-02 LH-RAW 0.27394	1.07e4	80.9	NO
5	5 13C9-PFNA	1800139-02 LH-RAW 0.27394	1.01e4	69.2	NO
6	6 13C4-PFOS	1800139-02 LH-RAW 0.27394	2.28e3	72.9	NO
7	7 13C6-PFDA	1800139-02 LH-RAW 0.27394	7.65e3	65.4	NO
8	8 13C7-PFUDa	1800139-02 LH-RAW 0.27394	1.01e4	70.3	NO

Name: 180130M2_64, Date: 30-Jan-2018, Time: 23:35:57, ID: 1701953-01@10X CV-Dup09-20171213 0.2568, Description: CV-Dup09-20171213

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701953-01@10X CV-Dup09-20171213...	8.89e2	9.9	YES
2	2 13C5-PFHxA	1701953-01@10X CV-Dup09-20171213...	1.12e3	7.9	YES
3	3 13C3-PFHxS	1701953-01@10X CV-Dup09-20171213...	2.45e2	7.4	YES
4	4 13C8-PFOA	1701953-01@10X CV-Dup09-20171213...	1.08e3	8.2	YES
5	5 13C9-PFNA	1701953-01@10X CV-Dup09-20171213...	9.59e2	6.6	YES
6	6 13C4-PFOS	1701953-01@10X CV-Dup09-20171213...	2.78e2	8.9	YES
7	7 13C6-PFDA	1701953-01@10X CV-Dup09-20171213...	9.26e2	7.9	YES
8	8 13C7-PFUDa	1701953-01@10X CV-Dup09-20171213...	1.20e3	8.3	YES

Name: 180130M2_65, Date: 30-Jan-2018, Time: 23:47:26, ID: 1701953-10@10X SA-PZ118S-20171213 0.23505, Description: SA-PZ118S-20171213

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1701953-10@10X SA-PZ118S-201712...	9.10e2	10.2	YES
2	2 13C5-PFHxA	1701953-10@10X SA-PZ118S-201712...	1.19e3	8.4	YES
3	3 13C3-PFHxS	1701953-10@10X SA-PZ118S-201712...	2.92e2	8.8	YES
4	4 13C8-PFOA	1701953-10@10X SA-PZ118S-201712...	1.07e3	8.1	YES
5	5 13C9-PFNA	1701953-10@10X SA-PZ118S-201712...	1.00e3	6.9	YES
6	6 13C4-PFOS	1701953-10@10X SA-PZ118S-201712...	2.02e2	6.4	YES
7	7 13C6-PFDA	1701953-10@10X SA-PZ118S-201712...	9.16e2	7.8	YES
8	8 13C7-PFUDa	1701953-10@10X SA-PZ118S-201712...	1.09e3	7.6	YES

Name: 180130M2_66, Date: 30-Jan-2018, Time: 23:58:55, ID: IPA, Description: IPA

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

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Name: 180130M2_67, Date: 31-Jan-2018, Time: 00:10:22, ID: B7L0136-BLK1 Method Blank 0.0075, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0136-BLK1 Method Blank 0.0075	7.32e3	81.6	NO
2	2 13C5-PFHxA	B7L0136-BLK1 Method Blank 0.0075	9.76e3	69.2	NO
3	3 13C3-PFHxS	B7L0136-BLK1 Method Blank 0.0075	2.40e3	72.6	NO
4	4 13C8-PFOA	B7L0136-BLK1 Method Blank 0.0075	1.01e4	76.3	NO
5	5 13C9-PFNA	B7L0136-BLK1 Method Blank 0.0075	9.78e3	67.1	NO
6	6 13C4-PFOS	B7L0136-BLK1 Method Blank 0.0075	2.20e3	70.3	NO
7	7 13C6-PFDA	B7L0136-BLK1 Method Blank 0.0075	6.51e3	55.7	NO
8	8 13C7-PFUDa	B7L0136-BLK1 Method Blank 0.0075	1.10e4	76.1	NO

Name: 180130M2_68, Date: 31-Jan-2018, Time: 00:21:50, ID: B7L0136-BS1 OPR 0.0075, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0136-BS1 OPR 0.0075	7.80e3	87.0	NO
2	2 13C5-PFHxA	B7L0136-BS1 OPR 0.0075	9.62e3	68.2	NO
3	3 13C3-PFHxS	B7L0136-BS1 OPR 0.0075	2.29e3	69.3	NO
4	4 13C8-PFOA	B7L0136-BS1 OPR 0.0075	8.11e3	61.5	NO
5	5 13C9-PFNA	B7L0136-BS1 OPR 0.0075	9.72e3	66.6	NO
6	6 13C4-PFOS	B7L0136-BS1 OPR 0.0075	2.41e3	76.9	NO
7	7 13C6-PFDA	B7L0136-BS1 OPR 0.0075	7.64e3	65.3	NO
8	8 13C7-PFUDa	B7L0136-BS1 OPR 0.0075	1.00e4	69.6	NO

Name: 180130M2_69, Date: 31-Jan-2018, Time: 00:33:19, ID: B7L0136-BS2 OPR 0.0075, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0136-BS2 OPR 0.0075	8.04e3	89.7	NO
2	2 13C5-PFHxA	B7L0136-BS2 OPR 0.0075	9.31e3	66.0	NO
3	3 13C3-PFHxS	B7L0136-BS2 OPR 0.0075	2.23e3	67.5	NO
4	4 13C8-PFOA	B7L0136-BS2 OPR 0.0075	8.80e3	66.7	NO
5	5 13C9-PFNA	B7L0136-BS2 OPR 0.0075	9.41e3	64.5	NO
6	6 13C4-PFOS	B7L0136-BS2 OPR 0.0075	2.46e3	78.6	NO
7	7 13C6-PFDA	B7L0136-BS2 OPR 0.0075	8.79e3	75.1	NO
8	8 13C7-PFUDa	B7L0136-BS2 OPR 0.0075	1.16e4	80.2	NO

Name: 180130M2_70, Date: 31-Jan-2018, Time: 00:44:49, ID: B7L0136-BS3 OPR 0.0075, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0136-BS3 OPR 0.0075	8.54e3	95.2	NO
2	2 13C5-PFHxA	B7L0136-BS3 OPR 0.0075	8.83e3	62.6	NO
3	3 13C3-PFHxS	B7L0136-BS3 OPR 0.0075	2.59e3	78.3	NO
4	4 13C8-PFOA	B7L0136-BS3 OPR 0.0075	1.11e4	84.1	NO
5	5 13C9-PFNA	B7L0136-BS3 OPR 0.0075	1.15e4	78.6	NO
6	6 13C4-PFOS	B7L0136-BS3 OPR 0.0075	2.20e3	70.2	NO
7	7 13C6-PFDA	B7L0136-BS3 OPR 0.0075	8.25e3	70.5	NO
8	8 13C7-PFUDa	B7L0136-BS3 OPR 0.0075	1.14e4	79.4	NO

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Name: 180130M2_71, Date: 31-Jan-2018, Time: 00:56:18, ID: B7L0136-BS4 OPR 0.0075, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0136-BS4 OPR 0.0075	8.62e3	96.1	NO
2	2 13C5-PFHxA	B7L0136-BS4 OPR 0.0075	1.06e4	74.9	NO
3	3 13C3-PFHxS	B7L0136-BS4 OPR 0.0075	2.43e3	73.5	NO
4	4 13C8-PFOA	B7L0136-BS4 OPR 0.0075	8.33e3	63.2	NO
5	5 13C9-PFNA	B7L0136-BS4 OPR 0.0075	9.73e3	66.7	NO
6	6 13C4-PFOS	B7L0136-BS4 OPR 0.0075	2.47e3	79.0	NO
7	7 13C6-PFDA	B7L0136-BS4 OPR 0.0075	1.05e4	89.8	NO
8	8 13C7-PFUDa	B7L0136-BS4 OPR 0.0075	1.24e4	86.2	NO

Name: 180130M2_72, Date: 31-Jan-2018, Time: 01:07:47, ID: B7L0140-BS1 OPR 0.0075, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0140-BS1 OPR 0.0075	8.11e3	90.4	NO
2	2 13C5-PFHxA	B7L0140-BS1 OPR 0.0075	1.01e4	71.9	NO
3	3 13C3-PFHxS	B7L0140-BS1 OPR 0.0075	2.67e3	80.6	NO
4	4 13C8-PFOA	B7L0140-BS1 OPR 0.0075	8.48e3	64.3	NO
5	5 13C9-PFNA	B7L0140-BS1 OPR 0.0075	1.06e4	72.4	NO
6	6 13C4-PFOS	B7L0140-BS1 OPR 0.0075	2.55e3	81.5	NO
7	7 13C6-PFDA	B7L0140-BS1 OPR 0.0075	7.21e3	61.6	NO
8	8 13C7-PFUDa	B7L0140-BS1 OPR 0.0075	1.09e4	75.9	NO

Name: 180130M2_73, Date: 31-Jan-2018, Time: 01:19:13, ID: B7L0140-BSD1 LCSD 0.0075, Description: LCSD

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0140-BSD1 LCSD 0.0075	8.14e3	90.8	NO
2	2 13C5-PFHxA	B7L0140-BSD1 LCSD 0.0075	1.02e4	72.4	NO
3	3 13C3-PFHxS	B7L0140-BSD1 LCSD 0.0075	2.54e3	76.9	NO
4	4 13C8-PFOA	B7L0140-BSD1 LCSD 0.0075	9.70e3	73.6	NO
5	5 13C9-PFNA	B7L0140-BSD1 LCSD 0.0075	1.10e4	75.2	NO
6	6 13C4-PFOS	B7L0140-BSD1 LCSD 0.0075	2.68e3	85.8	NO
7	7 13C6-PFDA	B7L0140-BSD1 LCSD 0.0075	9.74e3	83.2	NO
8	8 13C7-PFUDa	B7L0140-BSD1 LCSD 0.0075	1.04e4	72.1	NO

Name: 180130M2_74, Date: 31-Jan-2018, Time: 01:30:42, ID: B7L0140-BLK1 Method Blank 0.0075, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B7L0140-BLK1 Method Blank 0.0075	7.68e3	85.7	NO
2	2 13C5-PFHxA	B7L0140-BLK1 Method Blank 0.0075	9.10e3	64.5	NO
3	3 13C3-PFHxS	B7L0140-BLK1 Method Blank 0.0075	2.67e3	80.9	NO
4	4 13C8-PFOA	B7L0140-BLK1 Method Blank 0.0075	8.42e3	63.9	NO
5	5 13C9-PFNA	B7L0140-BLK1 Method Blank 0.0075	9.17e3	62.8	NO
6	6 13C4-PFOS	B7L0140-BLK1 Method Blank 0.0075	2.40e3	76.9	NO
7	7 13C6-PFDA	B7L0140-BLK1 Method Blank 0.0075	1.01e4	86.7	NO
8	8 13C7-PFUDa	B7L0140-BLK1 Method Blank 0.0075	1.08e4	75.1	NO

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Name: 180130M2_75, Date: 31-Jan-2018, Time: 01:42:11, ID: 1701882-02RE1 WI-A06-6-I-01-1217-TOP 0.0075,
Description: WI-A06-6-I-01-1217-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-02RE1 WI-A06-6-I-01-1217-T...	7.80e3	87.0	NO
2	2	13C5-PFHxA	1701882-02RE1 WI-A06-6-I-01-1217-T...	9.18e3	65.1	NO
3	3	13C3-PFHxS	1701882-02RE1 WI-A06-6-I-01-1217-T...	2.44e3	73.7	NO
4	4	13C8-PFOA	1701882-02RE1 WI-A06-6-I-01-1217-T...	1.01e4	76.4	NO
5	5	13C9-PFNA	1701882-02RE1 WI-A06-6-I-01-1217-T...	1.07e4	73.5	NO
6	6	13C4-PFOS	1701882-02RE1 WI-A06-6-I-01-1217-T...	2.54e3	81.3	NO
7	7	13C6-PFDA	1701882-02RE1 WI-A06-6-I-01-1217-T...	8.41e3	71.9	NO
8	8	13C7-PFUDa	1701882-02RE1 WI-A06-6-I-01-1217-T...	1.12e4	77.4	NO

Name: 180130M2_76, Date: 31-Jan-2018, Time: 01:53:42, ID: 1701882-04RE1 WI-A06-EB01-120517-TOP 0.0075,
Description: WI-A06-EB01-120517-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-04RE1 WI-A06-EB01-120517-...	8.76e3	97.7	NO
2	2	13C5-PFHxA	1701882-04RE1 WI-A06-EB01-120517-...	1.02e4	72.1	NO
3	3	13C3-PFHxS	1701882-04RE1 WI-A06-EB01-120517-...	2.99e3	90.4	NO
4	4	13C8-PFOA	1701882-04RE1 WI-A06-EB01-120517-...	1.12e4	84.6	NO
5	5	13C9-PFNA	1701882-04RE1 WI-A06-EB01-120517-...	9.99e3	68.5	NO
6	6	13C4-PFOS	1701882-04RE1 WI-A06-EB01-120517-...	2.80e3	89.6	NO
7	7	13C6-PFDA	1701882-04RE1 WI-A06-EB01-120517-...	9.12e3	77.9	NO
8	8	13C7-PFUDa	1701882-04RE1 WI-A06-EB01-120517-...	1.55e4	107.3	NO

Name: 180130M2_77, Date: 31-Jan-2018, Time: 02:05:12, ID: 1701882-06RE1 WI-A06-EB02-120517-TOP 0.0075,
Description: WI-A06-EB02-120517-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-06RE1 WI-A06-EB02-120517-...	8.22e3	91.7	NO
2	2	13C5-PFHxA	1701882-06RE1 WI-A06-EB02-120517-...	1.09e4	77.3	NO
3	3	13C3-PFHxS	1701882-06RE1 WI-A06-EB02-120517-...	2.75e3	83.3	NO
4	4	13C8-PFOA	1701882-06RE1 WI-A06-EB02-120517-...	1.01e4	76.5	NO
5	5	13C9-PFNA	1701882-06RE1 WI-A06-EB02-120517-...	1.13e4	77.7	NO
6	6	13C4-PFOS	1701882-06RE1 WI-A06-EB02-120517-...	2.60e3	83.3	NO
7	7	13C6-PFDA	1701882-06RE1 WI-A06-EB02-120517-...	1.10e4	94.0	NO
8	8	13C7-PFUDa	1701882-06RE1 WI-A06-EB02-120517-...	1.17e4	80.9	NO

Name: 180130M2_78, Date: 31-Jan-2018, Time: 02:16:41, ID: 1701882-08RE1 WI-A06-EFF01-1217-TOP 0.0075,
Description: WI-A06-EFF01-1217-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-08RE1 WI-A06-EFF01-1217-T...	7.98e3	89.1	NO
2	2	13C5-PFHxA	1701882-08RE1 WI-A06-EFF01-1217-T...	1.01e4	71.5	NO
3	3	13C3-PFHxS	1701882-08RE1 WI-A06-EFF01-1217-T...	2.53e3	76.4	NO
4	4	13C8-PFOA	1701882-08RE1 WI-A06-EFF01-1217-T...	8.67e3	65.8	NO
5	5	13C9-PFNA	1701882-08RE1 WI-A06-EFF01-1217-T...	9.31e3	63.8	NO
6	6	13C4-PFOS	1701882-08RE1 WI-A06-EFF01-1217-T...	2.15e3	68.8	NO
7	7	13C6-PFDA	1701882-08RE1 WI-A06-EFF01-1217-T...	9.30e3	79.5	NO
8	8	13C7-PFUDa	1701882-08RE1 WI-A06-EFF01-1217-T...	1.06e4	73.6	NO

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Name: 180130M2_79, Date: 31-Jan-2018, Time: 02:28:08, ID: 1701882-10RE1 WI-A06-EFF01P-1217-TOP 0.0075, Description: WI-A06-EFF01P-1217-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-10RE1 WI-A06-EFF01P-1217...	8.48e3	94.5	NO
2	2	13C5-PFHxA	1701882-10RE1 WI-A06-EFF01P-1217...	1.17e4	83.2	NO
3	3	13C3-PFHxS	1701882-10RE1 WI-A06-EFF01P-1217...	2.57e3	77.7	NO
4	4	13C8-PFOA	1701882-10RE1 WI-A06-EFF01P-1217...	8.82e3	66.9	NO
5	5	13C9-PFNA	1701882-10RE1 WI-A06-EFF01P-1217...	1.05e4	71.8	NO
6	6	13C4-PFOS	1701882-10RE1 WI-A06-EFF01P-1217...	2.36e3	75.6	NO
7	7	13C6-PFDA	1701882-10RE1 WI-A06-EFF01P-1217...	9.65e3	82.5	NO
8	8	13C7-PFUDa	1701882-10RE1 WI-A06-EFF01P-1217...	1.13e4	78.1	NO

Name: 180130M2_80, Date: 31-Jan-2018, Time: 02:39:37, ID: 1701882-12RE1 WI-A06-INF01-1217-TOP 0.0075, Description: WI-A06-INF01-1217-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-12RE1 WI-A06-INF01-1217-T...	8.74e3	97.5	NO
2	2	13C5-PFHxA	1701882-12RE1 WI-A06-INF01-1217-T...	1.06e4	75.2	NO
3	3	13C3-PFHxS	1701882-12RE1 WI-A06-INF01-1217-T...	2.68e3	81.0	NO
4	4	13C8-PFOA	1701882-12RE1 WI-A06-INF01-1217-T...	1.12e4	84.9	NO
5	5	13C9-PFNA	1701882-12RE1 WI-A06-INF01-1217-T...	1.11e4	76.0	NO
6	6	13C4-PFOS	1701882-12RE1 WI-A06-INF01-1217-T...	2.80e3	89.4	NO
7	7	13C6-PFDA	1701882-12RE1 WI-A06-INF01-1217-T...	1.11e4	95.0	NO
8	8	13C7-PFUDa	1701882-12RE1 WI-A06-INF01-1217-T...	1.22e4	85.0	NO

Name: 180130M2_81, Date: 31-Jan-2018, Time: 02:51:06, ID: 1701882-14RE1 WI-A06-P-4-1217-TOP 0.0075, Description: WI-A06-P-4-1217-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-14RE1 WI-A06-P-4-1217-TOP...	8.79e3	98.1	NO
2	2	13C5-PFHxA	1701882-14RE1 WI-A06-P-4-1217-TOP...	1.16e4	82.6	NO
3	3	13C3-PFHxS	1701882-14RE1 WI-A06-P-4-1217-TOP...	2.79e3	84.3	NO
4	4	13C8-PFOA	1701882-14RE1 WI-A06-P-4-1217-TOP...	1.17e4	88.4	NO
5	5	13C9-PFNA	1701882-14RE1 WI-A06-P-4-1217-TOP...	1.16e4	79.2	NO
6	6	13C4-PFOS	1701882-14RE1 WI-A06-P-4-1217-TOP...	2.54e3	81.1	NO
7	7	13C6-PFDA	1701882-14RE1 WI-A06-P-4-1217-TOP...	9.53e3	81.5	NO
8	8	13C7-PFUDa	1701882-14RE1 WI-A06-P-4-1217-TOP...	9.96e3	69.1	NO

Name: 180130M2_82, Date: 31-Jan-2018, Time: 03:02:33, ID: 1701882-16RE1 WI-A06-6-I-03-1217-TOP 0.0075, Description: WI-A06-6-I-03-1217-TOP

	#	Name	ID	Area	%Rec	Area Out
1	1	13C4-PFBA	1701882-16RE1 WI-A06-6-I-03-1217-T...	8.34e3	93.1	NO
2	2	13C5-PFHxA	1701882-16RE1 WI-A06-6-I-03-1217-T...	1.01e4	71.6	NO
3	3	13C3-PFHxS	1701882-16RE1 WI-A06-6-I-03-1217-T...	2.65e3	80.3	NO
4	4	13C8-PFOA	1701882-16RE1 WI-A06-6-I-03-1217-T...	9.29e3	70.4	NO
5	5	13C9-PFNA	1701882-16RE1 WI-A06-6-I-03-1217-T...	1.17e4	79.9	NO
6	6	13C4-PFOS	1701882-16RE1 WI-A06-6-I-03-1217-T...	2.76e3	88.2	NO
7	7	13C6-PFDA	1701882-16RE1 WI-A06-6-I-03-1217-T...	9.40e3	80.3	NO
8	8	13C7-PFUDa	1701882-16RE1 WI-A06-6-I-03-1217-T...	1.20e4	83.4	NO

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Name: 180130M2_83, Date: 31-Jan-2018, Time: 03:14:03, ID: IPA, Description: IPA

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

Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909

#	Name	ID	Area	%Rec	Area Out
1	13C4-PFBA	ST180130M2-13 PFC CS3 18A1909	1.05e4	117.0	NO
2	13C5-PFHxA	ST180130M2-13 PFC CS3 18A1909	1.85e4	130.8	NO
3	13C3-PFHxS	ST180130M2-13 PFC CS3 18A1909	4.41e3	133.5	NO
4	13C8-PFOA	ST180130M2-13 PFC CS3 18A1909	1.50e4	113.7	NO
5	13C9-PFNA	ST180130M2-13 PFC CS3 18A1909	1.73e4	118.2	NO
6	13C4-PFOS	ST180130M2-13 PFC CS3 18A1909	3.88e3	124.2	NO
7	13C6-PFDA	ST180130M2-13 PFC CS3 18A1909	1.42e4	121.5	NO
8	13C7-PFUdA	ST180130M2-13 PFC CS3 18A1909	2.00e4	138.7	NO

Name: 180130M2_85, Date: 31-Jan-2018, Time: 03:37:02, ID: IPA, Description: IPA

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

Name: 180130M2_86, Date: 31-Jan-2018, Time: 03:48:35, ID: B8A0165-BS1 OPR 0.25, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	13C4-PFBA	B8A0165-BS1 OPR 0.25	7.95e3	88.7	NO
2	13C5-PFHxA	B8A0165-BS1 OPR 0.25	9.15e3	64.9	NO
3	13C3-PFHxS	B8A0165-BS1 OPR 0.25	2.91e3	88.1	NO
4	13C8-PFOA	B8A0165-BS1 OPR 0.25	8.55e3	64.8	NO
5	13C9-PFNA	B8A0165-BS1 OPR 0.25	8.37e3	57.4	NO
6	13C4-PFOS	B8A0165-BS1 OPR 0.25	2.54e3	81.4	NO
7	13C6-PFDA	B8A0165-BS1 OPR 0.25	8.36e3	71.5	NO
8	13C7-PFUdA	B8A0165-BS1 OPR 0.25	1.27e4	88.1	NO

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Name: 180130M2_87, Date: 31-Jan-2018, Time: 03:59:59, ID: B8A0165-BSD1 LCSD 0.25, Description: LCSD

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0165-BSD1 LCSD 0.25	8.82e3	98.4	NO
2	2 13C5-PFHxA	B8A0165-BSD1 LCSD 0.25	1.04e4	73.7	NO
3	3 13C3-PFHxS	B8A0165-BSD1 LCSD 0.25	3.22e3	97.3	NO
4	4 13C8-PFOA	B8A0165-BSD1 LCSD 0.25	9.44e3	71.6	NO
5	5 13C9-PFNA	B8A0165-BSD1 LCSD 0.25	9.82e3	67.3	NO
6	6 13C4-PFOS	B8A0165-BSD1 LCSD 0.25	2.90e3	92.6	NO
7	7 13C6-PFDA	B8A0165-BSD1 LCSD 0.25	1.06e4	90.7	NO
8	8 13C7-PFUDa	B8A0165-BSD1 LCSD 0.25	1.15e4	79.6	NO

Name: 180130M2_88, Date: 31-Jan-2018, Time: 04:11:26, ID: B8A0165-BLK1 Method Blank 0.25, Description: Method Blank

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0165-BLK1 Method Blank 0.25	8.19e3	91.3	NO
2	2 13C5-PFHxA	B8A0165-BLK1 Method Blank 0.25	1.08e4	76.9	NO
3	3 13C3-PFHxS	B8A0165-BLK1 Method Blank 0.25	2.81e3	85.0	NO
4	4 13C8-PFOA	B8A0165-BLK1 Method Blank 0.25	7.78e3	59.0	NO
5	5 13C9-PFNA	B8A0165-BLK1 Method Blank 0.25	1.08e4	74.3	NO
6	6 13C4-PFOS	B8A0165-BLK1 Method Blank 0.25	2.84e3	90.9	NO
7	7 13C6-PFDA	B8A0165-BLK1 Method Blank 0.25	9.85e3	84.2	NO
8	8 13C7-PFUDa	B8A0165-BLK1 Method Blank 0.25	9.56e3	66.4	NO

Name: 180130M2_89, Date: 31-Jan-2018, Time: 04:22:53, ID: 1800186-01 REEPDW132 0.12041, Description: REEPDW132

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800186-01 REEPDW132 0.12041	7.45e3	83.1	NO
2	2 13C5-PFHxA	1800186-01 REEPDW132 0.12041	9.09e3	64.5	NO
3	3 13C3-PFHxS	1800186-01 REEPDW132 0.12041	3.02e3	91.5	NO
4	4 13C8-PFOA	1800186-01 REEPDW132 0.12041	8.69e3	65.9	NO
5	5 13C9-PFNA	1800186-01 REEPDW132 0.12041	8.43e3	57.7	NO
6	6 13C4-PFOS	1800186-01 REEPDW132 0.12041	2.54e3	81.2	NO
7	7 13C6-PFDA	1800186-01 REEPDW132 0.12041	6.88e3	58.8	NO
8	8 13C7-PFUDa	1800186-01 REEPDW132 0.12041	9.83e3	68.2	NO

Name: 180130M2_90, Date: 31-Jan-2018, Time: 04:34:22, ID: 1800186-02 REEPDW133 0.12113, Description: REEPDW133

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800186-02 REEPDW133 0.12113	6.64e3	74.1	NO
2	2 13C5-PFHxA	1800186-02 REEPDW133 0.12113	7.45e3	52.9	NO
3	3 13C3-PFHxS	1800186-02 REEPDW133 0.12113	2.53e3	76.5	NO
4	4 13C8-PFOA	1800186-02 REEPDW133 0.12113	6.27e3	47.6	YES
5	5 13C9-PFNA	1800186-02 REEPDW133 0.12113	5.76e3	39.5	YES
6	6 13C4-PFOS	1800186-02 REEPDW133 0.12113	2.74e3	87.6	NO
7	7 13C6-PFDA	1800186-02 REEPDW133 0.12113	7.10e3	60.7	NO
8	8 13C7-PFUDa	1800186-02 REEPDW133 0.12113	7.99e3	55.5	NO

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Name: 180130M2_91, Date: 31-Jan-2018, Time: 04:45:52, ID: 1800186-03 REEPDW134 0.12099, Description: REEPDW134

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800186-03 REEPDW134 0.12099	6.82e3	76.1	NO
2	2 13C5-PFHxA	1800186-03 REEPDW134 0.12099	8.44e3	59.8	NO
3	3 13C3-PFHxS	1800186-03 REEPDW134 0.12099	3.00e3	90.7	NO
4	4 13C8-PFOA	1800186-03 REEPDW134 0.12099	7.34e3	55.7	NO
5	5 13C9-PFNA	1800186-03 REEPDW134 0.12099	7.39e3	50.7	NO
6	6 13C4-PFOS	1800186-03 REEPDW134 0.12099	2.90e3	92.6	NO
7	7 13C6-PFDA	1800186-03 REEPDW134 0.12099	7.25e3	61.9	NO
8	8 13C7-PFUDa	1800186-03 REEPDW134 0.12099	9.10e3	63.1	NO

Name: 180130M2_92, Date: 31-Jan-2018, Time: 04:57:21, ID: 1800196-01 GW1519180119RAP 0.26117, Description: GW1519180119RAP

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800196-01 GW1519180119RAP 0.261...	8.61e3	96.1	NO
2	2 13C5-PFHxA	1800196-01 GW1519180119RAP 0.261...	1.02e4	72.5	NO
3	3 13C3-PFHxS	1800196-01 GW1519180119RAP 0.261...	2.66e3	80.5	NO
4	4 13C8-PFOA	1800196-01 GW1519180119RAP 0.261...	8.33e3	63.2	NO
5	5 13C9-PFNA	1800196-01 GW1519180119RAP 0.261...	8.75e3	60.0	NO
6	6 13C4-PFOS	1800196-01 GW1519180119RAP 0.261...	2.16e3	68.9	NO
7	7 13C6-PFDA	1800196-01 GW1519180119RAP 0.261...	7.96e3	68.1	NO
8	8 13C7-PFUDa	1800196-01 GW1519180119RAP 0.261...	1.31e4	91.2	NO

Name: 180130M2_93, Date: 31-Jan-2018, Time: 05:08:48, ID: 1800196-02 GW2529180119RAP 0.26519, Description: GW2529180119RAP

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800196-02 GW2529180119RAP 0.265...	9.17e3	102.3	NO
2	2 13C5-PFHxA	1800196-02 GW2529180119RAP 0.265...	1.13e4	80.5	NO
3	3 13C3-PFHxS	1800196-02 GW2529180119RAP 0.265...	2.78e3	84.1	NO
4	4 13C8-PFOA	1800196-02 GW2529180119RAP 0.265...	1.05e4	79.9	NO
5	5 13C9-PFNA	1800196-02 GW2529180119RAP 0.265...	9.30e3	63.8	NO
6	6 13C4-PFOS	1800196-02 GW2529180119RAP 0.265...	2.75e3	88.1	NO
7	7 13C6-PFDA	1800196-02 GW2529180119RAP 0.265...	9.59e3	81.9	NO
8	8 13C7-PFUDa	1800196-02 GW2529180119RAP 0.265...	1.12e4	77.4	NO

Name: 180130M2_94, Date: 31-Jan-2018, Time: 05:20:17, ID: 1800196-03 GW3539180119RAP 0.26249, Description: GW3539180119RAP

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800196-03 GW3539180119RAP 0.262...	9.42e3	105.1	NO
2	2 13C5-PFHxA	1800196-03 GW3539180119RAP 0.262...	1.06e4	75.3	NO
3	3 13C3-PFHxS	1800196-03 GW3539180119RAP 0.262...	3.14e3	94.9	NO
4	4 13C8-PFOA	1800196-03 GW3539180119RAP 0.262...	9.70e3	73.6	NO
5	5 13C9-PFNA	1800196-03 GW3539180119RAP 0.262...	1.01e4	69.6	NO
6	6 13C4-PFOS	1800196-03 GW3539180119RAP 0.262...	3.08e3	98.6	NO
7	7 13C6-PFDA	1800196-03 GW3539180119RAP 0.262...	8.59e3	73.4	NO
8	8 13C7-PFUDa	1800196-03 GW3539180119RAP 0.262...	1.14e4	78.8	NO

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Name: 180130M2_95, Date: 31-Jan-2018, Time: 05:31:47, ID: 1800207-01 SPLP Solution #1, Description:

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800207-01 SPLP Solution #1	9.14e3	101.9	NO
2	2 13C5-PFHxA	1800207-01 SPLP Solution #1	1.13e4	80.3	NO
3	3 13C3-PFHxS	1800207-01 SPLP Solution #1	3.11e3	94.2	NO
4	4 13C8-PFOA	1800207-01 SPLP Solution #1	9.56e3	72.5	NO
5	5 13C9-PFNA	1800207-01 SPLP Solution #1	1.02e4	70.2	NO
6	6 13C4-PFOS	1800207-01 SPLP Solution #1	2.88e3	92.1	NO
7	7 13C6-PFDA	1800207-01 SPLP Solution #1	8.68e3	74.2	NO
8	8 13C7-PFUDa	1800207-01 SPLP Solution #1	1.20e4	83.5	NO

Name: 180130M2_96, Date: 31-Jan-2018, Time: 05:43:14, ID: 1800207-02 SPLP Solution #2, Description:

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800207-02 SPLP Solution #2	9.77e3	108.9	NO
2	2 13C5-PFHxA	1800207-02 SPLP Solution #2	1.13e4	80.3	NO
3	3 13C3-PFHxS	1800207-02 SPLP Solution #2	3.18e3	96.2	NO
4	4 13C8-PFOA	1800207-02 SPLP Solution #2	1.04e4	78.7	NO
5	5 13C9-PFNA	1800207-02 SPLP Solution #2	1.00e4	68.7	NO
6	6 13C4-PFOS	1800207-02 SPLP Solution #2	2.93e3	93.7	NO
7	7 13C6-PFDA	1800207-02 SPLP Solution #2	1.06e4	90.5	NO
8	8 13C7-PFUDa	1800207-02 SPLP Solution #2	1.43e4	99.3	NO

Name: 180130M2_97, Date: 31-Jan-2018, Time: 05:54:41, ID: 1800207-03 TCLP Solution #1 0.12117, Description: TCLP Solution #1

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800207-03 TCLP Solution #1 0.12117	9.92e3	110.6	NO
2	2 13C5-PFHxA	1800207-03 TCLP Solution #1 0.12117	1.22e4	86.8	NO
3	3 13C3-PFHxS	1800207-03 TCLP Solution #1 0.12117	3.01e3	91.0	NO
4	4 13C8-PFOA	1800207-03 TCLP Solution #1 0.12117	1.01e4	76.9	NO
5	5 13C9-PFNA	1800207-03 TCLP Solution #1 0.12117	1.23e4	84.3	NO
6	6 13C4-PFOS	1800207-03 TCLP Solution #1 0.12117	2.66e3	85.1	NO
7	7 13C6-PFDA	1800207-03 TCLP Solution #1 0.12117	8.70e3	74.4	NO
8	8 13C7-PFUDa	1800207-03 TCLP Solution #1 0.12117	1.25e4	86.9	NO

Name: 180130M2_98, Date: 31-Jan-2018, Time: 06:06:08, ID: 1800207-04 TCLP Solution #2 0.12163, Description: TCLP Solution #2

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800207-04 TCLP Solution #2 0.12163	9.72e3	108.4	NO
2	2 13C5-PFHxA	1800207-04 TCLP Solution #2 0.12163	1.11e4	78.4	NO
3	3 13C3-PFHxS	1800207-04 TCLP Solution #2 0.12163	2.88e3	87.3	NO
4	4 13C8-PFOA	1800207-04 TCLP Solution #2 0.12163	1.10e4	83.4	NO
5	5 13C9-PFNA	1800207-04 TCLP Solution #2 0.12163	1.13e4	77.5	NO
6	6 13C4-PFOS	1800207-04 TCLP Solution #2 0.12163	2.93e3	93.8	NO
7	7 13C6-PFDA	1800207-04 TCLP Solution #2 0.12163	8.61e3	73.5	NO
8	8 13C7-PFUDa	1800207-04 TCLP Solution #2 0.12163	1.17e4	81.3	NO

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Name: 180130M2_99, Date: 31-Jan-2018, Time: 06:17:37, ID: IPA, Description: IPA

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

Name: 180130M2_100, Date: 31-Jan-2018, Time: 06:29:06, ID: ST180130M2-14 PFC CS3 18A1909, Description: PFC CS3 18A1909

#	Name	ID	Area	%Rec	Area Out
1	13C4-PFBA	ST180130M2-14 PFC CS3 18A1909	1.14e4	127.3	NO
2	13C5-PFHxA	ST180130M2-14 PFC CS3 18A1909	1.78e4	126.2	NO
3	13C3-PFHxS	ST180130M2-14 PFC CS3 18A1909	3.93e3	118.9	NO
4	13C8-PFOA	ST180130M2-14 PFC CS3 18A1909	1.71e4	129.5	NO
5	13C9-PFNA	ST180130M2-14 PFC CS3 18A1909	1.75e4	119.8	NO
6	13C4-PFOS	ST180130M2-14 PFC CS3 18A1909	4.06e3	129.9	NO
7	13C6-PFDA	ST180130M2-14 PFC CS3 18A1909	1.58e4	134.6	NO
8	13C7-PFUdA	ST180130M2-14 PFC CS3 18A1909	1.66e4	115.3	NO

Name: 180130M2_101, Date: 31-Jan-2018, Time: 06:40:36, ID: IPA, Description: IPA

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

Name: 180130M2_102, Date: 31-Jan-2018, Time: 06:52:05, ID: B8A0119-BS1 OPR 1, Description: OPR

#	Name	ID	Area	%Rec	Area Out
1	13C4-PFBA	B8A0119-BS1 OPR 1	1.06e4	118.6	NO
2	13C5-PFHxA	B8A0119-BS1 OPR 1	1.25e4	88.4	NO
3	13C3-PFHxS	B8A0119-BS1 OPR 1	2.95e3	89.2	NO
4	13C8-PFOA	B8A0119-BS1 OPR 1	1.06e4	80.3	NO
5	13C9-PFNA	B8A0119-BS1 OPR 1	8.92e3	61.1	NO
6	13C4-PFOS	B8A0119-BS1 OPR 1	1.50e3	48.0	YES
7	13C6-PFDA	B8A0119-BS1 OPR 1	4.26e3	36.4	YES
8	13C7-PFUdA	B8A0119-BS1 OPR 1	2.55e3	17.7	YES

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Name: 180130M2_103, Date: 31-Jan-2018, Time: 07:03:32, ID: B8A0119-BLK1 Method Blank 1, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0119-BLK1 Method Blank 1	1.09e4	121.3	NO
2	2 13C5-PFHxA	B8A0119-BLK1 Method Blank 1	1.20e4	84.8	NO
3	3 13C3-PFHxS	B8A0119-BLK1 Method Blank 1	2.85e3	86.2	NO
4	4 13C8-PFOA	B8A0119-BLK1 Method Blank 1	8.87e3	67.3	NO
5	5 13C9-PFNA	B8A0119-BLK1 Method Blank 1	7.34e3	50.3	NO
6	6 13C4-PFOS	B8A0119-BLK1 Method Blank 1	1.65e3	52.8	NO
7	7 13C6-PFDA	B8A0119-BLK1 Method Blank 1	5.44e3	46.5	YES
8	8 13C7-PFUDa	B8A0119-BLK1 Method Blank 1	3.60e3	25.0	YES

Name: 180130M2_104, Date: 31-Jan-2018, Time: 07:14:59, ID: B8A0119-MS1 Matrix Spike 1.23, Description: Matrix Spike

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0119-MS1 Matrix Spike 1.23	1.07e4	119.2	NO
2	2 13C5-PFHxA	B8A0119-MS1 Matrix Spike 1.23	1.34e4	94.7	NO
3	3 13C3-PFHxS	B8A0119-MS1 Matrix Spike 1.23	2.51e3	76.0	NO
4	4 13C8-PFOA	B8A0119-MS1 Matrix Spike 1.23	9.61e3	72.9	NO
5	5 13C9-PFNA	B8A0119-MS1 Matrix Spike 1.23	9.66e3	66.2	NO
6	6 13C4-PFOS	B8A0119-MS1 Matrix Spike 1.23	1.79e3	57.3	NO
7	7 13C6-PFDA	B8A0119-MS1 Matrix Spike 1.23	7.18e3	61.4	NO
8	8 13C7-PFUDa	B8A0119-MS1 Matrix Spike 1.23	3.62e3	25.1	YES

Name: 180130M2_105, Date: 31-Jan-2018, Time: 07:26:25, ID: B8A0119-MSD1 Matrix Spike Dup 1.13, Description: Matrix Spike Dup

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0119-MSD1 Matrix Spike Dup 1.13	1.01e4	113.1	NO
2	2 13C5-PFHxA	B8A0119-MSD1 Matrix Spike Dup 1.13	1.20e4	85.1	NO
3	3 13C3-PFHxS	B8A0119-MSD1 Matrix Spike Dup 1.13	2.92e3	88.5	NO
4	4 13C8-PFOA	B8A0119-MSD1 Matrix Spike Dup 1.13	1.17e4	88.6	NO
5	5 13C9-PFNA	B8A0119-MSD1 Matrix Spike Dup 1.13	9.43e3	64.6	NO
6	6 13C4-PFOS	B8A0119-MSD1 Matrix Spike Dup 1.13	1.90e3	60.8	NO
7	7 13C6-PFDA	B8A0119-MSD1 Matrix Spike Dup 1.13	5.99e3	51.2	NO
8	8 13C7-PFUDa	B8A0119-MSD1 Matrix Spike Dup 1.13	3.14e3	21.8	YES

Name: 180130M2_106, Date: 31-Jan-2018, Time: 07:37:52, ID: 1800098-01 MINNE-09-SB01-010818-00-02 1.16, Description: MINNE-09-SB01-010818-00-02

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-01 MINNE-09-SB01-010818-0...	9.33e3	104.0	NO
2	2 13C5-PFHxA	1800098-01 MINNE-09-SB01-010818-0...	1.15e4	81.6	NO
3	3 13C3-PFHxS	1800098-01 MINNE-09-SB01-010818-0...	2.84e3	86.1	NO
4	4 13C8-PFOA	1800098-01 MINNE-09-SB01-010818-0...	1.11e4	83.8	NO
5	5 13C9-PFNA	1800098-01 MINNE-09-SB01-010818-0...	9.67e3	66.3	NO
6	6 13C4-PFOS	1800098-01 MINNE-09-SB01-010818-0...	2.44e3	78.1	NO
7	7 13C6-PFDA	1800098-01 MINNE-09-SB01-010818-0...	6.17e3	52.7	NO
8	8 13C7-PFUDa	1800098-01 MINNE-09-SB01-010818-0...	6.77e3	47.0	YES

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Name: 180130M2_107, Date: 31-Jan-2018, Time: 07:49:22, ID: 1800098-02 MINNE-09-SB01-010818-16-18 1.17, Description: MINNE-09-SB01-010818-16-18

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-02 MINNE-09-SB01-010818-1...	1.03e4	114.6	NO
2	2 13C5-PFHxA	1800098-02 MINNE-09-SB01-010818-1...	1.18e4	84.0	NO
3	3 13C3-PFHxS	1800098-02 MINNE-09-SB01-010818-1...	2.62e3	79.2	NO
4	4 13C8-PFOA	1800098-02 MINNE-09-SB01-010818-1...	1.01e4	76.6	NO
5	5 13C9-PFNA	1800098-02 MINNE-09-SB01-010818-1...	1.12e4	76.6	NO
6	6 13C4-PFOS	1800098-02 MINNE-09-SB01-010818-1...	1.57e3	50.1	NO
7	7 13C6-PFDA	1800098-02 MINNE-09-SB01-010818-1...	5.90e3	50.4	NO
8	8 13C7-PFUDa	1800098-02 MINNE-09-SB01-010818-1...	2.12e3	14.7	YES

Name: 180130M2_108, Date: 31-Jan-2018, Time: 08:00:51, ID: 1800098-03 MINNE-09-SB03-010818-01-02 1.21, Description: MINNE-09-SB03-010818-01-02

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-03 MINNE-09-SB03-010818-0...	1.02e4	113.9	NO
2	2 13C5-PFHxA	1800098-03 MINNE-09-SB03-010818-0...	1.13e4	80.3	NO
3	3 13C3-PFHxS	1800098-03 MINNE-09-SB03-010818-0...	2.71e3	81.9	NO
4	4 13C8-PFOA	1800098-03 MINNE-09-SB03-010818-0...	1.03e4	78.0	NO
5	5 13C9-PFNA	1800098-03 MINNE-09-SB03-010818-0...	1.15e4	79.1	NO
6	6 13C4-PFOS	1800098-03 MINNE-09-SB03-010818-0...	2.16e3	69.0	NO
7	7 13C6-PFDA	1800098-03 MINNE-09-SB03-010818-0...	7.11e3	60.8	NO
8	8 13C7-PFUDa	1800098-03 MINNE-09-SB03-010818-0...	2.89e3	20.1	YES

Name: 180130M2_109, Date: 31-Jan-2018, Time: 08:12:21, ID: 1800098-04 MINNE-09-SB03-010818-15-17 1.13, Description: MINNE-09-SB03-010818-15-17

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-04 MINNE-09-SB03-010818-1...	1.06e4	118.7	NO
2	2 13C5-PFHxA	1800098-04 MINNE-09-SB03-010818-1...	1.29e4	91.3	NO
3	3 13C3-PFHxS	1800098-04 MINNE-09-SB03-010818-1...	3.10e3	93.9	NO
4	4 13C8-PFOA	1800098-04 MINNE-09-SB03-010818-1...	1.13e4	85.8	NO
5	5 13C9-PFNA	1800098-04 MINNE-09-SB03-010818-1...	9.27e3	63.5	NO
6	6 13C4-PFOS	1800098-04 MINNE-09-SB03-010818-1...	1.98e3	63.2	NO
7	7 13C6-PFDA	1800098-04 MINNE-09-SB03-010818-1...	5.39e3	46.1	YES
8	8 13C7-PFUDa	1800098-04 MINNE-09-SB03-010818-1...	2.44e3	16.9	YES

Name: 180130M2_110, Date: 31-Jan-2018, Time: 08:23:50, ID: 1800098-05 MINNE-10-SB01-010818-00-02 1.3, Description: MINNE-10-SB01-010818-00-02

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-05 MINNE-10-SB01-010818-0...	9.89e3	110.3	NO
2	2 13C5-PFHxA	1800098-05 MINNE-10-SB01-010818-0...	1.20e4	85.2	NO
3	3 13C3-PFHxS	1800098-05 MINNE-10-SB01-010818-0...	2.99e3	90.6	NO
4	4 13C8-PFOA	1800098-05 MINNE-10-SB01-010818-0...	1.04e4	79.0	NO
5	5 13C9-PFNA	1800098-05 MINNE-10-SB01-010818-0...	1.12e4	76.6	NO
6	6 13C4-PFOS	1800098-05 MINNE-10-SB01-010818-0...	2.16e3	69.1	NO
7	7 13C6-PFDA	1800098-05 MINNE-10-SB01-010818-0...	5.69e3	48.6	YES
8	8 13C7-PFUDa	1800098-05 MINNE-10-SB01-010818-0...	2.99e3	20.8	YES

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Name: 180130M2_111, Date: 31-Jan-2018, Time: 08:35:17, ID: 1800098-06 MINNE-10-SB01-010818-09-11 1.13, Description: MINNE-10-SB01-010818-09-11

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-06 MINNE-10-SB01-010818-0...	1.07e4	119.0	NO
2	2 13C5-PFHxA	1800098-06 MINNE-10-SB01-010818-0...	1.39e4	98.3	NO
3	3 13C3-PFHxS	1800098-06 MINNE-10-SB01-010818-0...	2.98e3	90.0	NO
4	4 13C8-PFOA	1800098-06 MINNE-10-SB01-010818-0...	1.09e4	82.3	NO
5	5 13C9-PFNA	1800098-06 MINNE-10-SB01-010818-0...	8.90e3	61.0	NO
6	6 13C4-PFOS	1800098-06 MINNE-10-SB01-010818-0...	2.13e3	68.0	NO
7	7 13C6-PFDA	1800098-06 MINNE-10-SB01-010818-0...	5.20e3	44.4	YES
8	8 13C7-PFUDa	1800098-06 MINNE-10-SB01-010818-0...	2.66e3	18.4	YES

Name: 180130M2_112, Date: 31-Jan-2018, Time: 08:46:43, ID: 1800098-07 MINNE-10-SB03-010818-00-02 1.29, Description: MINNE-10-SB03-010818-00-02

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-07 MINNE-10-SB03-010818-0...	9.60e3	107.1	NO
2	2 13C5-PFHxA	1800098-07 MINNE-10-SB03-010818-0...	1.24e4	88.0	NO
3	3 13C3-PFHxS	1800098-07 MINNE-10-SB03-010818-0...	2.99e3	90.5	NO
4	4 13C8-PFOA	1800098-07 MINNE-10-SB03-010818-0...	1.13e4	85.4	NO
5	5 13C9-PFNA	1800098-07 MINNE-10-SB03-010818-0...	1.20e4	82.4	NO
6	6 13C4-PFOS	1800098-07 MINNE-10-SB03-010818-0...	1.97e3	62.9	NO
7	7 13C6-PFDA	1800098-07 MINNE-10-SB03-010818-0...	7.84e3	67.0	NO
8	8 13C7-PFUDa	1800098-07 MINNE-10-SB03-010818-0...	3.98e3	27.6	YES

Name: 180130M2_113, Date: 31-Jan-2018, Time: 08:58:11, ID: 1800098-08 MINNE-10-SB03-010818-15-16 1.22, Description: MINNE-10-SB03-010818-15-16

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-08 MINNE-10-SB03-010818-1...	1.03e4	114.3	NO
2	2 13C5-PFHxA	1800098-08 MINNE-10-SB03-010818-1...	1.21e4	86.1	NO
3	3 13C3-PFHxS	1800098-08 MINNE-10-SB03-010818-1...	2.91e3	88.0	NO
4	4 13C8-PFOA	1800098-08 MINNE-10-SB03-010818-1...	1.07e4	81.5	NO
5	5 13C9-PFNA	1800098-08 MINNE-10-SB03-010818-1...	1.09e4	74.6	NO
6	6 13C4-PFOS	1800098-08 MINNE-10-SB03-010818-1...	1.80e3	57.6	NO
7	7 13C6-PFDA	1800098-08 MINNE-10-SB03-010818-1...	6.05e3	51.7	NO
8	8 13C7-PFUDa	1800098-08 MINNE-10-SB03-010818-1...	3.14e3	21.8	YES

Name: 180130M2_114, Date: 31-Jan-2018, Time: 09:09:38, ID: 1800098-09 MINNE-10-SB04-010818-01-02 1.16, Description: MINNE-10-SB04-010818-01-02

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-09 MINNE-10-SB04-010818-0...	9.91e3	110.5	NO
2	2 13C5-PFHxA	1800098-09 MINNE-10-SB04-010818-0...	1.21e4	86.0	NO
3	3 13C3-PFHxS	1800098-09 MINNE-10-SB04-010818-0...	2.63e3	79.6	NO
4	4 13C8-PFOA	1800098-09 MINNE-10-SB04-010818-0...	1.12e4	85.2	NO
5	5 13C9-PFNA	1800098-09 MINNE-10-SB04-010818-0...	9.60e3	65.8	NO
6	6 13C4-PFOS	1800098-09 MINNE-10-SB04-010818-0...	1.57e3	50.3	NO
7	7 13C6-PFDA	1800098-09 MINNE-10-SB04-010818-0...	6.04e3	51.7	NO
8	8 13C7-PFUDa	1800098-09 MINNE-10-SB04-010818-0...	2.57e3	17.8	YES

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Name: 180130M2_115, Date: 31-Jan-2018, Time: 09:21:06, ID: 1800098-11 MINNE-SO-DUP01-010818 1.18, Description: MINNE-SO-DUP01-010818

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-11 MINNE-SO-DUP01-010818...	9.71e3	108.3	NO
2	2 13C5-PFHxA	1800098-11 MINNE-SO-DUP01-010818...	1.24e4	88.0	NO
3	3 13C3-PFHxS	1800098-11 MINNE-SO-DUP01-010818...	3.24e3	97.9	NO
4	4 13C8-PFOA	1800098-11 MINNE-SO-DUP01-010818...	1.13e4	85.6	NO
5	5 13C9-PFNA	1800098-11 MINNE-SO-DUP01-010818...	9.68e3	66.3	NO
6	6 13C4-PFOS	1800098-11 MINNE-SO-DUP01-010818...	2.31e3	74.0	NO
7	7 13C6-PFDA	1800098-11 MINNE-SO-DUP01-010818...	6.25e3	53.4	NO
8	8 13C7-PFUDa	1800098-11 MINNE-SO-DUP01-010818...	4.08e3	28.3	YES

Name: 180130M2_116, Date: 31-Jan-2018, Time: 09:32:33, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUDa	IPA	8.29e0	0.1	YES

Name: 180130M2_117, Date: 31-Jan-2018, Time: 09:44:03, ID: ST180130M2-15 PFC CS0 18A1906, Description: PFC CS0 18A1906

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-15 PFC CS0 18A1906	1.16e4	129.1	NO
2	2 13C5-PFHxA	ST180130M2-15 PFC CS0 18A1906	1.84e4	130.3	NO
3	3 13C3-PFHxS	ST180130M2-15 PFC CS0 18A1906	4.45e3	134.5	NO
4	4 13C8-PFOA	ST180130M2-15 PFC CS0 18A1906	1.66e4	126.2	NO
5	5 13C9-PFNA	ST180130M2-15 PFC CS0 18A1906	1.93e4	132.2	NO
6	6 13C4-PFOS	ST180130M2-15 PFC CS0 18A1906	4.67e3	149.2	NO
7	7 13C6-PFDA	ST180130M2-15 PFC CS0 18A1906	1.58e4	135.0	NO
8	8 13C7-PFUDa	ST180130M2-15 PFC CS0 18A1906	1.89e4	131.1	NO

Name: 180130M2_118, Date: 31-Jan-2018, Time: 09:55:31, ID: IPA, Description: IPA

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

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**Name: 180130M2_119, Date: 31-Jan-2018, Time: 10:07:01, ID: 1800098-12 MINNE-SO-DUP02-010818 1.13,
Description: MINNE-SO-DUP02-010818**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800098-12 MINNE-SO-DUP02-01081...	1.01e4	113.0	NO
2	2 13C5-PFHxA	1800098-12 MINNE-SO-DUP02-01081...	1.26e4	89.4	NO
3	3 13C3-PFHxS	1800098-12 MINNE-SO-DUP02-01081...	2.84e3	86.0	NO
4	4 13C8-PFOA	1800098-12 MINNE-SO-DUP02-01081...	9.80e3	74.3	NO
5	5 13C9-PFNA	1800098-12 MINNE-SO-DUP02-01081...	1.01e4	69.3	NO
6	6 13C4-PFOS	1800098-12 MINNE-SO-DUP02-01081...	1.60e3	51.3	NO
7	7 13C6-PFDA	1800098-12 MINNE-SO-DUP02-01081...	3.85e3	32.9	YES
8	8 13C7-PFUDa	1800098-12 MINNE-SO-DUP02-01081...	1.62e3	11.3	YES

**Name: 180130M2_120, Date: 31-Jan-2018, Time: 10:20:17, ID: 1800099-01 MINNE-08-SB03-010818-01-02 1.16,
Description: MINNE-08-SB03-010818-01-02**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800099-01 MINNE-08-SB03-010818-0...	1.09e4	121.8	NO
2	2 13C5-PFHxA	1800099-01 MINNE-08-SB03-010818-0...	1.26e4	89.5	NO
3	3 13C3-PFHxS	1800099-01 MINNE-08-SB03-010818-0...	2.89e3	87.3	NO
4	4 13C8-PFOA	1800099-01 MINNE-08-SB03-010818-0...	1.05e4	79.4	NO
5	5 13C9-PFNA	1800099-01 MINNE-08-SB03-010818-0...	1.02e4	70.1	NO
6	6 13C4-PFOS	1800099-01 MINNE-08-SB03-010818-0...	1.26e3	40.3	YES
7	7 13C6-PFDA	1800099-01 MINNE-08-SB03-010818-0...	4.84e3	41.3	YES
8	8 13C7-PFUDa	1800099-01 MINNE-08-SB03-010818-0...	1.51e3	10.4	YES

**Name: 180130M2_121, Date: 31-Jan-2018, Time: 10:31:40, ID: 1800099-02 MINNE-08-SB03-010818-15-17 1.17,
Description: MINNE-08-SB03-010818-15-17**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800099-02 MINNE-08-SB03-010818-1...	1.05e4	116.6	NO
2	2 13C5-PFHxA	1800099-02 MINNE-08-SB03-010818-1...	1.28e4	90.4	NO
3	3 13C3-PFHxS	1800099-02 MINNE-08-SB03-010818-1...	2.87e3	86.8	NO
4	4 13C8-PFOA	1800099-02 MINNE-08-SB03-010818-1...	1.09e4	82.7	NO
5	5 13C9-PFNA	1800099-02 MINNE-08-SB03-010818-1...	1.08e4	74.0	NO
6	6 13C4-PFOS	1800099-02 MINNE-08-SB03-010818-1...	2.07e3	66.1	NO
7	7 13C6-PFDA	1800099-02 MINNE-08-SB03-010818-1...	7.60e3	64.9	NO
8	8 13C7-PFUDa	1800099-02 MINNE-08-SB03-010818-1...	4.06e3	28.1	YES

**Name: 180130M2_122, Date: 31-Jan-2018, Time: 10:43:07, ID: 1800099-03 MINNE-10-SB02-010918-00-02 1.11,
Description: MINNE-10-SB02-010918-00-02**

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800099-03 MINNE-10-SB02-010918-0...	9.48e3	105.8	NO
2	2 13C5-PFHxA	1800099-03 MINNE-10-SB02-010918-0...	1.28e4	90.6	NO
3	3 13C3-PFHxS	1800099-03 MINNE-10-SB02-010918-0...	2.78e3	84.0	NO
4	4 13C8-PFOA	1800099-03 MINNE-10-SB02-010918-0...	1.09e4	82.7	NO
5	5 13C9-PFNA	1800099-03 MINNE-10-SB02-010918-0...	9.62e3	65.9	NO
6	6 13C4-PFOS	1800099-03 MINNE-10-SB02-010918-0...	2.06e3	65.8	NO
7	7 13C6-PFDA	1800099-03 MINNE-10-SB02-010918-0...	7.23e3	61.8	NO
8	8 13C7-PFUDa	1800099-03 MINNE-10-SB02-010918-0...	4.83e3	33.5	YES

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Name: 180130M2_123, Date: 31-Jan-2018, Time: 10:54:34, ID: 1800099-04 MINNE-10-SB02-010918-15-17 1.15, Description: MINNE-10-SB02-010918-15-17

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800099-04 MINNE-10-SB02-010918-1...	1.05e4	117.7	NO
2	2 13C5-PFHxA	1800099-04 MINNE-10-SB02-010918-1...	1.15e4	81.6	NO
3	3 13C3-PFHxS	1800099-04 MINNE-10-SB02-010918-1...	2.84e3	85.8	NO
4	4 13C8-PFOA	1800099-04 MINNE-10-SB02-010918-1...	1.12e4	85.3	NO
5	5 13C9-PFNA	1800099-04 MINNE-10-SB02-010918-1...	9.46e3	64.8	NO
6	6 13C4-PFOS	1800099-04 MINNE-10-SB02-010918-1...	2.37e3	75.9	NO
7	7 13C6-PFDA	1800099-04 MINNE-10-SB02-010918-1...	9.66e3	82.6	NO
8	8 13C7-PFUdA	1800099-04 MINNE-10-SB02-010918-1...	9.91e3	68.7	NO

Name: 180130M2_124, Date: 31-Jan-2018, Time: 11:06:01, ID: 1800099-05 MINNE-10-SB04-010818-16-18 1.18, Description: MINNE-10-SB04-010818-16-18

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800099-05 MINNE-10-SB04-010818-1...	1.02e4	114.2	NO
2	2 13C5-PFHxA	1800099-05 MINNE-10-SB04-010818-1...	1.24e4	87.9	NO
3	3 13C3-PFHxS	1800099-05 MINNE-10-SB04-010818-1...	2.95e3	89.3	NO
4	4 13C8-PFOA	1800099-05 MINNE-10-SB04-010818-1...	1.08e4	81.7	NO
5	5 13C9-PFNA	1800099-05 MINNE-10-SB04-010818-1...	9.99e3	68.5	NO
6	6 13C4-PFOS	1800099-05 MINNE-10-SB04-010818-1...	2.25e3	71.9	NO
7	7 13C6-PFDA	1800099-05 MINNE-10-SB04-010818-1...	7.26e3	62.1	NO
8	8 13C7-PFUdA	1800099-05 MINNE-10-SB04-010818-1...	3.27e3	22.7	YES

Name: 180130M2_125, Date: 31-Jan-2018, Time: 11:17:30, ID: IPA, Description: IPA

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA	5.80e0	0.0	YES
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA	5.50e0	0.0	YES
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUdA	IPA			NO

Name: 180130M2_126, Date: 31-Jan-2018, Time: 11:28:58, ID: B8A0148-BS1 OPR 1, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0148-BS1 OPR 1	1.12e4	125.4	NO
2	2 13C5-PFHxA	B8A0148-BS1 OPR 1	1.17e4	83.2	NO
3	3 13C3-PFHxS	B8A0148-BS1 OPR 1	2.89e3	87.3	NO
4	4 13C8-PFOA	B8A0148-BS1 OPR 1	1.11e4	83.8	NO
5	5 13C9-PFNA	B8A0148-BS1 OPR 1	1.26e4	86.2	NO
6	6 13C4-PFOS	B8A0148-BS1 OPR 1	2.13e3	68.0	NO
7	7 13C6-PFDA	B8A0148-BS1 OPR 1	5.41e3	46.3	YES
8	8 13C7-PFUdA	B8A0148-BS1 OPR 1	2.96e3	20.5	YES

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-IIS.qld

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Name: 180130M2_127, Date: 31-Jan-2018, Time: 11:40:29, ID: B8A0148-BLK1 Method Blank 1, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8A0148-BLK1 Method Blank 1	1.16e4	129.6	NO
2	2 13C5-PFHxA	B8A0148-BLK1 Method Blank 1	1.47e4	104.0	NO
3	3 13C3-PFHxS	B8A0148-BLK1 Method Blank 1	3.25e3	98.4	NO
4	4 13C8-PFOA	B8A0148-BLK1 Method Blank 1	1.26e4	95.6	NO
5	5 13C9-PFNA	B8A0148-BLK1 Method Blank 1	1.23e4	84.4	NO
6	6 13C4-PFOS	B8A0148-BLK1 Method Blank 1	2.41e3	77.0	NO
7	7 13C6-PFDA	B8A0148-BLK1 Method Blank 1	6.84e3	58.4	NO
8	8 13C7-PFUDa	B8A0148-BLK1 Method Blank 1	4.19e3	29.1	YES

Name: 180130M2_128, Date: 31-Jan-2018, Time: 11:51:57, ID: 1800193-01 CANGPFOS20180122 1.11, Description: CANGPFOS20180122

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1800193-01 CANGPFOS20180122 1.11	1.09e4	122.1	NO
2	2 13C5-PFHxA	1800193-01 CANGPFOS20180122 1.11	1.33e4	94.6	NO
3	3 13C3-PFHxS	1800193-01 CANGPFOS20180122 1.11	3.10e3	93.7	NO
4	4 13C8-PFOA	1800193-01 CANGPFOS20180122 1.11	1.06e4	80.0	NO
5	5 13C9-PFNA	1800193-01 CANGPFOS20180122 1.11	1.26e4	86.3	NO
6	6 13C4-PFOS	1800193-01 CANGPFOS20180122 1.11	1.99e3	63.6	NO
7	7 13C6-PFDA	1800193-01 CANGPFOS20180122 1.11	7.76e3	66.3	NO
8	8 13C7-PFUDa	1800193-01 CANGPFOS20180122 1.11	4.21e3	29.2	YES

Name: 180130M2_129, Date: 31-Jan-2018, Time: 12:03:26, ID: IPA, Description: IPA

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

Name: 180130M2_130, Date: 31-Jan-2018, Time: 12:14:57, ID: ST180130M2-16 PFC CS3 18A1909, Description: PFC CS3 18A1909

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST180130M2-16 PFC CS3 18A1909	1.28e4	142.6	NO
2	2 13C5-PFHxA	ST180130M2-16 PFC CS3 18A1909	1.71e4	121.1	NO
3	3 13C3-PFHxS	ST180130M2-16 PFC CS3 18A1909	3.69e3	111.8	NO
4	4 13C8-PFOA	ST180130M2-16 PFC CS3 18A1909	1.47e4	111.4	NO
5	5 13C9-PFNA	ST180130M2-16 PFC CS3 18A1909	1.36e4	93.2	NO
6	6 13C4-PFOS	ST180130M2-16 PFC CS3 18A1909	3.68e3	117.5	NO
7	7 13C6-PFDA	ST180130M2-16 PFC CS3 18A1909	1.47e4	125.4	NO
8	8 13C7-PFUDa	ST180130M2-16 PFC CS3 18A1909	1.59e4	110.4	NO

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-IIS.qld

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Name: 180130M2_131, Date: 31-Jan-2018, Time: 12:26:23, ID: IPA, Description: IPA

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

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-12.qld

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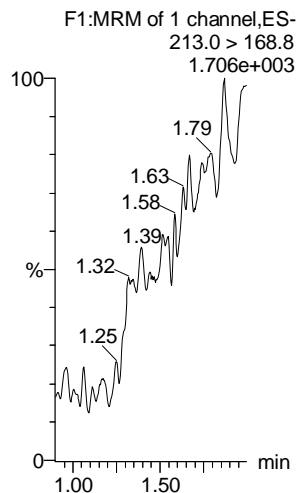
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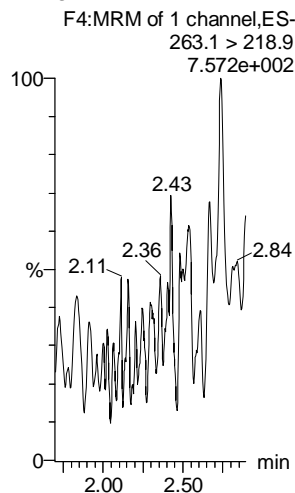
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Name: 180130M2_12, Date: 30-Jan-2018, Time: 13:39:34, ID: IPA, Description: IPA

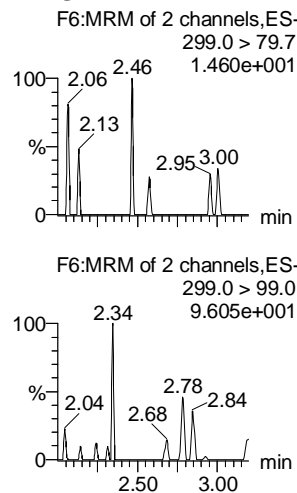
PFBA



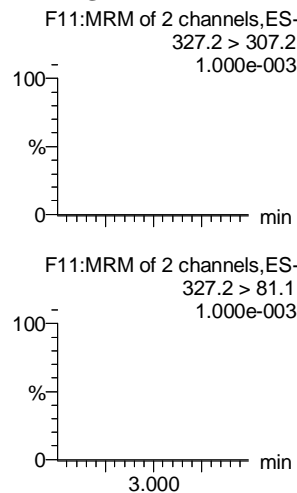
PFPeA



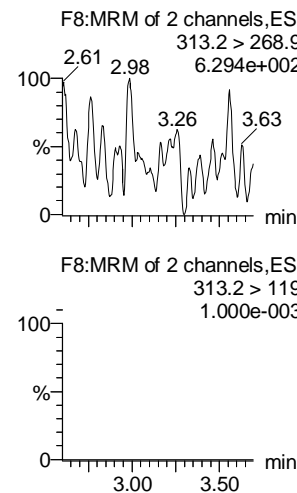
PFBS



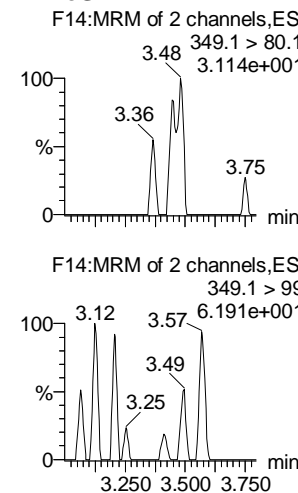
4:2 FTS



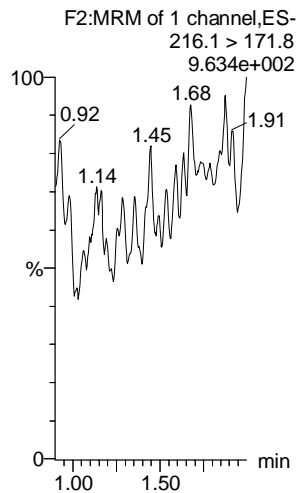
PFHxA



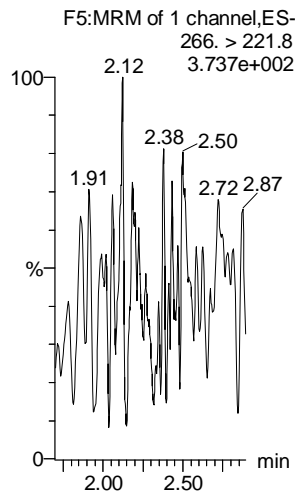
PFPeS



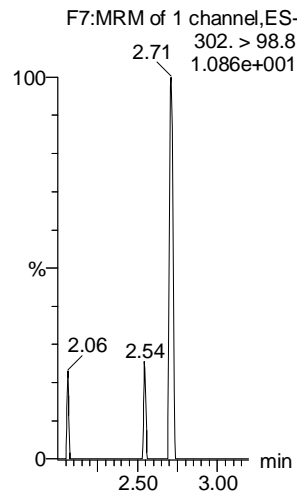
13C3-PFBA



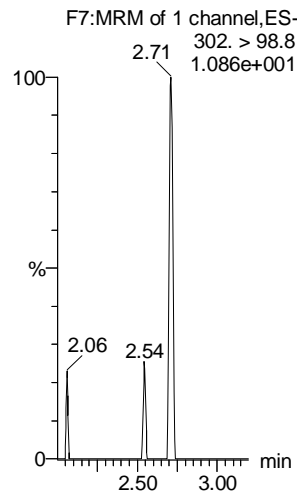
13C3-PFPeA



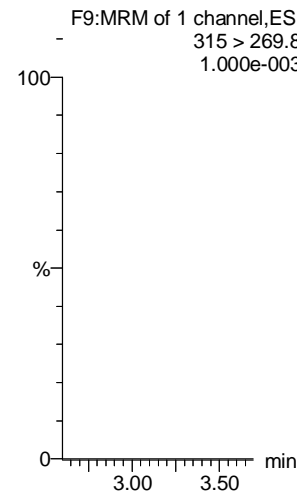
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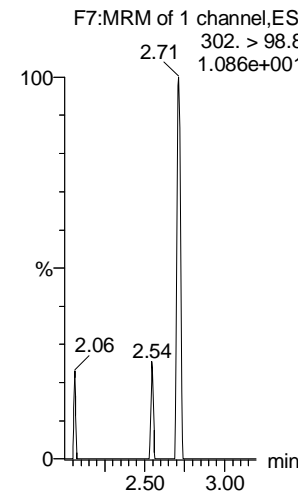
13C3-PFBS



13C2-PFHxA



13C3-PFBS



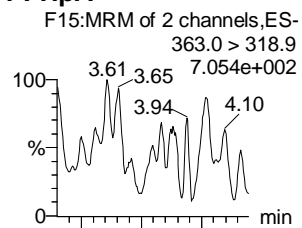
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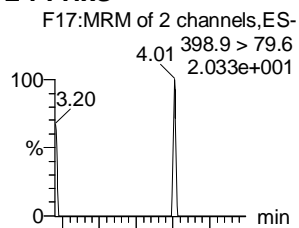
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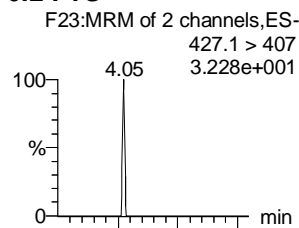
PFHpA



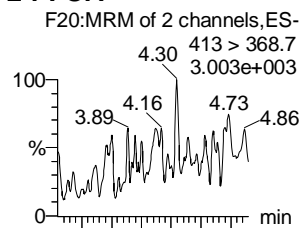
L-PFHxS



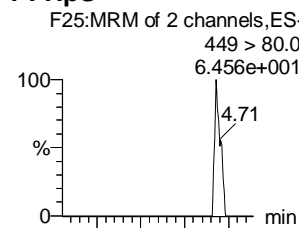
6:2 FTS



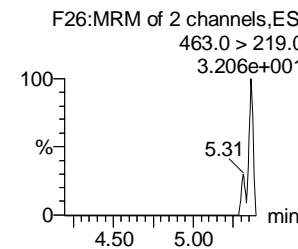
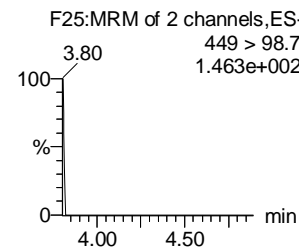
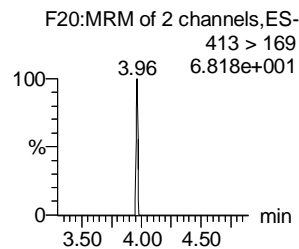
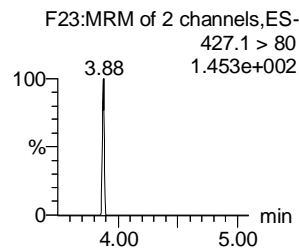
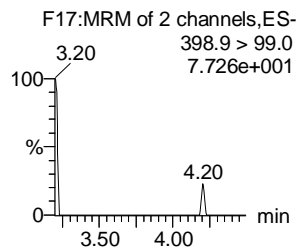
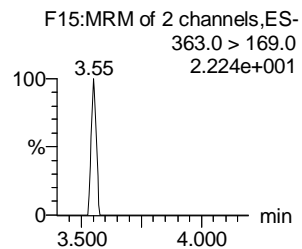
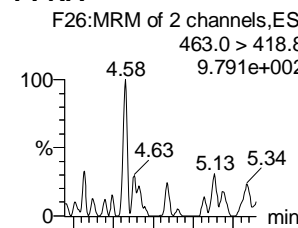
L-PFOA



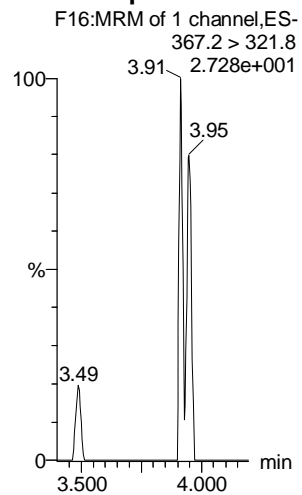
PFHpS



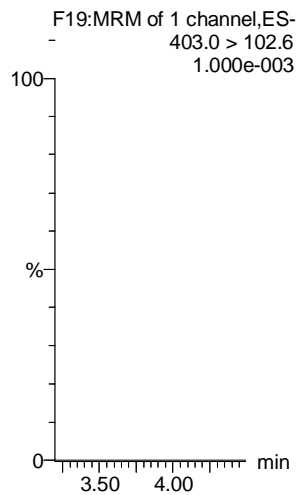
PFNA



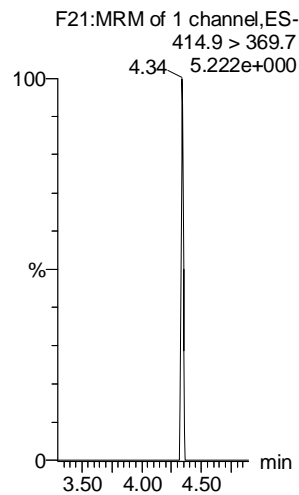
13C4-PFHpA



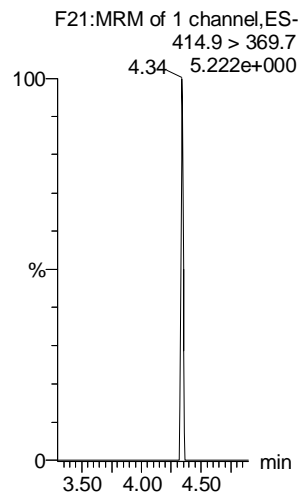
18O2-PFHxS



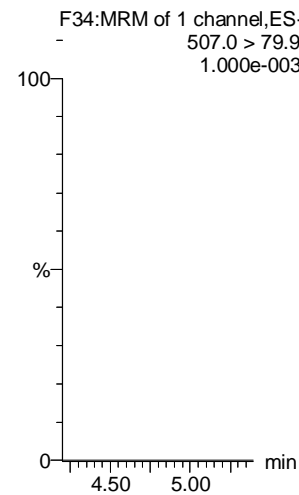
13C2-PFOA



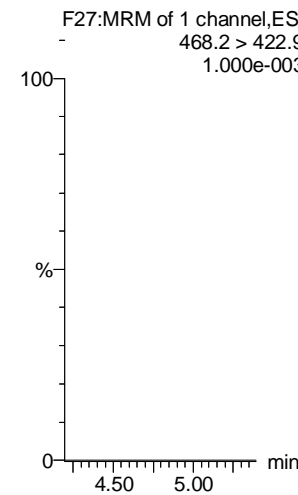
13C2-PFOA



13C8-PFOS



13C5-PFNA



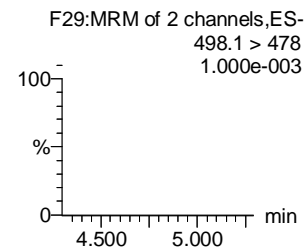
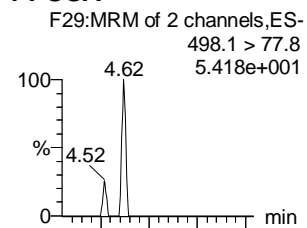
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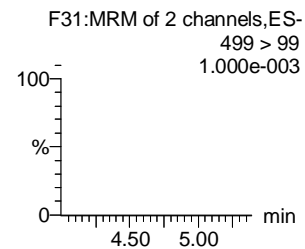
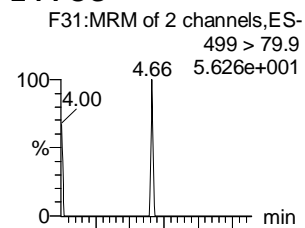
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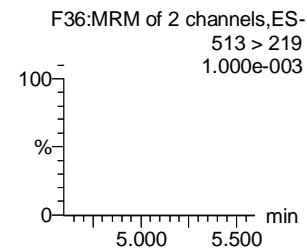
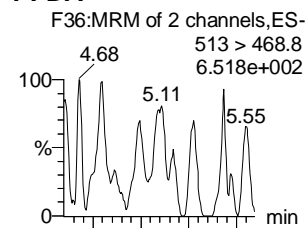
PFOSA



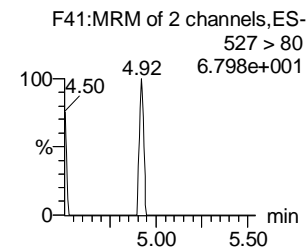
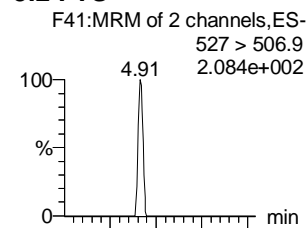
L-PFOS



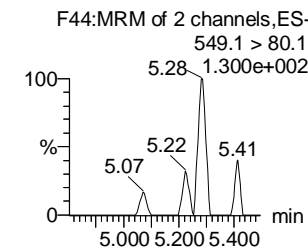
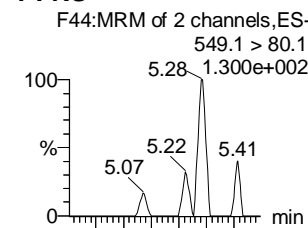
PFDA



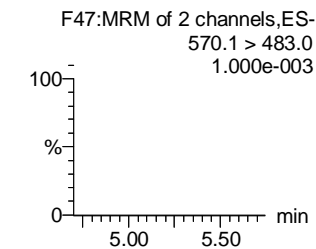
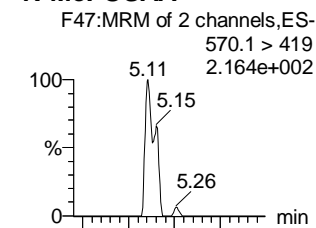
8:2 FTS



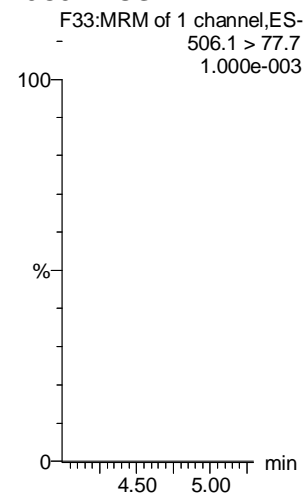
PFNS



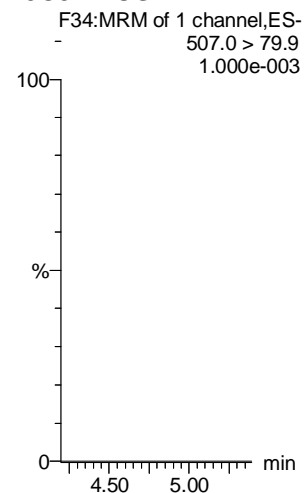
N-MeFOSAA



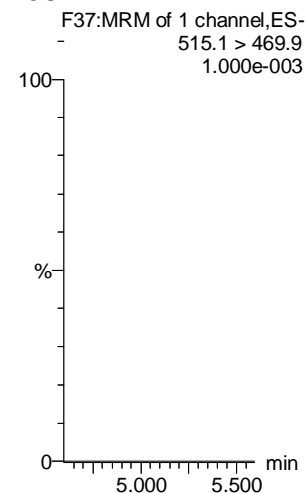
13C8-PFOSA



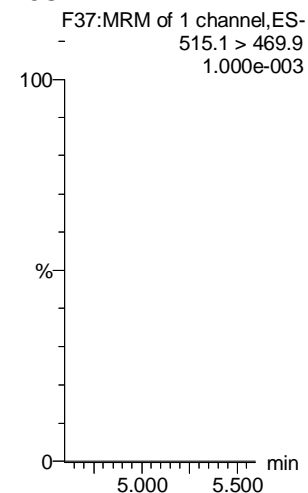
13C8-PFOS



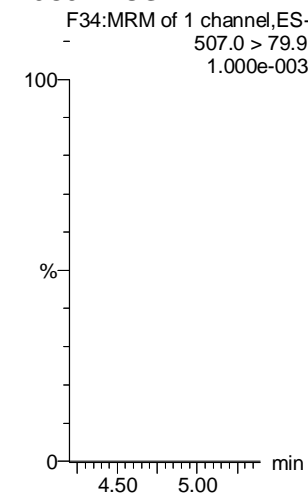
13C2-PFDA



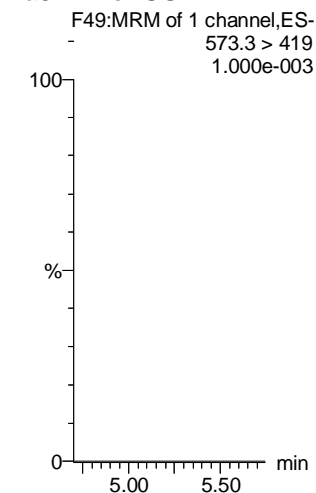
13C2-PFDA



13C8-PFOS



d3-N-MeFOSAA



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N-EtFOSAA

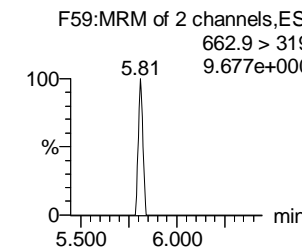
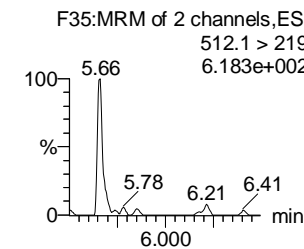
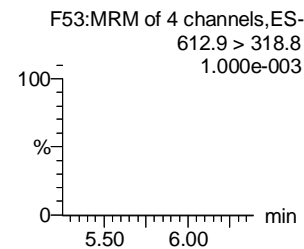
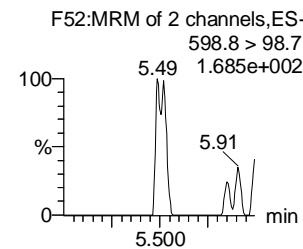
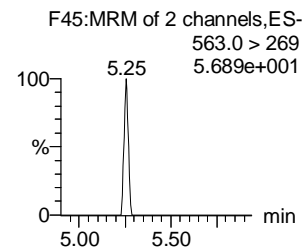
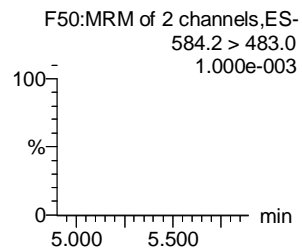
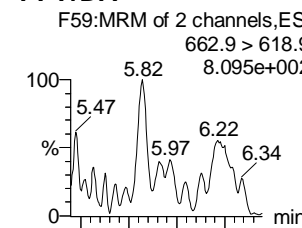
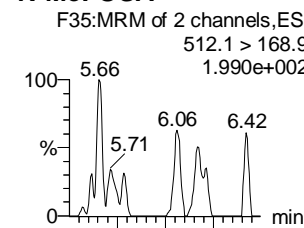
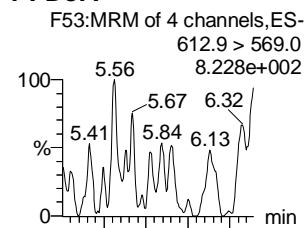
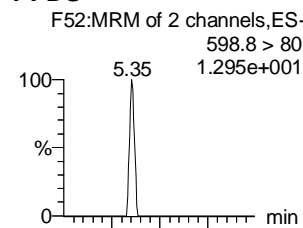
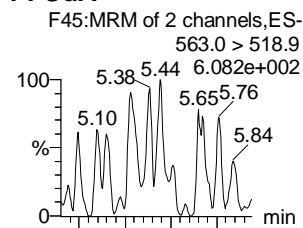
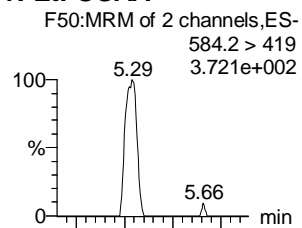
PFUdA

PFDS

PFDaA

N-MeFOSA

PFTrDA



d5-N-EtFOSAA

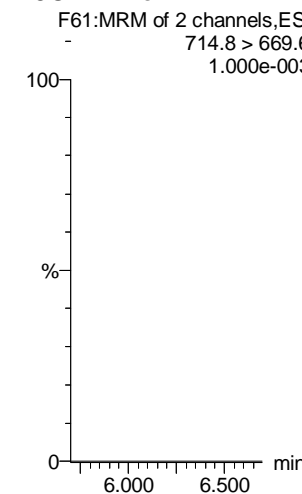
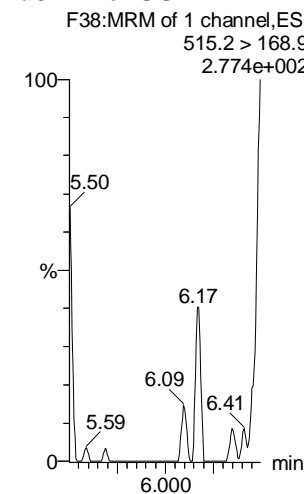
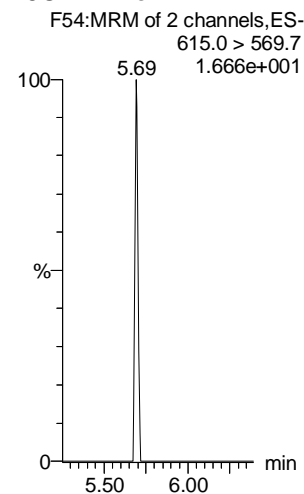
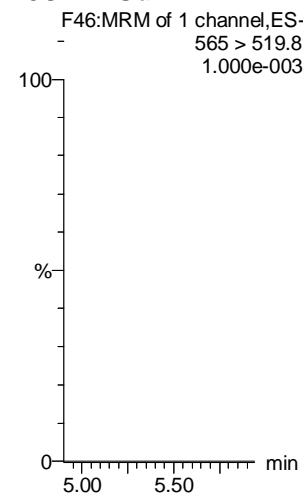
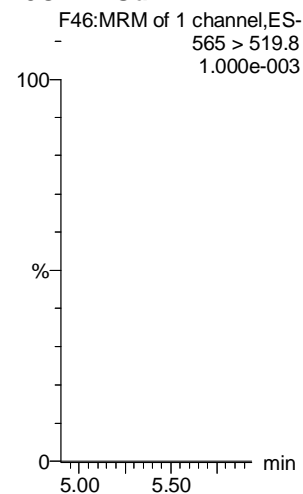
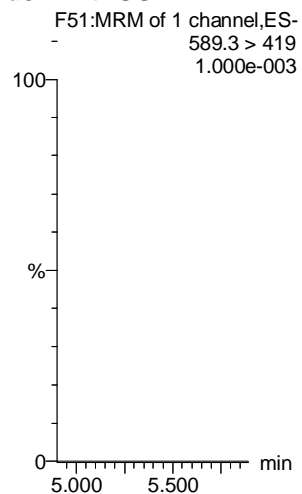
13C2-PFUdA

13C2-PFUdA

13C2-PFDaA

d3-N-MeFOSA

13C2-PFTeDA



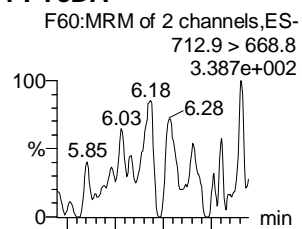
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Last Altered: Wednesday, January 31, 2018 14:18:56 Pacific Standard Time

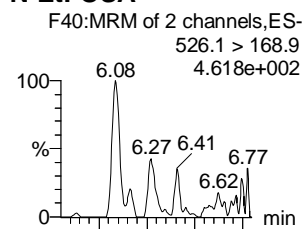
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Name: 180130M2_12, Date: 30-Jan-2018, Time: 13:39:34, ID: IPA, Description: IPA

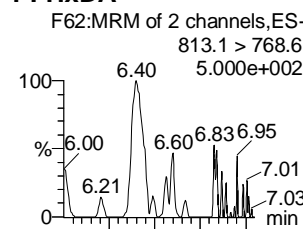
PFTeDA



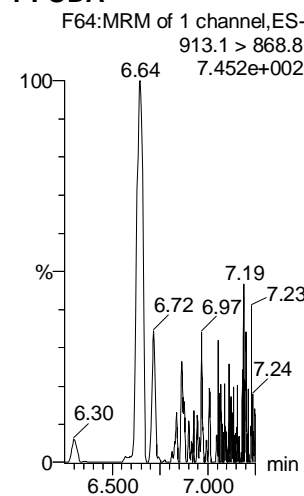
N-EtFOSA



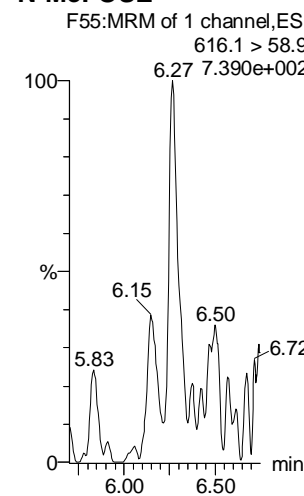
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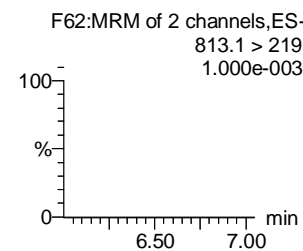
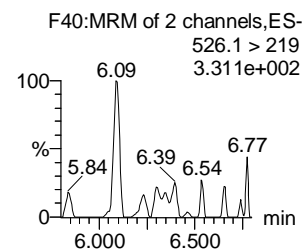
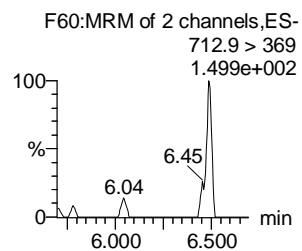
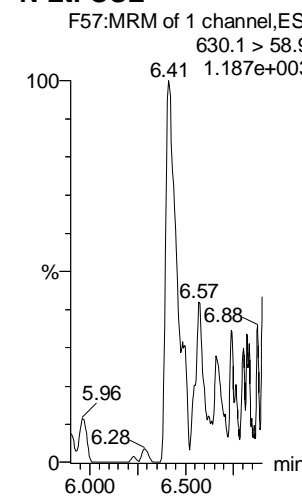
PFODA



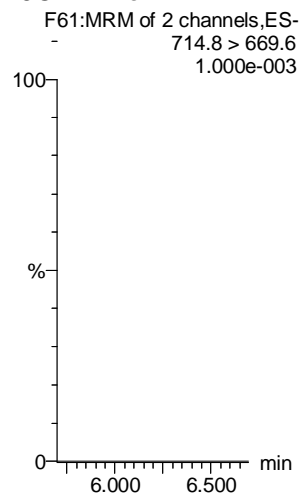
N-MeFOSE



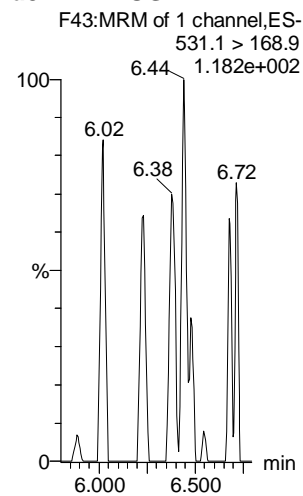
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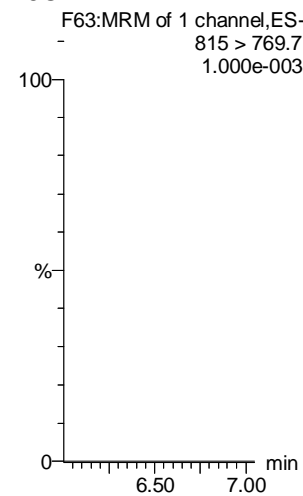
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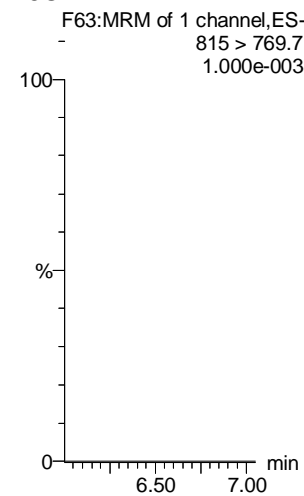
d5-N-ETFOSA



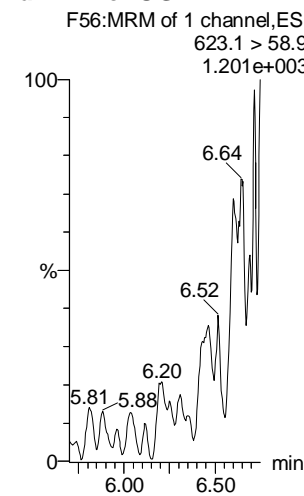
13C2-PFHxDA



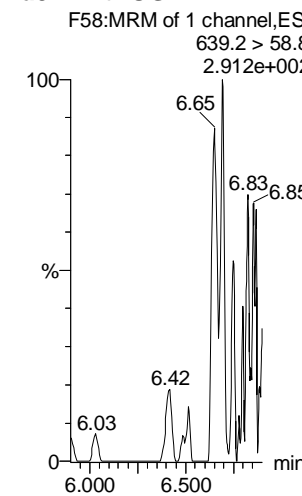
13C2-PFHxDA



d7-N-MeFOSE



d9-N-EtFOSE



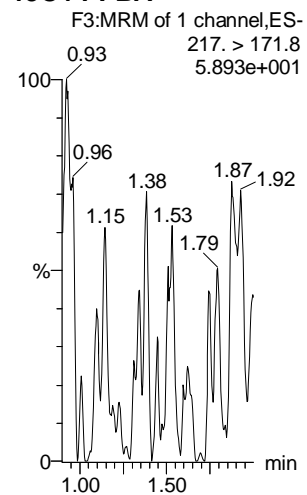
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Last Altered: Wednesday, January 31, 2018 14:18:56 Pacific Standard Time

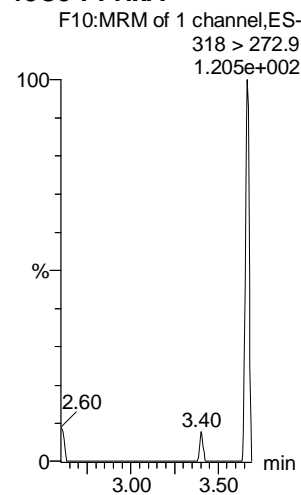
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Name: 180130M2_12, Date: 30-Jan-2018, Time: 13:39:34, ID: IPA, Description: IPA

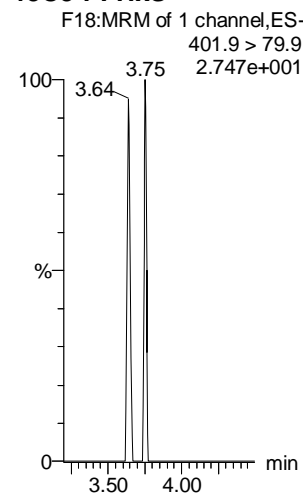
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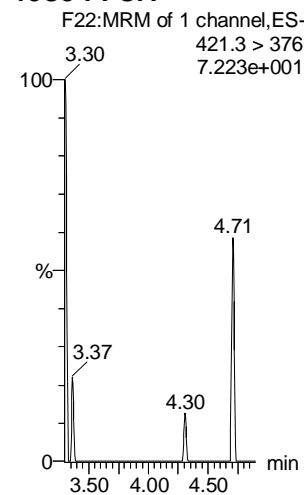
13C5-PFHxA



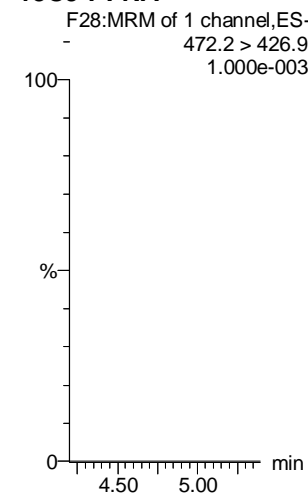
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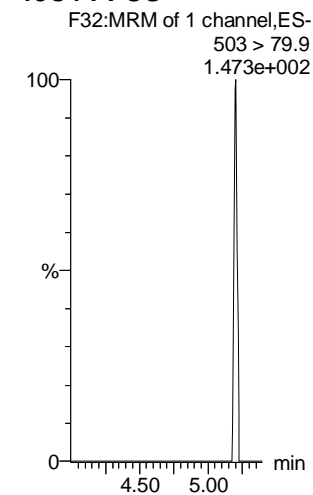
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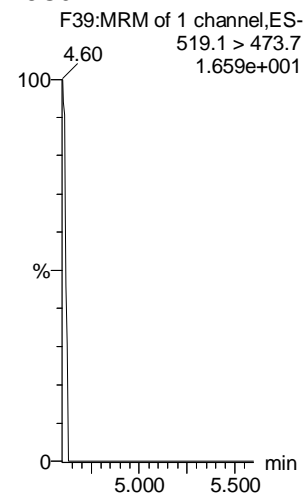
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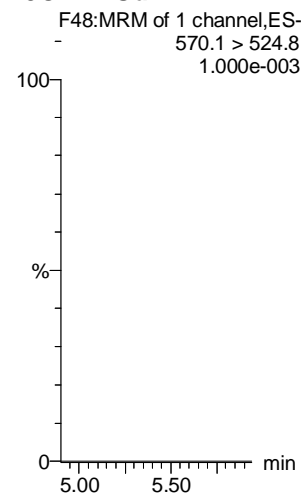
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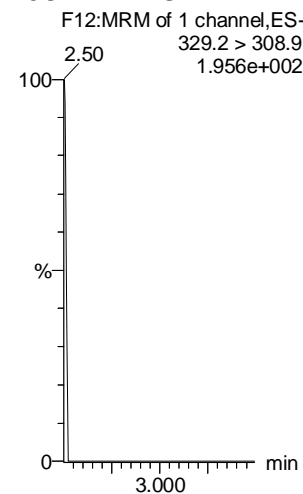
13C6-PFDA



13C7-PFUdA



13C2-4:2 FTS



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-60.qld

Last Altered: Wednesday, January 31, 2018 11:07:35 Pacific Standard Time

Printed: Wednesday, January 31, 2018 11:07:41 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 09:53:30

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_60, Date: 30-Jan-2018, Time: 22:50:01, ID: ST180130M2-12 PFC CS0 18A1906, Description: PFC CS0 18A1906

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01/31/2018

#	Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	7.15e2	8.58e3		1.0000	1.29	1.32	1.04	0.9322	93.2
2	2 PFPeA	263.1 > 218.9	1.21e3	1.47e4		1.0000	2.27	2.27	1.03	0.9784	97.8
3	3 PFBS	299.0 > 79.7	2.74e2	1.91e3		1.0000	2.56	2.55	1.80	0.9550	95.5
4	4 4:2 FTS	327.2>307.2	2.36e2	1.91e3		1.0000	2.93	2.95	1.55	0.8236	82.4
5	5 PFHxA	313.2 > 268.9	1.44e3	4.06e3		1.0000	3.05	3.04	1.77	1.014	101.4
6	6 PFPeS	349.1>80.1	2.58e2	1.91e3		1.0000	3.23	3.25	1.69	0.7542	75.4
7	7 PFHpA	363.0 > 318.9	1.26e3	1.14e4		1.0000	3.68	3.66	1.38	1.063	106.3
8	8 L-PFHxS	398.9 > 79.6	2.30e2	1.35e3		1.0000	3.80	3.81	2.13	1.137	113.7
9	10 6:2 FTS	427.1 > 407	4.11e2	1.80e4		1.0000	4.15	4.13	0.286	1.208	120.8
10	11 L-PFOA	413 > 368.7	1.50e3	1.80e4		1.0000	4.20	4.18	1.04	0.9209	92.1
11	13 PFHpS	449 > 80.0	3.02e2	3.86e3		1.0000	4.30	4.29	0.980	1.054	105.4
12	14 PFNA	463.0 > 418.8	1.52e3	1.52e4		1.0000	4.65	4.62	1.25	0.8878	88.8
13	15 PFOSA	498.1 > 77.8	3.50e2	3.88e3		1.0000	4.70	4.69	1.13	1.062	106.2
14	16 L-PFOS	499 > 79.9	3.39e2	3.86e3		1.0000	4.75	4.70	1.10	1.175	117.5
15	18 PFDA	513 > 468.8	1.84e3	1.58e4		1.0000	5.03	4.99	1.45	1.048	104.8
16	19 8:2 FTS	527 > 506.9	2.31e2	1.58e4		1.0000	5.00	4.97	0.182	0.7901	79.0
17	20 PFNS	549.1>80.1	3.10e2	3.86e3		1.0000	5.05	5.06	1.01	1.055	105.5
18	21 N-MeFOSAA	570.1 > 419	6.42e2	6.17e3		1.0000	5.20	5.15	1.30	0.8545	85.4
19	22 N-EtFOSAA	584.2 > 419	5.01e2	7.58e3		1.0000	5.30	5.30	0.826	0.7351	73.5
20	23 PFUdA	563.0 > 518.9	1.31e3	1.92e4		1.0000	5.36	5.32	0.854	0.7022	70.2
21	24 PFDS	598.8 > 80	3.53e2	1.92e4		1.0000	5.40	5.37	0.229	0.8847	88.5
22	25 PFDoA	612.9 > 569.0	1.84e3	1.43e4		1.0000	5.65	5.60	1.61	1.045	104.5
23	26 N-MeFOSA	512.1 > 168.9	7.70e2	1.95e4		1.0000	5.70	5.74	5.91	5.646	112.9
24	27 PFTrDA	662.9 > 618.9	1.74e3	5.40e3		1.0000	5.90	5.85	4.04	1.026	102.6
25	28 PFTeDA	712.9 > 668.8	9.36e2	5.40e3		1.0000	6.12	6.07	2.17	0.8220	82.2
26	29 N-EtFOSA	526.1 > 168.9	9.68e2	3.05e4		1.0000	6.12	6.15	4.76	5.181	103.6
27	30 PFHxDA	813.1 > 768.6	5.33e2	3.45e3		1.0000	6.46	6.41	0.773	1.149	114.9
28	31 PFODA	913.1 > 868.8	7.43e2	3.45e3		1.0000	6.70	6.64	1.08	1.282	128.2
29	32 N-MeFOSE	616.1 > 58.9	8.62e2	2.72e4		1.0000	6.31	6.30	4.76	4.881	97.6
30	33 N-EtFOSE	630.1 > 58.9	1.12e3	2.28e4		1.0000	6.45	6.45	7.35	6.274	125.5
31	Work Order 079183	216.1 > 171.8	8.58e3	9.88e3	0.842	1.0000	1.30	1.31	10.9	12.90	103.2

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Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-60.qld

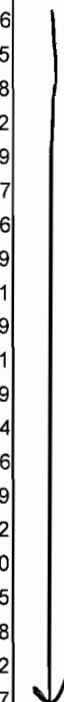
Last Altered: Wednesday, January 31, 2018 11:07:35 Pacific Standard Time

Printed: Wednesday, January 31, 2018 11:07:41 Pacific Standard Time

Name: 180130M2_60, Date: 30-Jan-2018, Time: 22:50:01, ID: ST180130M2-12 PFC CS0 18A1906, Description: PFC CS0 18A1906

#	Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C3-PFPeA	266. > 221.8	1.47e4	1.52e4	0.870	1.0000	2.27	2.27	12.1	13.88	111.1
33	36 13C3-PFBS	302. > 98.8	1.91e3	1.52e4	0.109	1.0000	2.56	2.55	1.56	14.33	114.6
34	37 13C2-PFHxA	315 > 269.8	4.06e3	1.52e4	0.684	1.0000	3.05	3.04	3.33	4.875	97.5
35	38 13C4-PFHpA	367.2 > 321.8	1.14e4	1.52e4	0.732	1.0000	3.68	3.66	9.32	12.72	101.8
36	39 18O2-PFHxS	403.0 > 102.6	1.35e3	3.89e3	0.318	1.0000	3.80	3.81	4.35	13.65	109.2
37	40 13C2-6:2 FTS	429.1 > 408.9	3.68e3	1.39e4	0.263	1.0000	4.15	4.13	3.32	12.61	100.9
38	41 13C2-PFOA	414.9 > 369.7	1.80e4	1.39e4	1.120	1.0000	4.20	4.18	16.2	14.46	115.7
39	42 13C5-PFNA	468.2 > 422.9	1.52e4	1.43e4	0.921	1.0000	4.65	4.62	13.3	14.45	115.6
40	43 13C8-PFOSA	506.1 > 77.7	3.88e3	1.62e4	0.245	1.0000	4.70	4.69	3.00	12.24	97.9
41	44 13C8-PFOS	507.0 > 79.9	3.86e3	4.10e3	1.034	1.0000	4.75	4.70	11.8	11.39	91.1
42	45 13C2-PFDA	515.1 > 469.9	1.58e4	1.44e4	1.080	1.0000	5.03	4.99	13.7	12.73	101.9
43	46 13C2-8:2 FTS	529.1 > 508.7	1.96e3	1.52e4	0.165	1.0000	5.00	4.96	1.61	9.762	78.1
44	47 d3-N-MeFOSAA	573.3 > 419	6.17e3	1.62e4	0.398	1.0000	5.20	5.15	4.77	11.98	95.9
45	48 d5-N-EtFOSAA	589.3 > 419	7.58e3	1.62e4	0.425	1.0000	5.30	5.30	5.86	13.80	110.4
46	49 13C2-PFUdA	565 > 519.8	1.92e4	1.62e4	1.047	1.0000	5.36	5.32	14.9	14.20	113.6
47	50 13C2-PFDoA	615.0 > 569.7	1.43e4	1.62e4	0.805	1.0000	5.65	5.60	11.1	13.74	109.9
48	51 d3-N-MeFOSA	515.2 > 168.9	1.95e4	1.62e4	0.104	1.0000	5.70	5.76	15.1	145.8	97.2
49	52 13C2-PFTeDA	714.8 > 669.6	5.40e3	1.62e4	0.367	1.0000	6.12	6.07	4.17	11.37	91.0
50	53 d5-N-ETFOSA	531.1 > 168.9	3.05e4	1.62e4	0.155	1.0000	6.25	6.16	23.6	152.3	101.5
51	54 13C2-PFHxDA	815 > 769.7	3.45e3	1.62e4	0.721	1.0000	6.46	6.41	2.66	3.692	73.8
52	55 d7-N-MeFOSE	623.1 > 58.9	2.72e4	1.62e4	0.143	1.0000	6.31	6.29	21.0	147.3	98.2
53	56 d9-N-EtFOSE	639.2 > 58.8	2.28e4	1.62e4	0.133	1.0000	6.12	6.44	17.7	133.1	88.7
54	57 13C4-PFBA	217. > 171.8	9.88e3	9.88e3	1.000	1.0000	1.30	1.31	12.5	12.50	100.0
55	58 13C5-PFHxA	318 > 272.9	1.52e4	1.52e4	1.000	1.0000	3.05	3.04	12.5	12.50	100.0
56	59 13C3-PFHxS	401.9 > 79.9	3.89e3	3.89e3	1.000	1.0000	3.80	3.81	12.5	12.50	100.0
57	60 13C8-PFOA	421.3 > 376	1.39e4	1.39e4	1.000	1.0000	4.20	4.18	12.5	12.50	100.0
58	61 13C9-PFNA	472.2 > 426.9	1.43e4	1.43e4	1.000	1.0000	4.65	4.62	12.5	12.50	100.0
59	62 13C4-PFOS	503 > 79.9	4.10e3	4.10e3	1.000	1.0000	4.60	4.70	12.5	12.50	100.0
60	63 13C6-PFDA	519.1 > 473.7	1.44e4	1.44e4	1.000	1.0000	5.03	4.99	12.5	12.50	100.0
61	64 13C7-PFUdA	570.1 > 524.8	1.62e4	1.62e4	1.000	1.0000	5.36	5.32	12.5	12.50	100.0
62	72 13C2-4:2 FTS	329.2>308.9	3.86e3	1.52e4	0.275	1.0000	2.93	2.95	3.17	11.54	92.3

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Dataset: Untitled

Last Altered: Wednesday, January 31, 2018 12:54:14 Pacific Standard Time

Printed: Wednesday, January 31, 2018 12:54:34 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 09:53:30

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Compound name: PFBA

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2	180130M2_2	ST180130M2-1 PFC CS-2 18A1904	30-Jan-18	11:44:38
3	180130M2_3	ST180130M2-2 PFC CS-1 18A1905	30-Jan-18	11:56:07
4	180130M2_4	ST180130M2-3 PFC CS0 18A1906	30-Jan-18	12:07:36
5	180130M2_5	ST180130M2-4 PFC CS1 18A1907	30-Jan-18	12:19:06
6	180130M2_6	ST180130M2-5 PFC CS2 18A1908	30-Jan-18	12:30:35
7	180130M2_7	ST180130M2-6 PFC CS3 18A1909	30-Jan-18	12:42:05
8	180130M2_8	ST180130M2-7 PFC CS4 18A1910	30-Jan-18	12:53:35
9	180130M2_9	ST180130M2-8 PFC CS5 18A1911	30-Jan-18	13:05:04
10	180130M2_10	ST180130M2-9 PFC CS6 18A2403	30-Jan-18	13:16:34
11	180130M2_11	ST180130M2-10 PFC CS7 18A2404	30-Jan-18	13:28:04
12	180130M2_12	IPA	30-Jan-18	13:39:34
13	180130M2_13	ICV180130M2-1 PFC ICV 18A1903	30-Jan-18	13:51:03
14	180130M2_14	IPA	30-Jan-18	14:02:33
15	180130M2_15	1800188-02 REEPDW133FRB 0.11579	30-Jan-18	14:14:05
16	180130M2_16	1800204-03 REEPDW137 0.11904	30-Jan-18	14:25:29
17	180130M2_17	1800204-07 REEPDW513 0.11719	30-Jan-18	14:36:56
18	180130M2_18	B8A0173-BLK1 Method Blank 0.125	30-Jan-18	14:48:23
19	180130M2_19	B8A0173-BS1 OPR 0.125	30-Jan-18	14:59:50
20	180130M2_20	B8A0173-BS2 OPR 0.125	30-Jan-18	15:11:16
21	180130M2_21	B8A0173-BS3 OPR 0.125	30-Jan-18	15:22:44
22	180130M2_22	B8A0173-BS4 OPR 0.125	30-Jan-18	15:34:10
23	180130M2_23	B8A0070-BS1 OPR 0.25	30-Jan-18	15:45:37
24	180130M2_24	B8A0070-BLK1 Method Blank 0.25	30-Jan-18	15:57:07
25	180130M2_25	1800010-01 PFAS Ground Water _Surface Wate...	30-Jan-18	16:08:37
26	180130M2_26	IPA	30-Jan-18	16:20:04
27	180130M2_27	B8A0054-BS1 OPR 1	30-Jan-18	16:31:30
28	180130M2_28	B8A0054-BLK1 Method Blank 1	30-Jan-18	16:42:57
29	180130M2_29	1800011-01 PFAS in Soil Lot#122917C2 1	30-Jan-18	16:54:27
30	180130M2_30	B8A0115-MS1 Matrix Spike 0.25673	30-Jan-18	17:05:57
31	180130M2_31	B8A0115-MSD1@10X Matrix Spike Dup 0.25042	30-Jan-18	17:17:24

Dataset: Untitled

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	180130M2_32	1800121-02 EB01-20180115 0.25066	30-Jan-18	17:28:54
33	180130M2_33	1800121-04 IRSite5-GW-05W06-20180115 0.2...	30-Jan-18	17:40:22
34	180130M2_34	1800121-06 IRSite5-GW-05W01-20180115 0.2...	30-Jan-18	17:51:52
35	180130M2_35	1800121-07 IRSite5-GW-05W03-20180115 0.2...	30-Jan-18	18:03:22
36	180130M2_36	1800121-08 UXOSite14-GW-DPW79A-2018011...	30-Jan-18	18:14:48
37	180130M2_37	1800121-09 UXOSite14-GW-DPW78A-2018011...	30-Jan-18	18:26:15
38	180130M2_38	1800121-10 UXOSite14-GW-DPW77A-2018011...	30-Jan-18	18:37:42
39	180130M2_39	IPA	30-Jan-18	18:49:09
40	180130M2_40	ST180130M2-11 PFC CS3 18A1909	30-Jan-18	19:00:38
41	180130M2_41	IPA	30-Jan-18	19:12:08
42	180130M2_42	1800121-11 IRSite1-GW-01W48A -20180115 0....	30-Jan-18	19:23:37
43	180130M2_43	1800121-12 IRSite1-GW-01W49A- 20180115 0....	30-Jan-18	19:35:04
44	180130M2_44	1800121-13 IRSite1-GW-01W13A- 20180115 0....	30-Jan-18	19:46:34
45	180130M2_45	1800121-14 DUP01-20180115 0.26578	30-Jan-18	19:58:03
46	180130M2_46	1800132-14 PITTS-EB-011118-1400 0.12081	30-Jan-18	20:09:34
47	180130M2_47	B8A0140-BS1 OPR 0.25	30-Jan-18	20:21:00
48	180130M2_48	B8A0140-BSD1 LCSD 0.25	30-Jan-18	20:32:30
49	180130M2_49	B8A0140-BLK1 Method Blank 0.25	30-Jan-18	20:44:00
50	180130M2_50	1800127-01 EB02-20180116 0.27074	30-Jan-18	20:55:29
51	180130M2_51	1800127-02 IRSite1-GW-01W53A-20180116 0....	30-Jan-18	21:06:58
52	180130M2_52	1800127-03 IRSite1-GW-MW80A-20180116 0.2...	30-Jan-18	21:18:25
53	180130M2_53	1800127-04 IRSite1-GW-01W28B-20180116 0....	30-Jan-18	21:29:51
54	180130M2_54	1800127-05 IRSite1-GW-01W38AR-20180116 ...	30-Jan-18	21:41:18
55	180130M2_55	1800127-06 IRSite1-GW-MW86A-20180116 0.2...	30-Jan-18	21:52:45
56	180130M2_56	1800127-07 IRSite1-GW-MW85A-20180116 0.2...	30-Jan-18	22:04:12
57	180130M2_57	1800127-08 DUP02-20180116 0.25425	30-Jan-18	22:15:39
58	180130M2_58	1800127-09 IRSite1-GW-MW82A-20180116 0.2...	30-Jan-18	22:27:06
59	180130M2_59	IPA	30-Jan-18	22:38:33
60	180130M2_60	ST180130M2-12 PFC CS0 18A1906	30-Jan-18	22:50:01
61	180130M2_61	IPA	30-Jan-18	23:01:30
62	180130M2_62	1800139-01 LH-TAP 0.27467	30-Jan-18	23:13:00
63	180130M2_63	1800139-02 LH-RAW 0.27394	30-Jan-18	23:24:27
64	180130M2_64	1701953-01@10X CV-Dup09-20171213 0.2568	30-Jan-18	23:35:57
65	180130M2_65	1701953-10@10X SA-PZ118S-20171213 0.235...	30-Jan-18	23:47:26

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	180130M2_66	IPA	30-Jan-18	23:58:55
67	180130M2_67	B7L0136-BLK1 Method Blank 0.0075	31-Jan-18	00:10:22
68	180130M2_68	B7L0136-BS1 OPR 0.0075	31-Jan-18	00:21:50
69	180130M2_69	B7L0136-BS2 OPR 0.0075	31-Jan-18	00:33:19
70	180130M2_70	B7L0136-BS3 OPR 0.0075	31-Jan-18	00:44:49
71	180130M2_71	B7L0136-BS4 OPR 0.0075	31-Jan-18	00:56:18
72	180130M2_72	B7L0140-BS1 OPR 0.0075	31-Jan-18	01:07:47
73	180130M2_73	B7L0140-BSD1 LCSD 0.0075	31-Jan-18	01:19:13
74	180130M2_74	B7L0140-BLK1 Method Blank 0.0075	31-Jan-18	01:30:42
75	180130M2_75	1701882-02RE1 WI-A06-6-I-01-1217-TOP 0.0075	31-Jan-18	01:42:11
76	180130M2_76	1701882-04RE1 WI-A06-EB01-120517-TOP 0....	31-Jan-18	01:53:42
77	180130M2_77	1701882-06RE1 WI-A06-EB02-120517-TOP 0....	31-Jan-18	02:05:12
78	180130M2_78	1701882-08RE1 WI-A06-EFF01-1217-TOP 0.0...	31-Jan-18	02:16:41
79	180130M2_79	1701882-10RE1 WI-A06-EFF01P-1217-TOP 0....	31-Jan-18	02:28:08
80	180130M2_80	1701882-12RE1 WI-A06-INF01-1217-TOP 0.00...	31-Jan-18	02:39:37
81	180130M2_81	1701882-14RE1 WI-A06-P-4-1217-TOP 0.0075	31-Jan-18	02:51:06
82	180130M2_82	1701882-16RE1 WI-A06-6-I-03-1217-TOP 0.0075	31-Jan-18	03:02:33
83	180130M2_83	IPA	31-Jan-18	03:14:03
84	180130M2_84	ST180130M2-13 PFC CS3 18A1909	31-Jan-18	03:25:32
85	180130M2_85	IPA	31-Jan-18	03:37:02
86	180130M2_86	B8A0165-BS1 OPR 0.25	31-Jan-18	03:48:35
87	180130M2_87	B8A0165-BSD1 LCSD 0.25	31-Jan-18	03:59:59
88	180130M2_88	B8A0165-BLK1 Method Blank 0.25	31-Jan-18	04:11:26
89	180130M2_89	1800186-01 REEPDW132 0.12041	31-Jan-18	04:22:53
90	180130M2_90	1800186-02 REEPDW133 0.12113	31-Jan-18	04:34:22
91	180130M2_91	1800186-03 REEPDW134 0.12099	31-Jan-18	04:45:52
92	180130M2_92	1800196-01 GW1519180119RAP 0.26117	31-Jan-18	04:57:21
93	180130M2_93	1800196-02 GW2529180119RAP 0.26519	31-Jan-18	05:08:48
94	180130M2_94	1800196-03 GW3539180119RAP 0.26249	31-Jan-18	05:20:17
95	180130M2_95	1800207-01 SPLP Solution #1	31-Jan-18	05:31:47
96	180130M2_96	1800207-02 SPLP Solution #2	31-Jan-18	05:43:14
97	180130M2_97	1800207-03 TCLP Solution #1 0.12117	31-Jan-18	05:54:41
98	180130M2_98	1800207-04 TCLP Solution #2 0.12163	31-Jan-18	06:06:08
99	180130M2_99	IPA	31-Jan-18	06:17:37

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
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101	180130M2_101	IPA	31-Jan-18	06:40:36
102	180130M2_102	B8A0119-BS1 OPR 1	31-Jan-18	06:52:05
103	180130M2_103	B8A0119-BLK1 Method Blank 1	31-Jan-18	07:03:32
104	180130M2_104	B8A0119-MS1 Matrix Spike 1.23	31-Jan-18	07:14:59
105	180130M2_105	B8A0119-MSD1 Matrix Spike Dup 1.13	31-Jan-18	07:26:25
106	180130M2_106	1800098-01 MINNE-09-SB01-010818-00-02 1.16	31-Jan-18	07:37:52
107	180130M2_107	1800098-02 MINNE-09-SB01-010818-16-18 1.17	31-Jan-18	07:49:22
108	180130M2_108	1800098-03 MINNE-09-SB03-010818-01-02 1.21	31-Jan-18	08:00:51
109	180130M2_109	1800098-04 MINNE-09-SB03-010818-15-17 1.13	31-Jan-18	08:12:21
110	180130M2_110	1800098-05 MINNE-10-SB01-010818-00-02 1.3	31-Jan-18	08:23:50
111	180130M2_111	1800098-06 MINNE-10-SB01-010818-09-11 1.13	31-Jan-18	08:35:17
112	180130M2_112	1800098-07 MINNE-10-SB03-010818-00-02 1.29	31-Jan-18	08:46:43
113	180130M2_113	1800098-08 MINNE-10-SB03-010818-15-16 1.22	31-Jan-18	08:58:11
114	180130M2_114	1800098-09 MINNE-10-SB04-010818-01-02 1.16	31-Jan-18	09:09:38
115	180130M2_115	1800098-11 MINNE-SO-DUP01-010818 1.18	31-Jan-18	09:21:06
116	180130M2_116	IPA	31-Jan-18	09:32:33
117	180130M2_117	ST180130M2-15 PFC CS0 18A1906	31-Jan-18	09:44:03
118	180130M2_118	IPA	31-Jan-18	09:55:31
119	180130M2_119	1800098-12 MINNE-SO-DUP02-010818 1.13	31-Jan-18	10:07:01
120	180130M2_120	1800099-01 MINNE-08-SB03-010818-01-02 1.16	31-Jan-18	10:20:17
121	180130M2_121	1800099-02 MINNE-08-SB03-010818-15-17 1.17	31-Jan-18	10:31:40
122	180130M2_122	1800099-03 MINNE-10-SB02-010918-00-02 1.11	31-Jan-18	10:43:07
123	180130M2_123	1800099-04 MINNE-10-SB02-010918-15-17 1.15	31-Jan-18	10:54:34
124	180130M2_124	1800099-05 MINNE-10-SB04-010818-16-18 1.18	31-Jan-18	11:06:01
125	180130M2_125	IPA	31-Jan-18	11:17:30
126	180130M2_126	B8A0148-BS1 OPR 1	31-Jan-18	11:28:58
127	180130M2_127	B8A0148-BLK1 Method Blank 1	31-Jan-18	11:40:29
128	180130M2_128	1800193-01 CANGPFOS20180122 1.11	31-Jan-18	11:51:57
129	180130M2_129	IPA	31-Jan-18	12:03:26
130	180130M2_130	ST180130M2-16 PFC CS3 18A1909	31-Jan-18	12:14:57
131	180130M2_131	IPA	31-Jan-18	12:26:23

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Last Altered: Wednesday, January 31, 2018 11:07:35 Pacific Standard Time

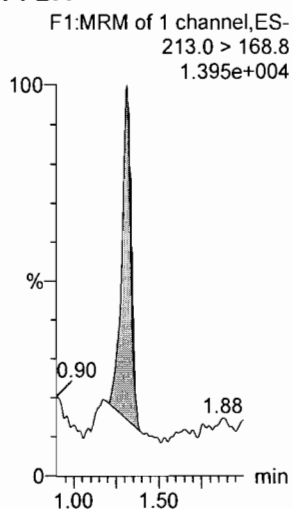
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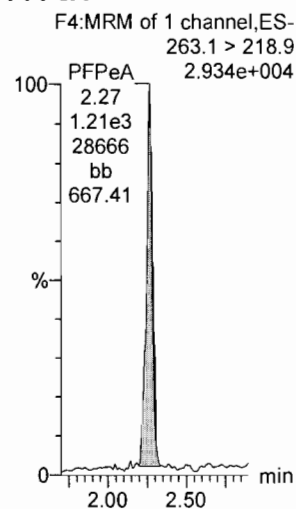
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

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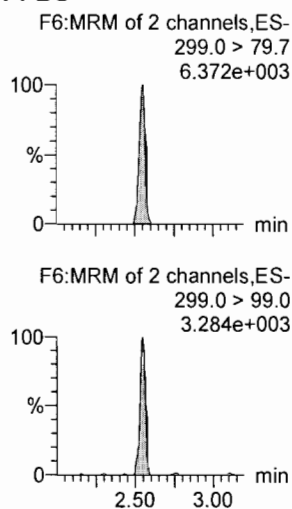
PFBA



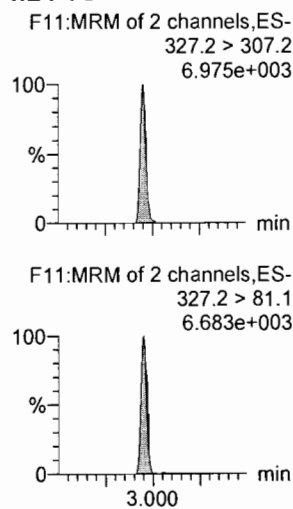
PFPeA



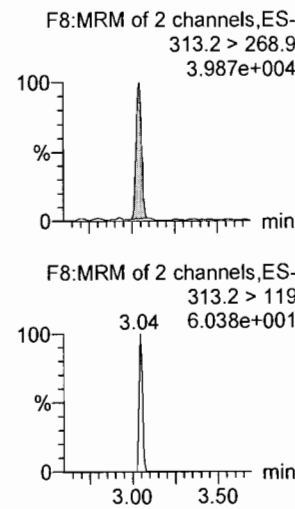
PFBS



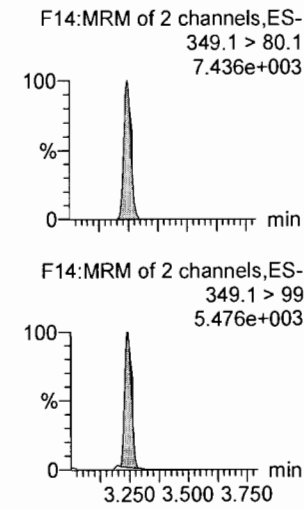
4:2 FTS



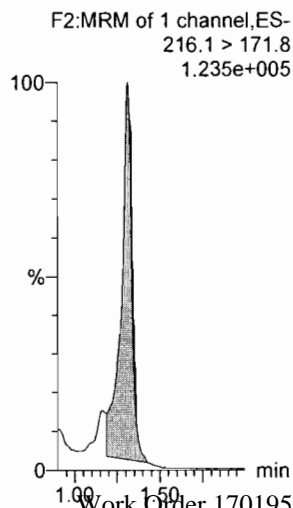
PFHxA



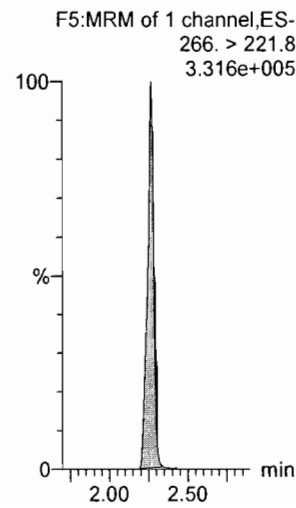
PFPeS



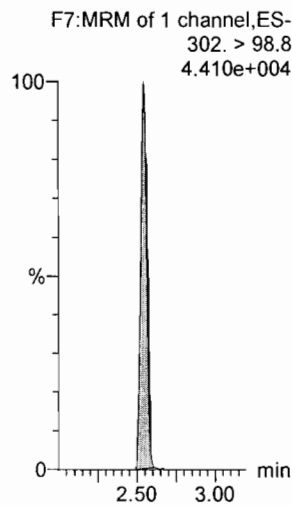
13C3-PFBA



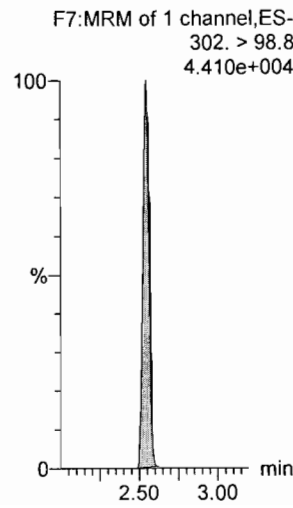
13C3-PFPeA



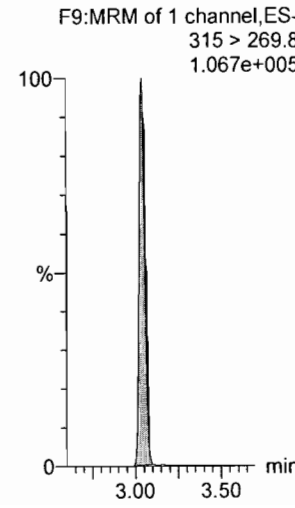
13C3-PFBS



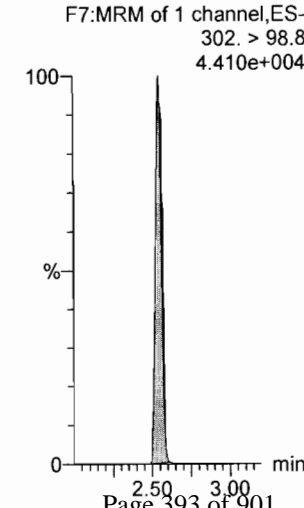
13C3-PFBS



13C2-PFHxA



13C3-PFBS

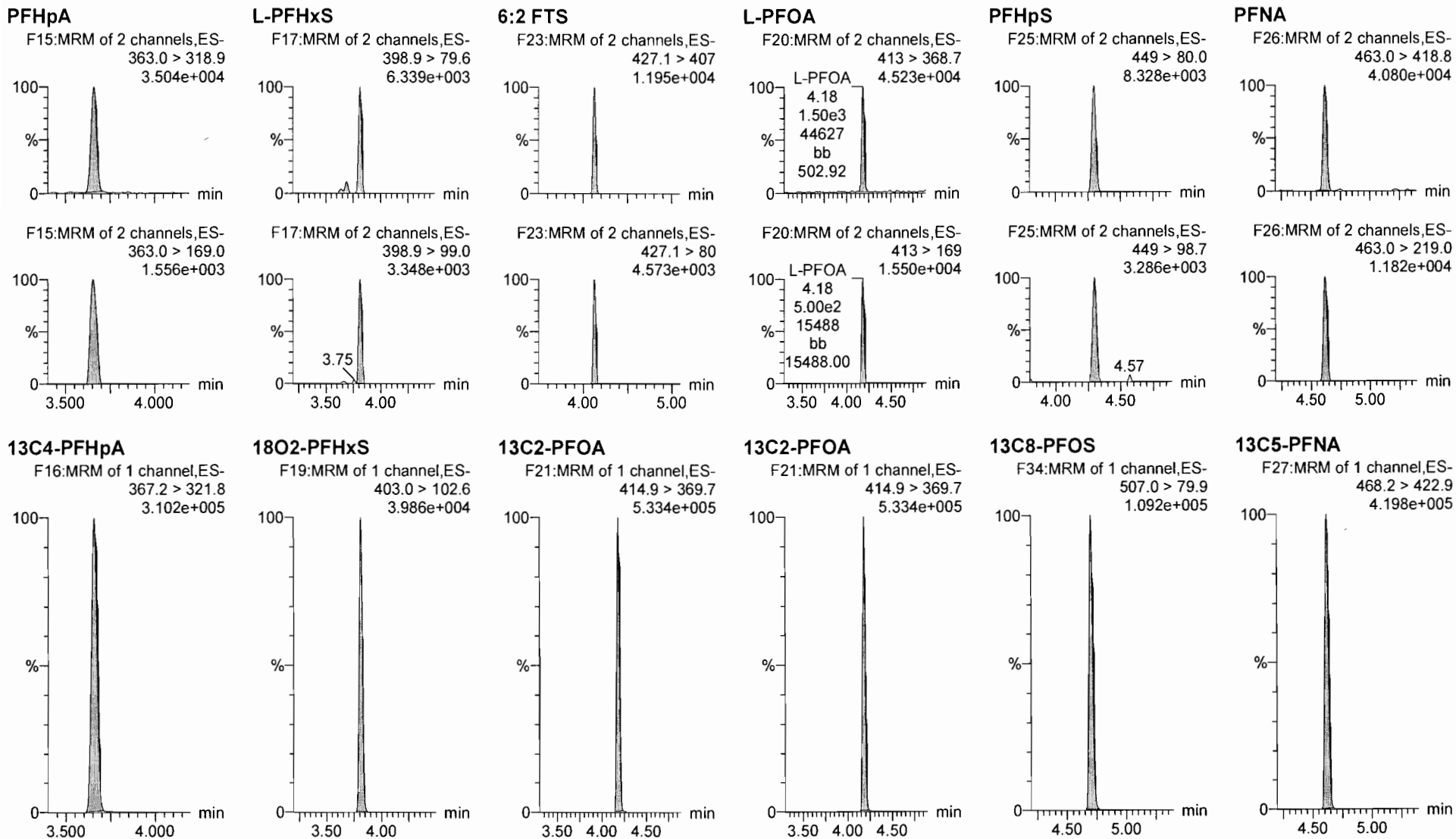


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Last Altered: Wednesday, January 31, 2018 11:07:35 Pacific Standard Time

Printed: Wednesday, January 31, 2018 11:07:41 Pacific Standard Time

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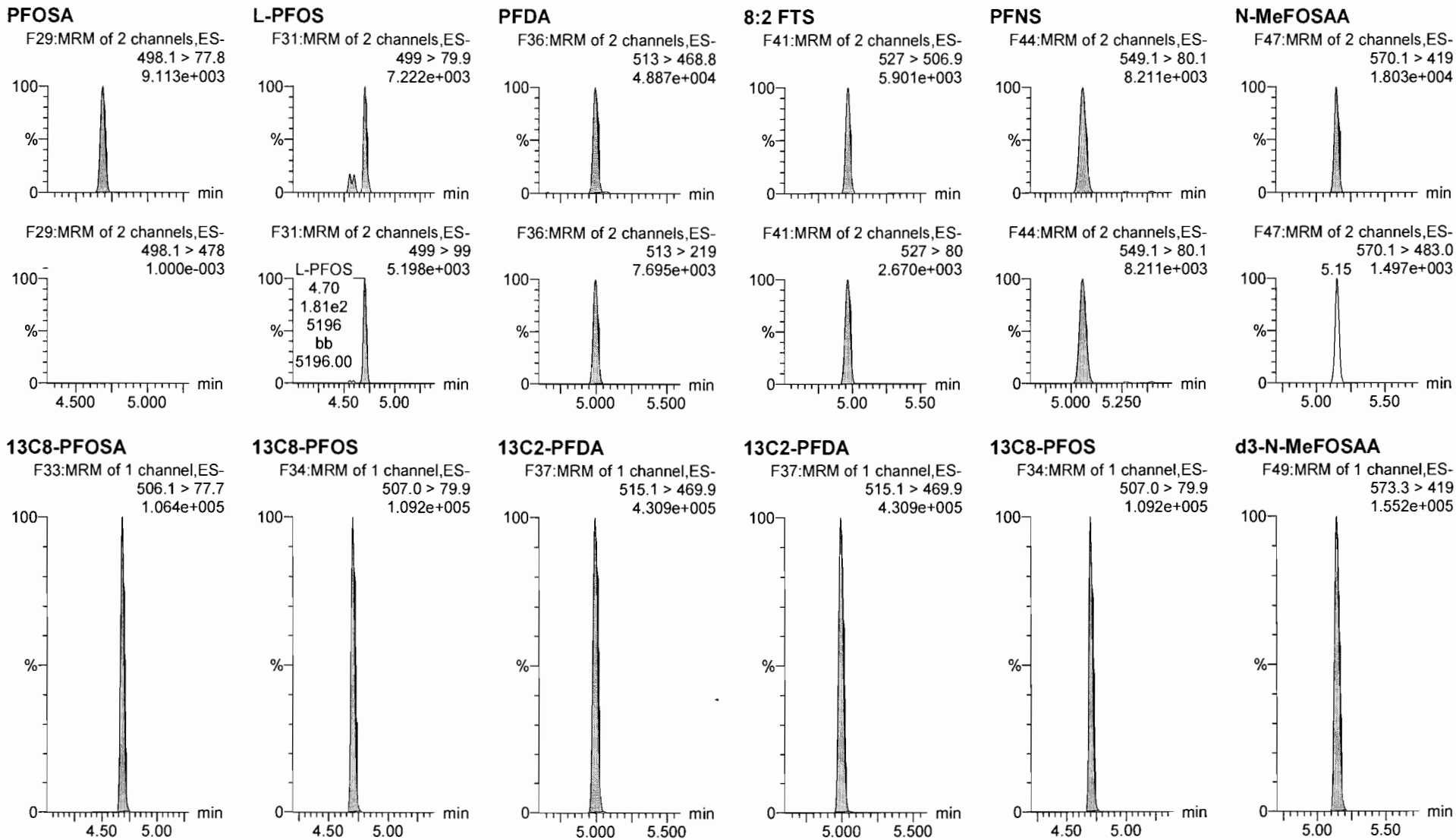


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Printed: Wednesday, January 31, 2018 11:07:41 Pacific Standard Time

Name: 180130M2_60, Date: 30-Jan-2018, Time: 22:50:01, ID: ST180130M2-12 PFC CS0 18A1906, Description: PFC CS0 18A1906



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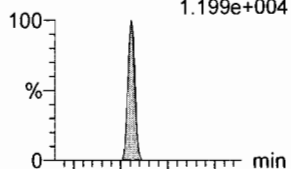
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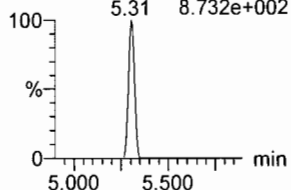
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N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
1.199e+004

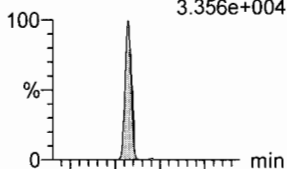


F50:MRM of 2 channels,ES-
584.2 > 483.0
8.732e+002

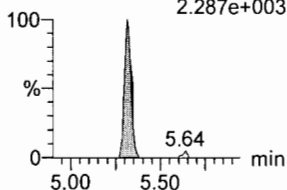


PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
3.356e+004

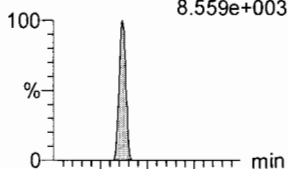


F45:MRM of 2 channels,ES-
563.0 > 269
2.287e+003

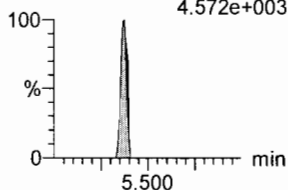


PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
8.559e+003

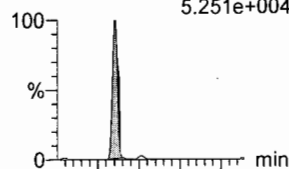


F52:MRM of 2 channels,ES-
598.8 > 98.7
4.572e+003

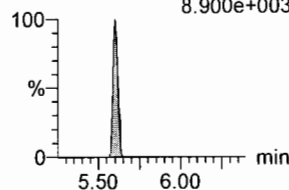


PFDoA

F53:MRM of 4 channels,ES-
612.9 > 569.0
5.251e+004

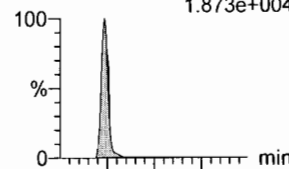


F53:MRM of 4 channels,ES-
612.9 > 318.8
8.900e+003

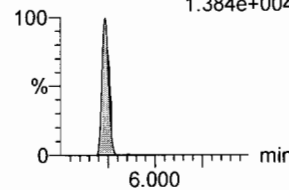


N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
1.873e+004

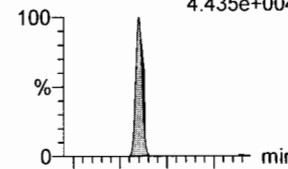


F35:MRM of 2 channels,ES-
512.1 > 219
1.384e+004

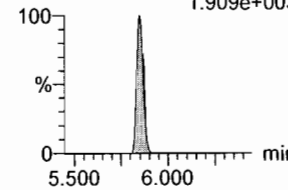


PFTrDA

F59:MRM of 2 channels,ES-
662.9 > 618.9
4.435e+004

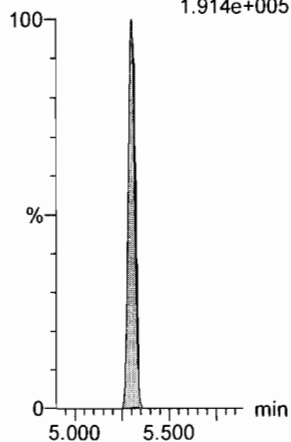


F59:MRM of 2 channels,ES-
662.9 > 319
1.909e+003



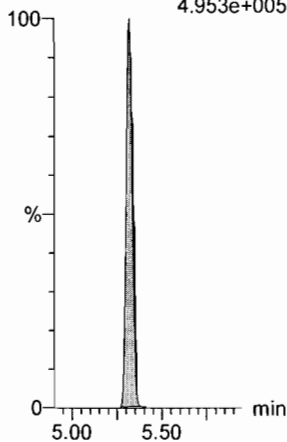
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.914e+005



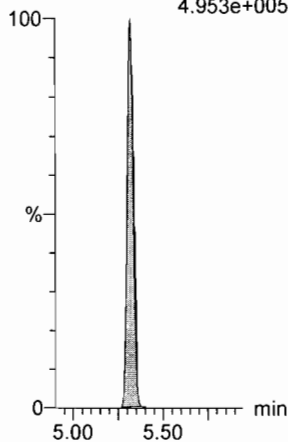
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
4.953e+005



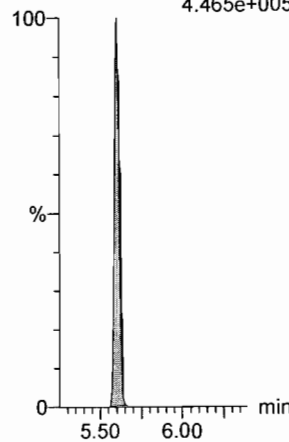
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
4.953e+005



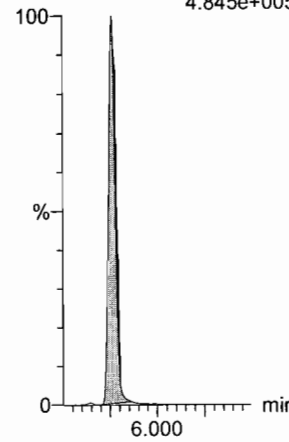
13C2-PFDoA

F54:MRM of 2 channels,ES-
615.0 > 569.7
4.465e+005



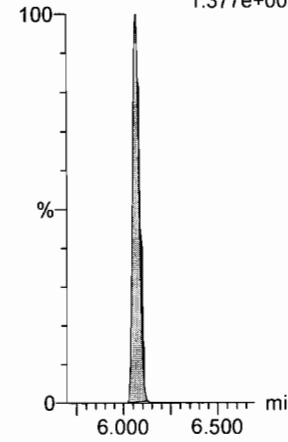
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
4.845e+005



13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.377e+005

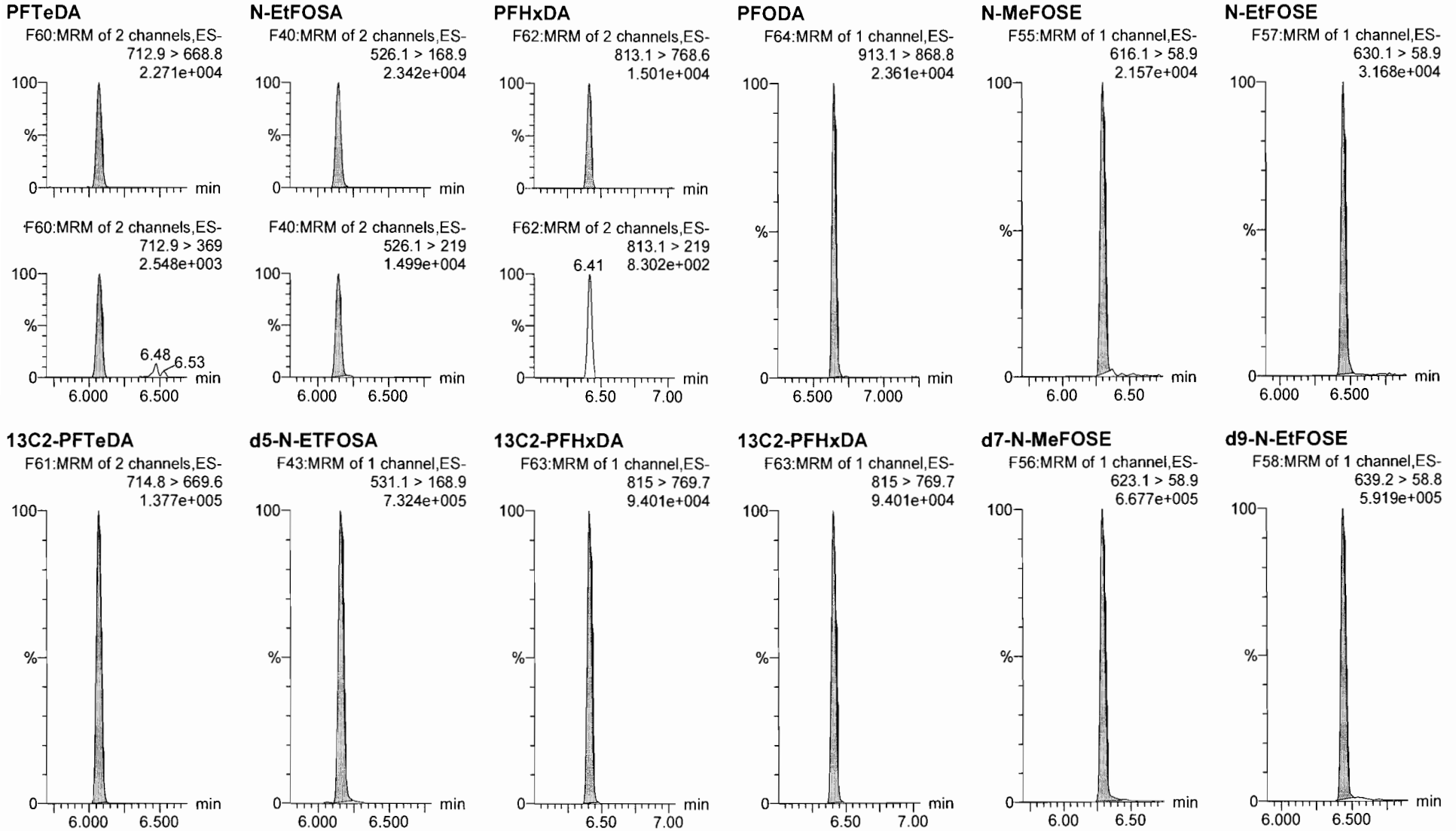


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-60.qld

Last Altered: Wednesday, January 31, 2018 11:07:35 Pacific Standard Time

Printed: Wednesday, January 31, 2018 11:07:41 Pacific Standard Time

Name: 180130M2_60, Date: 30-Jan-2018, Time: 22:50:01, ID: ST180130M2-12 PFC CS0 18A1906, Description: PFC CS0 18A1906



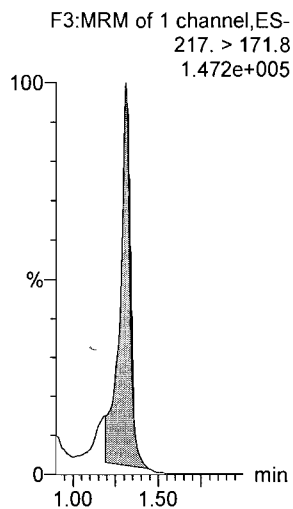
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Last Altered: Wednesday, January 31, 2018 11:07:35 Pacific Standard Time

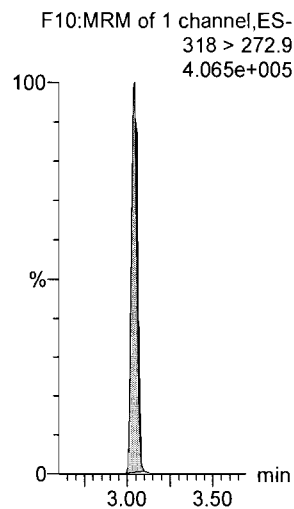
Printed: Wednesday, January 31, 2018 11:07:41 Pacific Standard Time

Name: 180130M2_60, Date: 30-Jan-2018, Time: 22:50:01, ID: ST180130M2-12 PFC CS0 18A1906, Description: PFC CS0 18A1906

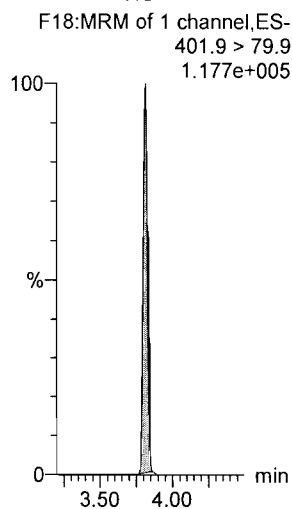
13C4-PFBA



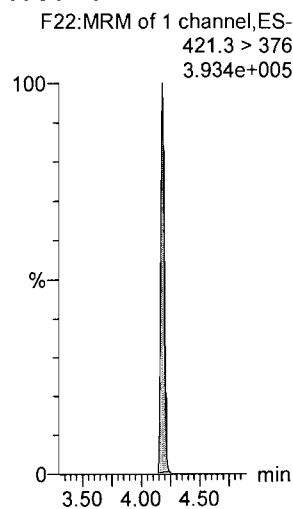
13C5-PFHxA



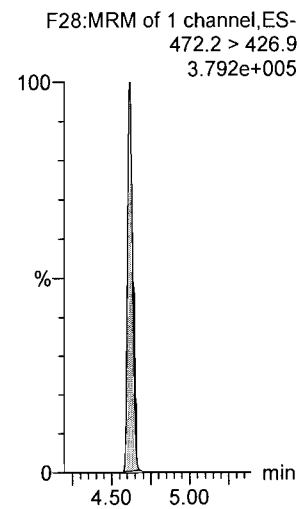
13C3-PFHxS



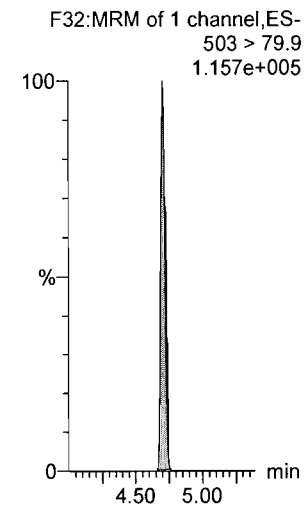
13C8-PFOA



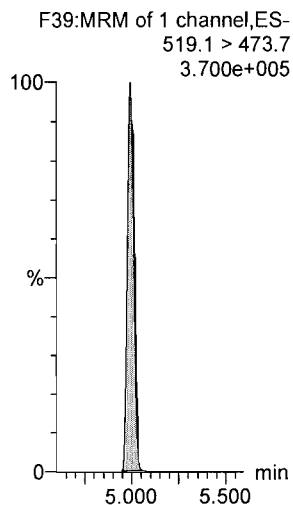
13C9-PFNA



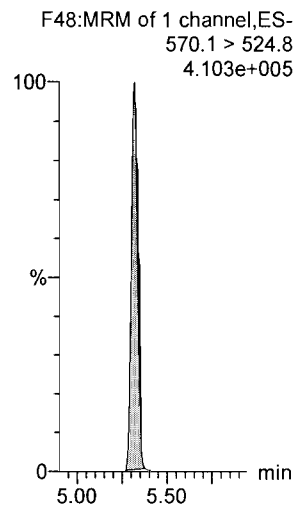
13C4-PFOS



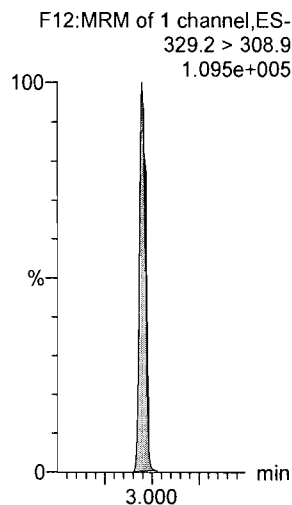
13C6-PFDA



13C7-PFUdA



13C2-4:2 FTS



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-84.qld

Last Altered: Wednesday, January 31, 2018 11:09:39 Pacific Standard Time
Printed: Wednesday, January 31, 2018 11:11:02 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 09:53:30
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909

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01/31/2018

#	Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.17e3	9.11e3	1.0000		1.29	1.32	12.6	10.84	108.4
2	2 PFPeA	263.1 > 218.9	1.35e4	1.55e4	1.0000		2.27	2.28	10.9	10.74	107.4
3	3 PFBS	299.0 > 79.7	3.15e3	2.10e3	1.0000		2.56	2.55	18.8	10.42	104.2
4	4 4:2 FTS	327.2>307.2	2.82e3	2.10e3	1.0000		2.93	2.96	16.8	9.068	90.7
5	5 PFHxA	313.2 > 268.9	1.75e4	5.20e3	1.0000		3.05	3.05	16.8	10.44	104.4
6	6 PFPeS	349.1>80.1	3.52e3	2.10e3	1.0000		3.23	3.25	21.0	10.81	108.1
7	7 PFHpA	363.0 > 318.9	1.35e4	1.38e4	1.0000		3.68	3.67	12.3	10.30	103.0
8	8 L-PFHxS	398.9 > 79.6	2.14e3	1.31e3	1.0000		3.80	3.82	20.5	11.04	110.4
9	10 6:2 FTS	427.1 > 407	3.15e3	1.72e4	1.0000		4.15	4.13	2.29	9.891	98.9
10	11 L-PFOA	413 > 368.7	1.60e4	1.72e4	1.0000		4.20	4.19	11.6	11.05	110.5
11	13 PFHpS	449 > 80.0	3.69e3	3.54e3	1.0000		4.30	4.30	13.0	12.90	129.0
12	14 PFNA	463.0 > 418.8	1.48e4	1.50e4	1.0000		4.65	4.62	12.4	9.992	99.9
13	15 PFOSA	498.1 > 77.8	3.71e3	4.07e3	1.0000		4.70	4.69	11.4	10.42	104.2
14	16 L-PFOS	499 > 79.9	3.57e3	3.54e3	1.0000		4.75	4.71	12.6	11.78	117.8
15	18 PFDA	513 > 468.8	1.66e4	1.53e4	1.0000		5.03	5.00	13.5	10.36	103.6
16	19 8:2 FTS	527 > 506.9	3.61e3	1.53e4	1.0000		5.00	4.97	2.95	11.91	119.1
17	20 PFNS	549.1>80.1	3.05e3	3.54e3	1.0000		5.05	5.06	10.8	12.16	121.6
18	21 N-MeFOSAA	570.1 > 419	9.24e3	7.13e3	1.0000		5.20	5.16	16.2	10.35	103.5
19	22 N-EtFOSAA	584.2 > 419	7.05e3	7.81e3	1.0000		5.30	5.31	11.3	10.30	103.0
20	23 PFUdA	563.0 > 518.9	1.58e4	1.82e4	1.0000		5.36	5.32	10.8	9.216	92.2
21	24 PFDS	598.8 > 80	3.98e3	1.82e4	1.0000		5.40	5.37	2.74	10.10	101.0
22	25 PFDoA	612.9 > 569.0	1.89e4	1.76e4	1.0000		5.65	5.61	13.4	8.982	89.8
23	26 N-MeFOSA	512.1 > 168.9	7.83e3	2.07e4	1.0000		5.70	5.75	56.7	58.15	116.3
24	27 PFTrDA	662.9 > 618.9	2.23e4	6.58e3	1.0000		5.90	5.86	42.4	11.27	112.7
25	28 PFTeDA	712.9 > 668.8	1.14e4	6.58e3	1.0000		6.12	6.08	21.7	9.393	93.9
26	29 N-EtFOSA	526.1 > 168.9	1.01e4	3.12e4	1.0000		6.12	6.15	48.5	53.48	107.0
27	30 PFHxDA	813.1 > 768.6	6.28e3	4.80e3	1.0000		6.46	6.41	6.54	10.70	107.0
28	31 PFODA	913.1 > 868.8	8.68e3	4.80e3	1.0000		6.70	6.64	9.05	11.21	112.1
29	32 N-MeFOSE	616.1 > 58.9	1.00e4	2.52e4	1.0000		6.31	6.30	59.6	64.74	129.5
30	33 N-EtFOSE	630.1 > 58.9	1.18e4	2.97e4	1.0000		6.45	6.45	59.4	50.84	101.7
31	Work Order 180130M2-84	216.1 > 171.8	9.11e3	1.03e4	0.842	1.0000	1.30	1.33	11.0	13.12	105.0

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Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-84.qld

Last Altered: Wednesday, January 31, 2018 11:09:39 Pacific Standard Time

Printed: Wednesday, January 31, 2018 11:11:02 Pacific Standard Time

Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909

#	Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C3-PFPeA	266. > 221.8	1.55e4	1.85e4	0.870	1.0000	2.27	2.28	10.5	12.04	96.4
33	36 13C3-PFBS	302. > 98.8	2.10e3	1.85e4	0.109	1.0000	2.56	2.55	1.42	13.00	104.0
34	37 13C2-PFHxA	315 > 269.8	5.20e3	1.85e4	0.684	1.0000	3.05	3.05	3.52	5.150	103.0
35	38 13C4-PFHpA	367.2 > 321.8	1.38e4	1.85e4	0.732	1.0000	3.68	3.67	9.35	12.77	102.2
36	39 18O2-PFHxS	403.0 > 102.6	1.31e3	4.41e3	0.318	1.0000	3.80	3.82	3.70	11.61	92.9
37	40 13C2-6:2 FTS	429.1 > 408.9	3.79e3	1.50e4	0.263	1.0000	4.15	4.13	3.16	12.02	96.2
38	41 13C2-PFOA	414.9 > 369.7	1.72e4	1.50e4	1.120	1.0000	4.20	4.19	14.4	12.81	102.5
39	42 13C5-PFNA	468.2 > 422.9	1.50e4	1.73e4	0.921	1.0000	4.65	4.62	10.8	11.78	94.3
40	43 13C8-PFOSA	506.1 > 77.7	4.07e3	2.00e4	0.245	1.0000	4.70	4.69	2.55	10.41	83.2
41	44 13C8-PFOS	507.0 > 79.9	3.54e3	3.88e3	1.034	1.0000	4.75	4.71	11.4	11.02	88.2
42	45 13C2-PFDA	515.1 > 469.9	1.53e4	1.42e4	1.080	1.0000	5.03	5.00	13.5	12.46	99.7
43	46 13C2-8:2 FTS	529.1 > 508.7	3.01e3	1.85e4	0.165	1.0000	5.00	4.97	2.04	12.36	98.9
44	47 d3-N-MeFOSAA	573.3 > 419	7.13e3	2.00e4	0.398	1.0000	5.20	5.15	4.46	11.21	89.7
45	48 d5-N-EtFOSAA	589.3 > 419	7.81e3	2.00e4	0.425	1.0000	5.30	5.31	4.88	11.49	91.9
46	49 13C2-PFUdA	565 > 519.8	1.82e4	2.00e4	1.047	1.0000	5.36	5.33	11.4	10.86	86.9
47	50 13C2-PFDoA	615.0 > 569.7	1.76e4	2.00e4	0.805	1.0000	5.65	5.61	11.0	13.68	109.4
48	51 d3-N-MeFOSA	515.2 > 168.9	2.07e4	2.00e4	0.104	1.0000	5.70	5.78	12.9	125.0	83.3
49	52 13C2-PFTeDA	714.8 > 669.6	6.58e3	2.00e4	0.367	1.0000	6.12	6.08	4.12	11.21	89.7
50	53 d5-N-ETFOSA	531.1 > 168.9	3.12e4	2.00e4	0.155	1.0000	6.25	6.17	19.5	126.2	84.2
51	54 13C2-PFHxDA	815 > 769.7	4.80e3	2.00e4	0.721	1.0000	6.46	6.41	3.00	4.158	83.2
52	55 d7-N-MeFOSE	623.1 > 58.9	2.52e4	2.00e4	0.143	1.0000	6.31	6.29	15.8	110.5	73.7
53	56 d9-N-EtFOSE	639.2 > 58.8	2.97e4	2.00e4	0.133	1.0000	6.12	6.44	18.6	140.2	93.4
54	57 13C4-PFBA	217. > 171.8	1.03e4	1.03e4	1.000	1.0000	1.30	1.32	12.5	12.50	100.0
55	58 13C5-PFHxA	318 > 272.9	1.85e4	1.85e4	1.000	1.0000	3.05	3.05	12.5	12.50	100.0
56	59 13C3-PFHxS	401.9 > 79.9	4.41e3	4.41e3	1.000	1.0000	3.80	3.82	12.5	12.50	100.0
57	60 13C8-PFOA	421.3 > 376	1.50e4	1.50e4	1.000	1.0000	4.20	4.19	12.5	12.50	100.0
58	61 13C9-PFNA	472.2 > 426.9	1.73e4	1.73e4	1.000	1.0000	4.65	4.62	12.5	12.50	100.0
59	62 13C4-PFOS	503 > 79.9	3.88e3	3.88e3	1.000	1.0000	4.60	4.71	12.5	12.50	100.0
60	63 13C6-PFDA	519.1 > 473.7	1.42e4	1.42e4	1.000	1.0000	5.03	5.00	12.5	12.50	100.0
61	64 13C7-PFUdA	570.1 > 524.8	2.00e4	2.00e4	1.000	1.0000	5.36	5.33	12.5	12.50	100.0
62	72 13C2-4:2 FTS	329.2>308.9	4.12e3	1.85e4	0.275	1.0000	2.93	2.96	2.79	10.15	81.2

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Dataset: Untitled

Last Altered: Wednesday, January 31, 2018 12:54:14 Pacific Standard Time

Printed: Wednesday, January 31, 2018 12:54:34 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 09:53:30

Calibration: F:\Projects\PFAS.PRO\CurveDB\IC18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180130M2_1	IPA	30-Jan-18	11:33:07
2	180130M2_2	ST180130M2-1 PFC CS-2 18A1904	30-Jan-18	11:44:38
3	180130M2_3	ST180130M2-2 PFC CS-1 18A1905	30-Jan-18	11:56:07
4	180130M2_4	ST180130M2-3 PFC CS0 18A1906	30-Jan-18	12:07:36
5	180130M2_5	ST180130M2-4 PFC CS1 18A1907	30-Jan-18	12:19:06
6	180130M2_6	ST180130M2-5 PFC CS2 18A1908	30-Jan-18	12:30:35
7	180130M2_7	ST180130M2-6 PFC CS3 18A1909	30-Jan-18	12:42:05
8	180130M2_8	ST180130M2-7 PFC CS4 18A1910	30-Jan-18	12:53:35
9	180130M2_9	ST180130M2-8 PFC CS5 18A1911	30-Jan-18	13:05:04
10	180130M2_10	ST180130M2-9 PFC CS6 18A2403	30-Jan-18	13:16:34
11	180130M2_11	ST180130M2-10 PFC CS7 18A2404	30-Jan-18	13:28:04
12	180130M2_12	IPA	30-Jan-18	13:39:34
13	180130M2_13	ICV180130M2-1 PFC ICV 18A1903	30-Jan-18	13:51:03
14	180130M2_14	IPA	30-Jan-18	14:02:33
15	180130M2_15	1800188-02 REEPDW133FRB 0.11579	30-Jan-18	14:14:05
16	180130M2_16	1800204-03 REEPDW137 0.11904	30-Jan-18	14:25:29
17	180130M2_17	1800204-07 REEPDW513 0.11719	30-Jan-18	14:36:56
18	180130M2_18	B8A0173-BLK1 Method Blank 0.125	30-Jan-18	14:48:23
19	180130M2_19	B8A0173-BS1 OPR 0.125	30-Jan-18	14:59:50
20	180130M2_20	B8A0173-BS2 OPR 0.125	30-Jan-18	15:11:16
21	180130M2_21	B8A0173-BS3 OPR 0.125	30-Jan-18	15:22:44
22	180130M2_22	B8A0173-BS4 OPR 0.125	30-Jan-18	15:34:10
23	180130M2_23	B8A0070-BS1 OPR 0.25	30-Jan-18	15:45:37
24	180130M2_24	B8A0070-BLK1 Method Blank 0.25	30-Jan-18	15:57:07
25	180130M2_25	1800010-01 PFAS Ground Water_Surface Wate...	30-Jan-18	16:08:37
26	180130M2_26	IPA	30-Jan-18	16:20:04
27	180130M2_27	B8A0054-BS1 OPR 1	30-Jan-18	16:31:30
28	180130M2_28	B8A0054-BLK1 Method Blank 1	30-Jan-18	16:42:57
29	180130M2_29	1800011-01 PFAS in Soil Lot#122917C2 1	30-Jan-18	16:54:27
30	180130M2_30	B8A0115-MS1 Matrix Spike 0.25673	30-Jan-18	17:05:57
31	180130M2_31	B8A0115-MSD1@10X Matrix Spike Dup 0.25042	30-Jan-18	17:17:24

Dataset: Untitled

Last Altered: Wednesday, January 31, 2018 12:54:14 Pacific Standard Time

Printed: Wednesday, January 31, 2018 12:54:34 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	180130M2_32	1800121-02 EB01-20180115 0.25066	30-Jan-18	17:28:54
33	180130M2_33	1800121-04 IRSite5-GW-05W06-20180115 0.2...	30-Jan-18	17:40:22
34	180130M2_34	1800121-06 IRSite5-GW-05W01-20180115 0.2...	30-Jan-18	17:51:52
35	180130M2_35	1800121-07 IRSite5-GW-05W03-20180115 0.2...	30-Jan-18	18:03:22
36	180130M2_36	1800121-08 UXOSite14-GW-DPW79A-2018011...	30-Jan-18	18:14:48
37	180130M2_37	1800121-09 UXOSite14-GW-DPW78A-2018011...	30-Jan-18	18:26:15
38	180130M2_38	1800121-10 UXOSite14-GW-DPW77A-2018011...	30-Jan-18	18:37:42
39	180130M2_39	IPA	30-Jan-18	18:49:09
40	180130M2_40	ST180130M2-11 PFC CS3 18A1909	30-Jan-18	19:00:38
41	180130M2_41	IPA	30-Jan-18	19:12:08
42	180130M2_42	1800121-11 IRSite1-GW-01W48A -20180115 0....	30-Jan-18	19:23:37
43	180130M2_43	1800121-12 IRSite1-GW-01W49A- 20180115 0....	30-Jan-18	19:35:04
44	180130M2_44	1800121-13 IRSite1-GW-01W13A- 20180115 0....	30-Jan-18	19:46:34
45	180130M2_45	1800121-14 DUP01-20180115 0.26578	30-Jan-18	19:58:03
46	180130M2_46	1800132-14 PITTS-EB-011118-1400 0.12081	30-Jan-18	20:09:34
47	180130M2_47	B8A0140-BS1 OPR 0.25	30-Jan-18	20:21:00
48	180130M2_48	B8A0140-BSD1 LCSD 0.25	30-Jan-18	20:32:30
49	180130M2_49	B8A0140-BLK1 Method Blank 0.25	30-Jan-18	20:44:00
50	180130M2_50	1800127-01 EB02-20180116 0.27074	30-Jan-18	20:55:29
51	180130M2_51	1800127-02 IRSite1-GW-01W53A-20180116 0....	30-Jan-18	21:06:58
52	180130M2_52	1800127-03 IRSite1-GW-MW80A-20180116 0.2...	30-Jan-18	21:18:25
53	180130M2_53	1800127-04 IRSite1-GW-01W28B-20180116 0....	30-Jan-18	21:29:51
54	180130M2_54	1800127-05 IRSite1-GW-01W38AR-20180116 ...	30-Jan-18	21:41:18
55	180130M2_55	1800127-06 IRSite1-GW-MW86A-20180116 0.2...	30-Jan-18	21:52:45
56	180130M2_56	1800127-07 IRSite1-GW-MW85A-20180116 0.2...	30-Jan-18	22:04:12
57	180130M2_57	1800127-08 DUP02-20180116 0.25425	30-Jan-18	22:15:39
58	180130M2_58	1800127-09 IRSite1-GW-MW82A-20180116 0.2...	30-Jan-18	22:27:06
59	180130M2_59	IPA	30-Jan-18	22:38:33
60	180130M2_60	ST180130M2-12 PFC CS0 18A1906	30-Jan-18	22:50:01
61	180130M2_61	IPA	30-Jan-18	23:01:30
62	180130M2_62	1800139-01 LH-TAP 0.27467	30-Jan-18	23:13:00
63	180130M2_63	1800139-02 LH-RAW 0.27394	30-Jan-18	23:24:27
64	180130M2_64	1701953-01@10X CV-Dup09-20171213 0.2568	30-Jan-18	23:35:57
65	180130M2_65	1701953-10@10X SA-PZ118S-20171213 0.235...	30-Jan-18	23:47:26

Dataset: Untitled

Last Altered: Wednesday, January 31, 2018 12:54:14 Pacific Standard Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	180130M2_66	IPA	30-Jan-18	23:58:55
67	180130M2_67	B7L0136-BLK1 Method Blank 0.0075	31-Jan-18	00:10:22
68	180130M2_68	B7L0136-BS1 OPR 0.0075	31-Jan-18	00:21:50
69	180130M2_69	B7L0136-BS2 OPR 0.0075	31-Jan-18	00:33:19
70	180130M2_70	B7L0136-BS3 OPR 0.0075	31-Jan-18	00:44:49
71	180130M2_71	B7L0136-BS4 OPR 0.0075	31-Jan-18	00:56:18
72	180130M2_72	B7L0140-BS1 OPR 0.0075	31-Jan-18	01:07:47
73	180130M2_73	B7L0140-BSD1 LCSD 0.0075	31-Jan-18	01:19:13
74	180130M2_74	B7L0140-BLK1 Method Blank 0.0075	31-Jan-18	01:30:42
75	180130M2_75	1701882-02RE1 WI-A06-6-I-01-1217-TOP 0.0075	31-Jan-18	01:42:11
76	180130M2_76	1701882-04RE1 WI-A06-EB01-120517-TOP 0....	31-Jan-18	01:53:42
77	180130M2_77	1701882-06RE1 WI-A06-EB02-120517-TOP 0....	31-Jan-18	02:05:12
78	180130M2_78	1701882-08RE1 WI-A06-EFF01-1217-TOP 0.0...	31-Jan-18	02:16:41
79	180130M2_79	1701882-10RE1 WI-A06-EFF01P-1217-TOP 0....	31-Jan-18	02:28:08
80	180130M2_80	1701882-12RE1 WI-A06-INF01-1217-TOP 0.00...	31-Jan-18	02:39:37
81	180130M2_81	1701882-14RE1 WI-A06-P-4-1217-TOP 0.0075	31-Jan-18	02:51:06
82	180130M2_82	1701882-16RE1 WI-A06-6-I-03-1217-TOP 0.0075	31-Jan-18	03:02:33
83	180130M2_83	IPA	31-Jan-18	03:14:03
84	180130M2_84	ST180130M2-13 PFC CS3 18A1909	31-Jan-18	03:25:32
85	180130M2_85	IPA	31-Jan-18	03:37:02
86	180130M2_86	B8A0165-BS1 OPR 0.25	31-Jan-18	03:48:35
87	180130M2_87	B8A0165-BSD1 LCSD 0.25	31-Jan-18	03:59:59
88	180130M2_88	B8A0165-BLK1 Method Blank 0.25	31-Jan-18	04:11:26
89	180130M2_89	1800186-01 REEPDW132 0.12041	31-Jan-18	04:22:53
90	180130M2_90	1800186-02 REEPDW133 0.12113	31-Jan-18	04:34:22
91	180130M2_91	1800186-03 REEPDW134 0.12099	31-Jan-18	04:45:52
92	180130M2_92	1800196-01 GW1519180119RAP 0.26117	31-Jan-18	04:57:21
93	180130M2_93	1800196-02 GW2529180119RAP 0.26519	31-Jan-18	05:08:48
94	180130M2_94	1800196-03 GW3539180119RAP 0.26249	31-Jan-18	05:20:17
95	180130M2_95	1800207-01 SPLP Solution #1	31-Jan-18	05:31:47
96	180130M2_96	1800207-02 SPLP Solution #2	31-Jan-18	05:43:14
97	180130M2_97	1800207-03 TCLP Solution #1 0.12117	31-Jan-18	05:54:41
98	180130M2_98	1800207-04 TCLP Solution #2 0.12163	31-Jan-18	06:06:08
99	180130M2_99	IPA	31-Jan-18	06:17:37

Dataset: Untitled

Last Altered: Wednesday, January 31, 2018 12:54:14 Pacific Standard Time

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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
100	180130M2_100	ST180130M2-14 PFC CS3 18A1909	31-Jan-18	06:29:06
101	180130M2_101	IPA	31-Jan-18	06:40:36
102	180130M2_102	B8A0119-BS1 OPR 1	31-Jan-18	06:52:05
103	180130M2_103	B8A0119-BLK1 Method Blank 1	31-Jan-18	07:03:32
104	180130M2_104	B8A0119-MS1 Matrix Spike 1.23	31-Jan-18	07:14:59
105	180130M2_105	B8A0119-MSD1 Matrix Spike Dup 1.13	31-Jan-18	07:26:25
106	180130M2_106	1800098-01 MINNE-09-SB01-010818-00-02 1.16	31-Jan-18	07:37:52
107	180130M2_107	1800098-02 MINNE-09-SB01-010818-16-18 1.17	31-Jan-18	07:49:22
108	180130M2_108	1800098-03 MINNE-09-SB03-010818-01-02 1.21	31-Jan-18	08:00:51
109	180130M2_109	1800098-04 MINNE-09-SB03-010818-15-17 1.13	31-Jan-18	08:12:21
110	180130M2_110	1800098-05 MINNE-10-SB01-010818-00-02 1.3	31-Jan-18	08:23:50
111	180130M2_111	1800098-06 MINNE-10-SB01-010818-09-11 1.13	31-Jan-18	08:35:17
112	180130M2_112	1800098-07 MINNE-10-SB03-010818-00-02 1.29	31-Jan-18	08:46:43
113	180130M2_113	1800098-08 MINNE-10-SB03-010818-15-16 1.22	31-Jan-18	08:58:11
114	180130M2_114	1800098-09 MINNE-10-SB04-010818-01-02 1.16	31-Jan-18	09:09:38
115	180130M2_115	1800098-11 MINNE-SO-DUP01-010818 1.18	31-Jan-18	09:21:06
116	180130M2_116	IPA	31-Jan-18	09:32:33
117	180130M2_117	ST180130M2-15 PFC CS0 18A1906	31-Jan-18	09:44:03
118	180130M2_118	IPA	31-Jan-18	09:55:31
119	180130M2_119	1800098-12 MINNE-SO-DUP02-010818 1.13	31-Jan-18	10:07:01
120	180130M2_120	1800099-01 MINNE-08-SB03-010818-01-02 1.16	31-Jan-18	10:20:17
121	180130M2_121	1800099-02 MINNE-08-SB03-010818-15-17 1.17	31-Jan-18	10:31:40
122	180130M2_122	1800099-03 MINNE-10-SB02-010918-00-02 1.11	31-Jan-18	10:43:07
123	180130M2_123	1800099-04 MINNE-10-SB02-010918-15-17 1.15	31-Jan-18	10:54:34
124	180130M2_124	1800099-05 MINNE-10-SB04-010818-16-18 1.18	31-Jan-18	11:06:01
125	180130M2_125	IPA	31-Jan-18	11:17:30
126	180130M2_126	B8A0148-BS1 OPR 1	31-Jan-18	11:28:58
127	180130M2_127	B8A0148-BLK1 Method Blank 1	31-Jan-18	11:40:29
128	180130M2_128	1800193-01 CANGPFOS20180122 1.11	31-Jan-18	11:51:57
129	180130M2_129	IPA	31-Jan-18	12:03:26
130	180130M2_130	ST180130M2-16 PFC CS3 18A1909	31-Jan-18	12:14:57
131	180130M2_131	IPA	31-Jan-18	12:26:23

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-84.qld

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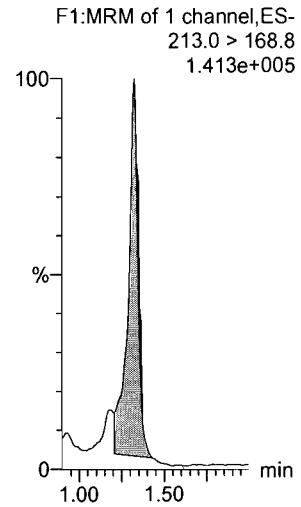
Printed: Wednesday, January 31, 2018 11:11:02 Pacific Standard Time

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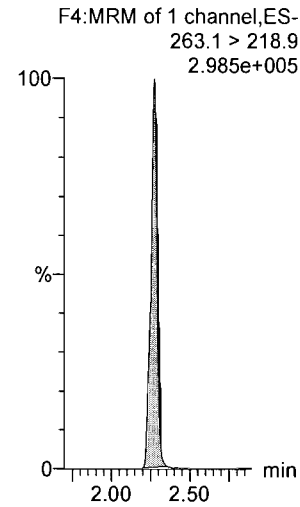
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909

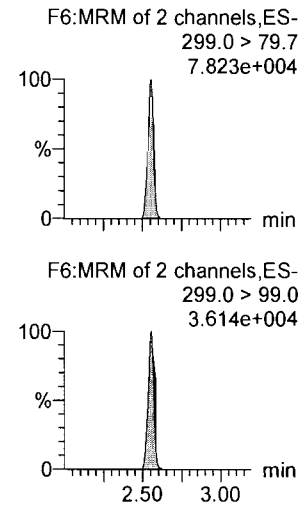
PFBA



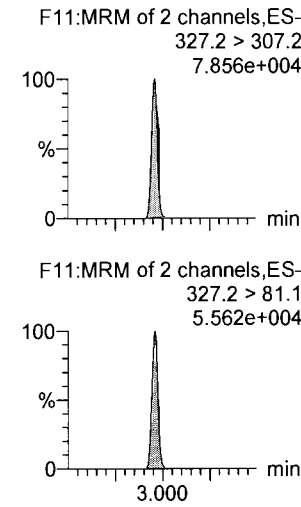
PFPeA



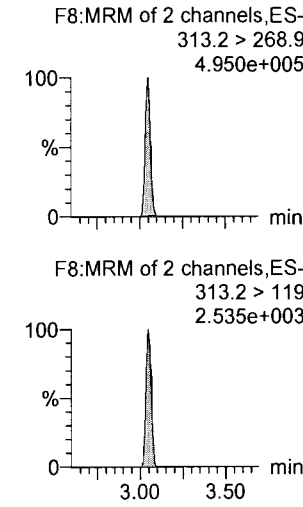
PFBS



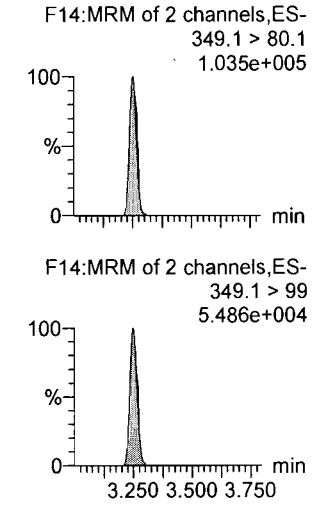
4:2 FTS



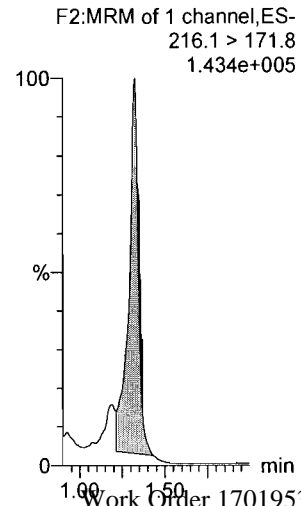
PFHxA



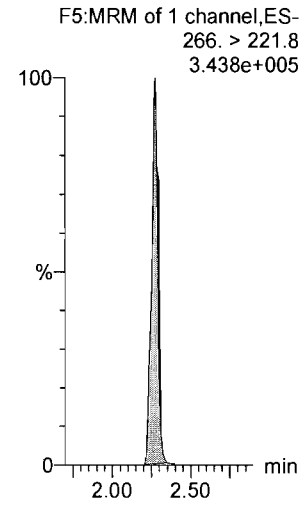
PFPeS



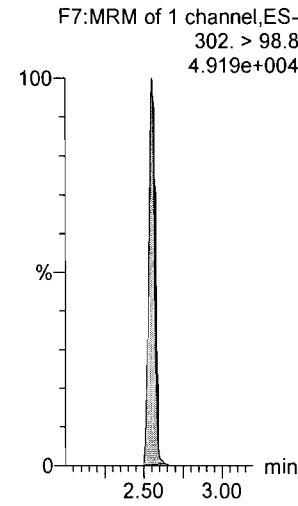
13C3-PFBA



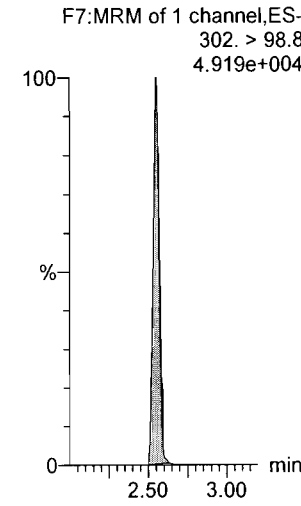
13C3-PFPeA



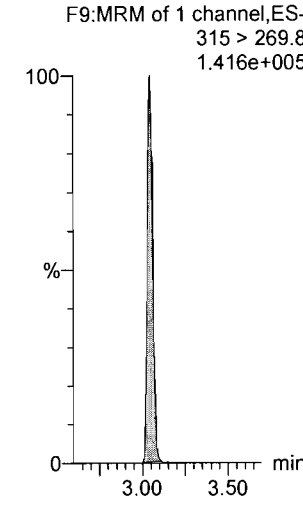
13C3-PFBS



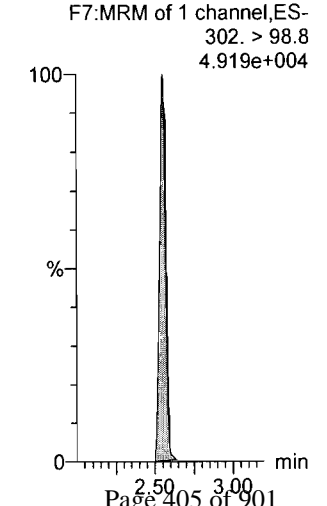
13C3-PFBS



13C2-PFHxA



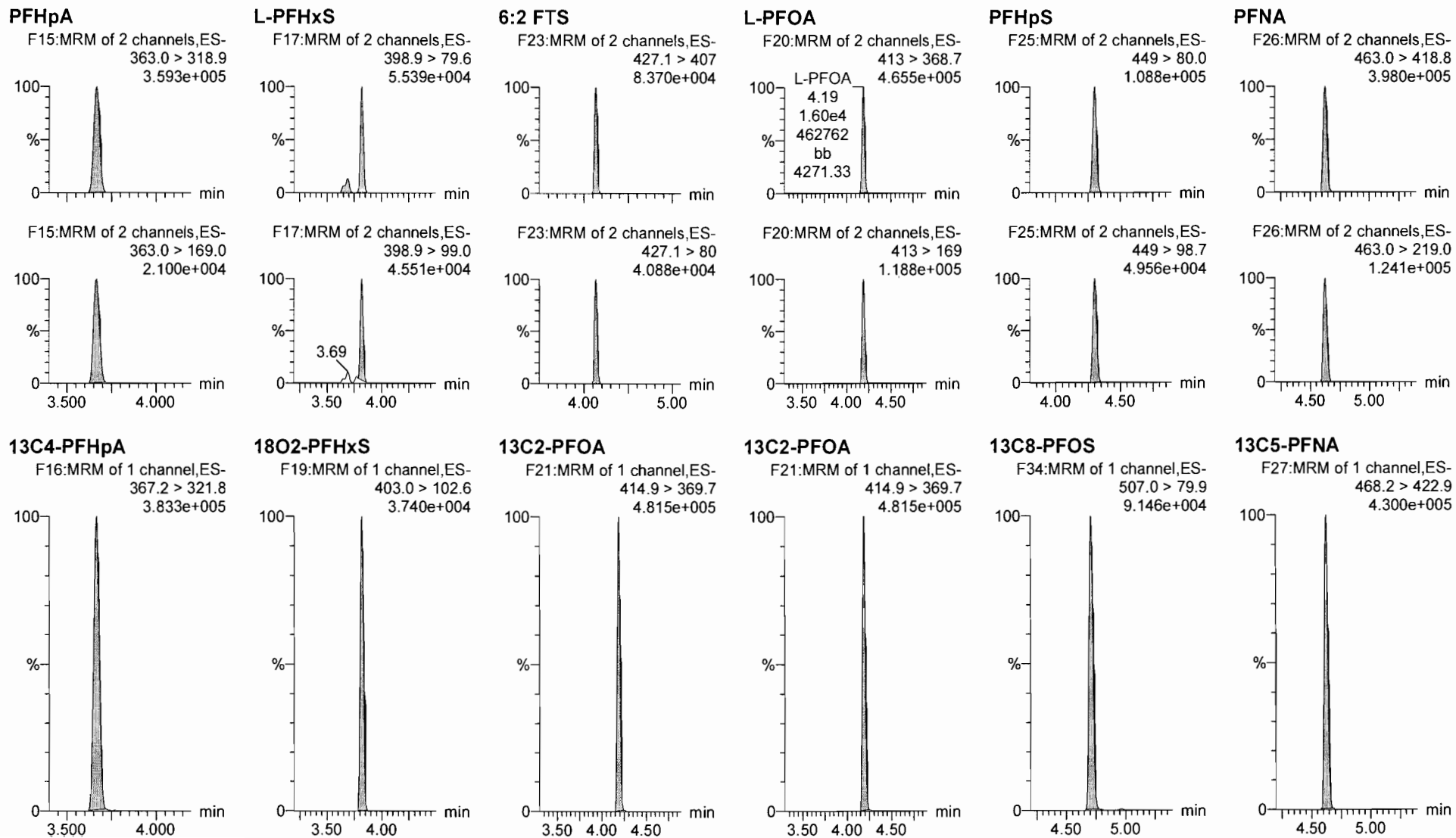
13C3-PFBS



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-84.qld

Last Altered: Wednesday, January 31, 2018 11:09:39 Pacific Standard Time
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Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909

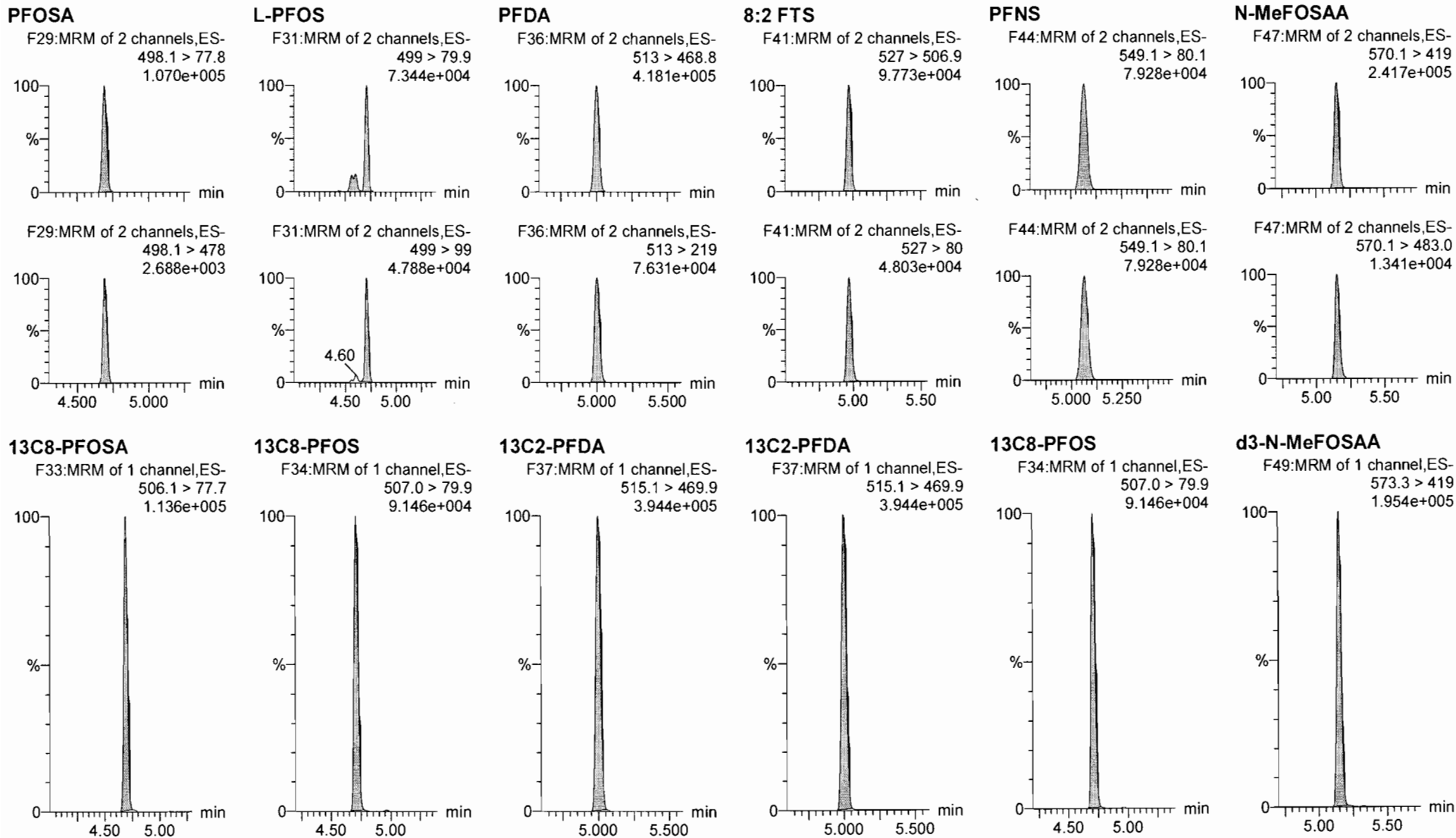


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Last Altered: Wednesday, January 31, 2018 11:09:39 Pacific Standard Time

Printed: Wednesday, January 31, 2018 11:11:02 Pacific Standard Time

Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909



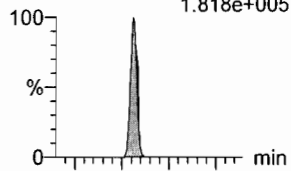
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Last Altered: Wednesday, January 31, 2018 11:09:39 Pacific Standard Time
Printed: Wednesday, January 31, 2018 11:11:02 Pacific Standard Time

Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909

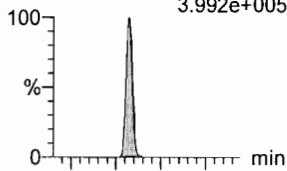
N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
1.818e+005



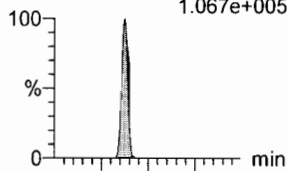
PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
3.992e+005



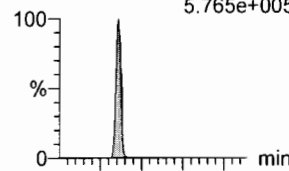
PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
1.067e+005



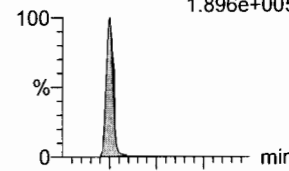
PFDoA

F53:MRM of 4 channels,ES-
612.9 > 569.0
5.765e+005



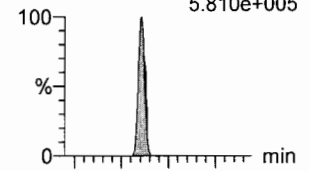
N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
1.896e+005

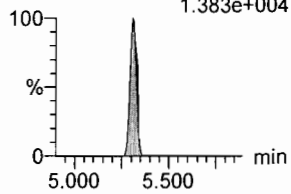


PFTTrDA

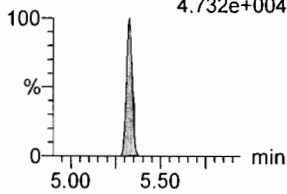
F59:MRM of 2 channels,ES-
662.9 > 618.9
5.810e+005



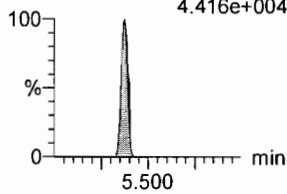
F50:MRM of 2 channels,ES-
584.2 > 483.0
1.383e+004



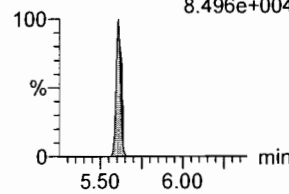
F45:MRM of 2 channels,ES-
563.0 > 269
4.732e+004



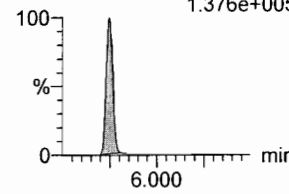
F52:MRM of 2 channels,ES-
598.8 > 98.7
4.416e+004



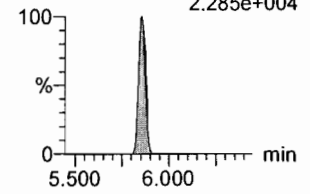
F53:MRM of 4 channels,ES-
612.9 > 318.8
8.496e+004



F35:MRM of 2 channels,ES-
512.1 > 219
1.376e+005

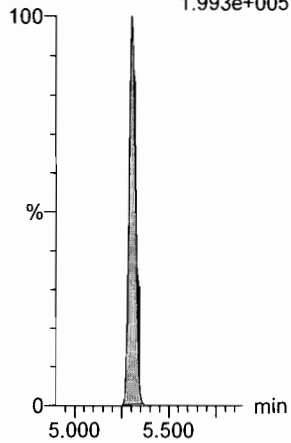


F59:MRM of 2 channels,ES-
662.9 > 319
2.285e+004



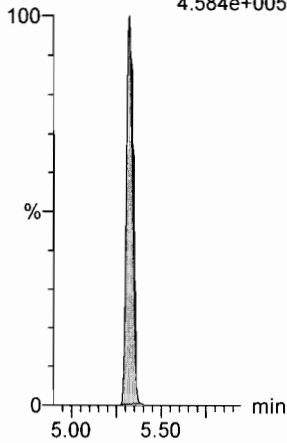
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.993e+005



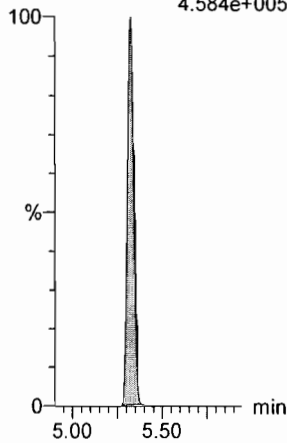
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
4.584e+005



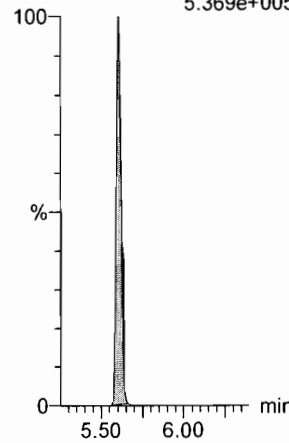
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
4.584e+005



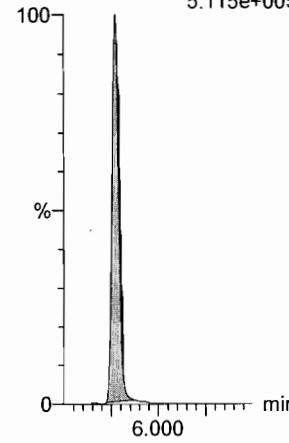
13C2-PFDoA

F54:MRM of 2 channels,ES-
615.0 > 569.7
5.369e+005



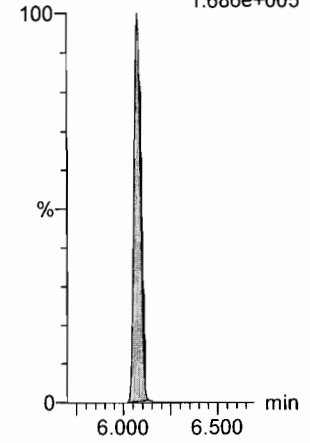
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
5.115e+005



13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.686e+005

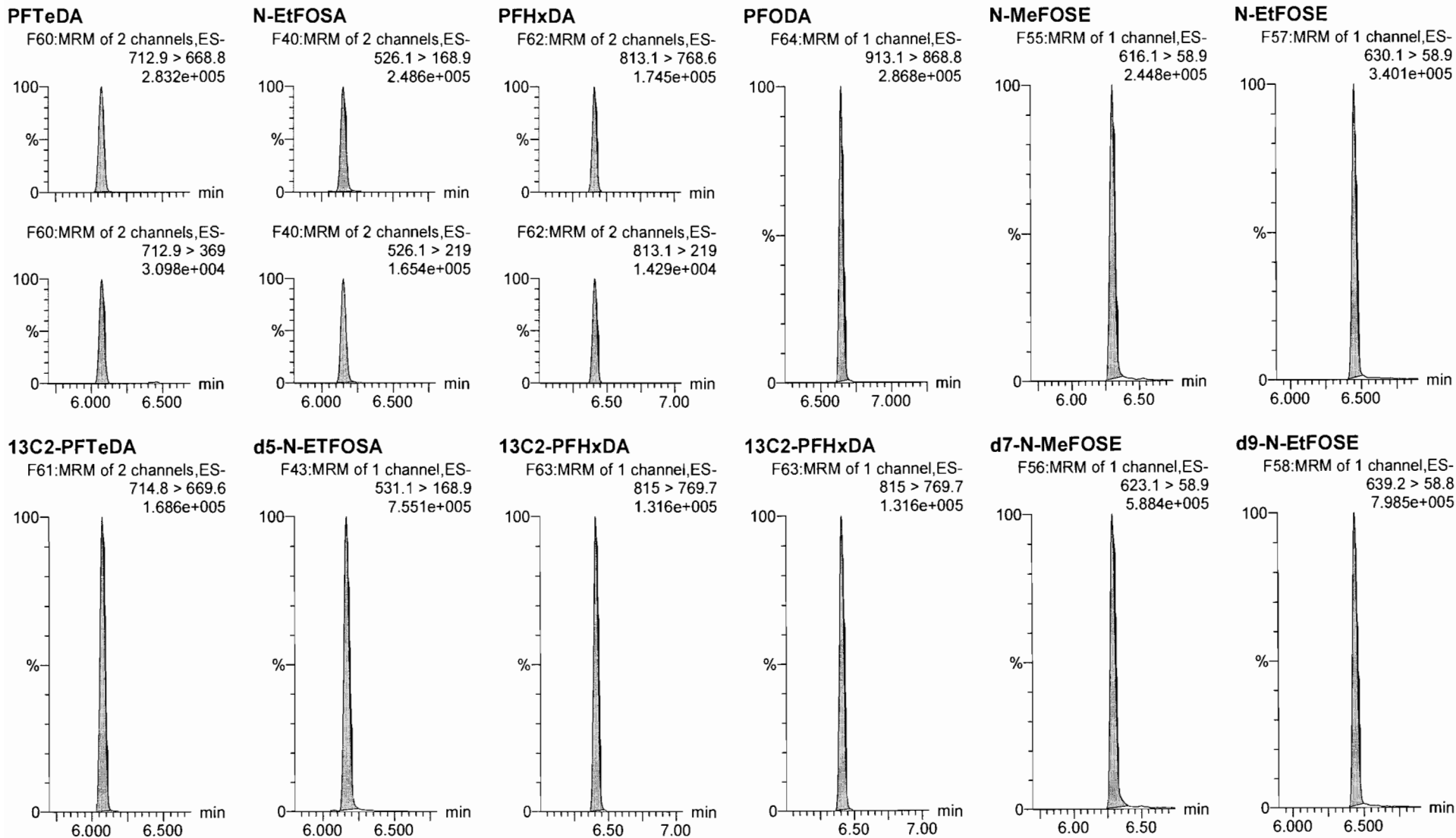


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Last Altered: Wednesday, January 31, 2018 11:09:39 Pacific Standard Time

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Name: 180130M2_84, Date: 31-Jan-2018, Time: 03:25:32, ID: ST180130M2-13 PFC CS3 18A1909, Description: PFC CS3 18A1909



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-84.qld

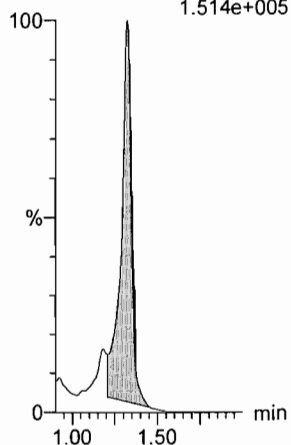
Last Altered: Wednesday, January 31, 2018 11:09:39 Pacific Standard Time

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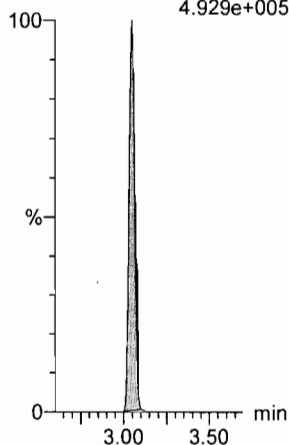
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.514e+005



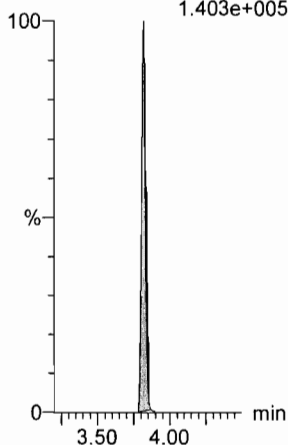
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.929e+005



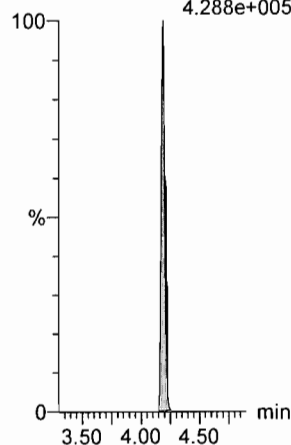
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
1.403e+005



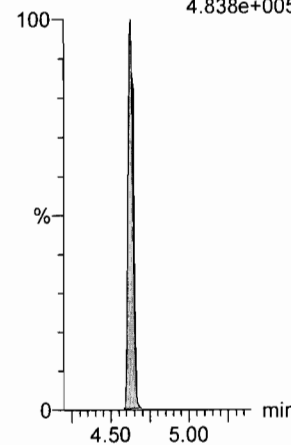
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
4.288e+005



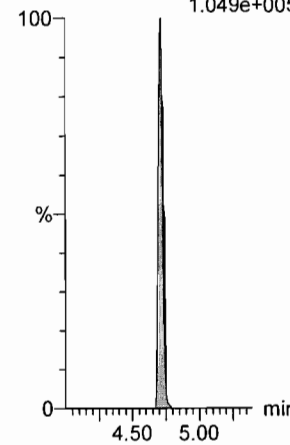
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
4.838e+005



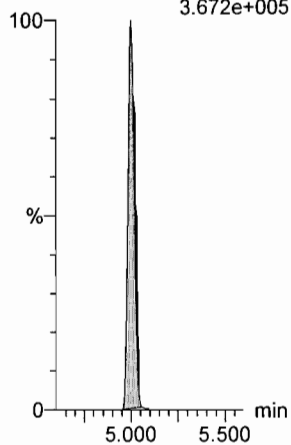
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
1.049e+005



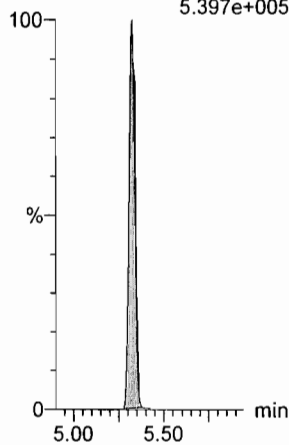
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
3.672e+005



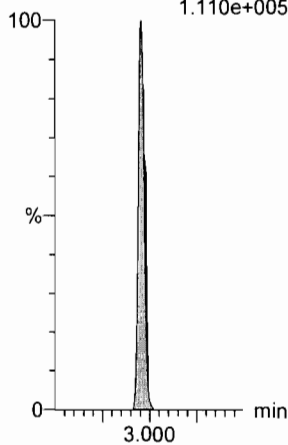
13C7-PFUDa

F48:MRM of 1 channel,ES-
570.1 > 524.8
5.397e+005



13C2-4:2 FTS

F12:MRM of 1 channel,ES-
329.2 > 308.9
1.110e+005



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

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

PFDS < 70% in ICV.

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

Calibration: U:\Q4.PRO\CurveDB\IC18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

DC
1/16/18

Compound name: PFBA

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

Calibration curve: $1.33977 * x + -0.0328732$

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

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

JHA-01/16/2018

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

Compound name: PFPeA

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

Calibration curve: $1.15515 * x + -0.0327357$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	2.48	169.733	8868.418	0.239	0.2	-5.8	NO	0.996	NO	MM
2	2 180115M2_2	Standard	0.500	2.48	456.397	10441.303	0.546	0.5	0.3	NO	0.996	NO	MM
3	3 180115M2_3	Standard	1.000	2.48	1148.539	13027.811	1.102	1.0	-1.8	NO	0.996	NO	MM
4	4 180115M2_4	Standard	2.000	2.48	2044.792	11372.540	2.248	2.0	-1.3	NO	0.996	NO	MM
5	5 180115M2_5	Standard	5.000	2.48	5892.852	11971.679	6.153	5.4	7.1	NO	0.996	NO	MM
6	6 180115M2_6	Standard	10.000	2.48	12361.923	12510.149	12.352	10.7	7.2	NO	0.996	NO	MM
7	7 180115M2_7	Standard	50.000	2.48	46897.496	11201.616	52.333	45.3	-9.3	NO	0.996	NO	MM
8	8 180115M2_8	Standard	100.000	2.48	99353.172	10375.532	119.696	103.6	3.6	NO	0.996	NO	MM

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Compound name: PFBS

Coefficient of Determination: $R^2 = 0.996395$

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	2.75	57.475	1196.924	0.600	0.2	-25.6	NO	0.996	NO	MM
2	180115M2_2	Standard	0.500	2.75	97.312	1206.778	1.008	0.4	-18.9	NO	0.996	NO	bb
3	180115M2_3	Standard	1.000	2.75	267.604	1442.793	2.318	1.1	10.9	NO	0.996	NO	bb
4	180115M2_4	Standard	2.000	2.75	456.564	1290.825	4.421	2.2	11.7	NO	0.996	NO	bb
5	180115M2_5	Standard	5.000	2.74	1258.317	1432.762	10.978	5.7	14.3	NO	0.996	NO	bb
6	180115M2_6	Standard	10.000	2.75	2824.915	1624.717	21.734	11.3	13.3	NO	0.996	NO	bb
7	180115M2_7	Standard	50.000	2.75	9832.006	1307.205	94.017	46.4	-7.2	NO	0.996	NO	bb
8	180115M2_8	Standard	100.000	2.74	21516.695	1197.229	224.651	101.4	1.4	NO	0.996	NO	bb

Compound name: PFHxA

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

Calibration curve: $1.75438 * x + 0.0169924$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	3.25	306.921	2798.348	0.548	0.3	21.2	NO	0.993	NO	bb
2	180115M2_2	Standard	0.500	3.25	548.713	3301.620	0.831	0.5	-7.2	NO	0.993	NO	bb
3	180115M2_3	Standard	1.000	3.25	1388.564	4246.745	1.635	0.9	-7.8	NO	0.993	NO	bb
4	180115M2_4	Standard	2.000	3.25	2429.710	3760.921	3.230	1.8	-8.4	NO	0.993	NO	bb
5	180115M2_5	Standard	5.000	3.25	7106.033	3739.436	9.501	5.4	8.1	NO	0.993	NO	bb
6	180115M2_6	Standard	10.000	3.25	14392.021	4073.186	17.667	10.1	0.6	NO	0.993	NO	bb
7	180115M2_7	Standard	50.000	3.25	53584.609	3489.034	76.790	43.8	-12.5	NO	0.993	NO	bb
8	180115M2_8	Standard	100.000	3.24	123063.164	3308.405	185.986	106.0	6.0	NO	0.993	NO	bb

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Compound name: PFHpA

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

Calibration curve: $1.49645 * x + -0.0592287$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	3.87	179.873	7169.426	0.314	0.2	-0.3	NO	0.995	NO	bb
2	180115M2_2	Standard	0.500	3.87	469.863	8300.460	0.708	0.5	2.5	NO	0.995	NO	bb
3	180115M2_3	Standard	1.000	3.87	1139.616	10064.894	1.415	1.0	-1.5	NO	0.995	NO	bb
4	180115M2_4	Standard	2.000	3.87	2080.912	8890.794	2.926	2.0	-0.3	NO	0.995	NO	bb
5	180115M2_5	Standard	5.000	3.87	5066.119	8790.349	7.204	4.9	-2.9	NO	0.995	NO	bb
6	180115M2_6	Standard	10.000	3.87	12529.151	9715.788	16.120	10.8	8.1	NO	0.995	NO	bb
7	180115M2_7	Standard	50.000	3.87	47028.797	8726.845	67.362	45.1	-9.9	NO	0.995	NO	bb
8	180115M2_8	Standard	100.000	3.86	101713.539	8149.912	156.004	104.3	4.3	NO	0.995	NO	bb

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.999726$

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	4.01	38.643	793.087	0.609	0.3	8.2	NO	1.000	NO	MM
2	180115M2_2	Standard	0.500	4.02	85.314	971.136	1.098	0.5	0.6	NO	1.000	NO	MM
3	180115M2_3	Standard	1.000	4.01	182.145	1035.130	2.200	1.0	2.9	NO	1.000	NO	MM
4	180115M2_4	Standard	2.000	4.01	349.074	1074.646	4.060	1.9	-3.8	NO	1.000	NO	MM
5	180115M2_5	Standard	5.000	4.01	873.617	1083.133	10.082	4.9	-2.2	NO	1.000	NO	MM
6	180115M2_6	Standard	10.000	4.01	1964.532	1211.424	20.271	10.2	1.6	NO	1.000	NO	MM
7	180115M2_7	Standard	50.000	4.01	6470.750	1067.766	75.751	50.0	-0.1	NO	1.000	NO	MM
8	180115M2_8	Standard	100.000	4.01	14751.116	1041.940	176.967			NO	1.000	NO	MMXI

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.995384$

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	4.32	28.815	793.087	0.454	0.2	-21.1	NO	0.995	NO	MM
2	2 180115M2_2	Standard	0.500	4.34	118.251	971.136	1.522	0.6	12.5	NO	0.995	NO	bb
3	3 180115M2_3	Standard	1.000	4.34	221.274	1035.130	2.672	1.0	-4.4	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	4.33	430.245	1074.646	5.004	1.8	-12.2	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	4.32	1149.229	1083.133	13.263	4.6	-7.9	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	4.33	3333.318	1211.424	34.395	12.0	20.3	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	4.33	10895.729	1067.766	127.553	47.3	-5.4	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	4.32	20578.084	1041.940	246.872	101.4	1.4	NO	0.995	NO	bb

Compound name: L-PFOA

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

Calibration curve: $1.11967 * x + 0.355683$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	4.38	600.230	11129.100	0.674	0.3	13.8	NO	0.995	NO	bb
2	2 180115M2_2	Standard	0.500	4.39	831.124	12054.782	0.862	0.5	-9.6	NO	0.995	NO	bb
3	3 180115M2_3	Standard	1.000	4.39	1444.660	13949.129	1.295	0.8	-16.1	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	4.38	2614.963	13294.508	2.459	1.9	-6.1	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	4.38	6889.996	12417.951	6.936	5.9	17.5	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	4.39	14997.181	15251.905	12.291	10.7	6.6	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	4.38	52255.660	12829.036	50.915	45.2	-9.7	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	4.38	105739.719	11359.297	116.358	103.6	3.6	NO	0.995	NO	bb

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Compound name: PFHpS

Coefficient of Determination: R² = 0.998980

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	4.49	37.480	11129.100	0.042	0.2	-3.3	NO	0.999	NO	MM
2	2 180115M2_2	Standard	0.500	4.49	130.063	12054.782	0.135	0.6	10.7	NO	0.999	NO	bb
3	3 180115M2_3	Standard	1.000	4.49	279.276	13949.129	0.250	0.9	-5.7	NO	0.999	NO	bb
4	4 180115M2_4	Standard	2.000	4.49	558.214	13294.508	0.525	1.9	-6.3	NO	0.999	NO	bb
5	5 180115M2_5	Standard	5.000	4.48	1514.899	12417.951	1.525	5.3	6.8	NO	0.999	NO	bb
6	6 180115M2_6	Standard	10.000	4.49	3361.794	15251.905	2.755	9.8	-2.2	NO	0.999	NO	bb
7	7 180115M2_7	Standard	50.000	4.49	11679.672	12829.036	11.380	50.0	0.1	NO	0.999	NO	bb
8	8 180115M2_8	Standard	100.000	4.48	25926.199	11359.297	28.530			NO	0.999	NO	bbXI

Compound name: PFNA

Coefficient of Determination: R² = 0.998251

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	4.82	259.860	8611.178	0.377	0.3	19.1	NO	0.998	NO	bb
2	2 180115M2_2	Standard	0.500	4.82	449.605	10629.969	0.529	0.4	-18.1	NO	0.998	NO	bb
3	3 180115M2_3	Standard	1.000	4.82	1316.261	11370.316	1.447	1.1	8.8	NO	0.998	NO	bb
4	4 180115M2_4	Standard	2.000	4.81	2082.001	11056.825	2.354	1.8	-12.2	NO	0.998	NO	bb
5	5 180115M2_5	Standard	5.000	4.81	6798.414	13849.589	6.136	4.5	-9.3	NO	0.998	NO	bb
6	6 180115M2_6	Standard	10.000	4.81	15373.284	12422.833	15.469	11.3	13.4	NO	0.998	NO	bb
7	7 180115M2_7	Standard	50.000	4.81	56579.699	10235.261	69.099	48.9	-2.2	NO	0.998	NO	bb
8	8 180115M2_8	Standard	100.000	4.81	119351.391	10065.815	148.214	100.4	0.4	NO	0.998	NO	bb

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Compound name: PFOSA

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

Calibration curve: $1.2051 * x + -0.0242098$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	4.87	37.636	2018.146	0.233	0.2	-14.6	NO	0.999	NO	MM
2	180115M2_2	Standard	0.500	4.88	105.176	2450.537	0.536	0.5	-6.9	NO	0.999	NO	bb
3	180115M2_3	Standard	1.000	4.88	323.306	3263.926	1.238	1.0	4.8	NO	0.999	NO	bb
4	180115M2_4	Standard	2.000	4.88	552.892	2580.329	2.678	2.2	12.1	NO	0.999	NO	bb
5	180115M2_5	Standard	5.000	4.87	1393.146	2747.783	6.338	5.3	5.6	NO	0.999	NO	bb
6	180115M2_6	Standard	10.000	4.88	3058.177	3176.006	12.036	10.0	0.1	NO	0.999	NO	bb
7	180115M2_7	Standard	50.000	4.88	11742.631	2461.930	59.621	49.5	-1.0	NO	0.999	NO	bb
8	180115M2_8	Standard	100.000	4.87	25960.203	1976.078	164.215	136.3	36.3	NO	0.999	NO	bbX

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.997719$

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	4.89	39.696	2273.944	0.218	0.2	-5.3	NO	0.998	NO	MM
2	180115M2_2	Standard	0.500	4.90	100.584	2945.228	0.427	0.4	-15.0	NO	0.998	NO	MM
3	180115M2_3	Standard	1.000	4.89	310.652	3464.374	1.121	1.1	5.0	NO	0.998	NO	MM
4	180115M2_4	Standard	2.000	4.89	535.144	3222.043	2.076	1.9	-4.5	NO	0.998	NO	MM
5	180115M2_5	Standard	5.000	4.89	1476.891	2939.392	6.281	5.7	13.6	NO	0.998	NO	MM
6	180115M2_6	Standard	10.000	4.89	3408.097	3461.071	12.309	11.0	10.4	NO	0.998	NO	MM
7	180115M2_7	Standard	50.000	4.89	12781.024	2933.493	54.462	47.3	-5.5	NO	0.998	NO	MM
8	180115M2_8	Standard	100.000	4.89	23913.445	2455.447	121.737	101.1	1.1	NO	0.998	NO	MM

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

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Compound name: PFDA

Coefficient of Determination: R^2 = 0.996672

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

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	5.19	236.809	9117.220	0.325	0.2	-14.3	NO	0.997	NO	bb
2	180115M2_2	Standard	0.500	5.19	522.395	9259.429	0.705	0.5	-3.8	NO	0.997	NO	bb
3	180115M2_3	Standard	1.000	5.19	1297.286	10469.260	1.549	1.1	7.3	NO	0.997	NO	bb
4	180115M2_4	Standard	2.000	5.18	2358.456	11543.967	2.554	1.8	-11.2	NO	0.997	NO	bb
5	180115M2_5	Standard	5.000	5.18	6493.696	10095.664	8.040	5.6	12.0	NO	0.997	NO	bb
6	180115M2_6	Standard	10.000	5.19	13712.378	10322.235	16.605	11.5	15.1	NO	0.997	NO	bb
7	180115M2_7	Standard	50.000	5.19	49480.613	8868.471	69.742	46.8	-6.4	NO	0.997	NO	bb
8	180115M2_8	Standard	100.000	5.18	124944.242	9834.333	158.811	101.3	1.3	NO	0.997	NO	bb

Compound name: 8:2 FTS

Coefficient of Determination: R^2 = 0.990883

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

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	0.250	5.16	13.774	9117.220	0.019	0.2	-1.7	NO	0.991	NO	MM
2	180115M2_2	Standard	0.500	5.16	45.840	9259.429	0.062	0.4	-20.3	NO	0.991	NO	MM
3	180115M2_3	Standard	1.000	5.16	258.452	10469.260	0.309	1.3	28.5	NO	0.991	NO	bb
4	180115M2_4	Standard	2.000	5.16	452.092	11543.967	0.490	1.9	-2.7	NO	0.991	NO	bb
5	180115M2_5	Standard	5.000	5.16	994.999	10095.664	1.232	4.8	-4.8	NO	0.991	NO	bb
6	180115M2_6	Standard	10.000	5.16	2080.582	10322.235	2.520	10.1	1.2	NO	0.991	NO	bb
7	180115M2_7	Standard	50.000	5.16	10637.392	8868.471	14.993			NO	0.991	YES	bbXI
8	180115M2_8	Standard	100.000	5.15	18031.459	9834.333	22.919			NO	0.991	YES	bbXI

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Compound name: N-MeFOSAA

Coefficient of Determination: R² = 0.999579

Calibration curve: -0.00488709 * x² + 1.70404 * x + -0.0213461

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	5.34	110.162	3668.057	0.375	0.2	-6.8	NO	1.000	NO	bb
2	2 180115M2_2	Standard	0.500	5.34	278.179	4068.198	0.855	0.5	3.0	NO	1.000	NO	bb
3	3 180115M2_3	Standard	1.000	5.34	608.335	4941.718	1.539	0.9	-8.2	NO	1.000	NO	bb
4	4 180115M2_4	Standard	2.000	5.33	1231.249	4259.577	3.613	2.1	7.3	NO	1.000	NO	bb
5	5 180115M2_5	Standard	5.000	5.33	3181.715	4700.651	8.461	5.1	1.0	NO	1.000	NO	bb
6	6 180115M2_6	Standard	10.000	5.34	6179.386	4734.263	16.316	9.9	-1.3	NO	1.000	NO	bb
7	7 180115M2_7	Standard	50.000	5.33	28100.633	4812.376	72.991	50.0	0.0	NO	1.000	NO	bb
8	8 180115M2_8	Standard	100.000	5.33	46974.879	4204.535	139.655	131.7	31.7	NO	1.000	NO	bbX

Compound name: N-EtFOSAA

Coefficient of Determination: R² = 0.999053

Calibration curve: -0.0014328 * x² + 1.31318 * x + -0.0721789

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	5.49	100.263	4291.856	0.292	0.3	11.0	NO	0.999	NO	bb
2	2 180115M2_2	Standard	0.500	5.49	161.902	4807.261	0.421	0.4	-24.9	NO	0.999	NO	bb
3	3 180115M2_3	Standard	1.000	5.49	569.706	5925.357	1.202	1.0	-2.9	NO	0.999	NO	bb
4	4 180115M2_4	Standard	2.000	5.49	867.935	4489.890	2.416	1.9	-5.1	NO	0.999	NO	bb
5	5 180115M2_5	Standard	5.000	5.49	2512.091	5242.137	5.990	4.6	-7.2	NO	0.999	NO	bb
6	6 180115M2_6	Standard	10.000	5.49	6584.632	5935.848	13.866	10.7	7.4	NO	0.999	NO	bb
7	7 180115M2_7	Standard	50.000	5.49	21965.389	4444.999	61.770	49.8	-0.4	NO	0.999	NO	bb
8	8 180115M2_8	Standard	100.000	5.48	40613.773	4340.295	116.967	100.0	0.0	NO	0.999	NO	bb

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Compound name: PFUdA

Coefficient of Determination: R² = 0.996917

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	5.51	291.033	10659.157	0.341	0.4	73.8	NO	0.997	NO	bbX
2	2 180115M2_2	Standard	0.500	5.51	541.356	12827.074	0.528	0.6	14.3	NO	0.997	NO	bb
3	3 180115M2_3	Standard	1.000	5.51	1323.581	14368.888	1.151	1.0	3.1	NO	0.997	NO	bb
4	4 180115M2_4	Standard	2.000	5.50	1949.719	12801.493	1.904	1.6	-20.6	NO	0.997	NO	bb
5	5 180115M2_5	Standard	5.000	5.50	5686.633	11208.095	6.342	4.9	-1.1	NO	0.997	NO	bb
6	6 180115M2_6	Standard	10.000	5.51	14467.421	13602.793	13.295	10.5	4.7	NO	0.997	NO	bb
7	7 180115M2_7	Standard	50.000	5.50	48741.223	12174.631	50.044	49.9	-0.3	NO	0.997	NO	bb
8	8 180115M2_8	Standard	100.000	5.50	109631.352	10688.771	128.209			NO	0.997	NO	bbXI

Compound name: PFDS

Coefficient of Determination: R² = 0.995370

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	5.55	49.403	10659.157	0.058	0.3	24.9	NO	0.995	NO	MM
2	2 180115M2_2	Standard	0.500	5.56	81.719	12827.074	0.080	0.4	-25.3	NO	0.995	NO	MM
3	3 180115M2_3	Standard	1.000	5.55	298.787	14368.888	0.260	0.9	-11.6	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	5.55	698.640	12801.493	0.682	2.1	4.3	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	5.55	1750.839	11208.095	1.953	5.8	15.2	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	5.55	3408.681	13602.793	3.132	9.2	-7.5	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	5.55	14534.954	12174.631	14.923	50.1	0.2	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	5.55	29850.322	10688.771	34.909			NO	0.995	NO	bbXI

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.996448$

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

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	5.79	300.361	6851.029	0.548	0.2	-26.9	NO	0.996	NO	bd
2	2 180115M2_2	Standard	0.500	5.79	604.702	8538.500	0.885	0.4	-15.3	NO	0.996	NO	bd
3	3 180115M2_3	Standard	1.000	5.79	1422.547	10789.430	1.648	1.0	-3.3	NO	0.996	NO	bd
4	4 180115M2_4	Standard	2.000	5.78	2700.776	9022.085	3.742	2.5	22.7	NO	0.996	NO	bd
5	5 180115M2_5	Standard	5.000	5.78	7561.792	10734.802	8.805	6.0	20.3	NO	0.996	NO	bd
6	6 180115M2_6	Standard	10.000	5.78	15299.965	12215.312	15.657	10.8	7.6	NO	0.996	NO	bd
7	7 180115M2_7	Standard	50.000	5.78	57159.984	9999.913	71.451	46.7	-6.6	NO	0.996	NO	bb
8	8 180115M2_8	Standard	100.000	5.78	110208.867	8119.767	169.661	101.3	1.3	NO	0.996	NO	bd

Compound name: N-MeFOSA

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

Calibration curve: $1.1181 * x + -0.100317$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	1.250	5.84	138.791	15969.864	1.304	1.3	0.5	NO	0.998	NO	bb
2	2 180115M2_2	Standard	2.500	5.84	298.599	17622.953	2.542	2.4	-5.5	NO	0.998	NO	bb
3	3 180115M2_3	Standard	5.000	5.84	735.826	21395.508	5.159	4.7	-5.9	NO	0.998	NO	bb
4	4 180115M2_4	Standard	10.000	5.84	1273.874	18699.383	10.219	9.2	-7.7	NO	0.998	NO	bb
5	5 180115M2_5	Standard	25.000	5.84	3744.515	19396.660	28.957	26.0	4.0	NO	0.998	NO	bb
6	6 180115M2_6	Standard	50.000	5.84	8920.301	21606.223	61.929	55.5	11.0	NO	0.998	NO	bb
7	7 180115M2_7	Standard	250.000	5.84	31396.402	17688.914	266.238	238.2	-4.7	NO	0.998	NO	bb
8	8 180115M2_8	Standard	500.000	5.84	64370.148	17051.773	566.247	506.5	1.3	NO	0.998	NO	bb

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Compound name: PFTrDA

Coefficient of Determination: R² = 0.997156

Calibration curve: -0.000208194 * x² + 2.13661 * x + 0.0644742

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	6.03	345.115	6851.029	0.630	0.3	5.8	NO	0.997	NO	bb
2	2 180115M2_2	Standard	0.500	6.03	831.761	8538.500	1.218	0.5	8.0	NO	0.997	NO	bb
3	3 180115M2_3	Standard	1.000	6.03	1617.529	10789.430	1.874	0.8	-15.3	NO	0.997	NO	bb
4	4 180115M2_4	Standard	2.000	6.03	3191.131	9022.085	4.421	2.0	2.0	NO	0.997	NO	bb
5	5 180115M2_5	Standard	5.000	6.03	7888.307	10734.802	9.185	4.3	-14.6	NO	0.997	NO	bb
6	6 180115M2_6	Standard	10.000	6.03	24356.207	12215.312	24.924	11.6	16.5	NO	0.997	NO	bb
7	7 180115M2_7	Standard	50.000	6.03	82605.594	9999.913	103.258	48.5	-2.9	NO	0.997	NO	bb
8	8 180115M2_8	Standard	100.000	6.03	138314.813	8119.767	212.929	100.6	0.6	NO	0.997	NO	bb

Compound name: PFTeDA

Coefficient of Determination: R² = 0.990929

Calibration curve: -0.0220572 * x² + 3.53283 * x + -0.322211

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	6.24	230.708	3811.400	0.757	0.3	22.4	NO	0.991	NO	MM
2	2 180115M2_2	Standard	0.500	6.24	526.336	4625.902	1.422	0.5	-0.9	NO	0.991	NO	MM
3	3 180115M2_3	Standard	1.000	6.24	1174.005	5784.110	2.537	0.8	-18.7	NO	0.991	NO	MM
4	4 180115M2_4	Standard	2.000	6.23	2327.498	4166.997	6.982	2.1	4.7	NO	0.991	NO	bb
5	5 180115M2_5	Standard	5.000	6.23	5510.744	5054.189	13.629	4.1	-19.0	NO	0.991	NO	MM
6	6 180115M2_6	Standard	10.000	6.24	15163.117	5187.430	36.538	11.2	12.2	NO	0.991	NO	MM
7	7 180115M2_7	Standard	50.000	6.23	46221.027	4785.019	120.744	49.7	-0.6	NO	0.991	NO	bb
8	8 180115M2_8	Standard	100.000	6.23	113973.711	5518.160	258.179			NO	0.991	NO	bbXI

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.998672$

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

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	1.250	6.21	150.663	23192.393	0.974	1.1	-9.7	NO	0.999	NO	bb
2	2 180115M2_2	Standard	2.500	6.20	406.969	25547.748	2.389	2.5	1.4	NO	0.999	NO	bb
3	3 180115M2_3	Standard	5.000	6.20	1002.338	31434.623	4.783	4.9	-1.7	NO	0.999	NO	bb
4	4 180115M2_4	Standard	10.000	6.20	1755.511	27705.471	9.505	9.6	-3.9	NO	0.999	NO	bb
5	5 180115M2_5	Standard	25.000	6.20	5156.592	28494.203	27.145	27.1	8.6	NO	0.999	NO	bb
6	6 180115M2_6	Standard	50.000	6.21	11703.195	32255.756	54.424	54.3	8.5	NO	0.999	NO	bb
7	7 180115M2_7	Standard	250.000	6.21	40516.031	25211.236	241.059	239.4	-4.2	NO	0.999	NO	bb
8	8 180115M2_8	Standard	500.000	6.20	83391.828	24552.484	509.471	504.8	1.0	NO	0.999	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.994875$

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

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	6.54	123.810	2113.428	0.293	0.2	-13.1	NO	0.995	NO	bb
2	2 180115M2_2	Standard	0.500	6.54	258.296	2775.093	0.465	0.4	-14.3	NO	0.995	NO	bb
3	3 180115M2_3	Standard	1.000	6.54	613.721	3282.116	0.935	1.0	0.5	NO	0.995	NO	bb
4	4 180115M2_4	Standard	2.000	6.54	951.224	2733.865	1.740	2.0	-0.3	NO	0.995	NO	bb
5	5 180115M2_5	Standard	5.000	6.54	2968.312	2890.199	5.135	6.2	23.9	NO	0.995	NO	bb
6	6 180115M2_6	Standard	10.000	6.54	5757.014	3217.573	8.946	11.0	9.6	NO	0.995	NO	bb
7	7 180115M2_7	Standard	50.000	6.54	23373.615	3292.356	35.497	45.8	-8.4	NO	0.995	NO	bb
8	8 180115M2_8	Standard	100.000	6.54	44946.250	3057.260	73.507	102.2	2.2	NO	0.995	NO	bb

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Compound name: PFODA

Coefficient of Determination: R² = 0.998411

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

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	0.250	6.77	115.014	2113.428	0.272	0.3	9.8	NO	0.998	NO	bb
2	2 180115M2_2	Standard	0.500	6.77	242.942	2775.093	0.438	0.5	-9.4	NO	0.998	NO	MM
3	3 180115M2_3	Standard	1.000	6.77	550.045	3282.116	0.838	0.9	-11.5	NO	0.998	NO	bb
4	4 180115M2_4	Standard	2.000	6.76	1100.954	2733.865	2.014	2.2	7.8	NO	0.998	NO	bb
5	5 180115M2_5	Standard	5.000	6.76	2821.314	2890.199	4.881	5.3	5.5	NO	0.998	NO	bb
6	6 180115M2_6	Standard	10.000	6.76	6417.821	3217.573	9.973	10.9	8.7	NO	0.998	NO	bb
7	7 180115M2_7	Standard	50.000	6.76	27476.373	3292.356	41.728	47.7	-4.7	NO	0.998	NO	bb
8	8 180115M2_8	Standard	100.000	6.76	50531.801	3057.260	82.642	101.2	1.2	NO	0.998	NO	bb

Compound name: N-MeFOSE

Coefficient of Determination: R² = 0.995669

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

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	1.250	6.30	174.170	20888.145	1.251	1.6	27.8	NO	0.996	NO	bb
2	2 180115M2_2	Standard	2.500	6.30	360.986	26082.570	2.076	2.3	-8.5	NO	0.996	NO	bb
3	3 180115M2_3	Standard	5.000	6.31	977.036	31250.859	4.690	4.5	-10.6	NO	0.996	NO	bb
4	4 180115M2_4	Standard	10.000	6.30	2180.307	29842.697	10.959	9.7	-2.7	NO	0.996	NO	bb
5	5 180115M2_5	Standard	25.000	6.30	6234.112	30325.629	30.836	26.6	6.3	NO	0.996	NO	bd
6	6 180115M2_6	Standard	50.000	6.30	11465.369	35709.676	48.161	41.5	-17.0	NO	0.996	NO	bd
7	7 180115M2_7	Standard	250.000	6.31	46049.070	24759.139	278.982	267.3	6.9	NO	0.996	NO	bb
8	8 180115M2_8	Standard	500.000	6.30	86639.500	28975.107	448.520	489.1	-2.2	NO	0.996	NO	bb

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Compound name: N-EtFOSE

Coefficient of Determination: $R^2 = 0.999660$

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

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	180115M2_1	Standard	1.250	6.45	222.976	22450.639	1.490	1.0	-21.5	NO	1.000	NO	bb
2	180115M2_2	Standard	2.500	6.46	541.090	21303.693	3.810	3.0	19.0	NO	1.000	NO	bb
3	180115M2_3	Standard	5.000	6.45	1251.249	31097.133	6.036	4.9	-2.4	NO	1.000	NO	bb
4	180115M2_4	Standard	10.000	6.45	2353.475	27869.063	12.667	10.5	5.3	NO	1.000	NO	bb
5	180115M2_5	Standard	25.000	6.45	5290.171	27858.053	28.485	23.8	-4.9	NO	1.000	NO	bb
6	180115M2_6	Standard	50.000	6.46	12232.546	28613.766	64.126	52.7	5.3	NO	1.000	NO	bd
7	180115M2_7	Standard	250.000	6.46	51195.125	22170.844	346.368	247.2	-1.1	NO	1.000	NO	bb
8	180115M2_8	Standard	500.000	6.45	111534.742	20270.486	825.348	501.0	0.2	NO	1.000	NO	bd

Compound name: 13C3-PFBA

Response Factor: 0.779165

RRF SD: 0.0334129, Relative SD: 4.2883

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	180115M2_1	Standard	12.500	1.53	8006.990	10061.779	9.947	12.8	2.1	NO		NO	bb
2	180115M2_2	Standard	12.500	1.52	8945.453	11662.093	9.588	12.3	-1.6	NO		NO	bb
3	180115M2_3	Standard	12.500	1.52	11178.312	14677.296	9.520	12.2	-2.3	NO		NO	bb
4	180115M2_4	Standard	12.500	1.52	9860.501	12356.659	9.975	12.8	2.4	NO		NO	bb
5	180115M2_5	Standard	12.500	1.52	10104.886	13477.931	9.372	12.0	-3.8	NO		NO	bb
6	180115M2_6	Standard	12.500	1.52	10919.465	14699.104	9.286	11.9	-4.7	NO		NO	bb
7	180115M2_7	Standard	12.500	1.52	9706.659	11470.707	10.578	13.6	8.6	NO		NO	bb
8	180115M2_8	Standard	12.500	1.52	9008.640	11668.103	9.651	12.4	-0.9	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.796717

RRF SD: 0.0707195, Relative SD: 8.87636

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	2.48	8868.418	12455.272	8.900	11.2	-10.6	NO		NO	bb
2	2 180115M2_2	Standard	12.500	2.48	10441.303	12561.499	10.390	13.0	4.3	NO		NO	bb
3	3 180115M2_3	Standard	12.500	2.48	13027.811	16767.305	9.712	12.2	-2.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	2.48	11372.540	14101.621	10.081	12.7	1.2	NO		NO	bb
5	5 180115M2_5	Standard	12.500	2.48	11971.679	15840.523	9.447	11.9	-5.1	NO		NO	bb
6	6 180115M2_6	Standard	12.500	2.48	12510.149	16157.200	9.678	12.1	-2.8	NO		NO	bb
7	7 180115M2_7	Standard	12.500	2.48	11201.616	11804.778	11.861	14.9	19.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	2.48	10375.532	13507.876	9.601	12.1	-3.6	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.0950157

RRF SD: 0.00787595, Relative SD: 8.2891

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	2.75	1196.924	12455.272	1.201	12.6	1.1	NO		NO	bb
2	2 180115M2_2	Standard	12.500	2.75	1206.778	12561.499	1.201	12.6	1.1	NO		NO	bb
3	3 180115M2_3	Standard	12.500	2.75	1442.793	16767.305	1.076	11.3	-9.4	NO		NO	bb
4	4 180115M2_4	Standard	12.500	2.75	1290.825	14101.621	1.144	12.0	-3.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	2.75	1432.762	15840.523	1.131	11.9	-4.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	2.75	1624.717	16157.200	1.257	13.2	5.8	NO		NO	bb
7	7 180115M2_7	Standard	12.500	2.75	1307.205	11804.778	1.384	14.6	16.5	NO		NO	bb
8	8 180115M2_8	Standard	12.500	2.75	1197.229	13507.876	1.108	11.7	-6.7	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.636292

RRF SD: 0.0537257, Relative SD: 8.44356

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	5.000	3.25	2798.348	12455.272	2.808	4.4	-11.7	NO		NO	bb
2	2 180115M2_2	Standard	5.000	3.25	3301.620	12561.499	3.285	5.2	3.3	NO		NO	bb
3	3 180115M2_3	Standard	5.000	3.25	4246.745	16767.305	3.166	5.0	-0.5	NO		NO	bb
4	4 180115M2_4	Standard	5.000	3.25	3760.921	14101.621	3.334	5.2	4.8	NO		NO	bb
5	5 180115M2_5	Standard	5.000	3.25	3739.436	15840.523	2.951	4.6	-7.2	NO		NO	bb
6	6 180115M2_6	Standard	5.000	3.25	4073.186	16157.200	3.151	5.0	-1.0	NO		NO	bb
7	7 180115M2_7	Standard	5.000	3.25	3489.034	11804.778	3.695	5.8	16.1	NO		NO	bb
8	8 180115M2_8	Standard	5.000	3.24	3308.405	13507.876	3.062	4.8	-3.8	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.620752

RRF SD: 0.0575853, Relative SD: 9.2767

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	3.87	7169.426	12455.272	7.195	11.6	-7.3	NO		NO	bb
2	2 180115M2_2	Standard	12.500	3.87	8300.460	12561.499	8.260	13.3	6.4	NO		NO	bb
3	3 180115M2_3	Standard	12.500	3.87	10064.894	16767.305	7.503	12.1	-3.3	NO		NO	bb
4	4 180115M2_4	Standard	12.500	3.87	8890.794	14101.621	7.881	12.7	1.6	NO		NO	bb
5	5 180115M2_5	Standard	12.500	3.87	8790.349	15840.523	6.937	11.2	-10.6	NO		NO	bb
6	6 180115M2_6	Standard	12.500	3.87	9715.788	16157.200	7.517	12.1	-3.1	NO		NO	bb
7	7 180115M2_7	Standard	12.500	3.87	8726.845	11804.778	9.241	14.9	19.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	3.86	8149.912	13507.876	7.542	12.1	-2.8	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.335817

RRF SD: 0.0498507, Relative SD: 14.8446

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.01	793.087	2804.372	3.535	10.5	-15.8	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.01	971.136	3149.166	3.855	11.5	-8.2	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.01	1035.130	3283.306	3.941	11.7	-6.1	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.01	1074.646	3088.549	4.349	13.0	3.6	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.01	1083.133	3535.805	3.829	11.4	-8.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.01	1211.424	3990.885	3.794	11.3	-9.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.01	1067.766	2610.740	5.112	15.2	21.8	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.01	1041.940	2521.238	5.166	15.4	23.1	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.192395

RRF SD: 0.0380277, Relative SD: 19.7655

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.33	1703.521	11387.326	1.870	9.7	-22.2	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.33	2145.071	12172.035	2.203	11.4	-8.4	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.33	2487.351	13726.202	2.265	11.8	-5.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.33	2144.726	13300.389	2.016	10.5	-16.2	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.33	2742.800	12814.540	2.675	13.9	11.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.33	2540.768	15285.250	2.078	10.8	-13.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.33	2945.466	11556.618	3.186	16.6	32.5	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.32	2820.117	11963.216	2.947	15.3	22.5	NO		NO	bb

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Compound name: 13C2-PFOA

Response Factor: 1.00125

RRF SD: 0.0485388, Relative SD: 4.84783

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.38	11129.100	11387.326	12.217	12.2	-2.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.39	12054.782	12172.035	12.380	12.4	-1.1	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.39	13949.129	13726.202	12.703	12.7	1.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.38	13294.508	13300.389	12.494	12.5	-0.2	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.38	12417.951	12814.540	12.113	12.1	-3.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.38	15251.905	15285.250	12.473	12.5	-0.3	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.38	12829.036	11556.618	13.876	13.9	10.9	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.38	11359.297	11963.216	11.869	11.9	-5.2	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.810837

RRF SD: 0.0778338, Relative SD: 9.59919

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.81	8611.178	9887.708	10.886	13.4	7.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.82	10629.969	14541.915	9.137	11.3	-9.8	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.81	11370.316	15659.906	9.076	11.2	-10.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.81	11056.825	14165.005	9.757	12.0	-3.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.81	13849.589	14881.775	11.633	14.3	14.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.81	12422.833	16690.238	9.304	11.5	-8.2	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.81	10235.261	11566.101	11.062	13.6	9.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.81	10065.815	12301.464	10.228	12.6	0.9	NO		NO	bb

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Compound name: 13C8-PFOSA

Response Factor: 0.196454

RRF SD: 0.0326291, Relative SD: 16.609

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.88	2018.146	9597.051	2.629	13.4	7.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.88	2450.537	12232.438	2.504	12.7	2.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.88	3263.926	16108.975	2.533	12.9	3.1	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.88	2580.329	15359.841	2.100	10.7	-14.5	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.87	2747.783	14601.564	2.352	12.0	-4.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.88	3176.006	14430.306	2.751	14.0	12.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.88	2461.930	10068.811	3.056	15.6	24.5	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.87	1976.078	14359.005	1.720	8.8	-29.9	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 0.861518

RRF SD: 0.080099, Relative SD: 9.29742

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.89	2273.944	3065.292	9.273	10.8	-13.9	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.89	2945.228	3701.104	9.947	11.5	-7.6	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.89	3464.374	4167.454	10.391	12.1	-3.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.89	3222.043	3259.616	12.356	14.3	14.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.89	2939.392	3538.393	10.384	12.1	-3.6	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.89	3461.071	3917.062	11.045	12.8	2.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.89	2933.493	3367.256	10.890	12.6	1.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.89	2455.447	2586.616	11.866	13.8	10.2	NO		NO	bb

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Compound name: 13C2-PFDA

Response Factor: 0.995958

RRF SD: 0.0416295, Relative SD: 4.17985

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.19	9117.220	8643.550	13.185	13.2	5.9	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.19	9259.429	9573.944	12.089	12.1	-2.9	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.19	10469.260	10839.729	12.073	12.1	-3.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.18	11543.967	11526.396	12.519	12.6	0.6	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.18	10095.664	10211.842	12.358	12.4	-0.7	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.19	10322.235	10477.224	12.315	12.4	-1.1	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.19	8868.471	9388.578	11.808	11.9	-5.2	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.18	9834.333	9278.257	13.249	13.3	6.4	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.102966

RRF SD: 0.0196885, Relative SD: 19.1214

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.16	1084.677	12455.272	1.089	10.6	-15.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.16	1447.292	12561.499	1.440	14.0	11.9	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.16	2016.216	16767.305	1.503	14.6	16.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.16	1733.439	14101.621	1.537	14.9	19.4	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.16	1179.393	15840.523	0.931	9.0	-27.7	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.16	1581.232	16157.200	1.223	11.9	-5.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.16	1661.151	11804.778	1.759	17.1	36.7	NO		NO	bbX
8	8 180115M2_8	Standard	12.500	5.16	1868.278	13507.876	1.729	16.8	34.3	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.339955

RRF SD: 0.0639138, Relative SD: 18.8007

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.33	3668.057	9597.051	4.778	14.1	12.4	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.33	4068.198	12232.438	4.157	12.2	-2.2	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.33	4941.718	16108.975	3.835	11.3	-9.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.33	4259.577	15359.841	3.466	10.2	-18.4	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.33	4700.651	14601.564	4.024	11.8	-5.3	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.33	4734.263	14430.306	4.101	12.1	-3.5	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.33	4812.376	10068.811	5.974	17.6	40.6	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.33	4204.535	14359.005	3.660	10.8	-13.9	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.376804

RRF SD: 0.0581665, Relative SD: 15.4368

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.49	4291.856	9597.051	5.590	14.8	18.7	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.49	4807.261	12232.438	4.912	13.0	4.3	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.49	5925.357	16108.975	4.598	12.2	-2.4	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.48	4489.890	15359.841	3.654	9.7	-22.4	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.48	5242.137	14601.564	4.488	11.9	-4.7	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.48	5935.848	14430.306	5.142	13.6	9.2	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.48	4444.999	10068.811	5.518	14.6	17.2	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.48	4340.295	14359.005	3.778	10.0	-19.8	NO		NO	bb

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Compound name: 13C2-PFUdA

Response Factor: 0.943561

RRF SD: 0.166868, Relative SD: 17.6849

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.51	10659.157	9597.051	13.883	14.7	17.7	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.51	12827.074	12232.438	13.108	13.9	11.1	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.51	14368.888	16108.975	11.150	11.8	-5.5	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.50	12801.493	15359.841	10.418	11.0	-11.7	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.50	11208.095	14601.564	9.595	10.2	-18.6	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.51	13602.793	14430.306	11.783	12.5	-0.1	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.50	12174.631	10068.811	15.114	16.0	28.1	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.50	10688.771	14359.005	9.305	9.9	-21.1	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.726172

RRF SD: 0.138899, Relative SD: 19.1275

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.79	6851.029	9597.051	8.923	12.3	-1.7	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.79	8538.500	12232.438	8.725	12.0	-3.9	NO		NO	MM
3	3 180115M2_3	Standard	12.500	5.79	10789.430	16108.975	8.372	11.5	-7.8	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.78	9022.085	15359.841	7.342	10.1	-19.1	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.78	10734.802	14601.564	9.190	12.7	1.2	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.78	12215.312	14430.306	10.581	14.6	16.6	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.78	9999.913	10068.811	12.414	17.1	36.8	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.78	8119.767	14359.005	7.069	9.7	-22.1	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.118962
 RRF SD: 0.0169862, Relative SD: 14.2787
 Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	150.000	5.86	15969.864	9597.051	20.800	174.9	16.6	NO		NO	bb
2	2 180115M2_2	Standard	150.000	5.86	17622.953	12232.438	18.008	151.4	0.9	NO		NO	bb
3	3 180115M2_3	Standard	150.000	5.86	21395.508	16108.975	16.602	139.6	-7.0	NO		NO	bb
4	4 180115M2_4	Standard	150.000	5.86	18699.383	15359.841	15.218	127.9	-14.7	NO		NO	bb
5	5 180115M2_5	Standard	150.000	5.86	19396.660	14601.564	16.605	139.6	-6.9	NO		NO	bb
6	6 180115M2_6	Standard	150.000	5.86	21606.223	14430.306	18.716	157.3	4.9	NO		NO	bb
7	7 180115M2_7	Standard	150.000	5.86	17688.914	10068.811	21.960	184.6	23.1	NO		NO	bb
8	8 180115M2_8	Standard	150.000	5.86	17051.773	14359.005	14.844	124.8	-16.8	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.371352
 RRF SD: 0.056833, Relative SD: 15.3043
 Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)
 Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	6.24	3811.400	9597.051	4.964	13.4	6.9	NO		NO	bb
2	2 180115M2_2	Standard	12.500	6.24	4625.902	12232.438	4.727	12.7	1.8	NO		NO	bb
3	3 180115M2_3	Standard	12.500	6.24	5784.110	16108.975	4.488	12.1	-3.3	NO		NO	bb
4	4 180115M2_4	Standard	12.500	6.23	4166.997	15359.841	3.391	9.1	-26.9	NO		NO	MM
5	5 180115M2_5	Standard	12.500	6.23	5054.189	14601.564	4.327	11.7	-6.8	NO		NO	bb
6	6 180115M2_6	Standard	12.500	6.24	5187.430	14430.306	4.494	12.1	-3.2	NO		NO	MM
7	7 180115M2_7	Standard	12.500	6.23	4785.019	10068.811	5.940	16.0	28.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	6.23	5518.160	14359.005	4.804	12.9	3.5	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.17355

RRF SD: 0.0236433, Relative SD: 13.6233

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	150.000	6.21	23192.393	9597.051	30.208	174.1	16.0	NO		NO	bb
2	2 180115M2_2	Standard	150.000	6.22	25547.748	12232.438	26.107	150.4	0.3	NO		NO	bb
3	3 180115M2_3	Standard	150.000	6.21	31434.623	16108.975	24.392	140.5	-6.3	NO		NO	bb
4	4 180115M2_4	Standard	150.000	6.21	27705.471	15359.841	22.547	129.9	-13.4	NO		NO	bb
5	5 180115M2_5	Standard	150.000	6.21	28494.203	14601.564	24.393	140.6	-6.3	NO		NO	bb
6	6 180115M2_6	Standard	150.000	6.22	32255.756	14430.306	27.941	161.0	7.3	NO		NO	bb
7	7 180115M2_7	Standard	150.000	6.22	25211.236	10068.811	31.299	180.3	20.2	NO		NO	bb
8	8 180115M2_8	Standard	150.000	6.21	24552.484	14359.005	21.374	123.2	-17.9	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.559258

RRF SD: 0.111637, Relative SD: 19.9617

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	5.000	6.54	2113.428	9597.051	2.753	4.9	-1.6	NO		NO	MM
2	2 180115M2_2	Standard	5.000	6.54	2775.093	12232.438	2.836	5.1	1.4	NO		NO	bb
3	3 180115M2_3	Standard	5.000	6.54	3282.116	16108.975	2.547	4.6	-8.9	NO		NO	MM
4	4 180115M2_4	Standard	5.000	6.54	2733.865	15359.841	2.225	4.0	-20.4	NO		NO	MM
5	5 180115M2_5	Standard	5.000	6.54	2890.199	14601.564	2.474	4.4	-11.5	NO		NO	bb
6	6 180115M2_6	Standard	5.000	6.54	3217.573	14430.306	2.787	5.0	-0.3	NO		NO	bb
7	7 180115M2_7	Standard	5.000	6.54	3292.356	10068.811	4.087	7.3	46.2	NO		NO	MM
8	8 180115M2_8	Standard	5.000	6.54	3057.260	14359.005	2.661	4.8	-4.8	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.179375

RRF SD: 0.0175828, Relative SD: 9.80226

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	150.000	6.29	20888.145	9597.051	27.206	151.7	1.1	NO		NO	bb
2	2 180115M2_2	Standard	150.000	6.29	26082.570	12232.438	26.653	148.6	-0.9	NO		NO	bb
3	3 180115M2_3	Standard	150.000	6.29	31250.859	16108.975	24.250	135.2	-9.9	NO		NO	bb
4	4 180115M2_4	Standard	150.000	6.29	29842.697	15359.841	24.286	135.4	-9.7	NO		NO	bb
5	5 180115M2_5	Standard	150.000	6.29	30325.629	14601.564	25.961	144.7	-3.5	NO		NO	bb
6	6 180115M2_6	Standard	150.000	6.29	35709.676	14430.306	30.933	172.4	15.0	NO		NO	bb
7	7 180115M2_7	Standard	150.000	6.29	24759.139	10068.811	30.737	171.4	14.2	NO		NO	bb
8	8 180115M2_8	Standard	150.000	6.29	28975.107	14359.005	25.224	140.6	-6.3	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.159689

RRF SD: 0.0235867, Relative SD: 14.7704

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	150.000	6.44	22450.639	9597.051	29.242	183.1	22.1	NO		NO	bd
2	2 180115M2_2	Standard	150.000	6.45	21303.693	12232.438	21.770	136.3	-9.1	NO		NO	bb
3	3 180115M2_3	Standard	150.000	6.44	31097.133	16108.975	24.130	151.1	0.7	NO		NO	bb
4	4 180115M2_4	Standard	150.000	6.44	27869.063	15359.841	22.680	142.0	-5.3	NO		NO	bb
5	5 180115M2_5	Standard	150.000	6.44	27858.053	14601.564	23.849	149.3	-0.4	NO		NO	bb
6	6 180115M2_6	Standard	150.000	6.44	28613.766	14430.306	24.786	155.2	3.5	NO		NO	bb
7	7 180115M2_7	Standard	150.000	6.45	22170.844	10068.811	27.524	172.4	14.9	NO		NO	bb
8	8 180115M2_8	Standard	150.000	6.44	20270.486	14359.005	17.646	110.5	-26.3	NO		NO	bb

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	12.500	1.52	10061.779	10061.779	12.500	12.5	0.0	NO		NO	bb
2	180115M2_2	Standard	12.500	1.52	11662.093	11662.093	12.500	12.5	0.0	NO		NO	bb
3	180115M2_3	Standard	12.500	1.52	14677.296	14677.296	12.500	12.5	0.0	NO		NO	bb
4	180115M2_4	Standard	12.500	1.52	12356.659	12356.659	12.500	12.5	0.0	NO		NO	bb
5	180115M2_5	Standard	12.500	1.52	13477.931	13477.931	12.500	12.5	0.0	NO		NO	bb
6	180115M2_6	Standard	12.500	1.52	14699.104	14699.104	12.500	12.5	0.0	NO		NO	bb
7	180115M2_7	Standard	12.500	1.52	11470.707	11470.707	12.500	12.5	0.0	NO		NO	bb
8	180115M2_8	Standard	12.500	1.52	11668.103	11668.103	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180115M2_1	Standard	12.500	3.25	12455.272	12455.272	12.500	12.5	0.0	NO		NO	bb
2	180115M2_2	Standard	12.500	3.25	12561.499	12561.499	12.500	12.5	0.0	NO		NO	bb
3	180115M2_3	Standard	12.500	3.25	16767.305	16767.305	12.500	12.5	0.0	NO		NO	bb
4	180115M2_4	Standard	12.500	3.25	14101.621	14101.621	12.500	12.5	0.0	NO		NO	bb
5	180115M2_5	Standard	12.500	3.24	15840.523	15840.523	12.500	12.5	0.0	NO		NO	bb
6	180115M2_6	Standard	12.500	3.25	16157.200	16157.200	12.500	12.5	0.0	NO		NO	bb
7	180115M2_7	Standard	12.500	3.25	11804.778	11804.778	12.500	12.5	0.0	NO		NO	bb
8	180115M2_8	Standard	12.500	3.24	13507.876	13507.876	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.01	2804.372	2804.372	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.01	3149.166	3149.166	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.01	3283.306	3283.306	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.01	3088.549	3088.549	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.01	3535.805	3535.805	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.01	3990.885	3990.885	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.01	2610.740	2610.740	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.01	2521.238	2521.238	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.38	11387.326	11387.326	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.39	12172.035	12172.035	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.39	13726.202	13726.202	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.38	13300.389	13300.389	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.38	12814.540	12814.540	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.39	15285.250	15285.250	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.38	11556.618	11556.618	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.38	11963.216	11963.216	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.81	9887.708	9887.708	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.82	14541.915	14541.915	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.81	15659.906	15659.906	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.81	14165.005	14165.005	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.81	14881.775	14881.775	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.81	16690.238	16690.238	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.81	11566.101	11566.101	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.81	12301.464	12301.464	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	4.89	3065.292	3065.292	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	4.89	3701.104	3701.104	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	4.89	4167.454	4167.454	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	4.89	3259.616	3259.616	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	4.89	3538.393	3538.393	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	4.89	3917.062	3917.062	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	4.89	3367.256	3367.256	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	4.89	2586.616	2586.616	12.500	12.5	0.0	NO		NO	bb

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

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.19	8643.550	8643.550	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.19	9573.944	9573.944	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.19	10839.729	10839.729	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.18	11526.396	11526.396	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.18	10211.842	10211.842	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.19	10477.224	10477.224	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.19	9388.578	9388.578	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.18	9278.257	9278.257	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUdA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180115M2_1	Standard	12.500	5.51	9597.051	9597.051	12.500	12.5	0.0	NO		NO	bb
2	2 180115M2_2	Standard	12.500	5.51	12232.438	12232.438	12.500	12.5	0.0	NO		NO	bb
3	3 180115M2_3	Standard	12.500	5.51	16108.975	16108.975	12.500	12.5	0.0	NO		NO	bb
4	4 180115M2_4	Standard	12.500	5.50	15359.841	15359.841	12.500	12.5	0.0	NO		NO	bb
5	5 180115M2_5	Standard	12.500	5.50	14601.564	14601.564	12.500	12.5	0.0	NO		NO	bb
6	6 180115M2_6	Standard	12.500	5.51	14430.306	14430.306	12.500	12.5	0.0	NO		NO	bb
7	7 180115M2_7	Standard	12.500	5.50	10068.811	10068.811	12.500	12.5	0.0	NO		NO	bb
8	8 180115M2_8	Standard	12.500	5.50	14359.005	14359.005	12.500	12.5	0.0	NO		NO	bb

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

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

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

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

#	Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9972	NO	
2	2 PFPeA	0.9960	NO	
3	3 PFBS	0.9964	NO	
4	4 PFHxA	0.9925	NO	
5	5 PFHpA	0.9954	NO	
6	6 L-PFHxS	0.9997	NO	
7	8 6:2 FTS	0.9954	NO	
8	9 L-PFOA	0.9948	NO	
9	11 PFHpS	0.9990	NO	
10	12 PFNA	0.9983	NO	
11	13 PFOSA	0.9990	NO	
12	14 L-PFOS	0.9977	NO	
13	16 PFDA	0.9967	NO	
14	17 8:2 FTS	0.9909	NO	
15	18 N-MeFOSAA	0.9996	NO	
16	19 N-EtFOSAA	0.9991	NO	
17	20 PFUdA	0.9969	NO	
18	21 PFDS	0.9954	NO	
19	22 PFDoA	0.9964	NO	
20	23 N-MeFOSA	0.9983	NO	
21	24 PFTrDA	0.9972	NO	
22	25 PFTeDA	0.9909	NO	
23	26 N-EtFOSA	0.9987	NO	
24	27 PFHxDA	0.9949	NO	
25	28 PFODA	0.9984	NO	
26	29 N-MeFOSE	0.9957	NO	
27	30 N-EtFOSE	0.9997	NO	
28	31 13C3-PFBA		NO	4.288
29	32 13C3-PFPeA		NO	8.876
30	33 13C3-PFBS		NO	8.289
31	34 13C2-PFHxA		NO	8.444

Work Order 1701953

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

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

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

#	Name	CoD	CoD Flag	%RSD
32	35 13C4-PFHpA		NO	9.277
33	36 18O2-PFHxS		NO	14.845
34	37 13C2-6:2 FTS		NO	19.765
35	38 13C2-PFOA		NO	4.848
36	39 13C5-PFNA		NO	9.599
37	40 13C8-PFOSA		NO	16.609
38	41 13C8-PFOS		NO	9.297
39	42 13C2-PFDA		NO	4.180
40	43 13C2-8:2 FTS		NO	19.121
41	44 d3-N-MeFOSAA		NO	18.801
42	45 d5-N-EtFOSAA		NO	15.437
43	46 13C2-PFUdA		NO	17.685
44	47 13C2-PFDoA		NO	19.128
45	48 d3-N-MeFOSA		NO	14.279
46	49 13C2-PFTeDA		NO	15.304
47	50 d5-N-ETFOSA		NO	13.623
48	51 13C2-PFHxDA		NO	19.962
49	52 d7-N-MeFOSE		NO	9.802
50	53 d9-N-EtFOSE		NO	14.770
51	54 13C4-PFBA		NO	0.000
52	55 13C5-PFHxA		NO	0.000
53	56 13C3-PFHxS		NO	0.000
54	57 13C8-PFOA		NO	0.000
55	58 13C9-PFNA		NO	0.000
56	59 13C4-PFOS		NO	0.000
57	60 13C6-PFDA		NO	0.000
58	61 13C7-PFUdA		NO	0.000

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

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

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

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

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

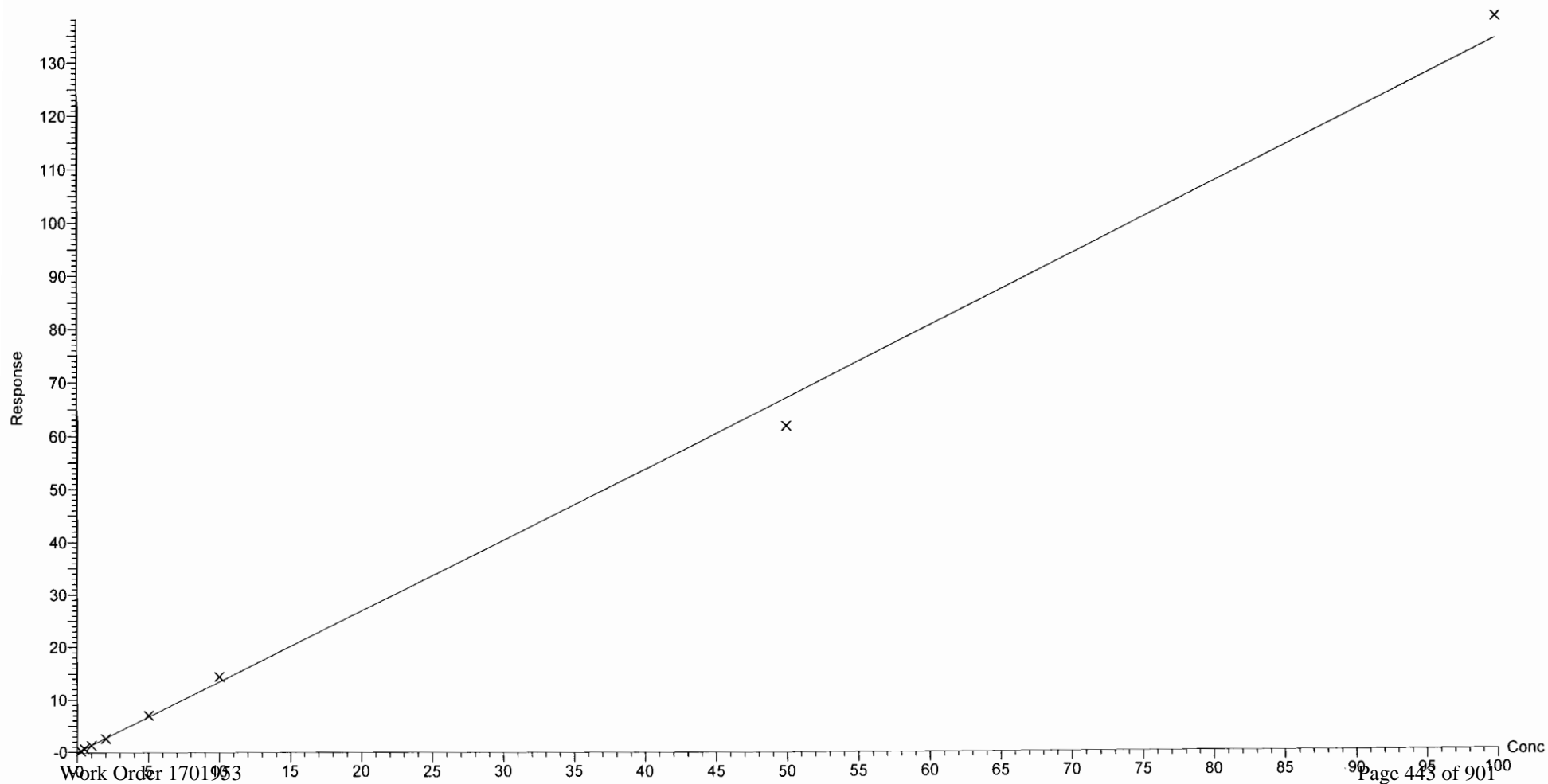
Compound name: PFBA

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

Calibration curve: $1.33977 * x + -0.0328732$

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

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



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

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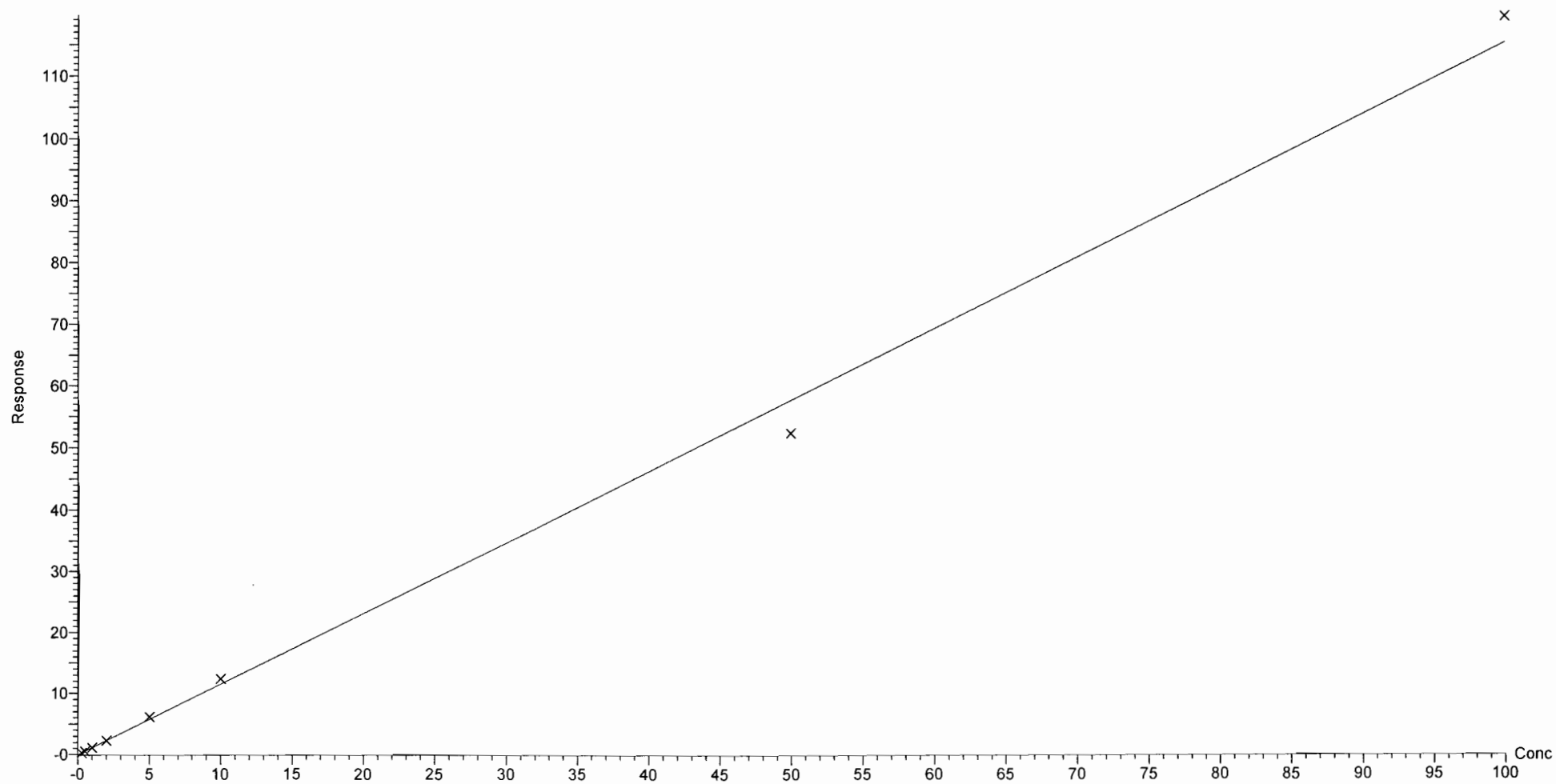
Compound name: PFPeA

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

Calibration curve: $1.15515 * x + -0.0327357$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

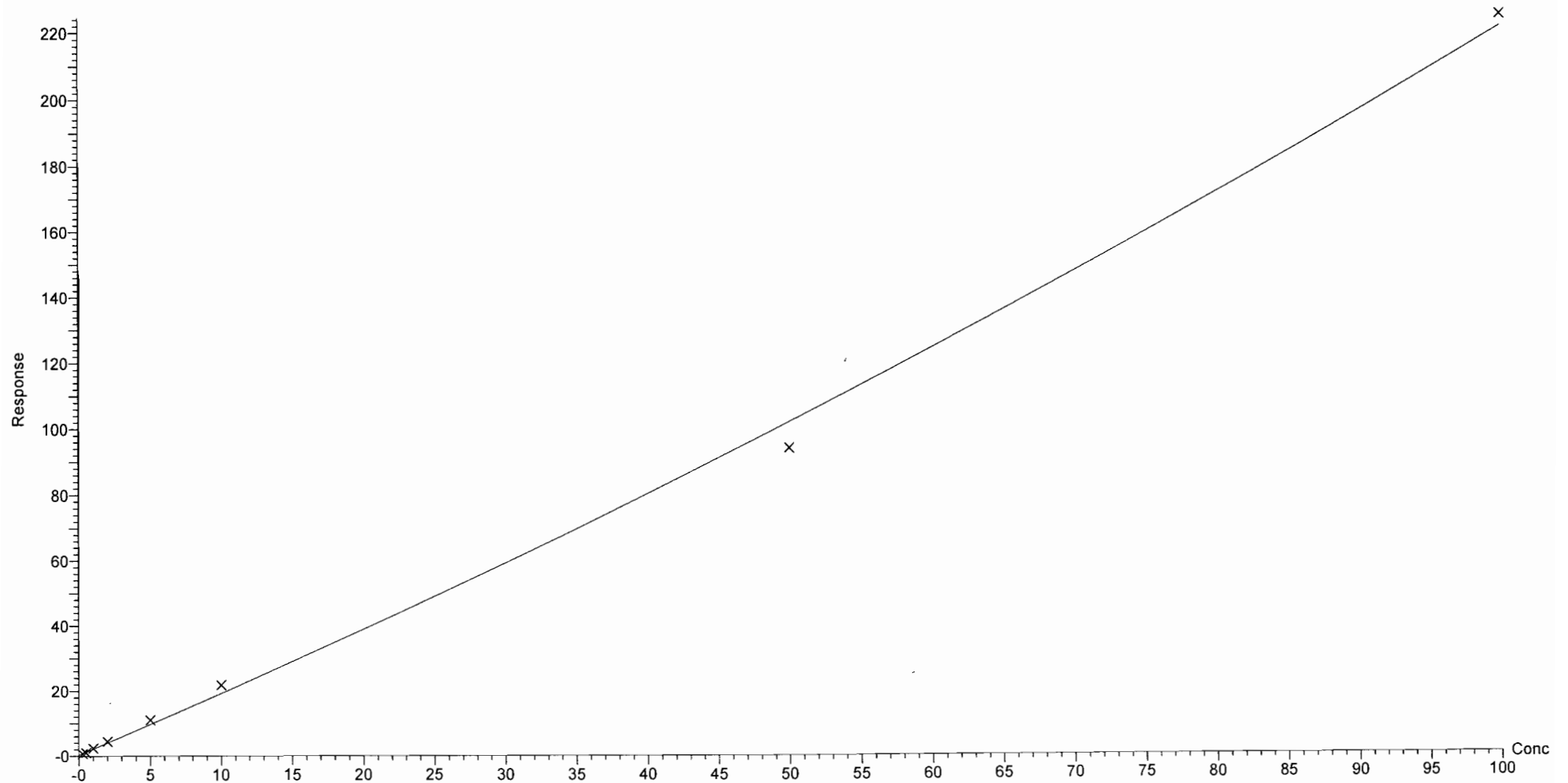
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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

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Compound name: PFBS
Coefficient of Determination: $R^2 = 0.996395$
Calibration curve: $0.00351371 * x^2 + 1.85665 * x + 0.254875$
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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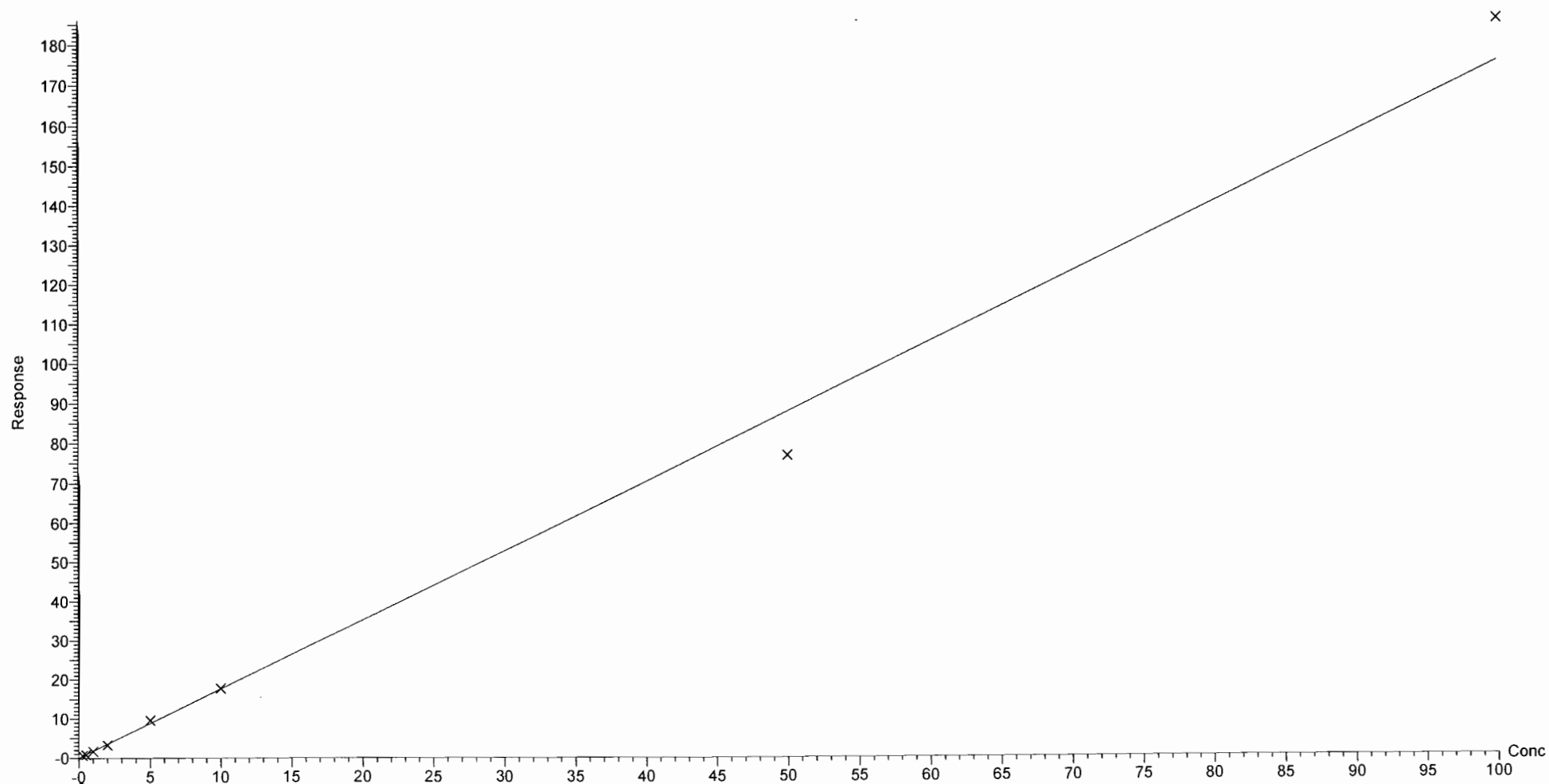
Compound name: PFHxA

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

Calibration curve: $1.75438 * x + 0.0169924$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

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



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

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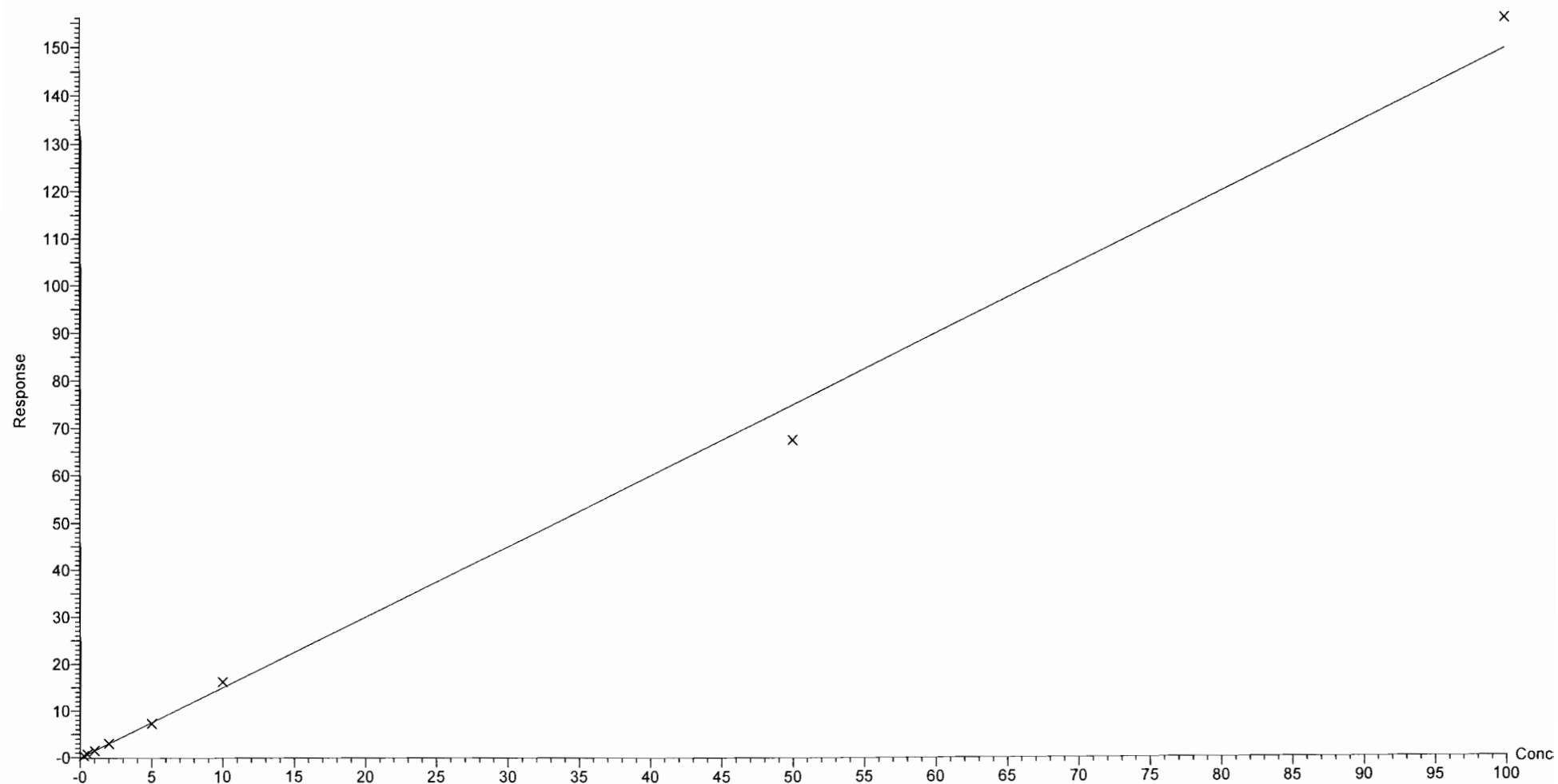
Compound name: PFHpA

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

Calibration curve: $1.49645 * x + -0.0592287$

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

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



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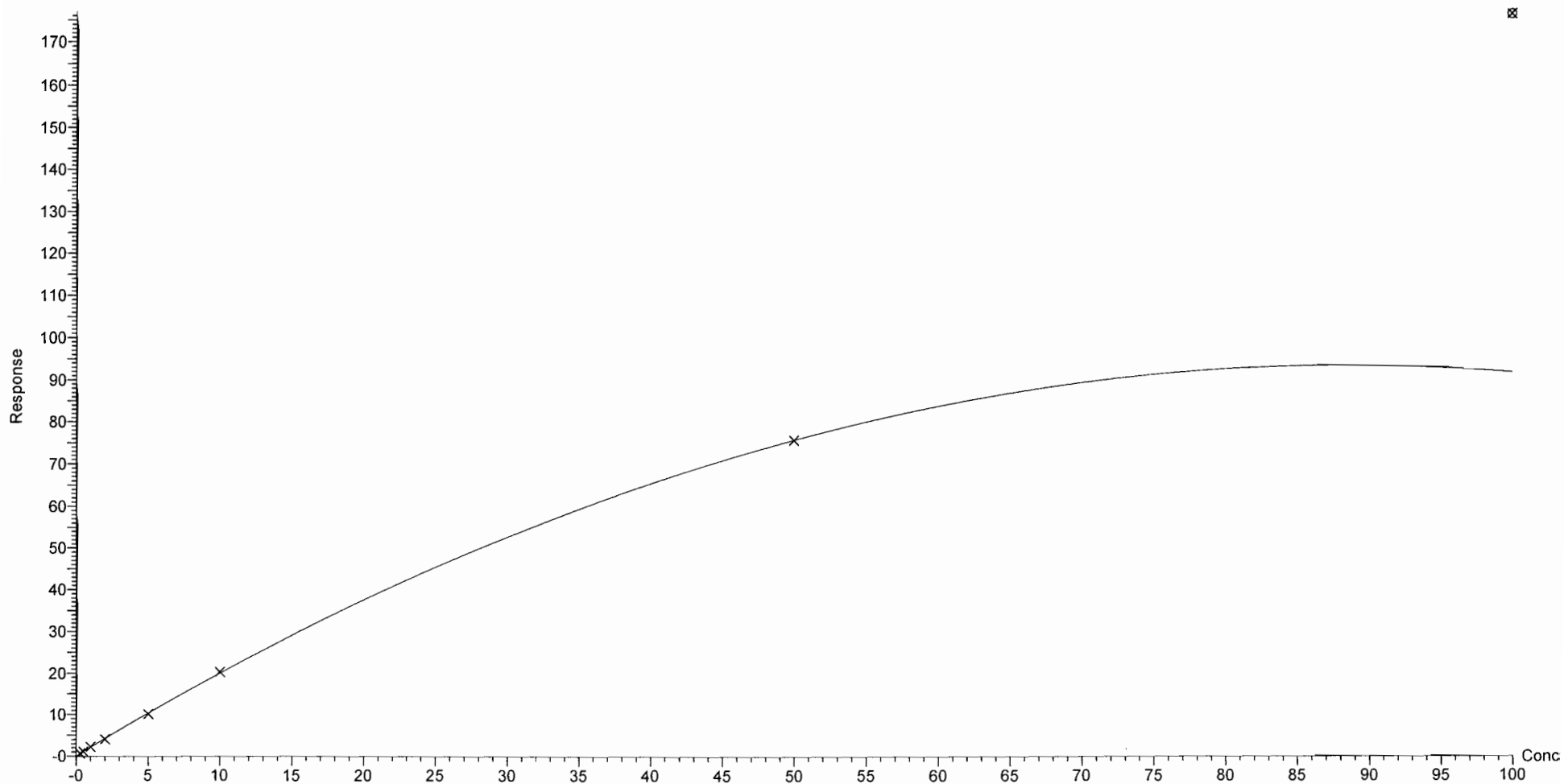
Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.999726$

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

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

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



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

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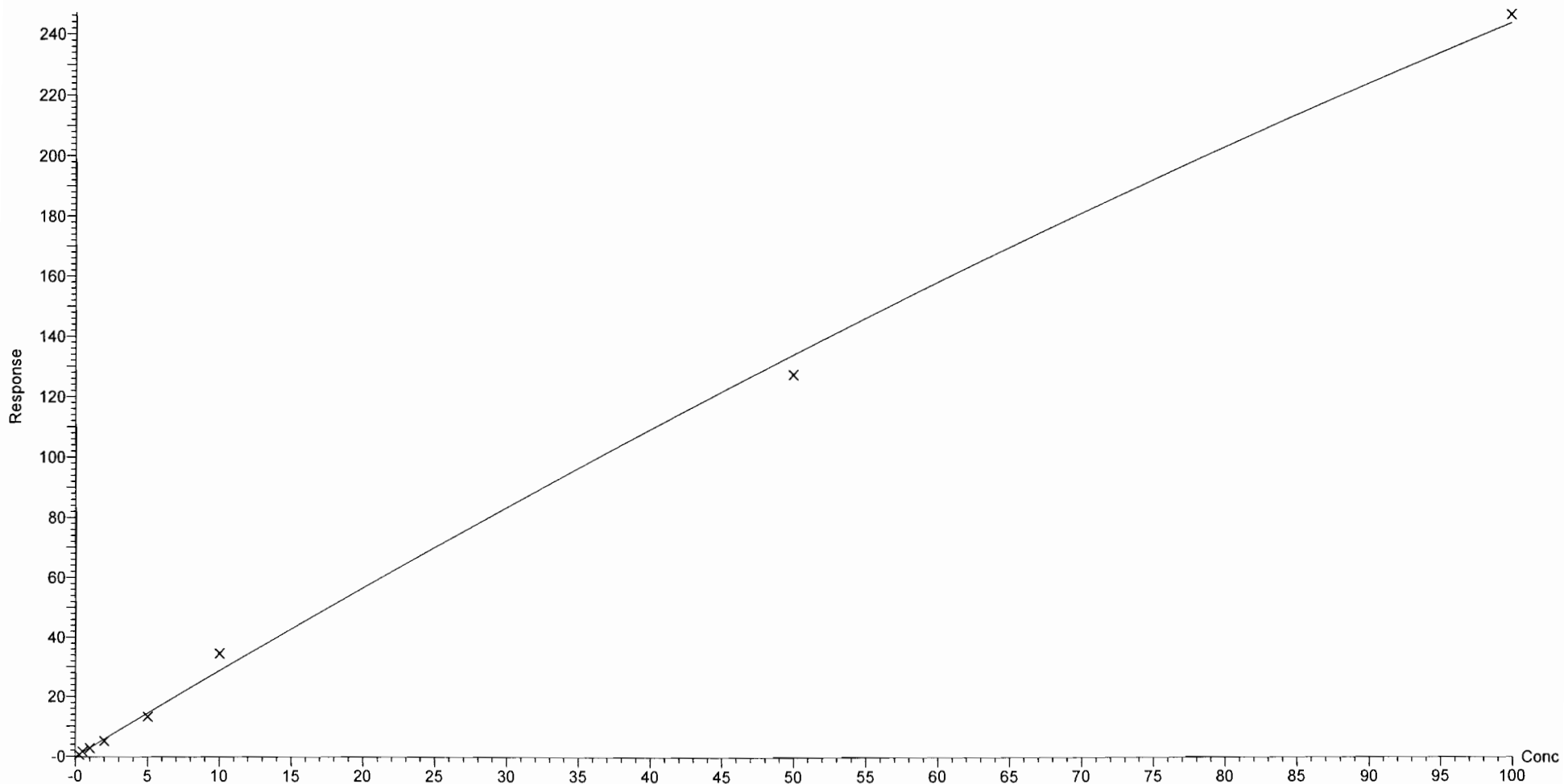
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.995384$

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

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

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



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

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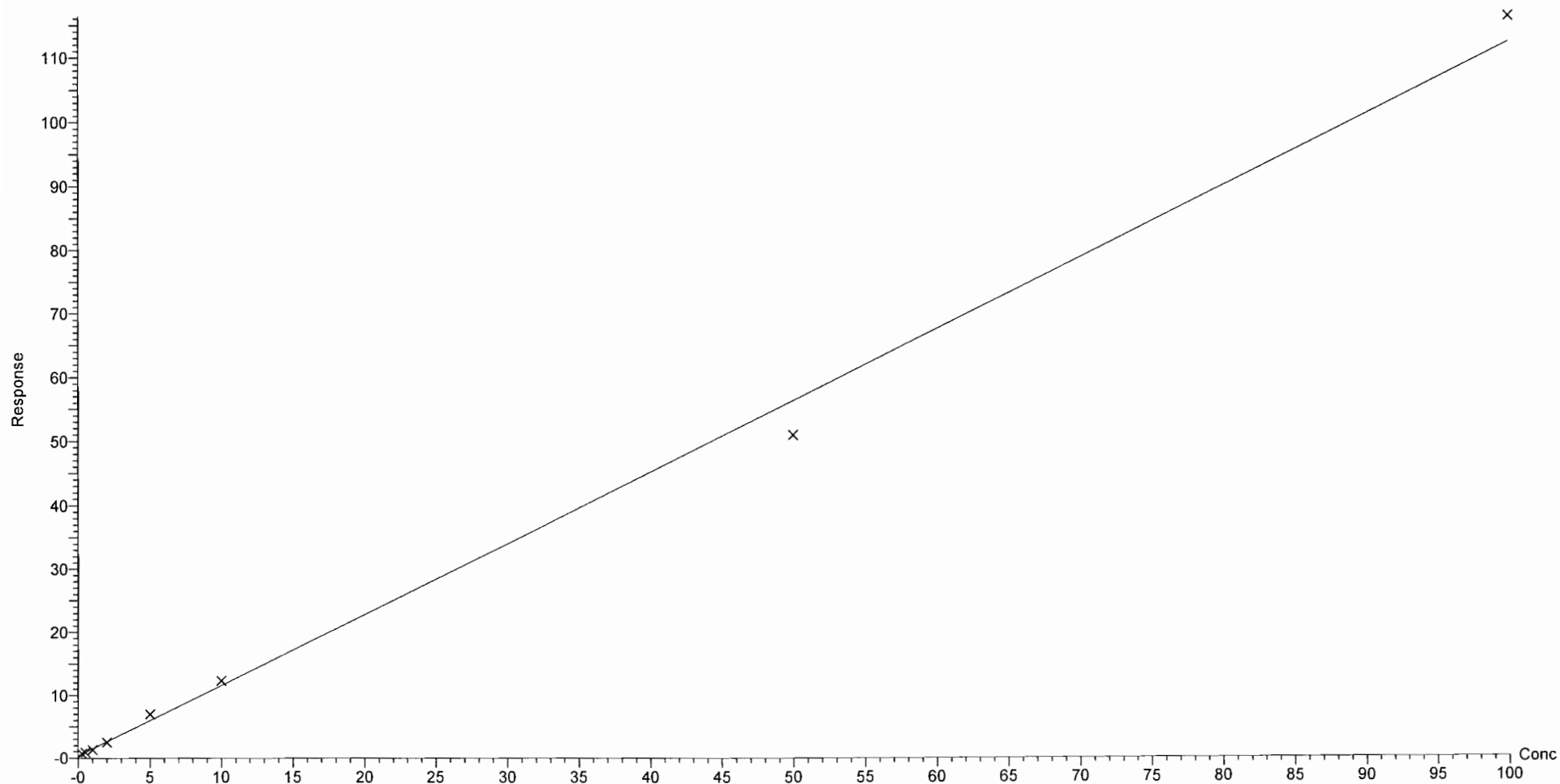
Compound name: L-PFOA

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

Calibration curve: $1.11967 * x + 0.355683$

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

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



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

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

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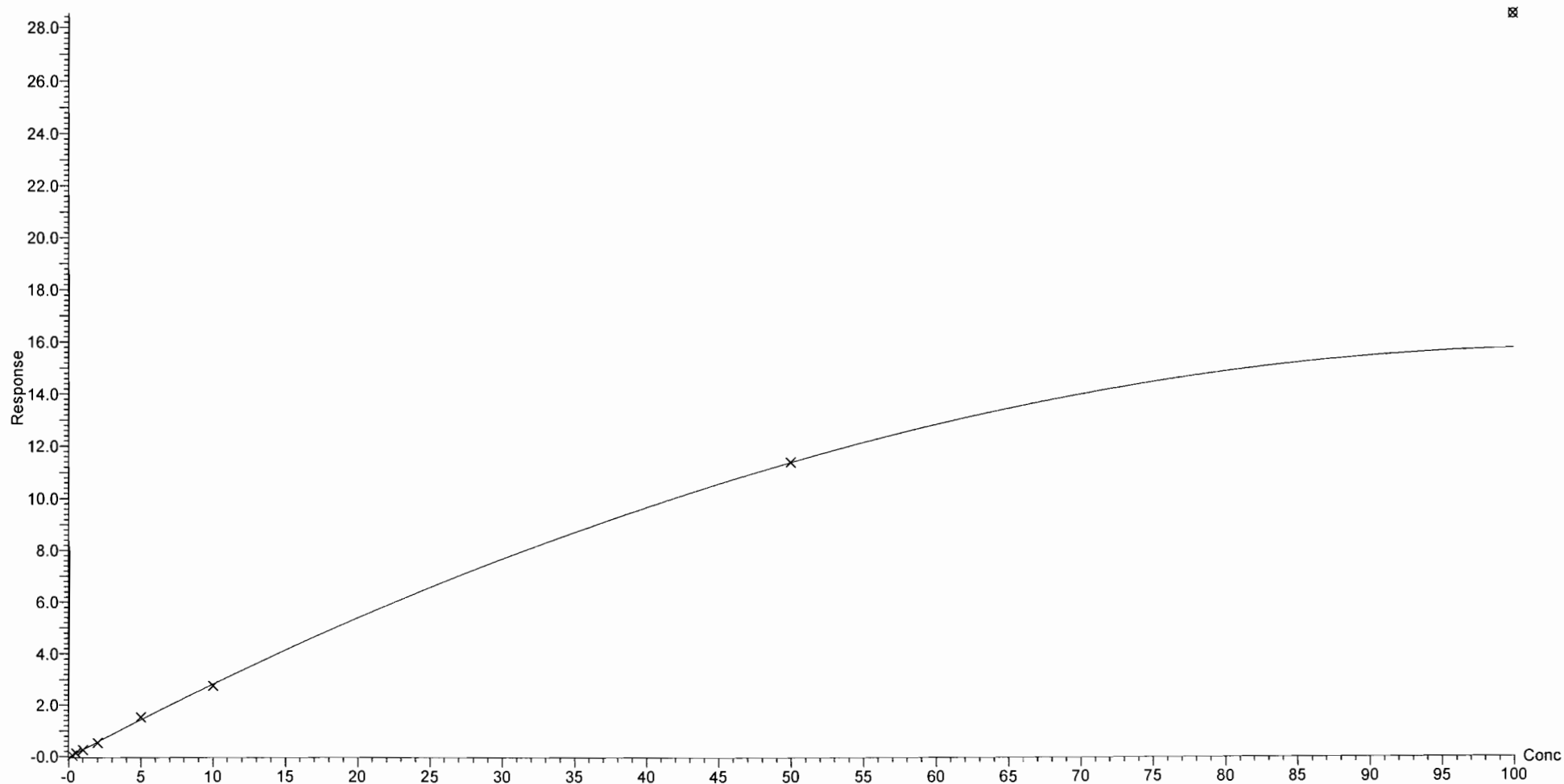
Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.998980$

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

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

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



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

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

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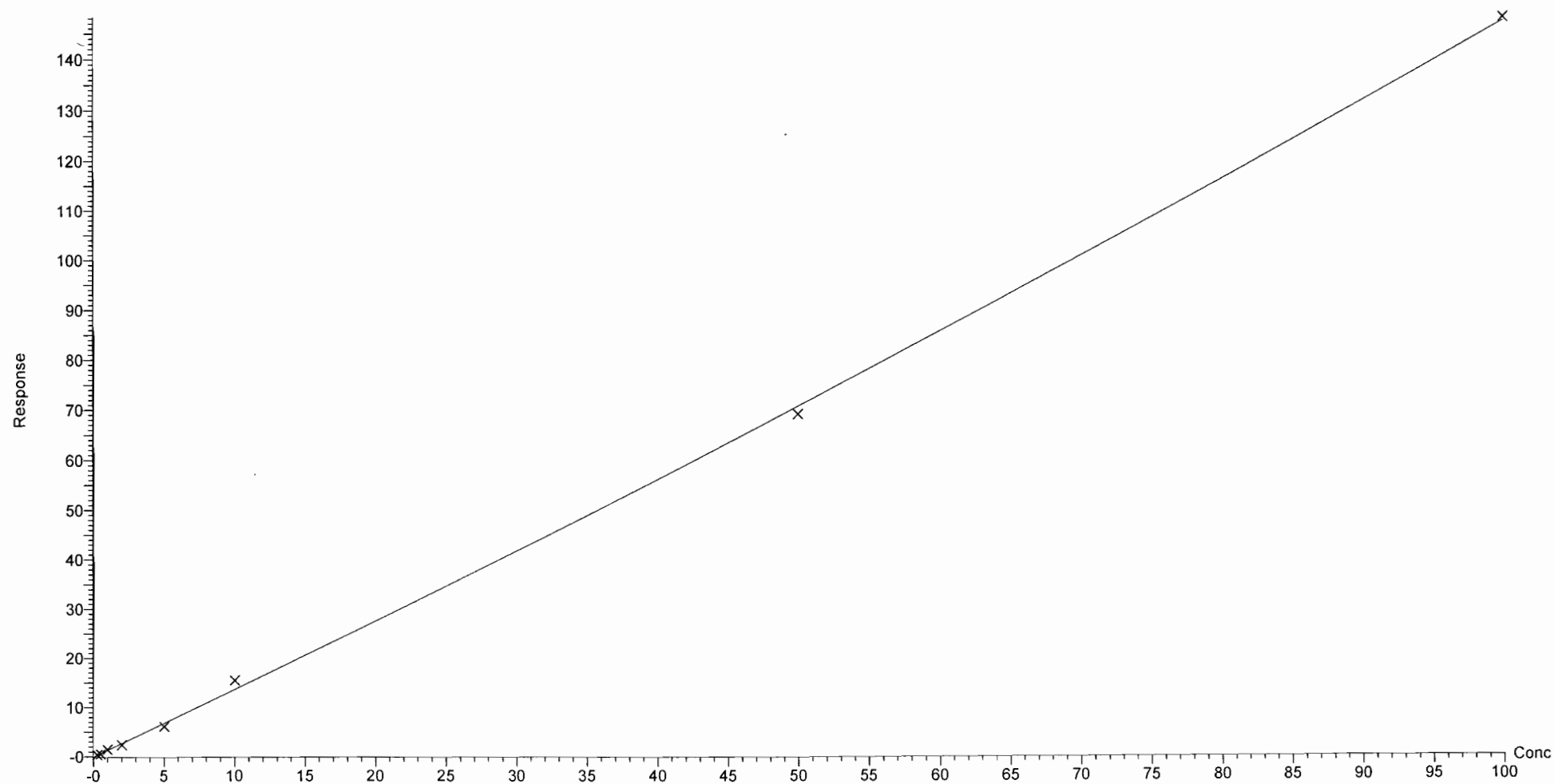
Compound name: PFNA

Coefficient of Determination: $R^2 = 0.998251$

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

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

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



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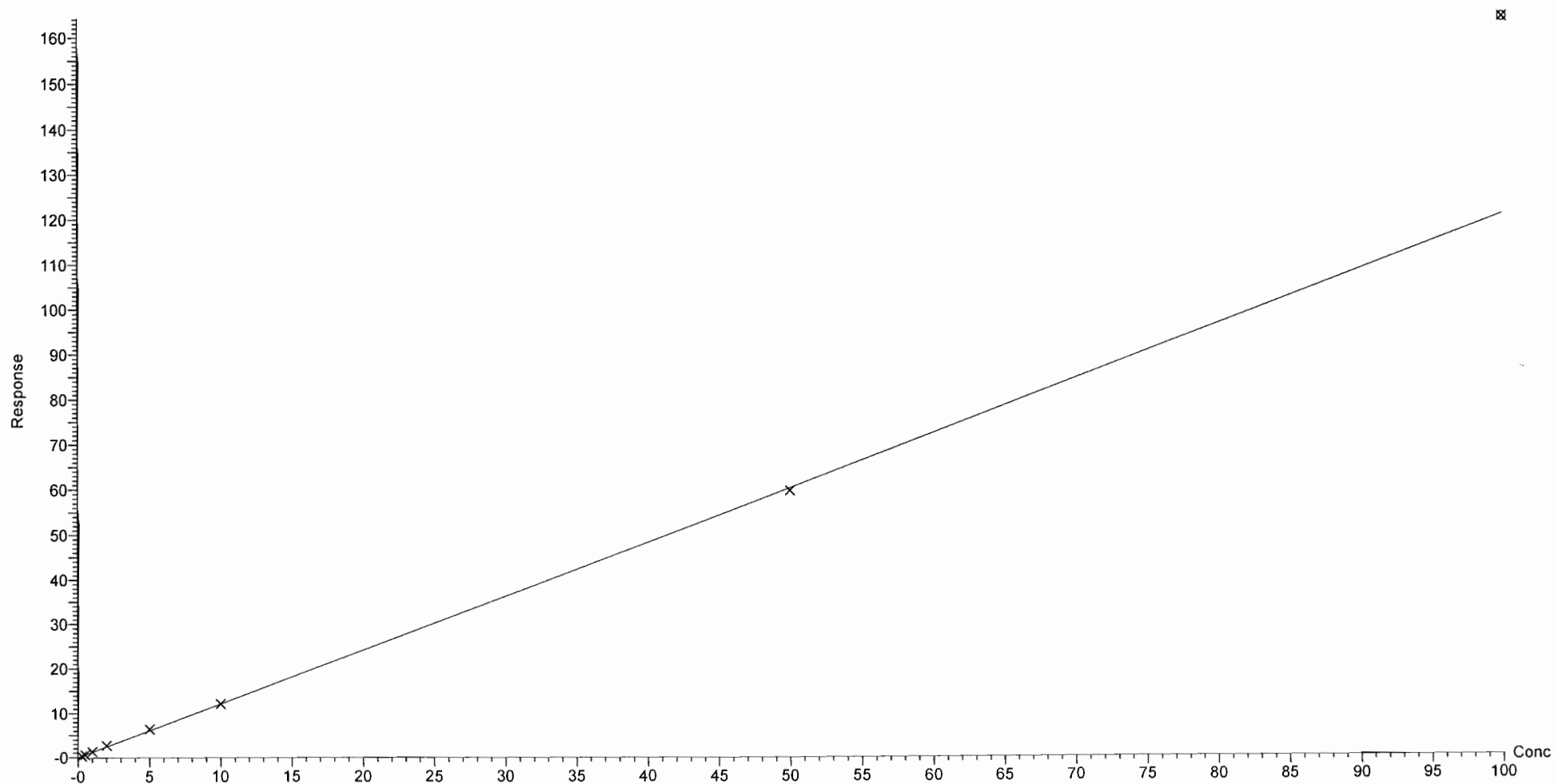
Compound name: PFOSA

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

Calibration curve: $1.2051 * x + -0.0242098$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

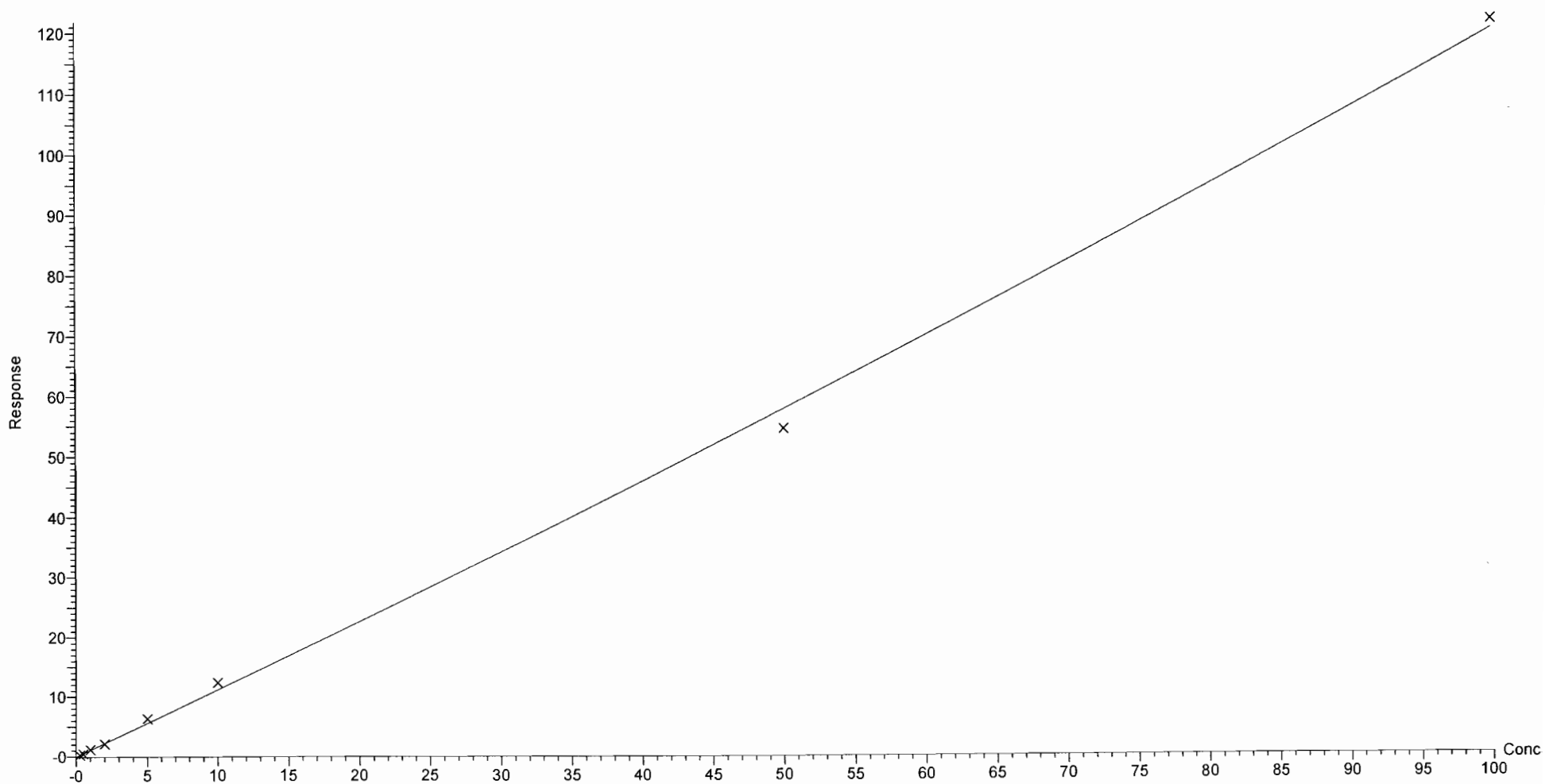
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



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

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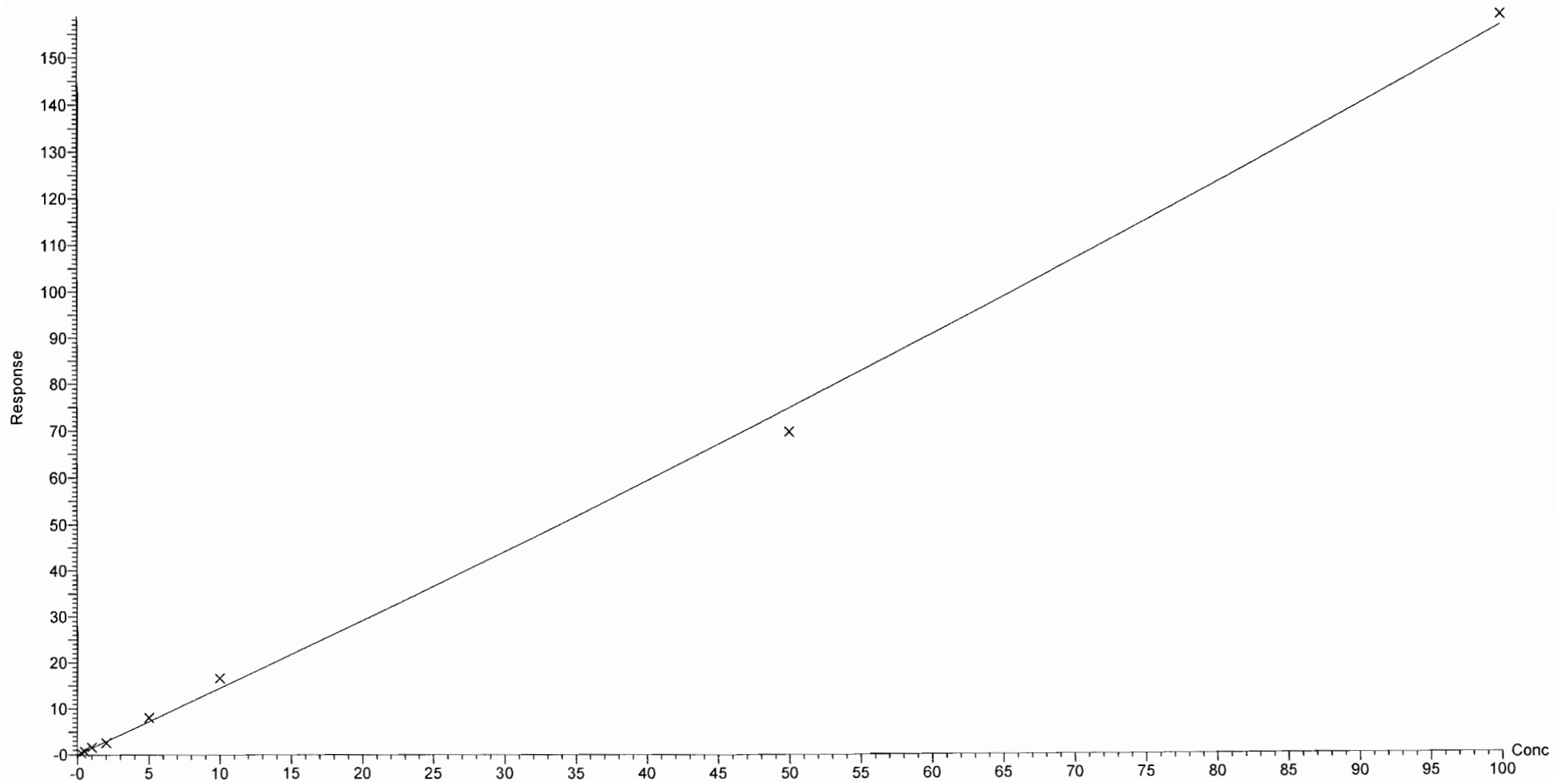
Compound name: L-PFOS
Coefficient of Determination: $R^2 = 0.997719$
Calibration curve: $0.000945797 * x^2 + 1.10838 * x + -0.0443788$
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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

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Compound name: PFDA
Coefficient of Determination: $R^2 = 0.996672$
Calibration curve: $0.0014094 * x^2 + 1.42444 * x + 0.0195565$
Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



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

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

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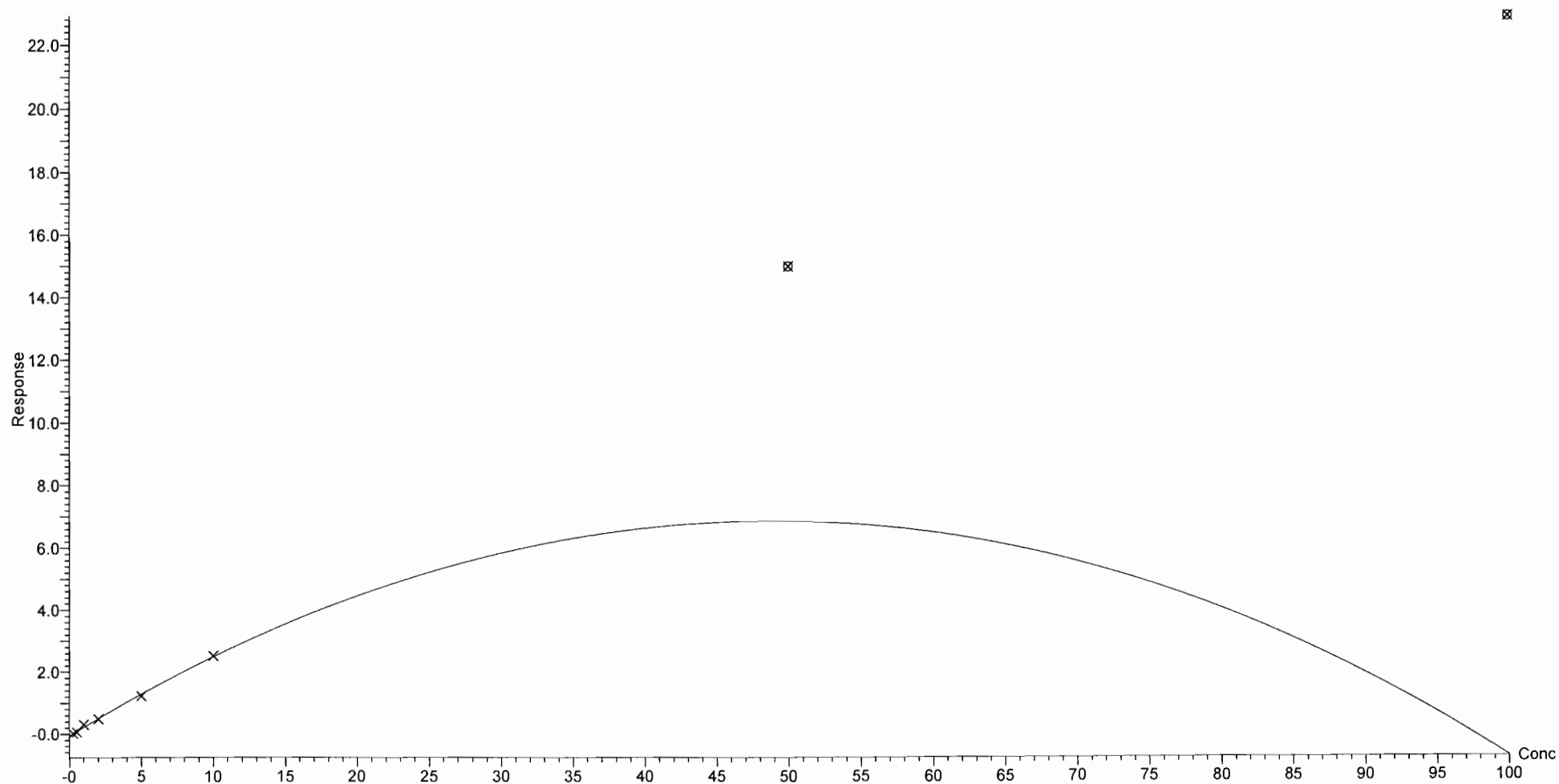
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.990883$

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

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

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



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

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

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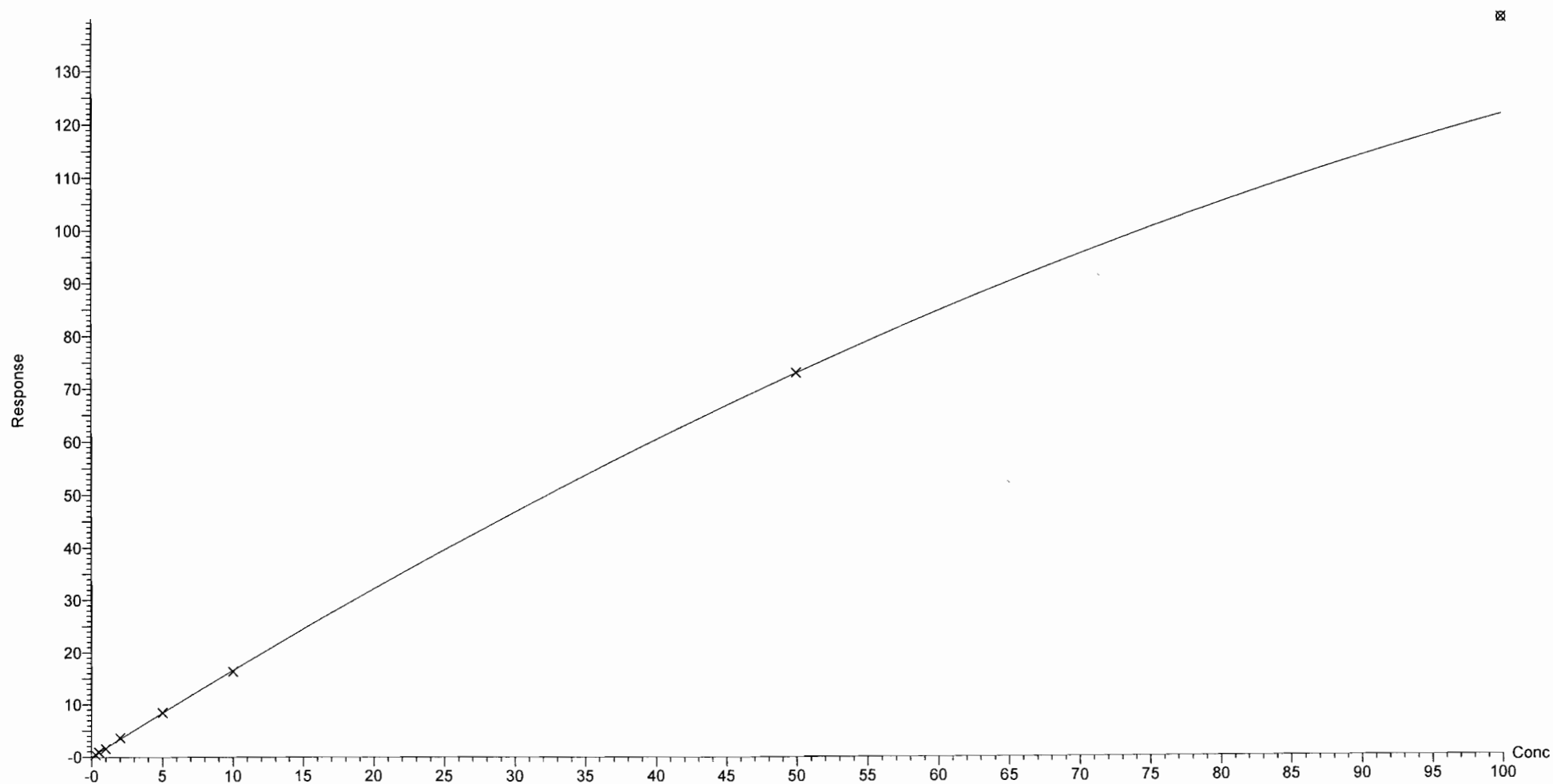
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.999579$

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

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

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



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

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

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

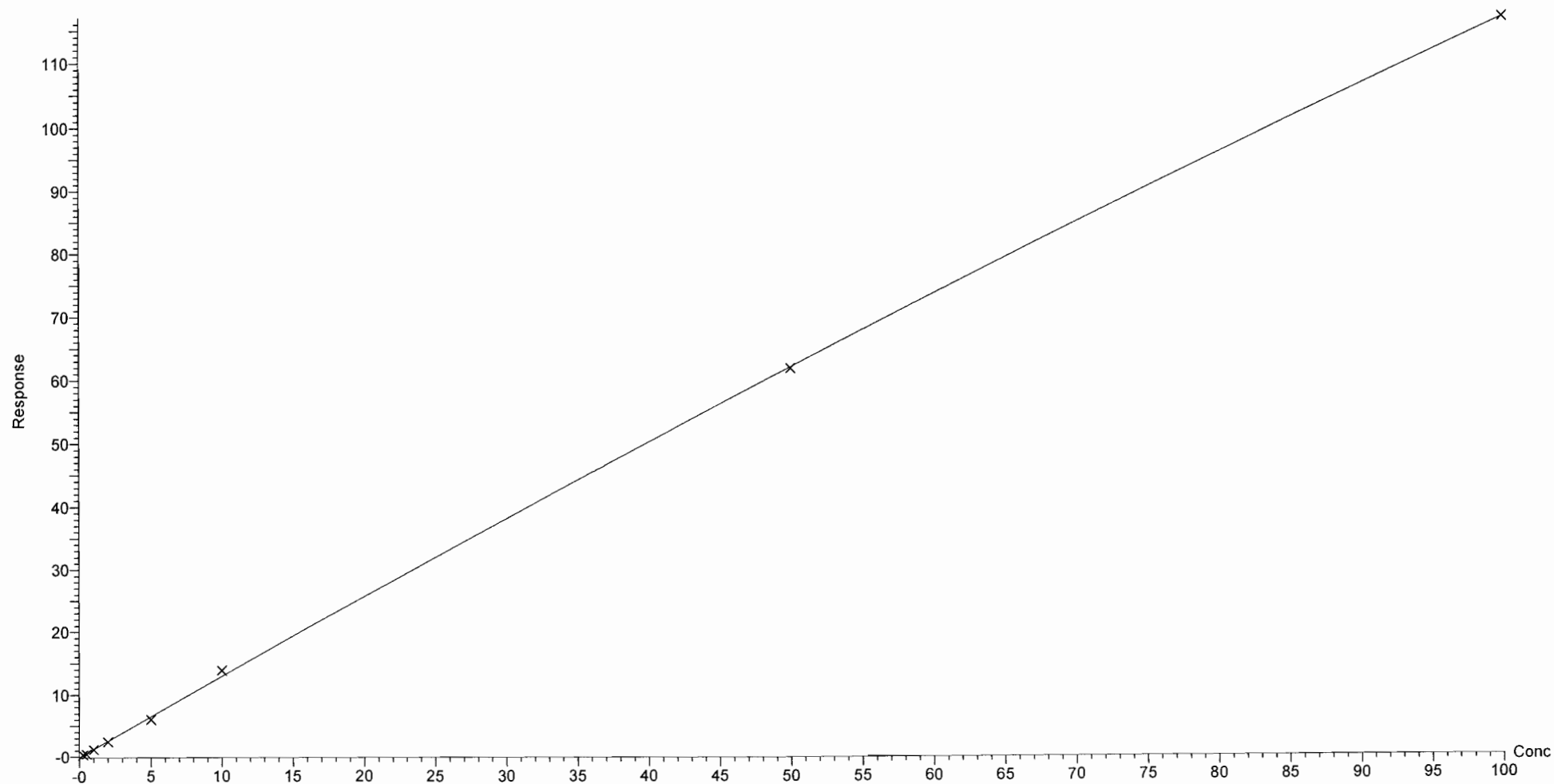
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999053$

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

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

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



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

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

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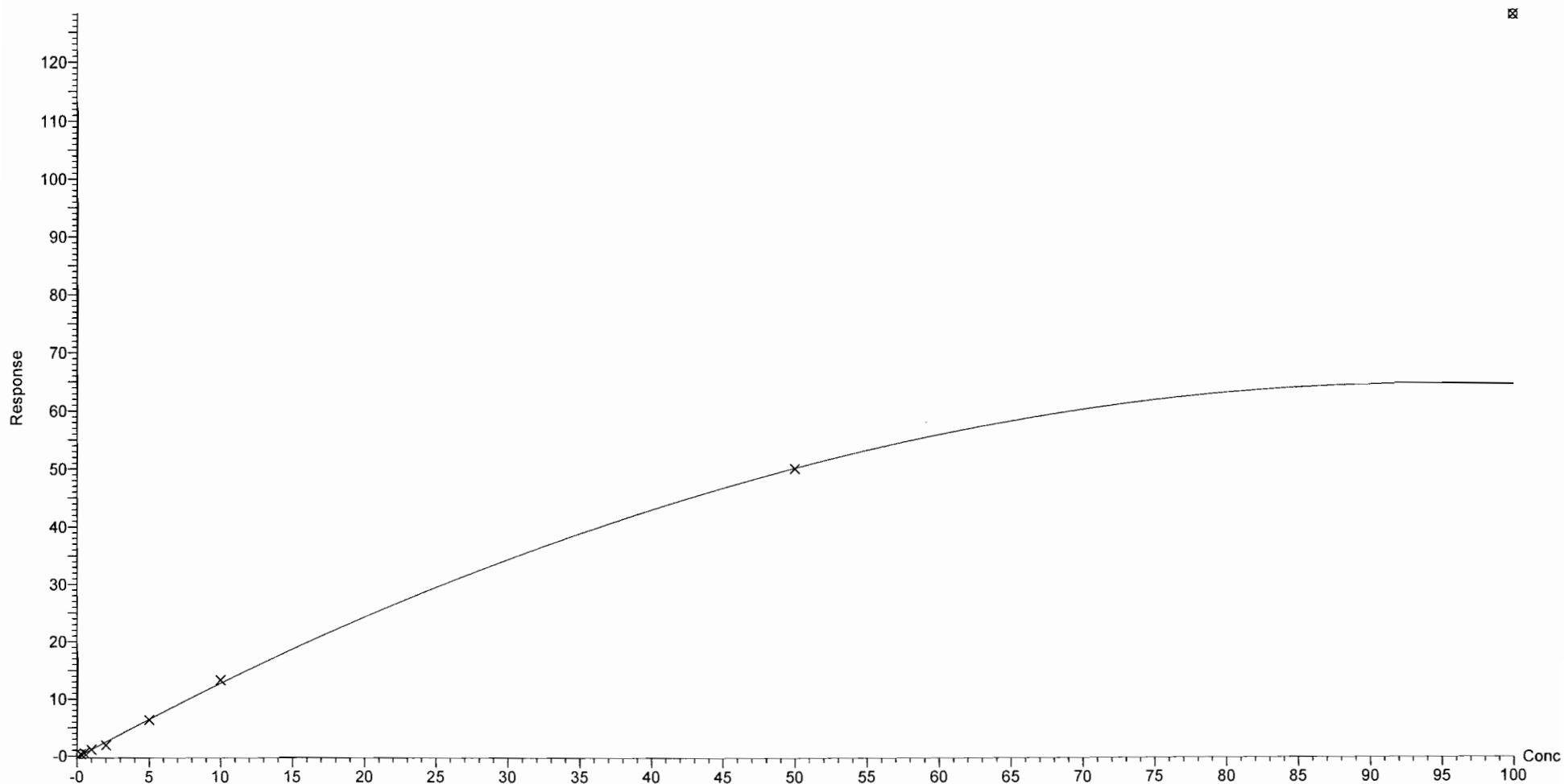
Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.996917$

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

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

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



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

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

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

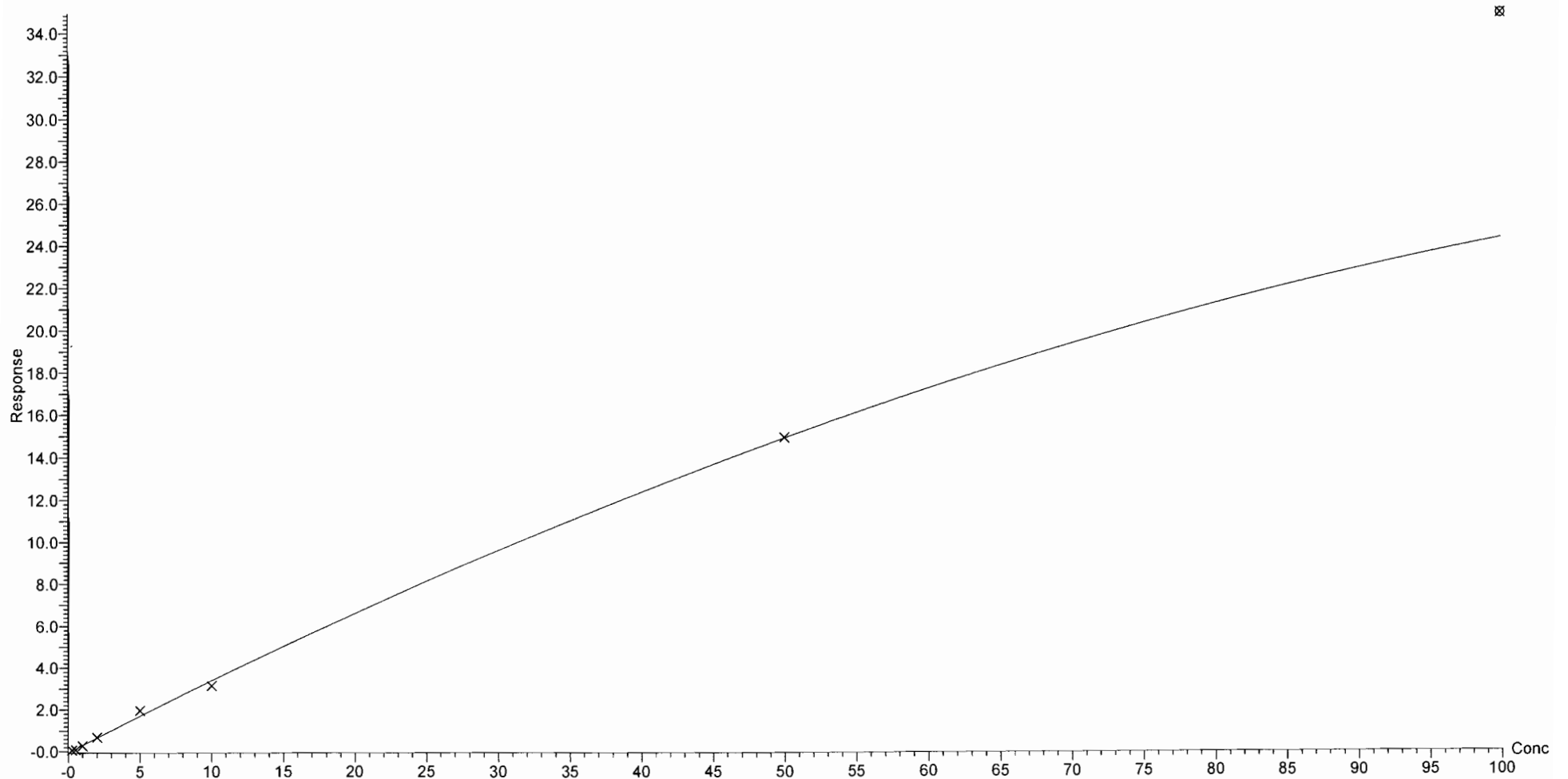
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.995370$

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

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

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



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

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

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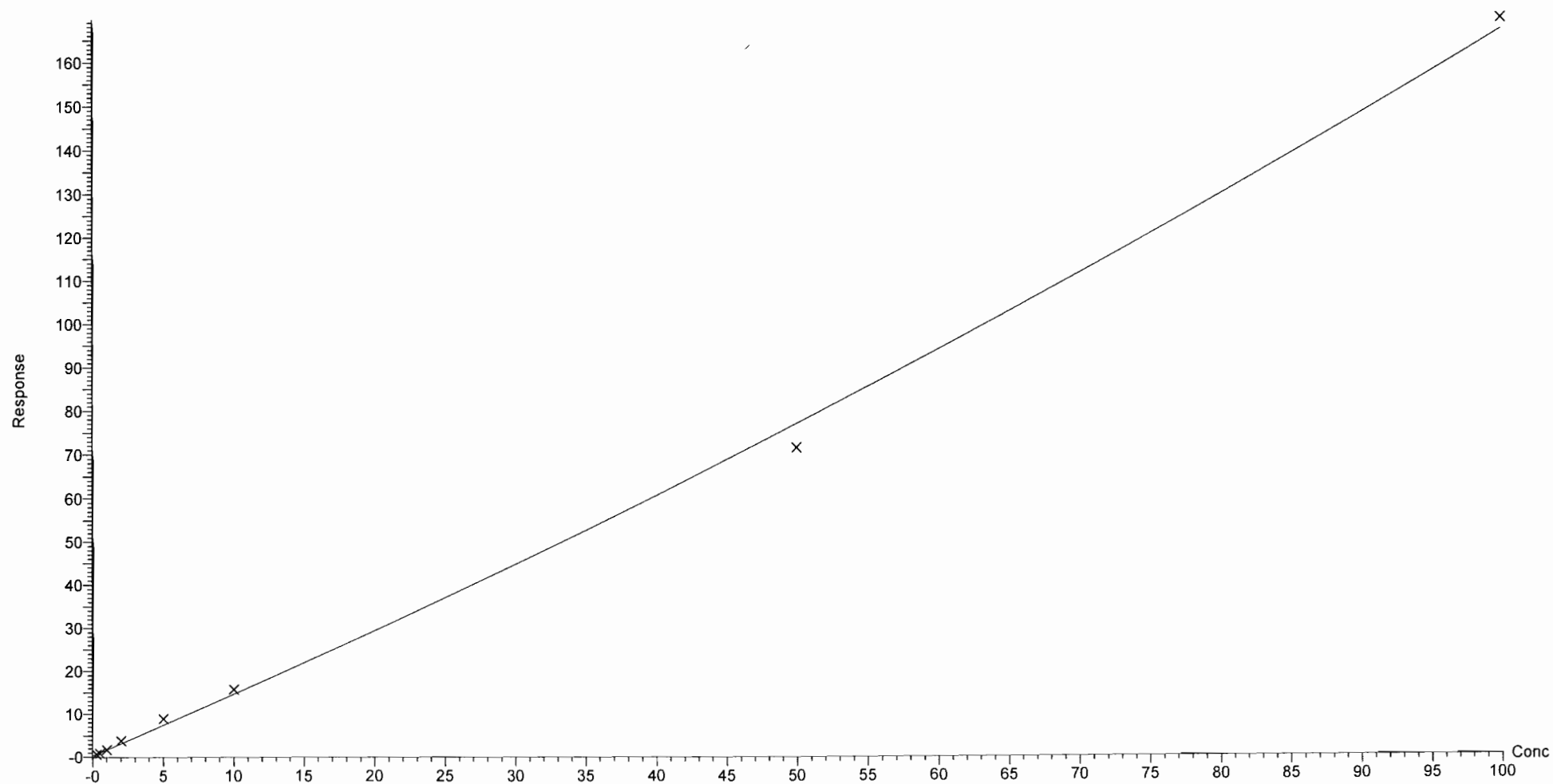
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.996448$

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

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

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



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

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

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

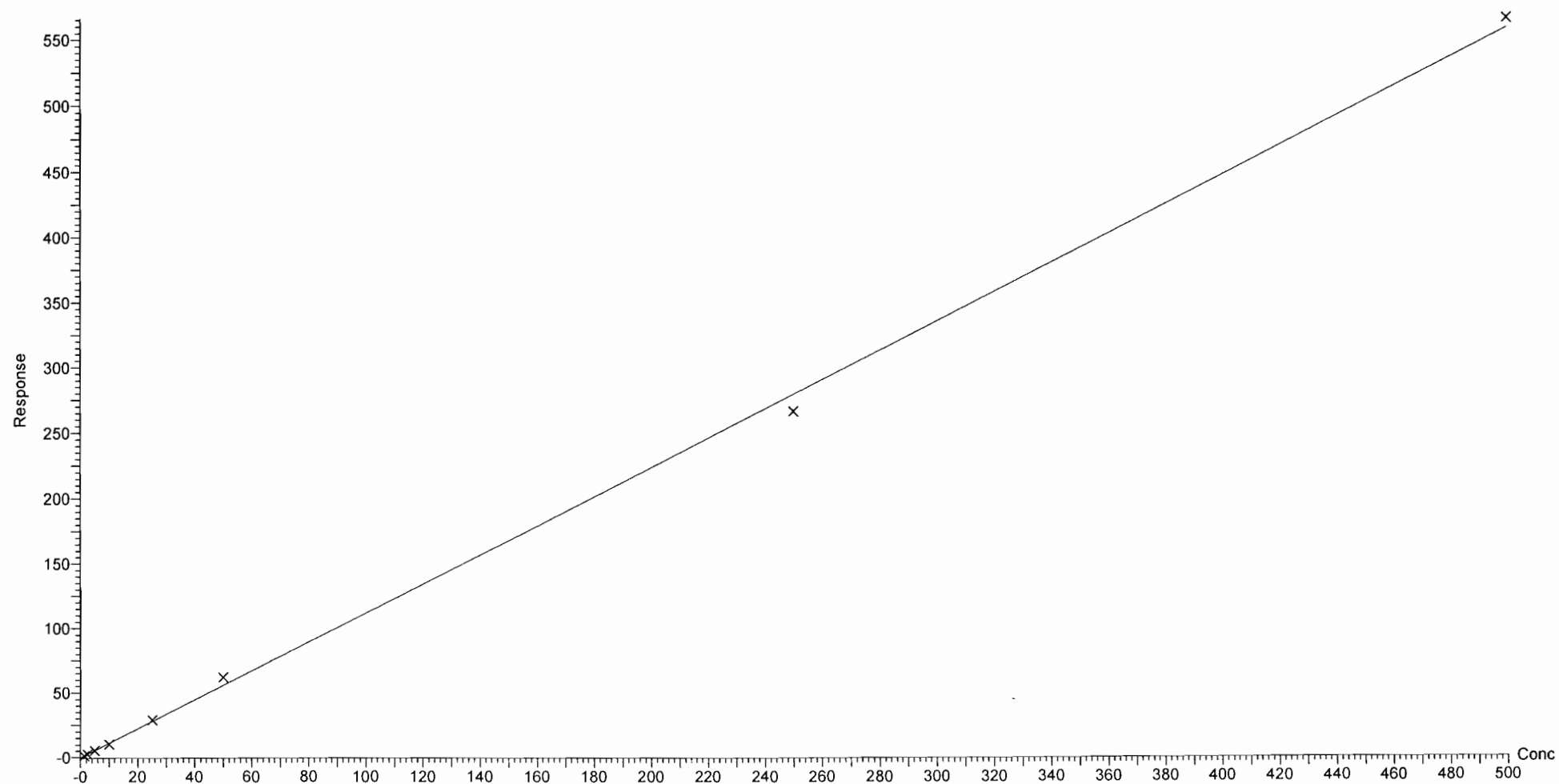
Compound name: N-MeFOSA

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

Calibration curve: $1.1181 * x + -0.100317$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

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



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

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

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

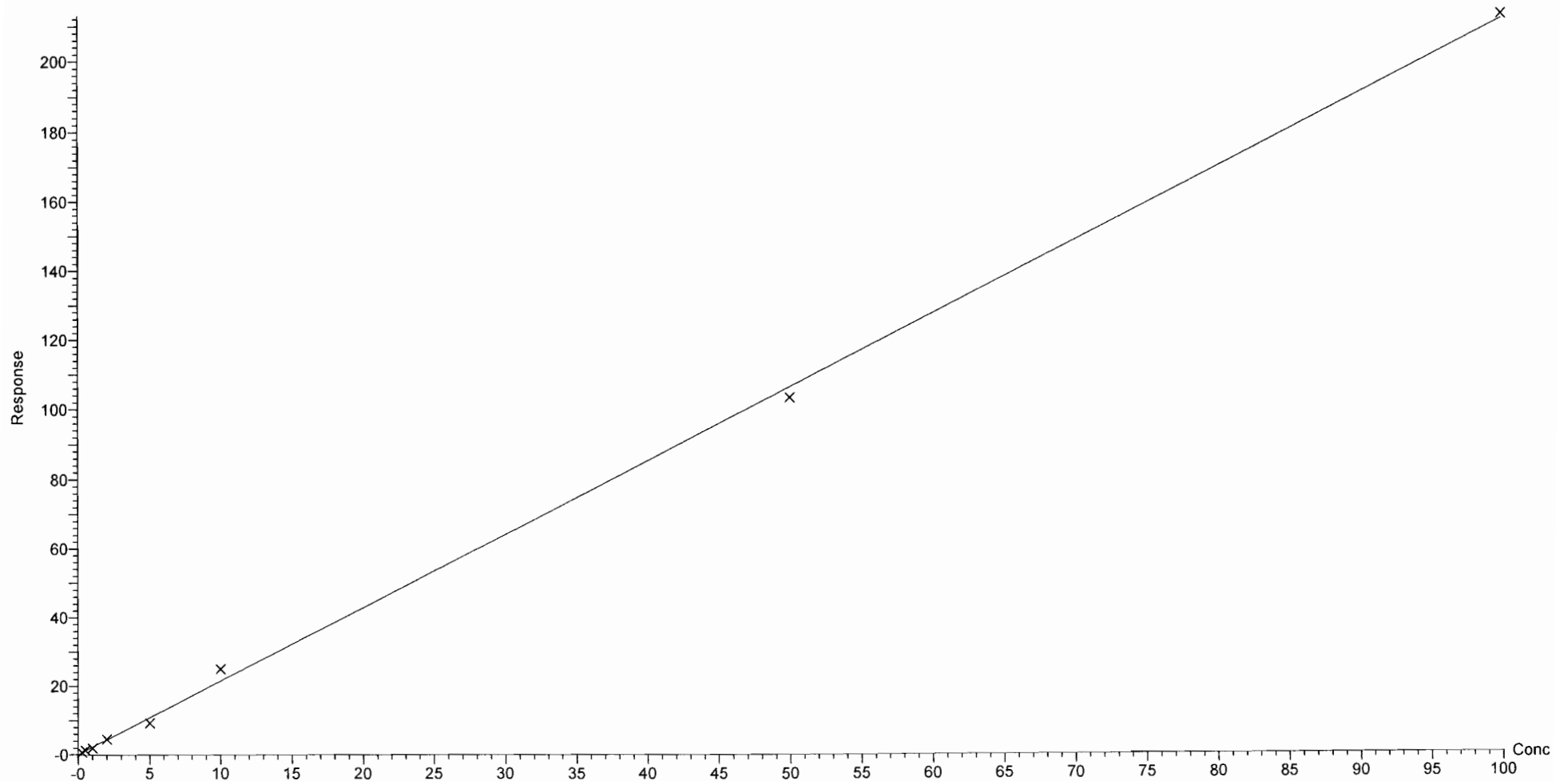
Compound name: PFTrDA

Coefficient of Determination: $R^2 = 0.997156$

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

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

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



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

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

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

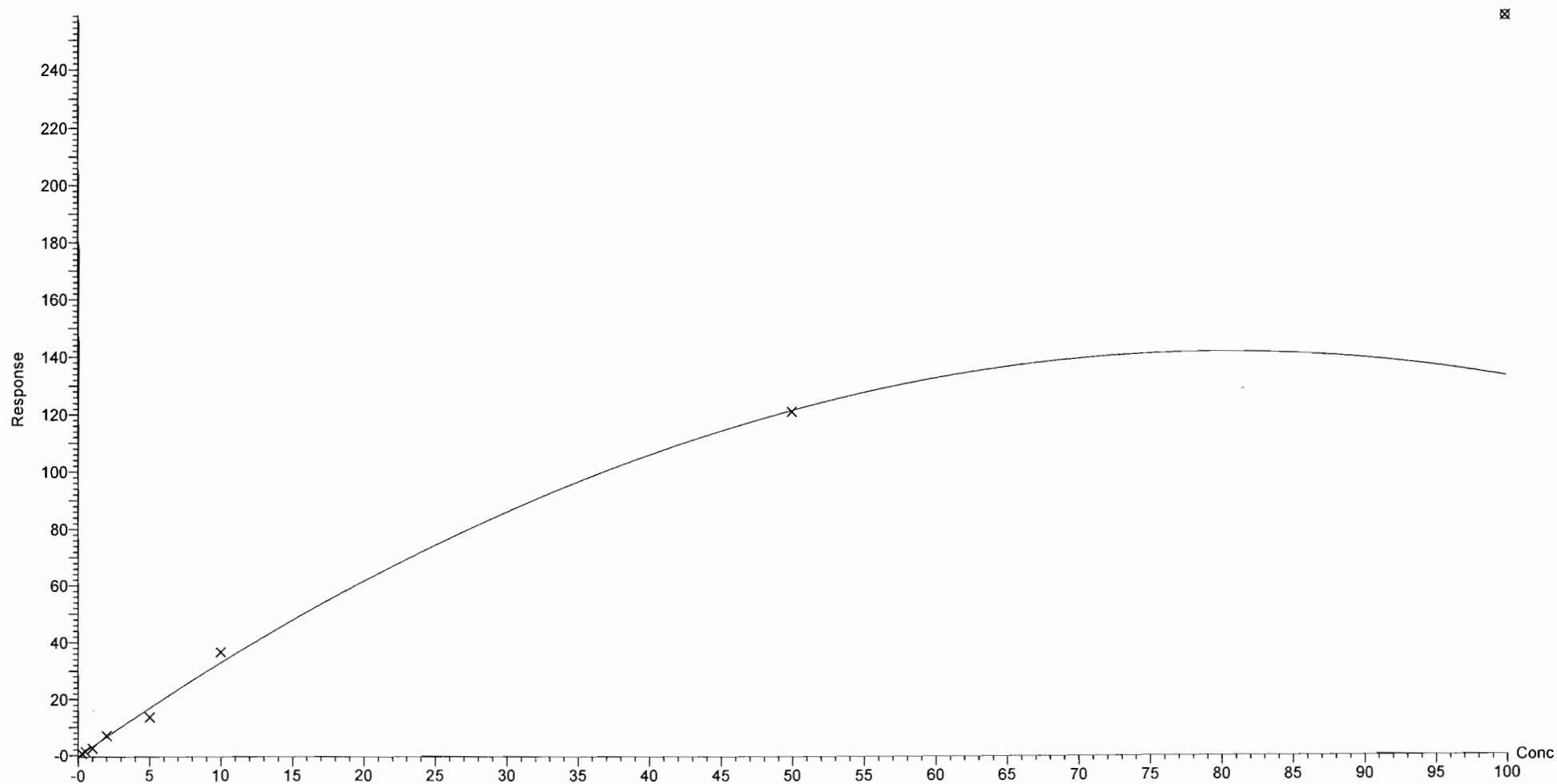
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.990929$

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

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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



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

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

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

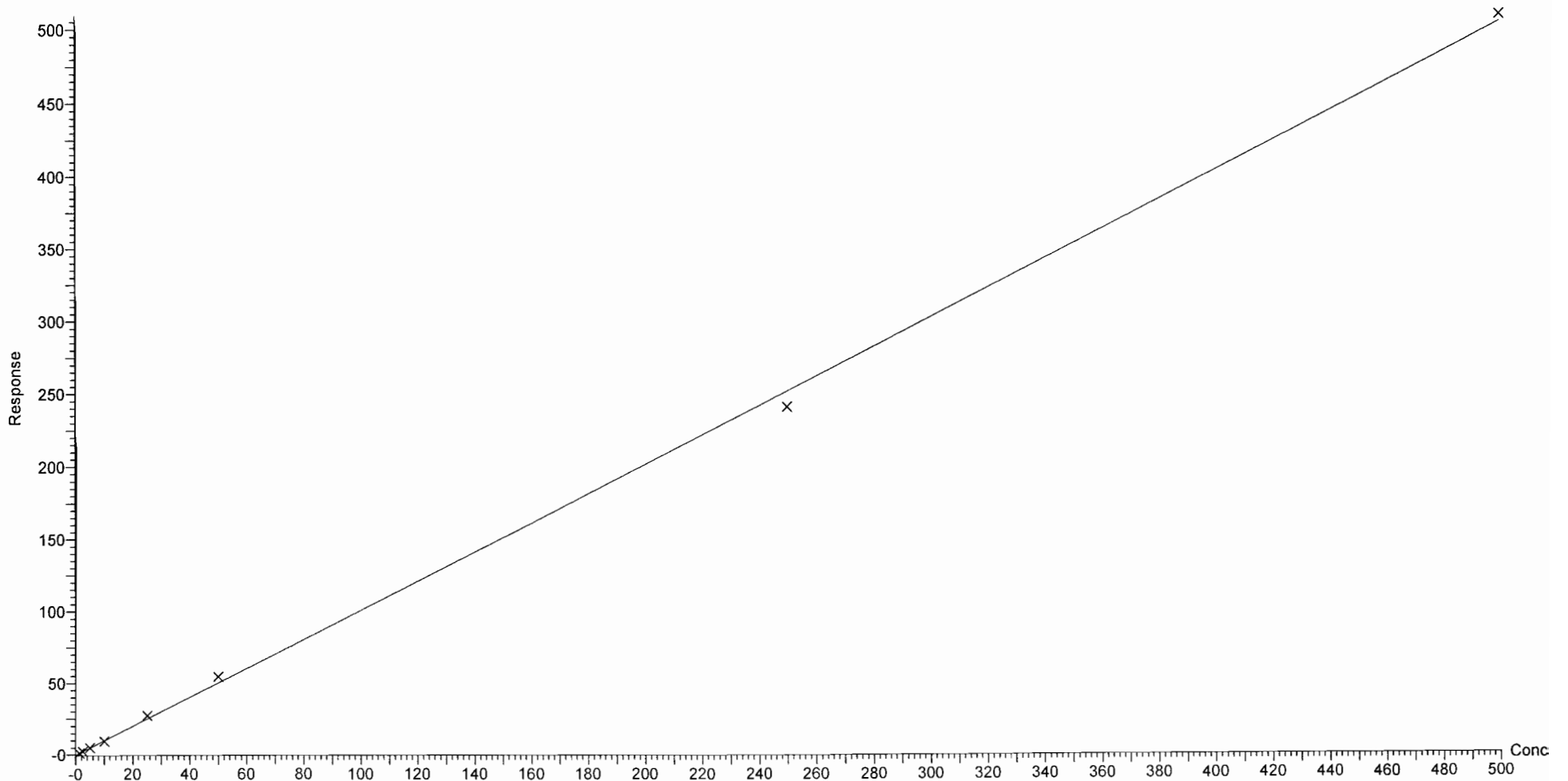
Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.998672$

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

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

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



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

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

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

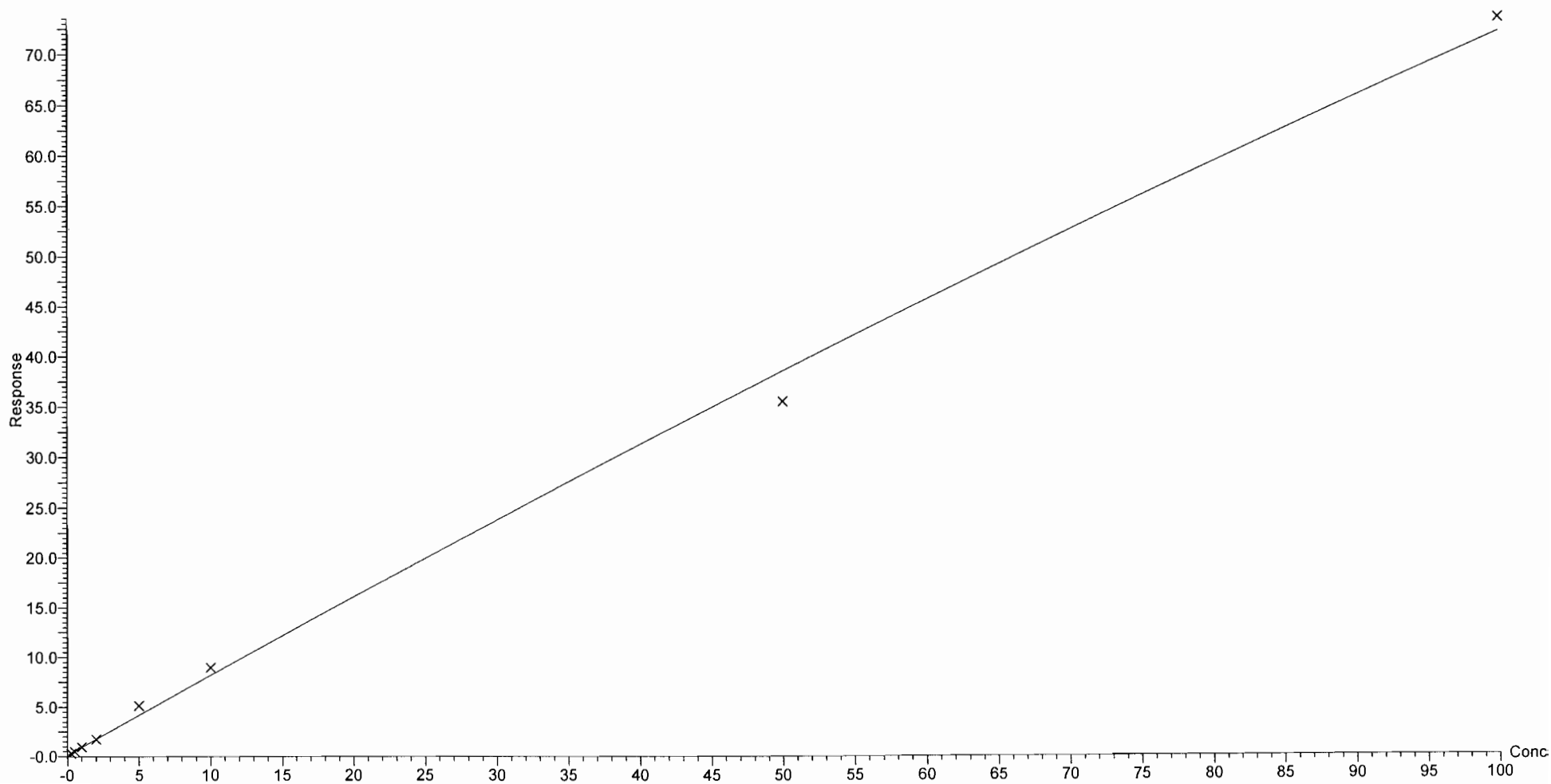
Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.994875$

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

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

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



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

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

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

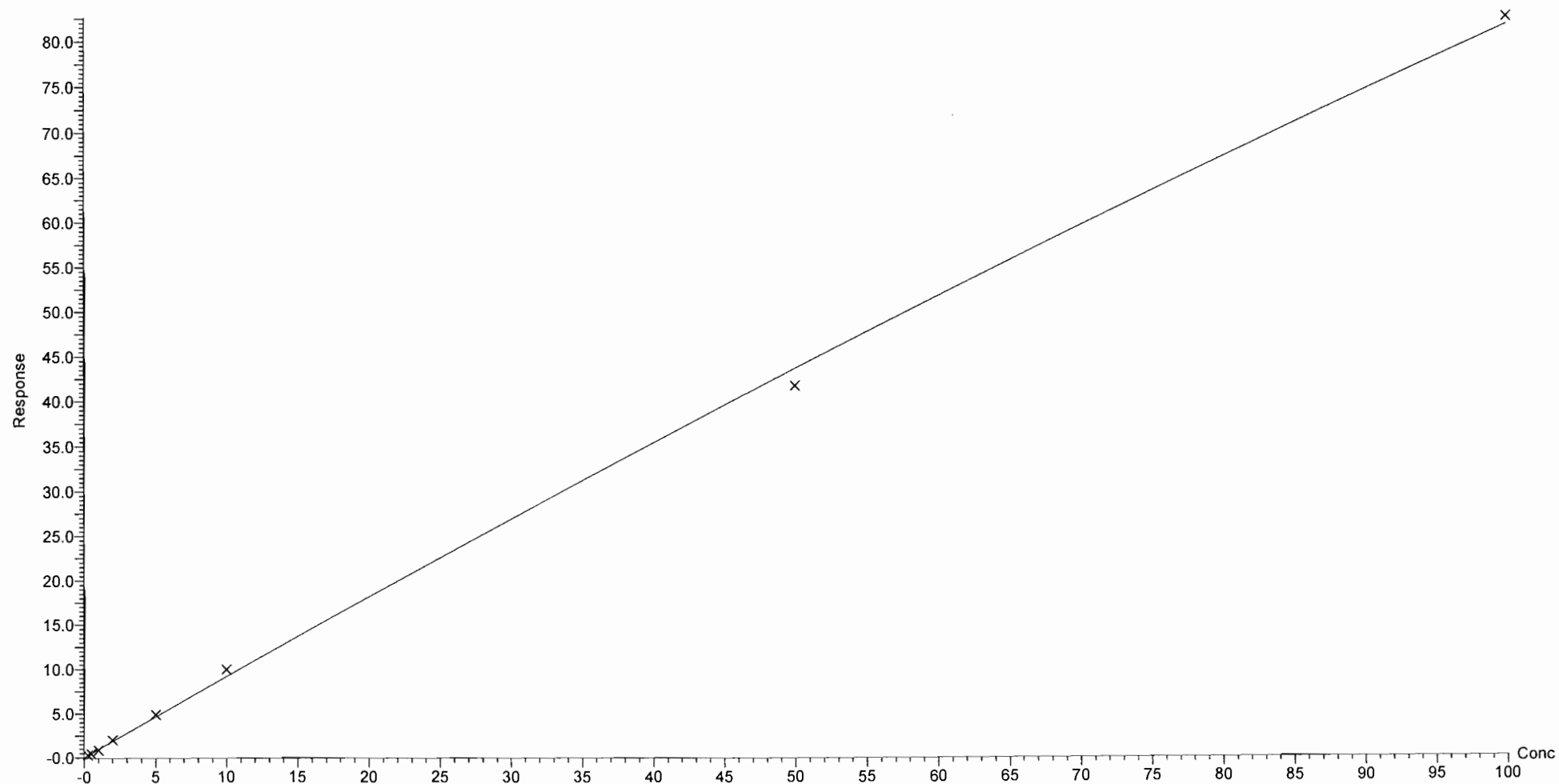
Compound name: PFODA

Coefficient of Determination: $R^2 = 0.998411$

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

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

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



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

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

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

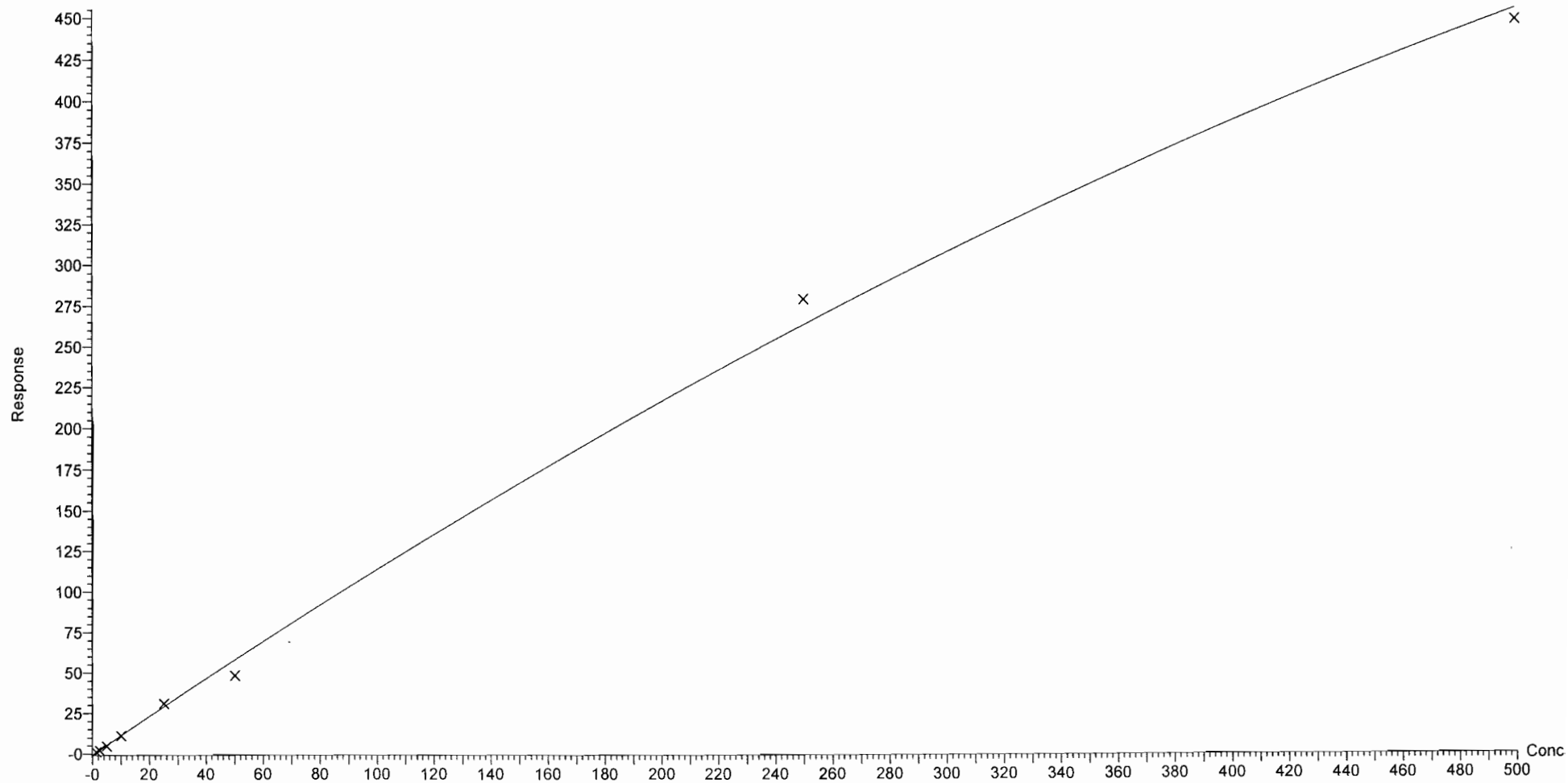
Compound name: N-MeFOSE

Coefficient of Determination: $R^2 = 0.995669$

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

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

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



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

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

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

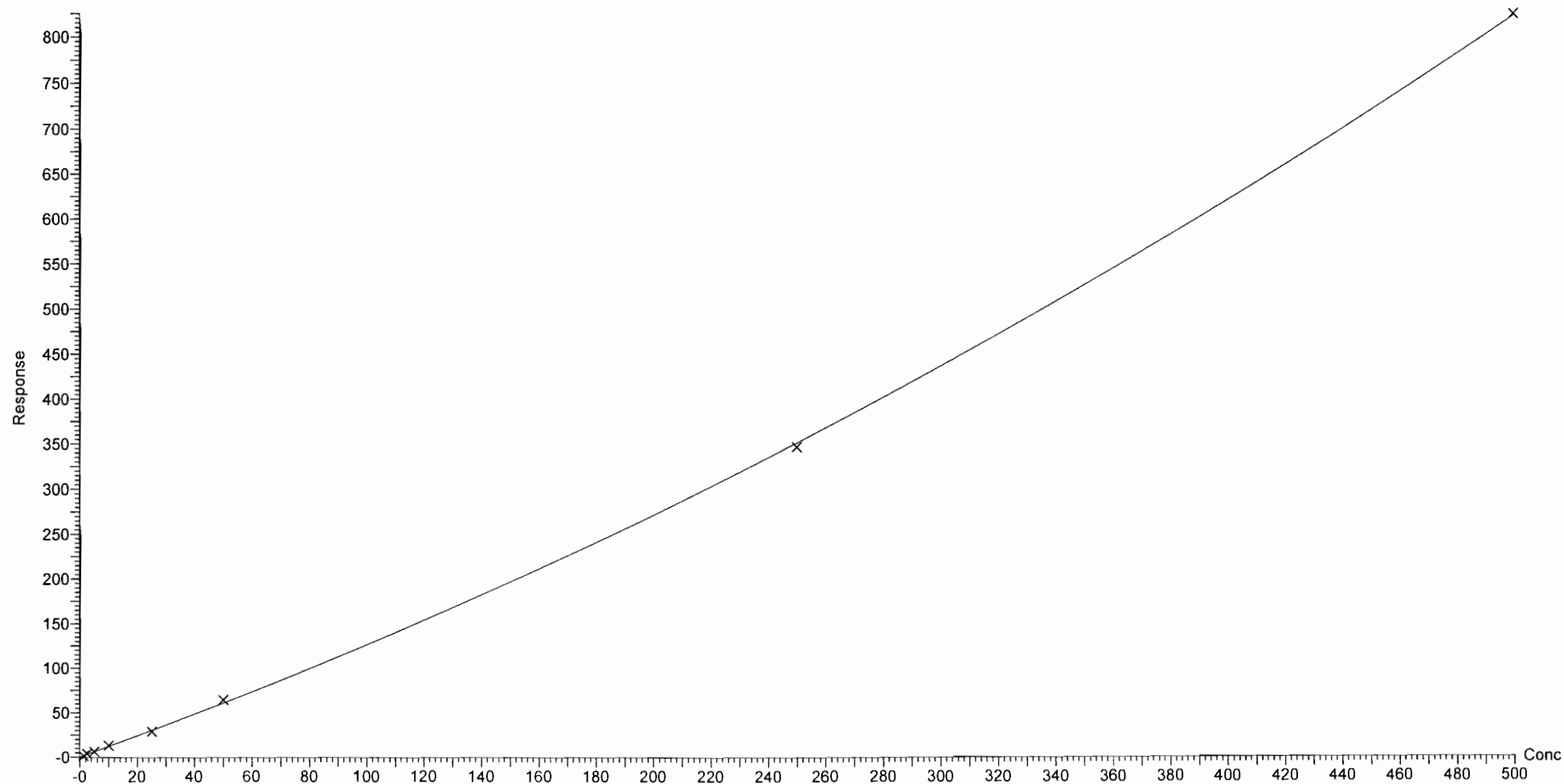
Compound name: N-EtFOSE

Coefficient of Determination: $R^2 = 0.999660$

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

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

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



Dataset: Untitled

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

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

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

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

Compound name: PFBA

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

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

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

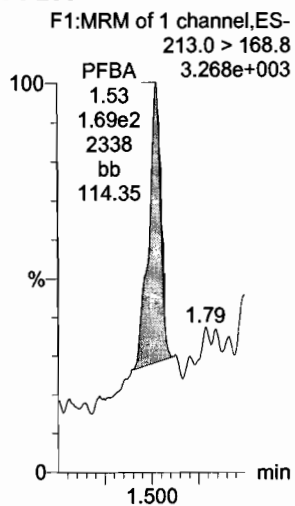
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

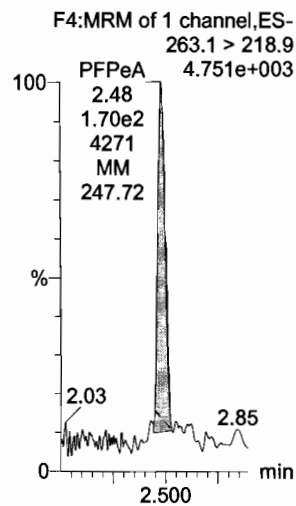
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 09:37:18

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

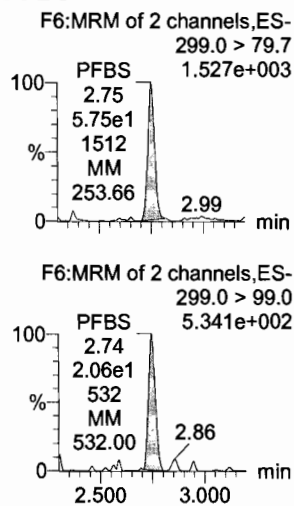
PFBA



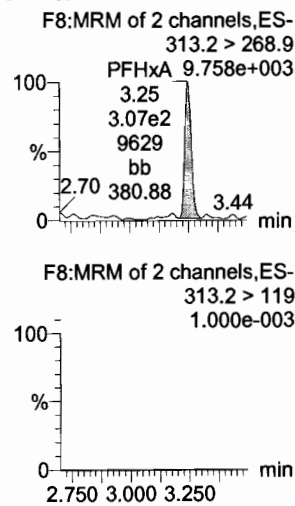
PFPeA



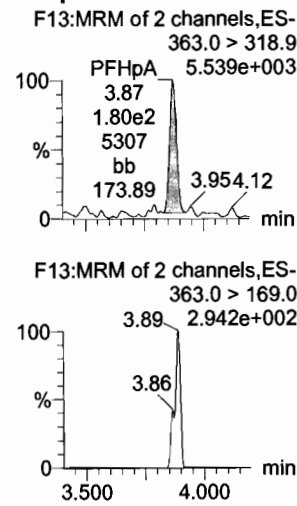
PFBS



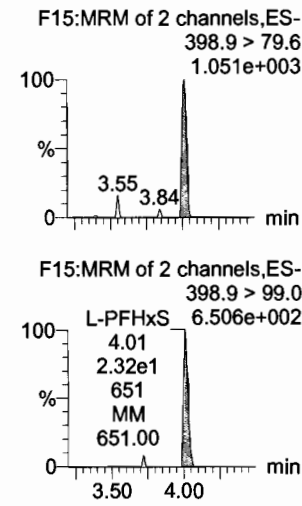
PFHxA



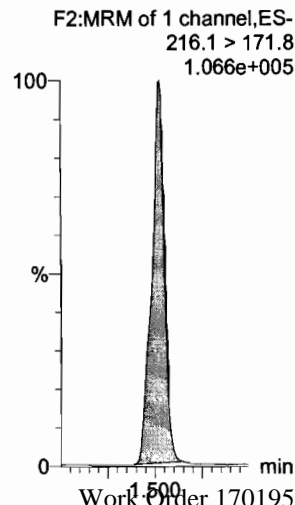
PFHpA



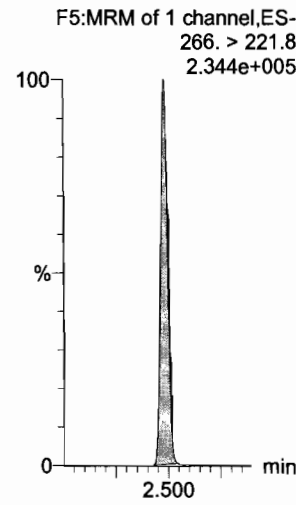
L-PFHxS



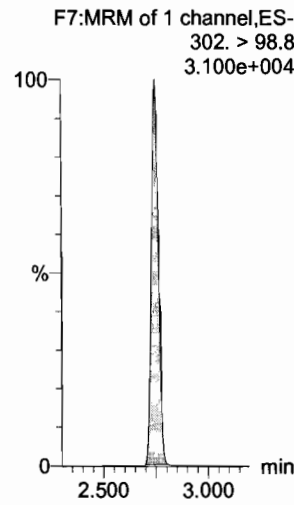
13C3-PFBA



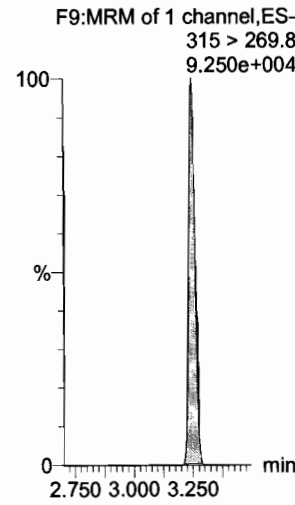
13C3-PFPeA



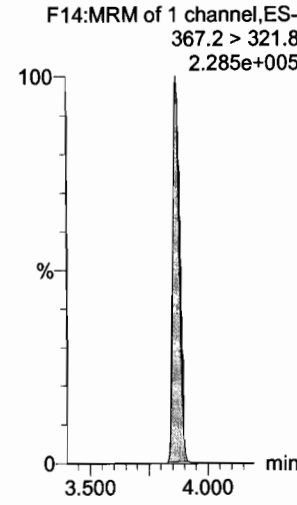
13C3-PFBS



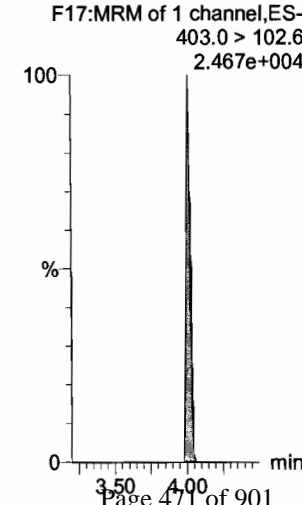
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

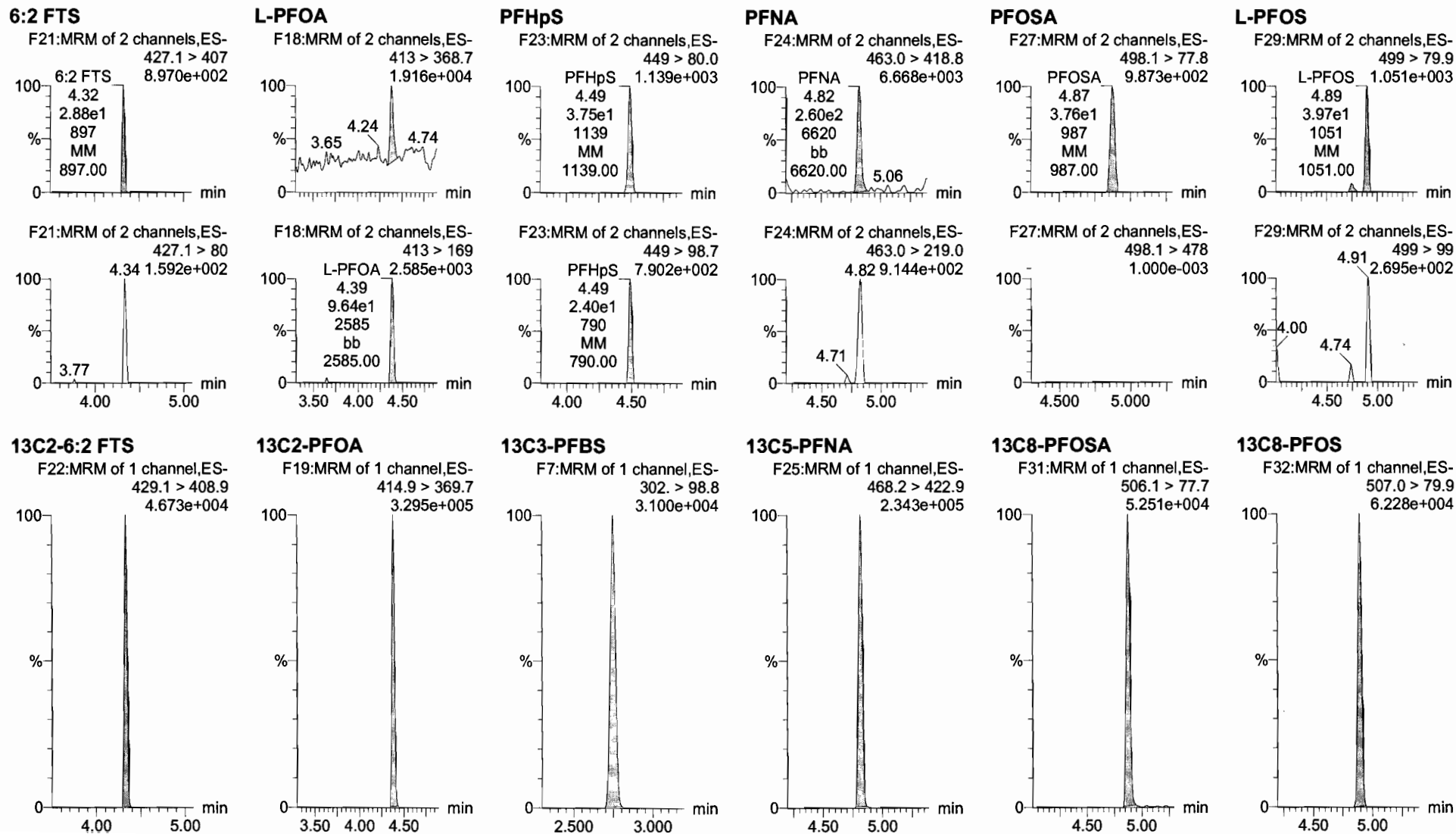


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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



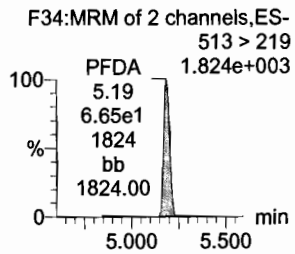
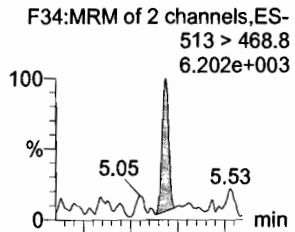
Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

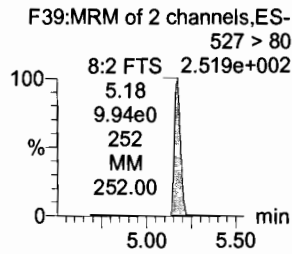
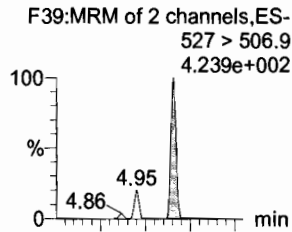
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

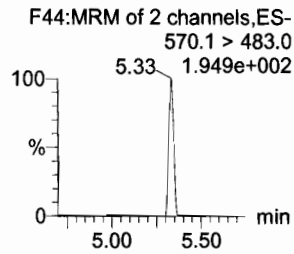
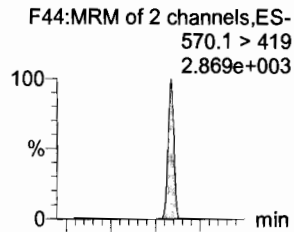
PFDA



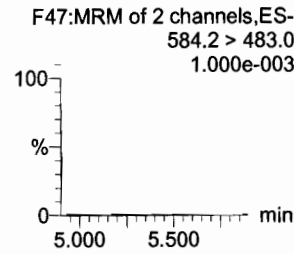
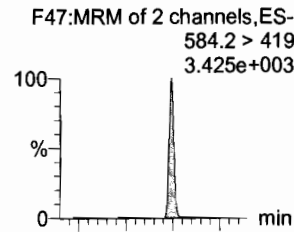
8:2 FTS



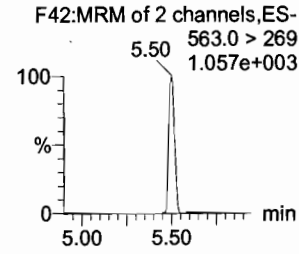
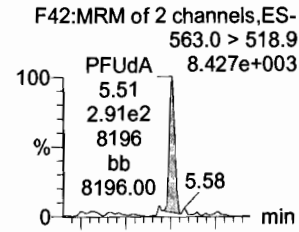
N-MeFOSAA



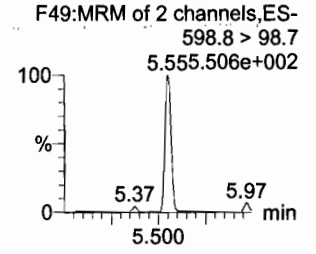
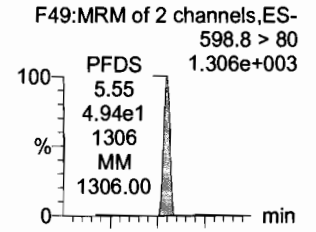
N-EtFOSAA



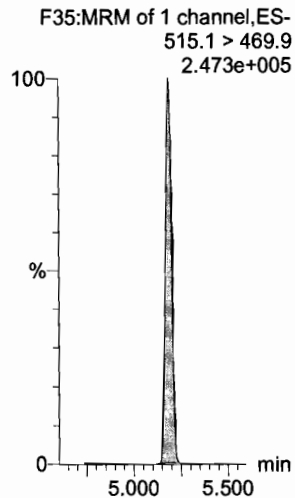
PFUdA



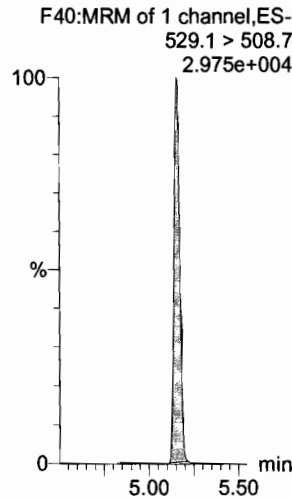
PFDS



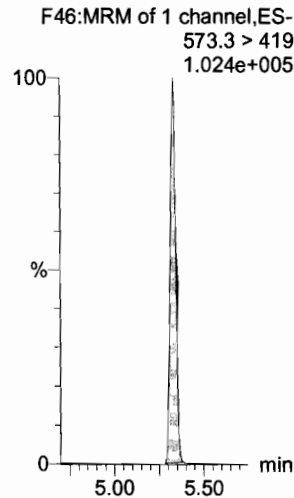
13C2-PFDA



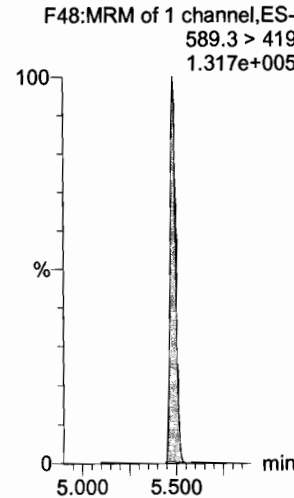
13C2-8:2 FTS



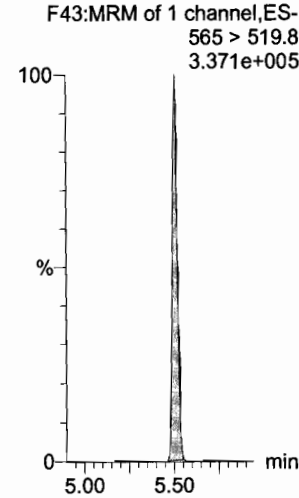
d3-N-MeFOSAA



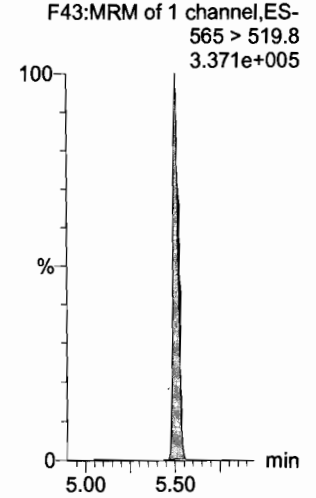
d5-N-EtFOSAA



13C2-PFUdA



13C2-PFUdA



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

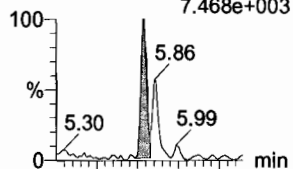
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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

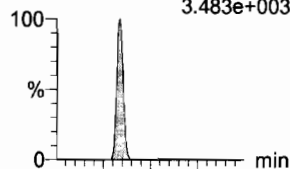
PFDaA

F50:MRM of 2 channels,ES-
612.9 > 569.0
7.468e+003



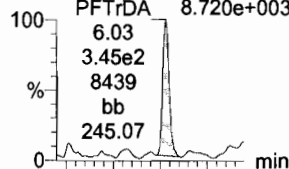
N-MeFOSA

F33:MRM of 2 channels,ES-
512.1 > 168.9
3.483e+003



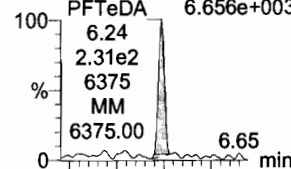
PFTrDA

F56:MRM of 2 channels,ES-
662.9 > 618.9
8.720e+003



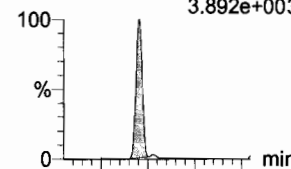
PFTeDA

F57:MRM of 2 channels,ES-
712.9 > 668.8
6.656e+003



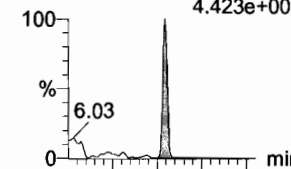
N-EtFOSA

F38:MRM of 2 channels,ES-
526.1 > 168.9
3.892e+003

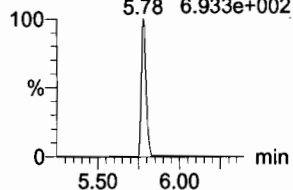


PFHxDA

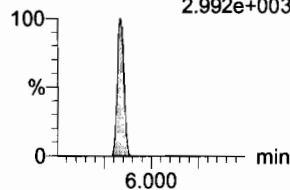
F59:MRM of 2 channels,ES-
813.1 > 768.6
4.423e+003



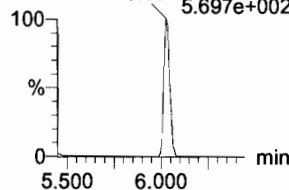
F50:MRM of 2 channels,ES-
612.9 > 318.8
6.933e+002



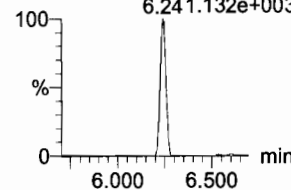
F33:MRM of 2 channels,ES-
512.1 > 219
2.992e+003



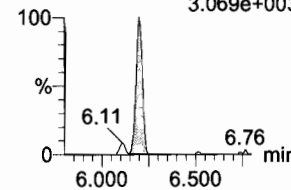
F56:MRM of 2 channels,ES-
662.9 > 319
5.697e+002



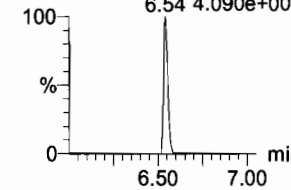
F57:MRM of 2 channels,ES-
712.9 > 369
6.241.132e+003



F38:MRM of 2 channels,ES-
526.1 > 219
3.069e+003

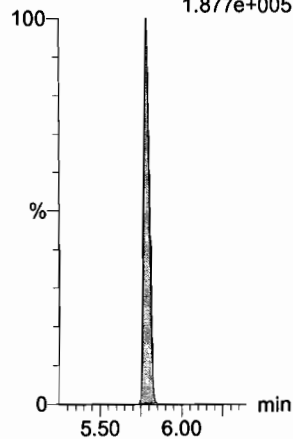


F59:MRM of 2 channels,ES-
813.1 > 219
4.090e+002



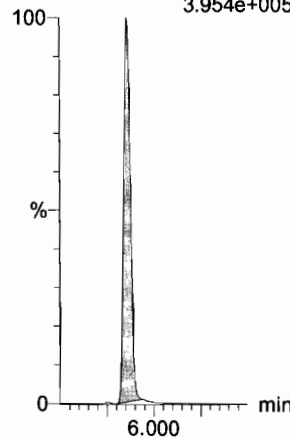
13C2-PFDaA

F51:MRM of 1 channel,ES-
615.0 > 569.7
1.877e+005



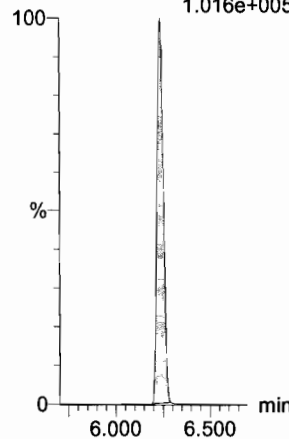
d3-N-MeFOSA

F36:MRM of 1 channel,ES-
515.2 > 168.9
3.954e+005



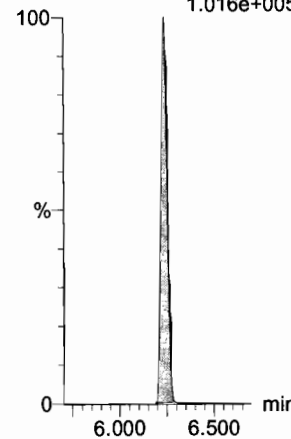
13C2-PFTeDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.016e+005



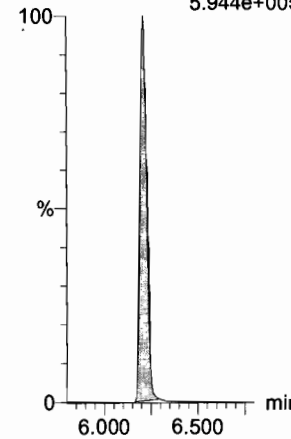
13C2-PFTeDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.016e+005



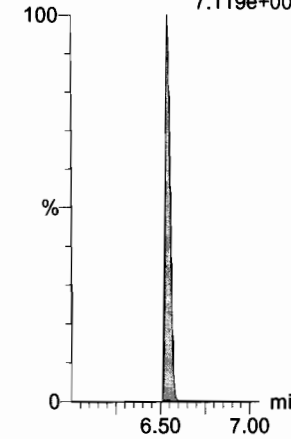
d5-N-ETFOSA

F41:MRM of 1 channel,ES-
531.1 > 168.9
5.944e+005



13C2-PFHxDA

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



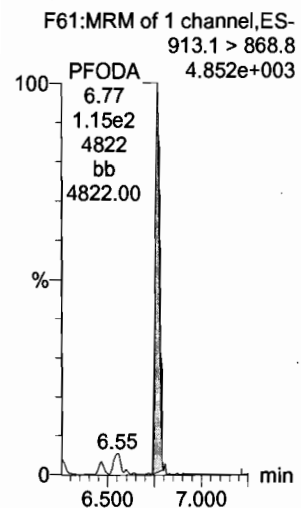
Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

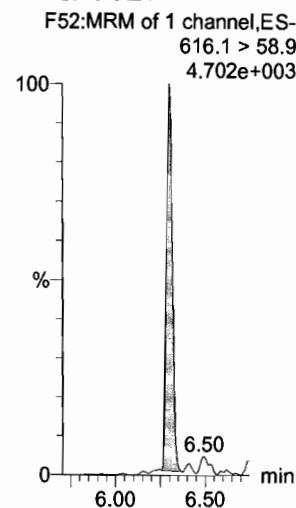
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Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

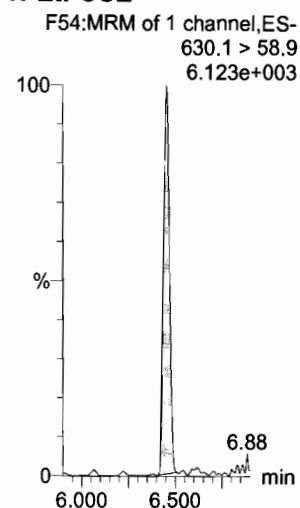
PFODA



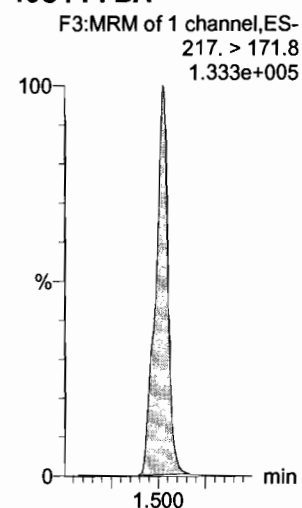
N-MeFOSE



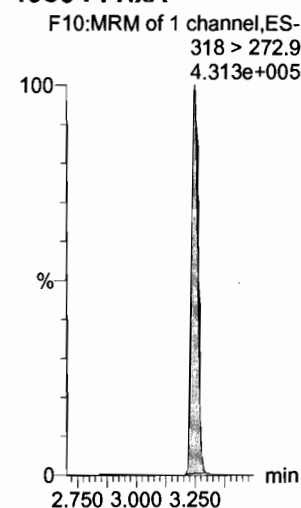
N-EtFOSE



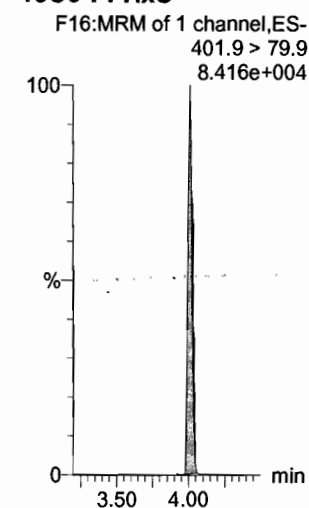
13C4-PFBA



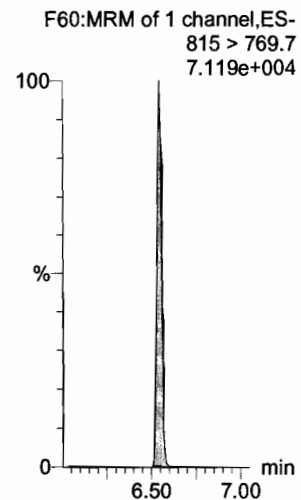
13C5-PFHxA



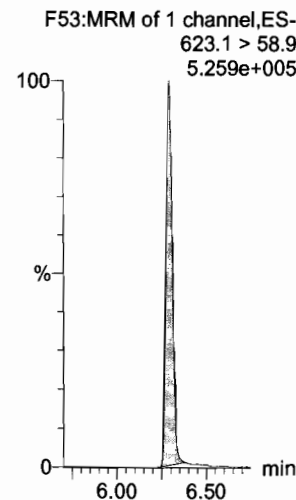
13C3-PFHxS



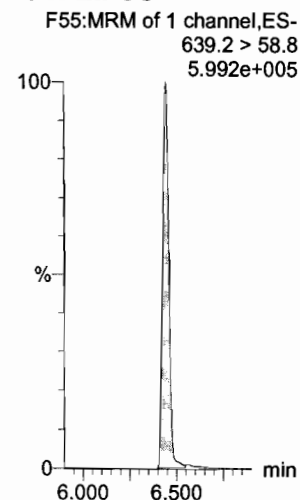
13C2-PFHxDa



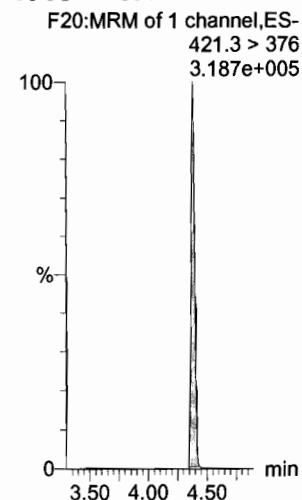
d7-N-MeFOSE



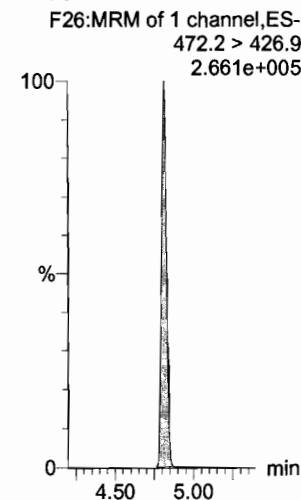
d9-N-EtFOSE



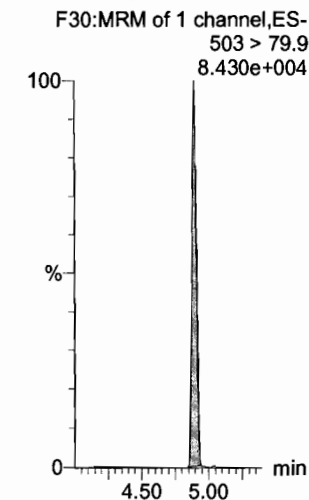
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13C9-PFNA



13C4-PFOS



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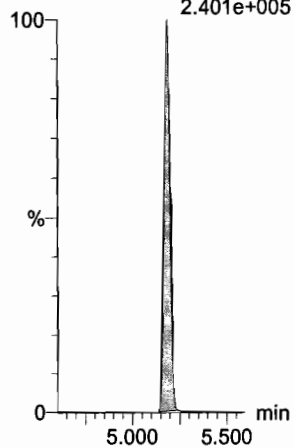
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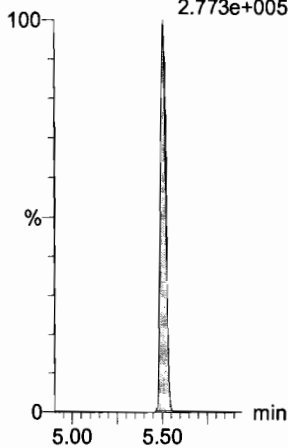
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.401e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.773e+005

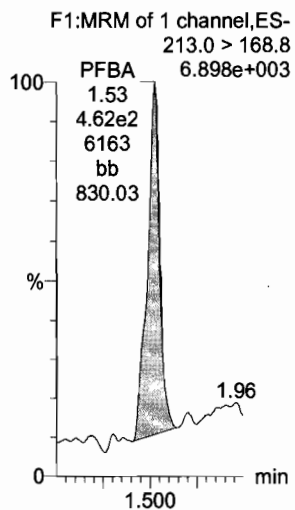


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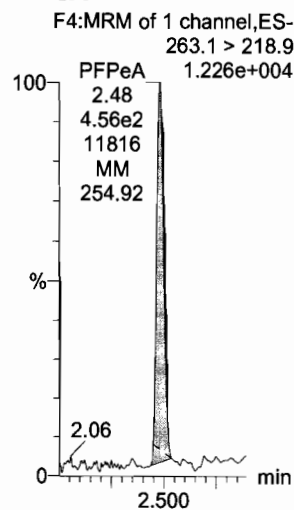
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
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Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

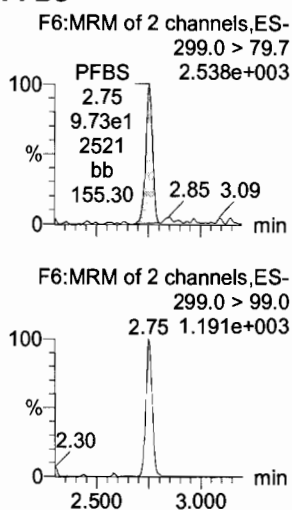
PFBA



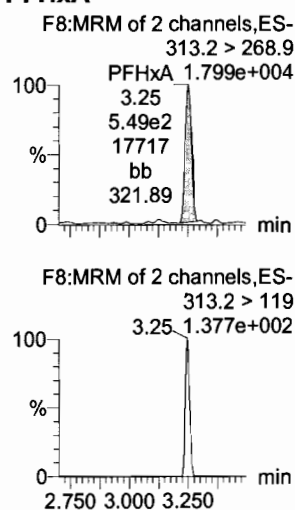
PFPeA



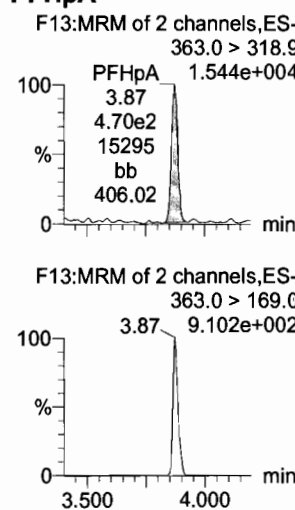
PFBS



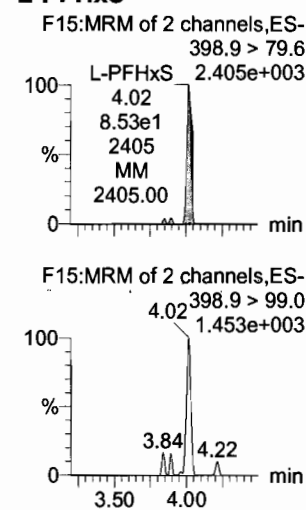
PFHxA



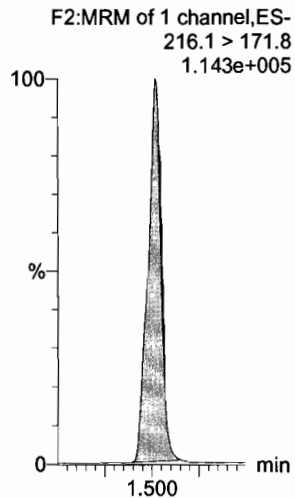
PFHpA



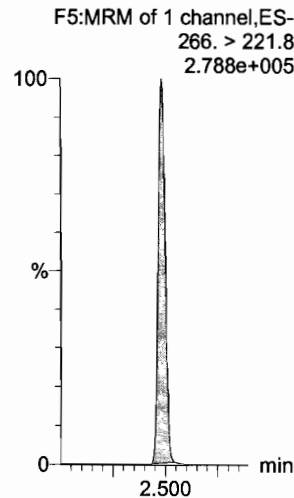
L-PFHxS



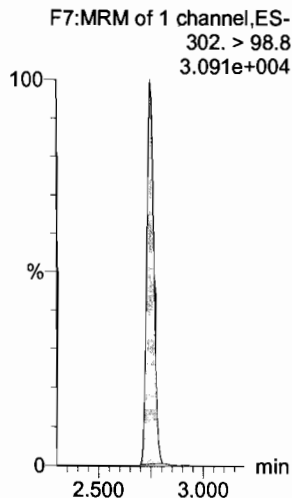
13C3-PFBA



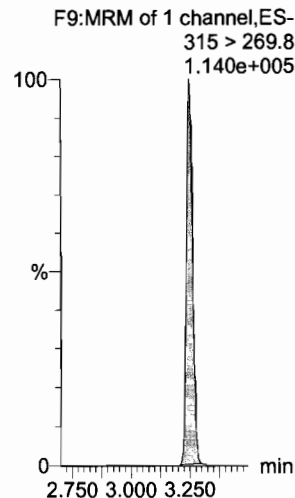
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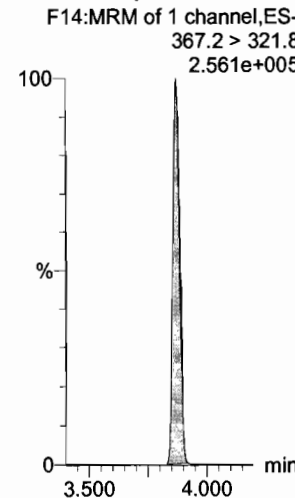
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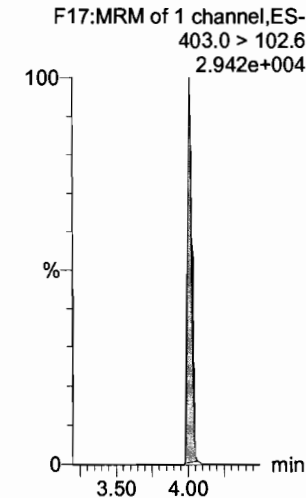
13C2-PFHxA



13C4-PFHpA



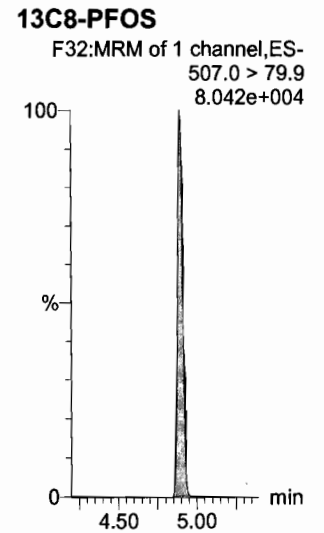
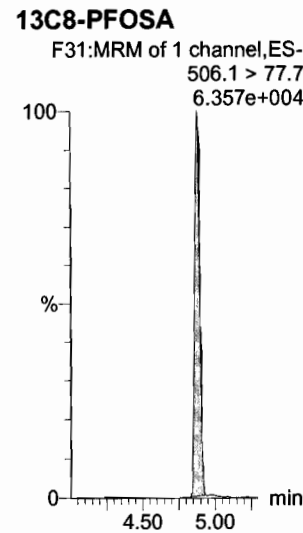
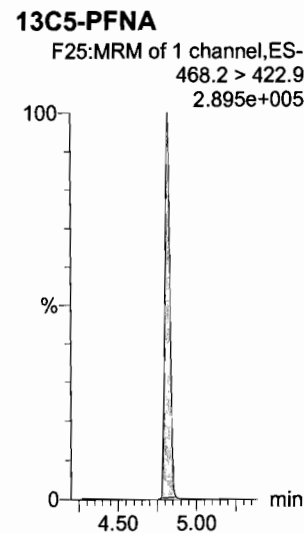
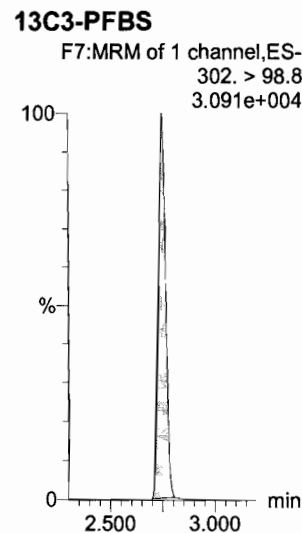
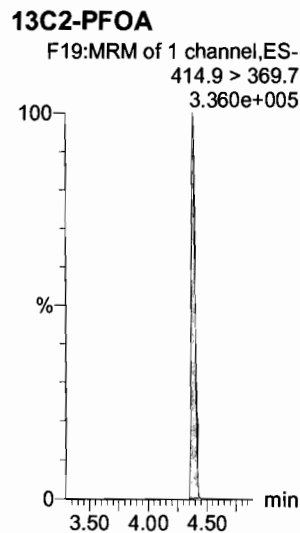
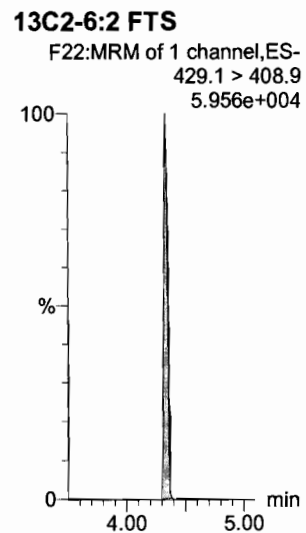
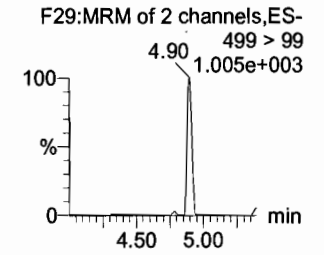
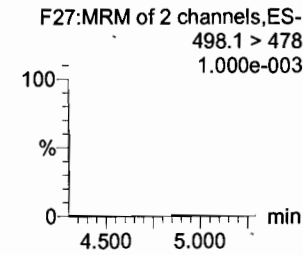
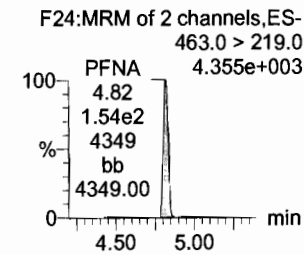
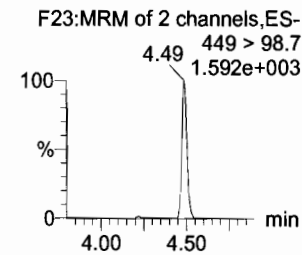
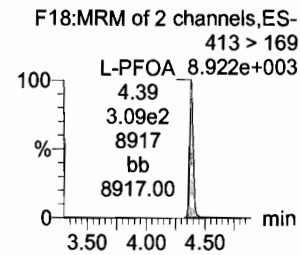
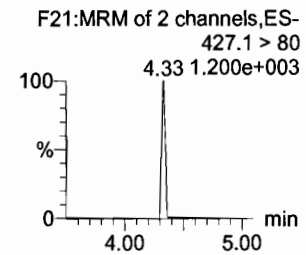
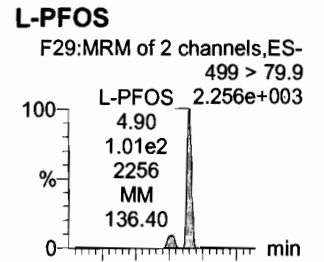
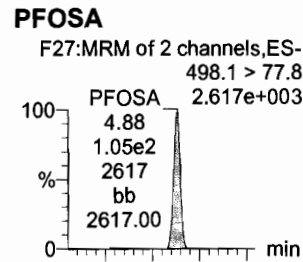
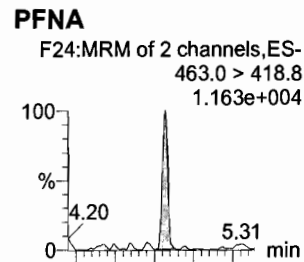
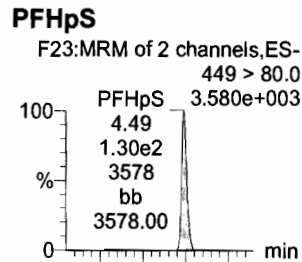
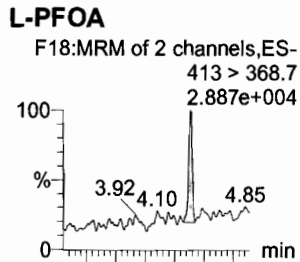
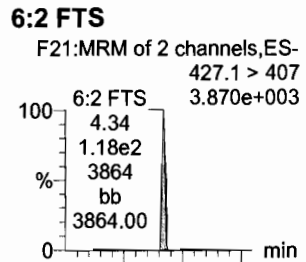
18O2-PFHxS



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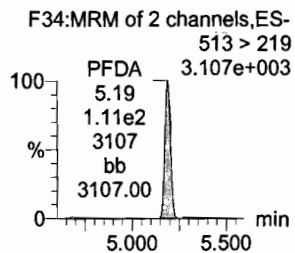
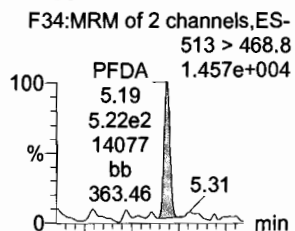
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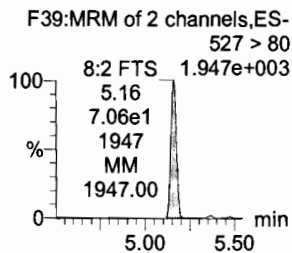
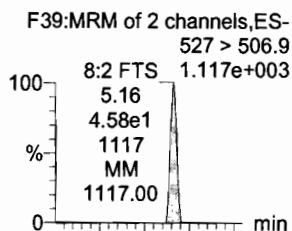
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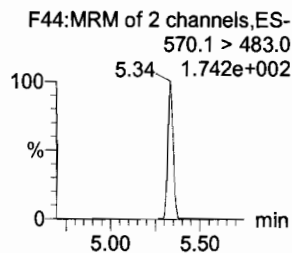
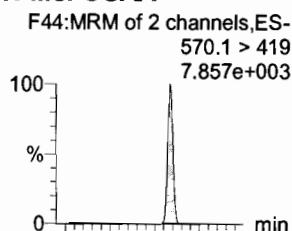
PFDA



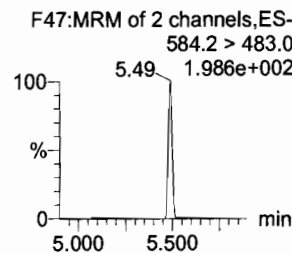
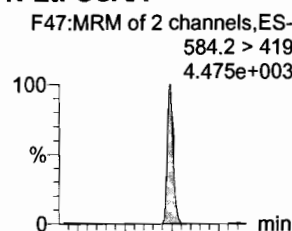
8:2 FTS



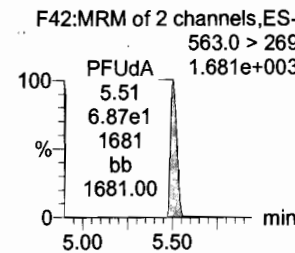
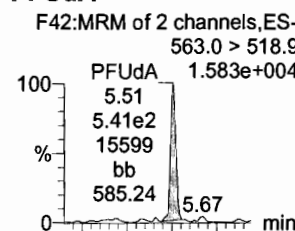
N-MeFOSAA



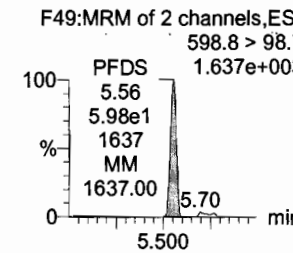
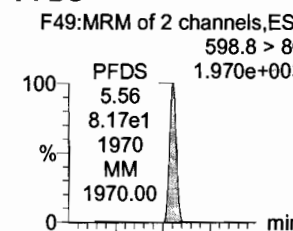
N-EtFOSAA



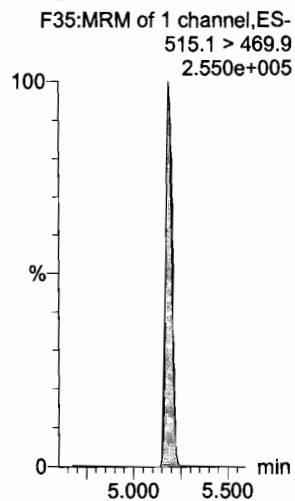
PFUdA



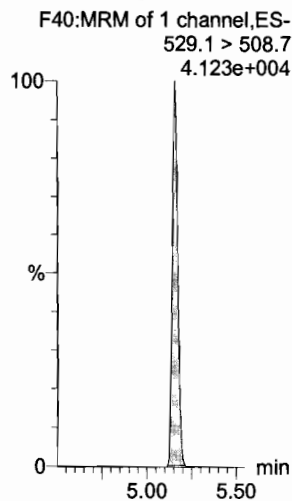
PFDS



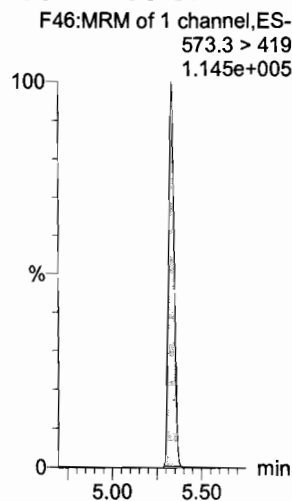
13C2-PFDA



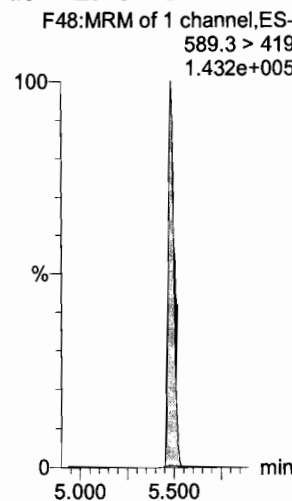
13C2-8:2 FTS



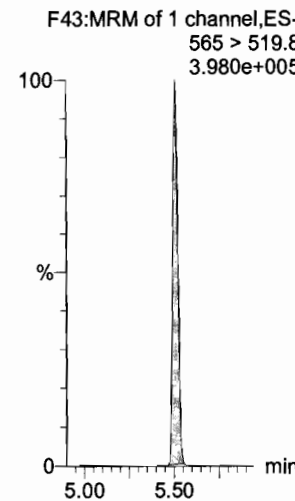
d3-N-MeFOSAA



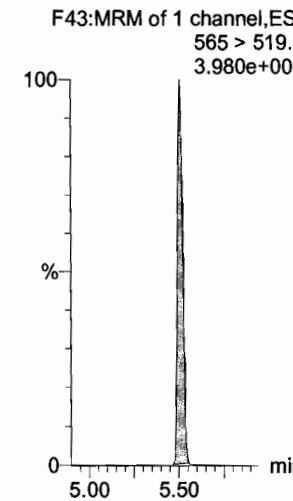
d5-N-EtFOSAA



13C2-PFUdA



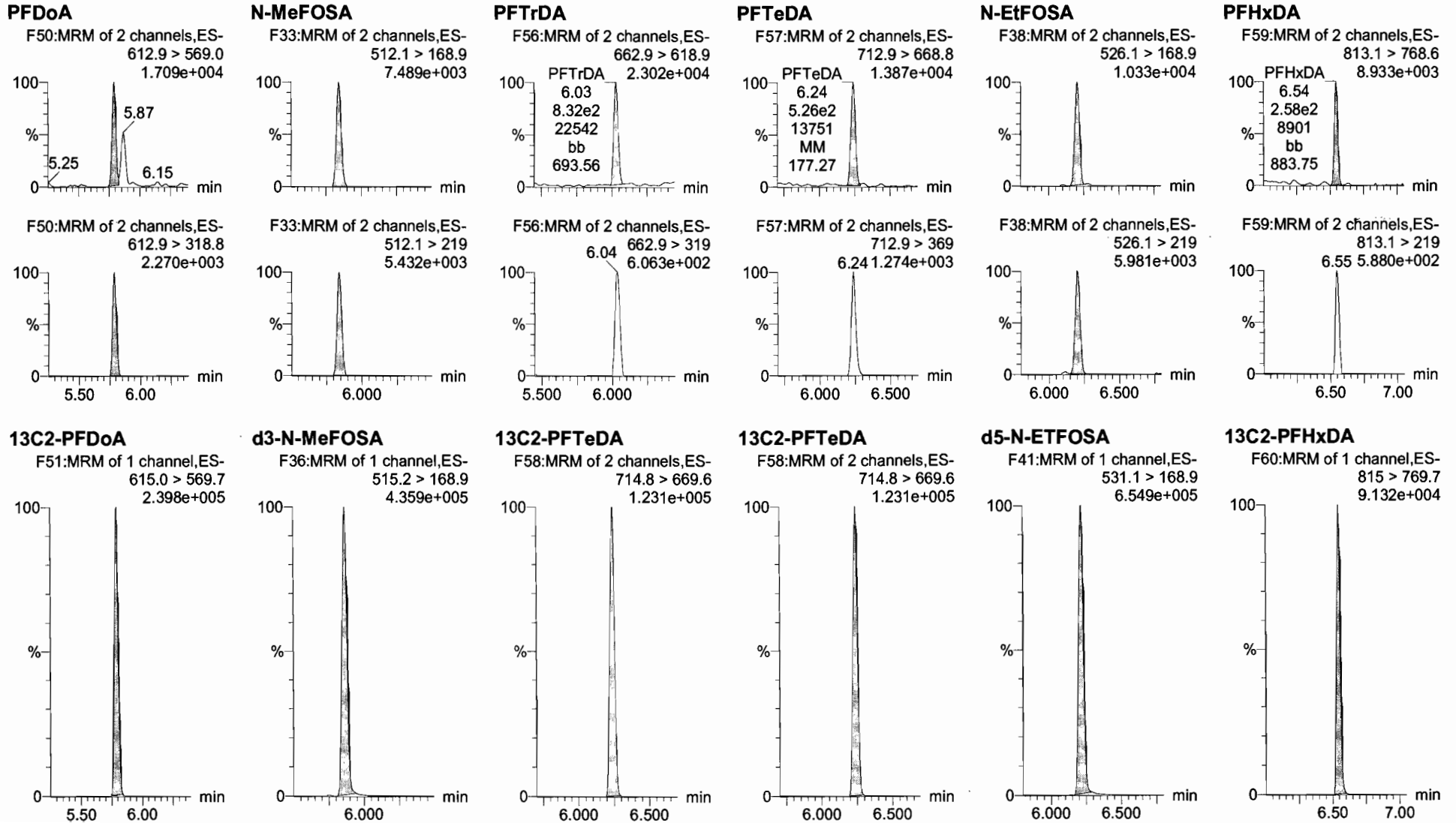
13C2-PFDS



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



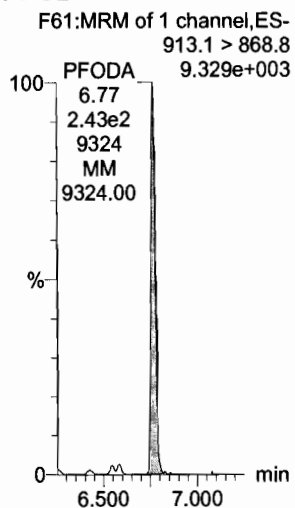
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

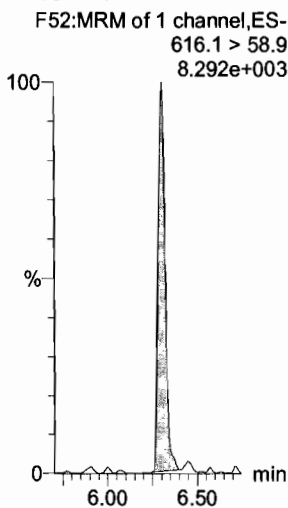
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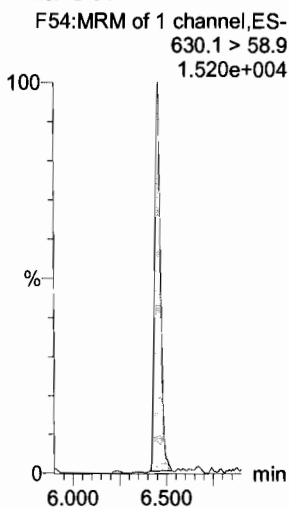
PFODA



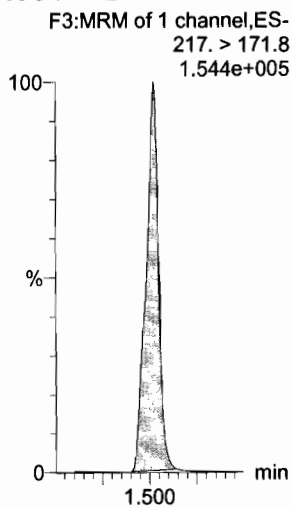
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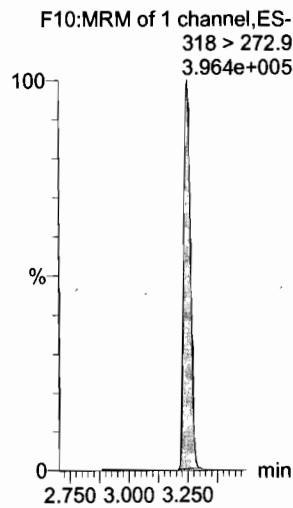
N-EtFOSE



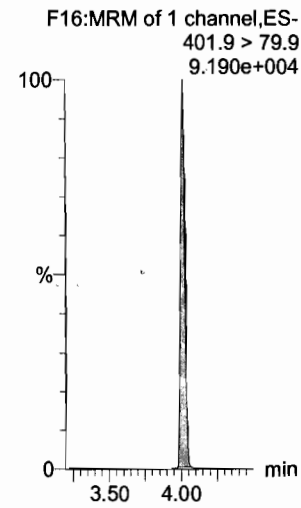
13C4-PFBA



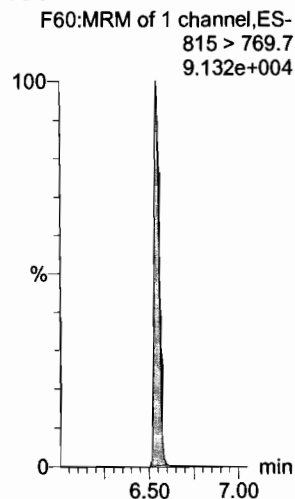
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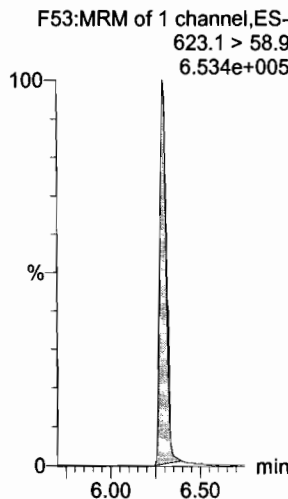
13C3-PFHxS



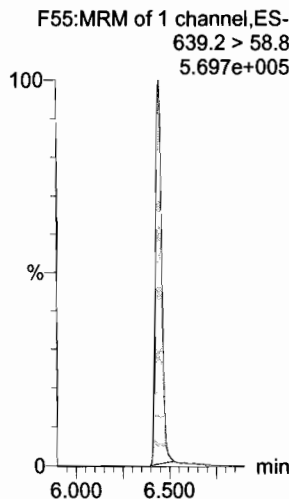
13C2-PFHxDa



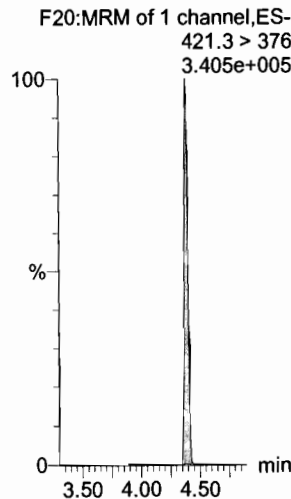
d7-N-MeFOSE



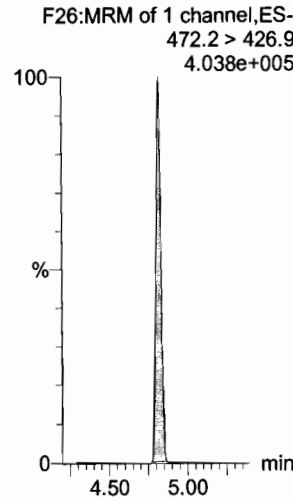
d9-N-EtFOSE



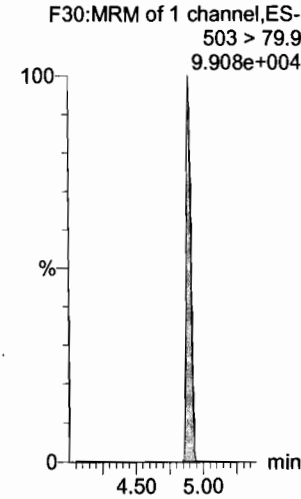
13C8-PFOA



13C9-PFNA



13C4-PFOS



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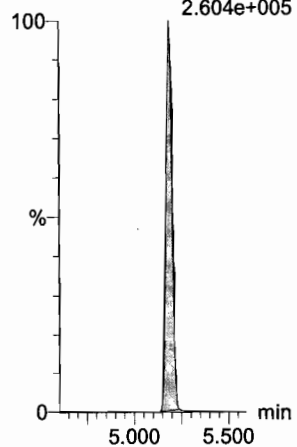
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Name: 180115M2_2, Date: 16-Jan-2018, Time: 00:25:32, ID: ST180115M2-2 PFC CS-1 17L2607, Description: PFC CS-1 17L2607

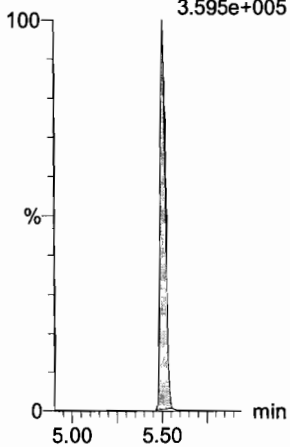
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.604e+005



13C7-PFUdA

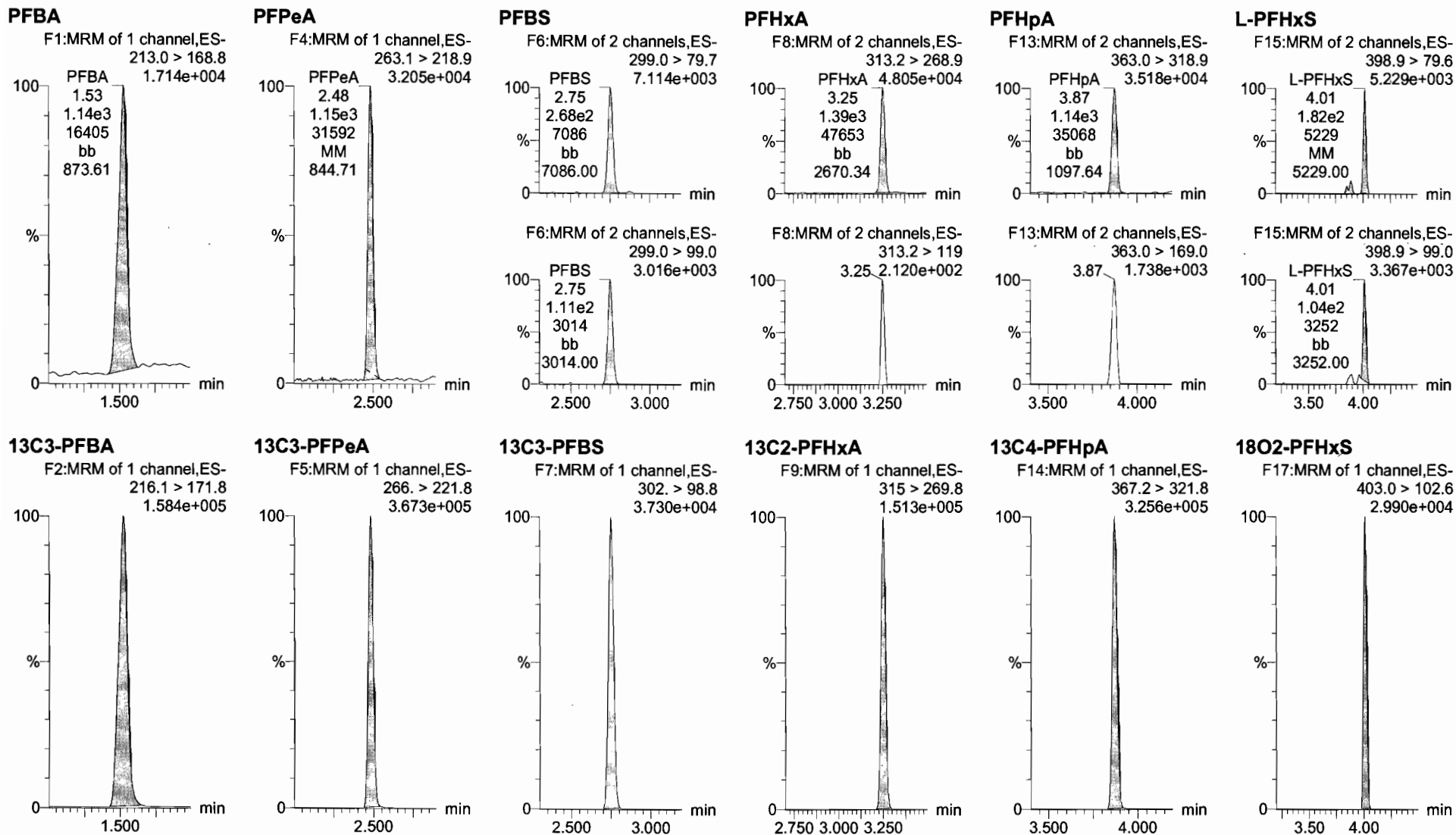
F45:MRM of 1 channel,ES-
570.1 > 524.8
3.595e+005



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

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

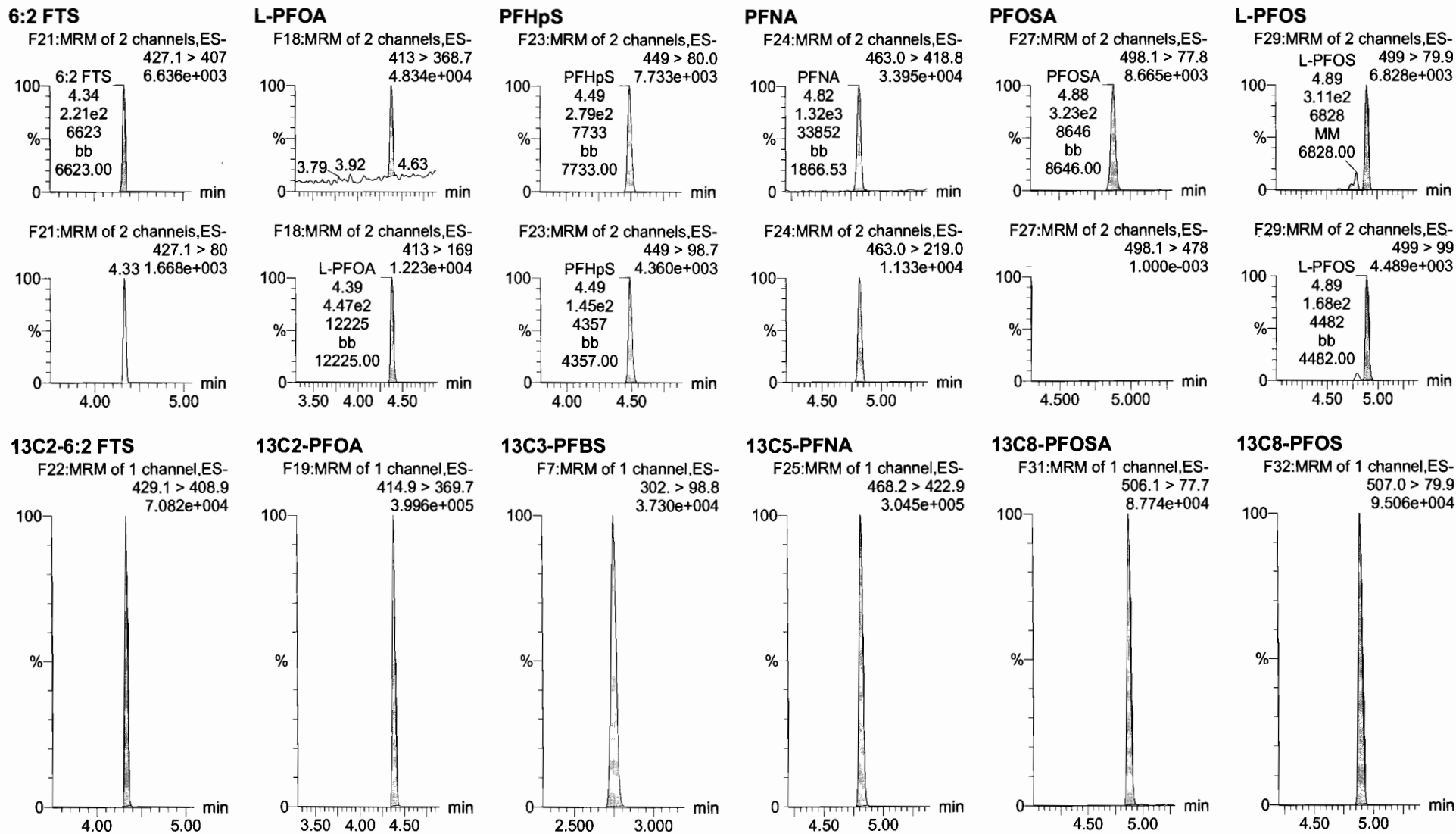


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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

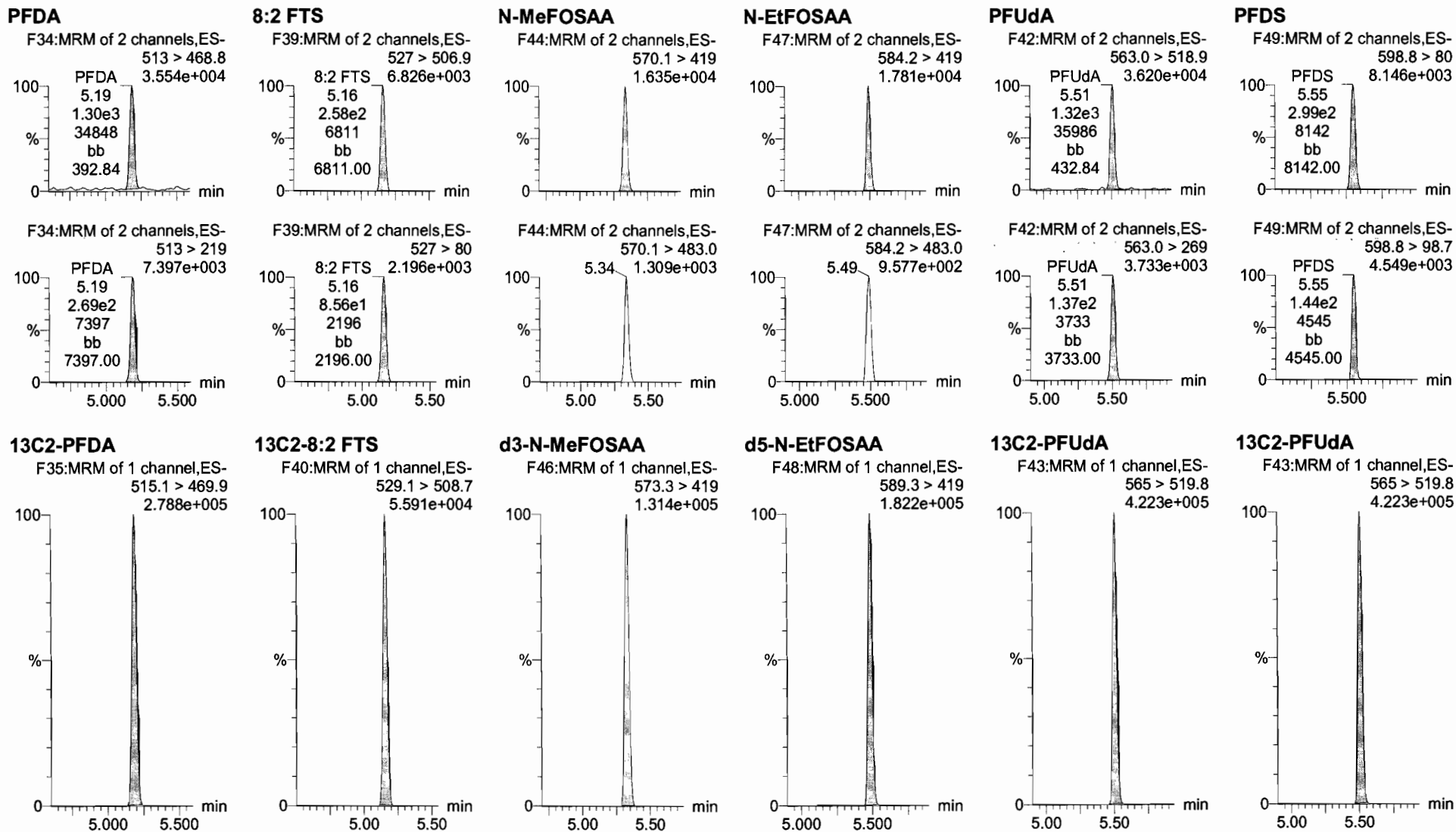


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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



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

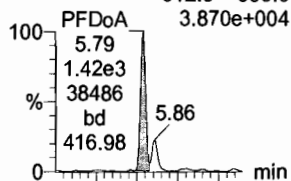
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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

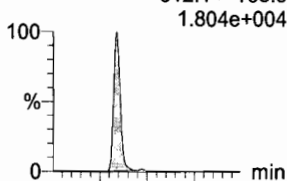
PFDoA

F50:MRM of 2 channels,ES-
612.9 > 569.0
3.870e+004



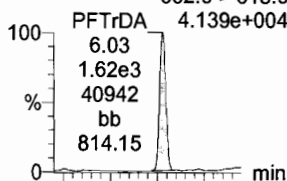
N-MeFOSA

F33:MRM of 2 channels,ES-
512.1 > 168.9
1.804e+004



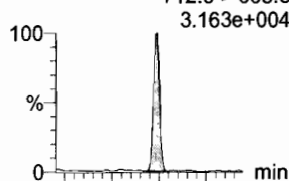
PFTrDA

F56:MRM of 2 channels,ES-
662.9 > 618.9
4.139e+004



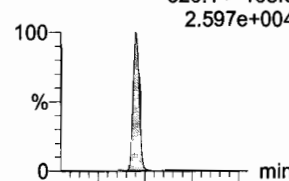
PFTeDA

F57:MRM of 2 channels,ES-
712.9 > 668.8
3.163e+004



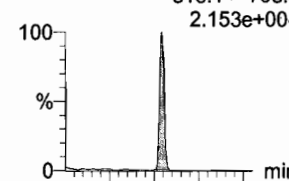
N-EtFOSA

F38:MRM of 2 channels,ES-
526.1 > 168.9
2.597e+004

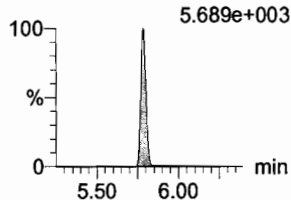


PFHxDA

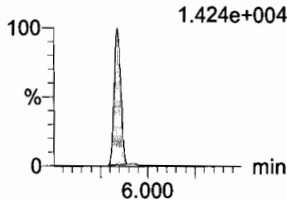
F59:MRM of 2 channels,ES-
813.1 > 768.6
2.153e+004



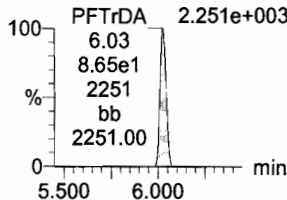
F50:MRM of 2 channels,ES-
612.9 > 318.8
5.689e+003



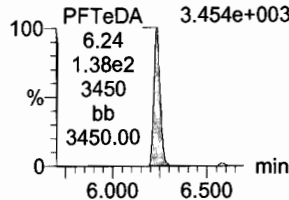
F33:MRM of 2 channels,ES-
512.1 > 219
1.424e+004



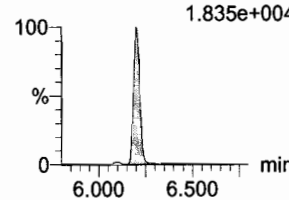
F56:MRM of 2 channels,ES-
662.9 > 319
2.251e+003



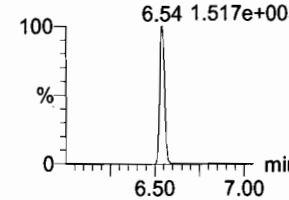
F57:MRM of 2 channels,ES-
712.9 > 369
3.454e+003



F38:MRM of 2 channels,ES-
526.1 > 219
1.835e+004

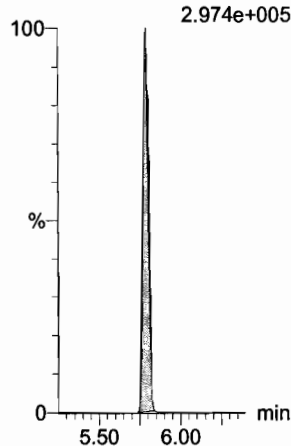


F59:MRM of 2 channels,ES-
813.1 > 219
1.517e+003



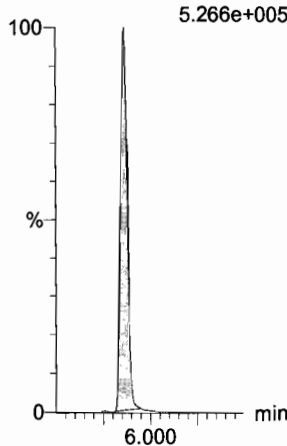
13C2-PFDoA

F51:MRM of 1 channel,ES-
615.0 > 569.7
2.974e+005



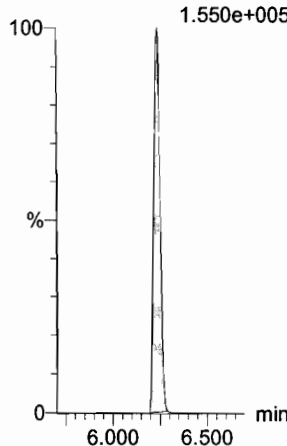
d3-N-MeFOSA

F36:MRM of 1 channel,ES-
515.2 > 168.9
5.266e+005



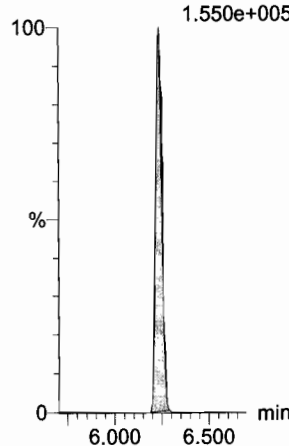
13C2-PFTeDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.550e+005



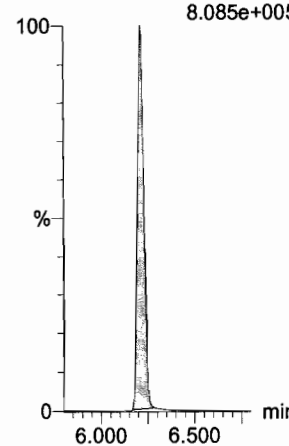
13C2-PFTeDA

F58:MRM of 2 channels,ES-
714.8 > 669.6
1.550e+005



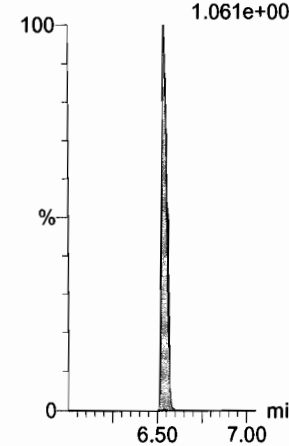
d5-N-ETFOSA

F41:MRM of 1 channel,ES-
531.1 > 168.9
8.085e+005



13C2-PFHxDA

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

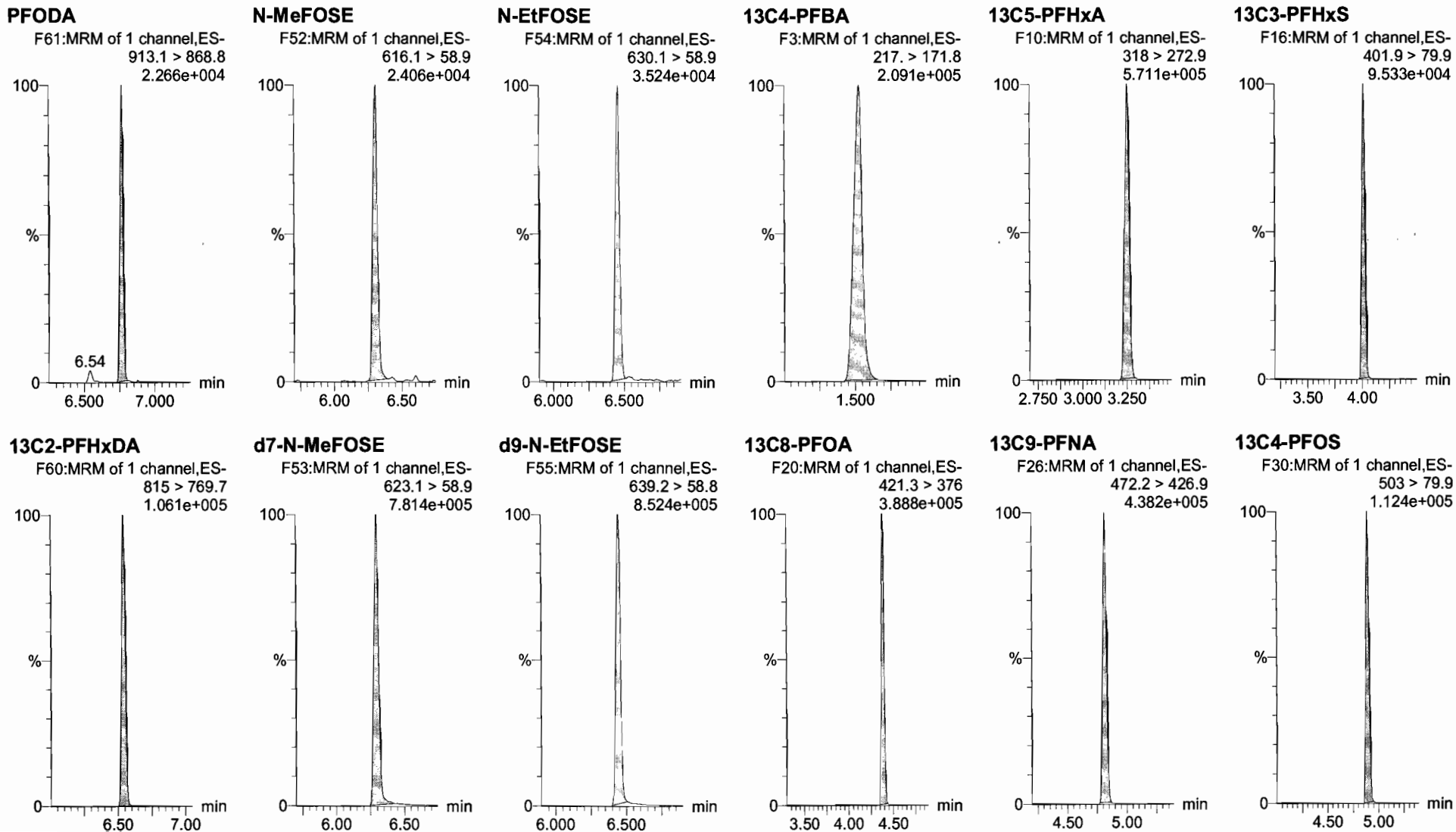


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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



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

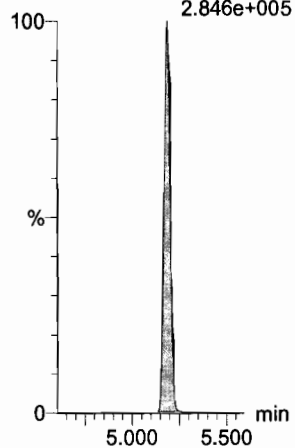
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Name: 180115M2_3, Date: 16-Jan-2018, Time: 00:37:02, ID: ST180115M2-3 PFC CS0 17L2608, Description: PFC CS0 17L2608

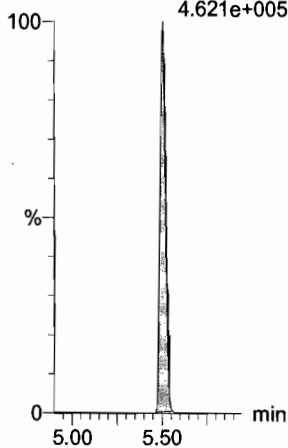
13C6-PFDA

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



13C7-PFUdA

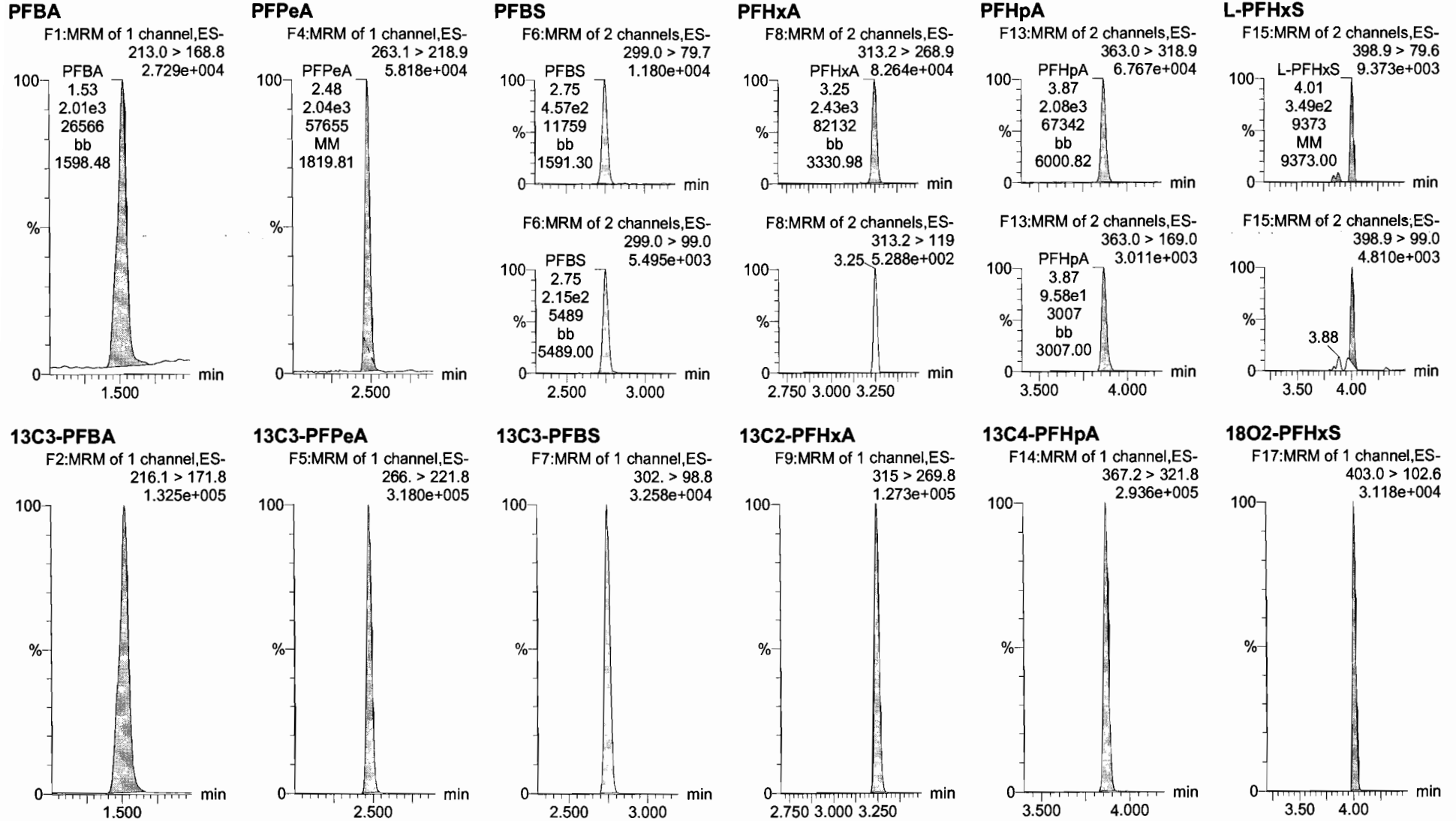
F45:MRM of 1 channel,ES-
570.1 > 524.8
4.621e+005



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

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
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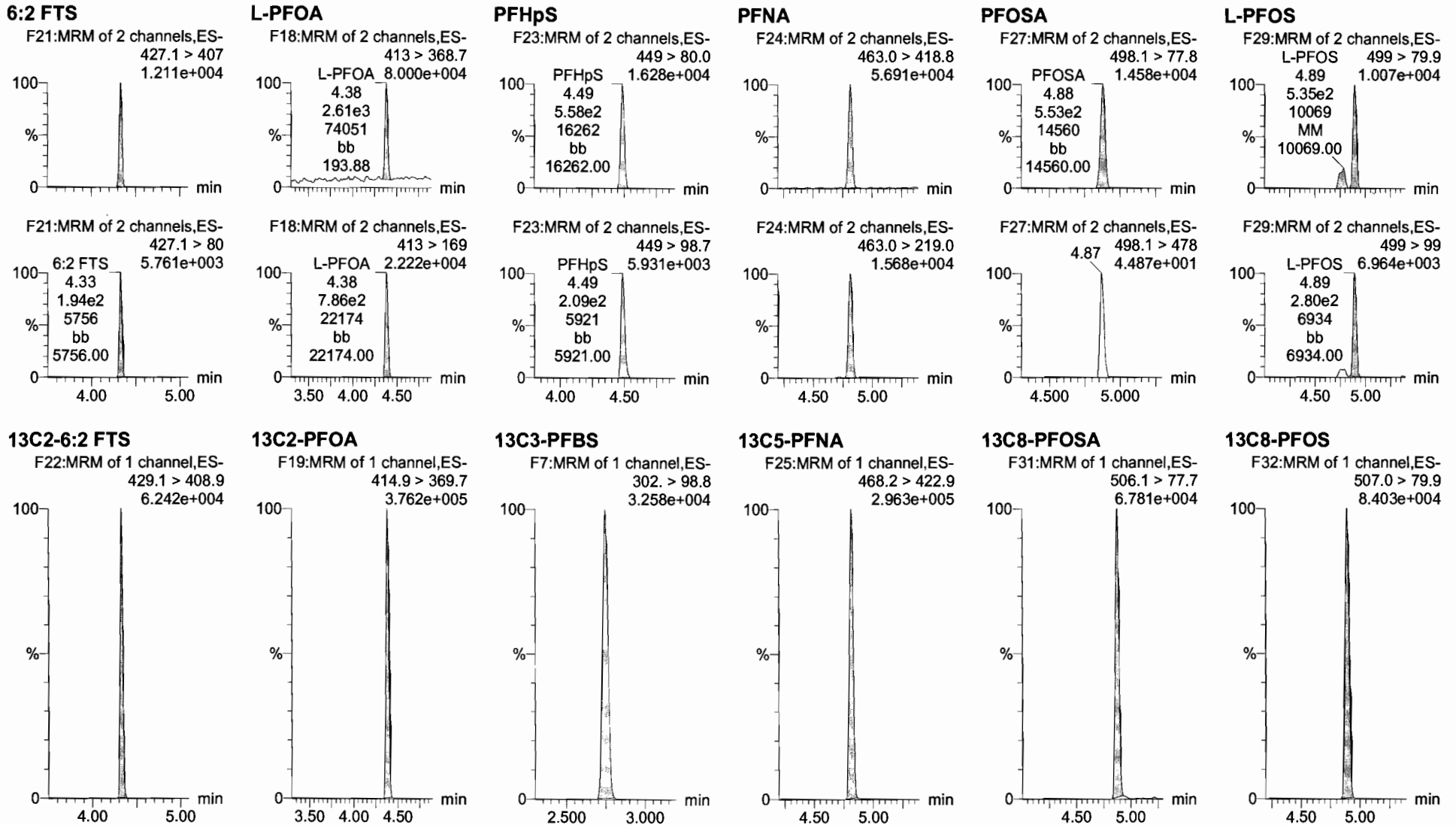
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Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
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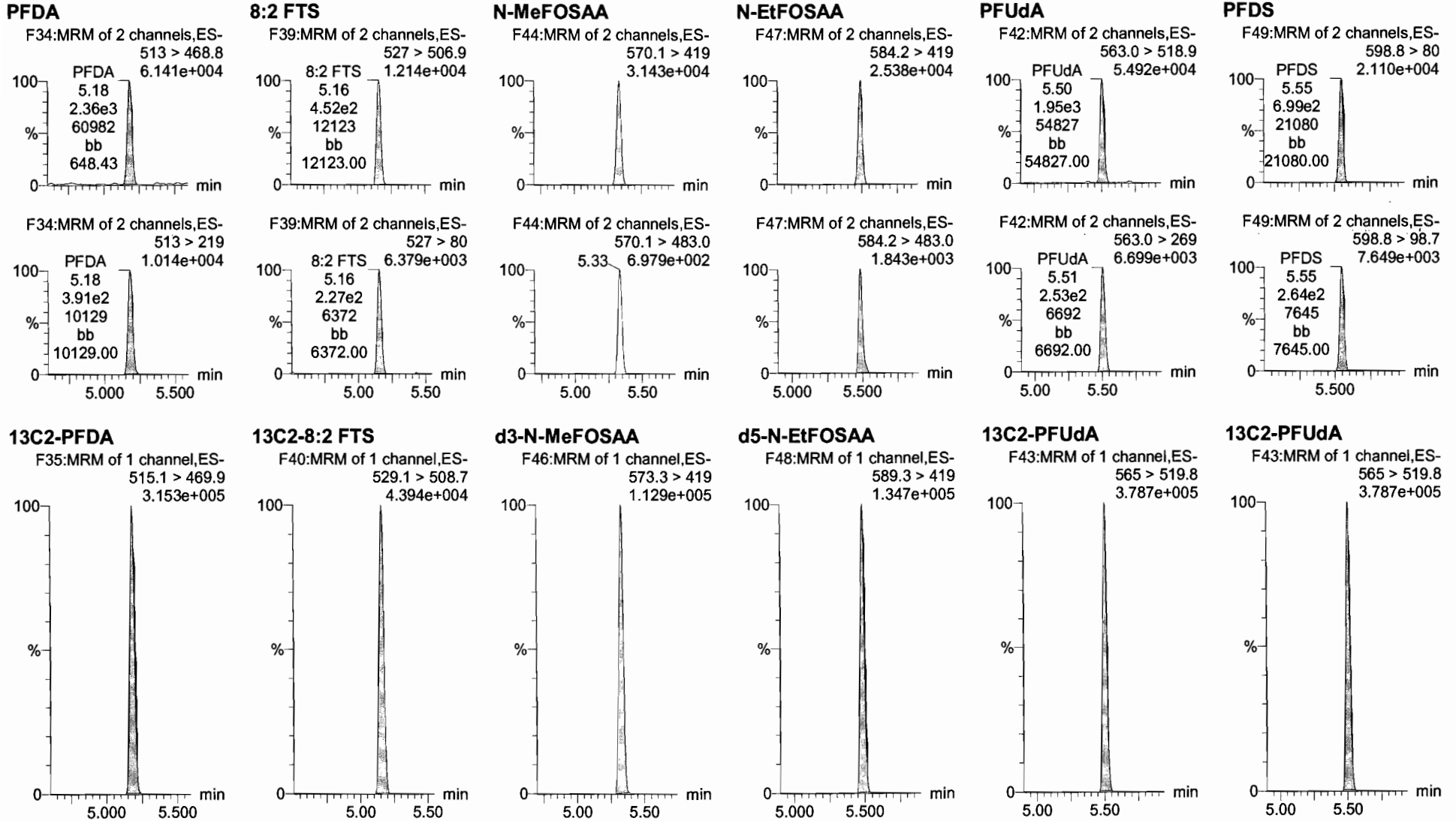
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Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
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Name: 180115M2_4, Date: 16-Jan-2018, Time: 00:48:46, ID: ST180115M2-4 PFC CS1 17L2609, Description: PFC CS1 17L2609



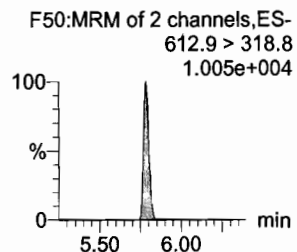
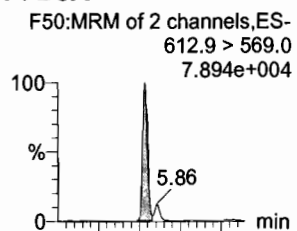
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

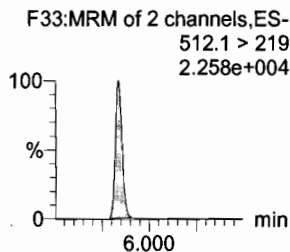
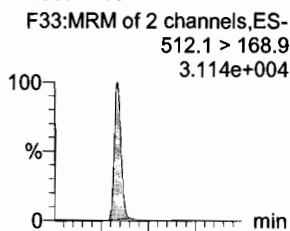
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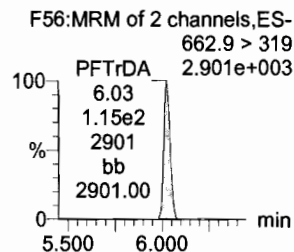
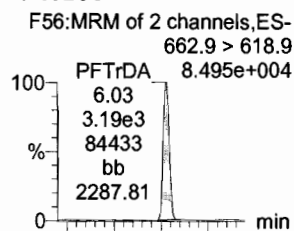
PFDoA



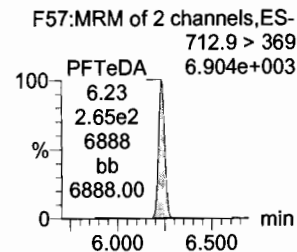
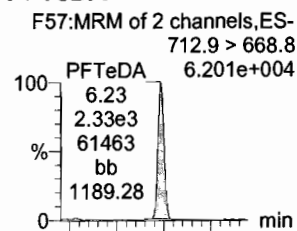
N-MeFOSA



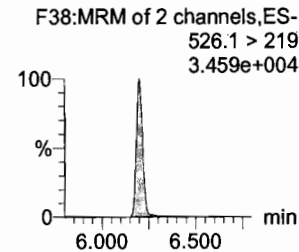
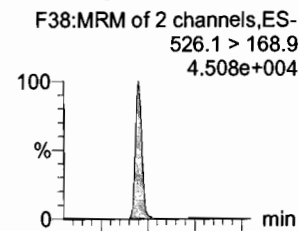
PFTrDA



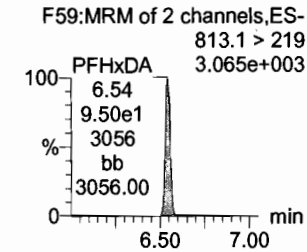
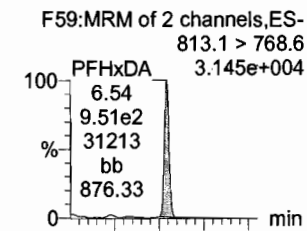
PFTeDA



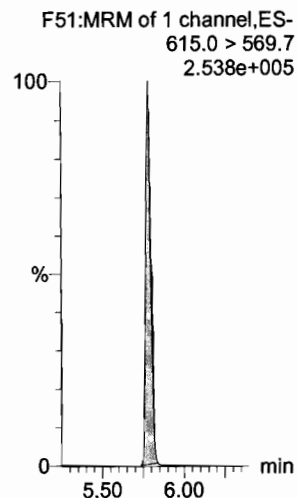
N-EtFOSA



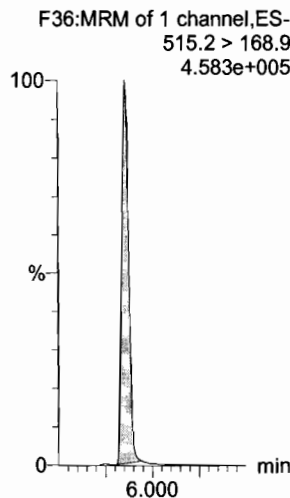
PFHxDA



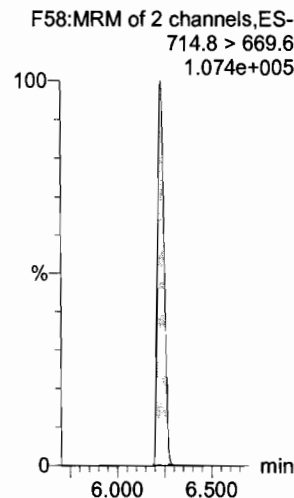
13C2-PFDoA



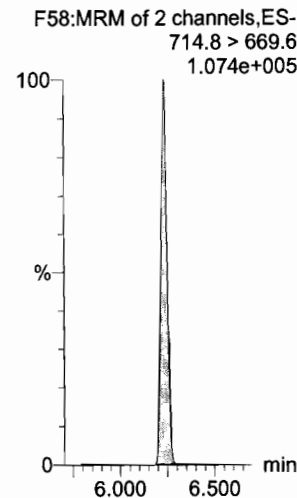
d3-N-MeFOSA



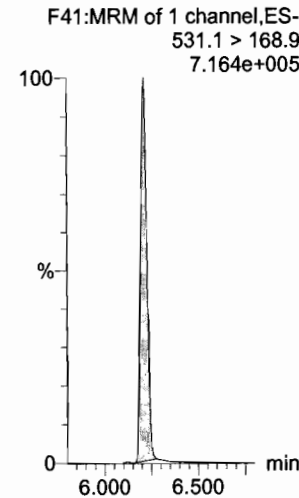
13C2-PFTeDA



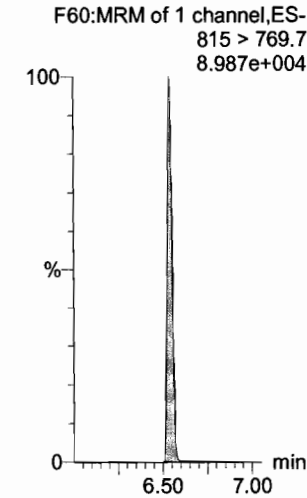
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA

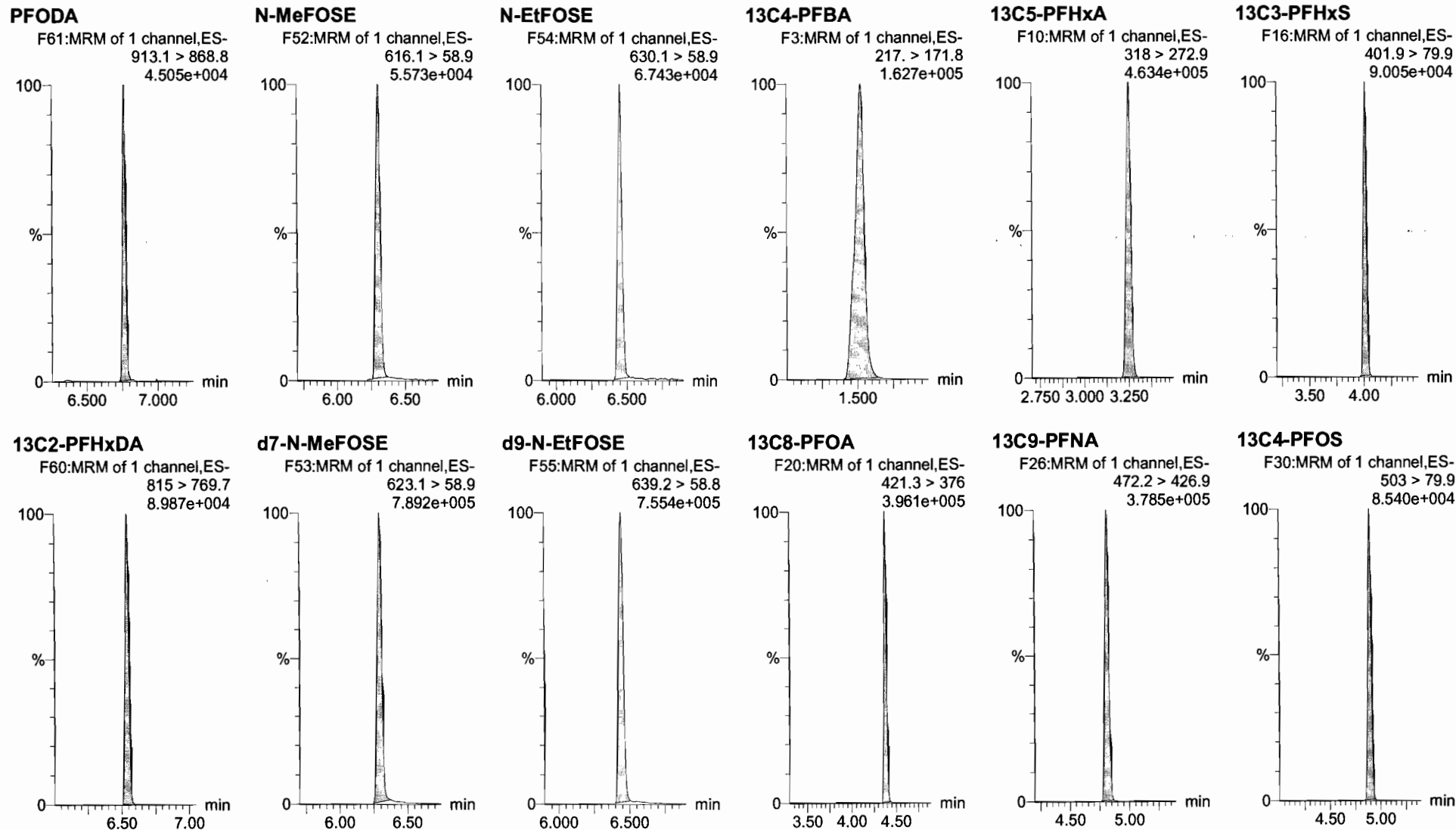


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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



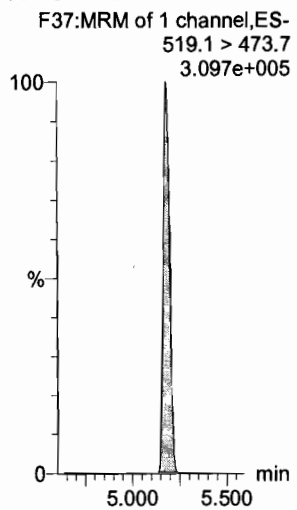
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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

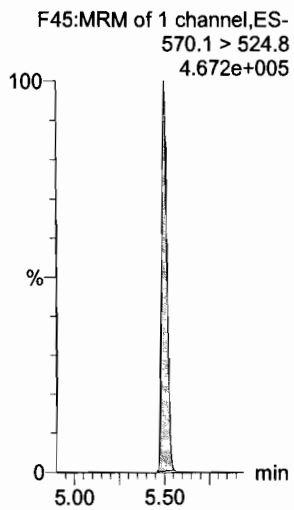
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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13C6-PFDA



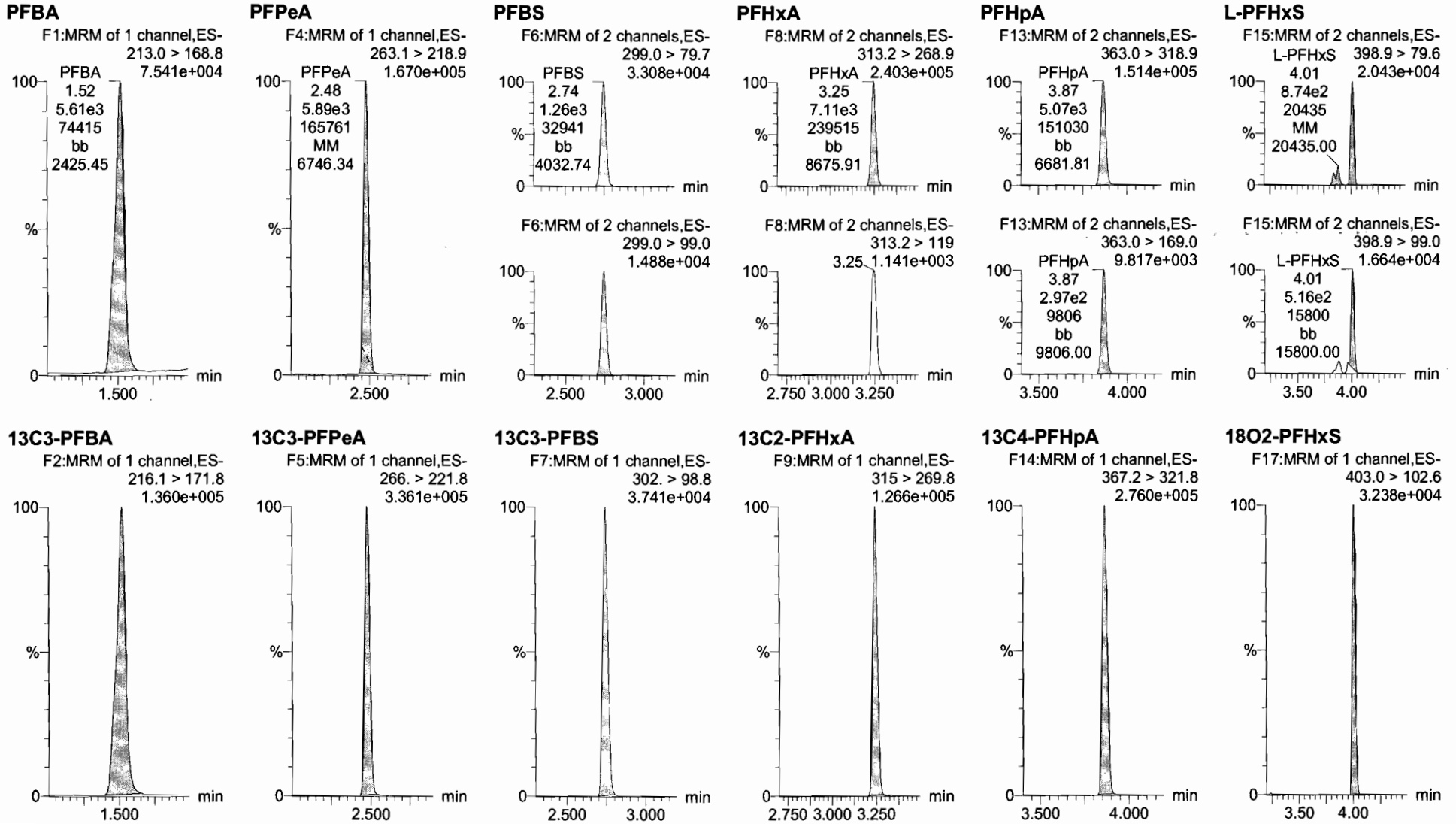
13C7-PFUdA



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

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
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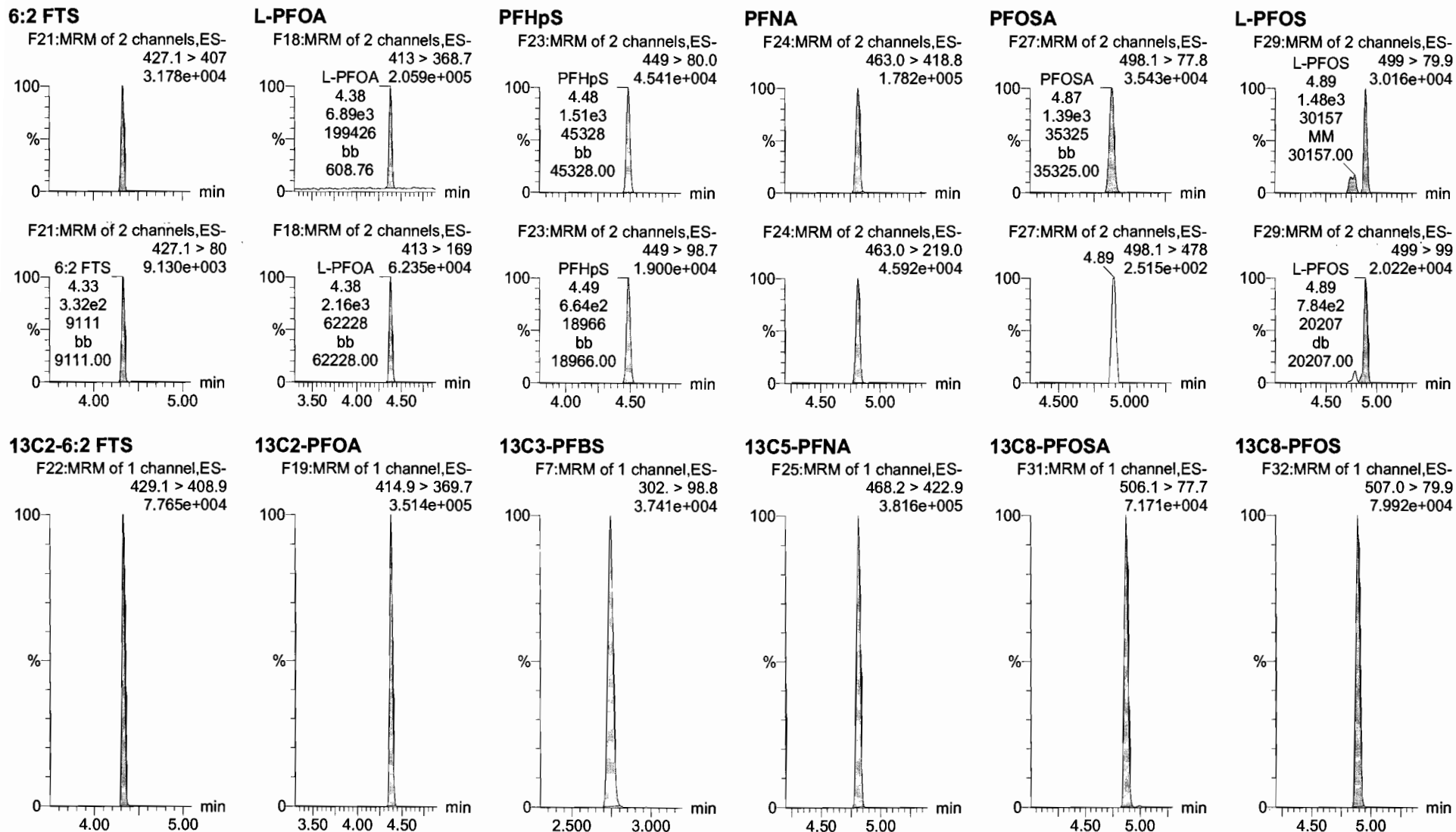
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Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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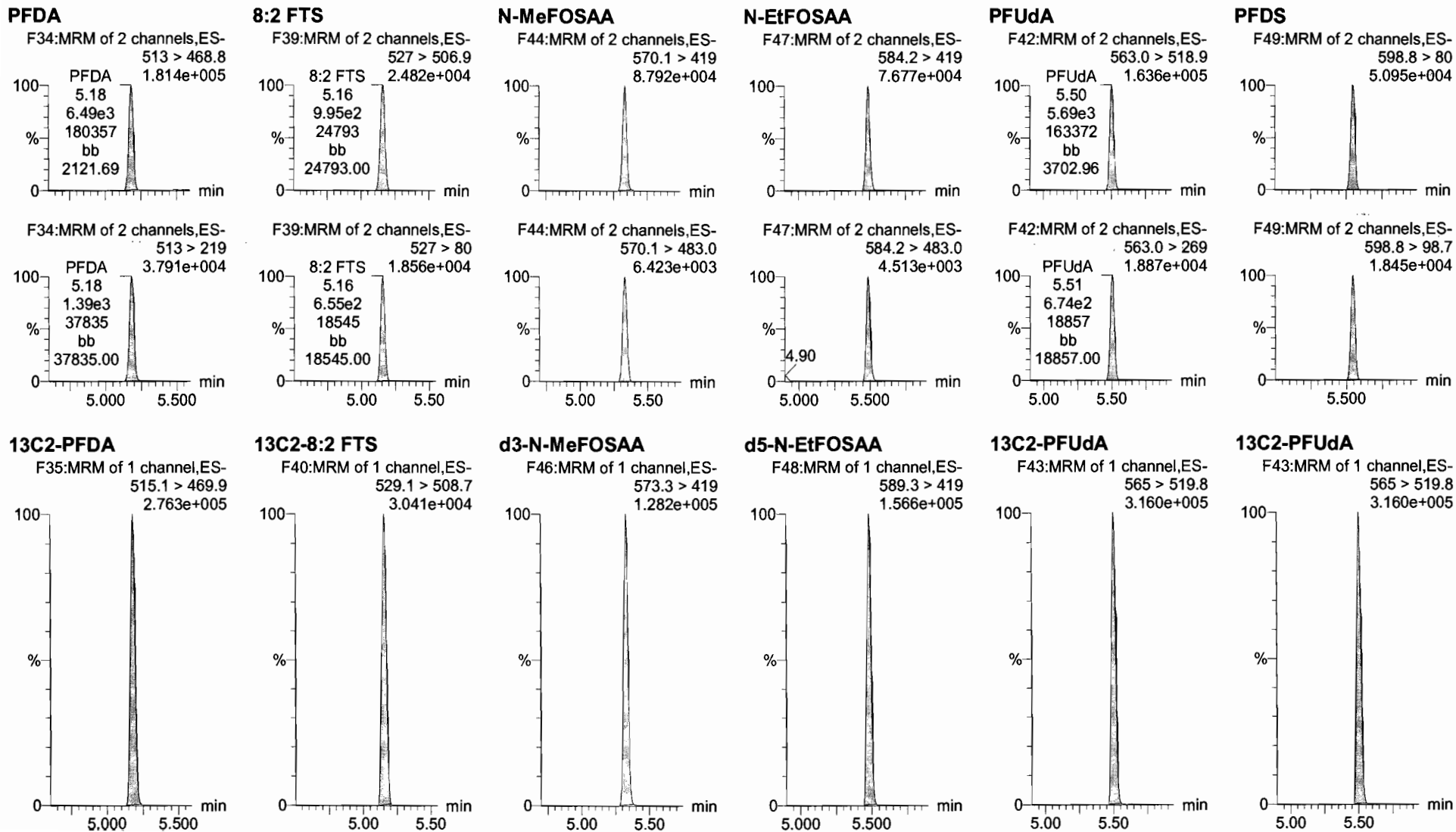


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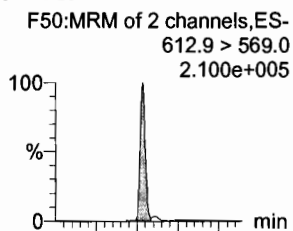
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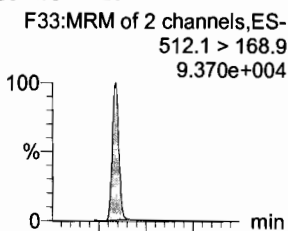
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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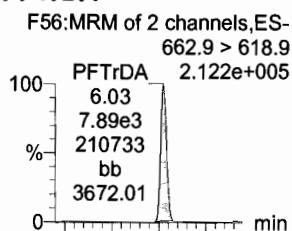
PFDoA



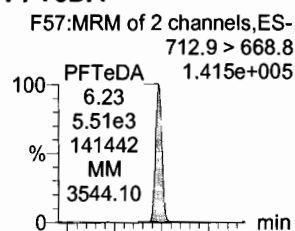
N-MeFOSA



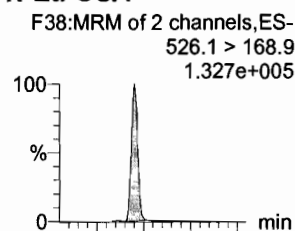
PFTrDA



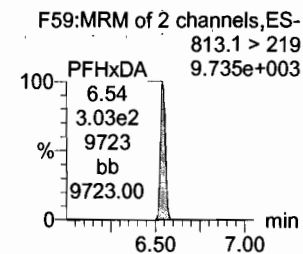
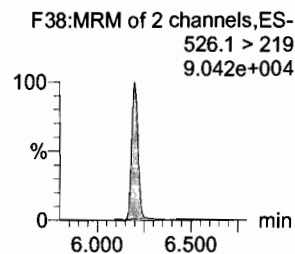
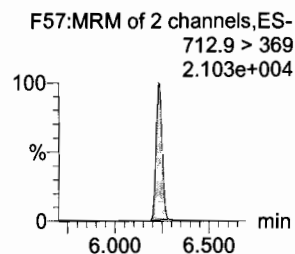
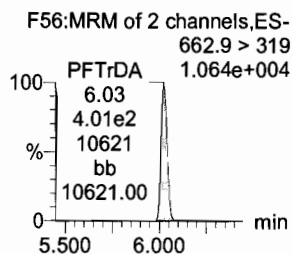
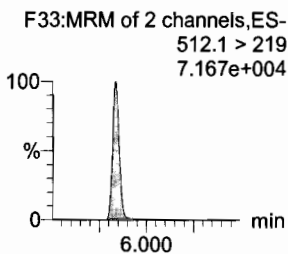
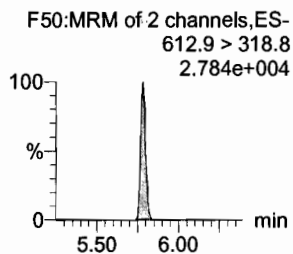
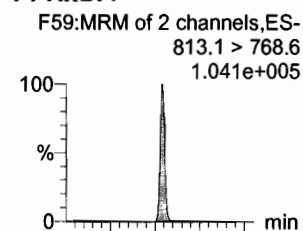
PFTeDA



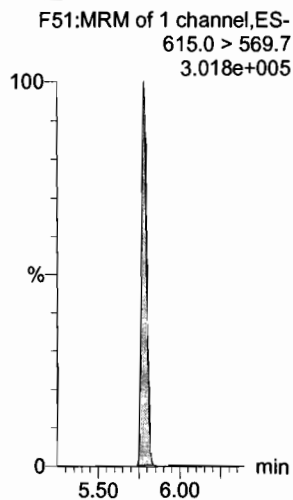
N-EtFOSA



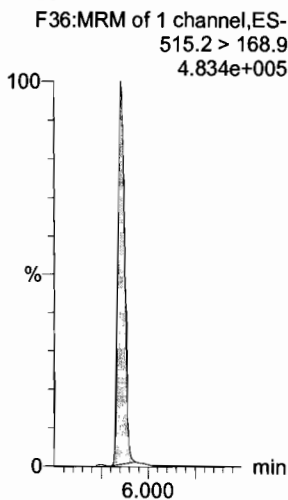
PFHxDA



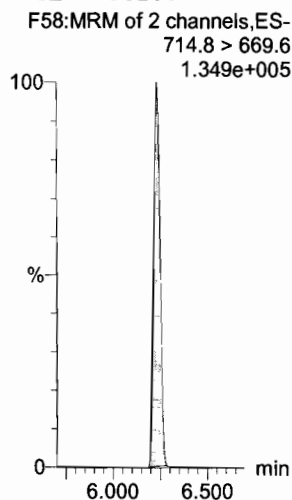
13C2-PFDoA



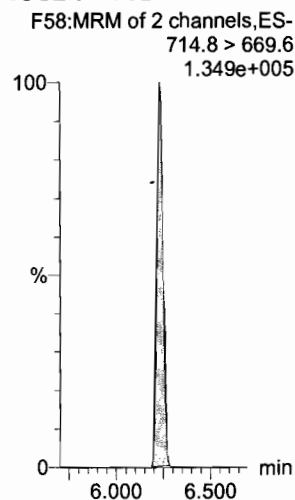
d3-N-MeFOSA



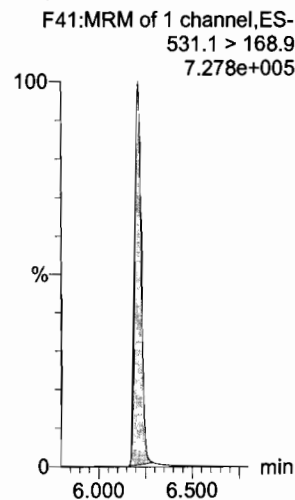
13C2-PFTeDA



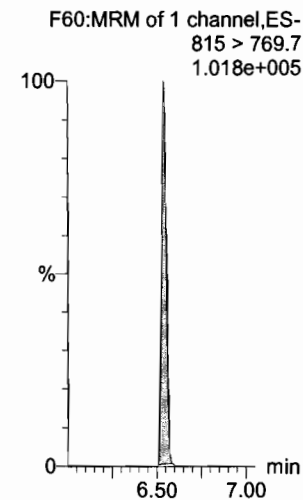
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA

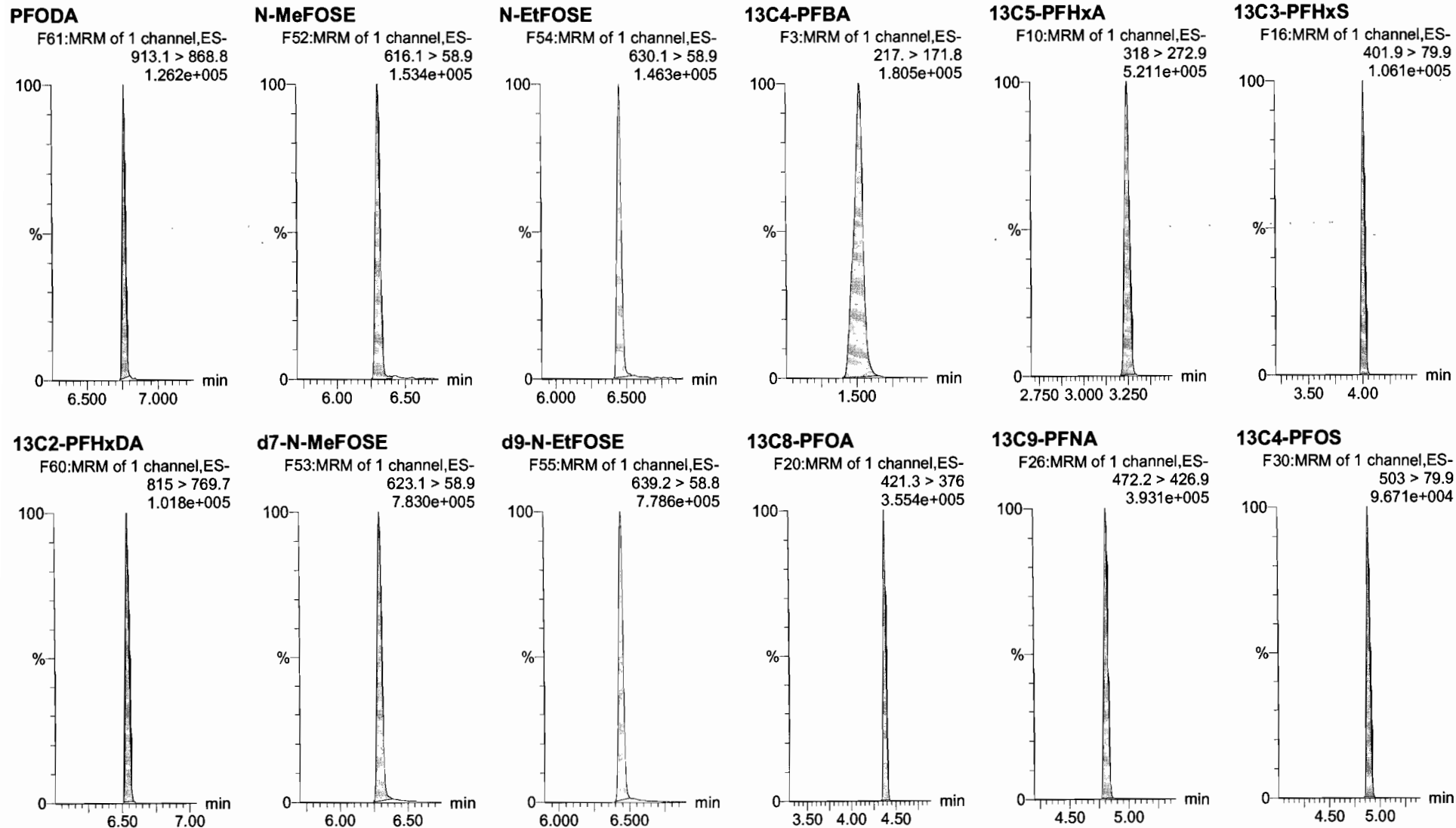


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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



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

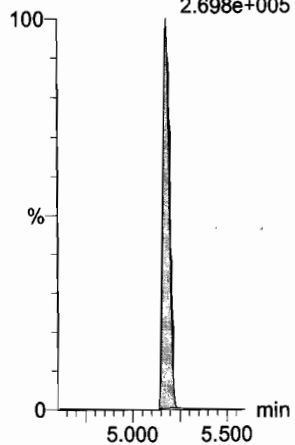
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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

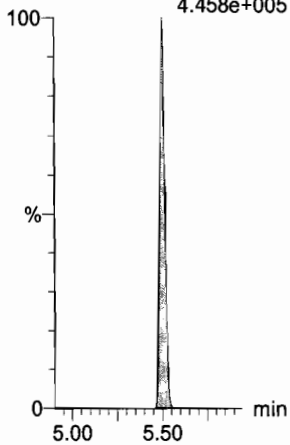
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.698e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.458e+005

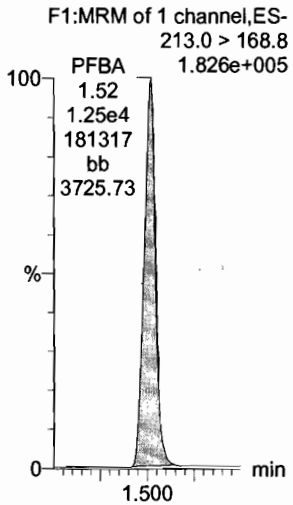


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

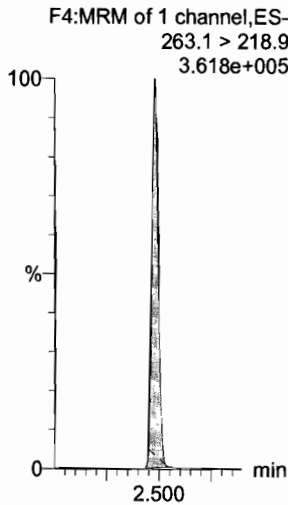
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

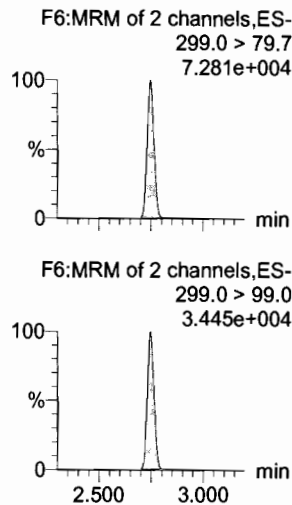
PFBA



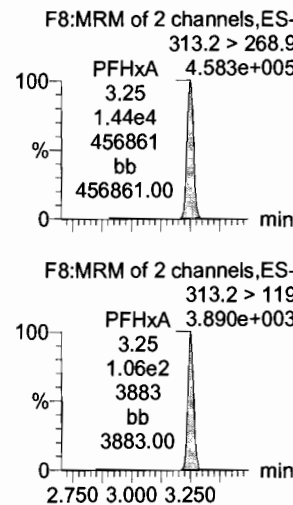
PFPeA



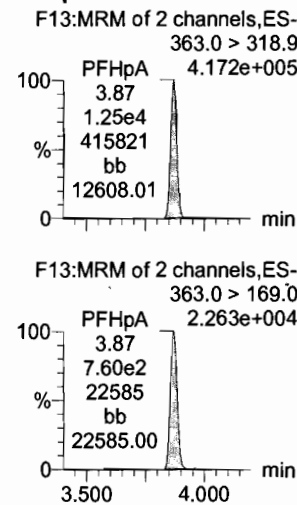
PFBS



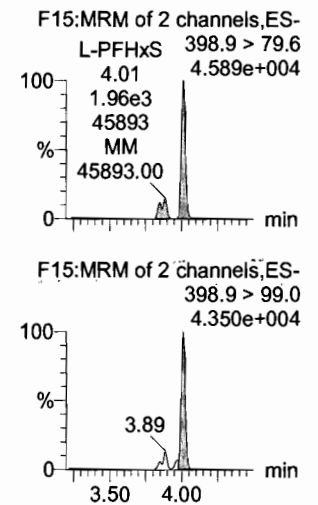
PFHxA



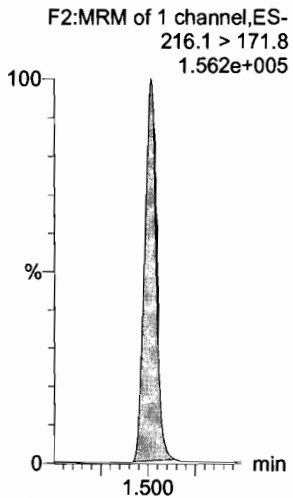
PFHpA



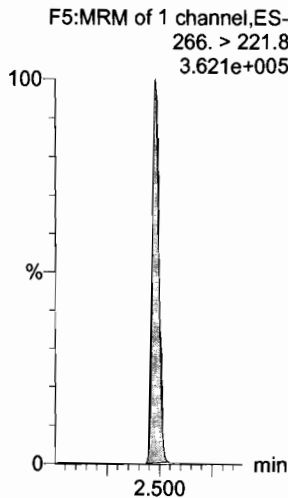
L-PFHxS



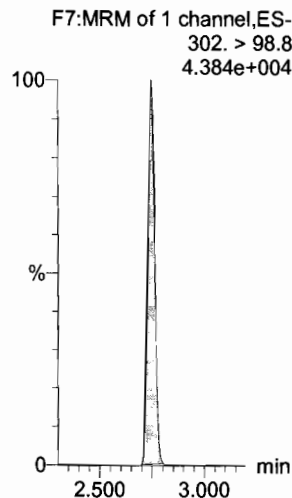
13C3-PFBA



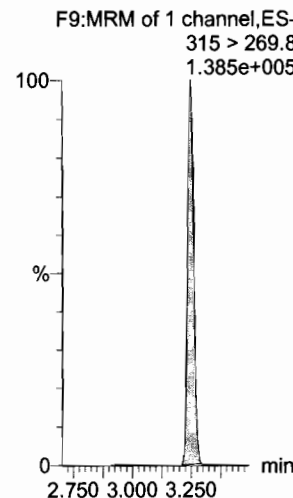
13C3-PFPeA



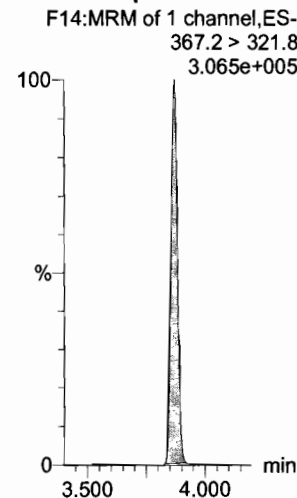
13C3-PFBS



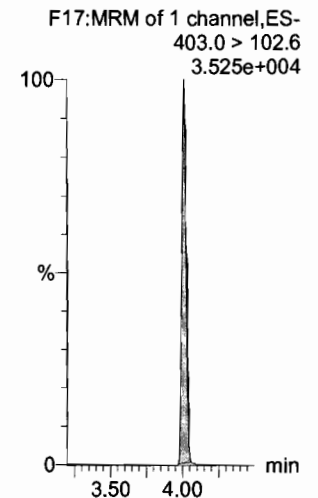
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS

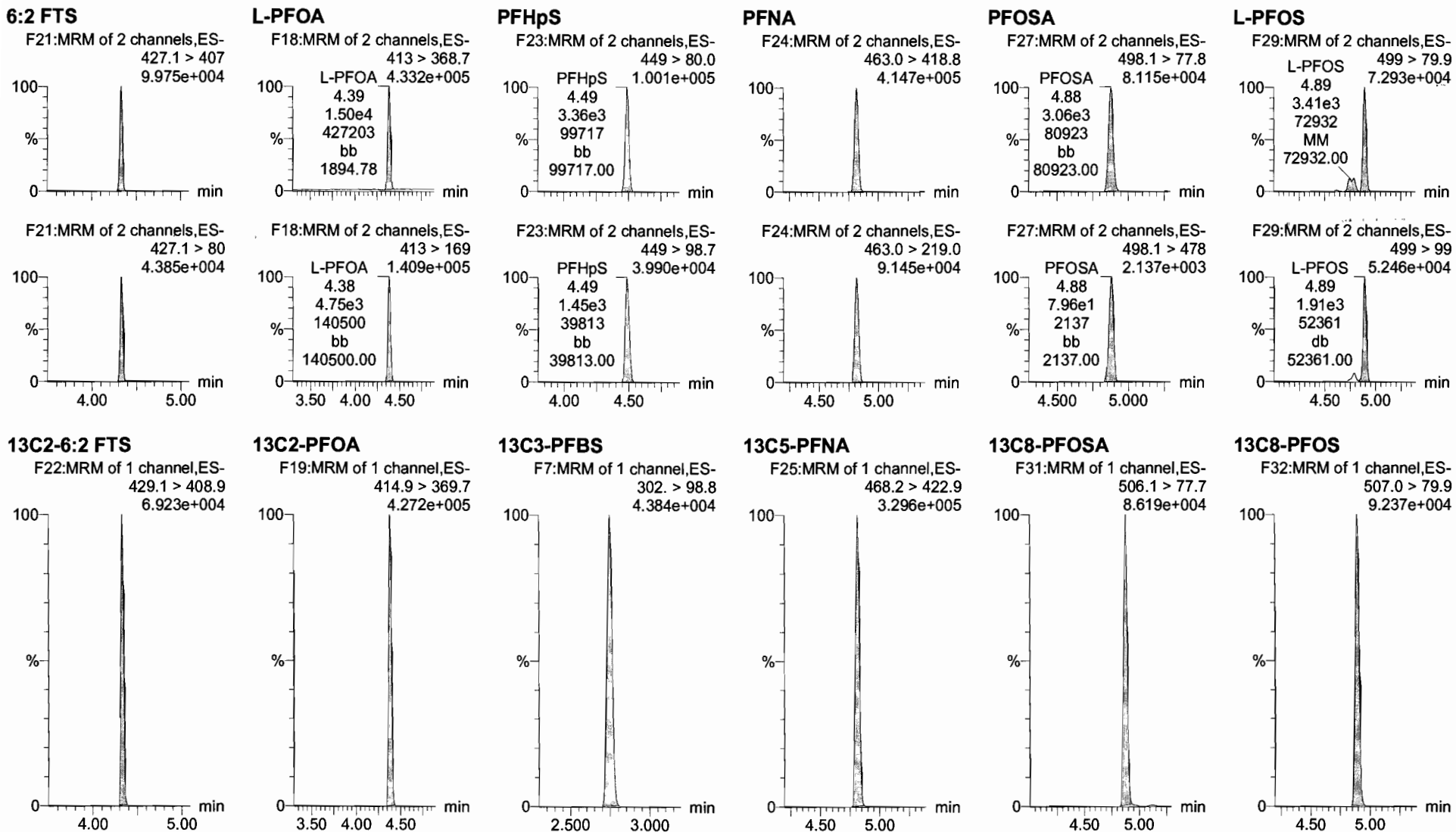


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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

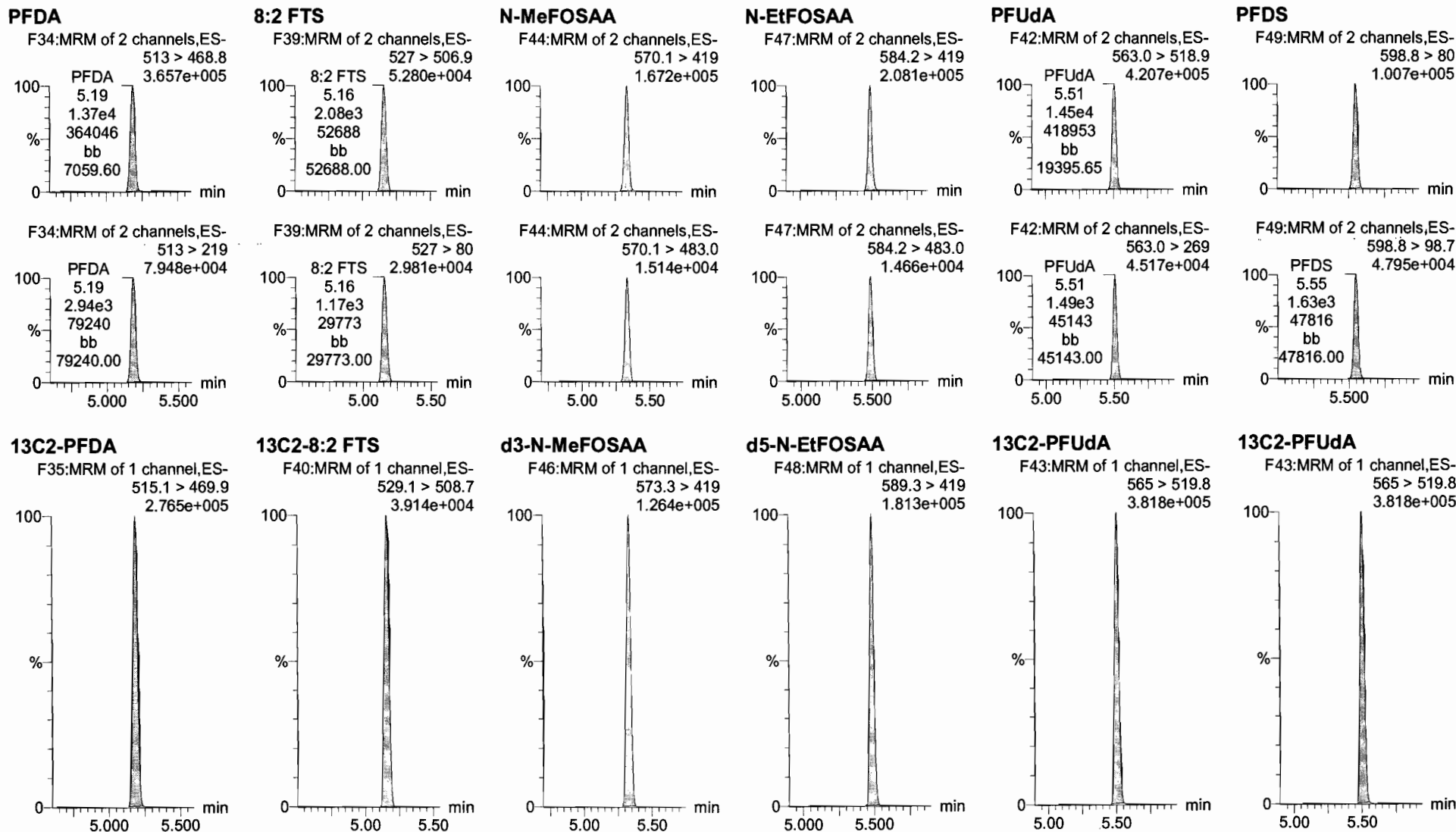


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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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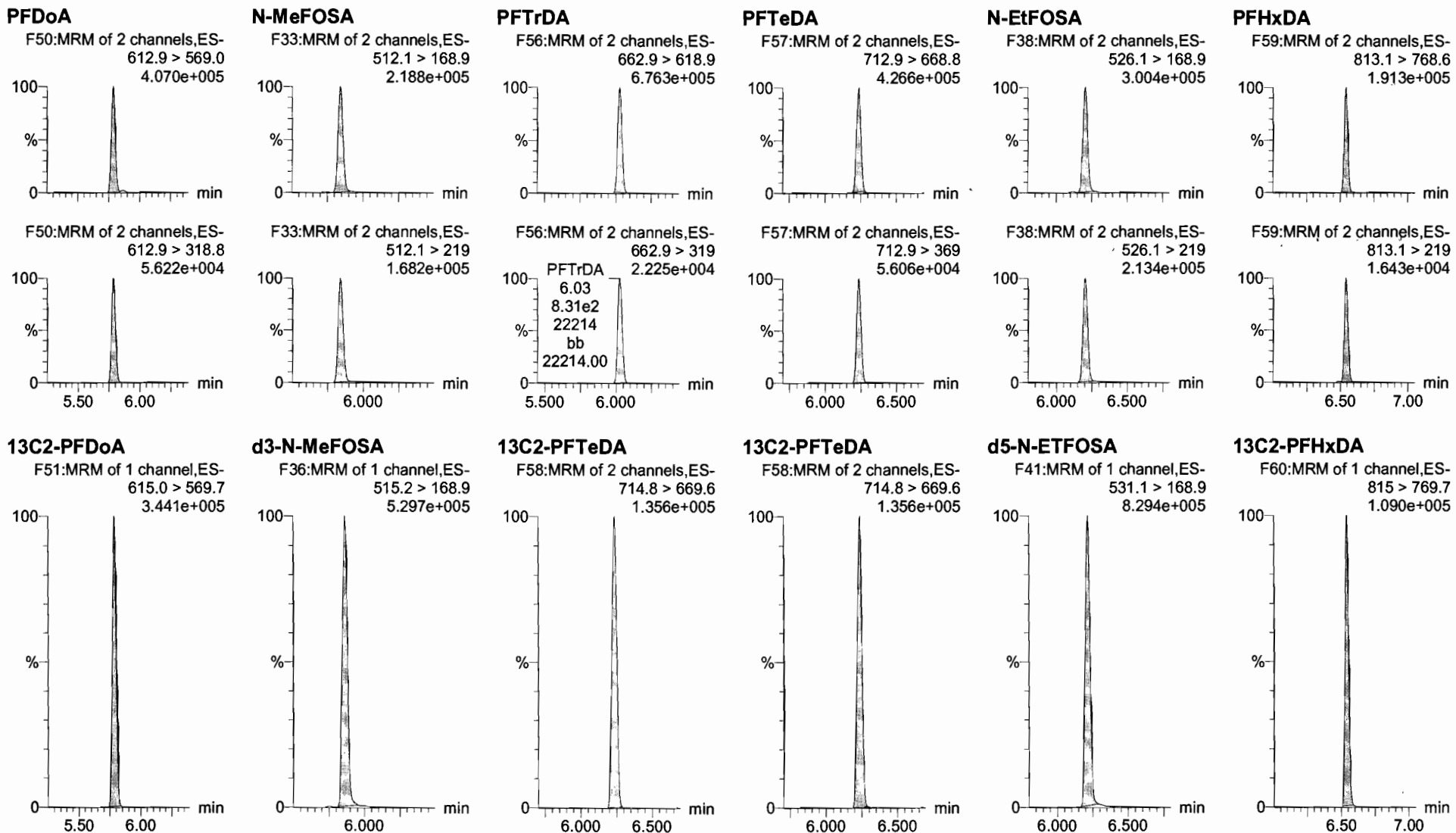


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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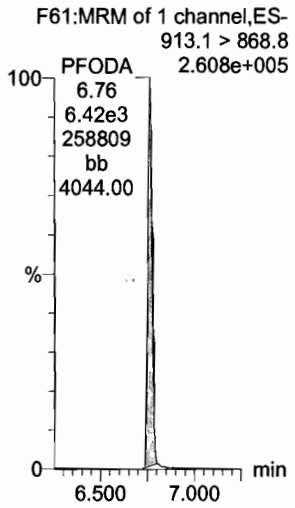
Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

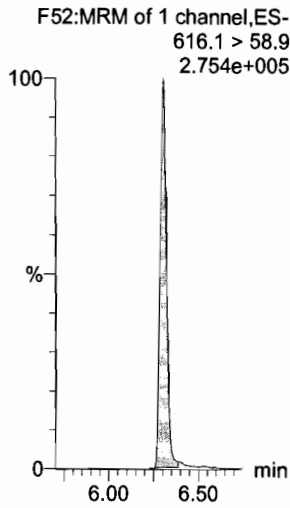
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

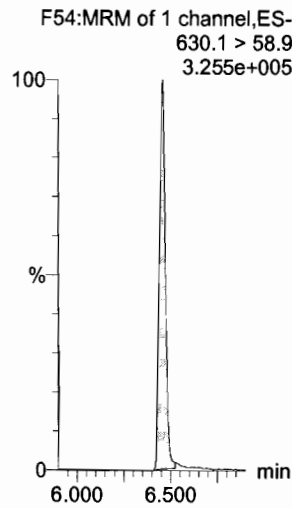
PFODA



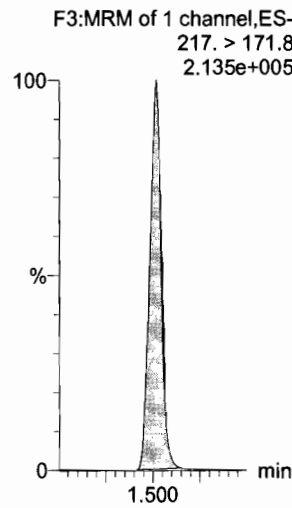
N-MeFOSE



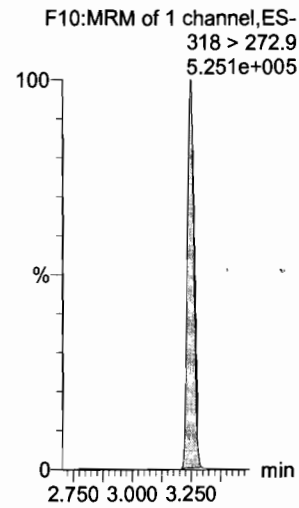
N-EtFOSE



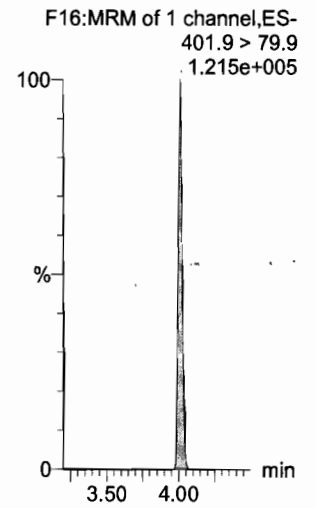
13C4-PFBA



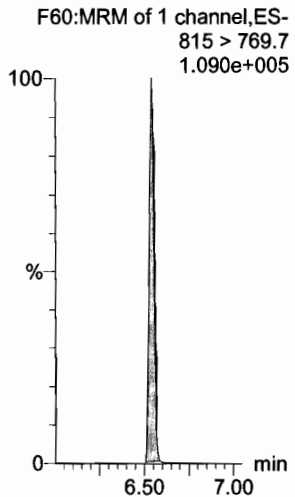
13C5-PFHxA



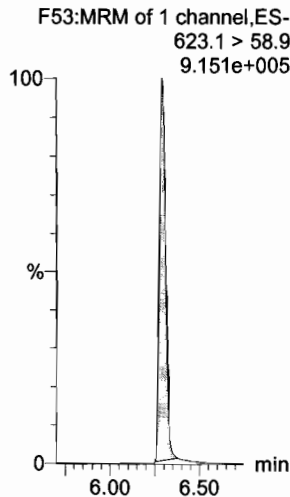
13C3-PFHxS



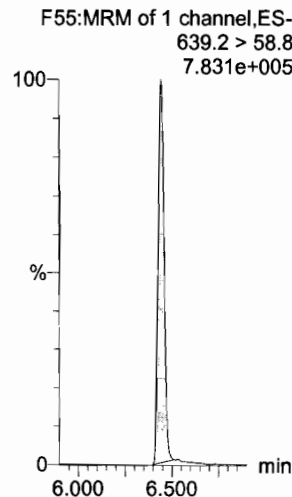
13C2-PFHxD



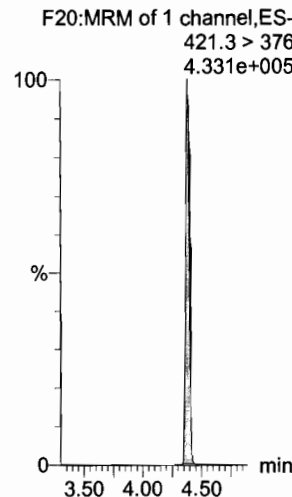
d7-N-MeFOSE



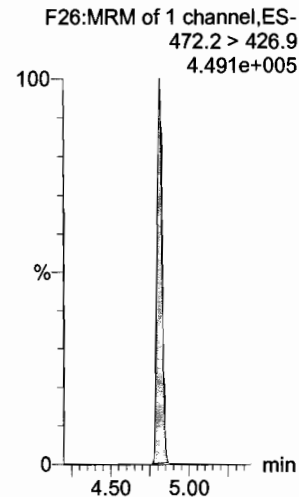
d9-N-EtFOSE



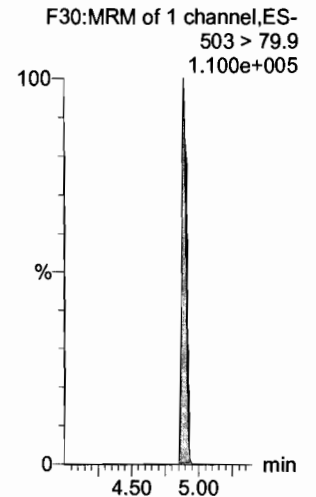
13C8-PFOA



13C9-PFNA



13C4-PFOS



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

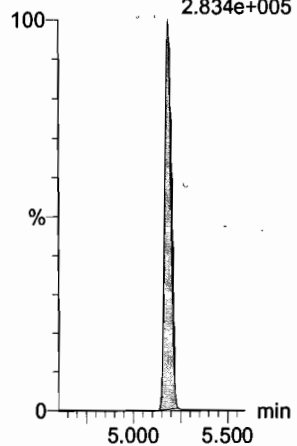
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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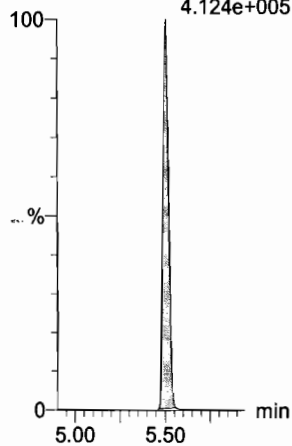
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.834e+005



13C7-PFUdA

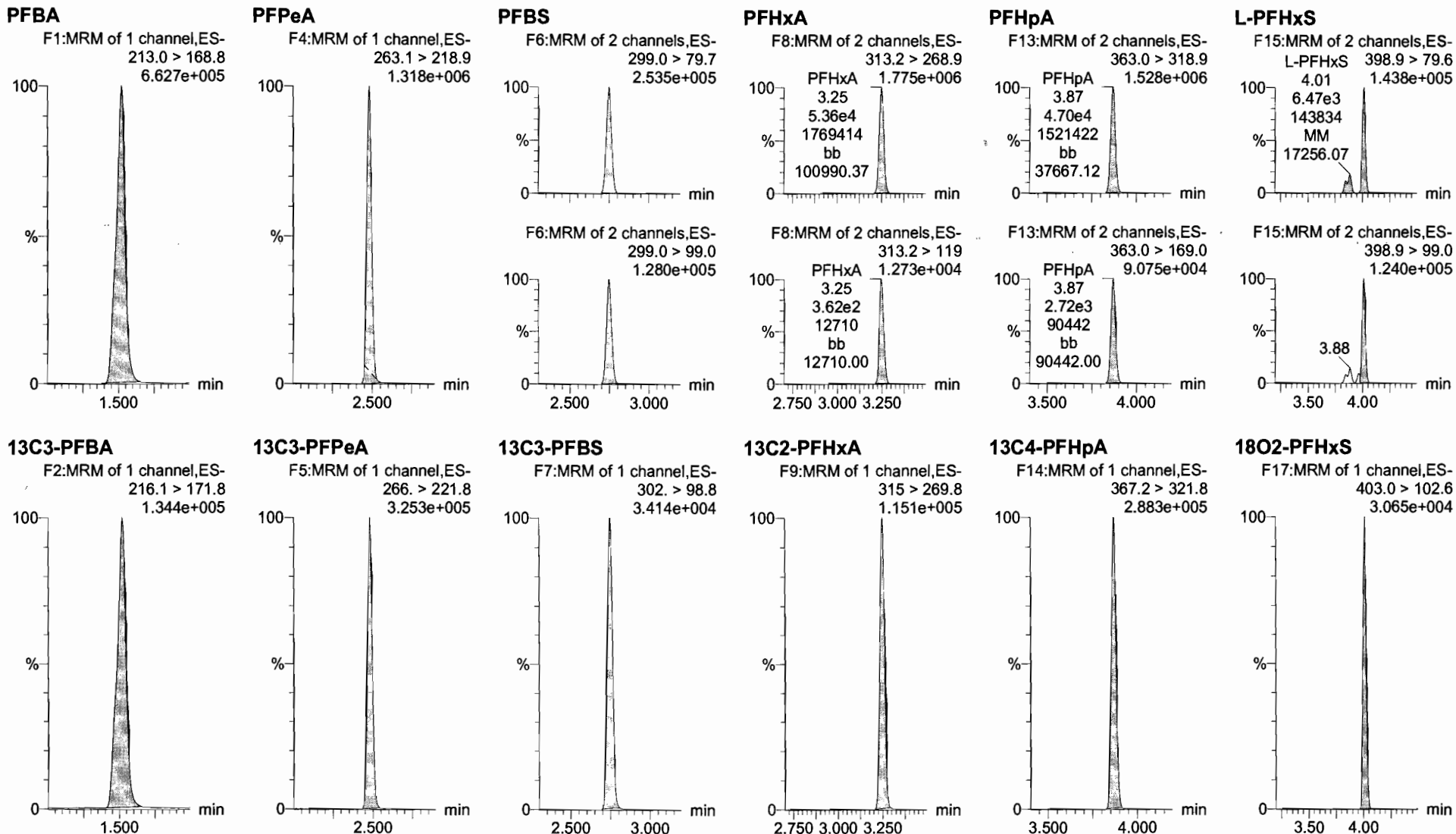
F45:MRM of 1 channel,ES-
570.1 > 524.8
4.124e+005



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

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

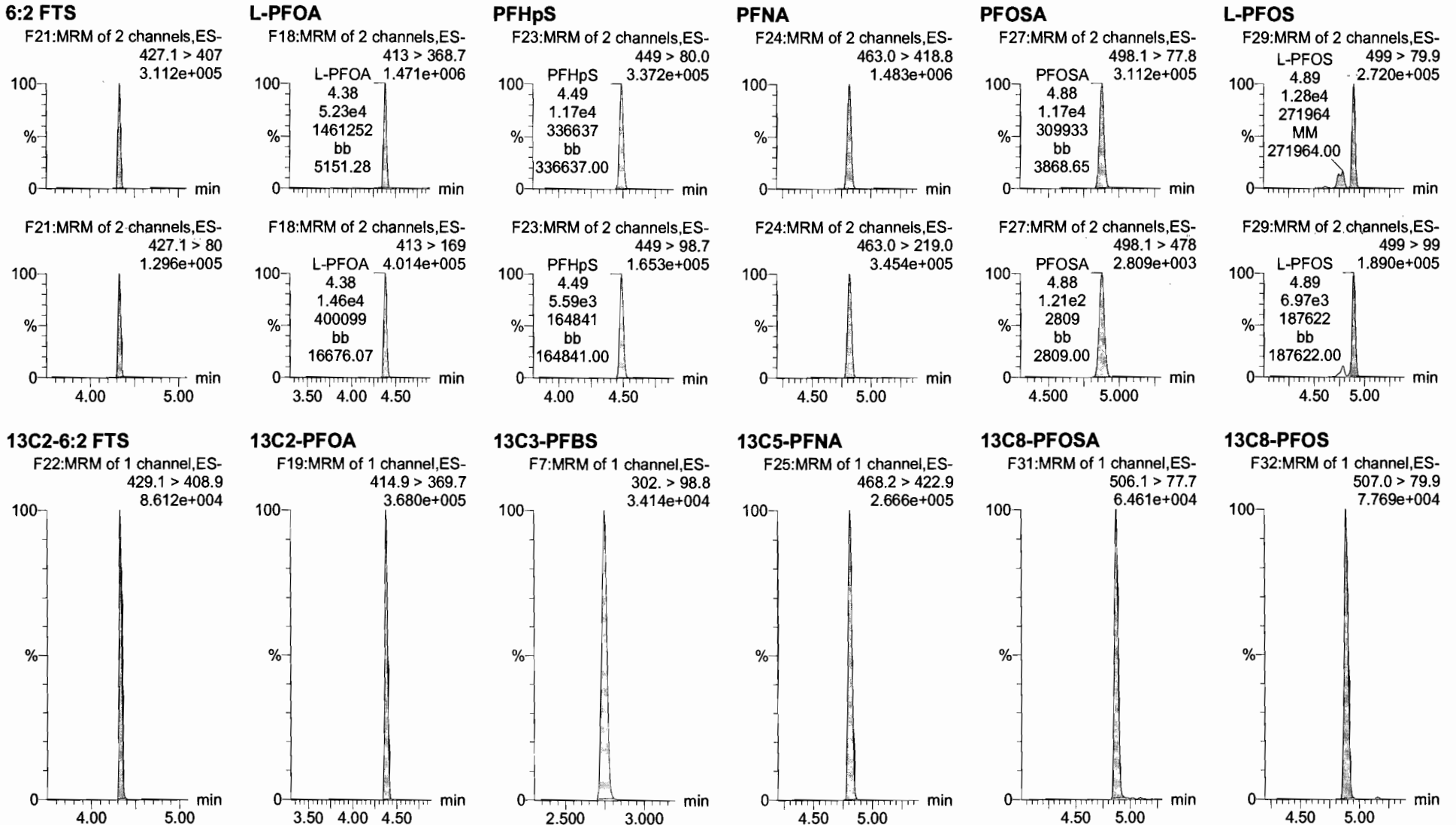
Name: 180115M2_7, Date: 16-Jan-2018, Time: 01:23:11, ID: ST180115M2-7 PFC CS4 17L1208, Description: PFC CS4 17L1208



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

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

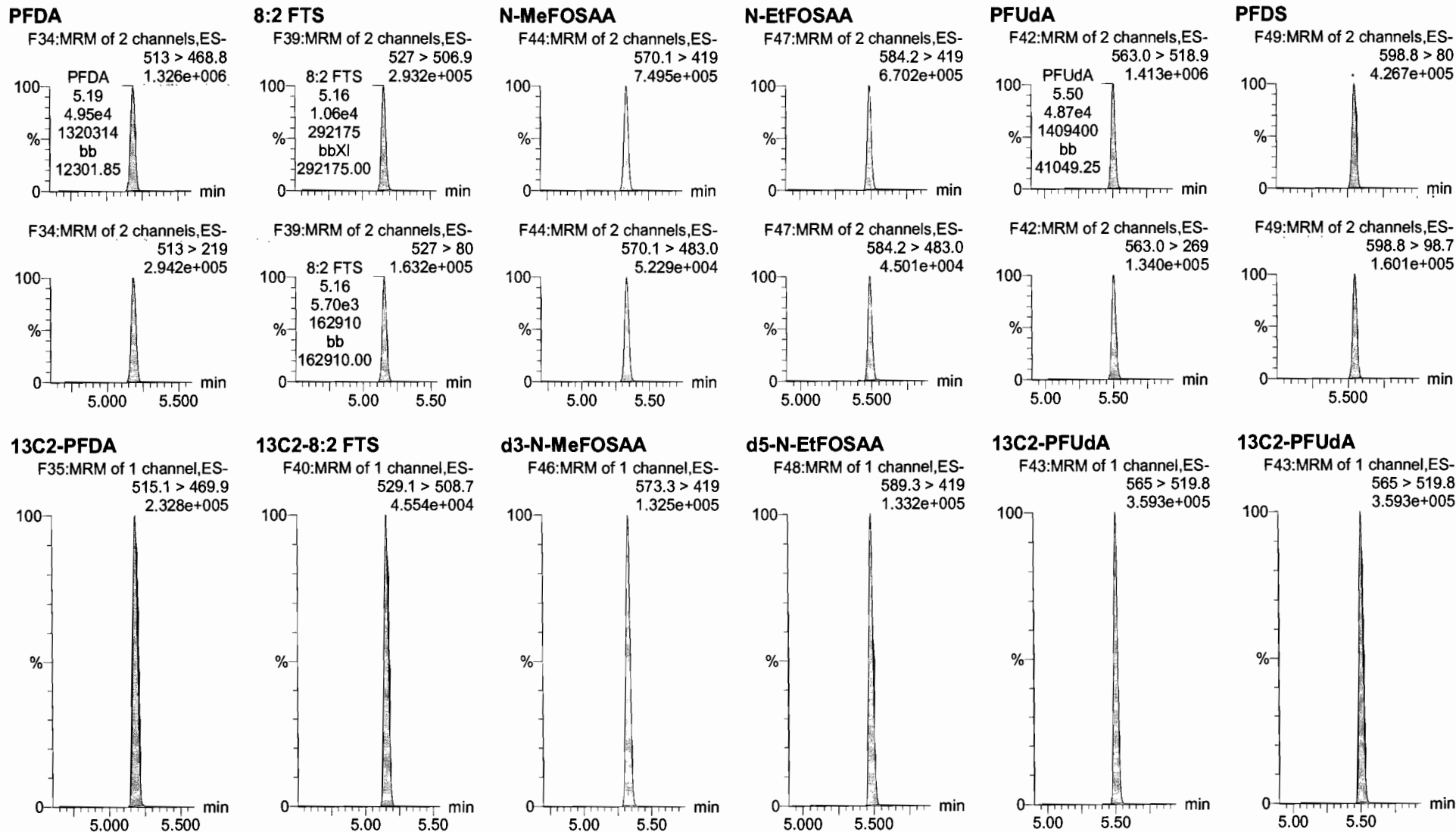


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Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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



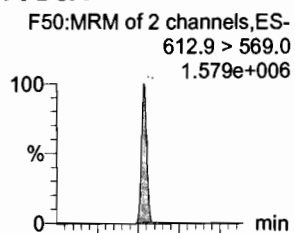
Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

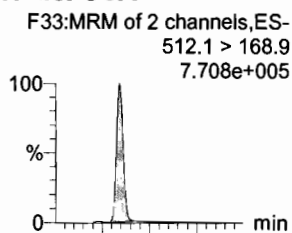
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

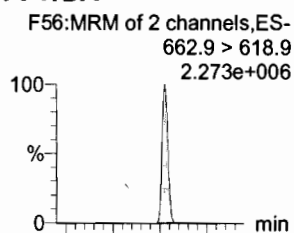
PFD_oA



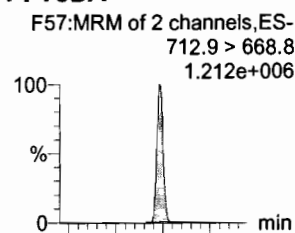
N-MeFOSA



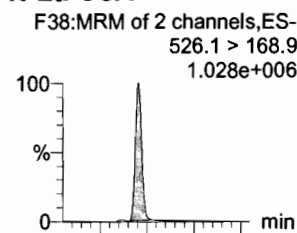
PFT_rDA



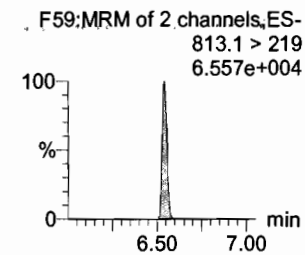
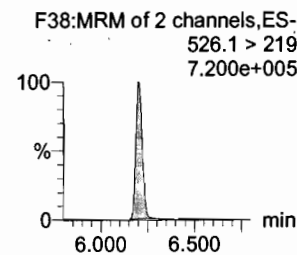
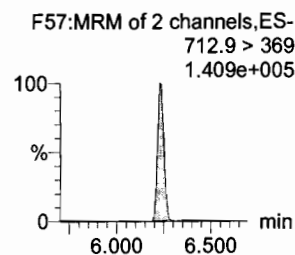
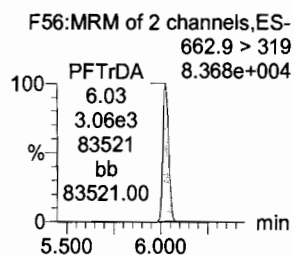
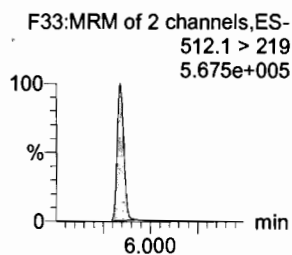
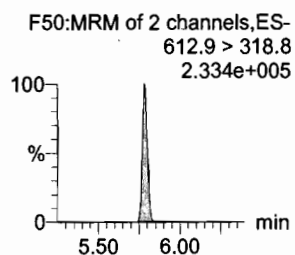
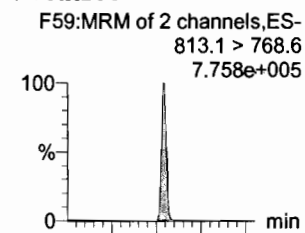
PFT_eDA



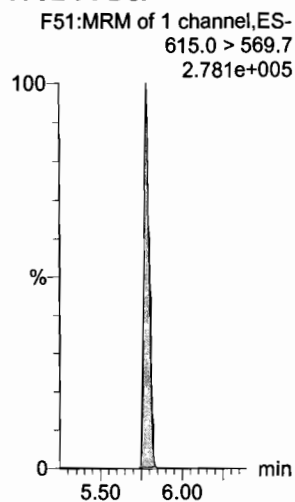
N-EtFOSA



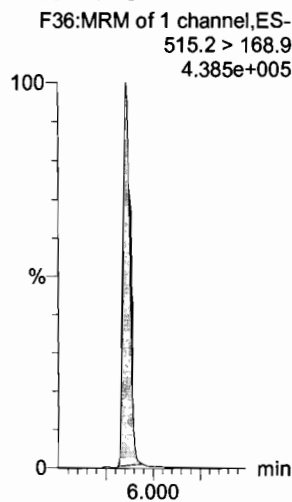
PFH_xDA



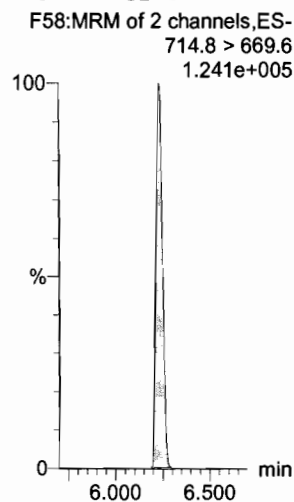
13C2-PFD_oA



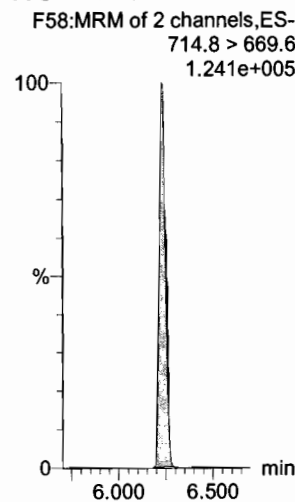
d3-N-MeFOSA



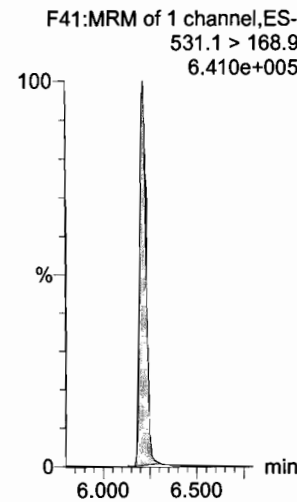
13C2-PFT_eDA



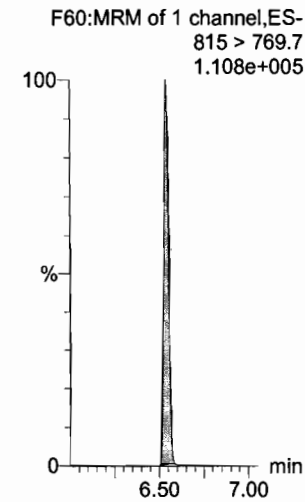
13C2-PFT_eDA



d5-N-ETFOSA



13C2-PFH_xDA



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

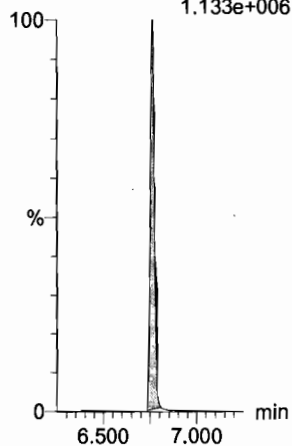
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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

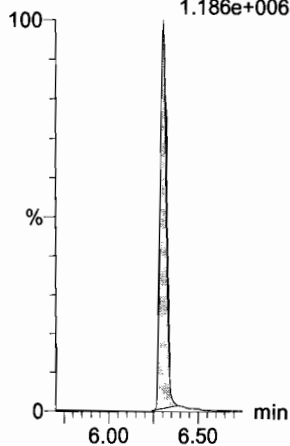
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
1.133e+006



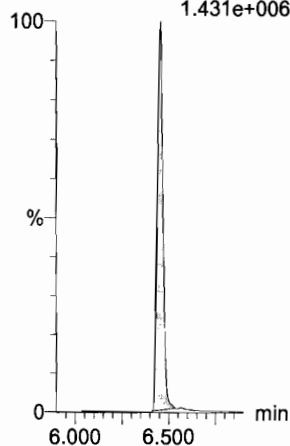
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
1.186e+006



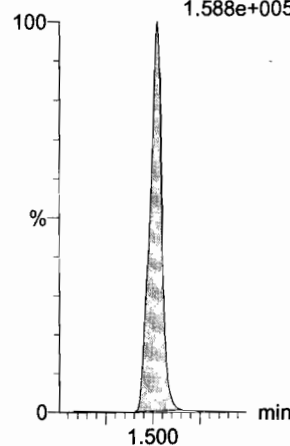
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
1.431e+006



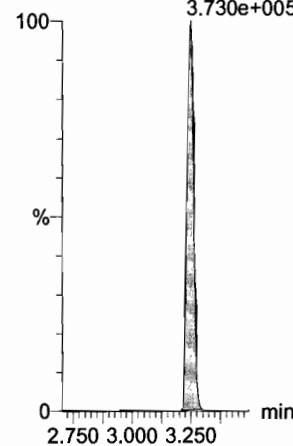
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.588e+005



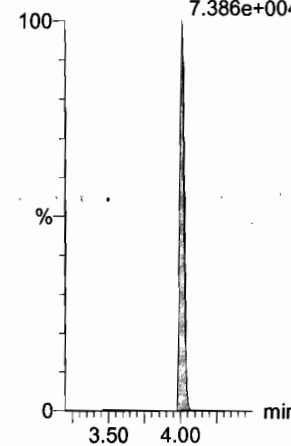
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.730e+005



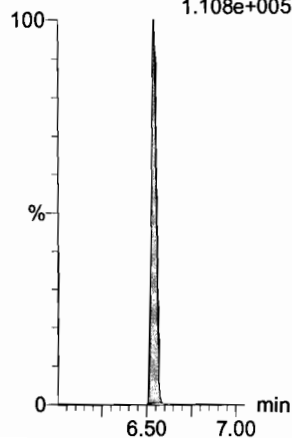
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.386e+004



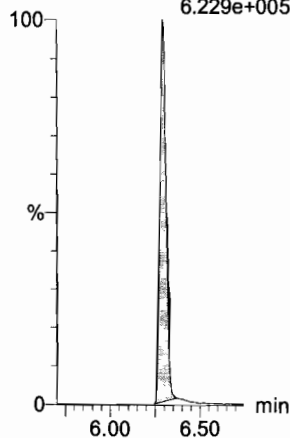
13C2-PFHxDA

F60:MRM of 1 channel,ES-
815 > 769.7
1.108e+005



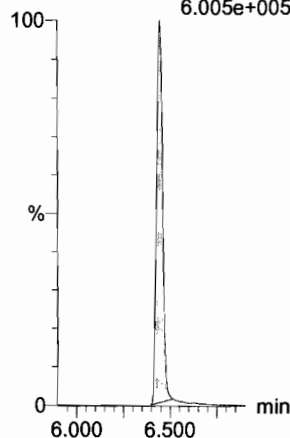
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
6.229e+005



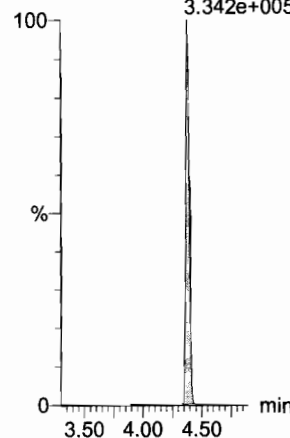
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
6.005e+005



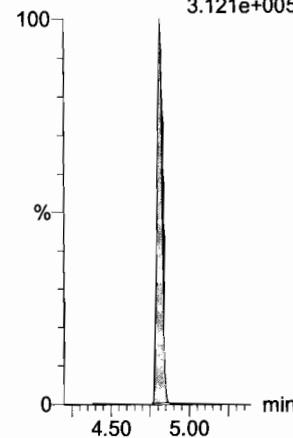
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.342e+005



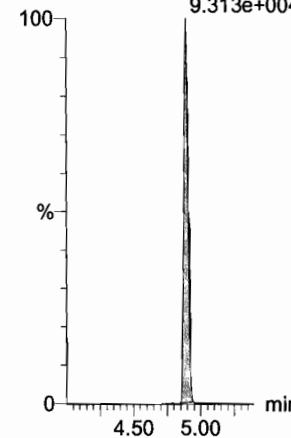
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.121e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
9.313e+004



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

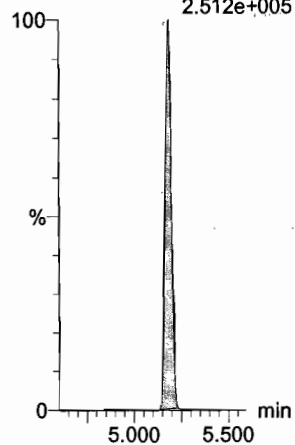
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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

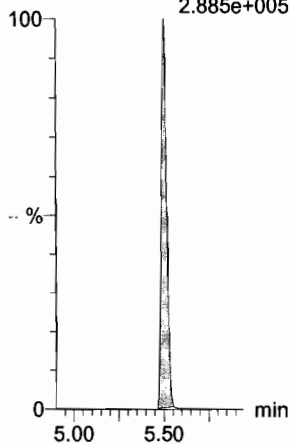
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.512e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
2.885e+005

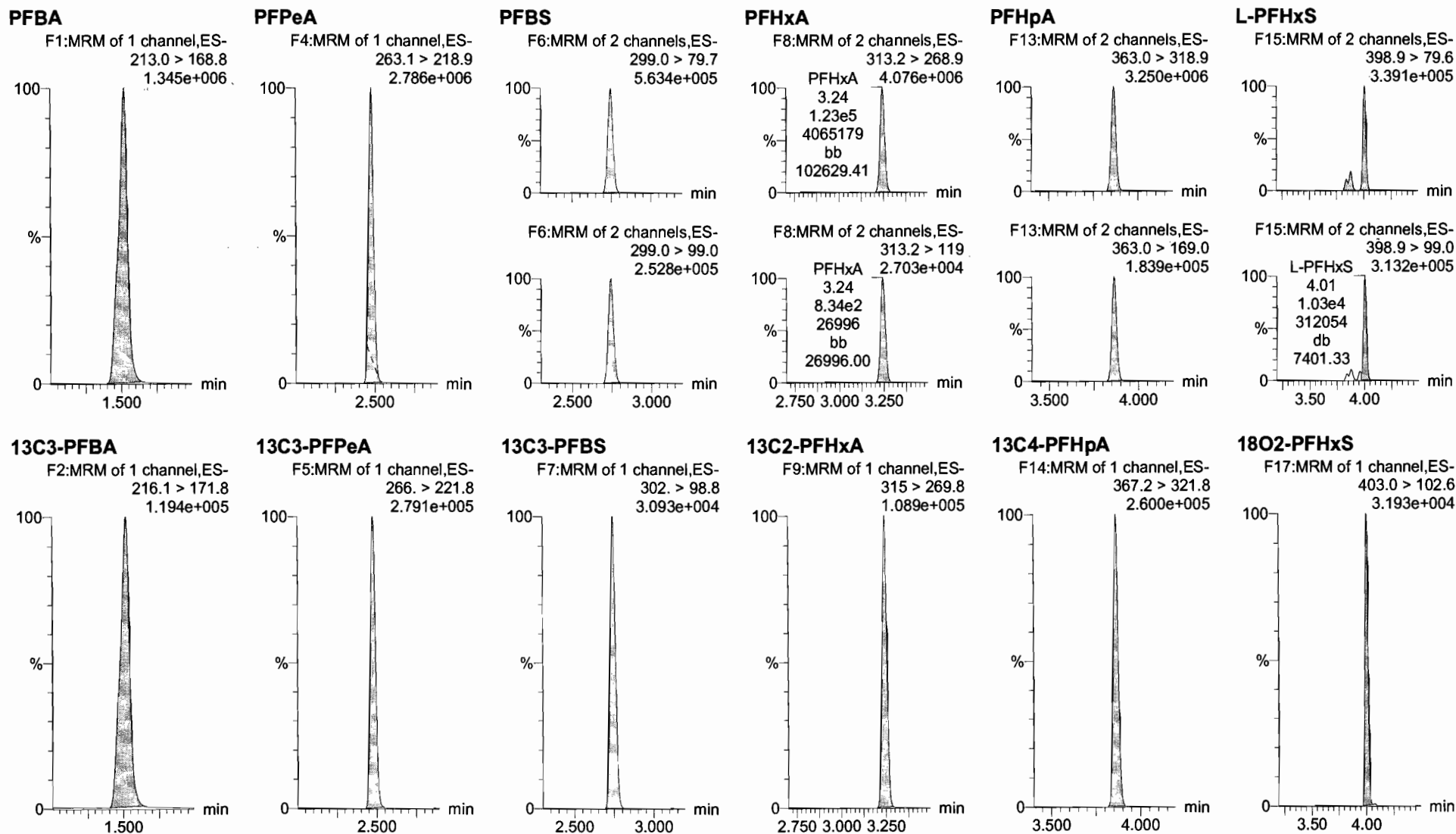


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

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

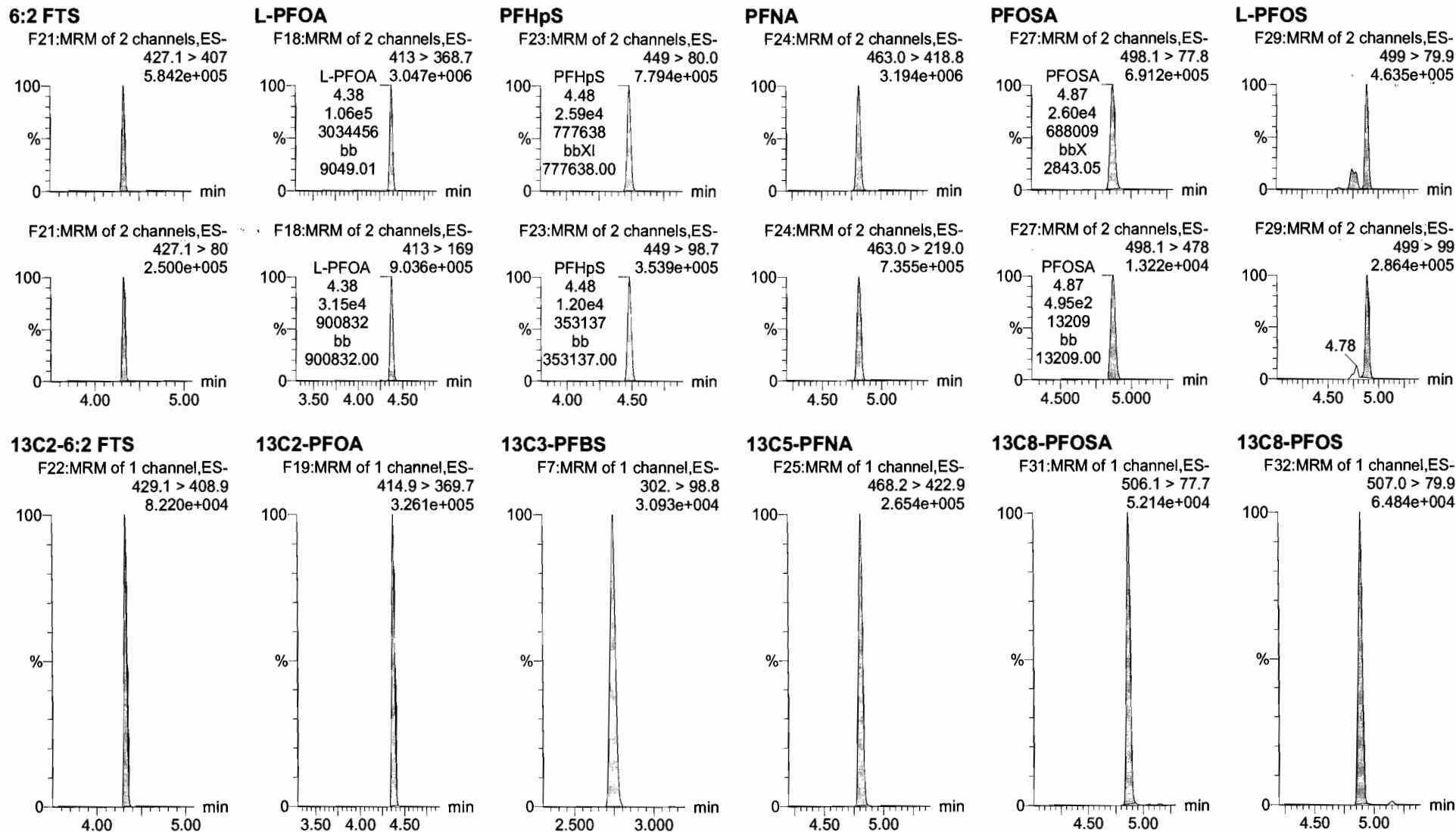


Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

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

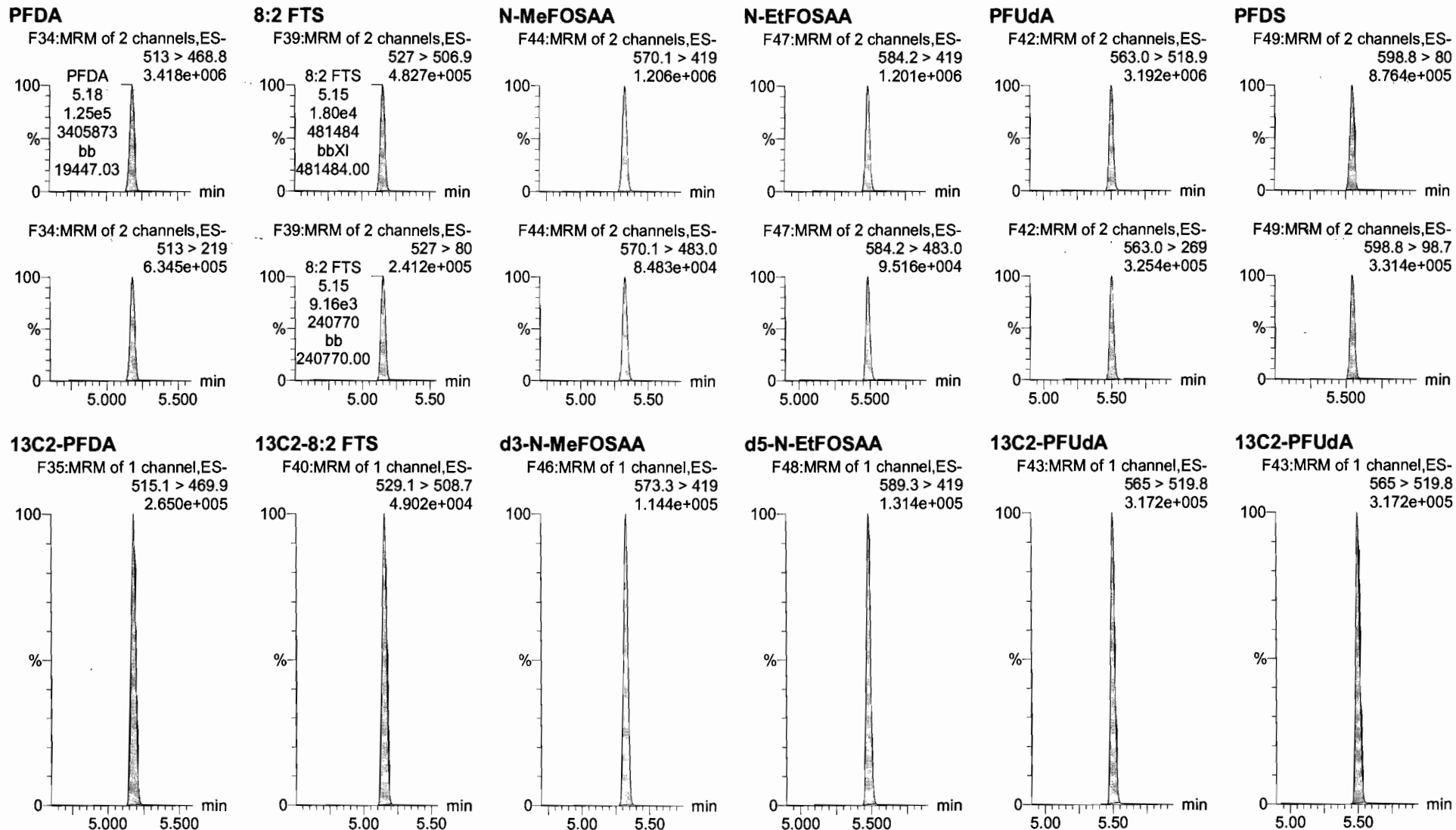
Name: 180115M2_8, Date: 16-Jan-2018, Time: 01:34:38, ID: ST180115M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613



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

Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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



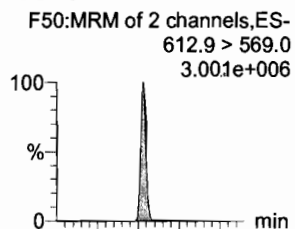
Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld

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

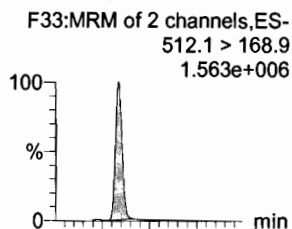
Printed: Tuesday, January 16, 2018 09:39:21 Pacific Standard Time

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

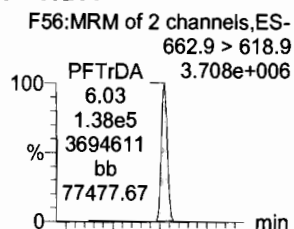
PFDoA



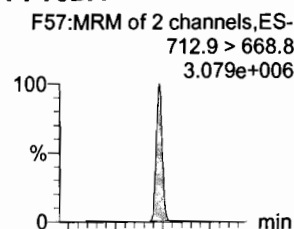
N-MeFOSA



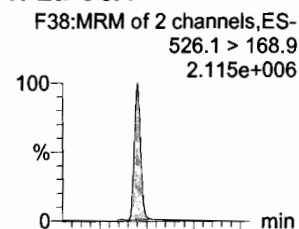
PFTrDA



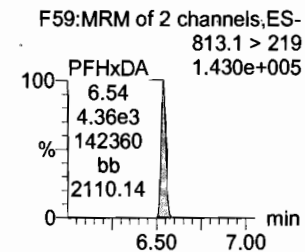
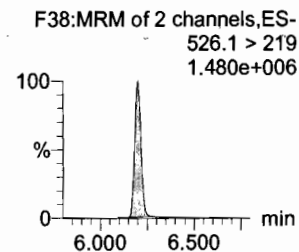
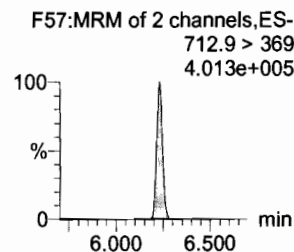
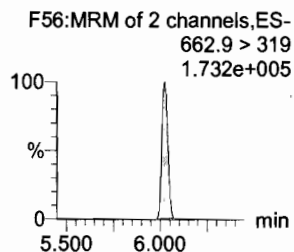
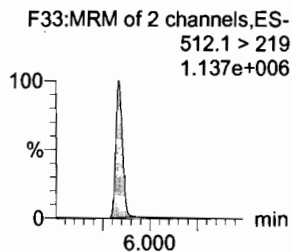
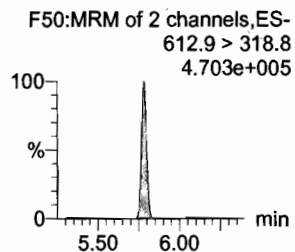
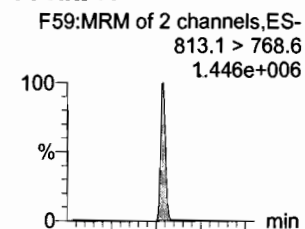
PFTeDA



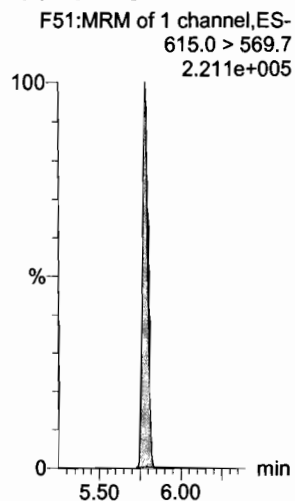
N-EtFOSA



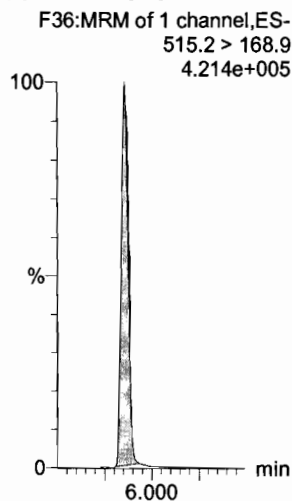
PFHxDA



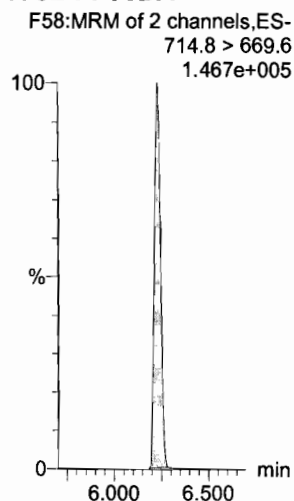
13C2-PFDoA



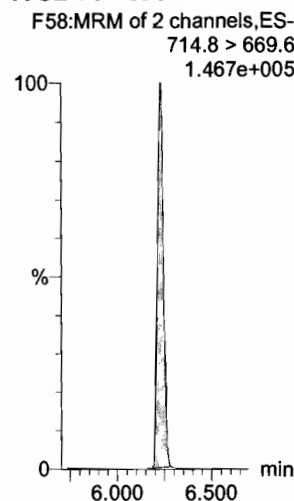
d3-N-MeFOSA



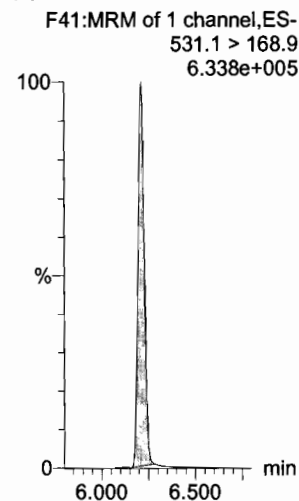
13C2-PFTeDA



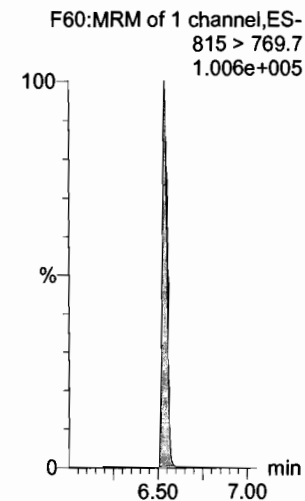
13C2-PFTeDA



d5-N-ETFOSA



13C2-PFHxDA



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

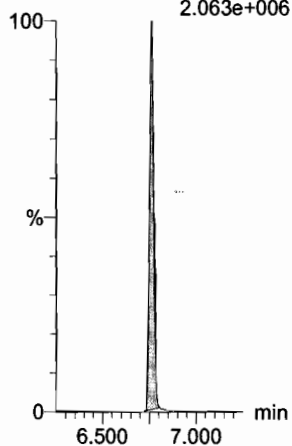
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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

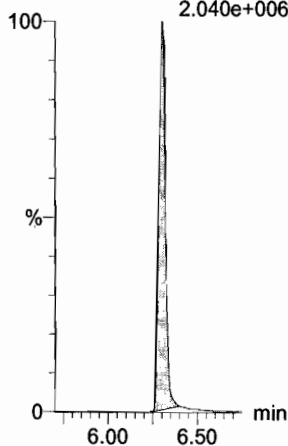
PFODA

F61:MRM of 1 channel,ES-
913.1 > 868.8
2.063e+006



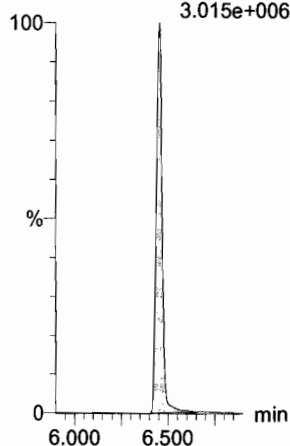
N-MeFOSE

F52:MRM of 1 channel,ES-
616.1 > 58.9
2.040e+006



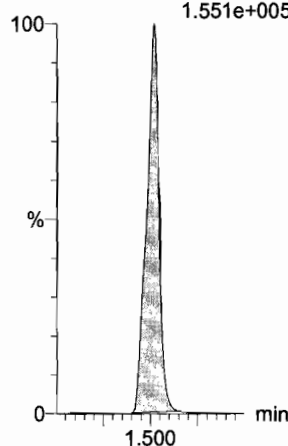
N-EtFOSE

F54:MRM of 1 channel,ES-
630.1 > 58.9
3.015e+006



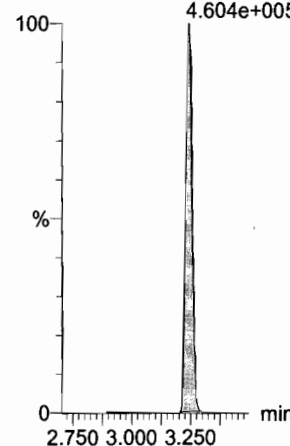
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.551e+005



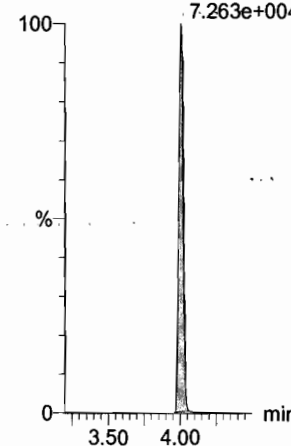
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.604e+005



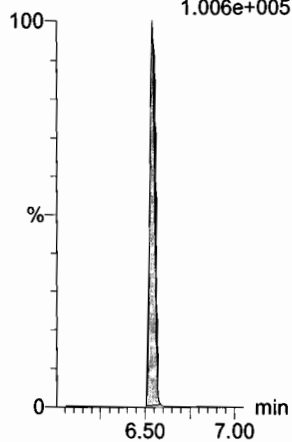
13C3-PFHxS

F16:MRM of 1 channel,ES-
401.9 > 79.9
7.263e+004



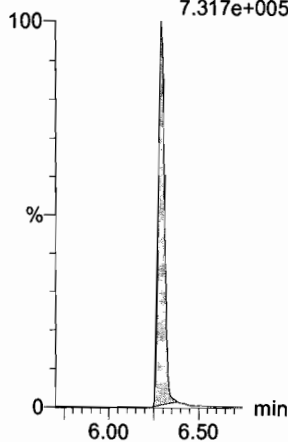
13C2-PFHxD

F60:MRM of 1 channel,ES-
815 > 769.7
1.006e+005



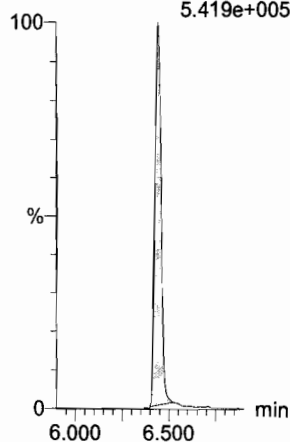
d7-N-MeFOSE

F53:MRM of 1 channel,ES-
623.1 > 58.9
7.317e+005



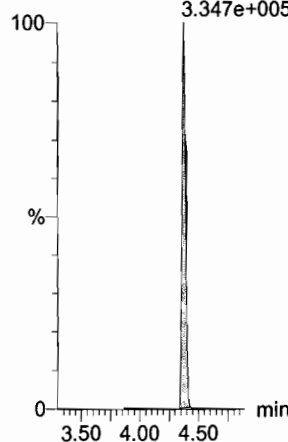
d9-N-EtFOSE

F55:MRM of 1 channel,ES-
639.2 > 58.8
5.419e+005



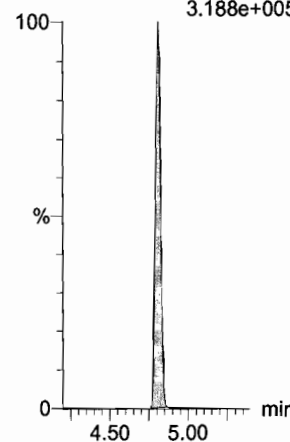
13C8-PFOA

F20:MRM of 1 channel,ES-
421.3 > 376
3.347e+005



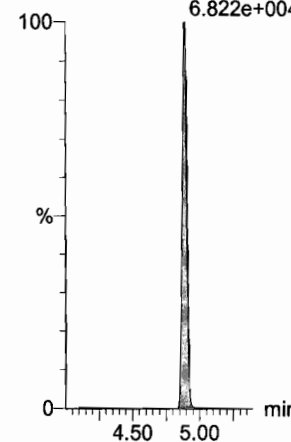
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
3.188e+005



13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
6.822e+004



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

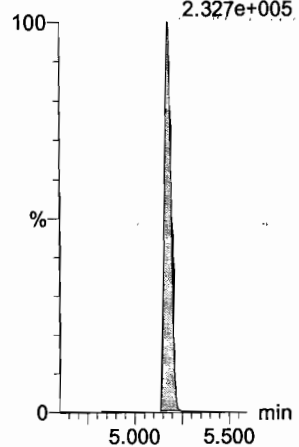
Last Altered: Tuesday, January 16, 2018 09:37:18 Pacific Standard Time

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

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

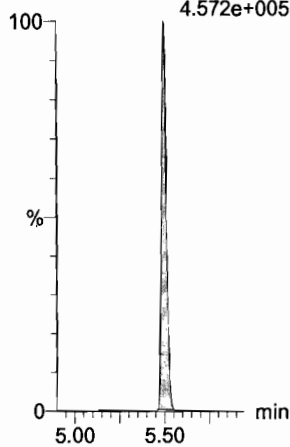
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
2.327e+005



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
4.572e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

Ⓐ PFDS < 70%
Ⓑ No SS available.

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

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

AC
1/16/18
JFA
01/16/2018

#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	4.22e4	4.31e4	1.0000		1.64	1.53	12.2	9.143	91.4
2	2 PFPeA	263.1 > 218.9	3.87e4	4.74e4	1.0000		2.60	2.48	10.2	8.865	88.7
3	3 PFBS	299.0 > 79.7	7.49e3	5.83e3	1.0000		2.87	2.74	16.1	8.388	83.9
4	4 PFHxA	313.2 > 268.9	5.03e4	1.55e4	1.0000		3.36	3.25	16.2	9.233	92.3
5	5 PFHpA	363.0 > 318.9	3.86e4	3.81e4	1.0000		4.00	3.86	12.7	8.516	85.2
6	6 L-PFHxS	398.9 > 79.6	5.32e3	4.45e3	1.0000		4.14	4.01	15.0	7.365	73.7
7	8 6:2 FTS	427.1 > 407	7.45e3	4.45e3	1.0000		4.46	4.32	20.9	7.277	72.8
8	9 L-PFOA	413 > 368.7	4.17e4	5.84e4	1.0000		4.50	4.38	8.91	7.641	76.4
9	11 PFHpS	449 > 80.0	1.07e4	5.84e4	1.0000		4.60	4.48	2.29	8.064	80.6
10	12 PFNA	463.0 > 418.8	4.68e4	4.69e4	1.0000		4.94	4.81	12.5	9.162	91.6
11	13 PFOSA	498.1 > 77.8	3.83e3	3.99e3	1.0000		5.00	4.87	12.0	9.978	99.8
12	14 L-PFOS	499 > 79.9	9.56e3	1.09e4	1.0000		5.02	4.89	11.0	9.839	98.4
13	16 PFDA	513 > 468.8	3.70e4	4.01e4	1.0000		5.31	5.18	11.5	8.007	80.1
14	17 8:2 FTS	527 > 506.9	6.16e3	4.01e4	1.0000		5.28	5.15	1.92	7.523	75.2
15	18 N-MeFOSAA	570.1 > 419	1.06e4	9.21e3	1.0000		5.45	5.33	14.4	8.677	86.8
16	19 N-EtFOSAA	584.2 > 419	8.54e3	1.06e4	1.0000		5.60	5.48	10.0	7.762	77.6
17	20 PFUdA	563.0 > 518.9	1.34e4	1.66e4	1.0000		5.62	5.50	10.1	7.882	78.8
18	21 PFDS	598.8 > 80	1.97e3	1.66e4	1.0000		5.67	5.55	1.48	4.394	43.9
19	22 PFDoA	612.9 > 569.0	7.26e3	5.53e3	1.0000		5.91	5.78	16.4	11.272	112.7
20	23 N-MeFOSA	512.1 > 168.9		2.76e3	1.0000		5.87				
21	24 PFTDA	662.9 > 618.9	6.78e3	5.53e3	1.0000		6.15	6.03	15.3	7.147	71.5
22	25 PFTeDA	712.9 > 668.8	3.76e3	1.87e3	1.0000		6.35	6.23	25.2	7.572	75.7
23	26 N-EtFOSA	526.1 > 168.9		2.97e3	1.0000		6.25				
24	27 PFHxDA	813.1 > 768.6		1.01e3	1.0000		6.64				
25	28 PFODA	913.1 > 868.8		1.01e3	1.0000		6.85				
26	29 N-MeFOSE	616.1 > 58.9		1.02e4	1.0000		6.31				
27	30 N-EtFOSE	630.1 > 58.9		9.18e3	1.0000		6.45				
28	31 13C3-PFBA	216.1 > 171.8	4.31e4	4.78e4	1.0000	0.779	1.64	1.53	11.3	14.466	115.7
29	32 13C3-PFPeA	266. > 221.8	4.74e4	5.13e4	1.0000	0.797	2.60	2.48	11.5	14.472	115.8
30	33 13C3-PFBS	302. > 98.8	5.83e3	5.13e4	1.0000	0.095	2.87	2.75	1.42	14.929	119.4
31	34 13C3-PFHxA	313.2 > 268.9	1.55e4	5.13e4	1.0000	0.636	3.36	3.25	3.78	5.937	118.7

70-130

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Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

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

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	3.81e4	5.13e4	1.0000	0.621	4.00	3.86	9.27	14.929	119.4
33	36 18O2-PFHxS	403.0 > 102.6	4.45e3	1.25e4	1.0000	0.336	4.14	4.01	4.44	13.221	105.8
34	37 13C2-6:2 FTS	429.1 > 408.9	9.75e3	4.79e4	1.0000	0.192	4.46	4.33	2.55	13.229	105.8
35	38 13C2-PFOA	414.9 > 369.7	5.84e4	4.79e4	1.0000	1.001	4.50	4.38	15.3	15.234	121.9
36	39 13C5-PFNA	468.2 > 422.9	4.69e4	4.38e4	1.0000	0.811	4.94	4.81	13.4	16.506	132.0
37	40 13C8-PFOA	506.1 > 77.7	3.99e3	1.79e4	1.0000	0.196	5.00	4.87	2.78	14.134	113.1
38	41 13C8-PFOS	507.0 > 79.9	1.09e4	1.14e4	1.0000	0.862	5.02	4.89	11.9	13.836	110.7
39	42 13C2-PFDA	515.1 > 469.9	4.01e4	3.72e4	1.0000	0.996	5.31	5.18	13.5	13.560	108.5
40	43 13C2-8:2 FTS	529.1 > 508.7	4.91e3	5.13e4	1.0000	0.103	5.28	5.15	1.19	11.599	92.8
41	44 d3-N-MeFOSAA	573.3 > 419	9.21e3	1.79e4	1.0000	0.340	5.45	5.32	6.42	18.871	151.0
42	45 d5-N-EtFOSAA	589.3 > 419	1.06e4	1.79e4	1.0000	0.377	5.60	5.48	7.41	19.663	157.3
43	46 13C2-PFUdA	565 > 519.8	1.66e4	1.79e4	1.0000	0.944	5.62	5.50	11.5	12.235	97.9
44	47 13C2-PFDoA	615.0 > 569.7	5.53e3	1.79e4	1.0000	0.726	5.91	5.78	3.85	5.307	42.5
45	48 d3-N-MeFOSA	515.2 > 168.9	2.76e3	1.79e4	1.0000	0.119	5.87	5.86	1.92	16.158	10.8
46	49 13C2-PFTeDA	714.8 > 669.6	1.87e3	1.79e4	1.0000	0.371	6.35	6.23	1.30	3.503	28.0
47	50 d5-N-ETFOSA	531.1 > 168.9	2.97e3	1.79e4	1.0000	0.174	6.25	6.21	2.07	11.921	7.9
48	51 13C2-PFHxDA	815 > 769.7	1.01e3	1.79e4	1.0000	0.559	6.64	6.54	0.702	1.256	25.1
49	52 d7-N-MeFOSE	623.1 > 58.9	1.02e4	1.79e4	1.0000	0.179	6.31	6.29	7.09	39.533	26.4
50	53 d9-N-EtFOSE	639.2 > 58.8	9.18e3	1.79e4	1.0000	0.160	6.45	6.44	6.40	40.069	26.7
51	54 13C4-PFBA	217. > 171.8	4.78e4	4.78e4	1.0000	1.000	1.64	1.52	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	5.13e4	5.13e4	1.0000	1.000	3.36	3.25	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	1.25e4	1.25e4	1.0000	1.000	4.14	4.01	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	4.79e4	4.79e4	1.0000	1.000	4.50	4.38	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	4.38e4	4.38e4	1.0000	1.000	4.94	4.81	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	1.14e4	1.14e4	1.0000	1.000	5.02	4.89	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	3.72e4	3.72e4	1.0000	1.000	5.31	5.18	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.79e4	1.79e4	1.0000	1.000	5.62	5.50	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

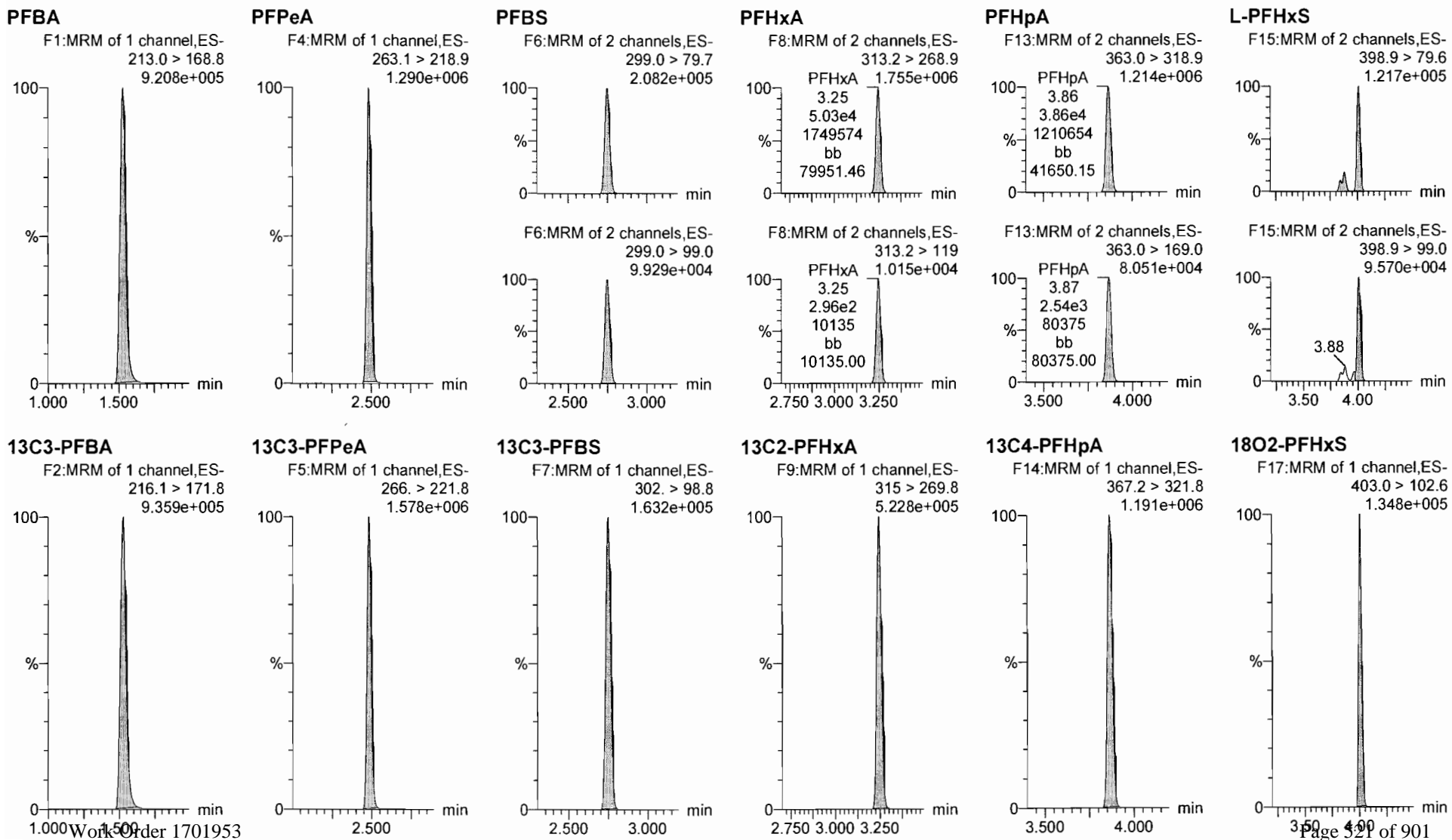
Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

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

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

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



Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

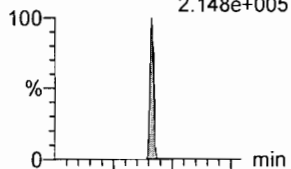
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Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

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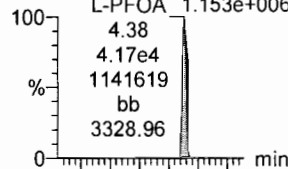
6:2 FTS

F21:MRM of 2 channels,ES-
427.1 > 407
2.148e+005



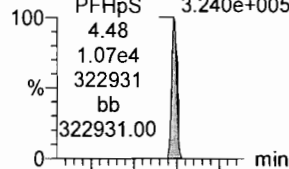
L-PFOA

F18:MRM of 2 channels,ES-
413 > 368.7
1.153e+006



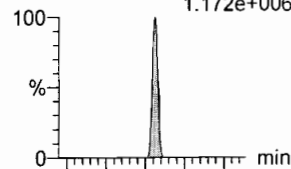
PFHpS

F23:MRM of 2 channels,ES-
449 > 80.0
3.240e+005



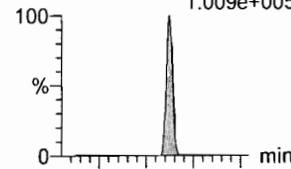
PFNA

F24:MRM of 2 channels,ES-
463.0 > 418.8
1.172e+006



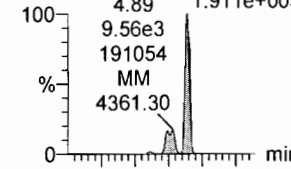
PFOSA

F27:MRM of 2 channels,ES-
498.1 > 77.8
1.009e+005

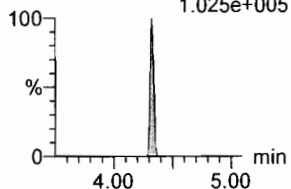


L-PFOS

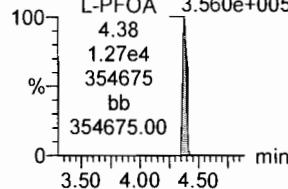
F29:MRM of 2 channels,ES-
L-PFOS 499 > 79.9
1.911e+005
4.89
9.56e3
191054
MM
4361.30



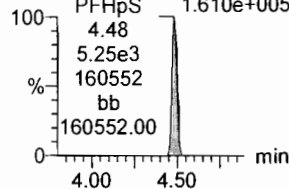
F21:MRM of 2 channels,ES-
427.1 > 80
1.025e+005



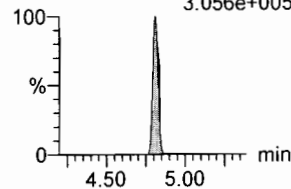
F18:MRM of 2 channels,ES-
413 > 169
3.560e+005



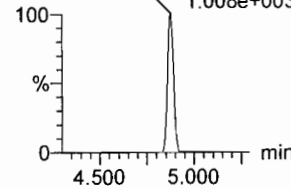
F23:MRM of 2 channels,ES-
449 > 98.7
1.610e+005



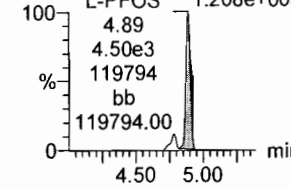
F24:MRM of 2 channels,ES-
463.0 > 219.0
3.056e+005



F27:MRM of 2 channels,ES-
498.1 > 478
1.008e+003

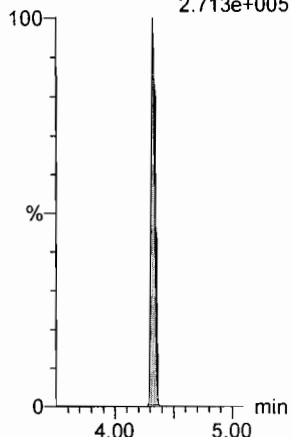


F29:MRM of 2 channels,ES-
499 > 99
1.208e+005



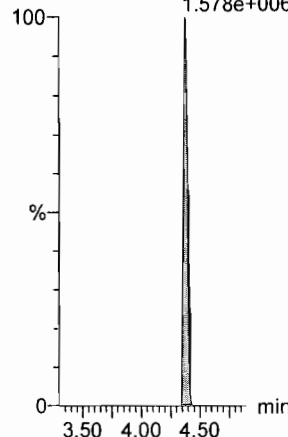
13C2-6:2 FTS

F22:MRM of 1 channel,ES-
429.1 > 408.9
2.713e+005



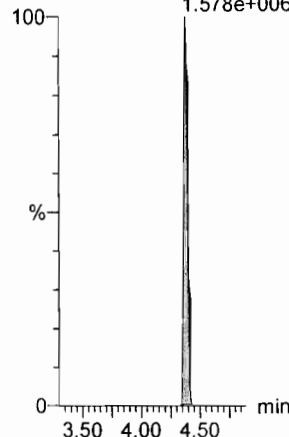
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
1.578e+006



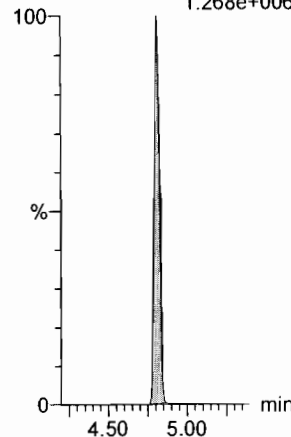
13C2-PFOA

F19:MRM of 1 channel,ES-
414.9 > 369.7
1.578e+006



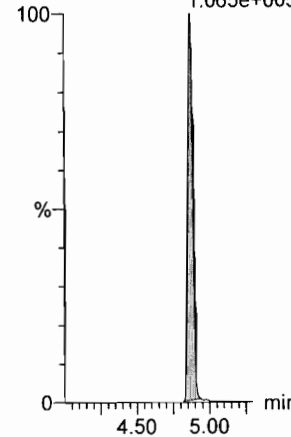
13C5-PFNA

F25:MRM of 1 channel,ES-
468.2 > 422.9
1.268e+006



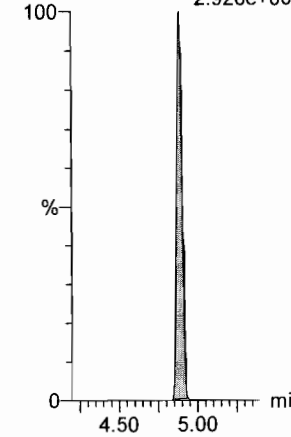
13C8-PFOSA

F31:MRM of 1 channel,ES-
506.1 > 77.7
1.065e+005



13C8-PFOS

F32:MRM of 1 channel,ES-
507.0 > 79.9
2.928e+005

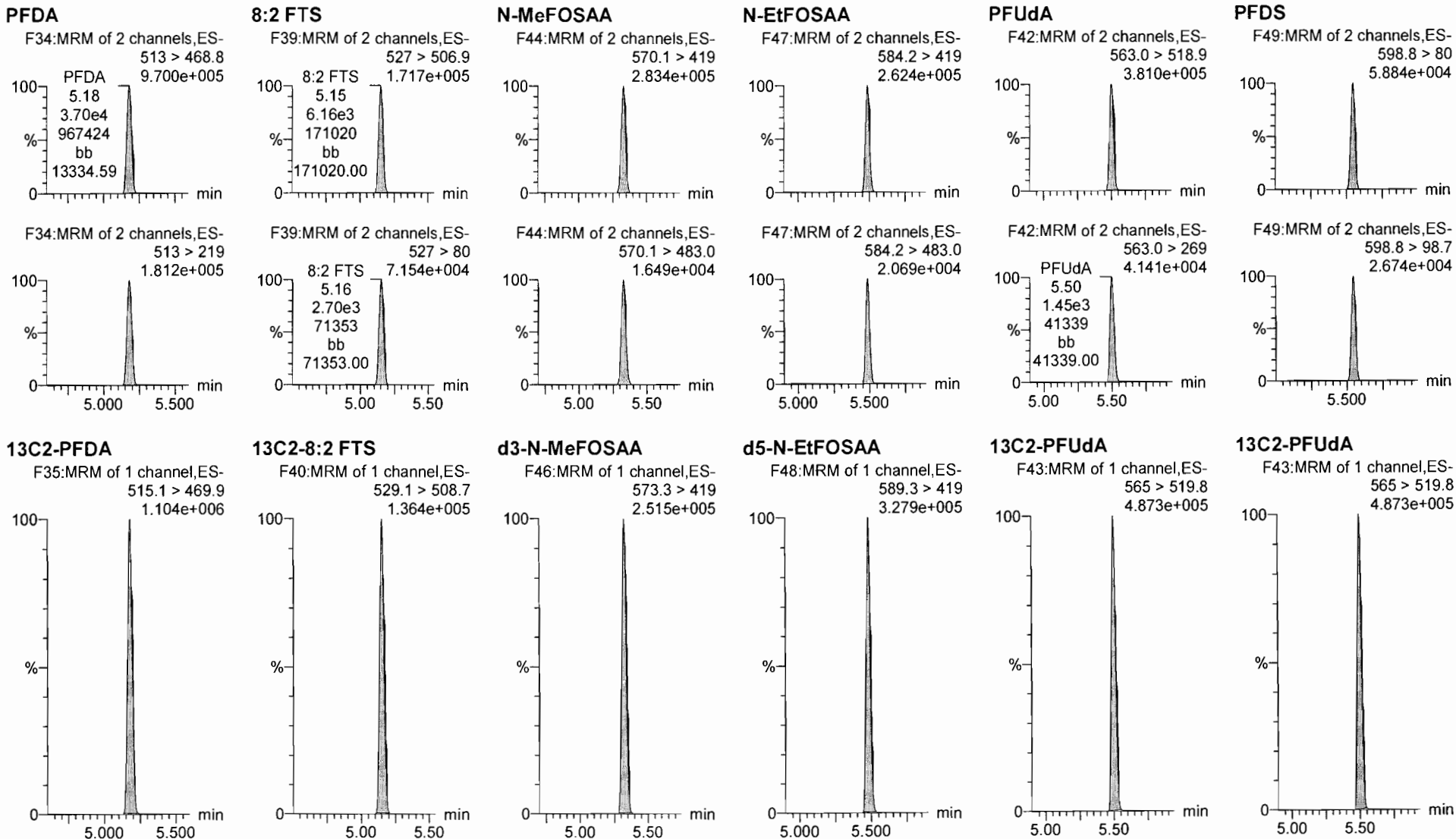


Dataset: U:\Q4.PRO\results\180115M2\180115M2-10.qld

Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time

Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

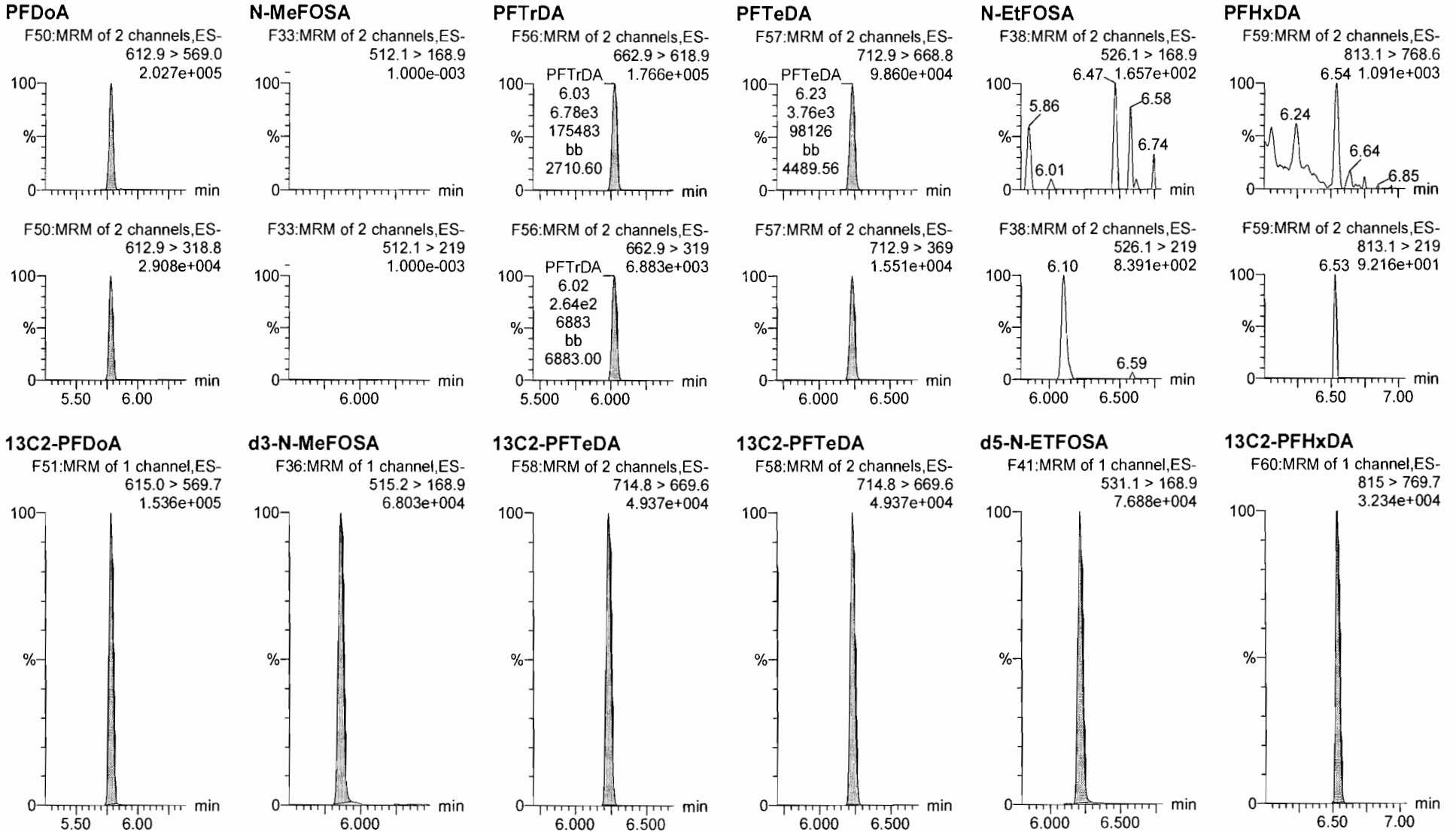
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Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

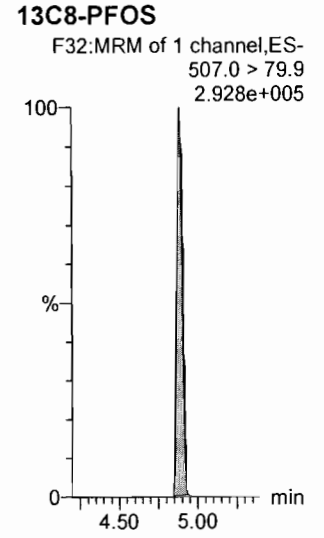
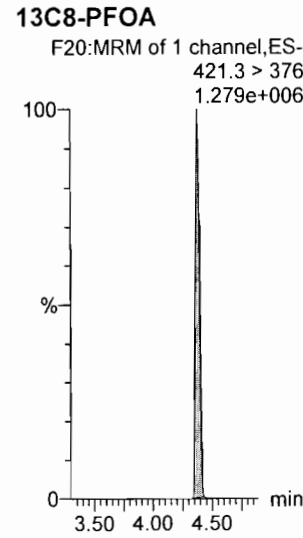
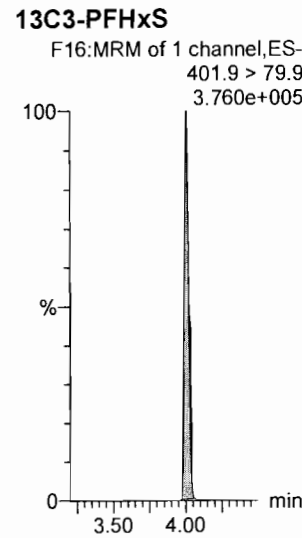
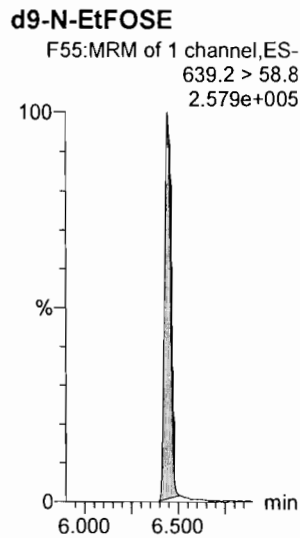
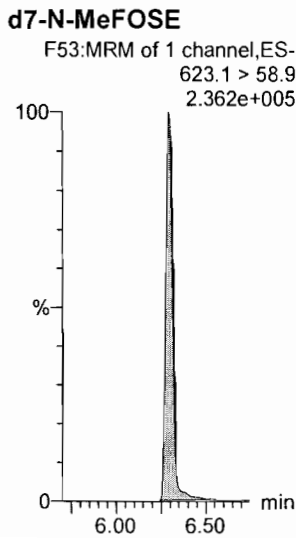
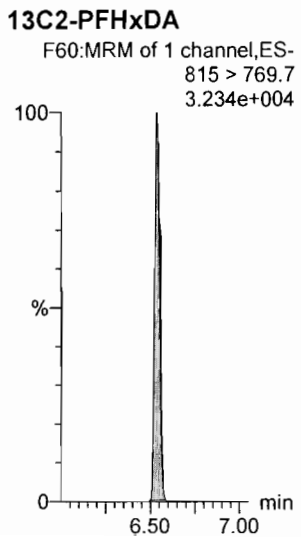
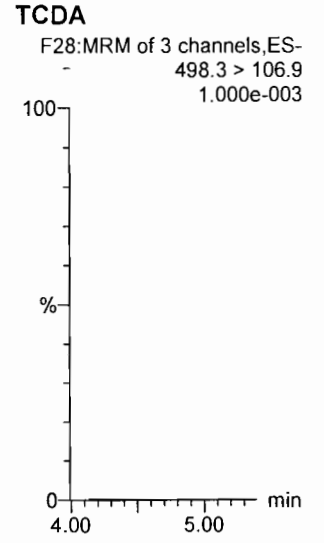
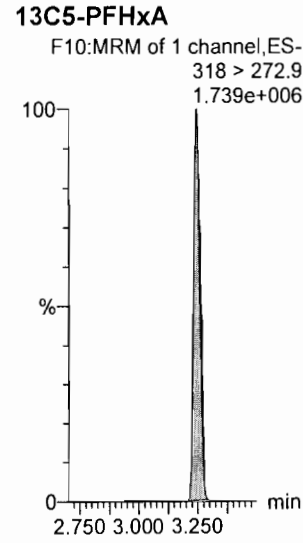
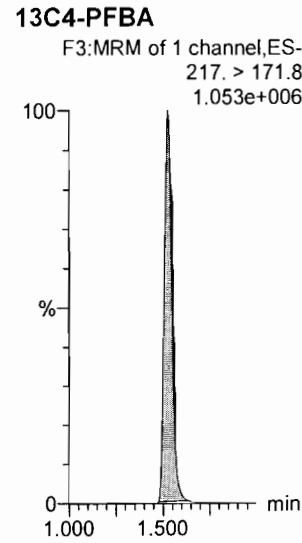
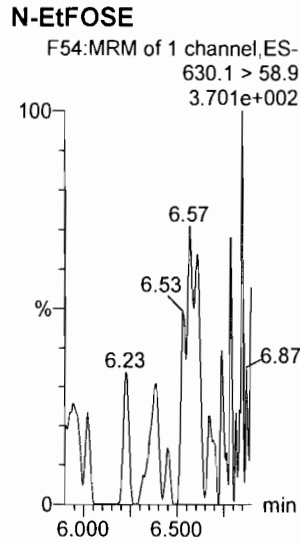
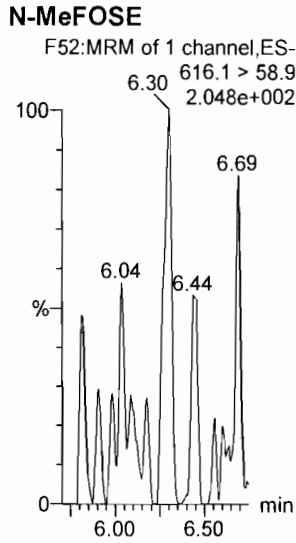
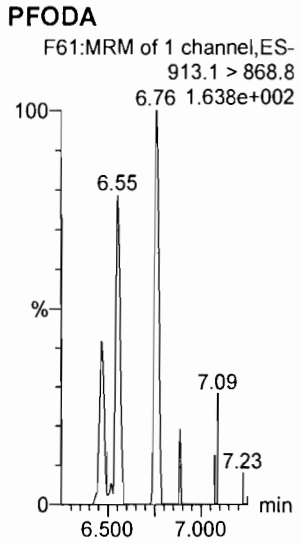
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Last Altered: Tuesday, January 16, 2018 10:33:59 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:34:30 Pacific Standard Time

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



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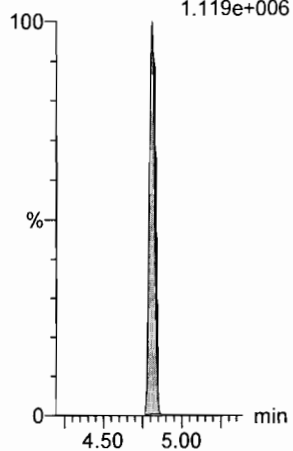
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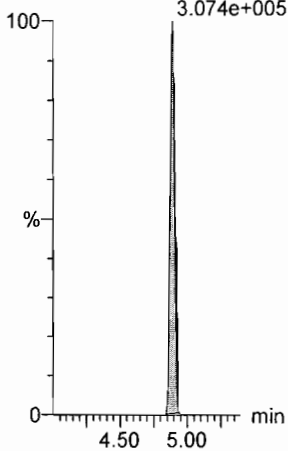
13C9-PFNA

F26:MRM of 1 channel,ES-
472.2 > 426.9
1.119e+006



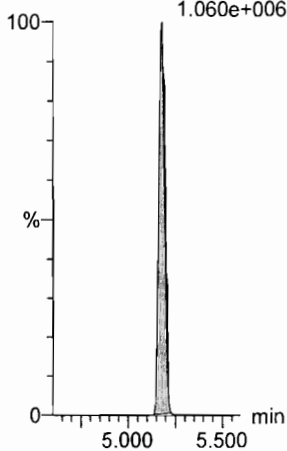
13C4-PFOS

F30:MRM of 1 channel,ES-
503 > 79.9
3.074e+005



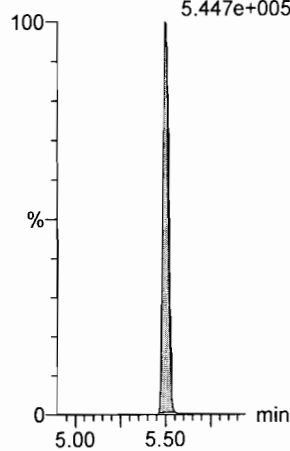
13C6-PFDA

F37:MRM of 1 channel,ES-
519.1 > 473.7
1.060e+006



13C7-PFUdA

F45:MRM of 1 channel,ES-
570.1 > 524.8
5.447e+005



Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

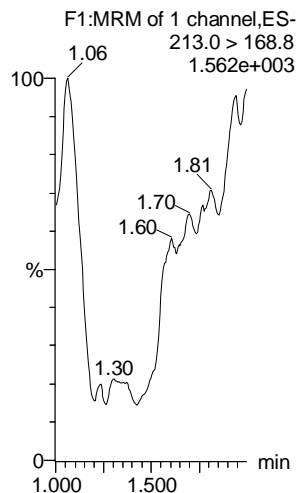
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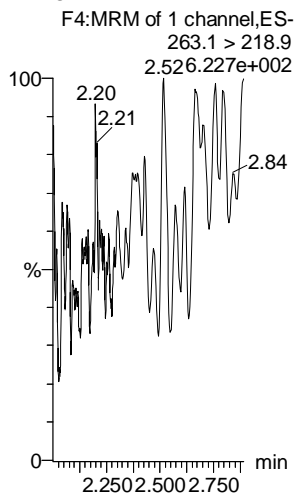
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Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

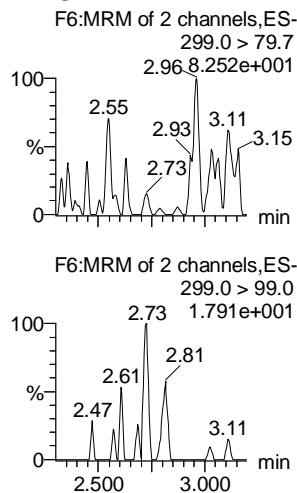
PFBA



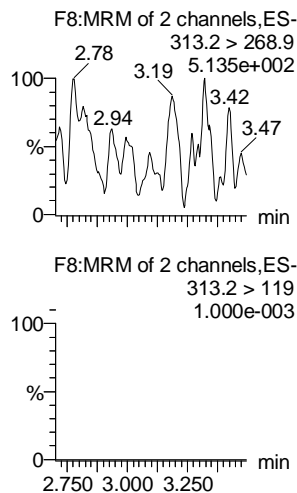
PFPeA



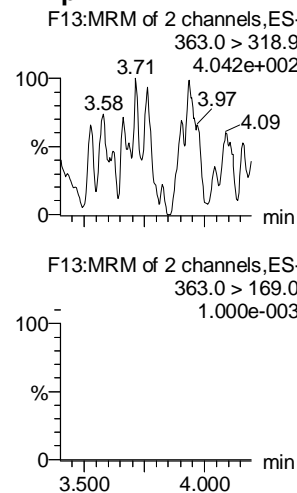
PFBS



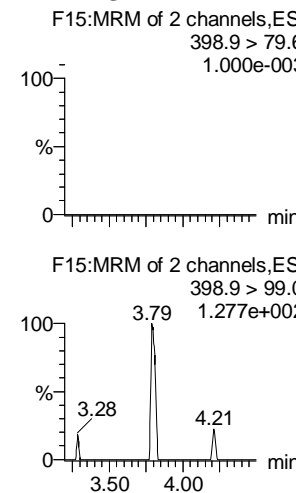
PFHxA



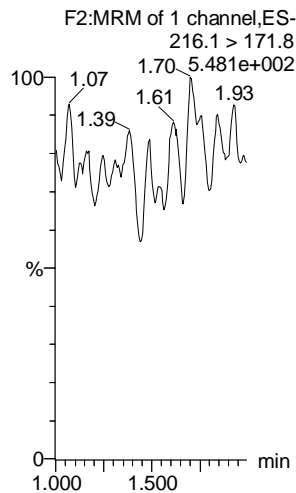
PFHpA



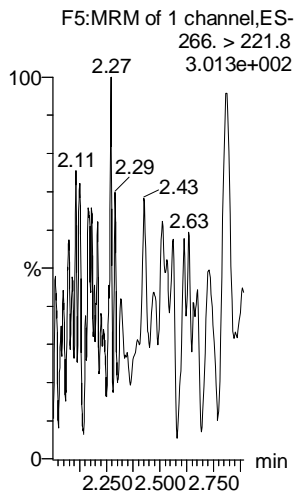
L-PFHxS



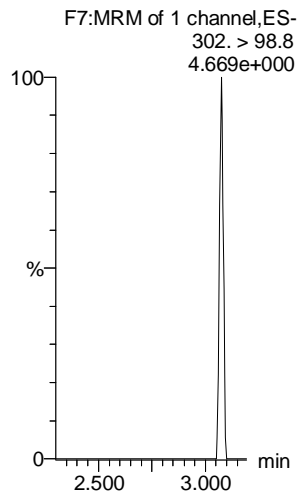
13C3-PFBA



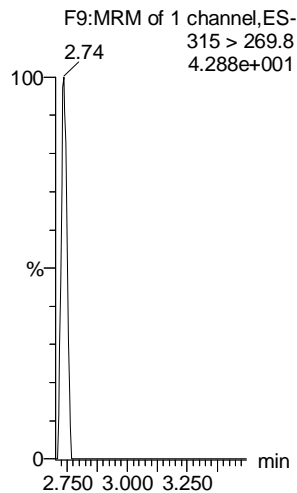
13C3-PFPeA



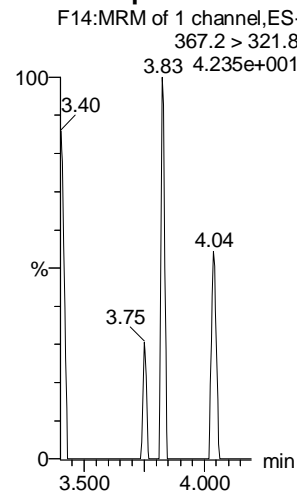
13C3-PFBS



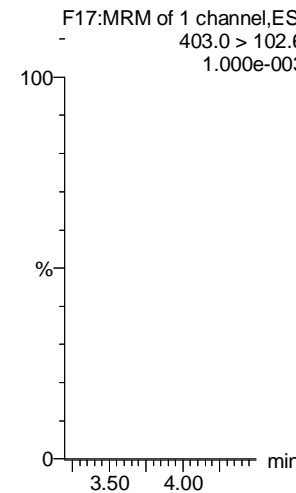
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



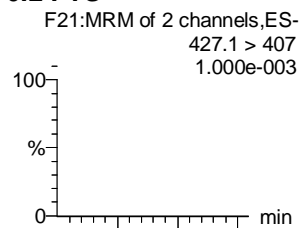
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Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

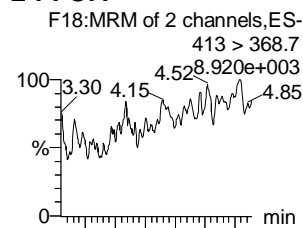
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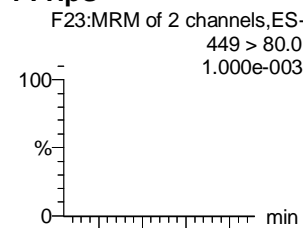
6:2 FTS



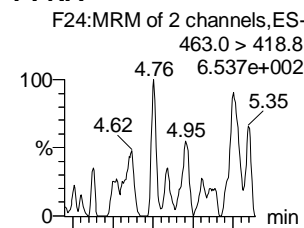
L-PFOA



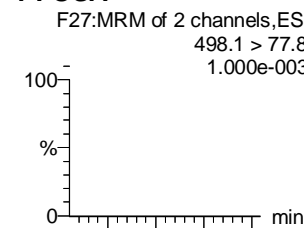
PFHpS



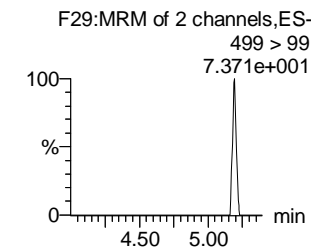
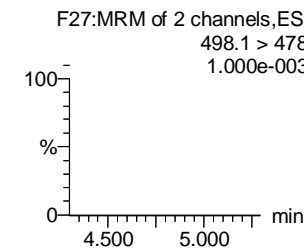
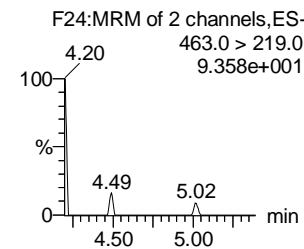
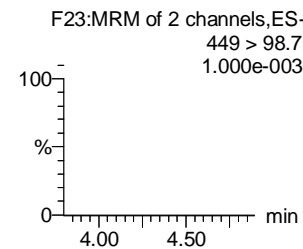
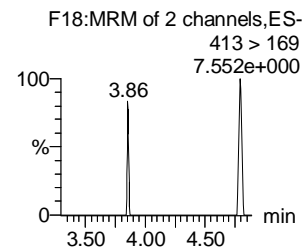
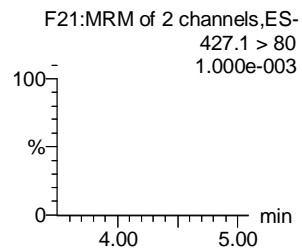
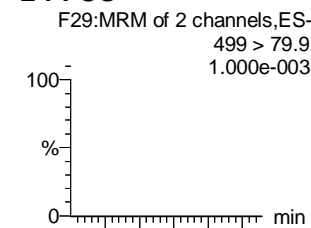
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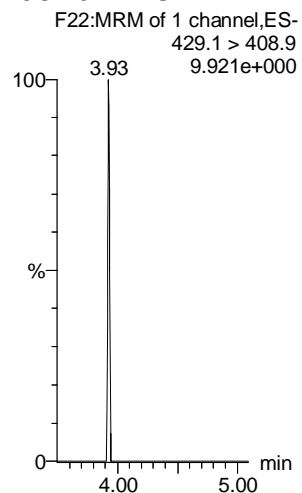
PFOSA



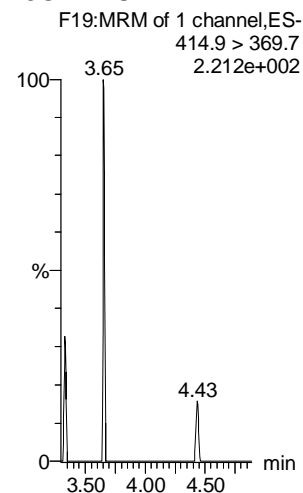
L-PFOS



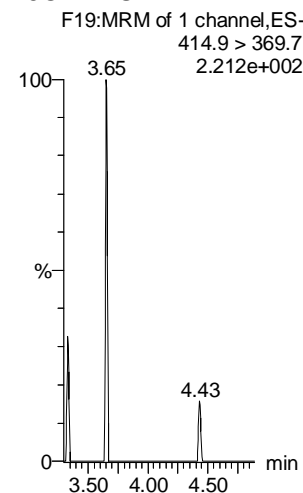
13C2-6:2 FTS



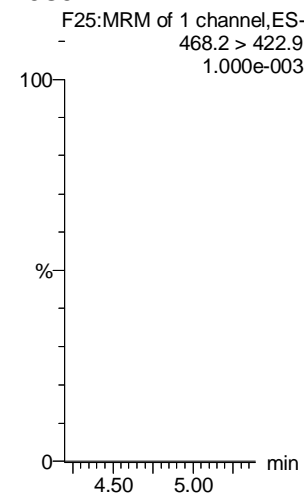
13C2-PFOA



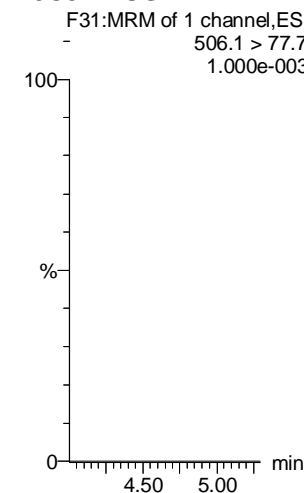
13C2-PFOA



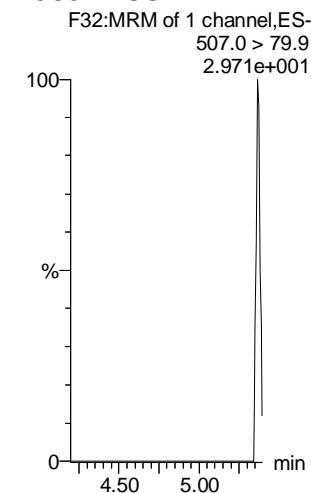
13C5-PFNA



13C8-PFOSA



13C8-PFOS



Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

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

PFDA

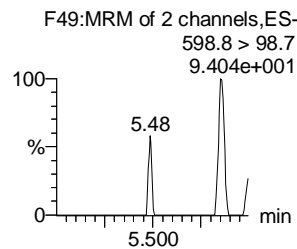
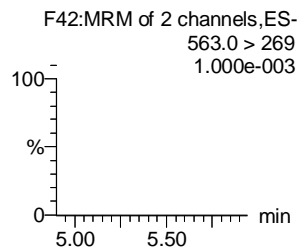
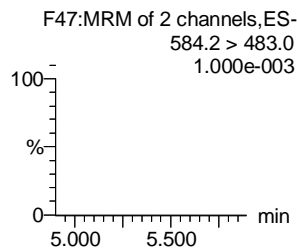
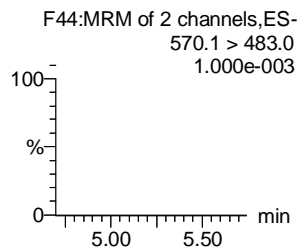
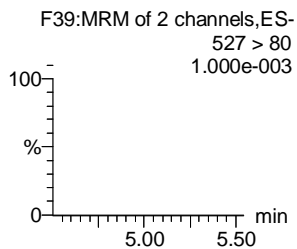
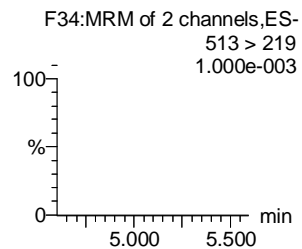
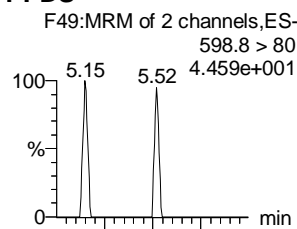
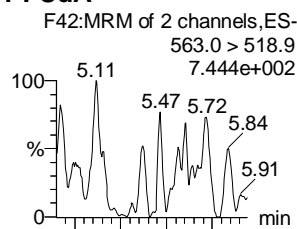
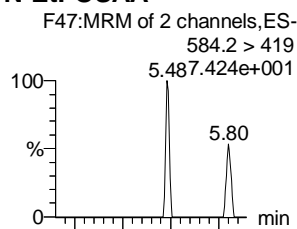
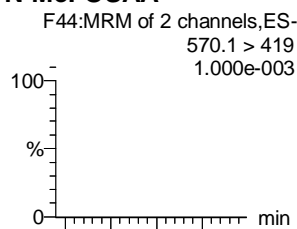
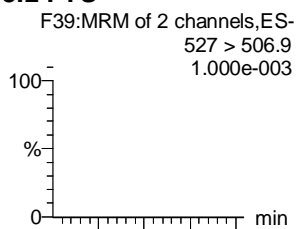
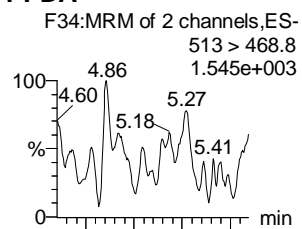
8:2 FTS

N-MeFOSAA

N-EtFOSAA

PFUdA

PFDS



13C2-PFDA

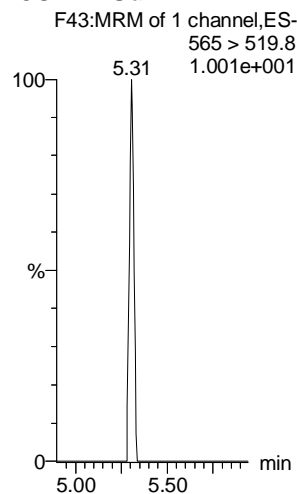
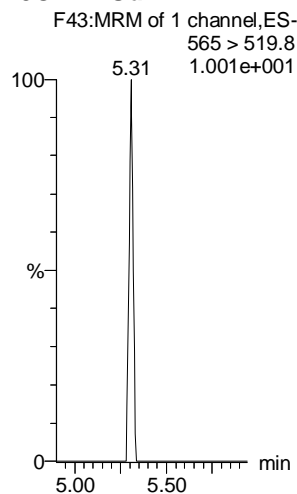
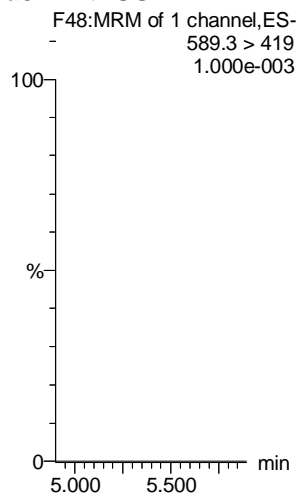
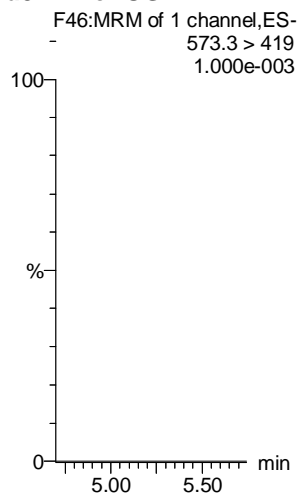
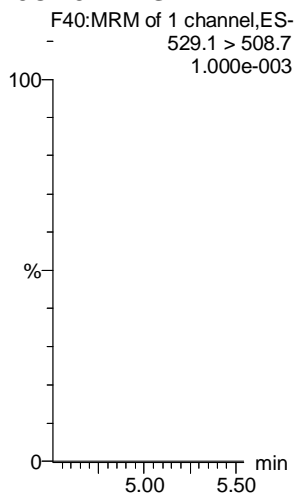
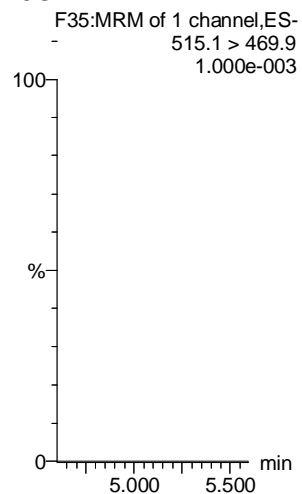
13C2-8:2 FTS

d3-N-MeFOSAA

d5-N-EtFOSAA

13C2-PFUdA

13C2-PFUdA



Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

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

PFDaA

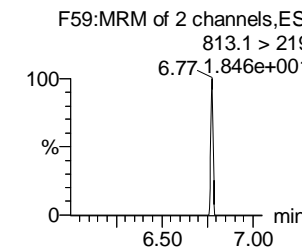
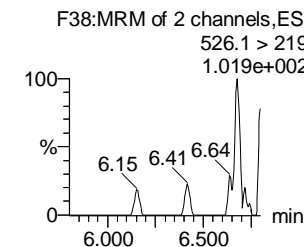
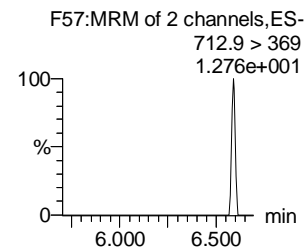
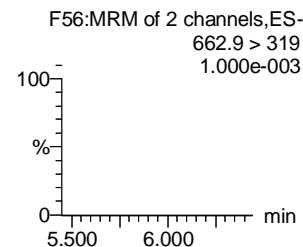
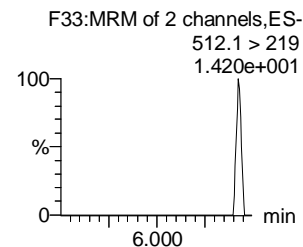
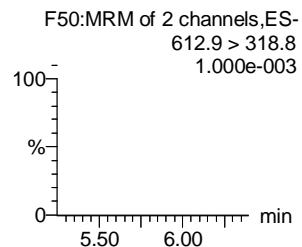
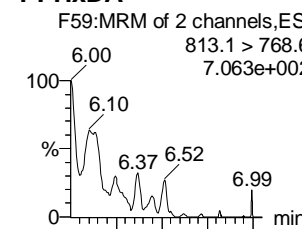
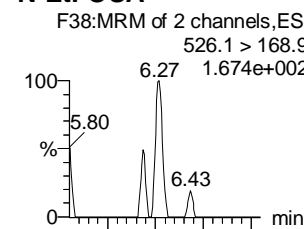
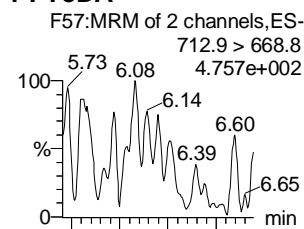
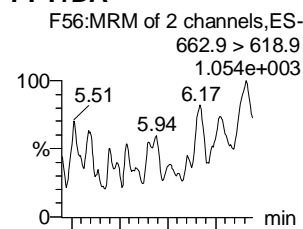
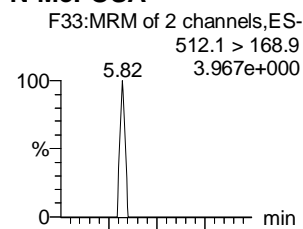
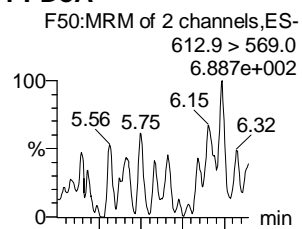
N-MeFOSA

PFTrDA

PFTeDA

N-EtFOSA

PFHxDA



13C2-PFDaA

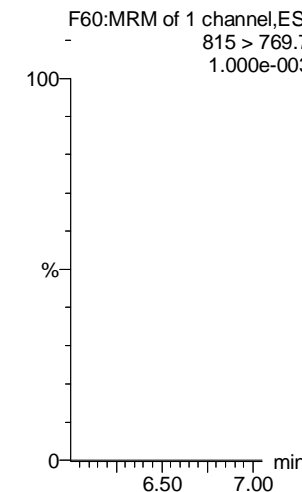
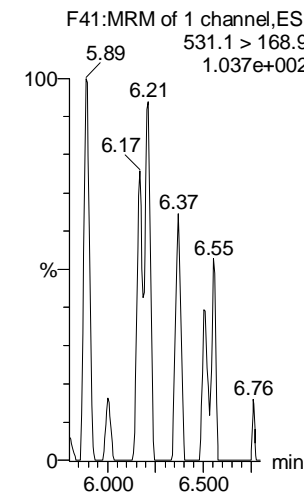
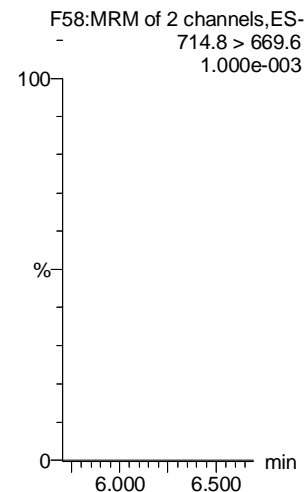
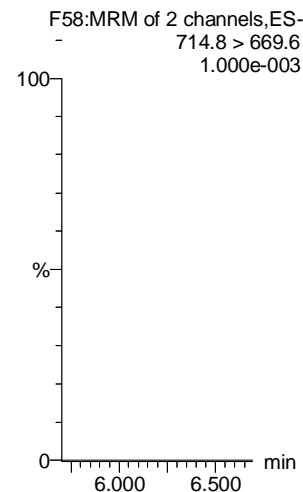
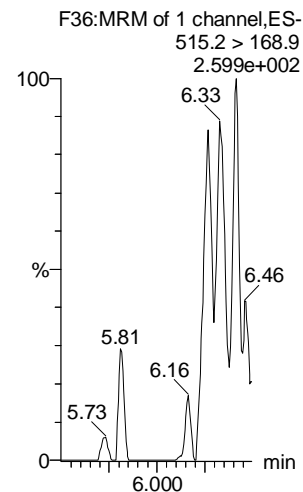
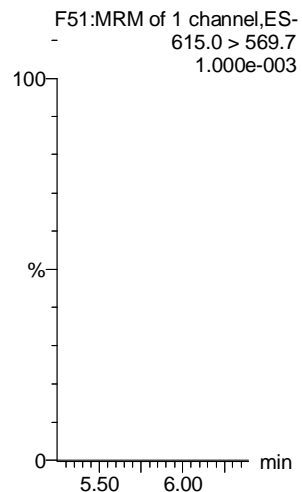
d3-N-MeFOSA

13C2-PFTeDA

13C2-PFTeDA

d5-N-ETFOSA

13C2-PFHxDA



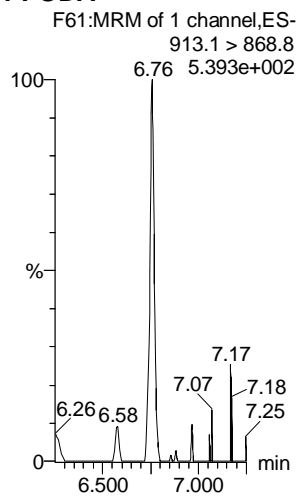
Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

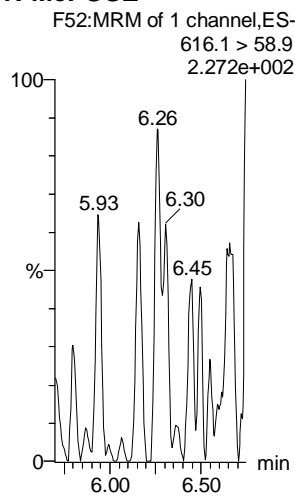
Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

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

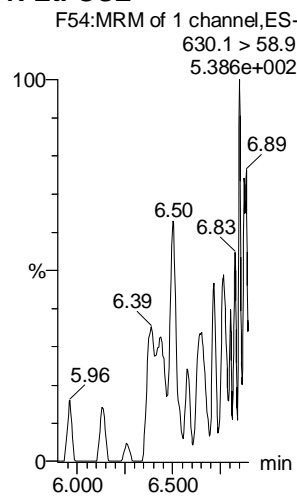
PFODA



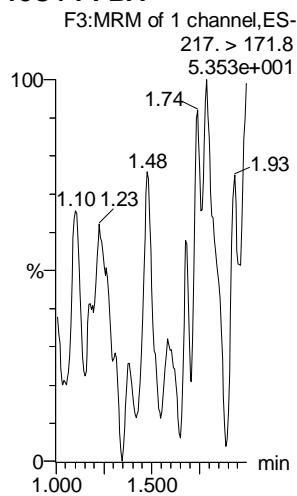
N-MeFOSE



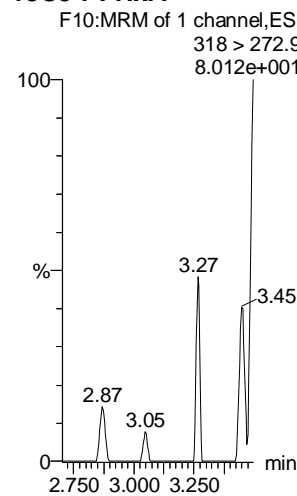
N-EtFOSE



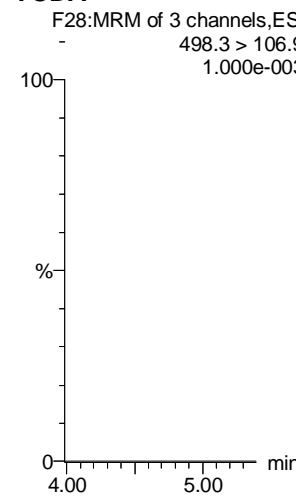
13C4-PFBA



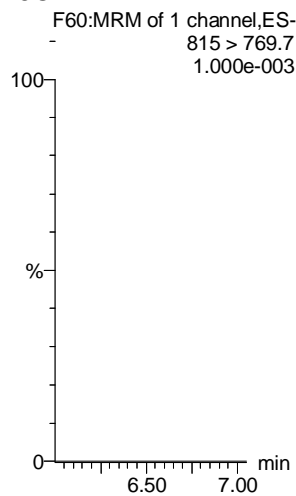
13C5-PFHxA



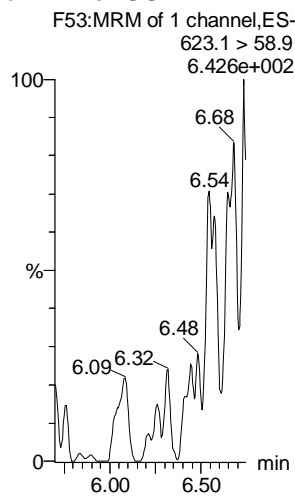
TCDA



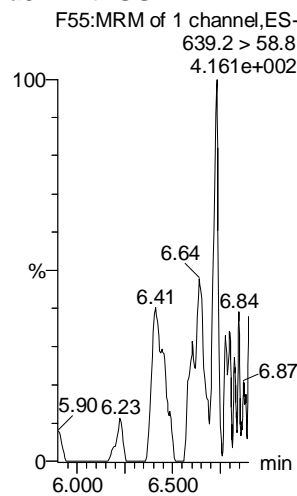
13C2-PFHxDA



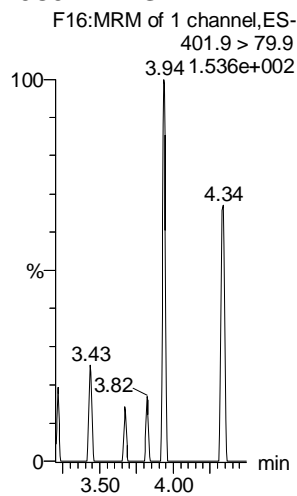
d7-N-MeFOSE



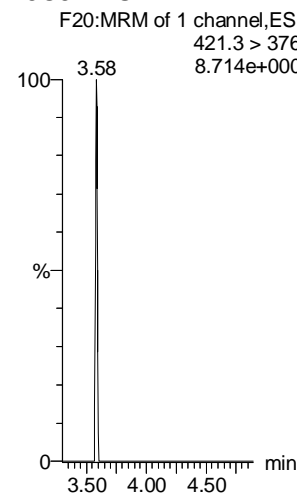
d9-N-EtFOSE



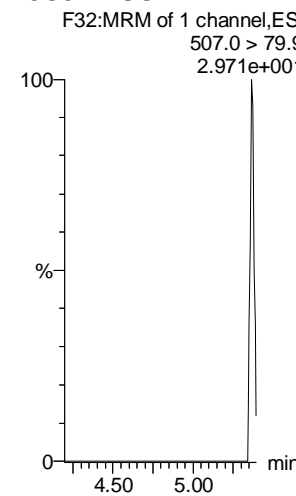
13C3-PFHxS



13C8-PFOA



13C8-PFOS



Dataset: U:\Q4.PRO\results\180115M2\180115M2-9.qld

Last Altered: Tuesday, January 16, 2018 13:50:18 Pacific Standard Time

Printed: Tuesday, January 16, 2018 13:51:15 Pacific Standard Time

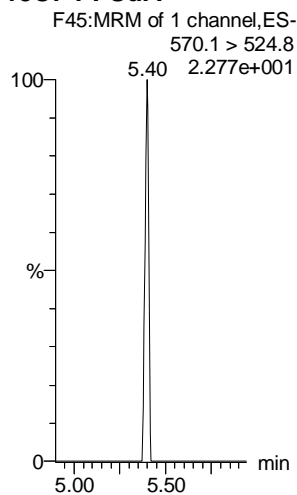
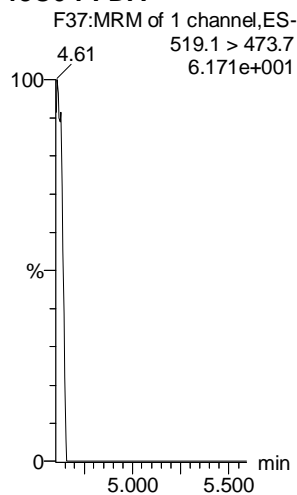
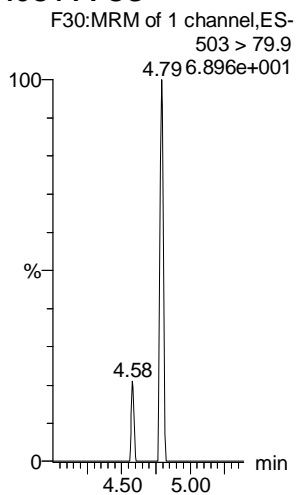
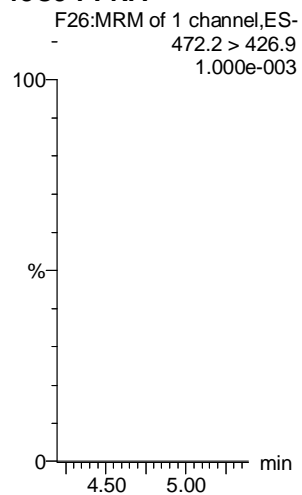
Name: 180115M2_9, Date: 16-Jan-2018, Time: 01:46:05, ID: IPA, Description: IPA

13C9-PFNA

13C4-PFOS

13C6-PFDA

13C7-PFUdA



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
 Printed: Wednesday, January 31, 2018 10:02:09 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 08:59:53
 Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Compound name: PFBA

Correlation coefficient: $r = 0.999349$, $r^2 = 0.998699$

Calibration curve: $1.16442 * x + -0.0439979$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

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

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1/31/18
✓ JA
01/31/2018

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	1.29	145.752	6876.616	0.265	0.3	6.1	NO	0.999	NO	MM
2	2 180130M2_3	Standard	0.500	1.28	242.794	6670.910	0.455	0.4	-14.3	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	1.29	489.506	6686.141	0.915	0.8	-17.6	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	1.29	1313.948	7453.242	2.204	1.9	-3.5	NO	0.999	NO	MM
5	5 180130M2_6	Standard	5.000	1.28	3497.962	7296.654	5.992	5.2	3.7	NO	0.999	NO	MM
6	6 180130M2_7	Standard	10.000	1.29	6875.646	7576.361	11.344	9.8	-2.2	NO	0.999	NO	MM
7	7 180130M2_8	Standard	50.000	1.29	40954.395	7914.732	64.681	55.6	11.2	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	1.29	85612.492	8748.384	122.326	105.1	5.1	NO	0.999	NO	bb
9	9 180130M2_10	Standard	250.000	1.29	180015.000	7969.932	282.335	242.5	-3.0	NO	0.999	NO	MM
10	10 180130M2_11	Standard	500.000	1.29	396476.313	8561.667	578.854	497.2	-0.6	NO	0.999	NO	MM

Compound name: PFPeA

Correlation coefficient: $r = 0.999864$, $r^2 = 0.999727$

Calibration curve: $1.00957 * x + 0.0379804$

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 180130M2_2	Standard	0.250	2.24	250.834	11593.497	0.270	0.2	-7.9	NO	1.000	NO	bb
2	2 180130M2_3	Standard	0.500	2.24	484.132	11553.364	0.524	0.5	-3.8	NO	1.000	NO	bb
3	3 180130M2_4	Standard	1.000	2.24	1019.479	12093.586	1.054	1.0	0.6	NO	1.000	NO	bb
4	4 180130M2_5	Standard	2.000	2.25	1989.568	11420.756	2.178	2.1	6.0	NO	1.000	NO	bb
5	5 180130M2_6	Standard	5.000	2.25	4738.599	11755.113	5.039	5.0	-0.9	NO	1.000	NO	bb
6	6 180130M2_7	Standard	10.000	2.25	10036.212	12249.239	10.242	10.1	1.1	NO	1.000	NO	bb
7	7 180130M2_8	Standard	50.000	2.25	48651.629	11794.470	51.562	51.0	2.1	NO	1.000	NO	bb
8	8 180130M2_9	Standard	100.000	2.24	103238.492	12359.346	104.413	103.4	3.4	NO	1.000	NO	bb
9	9 180130M2_10	Standard	250.000	2.25	227881.016	11197.215	254.395	251.9	0.8	NO	1.000	NO	bb

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:02:09 Pacific Standard Time

Compound name: PFPeA

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
10	10 180130M2_11	Standard	500.000	2.25	428860.938	10759.299	498.245	493.5	-1.3	NO	1.000	NO	bb

Compound name: PFBS

Coefficient of Determination: R² = 0.999648

Calibration curve: -0.000192588 * x² + 1.79867 * x + 0.0797843

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	2.52	67.222	1557.144	0.540	0.3	2.3	NO	1.000	NO	bb
2	2 180130M2_3	Standard	0.500	2.52	120.004	1504.408	0.997	0.5	2.0	NO	1.000	NO	bb
3	3 180130M2_4	Standard	1.000	2.52	194.592	1373.188	1.771	0.9	-5.9	NO	1.000	NO	bb
4	4 180130M2_5	Standard	2.000	2.53	408.037	1405.841	3.628	2.0	-1.3	NO	1.000	NO	bb
5	5 180130M2_6	Standard	5.000	2.53	1040.156	1473.915	8.821	4.9	-2.7	NO	1.000	NO	bb
6	6 180130M2_7	Standard	10.000	2.53	2277.262	1524.539	18.672	10.3	3.5	NO	1.000	NO	bb
7	7 180130M2_8	Standard	50.000	2.52	11245.538	1550.796	90.643	50.6	1.2	NO	1.000	NO	bb
8	8 180130M2_9	Standard	100.000	2.53	22382.773	1524.122	183.571	103.2	3.2	NO	1.000	NO	bb
9	9 180130M2_10	Standard	250.000	2.52	48666.789	1426.854	426.347	243.3	-2.7	NO	1.000	NO	bb
10	10 180130M2_11	Standard	500.000	2.53	89676.133	1309.955	855.718	502.8	0.6	NO	1.000	NO	bb

Compound name: 4:2 FTS

Coefficient of Determination: R² = 0.998629

Calibration curve: -0.00142534 * x² + 1.86892 * x + 0.00922081

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	2.92	56.679	1557.144	0.455	0.2	-4.6	NO	0.999	NO	MM
2	2 180130M2_3	Standard	0.500	2.92	96.315	1504.408	0.800	0.4	-15.3	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	2.93	230.535	1373.188	2.099	1.1	11.9	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	2.93	438.188	1405.841	3.896	2.1	4.2	NO	0.999	NO	bb
5	5 180130M2_6	Standard	5.000	2.93	1114.400	1473.915	9.451	5.1	1.4	NO	0.999	NO	bb
6	6 180130M2_7	Standard	10.000	2.93	2270.168	1524.539	18.614	10.0	0.3	NO	0.999	NO	bb
7	7 180130M2_8	Standard	50.000	2.93	11859.719	1550.796	95.594	53.3	6.6	NO	0.999	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: 4:2 FTS

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
8	180130M2_9	Standard	100.000	2.93	20043.510	1524.122	164.386	94.8	-5.2	NO	0.999	NO	bb
9	180130M2_10	Standard	250.000	2.93	43412.172	1426.854	380.314	251.9	0.7	NO	0.999	NO	bb
10	180130M2_11	Standard	500.000	2.93	82473.906	1309.955	786.992			NO	0.999	NO	bbXI

Compound name: PFHxA

Correlation coefficient: $r = 0.999536$, $r^2 = 0.999072$

Calibration curve: $1.59305 * x + 0.154027$

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	180130M2_2	Standard	0.250	3.02	331.469	3444.513	0.481	0.2	-17.9	NO	0.999	NO	bb
2	180130M2_3	Standard	0.500	3.02	650.080	3804.890	0.854	0.4	-12.1	NO	0.999	NO	bb
3	180130M2_4	Standard	1.000	3.02	1395.178	3925.958	1.777	1.0	1.9	NO	0.999	NO	bb
4	180130M2_5	Standard	2.000	3.02	2678.964	3424.845	3.911	2.4	17.9	NO	0.999	NO	bb
5	180130M2_6	Standard	5.000	3.02	5585.022	3509.592	7.957	4.9	-2.0	NO	0.999	NO	bb
6	180130M2_7	Standard	10.000	3.02	12463.603	3506.838	17.770	11.1	10.6	NO	0.999	NO	bb
7	180130M2_8	Standard	50.000	3.02	61713.707	3857.463	79.993	50.1	0.2	NO	0.999	NO	bb
8	180130M2_9	Standard	100.000	3.02	134421.234	4084.247	164.561	103.2	3.2	NO	0.999	NO	bb
9	180130M2_10	Standard	250.000	3.02	282436.156	3610.123	391.172	245.5	-1.8	NO	0.999	NO	bb
10	180130M2_11	Standard	500.000	3.02	516166.313	3550.825	726.826	456.2	-8.8	NO	0.999	NO	bbX

Compound name: PFPeS

Correlation coefficient: $r = 0.999248$, $r^2 = 0.998497$

Calibration curve: $1.92186 * x + 0.239017$

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	180130M2_2	Standard	0.250	3.22	76.302	1557.144	0.613	0.2	-22.3	NO	0.998	NO	bb
2	180130M2_3	Standard	0.500	3.22	121.595	1504.408	1.010	0.4	-19.7	NO	0.998	NO	bb
3	180130M2_4	Standard	1.000	3.22	269.333	1373.188	2.452	1.2	15.1	NO	0.998	NO	bb
4	180130M2_5	Standard	2.000	3.22	490.172	1405.841	4.358	2.1	7.2	NO	0.998	NO	bb
5	180130M2_6	Standard	5.000	3.22	1168.320	1473.915	9.908	5.0	0.6	NO	0.998	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: PFPeS

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
6	6 180130M2_7	Standard	10.000	3.23	2708.861	1524.539	22.210	11.4	14.3	NO	0.998	NO	bb
7	7 180130M2_8	Standard	50.000	3.22	12544.337	1550.796	101.112	52.5	5.0	NO	0.998	NO	bb
8	8 180130M2_9	Standard	100.000	3.23	24011.297	1524.122	196.927	102.3	2.3	NO	0.998	NO	bb
9	9 180130M2_10	Standard	250.000	3.23	53459.953	1426.854	468.338	243.6	-2.6	NO	0.998	NO	bb
10	10 180130M2_11	Standard	500.000	3.23	92783.516	1309.955	885.369	460.6	-7.9	NO	0.998	NO	bbX

Compound name: PFHpA

Correlation coefficient: $r = 0.996911$, $r^2 = 0.993832$

Calibration curve: $1.17843 * x + 0.12989$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	3.64	276.059	8881.518	0.389	0.2	-12.2	NO	0.994	NO	bb
2	2 180130M2_3	Standard	0.500	3.63	578.274	9917.206	0.729	0.5	1.7	NO	0.994	NO	bb
3	3 180130M2_4	Standard	1.000	3.64	911.291	11092.101	1.027	0.8	-23.9	NO	0.994	NO	bb
4	4 180130M2_5	Standard	2.000	3.64	1904.880	8887.327	2.679	2.2	8.2	NO	0.994	NO	bb
5	5 180130M2_6	Standard	5.000	3.64	5238.723	10858.797	6.031	5.0	0.1	NO	0.994	NO	bb
6	6 180130M2_7	Standard	10.000	3.64	10266.113	10289.855	12.471	10.5	4.7	NO	0.994	NO	bb
7	7 180130M2_8	Standard	50.000	3.64	48742.094	9713.688	62.723	53.1	6.2	NO	0.994	NO	bb
8	8 180130M2_9	Standard	100.000	3.64	117605.617	10630.633	138.286	117.2	17.2	NO	0.994	NO	bb
9	9 180130M2_10	Standard	250.000	3.64	222412.031	9057.838	306.933	260.3	4.1	NO	0.994	NO	bb
10	10 180130M2_11	Standard	500.000	3.64	392791.625	8883.200	552.717	468.9	-6.2	NO	0.994	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: L-PFHxS

Correlation coefficient: $r = 0.998763$, $r^2 = 0.997528$

Calibration curve: $1.85703 * x + 0.0178379$

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 180130M2_2	Standard	0.250	3.79	38.095	1053.045	0.452	0.2	-6.4	NO	0.998	NO	MM
2	2 180130M2_3	Standard	0.500	3.79	56.207	903.095	0.778	0.4	-18.1	NO	0.998	NO	MM
3	3 180130M2_4	Standard	1.000	3.80	149.560	997.103	1.875	1.0	0.0	NO	0.998	NO	MM
4	4 180130M2_5	Standard	2.000	3.80	342.842	989.370	4.332	2.3	16.1	NO	0.998	NO	MM
5	5 180130M2_6	Standard	5.000	3.80	761.813	1029.990	9.245	5.0	-0.6	NO	0.998	NO	MM
6	6 180130M2_7	Standard	10.000	3.80	1705.721	963.713	22.124	11.9	19.0	NO	0.998	NO	MM
7	7 180130M2_8	Standard	50.000	3.79	8106.228	1168.792	86.695	46.7	-6.7	NO	0.998	NO	MM
8	8 180130M2_9	Standard	100.000	3.80	16188.136	1095.959	184.634	99.4	-0.6	NO	0.998	NO	MM
9	9 180130M2_10	Standard	250.000	3.79	35013.383	1005.605	435.228	234.4	-6.3	NO	0.998	NO	MM
10	10 180130M2_11	Standard	500.000	3.80	69247.547	900.761	960.959	517.5	3.5	NO	0.998	NO	MM

Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.998989$

Calibration curve: $-3.58558e-005 * x^2 + 0.231183 * x + 0.00652079$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	4.11	67.447	13083.550	0.064	0.3	0.2	NO	0.999	NO	bb
2	2 180130M2_3	Standard	0.500	4.11	150.687	12909.832	0.146	0.6	20.6	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	4.11	204.662	13755.024	0.186	0.8	-22.4	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	4.11	595.523	12662.505	0.588	2.5	25.8	NO	0.999	NO	bb
5	5 180130M2_6	Standard	5.000	4.11	1126.442	13917.645	1.012	4.4	-13.0	NO	0.999	NO	bb
6	6 180130M2_7	Standard	10.000	4.11	2534.244	13938.184	2.273	9.8	-1.8	NO	0.999	NO	bb
7	7 180130M2_8	Standard	50.000	4.11	13119.515	14519.339	11.295	49.2	-1.6	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	4.11	28912.900	15012.127	24.075	105.8	5.8	NO	0.999	NO	bb
9	9 180130M2_10	Standard	250.000	4.11	56401.480	13058.033	53.991	242.6	-2.9	NO	0.999	NO	bb
10	10 180130M2_11	Standard	500.000	4.11	104634.672	12203.416	107.178	502.8	0.6	NO	0.999	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: L-PFOA

Coefficient of Determination: R² = 0.999566

Calibration curve: -0.000857391 * x² + 1.05615 * x + 0.0717082

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 180130M2_2	Standard	0.250	4.16	283.962	13083.550	0.271	0.2	-24.4	NO	1.000	NO	bb
2	2 180130M2_3	Standard	0.500	4.16	635.267	12909.832	0.615	0.5	2.9	NO	1.000	NO	bb
3	3 180130M2_4	Standard	1.000	4.17	1321.400	13755.024	1.201	1.1	7.0	NO	1.000	NO	bb
4	4 180130M2_5	Standard	2.000	4.17	2500.635	12662.505	2.469	2.3	13.7	NO	1.000	NO	bb
5	5 180130M2_6	Standard	5.000	4.16	5673.434	13917.645	5.096	4.8	-4.5	NO	1.000	NO	bb
6	6 180130M2_7	Standard	10.000	4.16	12457.271	13938.184	11.172	10.6	6.0	NO	1.000	NO	bb
7	7 180130M2_8	Standard	50.000	4.16	59362.699	14519.339	51.107	50.4	0.8	NO	1.000	NO	bb
8	8 180130M2_9	Standard	100.000	4.17	114676.961	15012.127	95.487	98.2	-1.8	NO	1.000	NO	bb
9	9 180130M2_10	Standard	250.000	4.16	220499.109	13058.033	211.076	250.9	0.4	NO	1.000	NO	bb
10	10 180130M2_11	Standard	500.000	4.16	484021.500	12203.416	495.785			NO	1.000	NO	bbXI

Compound name: PFHpS

Coefficient of Determination: R² = 0.998172

Calibration curve: -0.000111162 * x² + 1.01876 * x + -0.0937669

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 180130M2_2	Standard	0.250	4.27	55.597	3303.503	0.210	0.3	19.4	NO	0.998	NO	MMX
2	2 180130M2_3	Standard	0.500	4.27	161.011	2799.563	0.719	0.8	59.6	YES	0.998	NO	bbX
3	3 180130M2_4	Standard	1.000	4.28	197.510	3313.572	0.745	0.8	-17.7	NO	0.998	NO	bb
4	4 180130M2_5	Standard	2.000	4.28	518.409	3118.645	2.078	2.1	6.6	NO	0.998	NO	bb
5	5 180130M2_6	Standard	5.000	4.28	1173.845	3222.721	4.553	4.6	-8.7	NO	0.998	NO	bb
6	6 180130M2_7	Standard	10.000	4.28	3051.811	3355.895	11.367	11.3	12.6	NO	0.998	NO	bb
7	7 180130M2_8	Standard	50.000	4.28	13264.415	3007.765	55.126	54.5	9.1	NO	0.998	NO	bb
8	8 180130M2_9	Standard	100.000	4.28	25959.848	3145.492	103.163	102.5	2.5	NO	0.998	NO	bb
9	9 180130M2_10	Standard	250.000	4.28	54278.594	2900.628	233.909	235.8	-5.7	NO	0.998	NO	bb
10	10 180130M2_11	Standard	500.000	4.28	105607.602	2708.485	487.392	506.5	1.3	NO	0.998	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: PFNA

Coefficient of Determination: $R^2 = 0.998285$

Calibration curve: $3.72704e-005 * x^2 + 1.22337 * x + 0.164766$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	4.60	391.378	11924.658	0.410	0.2	-19.7	NO	0.998	NO	bb
2	2 180130M2_3	Standard	0.500	4.60	658.152	12590.917	0.653	0.4	-20.1	NO	0.998	NO	bb
3	3 180130M2_4	Standard	1.000	4.61	1541.535	13916.688	1.385	1.0	-0.3	NO	0.998	NO	bb
4	4 180130M2_5	Standard	2.000	4.61	2803.837	11553.559	3.034	2.3	17.2	NO	0.998	NO	bb
5	5 180130M2_6	Standard	5.000	4.61	6190.618	11286.473	6.856	5.5	9.4	NO	0.998	NO	bb
6	6 180130M2_7	Standard	10.000	4.61	14313.167	12654.078	14.139	11.4	14.2	NO	0.998	NO	bb
7	7 180130M2_8	Standard	50.000	4.60	62601.695	13283.173	58.911	47.9	-4.1	NO	0.998	NO	bb
8	8 180130M2_9	Standard	100.000	4.61	147308.750	13966.063	131.845	107.3	7.3	NO	0.998	NO	bb
9	9 180130M2_10	Standard	250.000	4.60	279544.344	11905.473	293.504	238.1	-4.8	NO	0.998	NO	bb
10	10 180130M2_11	Standard	500.000	4.61	470219.375	9374.423	626.998	504.6	0.9	NO	0.998	NO	bb

Compound name: PFOSA

Correlation coefficient: $r = 0.997452$, $r^2 = 0.994909$

Calibration curve: $1.09599 * x + -0.0345352$

Response type: Internal Std (Ref 43), 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 180130M2_2	Standard	0.250	4.66	87.580	3565.097	0.307	0.3	24.7	NO	0.995	NO	bb
2	2 180130M2_3	Standard	0.500	4.67	113.860	3407.638	0.418	0.4	-17.5	NO	0.995	NO	bb
3	3 180130M2_4	Standard	1.000	4.67	279.787	3539.375	0.988	0.9	-6.7	NO	0.995	NO	bb
4	4 180130M2_5	Standard	2.000	4.67	491.604	3497.803	1.757	1.6	-18.3	NO	0.995	NO	bb
5	5 180130M2_6	Standard	5.000	4.67	1455.735	3378.658	5.386	4.9	-1.1	NO	0.995	NO	bb
6	6 180130M2_7	Standard	10.000	4.67	3636.421	3567.036	12.743	11.7	16.6	NO	0.995	NO	bb
7	7 180130M2_8	Standard	50.000	4.66	15118.188	3558.686	53.103	48.5	-3.0	NO	0.995	NO	bb
8	8 180130M2_9	Standard	100.000	4.67	31501.756	3598.307	109.433	99.9	-0.1	NO	0.995	NO	bb
9	9 180130M2_10	Standard	250.000	4.67	66896.695	2758.122	303.180	276.7	10.7	NO	0.995	NO	bb
10	10 180130M2_11	Standard	500.000	4.67	122858.055	2957.394	519.283	473.8	-5.2	NO	0.995	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: L-PFOS

Coefficient of Determination: R² = 0.999249

Calibration curve: $-8.58479e-006 * x^2 + 1.08539 * x + -0.177739$

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 180130M2_2	Standard	0.250	4.68	35.012	3303.503	0.132	0.3	14.3	NO	0.999	NO	MM
2	2 180130M2_3	Standard	0.500	4.69	85.749	2799.563	0.383	0.5	3.3	NO	0.999	NO	MM
3	3 180130M2_4	Standard	1.000	4.69	225.209	3313.572	0.850	0.9	-5.4	NO	0.999	NO	MM
4	4 180130M2_5	Standard	2.000	4.69	427.639	3118.645	1.714	1.7	-12.9	NO	0.999	NO	MM
5	5 180130M2_6	Standard	5.000	4.69	1205.209	3222.721	4.675	4.5	-10.6	NO	0.999	NO	MM
6	6 180130M2_7	Standard	10.000	4.69	3022.715	3355.895	11.259	10.5	5.4	NO	0.999	NO	MM
7	7 180130M2_8	Standard	50.000	4.69	13878.184	3007.765	57.676	53.3	6.7	NO	0.999	NO	MM
8	8 180130M2_9	Standard	100.000	4.69	27726.719	3145.492	110.184	101.8	1.8	NO	0.999	NO	MM
9	9 180130M2_10	Standard	250.000	4.69	60713.430	2900.628	261.639	241.7	-3.3	NO	0.999	NO	MM
10	10 180130M2_11	Standard	500.000	4.69	117899.492	2708.485	544.121	503.5	0.7	NO	0.999	NO	MM

Compound name: PFDA

Coefficient of Determination: R² = 0.998012

Calibration curve: $-0.000420231 * x^2 + 1.29941 * x + 0.0888209$

Response type: Internal Std (Ref 45), 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 180130M2_2	Standard	0.250	4.98	282.483	10373.150	0.340	0.2	-22.6	NO	0.998	NO	bb
2	2 180130M2_3	Standard	0.500	4.98	679.340	11181.896	0.759	0.5	3.2	NO	0.998	NO	bb
3	3 180130M2_4	Standard	1.000	4.98	1513.492	11103.892	1.704	1.2	24.3	NO	0.998	NO	bb
4	4 180130M2_5	Standard	2.000	4.98	2667.157	11098.916	3.004	2.2	12.2	NO	0.998	NO	bb
5	5 180130M2_6	Standard	5.000	4.98	6734.641	13841.649	6.082	4.6	-7.6	NO	0.998	NO	bb
6	6 180130M2_7	Standard	10.000	4.98	12574.135	13395.807	11.733	9.0	-10.1	NO	0.998	NO	bb
7	7 180130M2_8	Standard	50.000	4.98	64611.910	13454.328	60.029	46.8	-6.3	NO	0.998	NO	bb
8	8 180130M2_9	Standard	100.000	4.98	139965.906	12731.192	137.424	109.6	9.6	NO	0.998	NO	bb
9	9 180130M2_10	Standard	250.000	4.98	262682.469	11335.476	289.669	241.8	-3.3	NO	0.998	NO	bb
10	10 180130M2_11	Standard	500.000	4.98	561688.938	12827.448	547.351	503.0	0.6	NO	0.998	NO	bb

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Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.994120$

Calibration curve: $-0.00010241 * x^2 + 0.250291 * x + -0.0155588$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	4.94	52.953	13083.550	0.051	0.3	5.7	NO	0.994	NO	MM
2	2 180130M2_3	Standard	0.500	4.94	106.263	12909.832	0.103	0.5	-5.3	NO	0.994	NO	bb
3	3 180130M2_4	Standard	1.000	4.95	228.735	13755.024	0.208	0.9	-10.7	NO	0.994	NO	bb
4	4 180130M2_5	Standard	2.000	4.96	618.064	12662.505	0.610	2.5	25.1	NO	0.994	NO	bb
5	5 180130M2_6	Standard	5.000	4.95	1014.381	13917.645	0.911	3.7	-25.8	NO	0.994	NO	bb
6	6 180130M2_7	Standard	10.000	4.95	2724.675	13938.184	2.444	9.9	-1.4	NO	0.994	NO	bb
7	7 180130M2_8	Standard	50.000	4.95	11034.815	14519.339	9.500	38.6	-22.7	NO	0.994	NO	bb
8	8 180130M2_9	Standard	100.000	4.95	30446.711	15012.127	25.352	105.9	5.9	NO	0.994	NO	bb
9	9 180130M2_10	Standard	250.000	4.95	62080.234	13058.033	59.427	266.6	6.6	NO	0.994	NO	bb
10	10 180130M2_11	Standard	500.000	4.95	95574.258	12203.416	97.897	489.1	-2.2	NO	0.994	NO	bb

Compound name: PFNS

Coefficient of Determination: $R^2 = 0.998923$

Calibration curve: $-0.000173469 * x^2 + 0.881199 * x + 0.0764053$

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 180130M2_2	Standard	0.250	5.04	76.733	3303.503	0.290	0.2	-2.9	NO	0.999	NO	MM
2	2 180130M2_3	Standard	0.500	5.04	110.619	2799.563	0.494	0.5	-5.2	NO	0.999	NO	MM
3	3 180130M2_4	Standard	1.000	5.04	245.261	3313.572	0.925	1.0	-3.7	NO	0.999	NO	MM
4	4 180130M2_5	Standard	2.000	5.05	456.775	3118.645	1.831	2.0	-0.4	NO	0.999	NO	MM
5	5 180130M2_6	Standard	5.000	5.05	1180.659	3222.721	4.579	5.1	2.3	NO	0.999	NO	MM
6	6 180130M2_7	Standard	10.000	5.05	2547.639	3355.895	9.489	10.7	7.0	NO	0.999	NO	MM
7	7 180130M2_8	Standard	50.000	5.05	10629.551	3007.765	44.175	50.5	1.1	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	5.05	22925.211	3145.492	91.103	105.5	5.5	NO	0.999	NO	MM
9	9 180130M2_10	Standard	250.000	5.05	46405.703	2900.628	199.981	238.0	-4.8	NO	0.999	NO	MM
10	10 180130M2_11	Standard	500.000	5.05	86909.063	2708.485	401.096	505.4	1.1	NO	0.999	NO	MM

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.998886$

Calibration curve: $-0.000656005 * x^2 + 1.57527 * x + -0.0430991$

Response type: Internal Std (Ref 47), 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 180130M2_2	Standard	0.250	5.14	208.223	5651.358	0.461	0.3	27.9	NO	0.999	NO	bb
2	2 180130M2_3	Standard	0.500	5.13	281.203	5094.401	0.690	0.5	-6.9	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	5.14	612.965	5659.655	1.354	0.9	-11.3	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	5.14	1255.902	5256.864	2.986	1.9	-3.8	NO	0.999	NO	bb
5	5 180130M2_6	Standard	5.000	5.14	3001.708	5623.414	6.672	4.3	-14.6	NO	0.999	NO	bb
6	6 180130M2_7	Standard	10.000	5.14	7005.630	5524.531	15.851	10.1	1.3	NO	0.999	NO	bb
7	7 180130M2_8	Standard	50.000	5.14	33344.656	5612.226	74.268	48.1	-3.7	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	5.14	71311.117	6113.146	145.815	96.5	-3.5	NO	0.999	NO	bb
9	9 180130M2_10	Standard	250.000	5.14	150630.297	5111.627	368.352	262.6	5.0	NO	0.999	NO	bb
10	10 180130M2_11	Standard	500.000	5.14	254017.859	5145.271	617.115	493.0	-1.4	NO	0.999	NO	bb

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.998912$

Calibration curve: $5.26453e-005 * x^2 + 1.09334 * x + 0.022349$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	5.29	133.930	6094.616	0.275	0.2	-7.7	NO	0.999	NO	bb
2	2 180130M2_3	Standard	0.500	5.29	320.345	6234.195	0.642	0.6	13.4	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	5.30	429.622	6814.311	0.788	0.7	-30.0	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	5.29	1072.044	4971.428	2.696	2.4	22.2	NO	0.999	NO	MM
5	5 180130M2_6	Standard	5.000	5.30	2632.858	5897.333	5.581	5.1	1.7	NO	0.999	NO	bb
6	6 180130M2_7	Standard	10.000	5.29	5970.152	6240.996	11.958	10.9	9.1	NO	0.999	NO	bb
7	7 180130M2_8	Standard	50.000	5.29	29335.684	6520.371	56.239	51.3	2.6	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	5.29	53490.738	6313.640	105.903	96.4	-3.6	NO	0.999	NO	bb
9	9 180130M2_10	Standard	250.000	5.29	112534.500	5061.634	277.911	251.1	0.5	NO	0.999	NO	bb
10	10 180130M2_11	Standard	500.000	5.29	189063.281	4643.514	508.945	455.5	-8.9	NO	0.999	NO	bbX

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Compound name: PFUDa

Coefficient of Determination: R² = 0.999294

Calibration curve: -0.000458526 * x² + 1.17709 * x + 0.0278308

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	5.30	513.076	16376.577	0.392	0.3	23.6	NO	0.999	NO	bb
2	2 180130M2_3	Standard	0.500	5.31	801.007	14143.141	0.708	0.6	15.6	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	5.31	1303.505	14888.429	1.094	0.9	-9.4	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	5.31	2653.989	15103.803	2.196	1.8	-7.8	NO	0.999	NO	bb
5	5 180130M2_6	Standard	5.000	5.31	6411.717	14910.061	5.375	4.6	-9.0	NO	0.999	NO	bb
6	6 180130M2_7	Standard	10.000	5.31	11567.065	14939.002	9.679	8.2	-17.7	NO	0.999	NO	bb
7	7 180130M2_8	Standard	50.000	5.31	64903.789	13571.186	59.781	51.8	3.6	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	5.31	133786.313	14580.421	114.697	101.4	1.4	NO	0.999	NO	bb
9	9 180130M2_10	Standard	250.000	5.30	269359.000	12712.355	264.859	249.2	-0.3	NO	0.999	NO	bb
10	10 180130M2_11	Standard	500.000	5.31	501339.500	13224.735	473.865	499.9	-0.0	NO	0.999	NO	bb

Compound name: PFDS

Coefficient of Determination: R² = 0.998560

Calibration curve: -0.000101601 * x² + 0.27335 * x + -0.0126321

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	5.35	96.284	16376.577	0.073	0.3	26.0	NO	0.999	NO	bb
2	2 180130M2_3	Standard	0.500	5.35	101.634	14143.141	0.090	0.4	-25.0	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	5.35	361.620	14888.429	0.304	1.2	15.7	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	5.36	607.828	15103.803	0.503	1.9	-5.6	NO	0.999	NO	bb
5	5 180130M2_6	Standard	5.000	5.36	1591.206	14910.061	1.334	4.9	-1.3	NO	0.999	NO	bb
6	6 180130M2_7	Standard	10.000	5.36	2949.842	14939.002	2.468	9.1	-8.9	NO	0.999	NO	bb
7	7 180130M2_8	Standard	50.000	5.36	14836.292	13571.186	13.665	51.0	2.0	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	5.36	28720.633	14580.421	24.623	93.4	-6.6	NO	0.999	NO	bb
9	9 180130M2_10	Standard	250.000	5.36	65810.180	12712.355	64.711	262.4	4.9	NO	0.999	NO	bb
10	10 180130M2_11	Standard	500.000	5.36	116599.281	13224.735	110.209	493.9	-1.2	NO	0.999	NO	bb

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Compound name: PFDoA

Coefficient of Determination: R² = 0.997610

Calibration curve: -0.000594455 * x² + 1.49079 * x + 0.049628

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	5.59	313.215	9896.215	0.396	0.2	-7.2	NO	0.998	NO	bb
2	2 180130M2_3	Standard	0.500	5.59	687.082	9179.814	0.936	0.6	18.9	NO	0.998	NO	bb
3	3 180130M2_4	Standard	1.000	5.60	1309.532	11021.308	1.485	1.0	-3.7	NO	0.998	NO	bb
4	4 180130M2_5	Standard	2.000	5.60	3337.135	12445.758	3.352	2.2	10.8	NO	0.998	NO	bb
5	5 180130M2_6	Standard	5.000	5.60	6438.053	12067.352	6.669	4.4	-11.0	NO	0.998	NO	bb
6	6 180130M2_7	Standard	10.000	5.59	13914.285	12514.131	13.899	9.3	-6.8	NO	0.998	NO	bb
7	7 180130M2_8	Standard	50.000	5.59	57706.848	10850.401	66.480	45.4	-9.2	NO	0.998	NO	bb
8	8 180130M2_9	Standard	100.000	5.59	141099.344	11191.926	157.591	110.5	10.5	NO	0.998	NO	bb
9	9 180130M2_10	Standard	250.000	5.59	282392.344	10785.471	327.283	243.1	-2.8	NO	0.998	NO	bb
10	10 180130M2_11	Standard	500.000	5.59	501426.281	10467.454	598.792	502.2	0.4	NO	0.998	NO	bb

Compound name: N-MeFOSA

Correlation coefficient: r = 0.997510, r² = 0.995026

Calibration curve: 0.967768 * x + 0.447867

Response type: Internal Std (Ref 51), 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 180130M2_2	Standard	1.250	5.70	160.330	16447.836	1.462	1.0	-16.2	NO	0.995	NO	bb
2	2 180130M2_3	Standard	2.500	5.71	327.477	16202.515	3.032	2.7	6.8	NO	0.995	NO	bb
3	3 180130M2_4	Standard	5.000	5.71	629.732	17642.555	5.354	5.1	1.4	NO	0.995	NO	bb
4	4 180130M2_5	Standard	10.000	5.71	1248.572	16327.131	11.471	11.4	13.9	NO	0.995	NO	bb
5	5 180130M2_6	Standard	25.000	5.71	2841.527	16733.125	25.472	25.9	3.4	NO	0.995	NO	bb
6	6 180130M2_7	Standard	50.000	5.71	6451.300	17104.477	56.576	58.0	16.0	NO	0.995	NO	bb
7	7 180130M2_8	Standard	250.000	5.71	31397.322	17488.910	269.291	277.8	11.1	NO	0.995	NO	bb
8	8 180130M2_9	Standard	500.000	5.71	61615.895	18006.723	513.274	529.9	6.0	NO	0.995	NO	bb
9	9 180130M2_10	Standard	1250.000	5.71	130970.477	17167.242	1144.364	1182.0	-5.4	NO	0.995	NO	bb
10	10 180130M2_11	Standard	2500.000	5.71	247164.484	17554.230	2112.008	2181.9	-12.7	NO	0.995	NO	bdX

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Compound name: PFTrDA

Coefficient of Determination: R² = 0.998380

Calibration curve: 0.00116218 * x² + 3.72741 * x + 0.213622

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	5.84	506.435	4814.393	1.315	0.3	18.2	NO	0.998	NO	bbX
2	2 180130M2_3	Standard	0.500	5.84	847.558	4451.768	2.380	0.6	16.2	NO	0.998	NO	bb
3	3 180130M2_4	Standard	1.000	5.84	1567.660	4605.410	4.255	1.1	8.4	NO	0.998	NO	bb
4	4 180130M2_5	Standard	2.000	5.85	2448.959	5326.945	5.747	1.5	-25.8	NO	0.998	NO	bb
5	5 180130M2_6	Standard	5.000	5.85	6981.399	4987.994	17.496	4.6	-7.4	NO	0.998	NO	bb
6	6 180130M2_7	Standard	10.000	5.84	18375.619	5603.112	40.994	10.9	9.0	NO	0.998	NO	bb
7	7 180130M2_8	Standard	50.000	5.84	77382.305	5129.476	188.573	49.8	-0.5	NO	0.998	NO	bb
8	8 180130M2_9	Standard	100.000	5.84	155153.625	5040.080	384.800	100.1	0.1	NO	0.998	NO	bb
9	9 180130M2_10	Standard	250.000	5.84	250574.375	5446.927	575.036	147.4	-41.0	YES	0.998	NO	bbX
10	10 180130M2_11	Standard	500.000	5.84	511010.469	5008.250	1275.422	311.8	-37.6	YES	0.998	NO	bbX

Compound name: PFTeDA

Coefficient of Determination: R² = 0.998712

Calibration curve: -0.00135735 * x² + 2.29654 * x + 0.279781

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	0.250	6.06	325.508	4814.393	0.845	0.2	-1.5	NO	0.999	NO	bb
2	2 180130M2_3	Standard	0.500	6.06	414.491	4451.768	1.164	0.4	-23.0	NO	0.999	NO	bb
3	3 180130M2_4	Standard	1.000	6.06	1012.122	4605.410	2.747	1.1	7.5	NO	0.999	NO	bb
4	4 180130M2_5	Standard	2.000	6.06	2114.865	5326.945	4.963	2.0	2.1	NO	0.999	NO	bb
5	5 180130M2_6	Standard	5.000	6.07	4774.646	4987.994	11.965	5.1	2.1	NO	0.999	NO	bb
6	6 180130M2_7	Standard	10.000	6.06	11289.290	5603.112	25.185	10.9	9.2	NO	0.999	NO	bb
7	7 180130M2_8	Standard	50.000	6.06	47881.004	5129.476	116.681	52.3	4.6	NO	0.999	NO	bb
8	8 180130M2_9	Standard	100.000	6.06	89751.586	5040.080	222.595	103.1	3.1	NO	0.999	NO	bb
9	9 180130M2_10	Standard	250.000	6.06	203120.719	5446.927	466.136	235.7	-5.7	NO	0.999	NO	bb
10	10 180130M2_11	Standard	500.000	6.06	328198.250	5008.250	819.144	510.7	2.1	NO	0.999	NO	bb

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Compound name: N-EtFOSA

Coefficient of Determination: R^2 = 0.999373

Calibration curve: $-4.62743e-005 * x^2 + 0.907515 * x + 0.0608264$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	1.250	6.12	194.223	26732.176	1.090	1.1	-9.3	NO	0.999	NO	bb
2	2 180130M2_3	Standard	2.500	6.13	383.935	25847.691	2.228	2.4	-4.5	NO	0.999	NO	bb
3	3 180130M2_4	Standard	5.000	6.13	805.617	25791.316	4.685	5.1	1.9	NO	0.999	NO	bb
4	4 180130M2_5	Standard	10.000	6.13	1585.093	26573.410	8.947	9.8	-2.0	NO	0.999	NO	bb
5	5 180130M2_6	Standard	25.000	6.13	3895.365	25316.451	23.080	25.4	1.6	NO	0.999	NO	bb
6	6 180130M2_7	Standard	50.000	6.13	8377.025	25481.031	49.313	54.4	8.8	NO	0.999	NO	bb
7	7 180130M2_8	Standard	250.000	6.13	41299.340	26351.174	235.090	262.5	5.0	NO	0.999	NO	bb
8	8 180130M2_9	Standard	500.000	6.13	79129.008	26572.170	446.684	505.1	1.0	NO	0.999	NO	bb
9	9 180130M2_10	Standard	1250.000	6.13	169427.813	24740.119	1027.245	1206.0	-3.5	NO	0.999	NO	bb
10	10 180130M2_11	Standard	2500.000	6.13	304852.156	22921.061	1995.013	2522.8	0.9	NO	0.999	NO	bb

Compound name: PFHxDA

Coefficient of Determination: R^2 = 0.999557

Calibration curve: $-0.0005817 * x^2 + 0.611008 * x + 0.0713706$

Response type: Internal Std (Ref 54), 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 180130M2_2	Standard	0.250	6.40	150.321	3669.718	0.205	0.2	-12.6	NO	1.000	NO	bb
2	2 180130M2_3	Standard	0.500	6.40	279.687	3465.723	0.404	0.5	8.8	NO	1.000	NO	bb
3	3 180130M2_4	Standard	1.000	6.41	508.604	4127.492	0.616	0.9	-10.8	NO	1.000	NO	bb
4	4 180130M2_5	Standard	2.000	6.41	1078.192	4006.979	1.345	2.1	4.5	NO	1.000	NO	bb
5	5 180130M2_6	Standard	5.000	6.41	2710.907	4192.145	3.233	5.2	4.0	NO	1.000	NO	bb
6	6 180130M2_7	Standard	10.000	6.41	4673.373	3563.170	6.558	10.7	7.3	NO	1.000	NO	bb
7	7 180130M2_8	Standard	50.000	6.40	22944.072	3902.427	29.397	50.4	0.8	NO	1.000	NO	bb
8	8 180130M2_9	Standard	100.000	6.40	46612.691	4303.081	54.162	97.6	-2.4	NO	1.000	NO	bb
9	9 180130M2_10	Standard	250.000	6.40	99023.617	4236.179	116.878	251.3	0.5	NO	1.000	NO	bb
10	10 180130M2_11	Standard	500.000	6.40	170139.297	4049.145	210.093			NO	1.000	NO	bbXI

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.996012$

Calibration curve: $-0.000908448 * x^2 + 0.81449 * x + 0.0357617$

Response type: Internal Std (Ref 54), 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 180130M2_2	Standard	0.250	6.64	158.263	3669.718	0.216	0.2	-11.6	NO	0.996	NO	bb
2	2 180130M2_3	Standard	0.500	6.64	338.998	3465.723	0.489	0.6	11.4	NO	0.996	NO	bb
3	3 180130M2_4	Standard	1.000	6.64	697.983	4127.492	0.846	1.0	-0.5	NO	0.996	NO	bb
4	4 180130M2_5	Standard	2.000	6.64	1245.379	4006.979	1.554	1.9	-6.6	NO	0.996	NO	bb
5	5 180130M2_6	Standard	5.000	6.64	3540.888	4192.145	4.223	5.2	3.4	NO	0.996	NO	bb
6	6 180130M2_7	Standard	10.000	6.64	7111.718	3563.170	9.979	12.4	23.8	NO	0.996	NO	bb
7	7 180130M2_8	Standard	50.000	6.64	31255.189	3902.427	40.046	52.2	4.3	NO	0.996	NO	bb
8	8 180130M2_9	Standard	100.000	6.64	57852.383	4303.081	67.222	91.9	-8.1	NO	0.996	NO	bb
9	9 180130M2_10	Standard	250.000	6.64	125867.570	4236.179	148.563	254.7	1.9	NO	0.996	NO	bb
10	10 180130M2_11	Standard	500.000	6.64	234253.500	4049.145	289.263			NO	0.996	NO	bbXI

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.996418$, $r^2 = 0.992848$

Calibration curve: $0.916664 * x + 0.283188$

Response type: Internal Std (Ref 55), 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 180130M2_2	Standard	1.250	6.30	163.462	20511.127	1.195	1.0	-20.4	NO	0.993	NO	bb
2	2 180130M2_3	Standard	2.500	6.30	420.015	25191.553	2.501	2.4	-3.2	NO	0.993	NO	bb
3	3 180130M2_4	Standard	5.000	6.30	787.427	25217.705	4.684	4.8	-4.0	NO	0.993	NO	bb
4	4 180130M2_5	Standard	10.000	6.30	1354.469	18800.625	10.807	11.5	14.8	NO	0.993	NO	bb
5	5 180130M2_6	Standard	25.000	6.30	3749.616	24643.811	22.823	24.6	-1.6	NO	0.993	NO	bb
6	6 180130M2_7	Standard	50.000	6.30	6708.870	21160.852	47.556	51.6	3.1	NO	0.993	NO	bd
7	7 180130M2_8	Standard	250.000	6.30	37693.520	25076.201	225.474	245.7	-1.7	NO	0.993	NO	bb
8	8 180130M2_9	Standard	500.000	6.30	85510.313	23019.229	557.210	607.6	21.5	NO	0.993	NO	bb
9	9 180130M2_10	Standard	1250.000	6.30	180450.969	25816.693	1048.455	1143.5	-8.5	NO	0.993	NO	bb
10	10 180130M2_11	Standard	2500.000	6.30	375097.469	24536.986	2293.053	2501.2	0.0	NO	0.993	NO	bb

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.996106$, $r^2 = 0.992228$

Calibration curve: $1.16767 * x + 0.0208375$

Response type: Internal Std (Ref 56), 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	180130M2_2	Standard	1.250	6.45	218.313	19448.451	1.684	1.4	13.9	NO	0.992	NO	bb
2	180130M2_3	Standard	2.500	6.45	434.112	24035.443	2.709	2.3	-7.9	NO	0.992	NO	bb
3	180130M2_4	Standard	5.000	6.45	698.316	24472.643	4.280	3.6	-27.0	NO	0.992	NO	bb
4	180130M2_5	Standard	10.000	6.45	1828.057	18758.516	14.618	12.5	25.0	NO	0.992	NO	bb
5	180130M2_6	Standard	25.000	6.45	3869.933	20007.965	29.013	24.8	-0.7	NO	0.992	NO	bb
6	180130M2_7	Standard	50.000	6.45	8816.345	25158.520	52.565	45.0	-10.0	NO	0.992	NO	bb
7	180130M2_8	Standard	250.000	6.45	47240.699	21715.514	326.315	279.4	11.8	NO	0.992	NO	bb
8	180130M2_9	Standard	500.000	6.45	87762.852	23753.662	554.206	474.6	-5.1	NO	0.992	NO	bb
9	180130M2_10	Standard	1250.000	6.45	236022.172	20525.086	1724.881	1477.2	18.2	NO	0.992	NO	bbX
10	180130M2_11	Standard	2500.000	6.45	382955.969	21442.361	2678.968	2294.3	-8.2	NO	0.992	NO	bbX

Compound name: 13C3-PFBA

Response Factor: 0.841532

RRF SD: 0.0337006, Relative SD: 4.00468

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	180130M2_2	Standard	12.500	1.29	6876.616	8210.687	10.469	12.4	-0.5	NO		NO	MM
2	180130M2_3	Standard	12.500	1.29	6670.910	8326.326	10.015	11.9	-4.8	NO		NO	MM
3	180130M2_4	Standard	12.500	1.29	6686.141	8545.569	9.780	11.6	-7.0	NO		NO	MM
4	180130M2_5	Standard	12.500	1.29	7453.242	8399.944	11.091	13.2	5.4	NO		NO	MM
5	180130M2_6	Standard	12.500	1.29	7296.654	8315.953	10.968	13.0	4.3	NO		NO	MM
6	180130M2_7	Standard	12.500	1.29	7576.361	8964.952	10.564	12.6	0.4	NO		NO	MM
7	180130M2_8	Standard	12.500	1.29	7914.732	9521.732	10.390	12.3	-1.2	NO		NO	MM
8	180130M2_9	Standard	12.500	1.29	8748.384	10081.110	10.847	12.9	3.1	NO		NO	bb
9	180130M2_10	Standard	12.500	1.29	7969.932	9700.431	10.270	12.2	-2.4	NO		NO	MM
10	180130M2_11	Standard	12.500	1.29	8561.667	9912.341	10.797	12.8	2.6	NO		NO	MM

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Compound name: 13C3-PFPeA

Response Factor: 0.870345

RRF SD: 0.0403566, Relative SD: 4.63686

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 180130M2_2	Standard	12.500	2.24	11593.497	13011.596	11.138	12.8	2.4	NO		NO	bb
2	2 180130M2_3	Standard	12.500	2.24	11553.364	13195.139	10.945	12.6	0.6	NO		NO	bb
3	3 180130M2_4	Standard	12.500	2.24	12093.586	13969.374	10.822	12.4	-0.5	NO		NO	bb
4	4 180130M2_5	Standard	12.500	2.25	11420.756	13576.036	10.516	12.1	-3.3	NO		NO	bb
5	5 180130M2_6	Standard	12.500	2.25	11755.113	12245.354	12.000	13.8	10.3	NO		NO	bb
6	6 180130M2_7	Standard	12.500	2.25	12249.239	14139.857	10.829	12.4	-0.5	NO		NO	bb
7	7 180130M2_8	Standard	12.500	2.24	11794.470	14528.324	10.148	11.7	-6.7	NO		NO	bb
8	8 180130M2_9	Standard	12.500	2.25	12359.346	14090.640	10.964	12.6	0.8	NO		NO	bb
9	9 180130M2_10	Standard	12.500	2.25	11197.215	13488.114	10.377	11.9	-4.6	NO		NO	bb
10	10 180130M2_11	Standard	12.500	2.25	10759.299	12163.914	11.057	12.7	1.6	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.109211

RRF SD: 0.00692146, Relative SD: 6.3377

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 180130M2_2	Standard	12.500	2.53	1557.144	13011.596	1.496	13.7	9.6	NO		NO	bb
2	2 180130M2_3	Standard	12.500	2.52	1504.408	13195.139	1.425	13.0	4.4	NO		NO	bb
3	3 180130M2_4	Standard	12.500	2.53	1373.188	13969.374	1.229	11.3	-10.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	2.53	1405.841	13576.036	1.294	11.9	-5.2	NO		NO	bb
5	5 180130M2_6	Standard	12.500	2.52	1473.915	12245.354	1.505	13.8	10.2	NO		NO	bb
6	6 180130M2_7	Standard	12.500	2.52	1524.539	14139.857	1.348	12.3	-1.3	NO		NO	bb
7	7 180130M2_8	Standard	12.500	2.52	1550.796	14528.324	1.334	12.2	-2.3	NO		NO	bb
8	8 180130M2_9	Standard	12.500	2.52	1524.122	14090.640	1.352	12.4	-1.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	2.53	1426.854	13488.114	1.322	12.1	-3.1	NO		NO	bb
10	10 180130M2_11	Standard	12.500	2.53	1309.955	12163.914	1.346	12.3	-1.4	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.683986

RRF SD: 0.0402348, Relative SD: 5.8824

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 180130M2_2	Standard	5.000	3.02	3444.513	13011.596	3.309	4.8	-3.2	NO		NO	bb
2	2 180130M2_3	Standard	5.000	3.02	3804.890	13195.139	3.604	5.3	5.4	NO		NO	bb
3	3 180130M2_4	Standard	5.000	3.02	3925.958	13969.374	3.513	5.1	2.7	NO		NO	bb
4	4 180130M2_5	Standard	5.000	3.02	3424.845	13576.036	3.153	4.6	-7.8	NO		NO	bb
5	5 180130M2_6	Standard	5.000	3.02	3509.592	12245.354	3.583	5.2	4.8	NO		NO	bb
6	6 180130M2_7	Standard	5.000	3.02	3506.838	14139.857	3.100	4.5	-9.4	NO		NO	bb
7	7 180130M2_8	Standard	5.000	3.02	3857.463	14528.324	3.319	4.9	-3.0	NO		NO	bb
8	8 180130M2_9	Standard	5.000	3.02	4084.247	14090.640	3.623	5.3	5.9	NO		NO	bb
9	9 180130M2_10	Standard	5.000	3.02	3610.123	13488.114	3.346	4.9	-2.2	NO		NO	bb
10	10 180130M2_11	Standard	5.000	3.02	3550.825	12163.914	3.649	5.3	6.7	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.73222

RRF SD: 0.0705618, Relative SD: 9.6367

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 180130M2_2	Standard	12.500	3.64	8881.518	13011.596	8.532	11.7	-6.8	NO		NO	bb
2	2 180130M2_3	Standard	12.500	3.64	9917.206	13195.139	9.395	12.8	2.6	NO		NO	bb
3	3 180130M2_4	Standard	12.500	3.64	11092.101	13969.374	9.925	13.6	8.4	NO		NO	bb
4	4 180130M2_5	Standard	12.500	3.64	8887.327	13576.036	8.183	11.2	-10.6	NO		NO	bb
5	5 180130M2_6	Standard	12.500	3.64	10858.797	12245.354	11.085	15.1	21.1	NO		NO	bb
6	6 180130M2_7	Standard	12.500	3.64	10289.855	14139.857	9.096	12.4	-0.6	NO		NO	bb
7	7 180130M2_8	Standard	12.500	3.64	9713.688	14528.324	8.358	11.4	-8.7	NO		NO	bb
8	8 180130M2_9	Standard	12.500	3.64	10630.633	14090.640	9.431	12.9	3.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	3.64	9057.838	13488.114	8.394	11.5	-8.3	NO		NO	bb
10	10 180130M2_11	Standard	12.500	3.64	8883.200	12163.914	9.129	12.5	-0.3	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.318489

RRF SD: 0.026213, Relative SD: 8.23042

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	3.79	1053.045	3133.309	4.201	13.2	5.5	NO		NO	bb
2	2 180130M2_3	Standard	12.500	3.79	903.095	3317.915	3.402	10.7	-14.5	NO		NO	bb
3	3 180130M2_4	Standard	12.500	3.79	997.103	3208.628	3.884	12.2	-2.4	NO		NO	bb
4	4 180130M2_5	Standard	12.500	3.80	989.370	3366.284	3.674	11.5	-7.7	NO		NO	bb
5	5 180130M2_6	Standard	12.500	3.80	1029.990	2940.188	4.379	13.7	10.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	3.80	963.713	3305.314	3.645	11.4	-8.5	NO		NO	bb
7	7 180130M2_8	Standard	12.500	3.79	1168.792	3393.047	4.306	13.5	8.2	NO		NO	bb
8	8 180130M2_9	Standard	12.500	3.80	1095.959	3208.935	4.269	13.4	7.2	NO		NO	bb
9	9 180130M2_10	Standard	12.500	3.80	1005.605	3056.239	4.113	12.9	3.3	NO		NO	bb
10	10 180130M2_11	Standard	12.500	3.79	900.761	2859.102	3.938	12.4	-1.1	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.263169

RRF SD: 0.050723, Relative SD: 19.2739

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

not used.

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.11	3156.692	13162.293	2.998	11.4	-8.9	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.11	3107.359	13413.036	2.896	11.0	-12.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.11	3000.727	12444.263	3.014	11.5	-8.4	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.11	3251.060	10618.383	3.827	14.5	16.3	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.11	2980.632	10983.482	3.392	12.9	3.1	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.11	2653.478	13183.299	2.516	9.6	-23.5	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.11	4002.189	11411.057	4.384	16.7	33.3	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.11	4850.995	14180.067	4.276	16.2	30.0	NO		NO	bbX
9	9 180130M2_10	Standard	12.500	4.11	5655.589	12593.902	5.613	21.3	70.6	NO		NO	bbX
10	10 180130M2_11	Standard	12.500	4.11	8018.997	9719.872	10.313	39.2	213.5	NO		NO	bbX

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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Compound name: 13C2-PFOA

Response Factor: 1.12022

RRF SD: 0.11738, Relative SD: 10.4783

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.16	13083.550	13162.293	12.425	11.1	-11.3	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.16	12909.832	13413.036	12.031	10.7	-14.1	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.16	13755.024	12444.263	13.817	12.3	-1.3	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.17	12662.505	10618.383	14.906	13.3	6.5	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.17	13917.645	10983.482	15.839	14.1	13.1	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.17	13938.184	13183.299	13.216	11.8	-5.6	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.16	14519.339	11411.057	15.905	14.2	13.6	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.16	15012.127	14180.067	13.233	11.8	-5.5	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.16	13058.033	12593.902	12.961	11.6	-7.4	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.16	12203.416	9719.872	15.694	14.0	12.1	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.920666

RRF SD: 0.0784975, Relative SD: 8.52617

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.60	11924.658	13730.651	10.856	11.8	-5.7	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.60	12590.917	13491.499	11.666	12.7	1.4	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.61	13916.688	13218.265	13.160	14.3	14.4	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.61	11553.559	14457.424	9.989	10.9	-13.2	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.60	11286.473	13628.121	10.352	11.2	-10.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.60	12654.078	14589.838	10.842	11.8	-5.8	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.60	13283.173	13391.367	12.399	13.5	7.7	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.61	13966.063	14545.903	12.002	13.0	4.3	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.60	11905.473	12351.872	12.048	13.1	4.7	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.60	9374.423	9956.430	11.769	12.8	2.3	NO		NO	bb

Vista Analytical Laboratory

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: 13C8-PFOSA

Response Factor: 0.244741

RRF SD: 0.0264031, Relative SD: 10.7882

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.66	3565.097	15755.338	2.828	11.6	-7.5	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.66	3407.638	15660.628	2.720	11.1	-11.1	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.67	3539.375	12675.027	3.491	14.3	14.1	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.67	3497.803	14189.852	3.081	12.6	0.7	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.67	3378.658	11842.846	3.566	14.6	16.6	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.67	3567.036	14412.081	3.094	12.6	1.1	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.66	3558.686	14198.612	3.133	12.8	2.4	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.67	3598.307	16312.248	2.757	11.3	-9.9	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.66	2758.122	13227.100	2.607	10.7	-14.8	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.66	2957.394	11149.031	3.316	13.5	8.4	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 1.03353

RRF SD: 0.0998805, Relative SD: 9.66405

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.69	3303.503	3212.197	12.855	12.4	-0.5	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.69	2799.563	3362.358	10.408	10.1	-19.4	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.69	3313.572	3363.125	12.316	11.9	-4.7	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.69	3118.645	2718.791	14.338	13.9	11.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.69	3222.721	2720.529	14.807	14.3	14.6	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.69	3355.895	3128.131	13.410	13.0	3.8	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.69	3007.765	2802.440	13.416	13.0	3.8	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.69	3145.492	3275.906	12.002	11.6	-7.1	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.69	2900.628	2730.239	13.280	12.8	2.8	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.69	2708.485	2739.693	12.358	12.0	-4.3	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: 13C2-PFDA

Response Factor: 1.07972

RRF SD: 0.153332, Relative SD: 14.2011

Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180130M2_2	Standard	12.500	4.98	10373.150	11681.606	11.100	10.3	-17.8	NO		NO	bb
2	180130M2_3	Standard	12.500	4.98	11181.896	11524.776	12.128	11.2	-10.1	NO		NO	bb
3	180130M2_4	Standard	12.500	4.98	11103.892	10147.010	13.679	12.7	1.4	NO		NO	bb
4	180130M2_5	Standard	12.500	4.98	11098.916	12501.062	11.098	10.3	-17.8	NO		NO	bb
5	180130M2_6	Standard	12.500	4.98	13841.649	11576.651	14.946	13.8	10.7	NO		NO	bb
6	180130M2_7	Standard	12.500	4.98	13395.807	11702.526	14.309	13.3	6.0	NO		NO	bb
7	180130M2_8	Standard	12.500	4.98	13454.328	11645.483	14.442	13.4	7.0	NO		NO	bb
8	180130M2_9	Standard	12.500	4.98	12731.192	12593.452	12.637	11.7	-6.4	NO		NO	bb
9	180130M2_10	Standard	12.500	4.98	11335.476	10707.824	13.233	12.3	-2.0	NO		NO	bb
10	180130M2_11	Standard	12.500	4.98	12827.448	9217.814	17.395	16.1	28.9	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.164841

RRF SD: 0.0113088, Relative SD: 6.86043

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

not used.

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	180130M2_2	Standard	12.500	4.95	2169.507	13011.596	2.084	12.6	1.1	NO		NO	bb
2	180130M2_3	Standard	12.500	4.95	2044.149	13195.139	1.936	11.7	-6.0	NO		NO	bb
3	180130M2_4	Standard	12.500	4.95	2397.072	13969.374	2.145	13.0	4.1	NO		NO	bb
4	180130M2_5	Standard	12.500	4.95	2070.323	13576.030	1.906	11.6	-7.5	NO		NO	bb
5	180130M2_6	Standard	12.500	4.95	2248.008	12245.354	2.295	13.9	11.4	NO		NO	bb
6	180130M2_7	Standard	12.500	4.95	2193.182	14139.857	1.939	11.8	-5.9	NO		NO	bb
7	180130M2_8	Standard	12.500	4.95	2461.959	14528.324	2.118	12.9	2.8	NO		NO	bb
8	180130M2_9	Standard	12.500	4.95	3667.879	14090.640	3.254	19.7	57.9	NO		NO	bbX
9	180130M2_10	Standard	12.500	4.95	4299.694	13488.114	3.985	24.2	93.4	NO		NO	bbX
10	180130M2_11	Standard	12.500	4.95	5071.375	12163.914	5.211	31.6	152.9	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.397712

RRF SD: 0.048044, Relative SD: 12.0801

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	5.13	5651.358	15755.338	4.484	11.3	-9.8	NO		NO	bb
2	2 180130M2_3	Standard	12.500	5.13	5094.401	15660.628	4.066	10.2	-18.2	NO		NO	bb
3	3 180130M2_4	Standard	12.500	5.13	5659.655	12675.027	5.582	14.0	12.3	NO		NO	bb
4	4 180130M2_5	Standard	12.500	5.14	5256.864	14189.852	4.631	11.6	-6.9	NO		NO	bb
5	5 180130M2_6	Standard	12.500	5.13	5623.414	11842.846	5.935	14.9	19.4	NO		NO	bb
6	6 180130M2_7	Standard	12.500	5.13	5524.531	14412.081	4.792	12.0	-3.6	NO		NO	bb
7	7 180130M2_8	Standard	12.500	5.13	5612.226	14198.612	4.941	12.4	-0.6	NO		NO	bb
8	8 180130M2_9	Standard	12.500	5.13	6113.146	16312.248	4.684	11.8	-5.8	NO		NO	bb
9	9 180130M2_10	Standard	12.500	5.13	5111.627	13227.100	4.831	12.1	-2.8	NO		NO	bb
10	10 180130M2_11	Standard	12.500	5.13	5145.271	11149.031	5.769	14.5	16.0	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.424932

RRF SD: 0.0580241, Relative SD: 13.6549

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	5.28	6094.616	15755.338	4.835	11.4	-9.0	NO		NO	MM
2	2 180130M2_3	Standard	12.500	5.29	6234.195	15660.628	4.976	11.7	-6.3	NO		NO	MM
3	3 180130M2_4	Standard	12.500	5.29	6814.311	12675.027	6.720	15.8	26.5	NO		NO	MM
4	4 180130M2_5	Standard	12.500	5.29	4971.428	14189.852	4.379	10.3	-17.6	NO		NO	MM
5	5 180130M2_6	Standard	12.500	5.29	5897.333	11842.846	6.225	14.6	17.2	NO		NO	bb
6	6 180130M2_7	Standard	12.500	5.29	6240.996	14412.081	5.413	12.7	1.9	NO		NO	bb
7	7 180130M2_8	Standard	12.500	5.29	6520.371	14198.612	5.740	13.5	8.1	NO		NO	bb
8	8 180130M2_9	Standard	12.500	5.29	6313.640	16312.248	4.838	11.4	-8.9	NO		NO	bb
9	9 180130M2_10	Standard	12.500	5.29	5061.634	13227.100	4.783	11.3	-9.9	NO		NO	bb
10	10 180130M2_11	Standard	12.500	5.29	4643.514	11149.031	5.206	12.3	-2.0	NO		NO	bb

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Compound name: 13C2-PFUdA

Response Factor: 1.0474

RRF SD: 0.125136, Relative SD: 11.9473

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	5.30	16376.577	15755.338	12.993	12.4	-0.8	NO		NO	bb
2	2 180130M2_3	Standard	12.500	5.30	14143.141	15660.628	11.289	10.8	-13.8	NO		NO	bb
3	3 180130M2_4	Standard	12.500	5.31	14888.429	12675.027	14.683	14.0	12.1	NO		NO	bb
4	4 180130M2_5	Standard	12.500	5.31	15103.803	14189.852	13.305	12.7	1.6	NO		NO	bb
5	5 180130M2_6	Standard	12.500	5.31	14910.061	11842.846	15.737	15.0	20.2	NO		NO	bb
6	6 180130M2_7	Standard	12.500	5.31	14939.002	14412.081	12.957	12.4	-1.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	5.31	13571.186	14198.612	11.948	11.4	-8.7	NO		NO	bb
8	8 180130M2_9	Standard	12.500	5.31	14580.421	16312.248	11.173	10.7	-14.7	NO		NO	bb
9	9 180130M2_10	Standard	12.500	5.31	12712.355	13227.100	12.014	11.5	-8.2	NO		NO	bb
10	10 180130M2_11	Standard	12.500	5.31	13224.735	11149.031	14.827	14.2	13.2	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.805274

RRF SD: 0.138303, Relative SD: 17.1746

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	5.59	9896.215	15755.338	7.851	9.8	-22.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	5.59	9179.814	15660.628	7.327	9.1	-27.2	NO		NO	bb
3	3 180130M2_4	Standard	12.500	5.59	11021.308	12675.027	10.869	13.5	8.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	5.59	12445.758	14189.852	10.964	13.6	8.9	NO		NO	bb
5	5 180130M2_6	Standard	12.500	5.59	12067.352	11842.846	12.737	15.8	26.5	NO		NO	bb
6	6 180130M2_7	Standard	12.500	5.60	12514.131	14412.081	10.854	13.5	7.8	NO		NO	bb
7	7 180130M2_8	Standard	12.500	5.60	10850.401	14198.612	9.552	11.9	-5.1	NO		NO	bb
8	8 180130M2_9	Standard	12.500	5.59	11191.926	16312.248	8.576	10.7	-14.8	NO		NO	bb
9	9 180130M2_10	Standard	12.500	5.59	10785.471	13227.100	10.193	12.7	1.3	NO		NO	bb
10	10 180130M2_11	Standard	12.500	5.59	10467.454	11149.031	11.736	14.6	16.6	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: d3-N-MeFOSA

Response Factor: 0.103574

RRF SD: 0.0146509, Relative SD: 14.1454

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	150.000	5.74	16447.836	15755.338	13.049	126.0	-16.0	NO		NO	bb
2	2 180130M2_3	Standard	150.000	5.74	16202.515	15660.628	12.933	124.9	-16.8	NO		NO	bb
3	3 180130M2_4	Standard	150.000	5.74	17642.555	12675.027	17.399	168.0	12.0	NO		NO	bb
4	4 180130M2_5	Standard	150.000	5.74	16327.131	14189.852	14.383	138.9	-7.4	NO		NO	bb
5	5 180130M2_6	Standard	150.000	5.74	16733.125	11842.846	17.662	170.5	13.7	NO		NO	bb
6	6 180130M2_7	Standard	150.000	5.74	17104.477	14412.081	14.835	143.2	-4.5	NO		NO	bb
7	7 180130M2_8	Standard	150.000	5.74	17488.910	14198.612	15.397	148.7	-0.9	NO		NO	bb
8	8 180130M2_9	Standard	150.000	5.74	18006.723	16312.248	13.798	133.2	-11.2	NO		NO	bb
9	9 180130M2_10	Standard	150.000	5.74	17167.242	13227.100	16.224	156.6	4.4	NO		NO	bb
10	10 180130M2_11	Standard	150.000	5.74	17554.230	11149.031	19.681	190.0	26.7	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.36698

RRF SD: 0.0540347, Relative SD: 14.7241

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	6.07	4814.393	15755.338	3.820	10.4	-16.7	NO		NO	bb
2	2 180130M2_3	Standard	12.500	6.07	4451.768	15660.628	3.553	9.7	-22.5	NO		NO	bb
3	3 180130M2_4	Standard	12.500	6.06	4605.410	12675.027	4.542	12.4	-1.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	6.06	5326.945	14189.852	4.693	12.8	2.3	NO		NO	bb
5	5 180130M2_6	Standard	12.500	6.06	4987.994	11842.846	5.265	14.3	14.8	NO		NO	bb
6	6 180130M2_7	Standard	12.500	6.06	5603.112	14412.081	4.860	13.2	5.9	NO		NO	bb
7	7 180130M2_8	Standard	12.500	6.07	5129.476	14198.612	4.516	12.3	-1.6	NO		NO	bb
8	8 180130M2_9	Standard	12.500	6.06	5040.080	16312.248	3.862	10.5	-15.8	NO		NO	bb
9	9 180130M2_10	Standard	12.500	6.07	5446.927	13227.100	5.148	14.0	12.2	NO		NO	bb
10	10 180130M2_11	Standard	12.500	6.06	5008.250	11149.031	5.615	15.3	22.4	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: d5-N-ETFOSA

Response Factor: 0.154763

RRF SD: 0.014663, Relative SD: 9.47446

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	150.000	6.14	26732.176	15755.338	21.209	137.0	-8.6	NO		NO	bb
2	2 180130M2_3	Standard	150.000	6.14	25847.691	15660.628	20.631	133.3	-11.1	NO		NO	bb
3	3 180130M2_4	Standard	150.000	6.15	25791.316	12675.027	25.435	164.3	9.6	NO		NO	bb
4	4 180130M2_5	Standard	150.000	6.15	26573.410	14189.852	23.409	151.3	0.8	NO		NO	bb
5	5 180130M2_6	Standard	150.000	6.15	25316.451	11842.846	26.721	172.7	15.1	NO		NO	bb
6	6 180130M2_7	Standard	150.000	6.15	25481.031	14412.081	22.100	142.8	-4.8	NO		NO	bb
7	7 180130M2_8	Standard	150.000	6.15	26351.174	14198.612	23.199	149.9	-0.1	NO		NO	bb
8	8 180130M2_9	Standard	150.000	6.15	26572.170	16312.248	20.362	131.6	-12.3	NO		NO	bb
9	9 180130M2_10	Standard	150.000	6.15	24740.119	13227.100	23.380	151.1	0.7	NO		NO	bb
10	10 180130M2_11	Standard	150.000	6.15	22921.061	11149.031	25.698	166.1	10.7	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.721387

RRF SD: 0.12471, Relative SD: 17.2875

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	5.000	6.40	3669.718	15755.338	2.911	4.0	-19.3	NO		NO	bb
2	2 180130M2_3	Standard	5.000	6.40	3465.723	15660.628	2.766	3.8	-23.3	NO		NO	bb
3	3 180130M2_4	Standard	5.000	6.41	4127.492	12675.027	4.070	5.6	12.9	NO		NO	bb
4	4 180130M2_5	Standard	5.000	6.41	4006.979	14189.852	3.530	4.9	-2.1	NO		NO	bb
5	5 180130M2_6	Standard	5.000	6.41	4192.145	11842.846	4.425	6.1	22.7	NO		NO	bb
6	6 180130M2_7	Standard	5.000	6.41	3563.170	14412.081	3.090	4.3	-14.3	NO		NO	bb
7	7 180130M2_8	Standard	5.000	6.40	3902.427	14198.612	3.436	4.8	-4.8	NO		NO	bb
8	8 180130M2_9	Standard	5.000	6.40	4303.081	16312.248	3.297	4.6	-8.6	NO		NO	bb
9	9 180130M2_10	Standard	5.000	6.40	4236.179	13227.100	4.003	5.5	11.0	NO		NO	bb
10	10 180130M2_11	Standard	5.000	6.40	4049.145	11149.031	4.540	6.3	25.9	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Compound name: d7-N-MeFOSE

Response Factor: 0.142533

RRF SD: 0.0276541, Relative SD: 19.4019

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	150.000	6.28	20511.127	15755.338	16.273	114.2	-23.9	NO		NO	bb
2	2 180130M2_3	Standard	150.000	6.28	25191.553	15660.628	20.107	141.1	-6.0	NO		NO	bb
3	3 180130M2_4	Standard	150.000	6.29	25217.705	12675.027	24.869	174.5	16.3	NO		NO	bb
4	4 180130M2_5	Standard	150.000	6.29	18800.625	14189.852	16.562	116.2	-22.5	NO		NO	bd
5	5 180130M2_6	Standard	150.000	6.30	24643.811	11842.846	26.011	182.5	21.7	NO		NO	bb
6	6 180130M2_7	Standard	150.000	6.29	21160.852	14412.081	18.353	128.8	-14.2	NO		NO	bb
7	7 180130M2_8	Standard	150.000	6.29	25076.201	14198.612	22.076	154.9	3.3	NO		NO	bb
8	8 180130M2_9	Standard	150.000	6.29	23019.229	16312.248	17.640	123.8	-17.5	NO		NO	bb
9	9 180130M2_10	Standard	150.000	6.29	25816.693	13227.100	24.398	171.2	14.1	NO		NO	bb
10	10 180130M2_11	Standard	150.000	6.28	24536.986	11149.031	27.510	193.0	28.7	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.132647

RRF SD: 0.019358, Relative SD: 14.5937

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	150.000	6.44	19448.451	15755.338	15.430	116.3	-22.5	NO		NO	bb
2	2 180130M2_3	Standard	150.000	6.44	24035.443	15660.628	19.185	144.6	-3.6	NO		NO	bd
3	3 180130M2_4	Standard	150.000	6.44	24472.643	12675.027	24.135	181.9	21.3	NO		NO	bb
4	4 180130M2_5	Standard	150.000	6.44	18758.516	14189.852	16.525	124.6	-16.9	NO		NO	bb
5	5 180130M2_6	Standard	150.000	6.44	20007.965	11842.846	21.118	159.2	6.1	NO		NO	bb
6	6 180130M2_7	Standard	150.000	6.44	25158.520	14412.081	21.821	164.5	9.7	NO		NO	bb
7	7 180130M2_8	Standard	150.000	6.44	21715.514	14198.612	19.118	144.1	-3.9	NO		NO	bb
8	8 180130M2_9	Standard	150.000	6.44	23753.662	16312.248	18.202	137.2	-8.5	NO		NO	bb
9	9 180130M2_10	Standard	150.000	6.44	20525.086	13227.100	19.397	146.2	-2.5	NO		NO	bb
10	10 180130M2_11	Standard	150.000	6.44	21442.361	11149.031	24.041	181.2	20.8	NO		NO	bb

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 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 180130M2_2	Standard	12.500	1.28	8210.687	8210.687	12.500	12.5	0.0	NO		NO	MM
2	2 180130M2_3	Standard	12.500	1.28	8326.326	8326.326	12.500	12.5	0.0	NO		NO	MM
3	3 180130M2_4	Standard	12.500	1.28	8545.569	8545.569	12.500	12.5	0.0	NO		NO	MM
4	4 180130M2_5	Standard	12.500	1.29	8399.944	8399.944	12.500	12.5	0.0	NO		NO	MM
5	5 180130M2_6	Standard	12.500	1.28	8315.953	8315.953	12.500	12.5	0.0	NO		NO	MM
6	6 180130M2_7	Standard	12.500	1.29	8964.952	8964.952	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	1.29	9521.732	9521.732	12.500	12.5	0.0	NO		NO	MM
8	8 180130M2_9	Standard	12.500	1.29	10081.110	10081.110	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	1.29	9700.431	9700.431	12.500	12.5	0.0	NO		NO	db
10	10 180130M2_11	Standard	12.500	1.29	9912.341	9912.341	12.500	12.5	0.0	NO		NO	MM

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	3.02	13011.596	13011.596	12.500	12.5	0.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	3.02	13195.139	13195.139	12.500	12.5	0.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	3.02	13969.374	13969.374	12.500	12.5	0.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	3.02	13576.036	13576.036	12.500	12.5	0.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	3.02	12245.354	12245.354	12.500	12.5	0.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	3.02	14139.857	14139.857	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	3.02	14528.324	14528.324	12.500	12.5	0.0	NO		NO	bb
8	8 180130M2_9	Standard	12.500	3.02	14090.640	14090.640	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	3.02	13488.114	13488.114	12.500	12.5	0.0	NO		NO	bb
10	10 180130M2_11	Standard	12.500	3.02	12163.914	12163.914	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	3.79	3133.309	3133.309	12.500	12.5	0.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	3.79	3317.915	3317.915	12.500	12.5	0.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	3.79	3208.628	3208.628	12.500	12.5	0.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	3.80	3366.284	3366.284	12.500	12.5	0.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	3.80	2940.188	2940.188	12.500	12.5	0.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	3.80	3305.314	3305.314	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	3.79	3393.047	3393.047	12.500	12.5	0.0	NO		NO	bb
8	8 180130M2_9	Standard	12.500	3.80	3208.935	3208.935	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	3.79	3056.239	3056.239	12.500	12.5	0.0	NO		NO	bb
10	10 180130M2_11	Standard	12.500	3.80	2859.102	2859.102	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 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.16	13162.293	13162.293	12.500	12.5	0.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.16	13413.036	13413.036	12.500	12.5	0.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.16	12444.263	12444.263	12.500	12.5	0.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.17	10618.383	10618.383	12.500	12.5	0.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.17	10983.482	10983.482	12.500	12.5	0.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.17	13183.299	13183.299	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.16	11411.057	11411.057	12.500	12.5	0.0	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.16	14180.067	14180.067	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.16	12593.902	12593.902	12.500	12.5	0.0	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.17	9719.872	9719.872	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.60	13730.651	13730.651	12.500	12.5	0.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.60	13491.499	13491.499	12.500	12.5	0.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.60	13218.265	13218.265	12.500	12.5	0.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.61	14457.424	14457.424	12.500	12.5	0.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.60	13628.121	13628.121	12.500	12.5	0.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.60	14589.838	14589.838	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.60	13391.367	13391.367	12.500	12.5	0.0	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.61	14545.903	14545.903	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.60	12351.872	12351.872	12.500	12.5	0.0	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.60	9956.430	9956.430	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.69	3212.197	3212.197	12.500	12.5	0.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.69	3362.358	3362.358	12.500	12.5	0.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.69	3363.125	3363.125	12.500	12.5	0.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.69	2718.791	2718.791	12.500	12.5	0.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.69	2720.529	2720.529	12.500	12.5	0.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.69	3128.131	3128.131	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.69	2802.440	2802.440	12.500	12.5	0.0	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.69	3275.906	3275.906	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.69	2730.239	2730.239	12.500	12.5	0.0	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.69	2739.693	2739.693	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	4.98	11681.606	11681.606	12.500	12.5	0.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	4.98	11524.776	11524.776	12.500	12.5	0.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	4.98	10147.010	10147.010	12.500	12.5	0.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	4.98	12501.062	12501.062	12.500	12.5	0.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	4.98	11576.651	11576.651	12.500	12.5	0.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	4.98	11702.526	11702.526	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	4.98	11645.483	11645.483	12.500	12.5	0.0	NO		NO	bb
8	8 180130M2_9	Standard	12.500	4.98	12593.452	12593.452	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	4.98	10707.824	10707.824	12.500	12.5	0.0	NO		NO	bb
10	10 180130M2_11	Standard	12.500	4.98	9217.814	9217.814	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUdA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 64), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180130M2_2	Standard	12.500	5.30	15755.338	15755.338	12.500	12.5	0.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	5.30	15660.628	15660.628	12.500	12.5	0.0	NO		NO	bb
3	3 180130M2_4	Standard	12.500	5.30	12675.027	12675.027	12.500	12.5	0.0	NO		NO	bb
4	4 180130M2_5	Standard	12.500	5.31	14189.852	14189.852	12.500	12.5	0.0	NO		NO	bb
5	5 180130M2_6	Standard	12.500	5.31	11842.846	11842.846	12.500	12.5	0.0	NO		NO	bb
6	6 180130M2_7	Standard	12.500	5.31	14412.081	14412.081	12.500	12.5	0.0	NO		NO	bb
7	7 180130M2_8	Standard	12.500	5.31	14198.612	14198.612	12.500	12.5	0.0	NO		NO	bb
8	8 180130M2_9	Standard	12.500	5.31	16312.248	16312.248	12.500	12.5	0.0	NO		NO	bb
9	9 180130M2_10	Standard	12.500	5.30	13227.100	13227.100	12.500	12.5	0.0	NO		NO	bb
10	10 180130M2_11	Standard	12.500	5.30	11149.031	11149.031	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C2-4:2 FTS

Response Factor: 0.2749

RRF SD: 0.0536262, Relative SD: 19.5075

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 180130M2_2	Standard	12.500	2.93	3217.796	13011.596	3.091	11.2	-10.0	NO		NO	bb
2	2 180130M2_3	Standard	12.500	2.93	3239.996	13195.139	3.069	11.2	-10.7	NO		NO	bb
3	3 180130M2_4	Standard	12.500	2.93	3408.473	13969.374	3.050	11.1	-11.2	NO		NO	bb
4	4 180130M2_5	Standard	12.500	2.93	2957.988	13576.036	2.724	9.9	-20.7	NO		NO	bb
5	5 180130M2_6	Standard	12.500	2.93	3295.877	12245.354	3.364	12.2	-2.1	NO		NO	bb
6	6 180130M2_7	Standard	12.500	2.93	3567.222	14139.857	3.154	11.5	-8.2	NO		NO	bb
7	7 180130M2_8	Standard	12.500	2.93	4012.883	14528.324	3.453	12.6	0.5	NO		NO	bb
8	8 180130M2_9	Standard	12.500	2.93	4656.155	14090.640	4.131	15.0	20.2	NO		NO	bb
9	9 180130M2_10	Standard	12.500	2.93	5277.693	13488.114	4.891	17.8	42.3	NO		NO	bb
10	10 180130M2_11	Standard	12.500	2.93	7300.226	12163.914	7.502	27.3	118.3	NO		NO	bbX

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:02:09 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 08:59:53

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_2, Date: 30-Jan-2018, Time: 11:44:38, ID: ST180130M2-1 PFC CS-2 18A1904, Description: PFC CS-2 18A1904

#	Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9987	NO	
2	2 PFPeA	0.9997	NO	
3	3 PFBS	0.9996	NO	
4	4 4:2 FTS	0.9986	NO	
5	5 PFHxA	0.9991	NO	
6	6 PFPeS	0.9985	NO	
7	7 PFHpA	0.9938	NO	
8	8 L-PFHxS	0.9975	NO	
9	10 6:2 FTS	0.9990	NO	
10	11 L-PFOA	0.9996	NO	
11	13 PFHpS	0.9982	NO	
12	14 PFNA	0.9983	NO	
13	15 PFOSA	0.9949	NO	
14	16 L-PFOS	0.9992	NO	
15	18 PFDA	0.9980	NO	
16	19 8:2 FTS	0.9941	NO	
17	20 PFNS	0.9989	NO	
18	21 N-MeFOSAA	0.9989	NO	
19	22 N-EtFOSAA	0.9989	NO	
20	23 PFUdA	0.9993	NO	
21	24 PFDS	0.9986	NO	
22	25 PFDoA	0.9976	NO	
23	26 N-MeFOSA	0.9950	NO	
24	27 PFTrDA	0.9984	NO	
25	28 PFTeDA	0.9987	NO	
26	29 N-EtFOSA	0.9994	NO	
27	30 PFHxDA	0.9996	NO	
28	31 PFODA	0.9960	NO	
29	32 N-MeFOSE	0.9928	NO	
30	33 N-EtFOSE	0.9922	NO	
31	34 13C3-PFBA		NO	4.005

Dataset: Untitled

Last Altered: Wednesday, January 31, 2018 10:09:07 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:09:21 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 09:53:30

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180130M2_1	IPA	30-Jan-18	11:33:07
2	180130M2_2	ST180130M2-1 PFC CS-2 18A1904	30-Jan-18	11:44:38
3	180130M2_3	ST180130M2-2 PFC CS-1 18A1905	30-Jan-18	11:56:07
4	180130M2_4	ST180130M2-3 PFC CS0 18A1906	30-Jan-18	12:07:36
5	180130M2_5	ST180130M2-4 PFC CS1 18A1907	30-Jan-18	12:19:06
6	180130M2_6	ST180130M2-5 PFC CS2 18A1908	30-Jan-18	12:30:35
7	180130M2_7	ST180130M2-6 PFC CS3 18A1909	30-Jan-18	12:42:05
8	180130M2_8	ST180130M2-7 PFC CS4 18A1910	30-Jan-18	12:53:35
9	180130M2_9	ST180130M2-8 PFC CS5 18A1911	30-Jan-18	13:05:04
10	180130M2_10	ST180130M2-9 PFC CS6 18A2403	30-Jan-18	13:16:34
11	180130M2_11	ST180130M2-10 PFC CS7 18A2404	30-Jan-18	13:28:04
12	180130M2_12	IPA	30-Jan-18	13:39:34
13	180130M2_13	ICV180130M2-1 PFC ICV 18A1903	30-Jan-18	13:51:03
14	180130M2_14	IPA	30-Jan-18	14:02:33

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 08:59:53

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

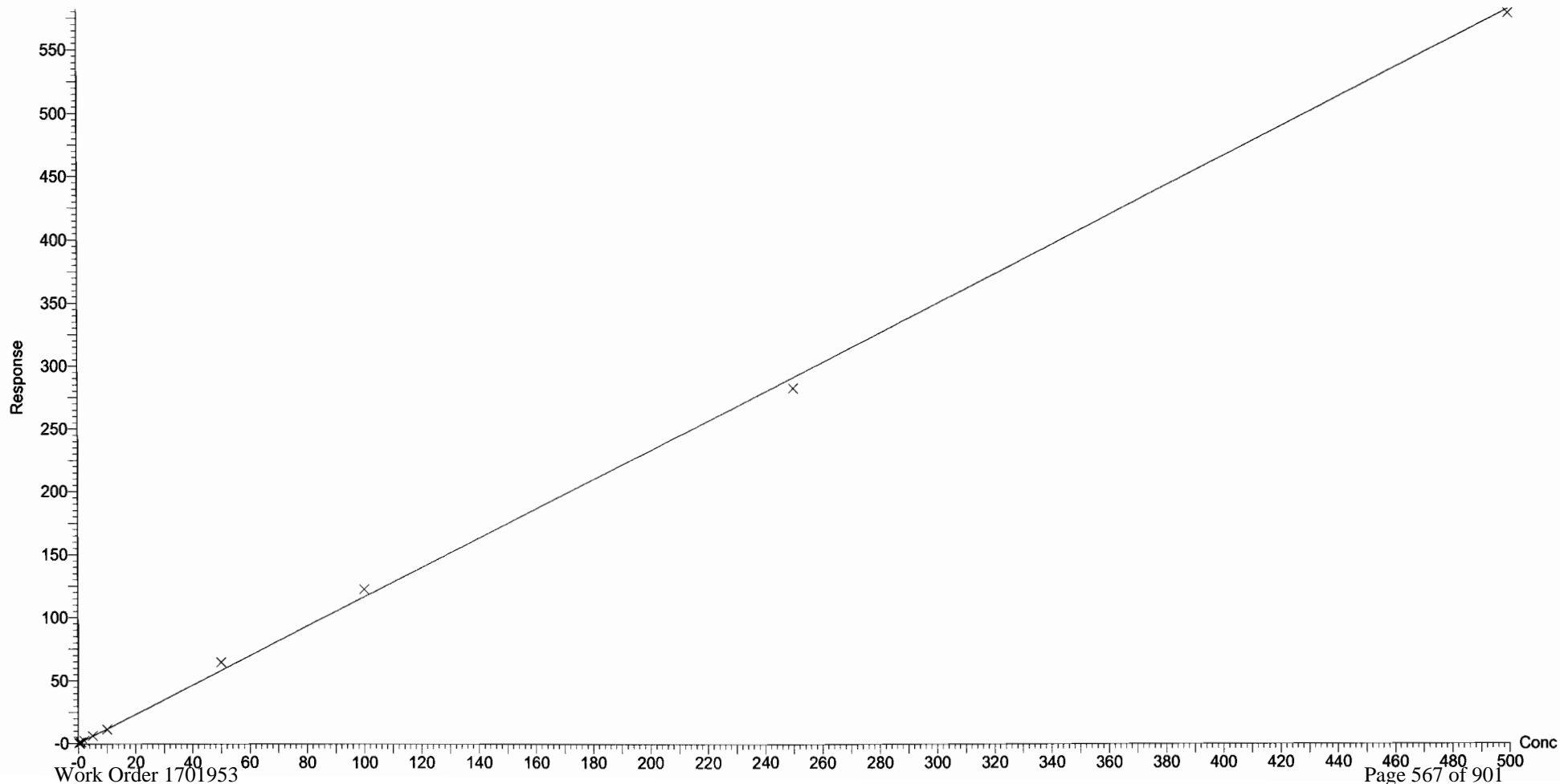
Compound name: PFBA

Correlation coefficient: $r = 0.999349$, $r^2 = 0.998699$

Calibration curve: $1.16442 * x + -0.0439979$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

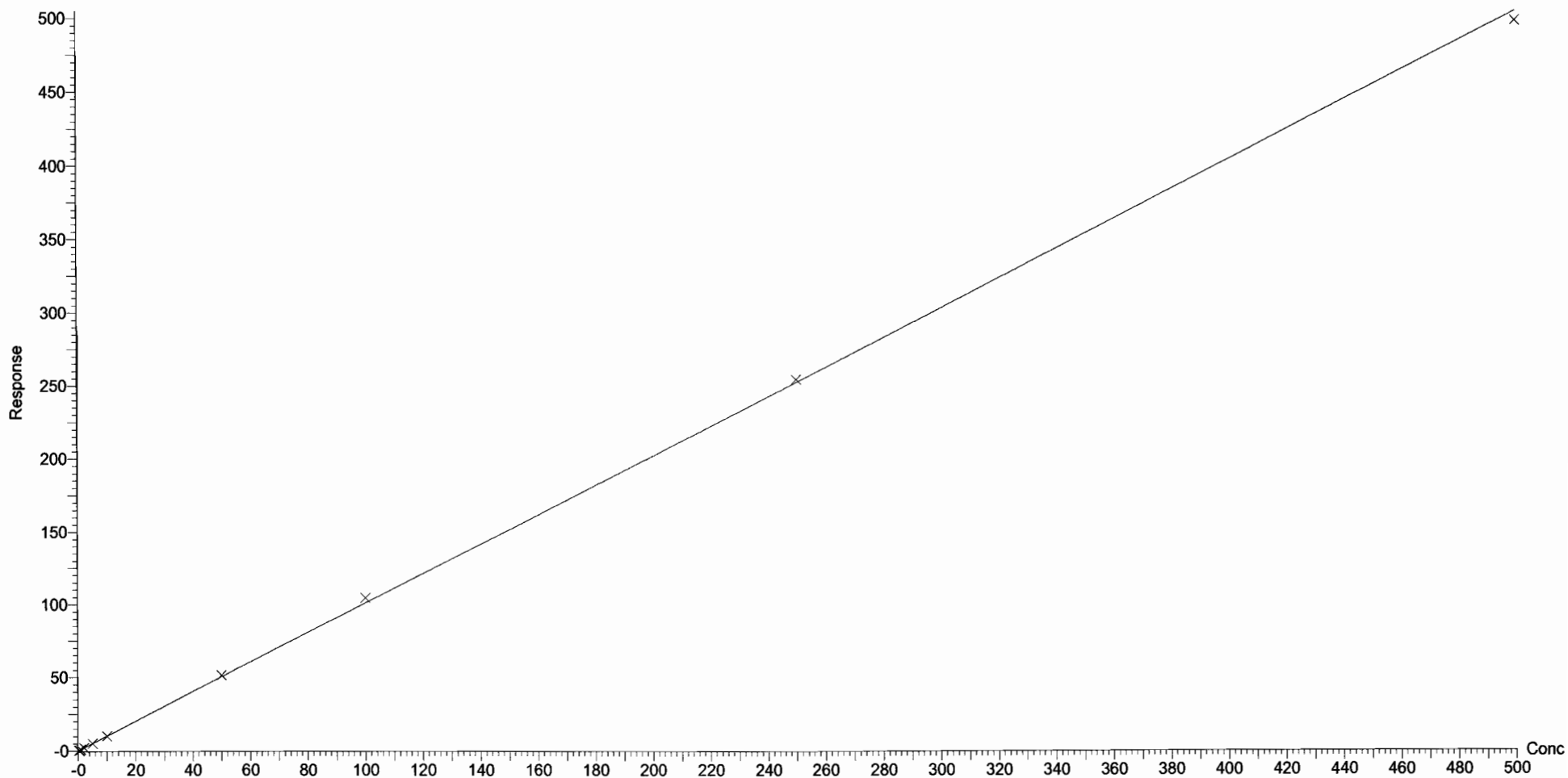
Compound name: PFPeA

Correlation coefficient: $r = 0.999864$, $r^2 = 0.999727$

Calibration curve: $1.00957 * x + 0.0379804$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

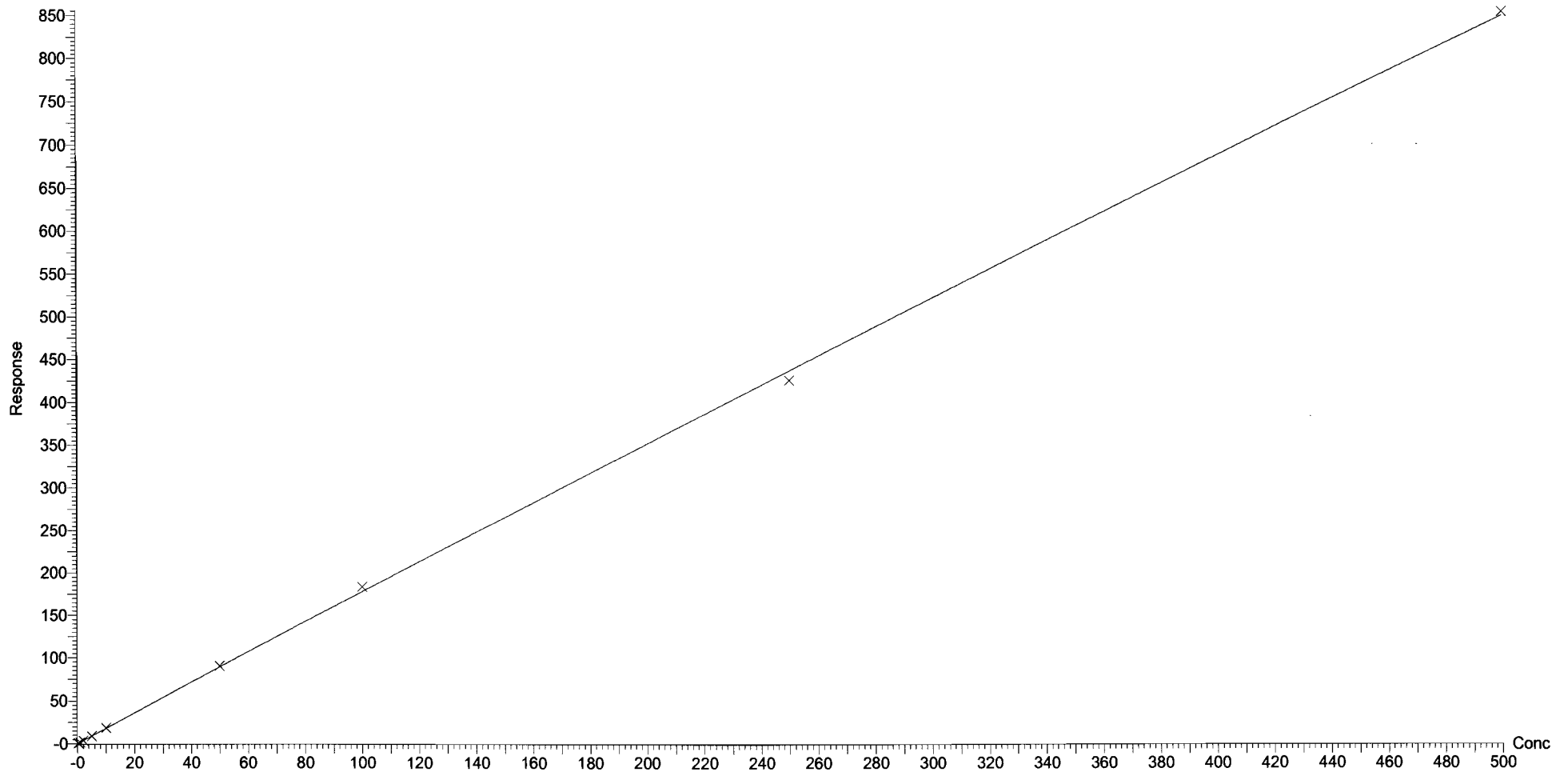
Compound name: PFBS

Coefficient of Determination: $R^2 = 0.999648$

Calibration curve: $-0.000192588 * x^2 + 1.79867 * x + 0.0797843$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

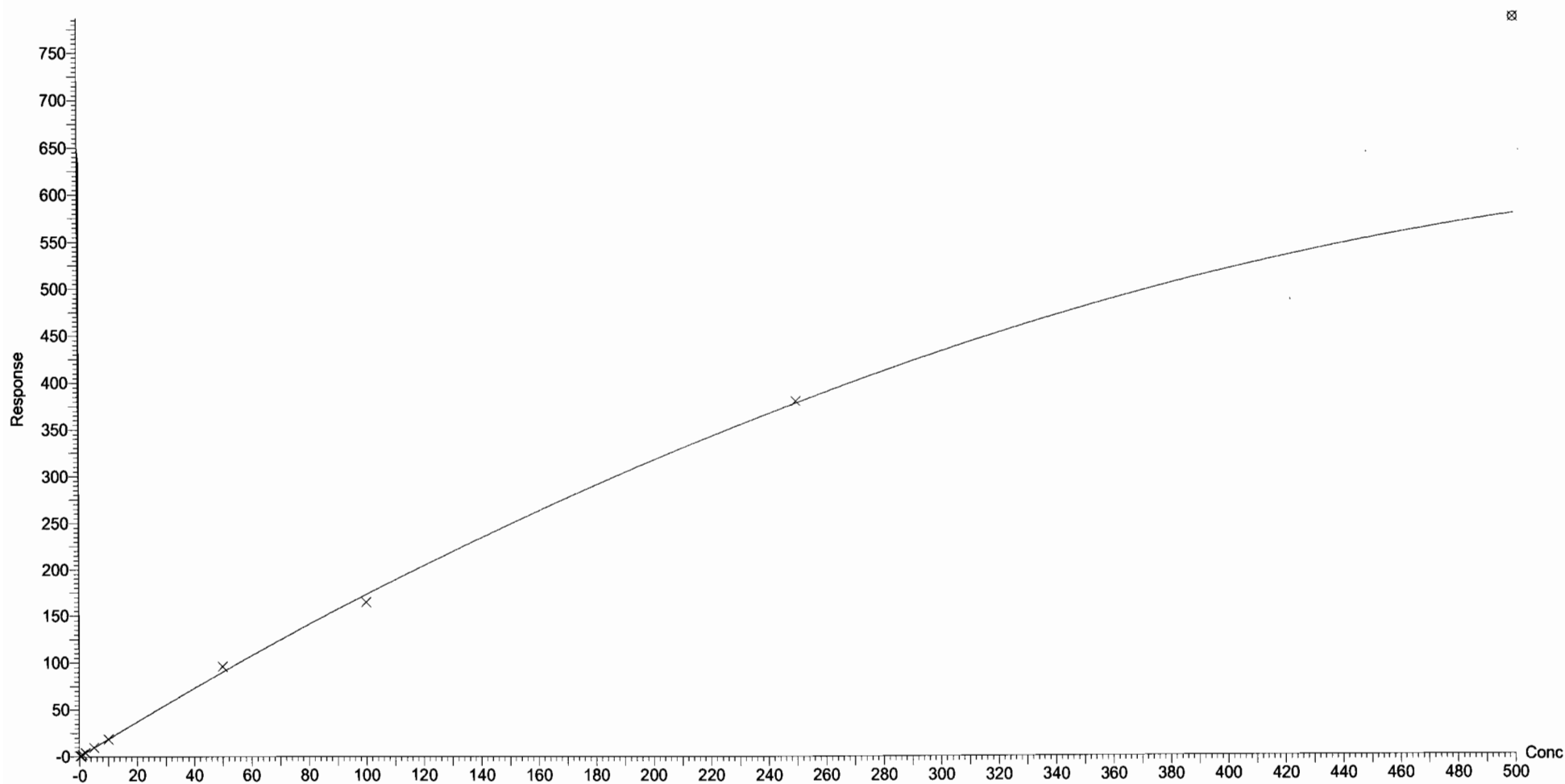
Compound name: 4:2 FTS

Coefficient of Determination: $R^2 = 0.998629$

Calibration curve: $-0.00142534 * x^2 + 1.86892 * x + 0.00922081$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

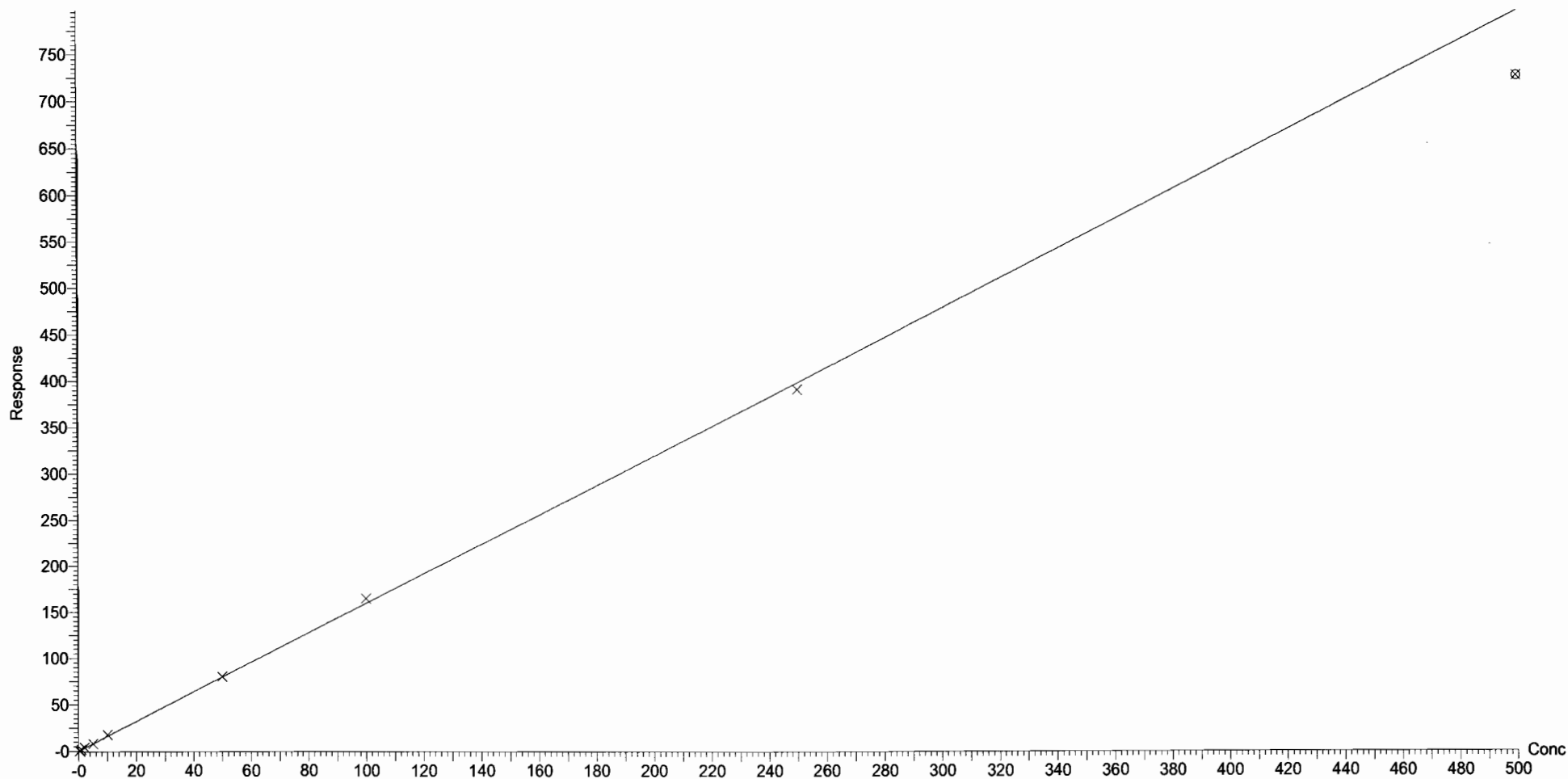
Compound name: PFHxA

Correlation coefficient: $r = 0.999536$, $r^2 = 0.999072$

Calibration curve: $1.59305 * x + 0.154027$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

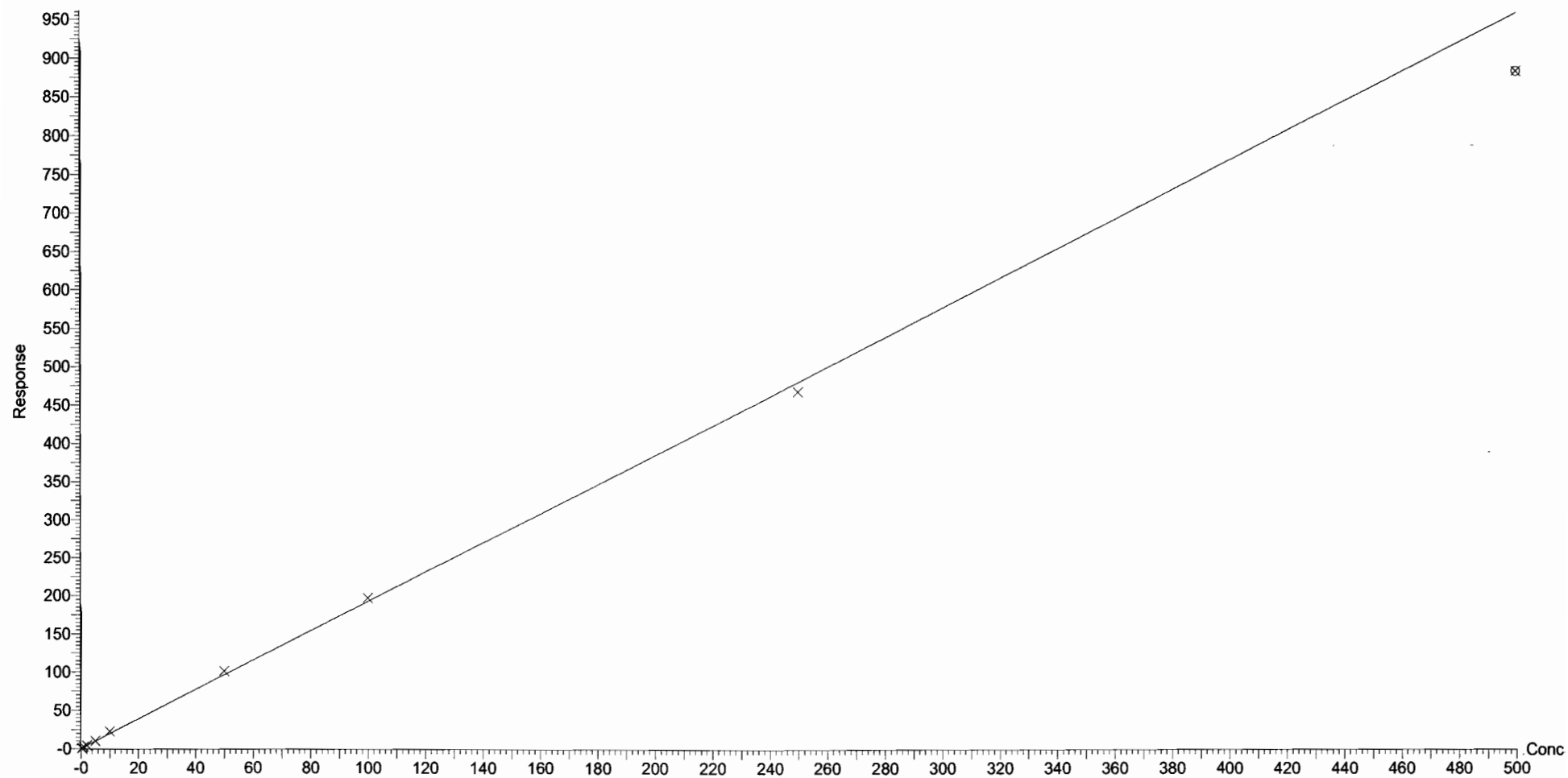
Compound name: PFPeS

Correlation coefficient: $r = 0.999248$, $r^2 = 0.998497$

Calibration curve: $1.92186 * x + 0.239017$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

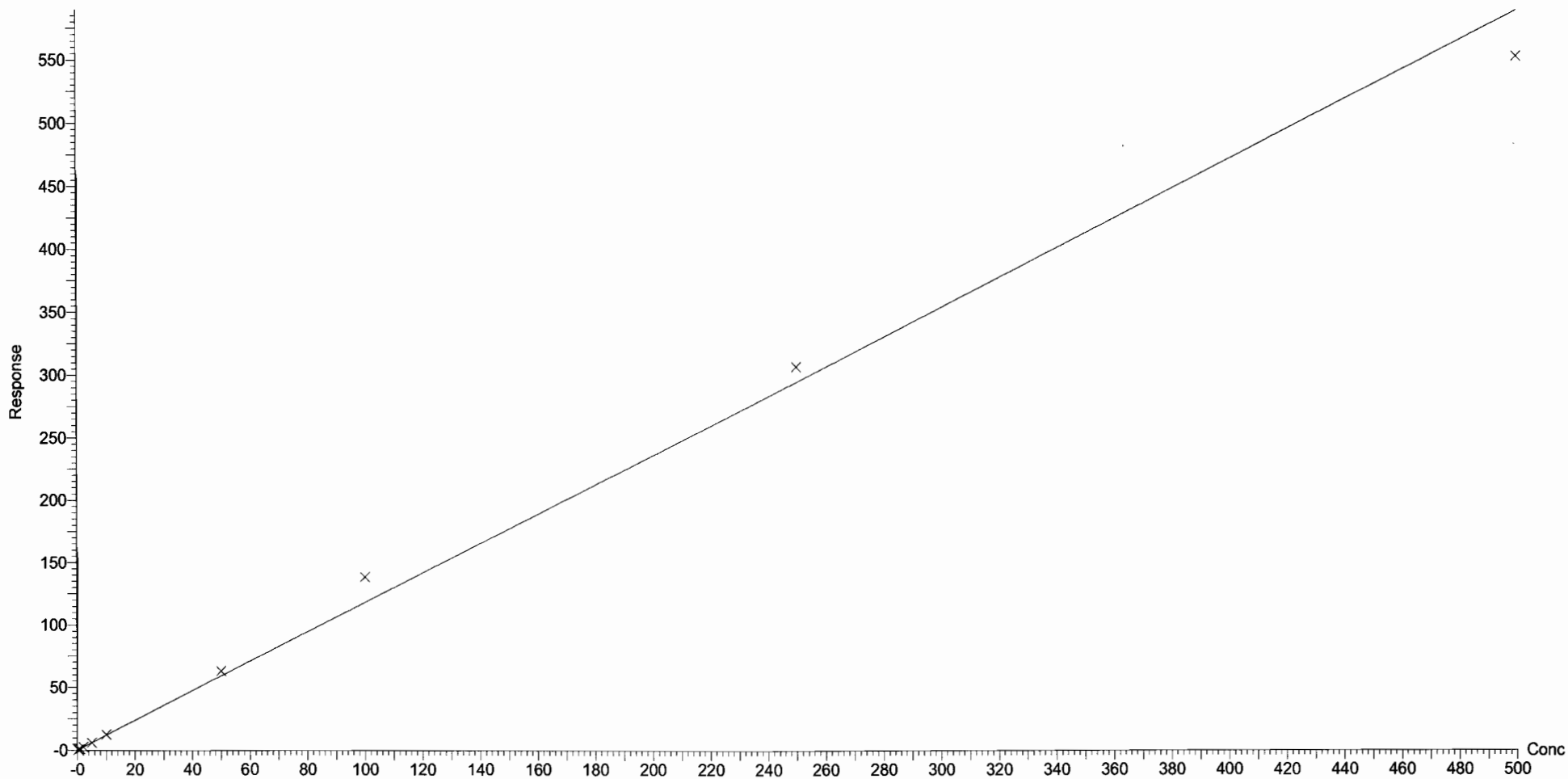
Compound name: PFHpA

Correlation coefficient: $r = 0.996911$, $r^2 = 0.993832$

Calibration curve: $1.17843 * x + 0.12989$

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

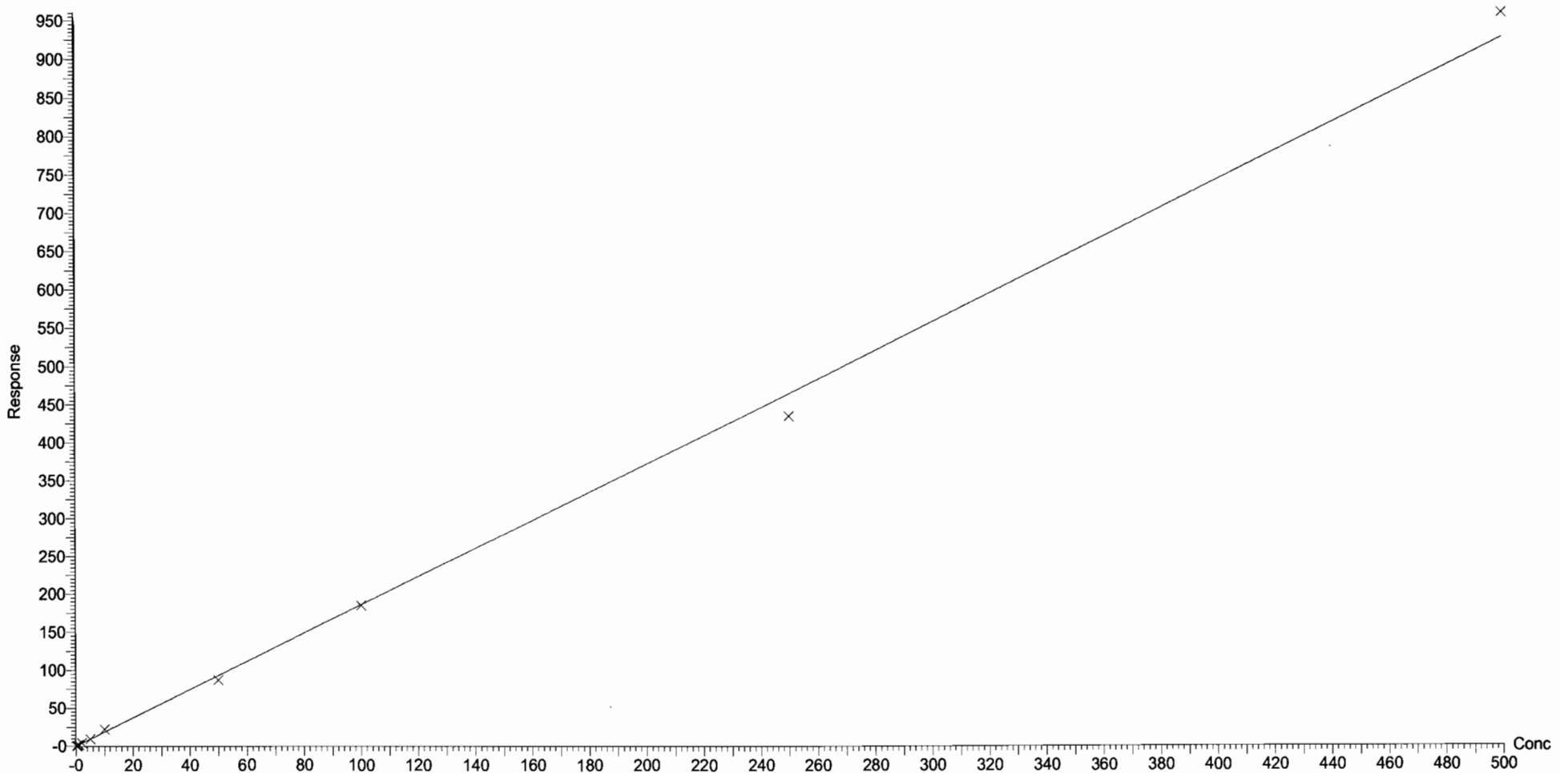
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

Compound name: L-PFHxS
Correlation coefficient: $r = 0.998763$, $r^2 = 0.997528$
Calibration curve: $1.85703 * x + 0.0178379$
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.998989$

Calibration curve: $-3.58558e-005 * x^2 + 0.231183 * x + 0.00652079$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

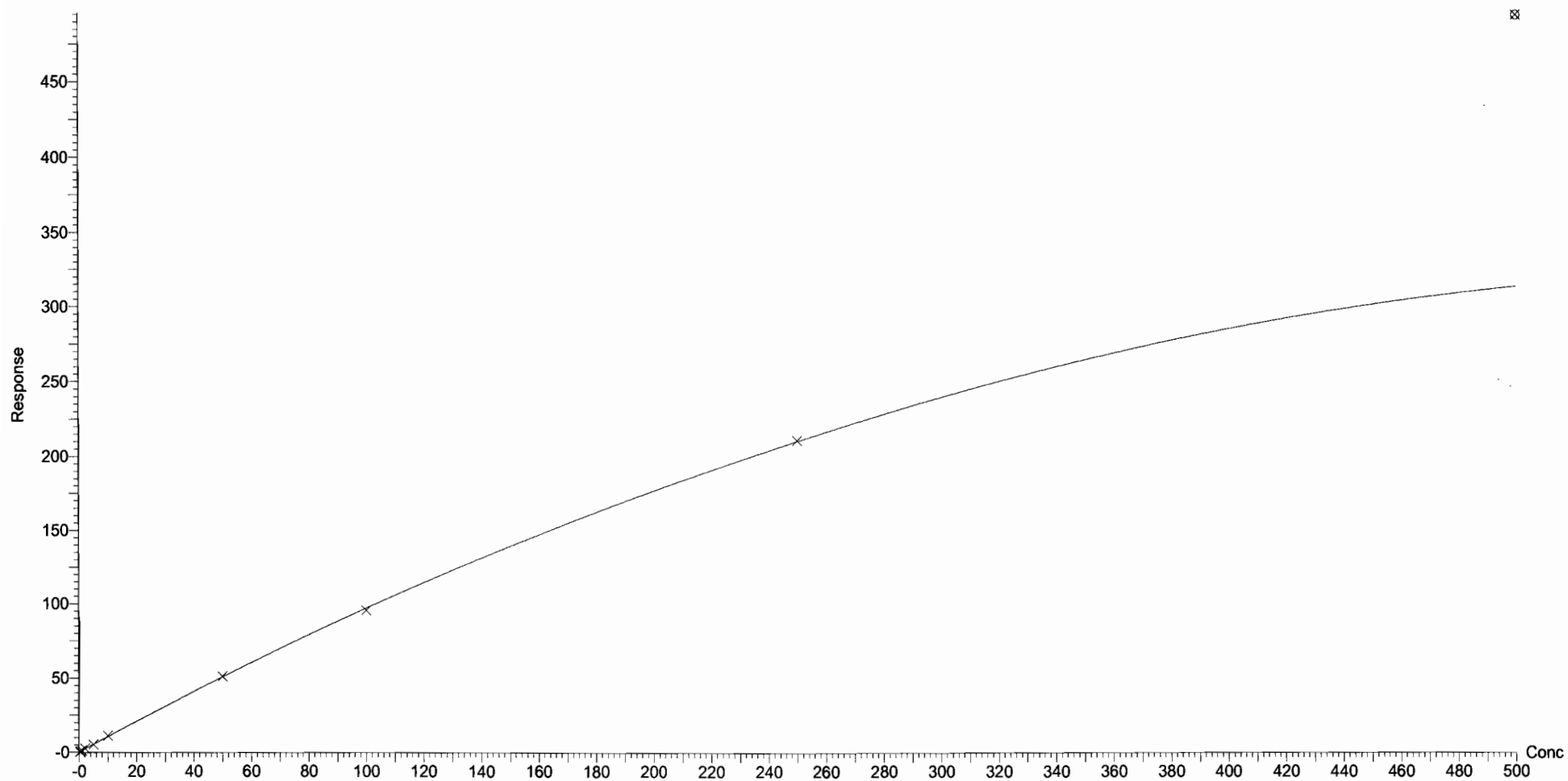
Compound name: L-PFOA

Coefficient of Determination: $R^2 = 0.999566$

Calibration curve: $-0.000857391 * x^2 + 1.05615 * x + 0.0717082$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

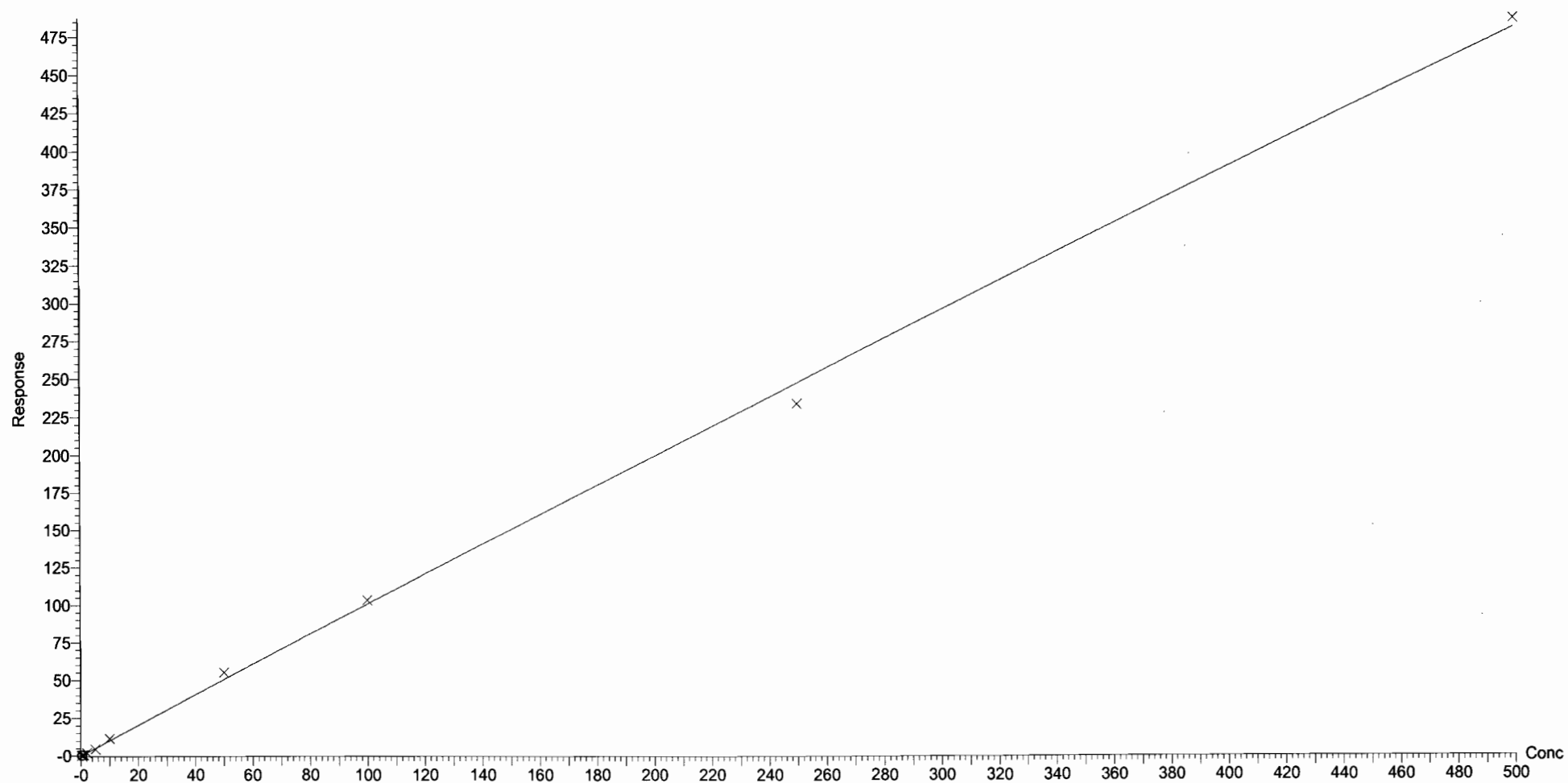
Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.998172$

Calibration curve: $-0.000111162 * x^2 + 1.01876 * x + -0.0937669$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

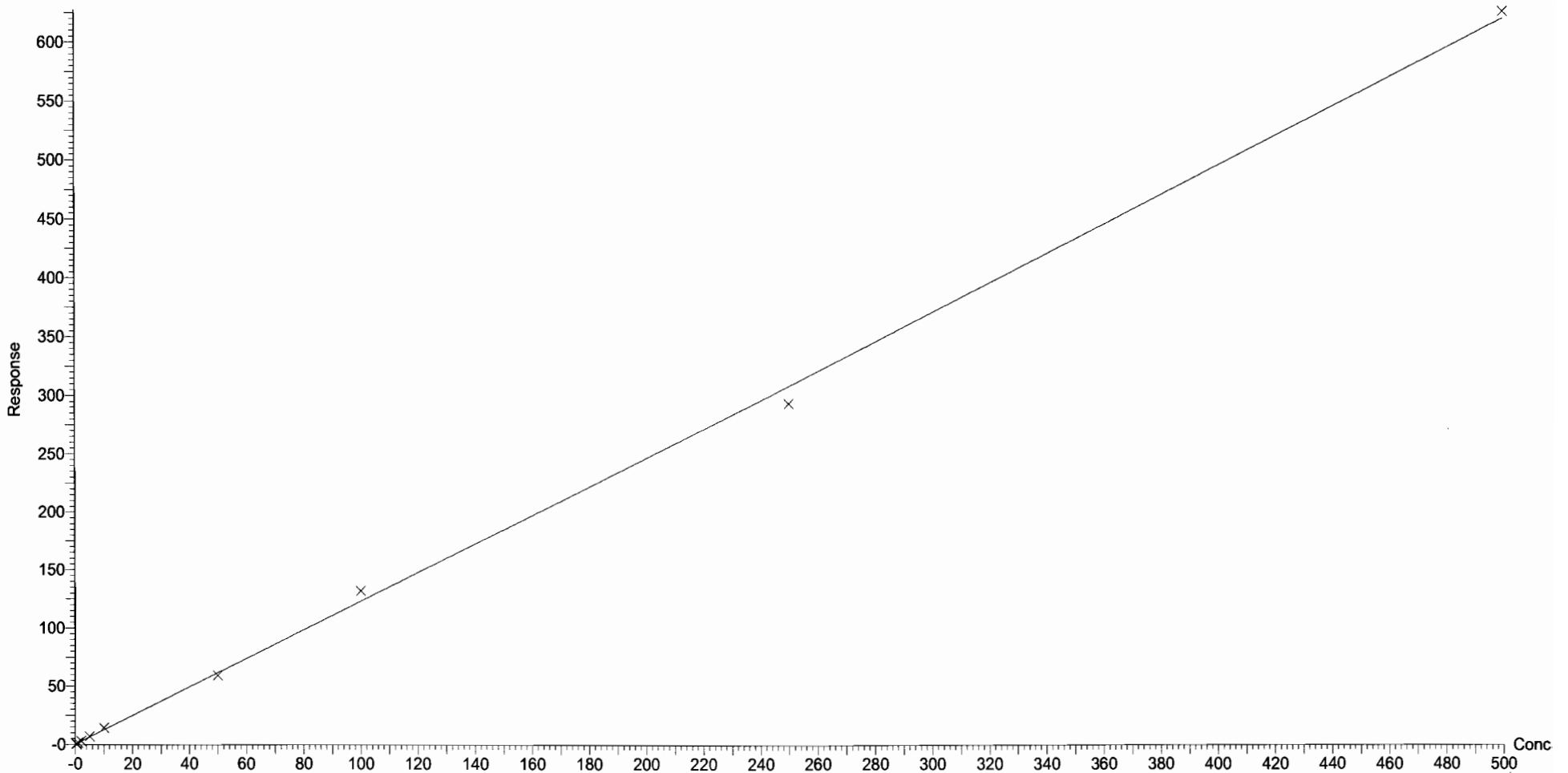
Compound name: PFNA

Coefficient of Determination: $R^2 = 0.998285$

Calibration curve: $3.72704e-005 * x^2 + 1.22337 * x + 0.164766$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

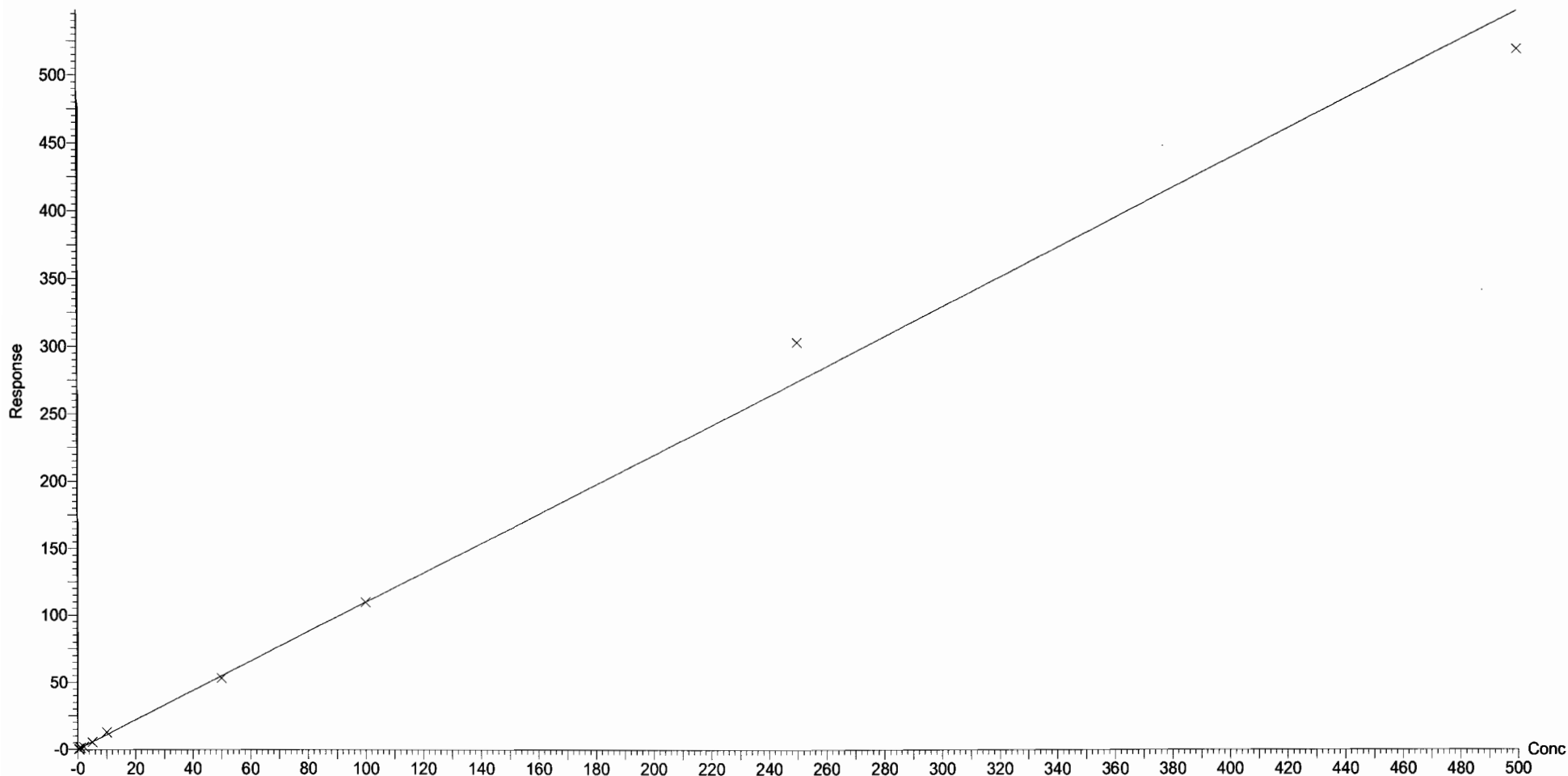
Compound name: PFOSA

Correlation coefficient: $r = 0.997452$, $r^2 = 0.994909$

Calibration curve: $1.09599 * x + -0.0345352$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

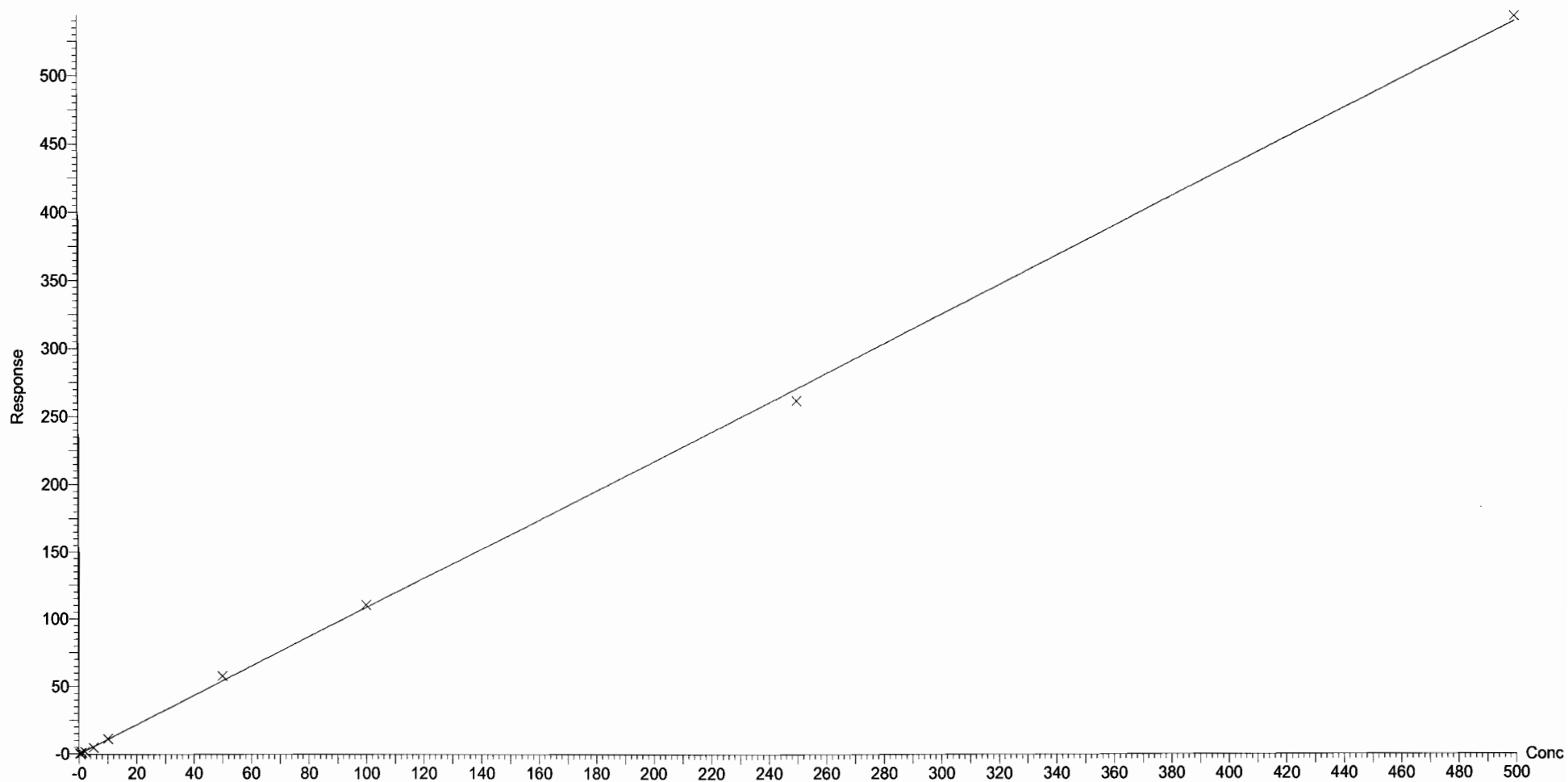
Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.999249$

Calibration curve: $-8.58479e-006 * x^2 + 1.08539 * x + -0.177739$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

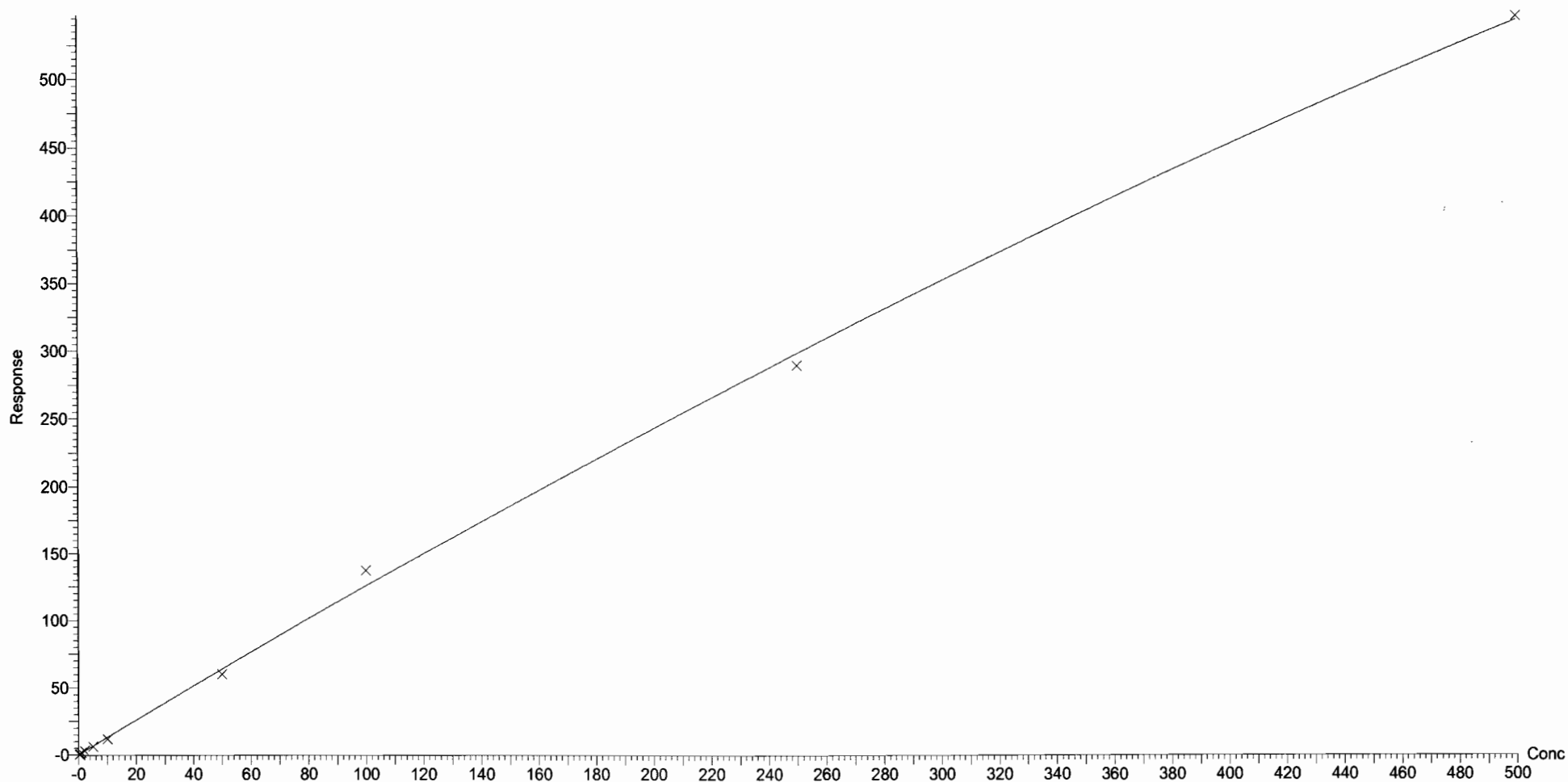
Compound name: PFDA

Coefficient of Determination: $R^2 = 0.998012$

Calibration curve: $-0.000420231 * x^2 + 1.29941 * x + 0.0888209$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

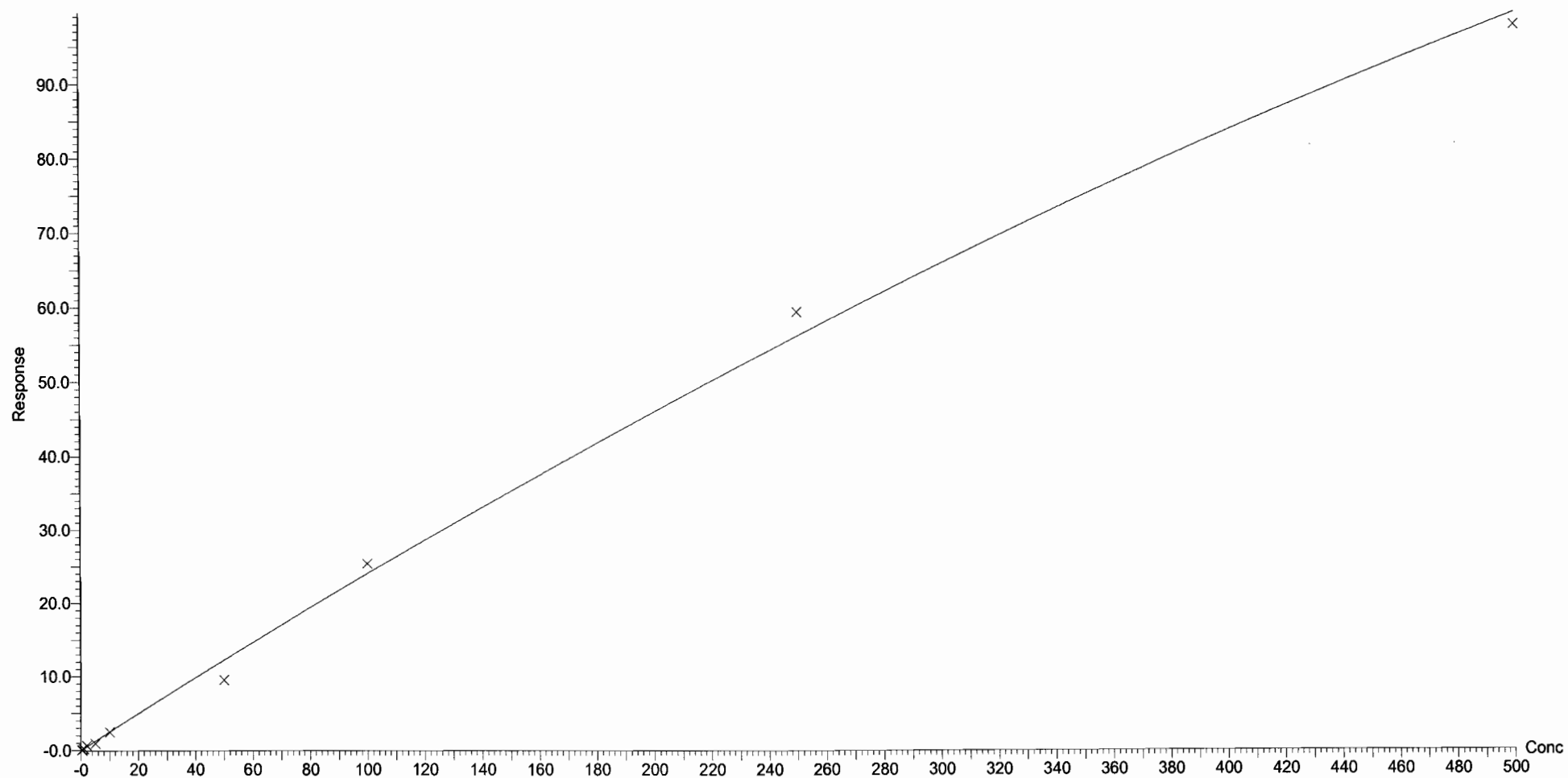
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.994120$

Calibration curve: $-0.00010241 * x^2 + 0.250291 * x + -0.0155588$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

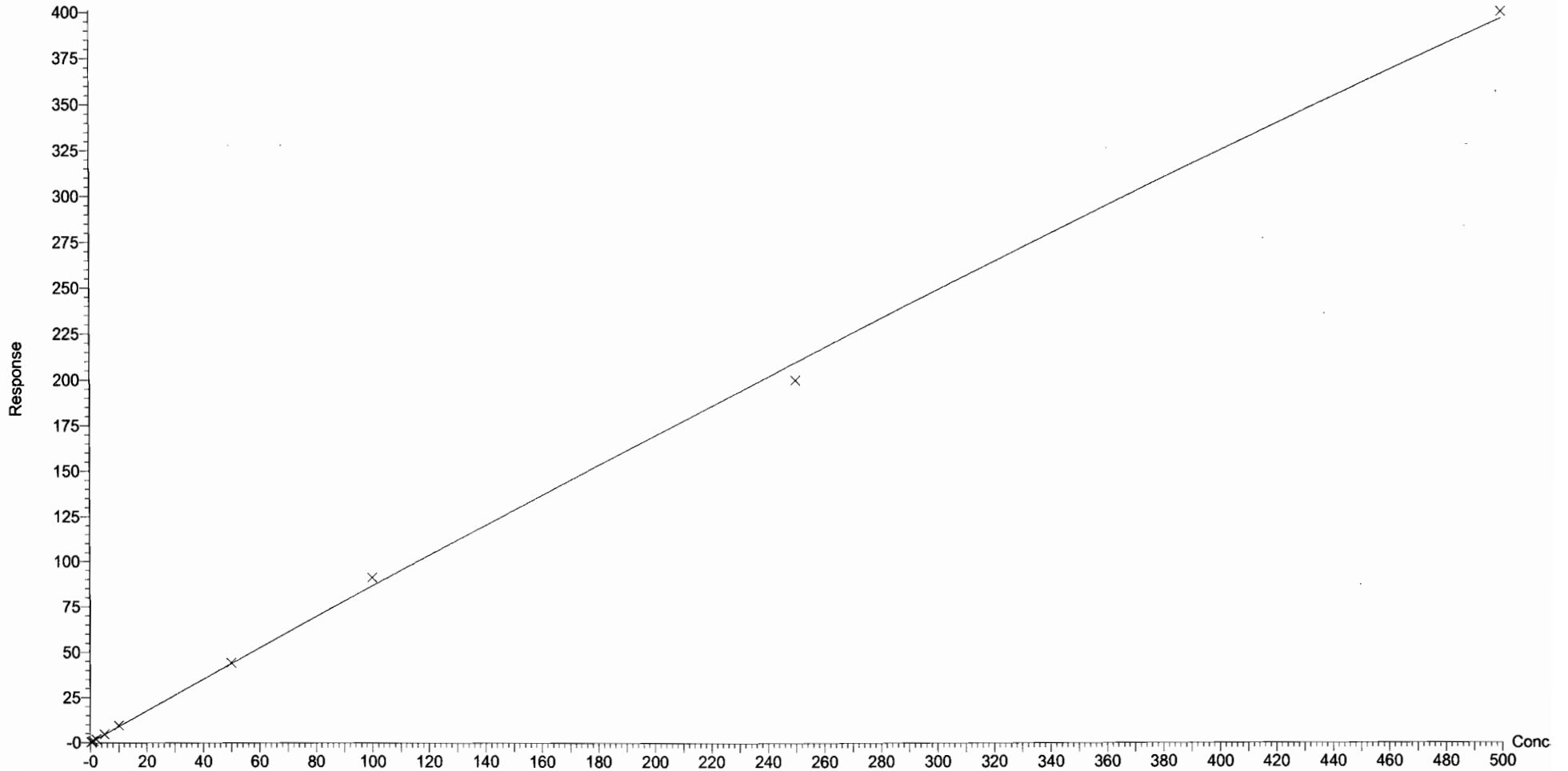
Compound name: PFNS

Coefficient of Determination: $R^2 = 0.998923$

Calibration curve: $-0.000173469 * x^2 + 0.881199 * x + 0.0764053$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

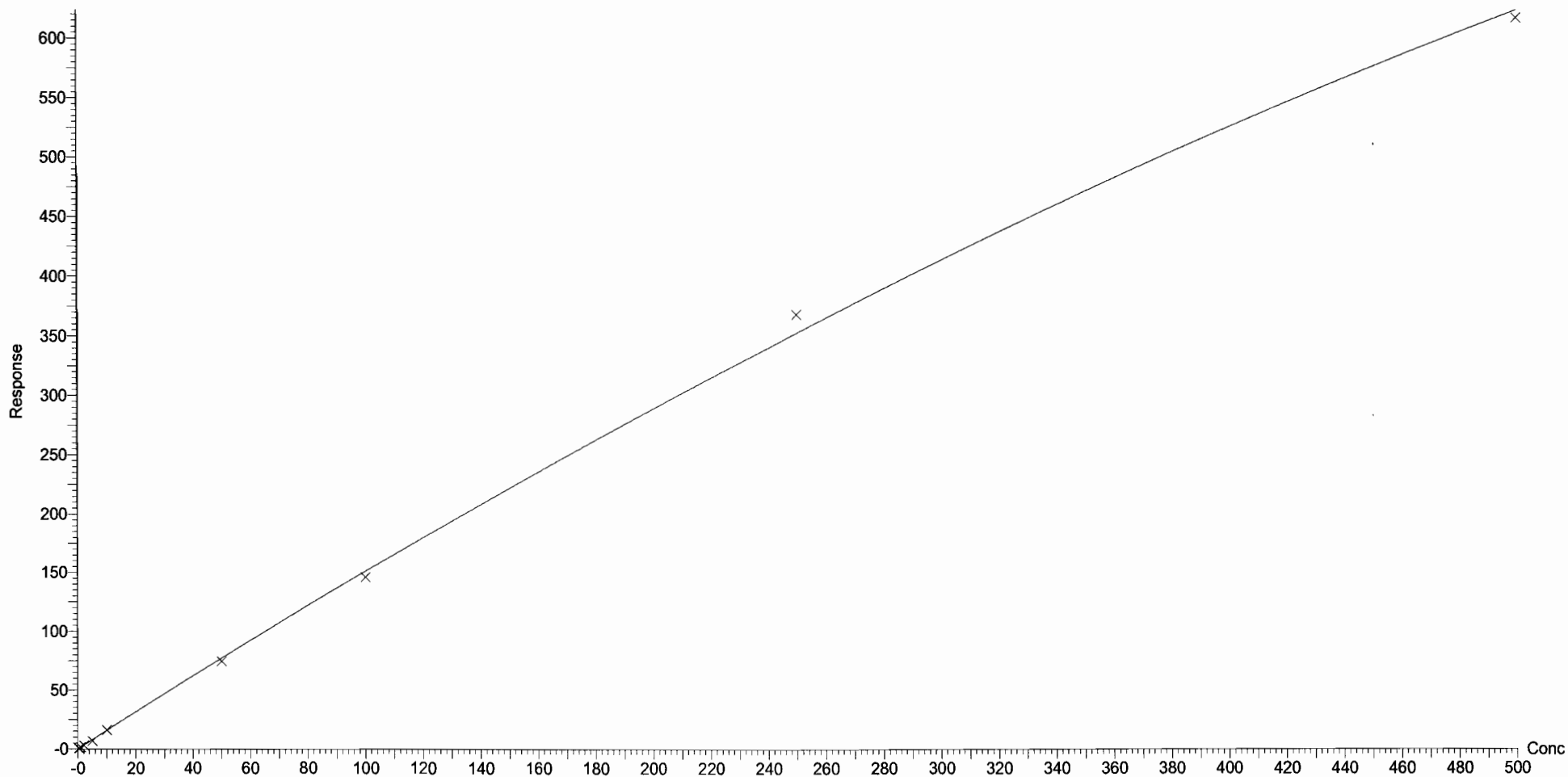
Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.998886$

Calibration curve: $-0.000656005 * x^2 + 1.57527 * x + -0.0430991$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

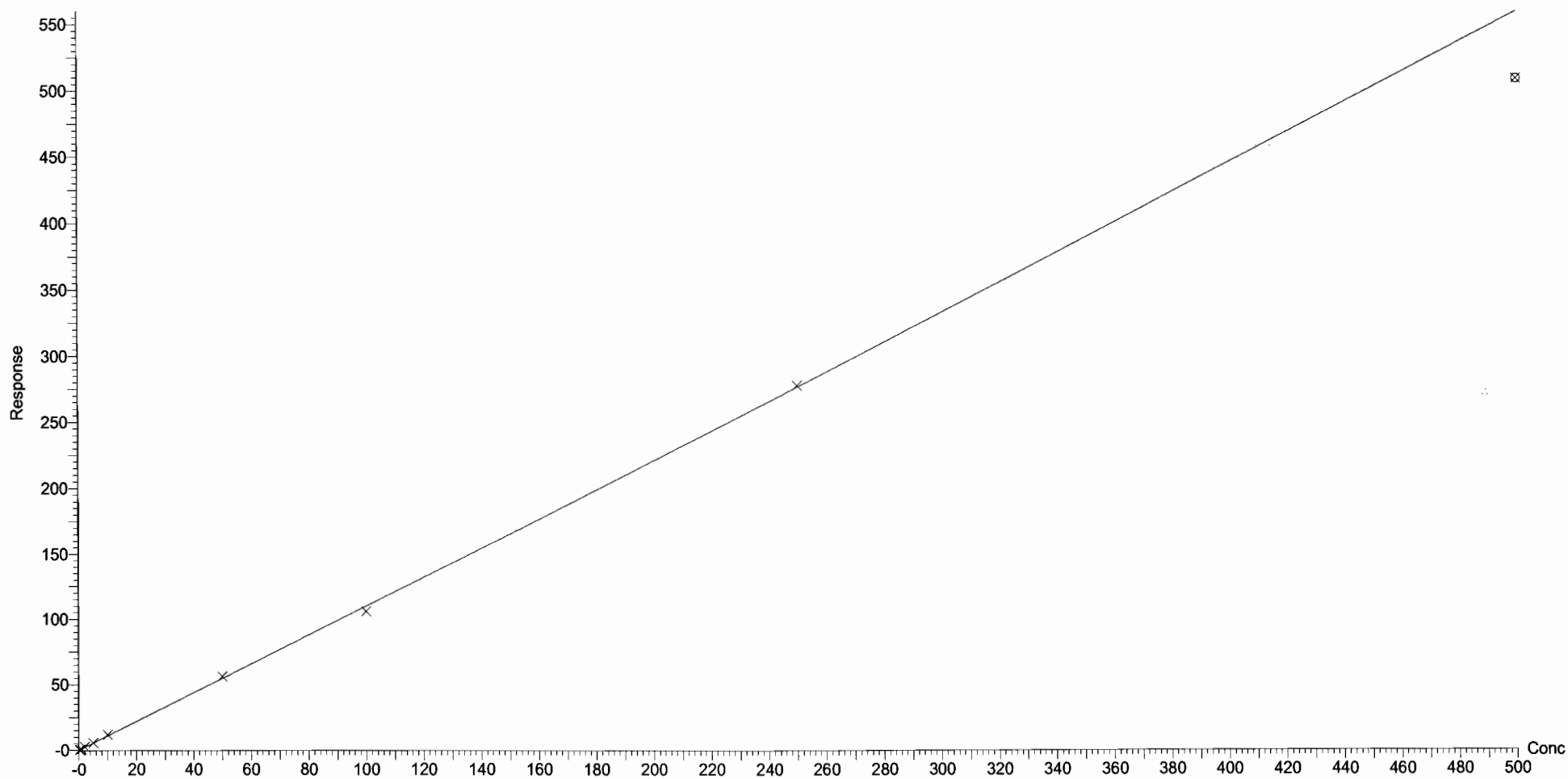
Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.998912$

Calibration curve: $5.26453e-005 * x^2 + 1.09334 * x + 0.022349$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

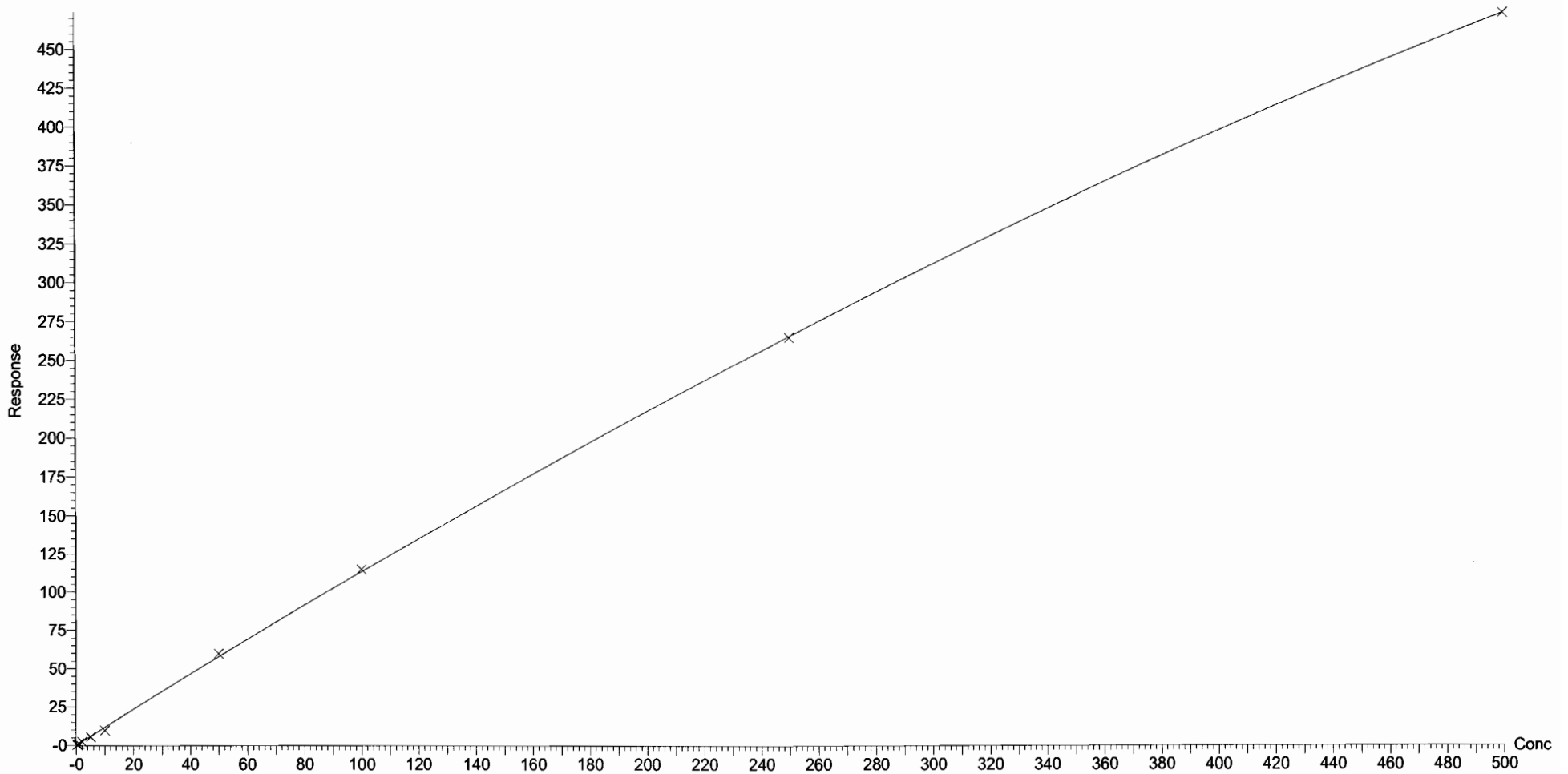
Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.999294$

Calibration curve: $-0.000458526 * x^2 + 1.17709 * x + 0.0278308$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

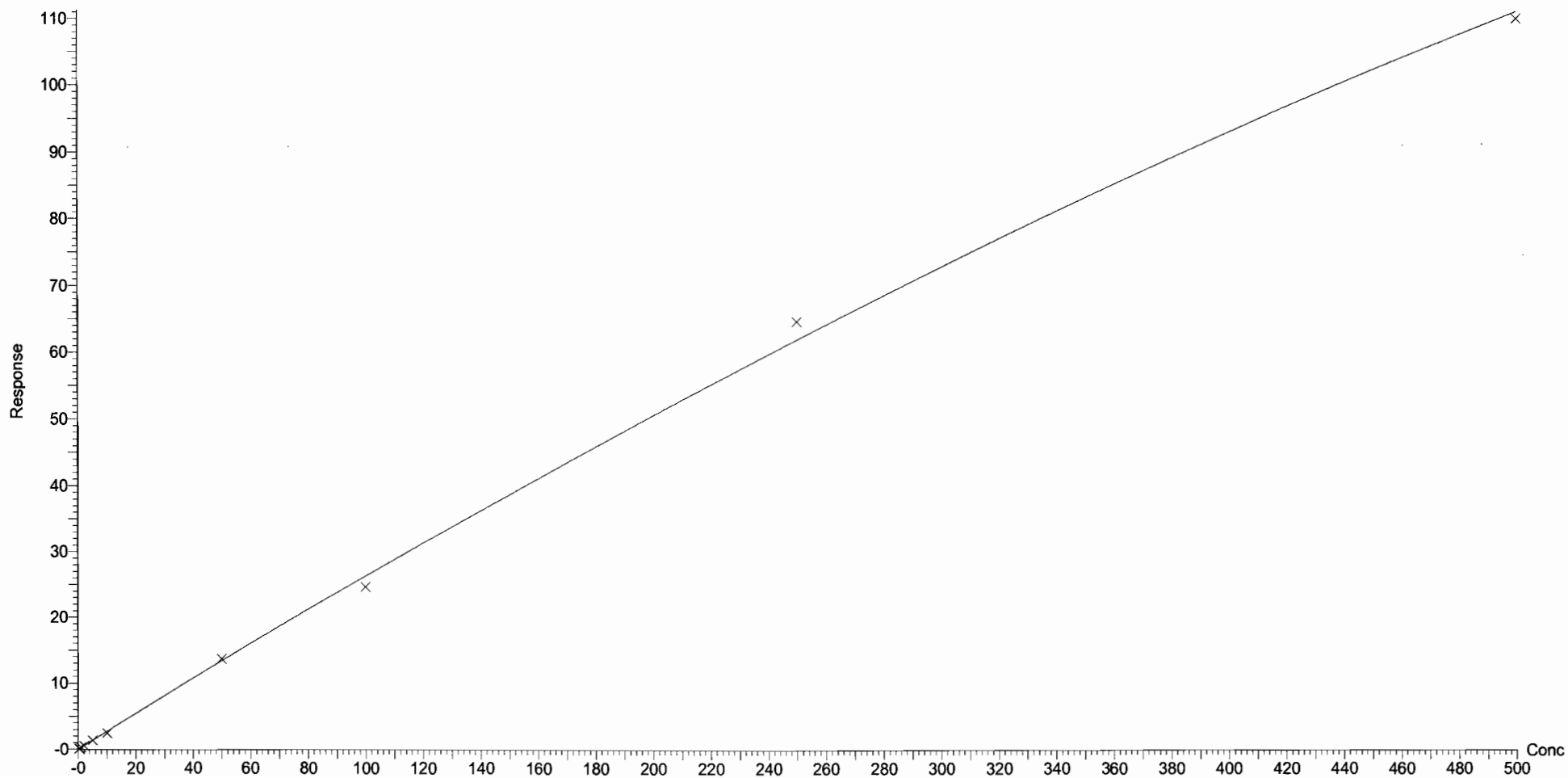
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.998560$

Calibration curve: $-0.000101601 * x^2 + 0.27335 * x + -0.0126321$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

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

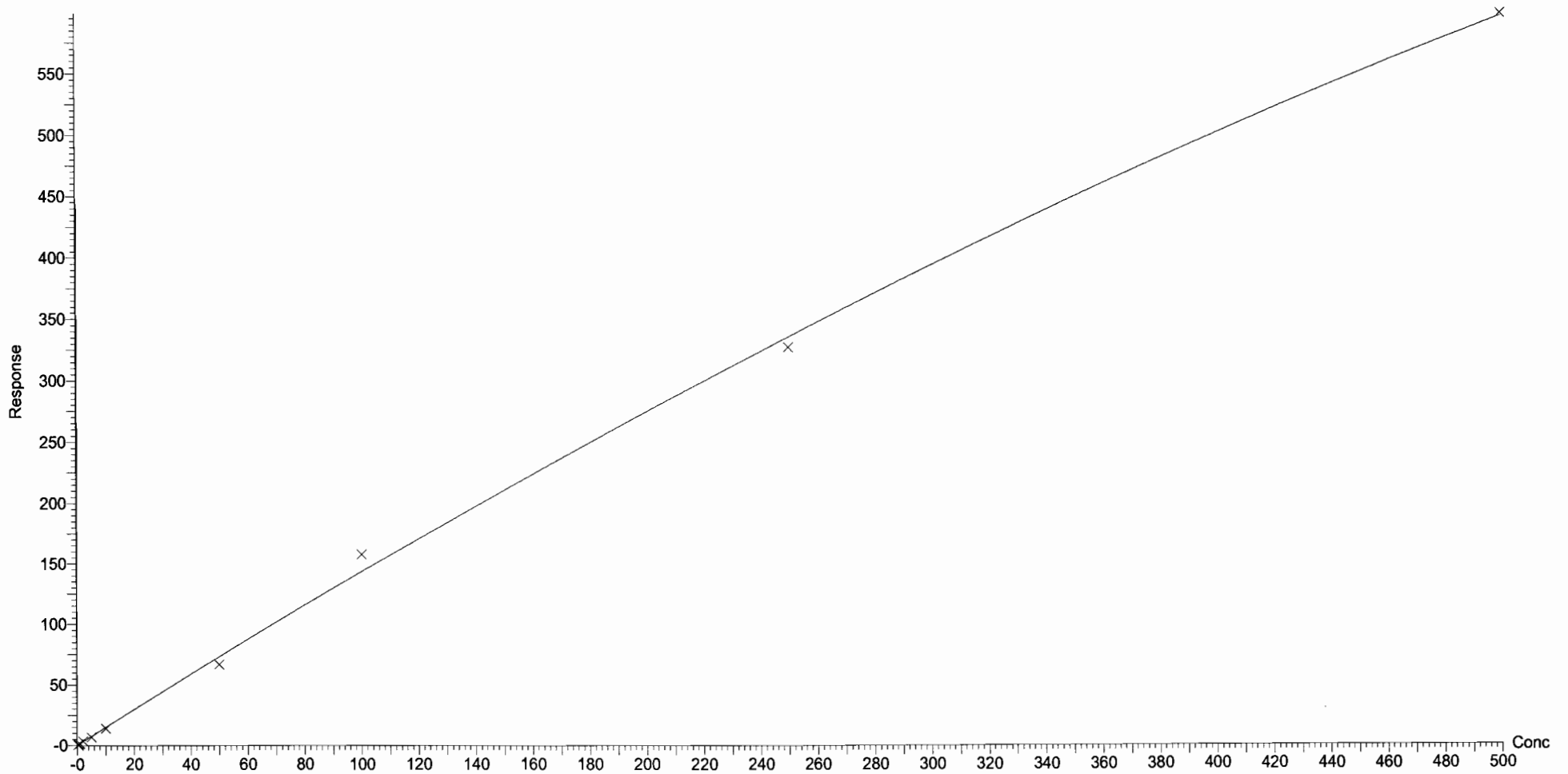


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

Compound name: PFDoA
Coefficient of Determination: $R^2 = 0.997610$
Calibration curve: $-0.000594455 * x^2 + 1.49079 * x + 0.049628$
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

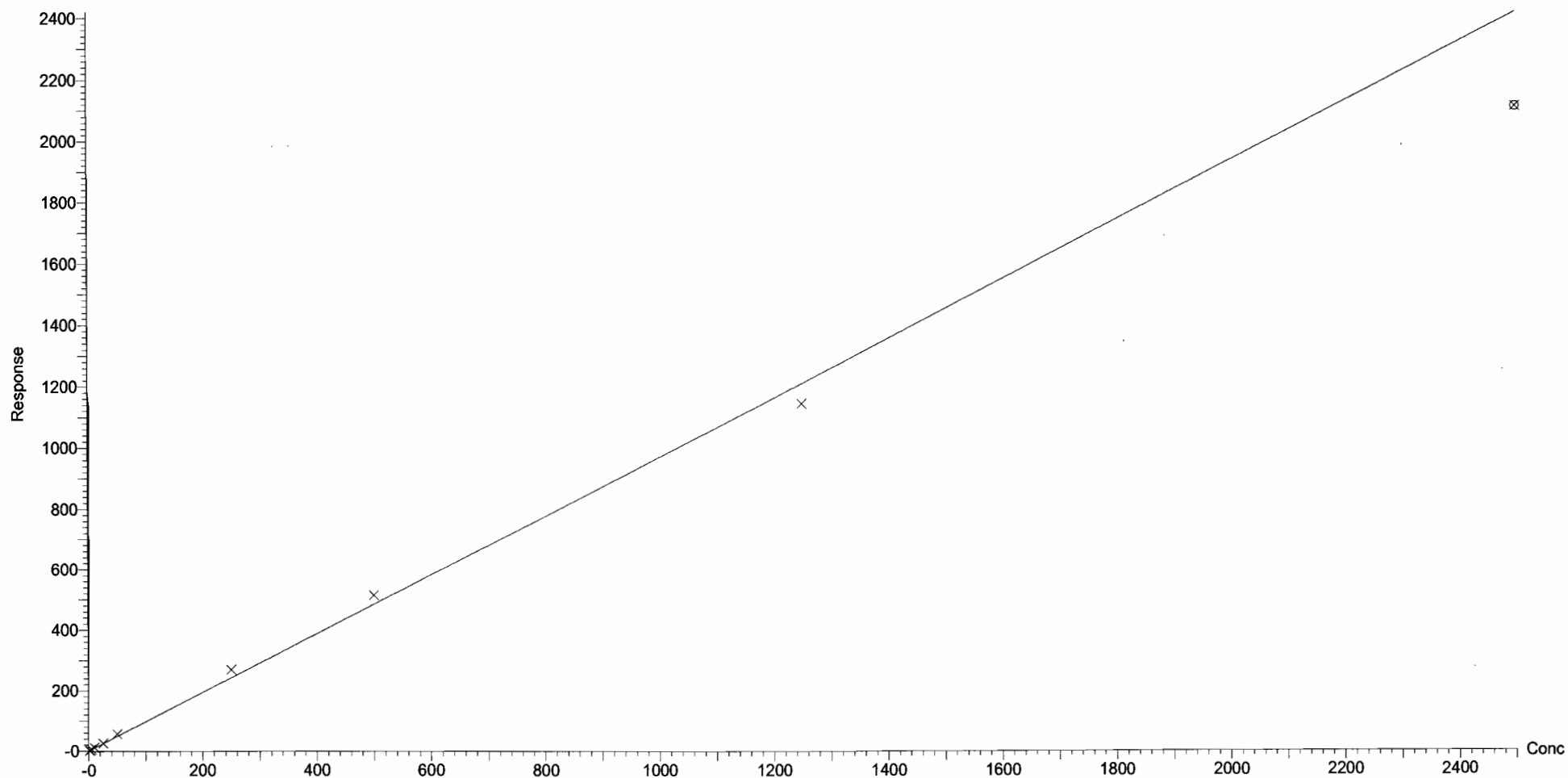
Compound name: N-MeFOSA

Correlation coefficient: $r = 0.997510$, $r^2 = 0.995026$

Calibration curve: $0.967768 * x + 0.447867$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

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

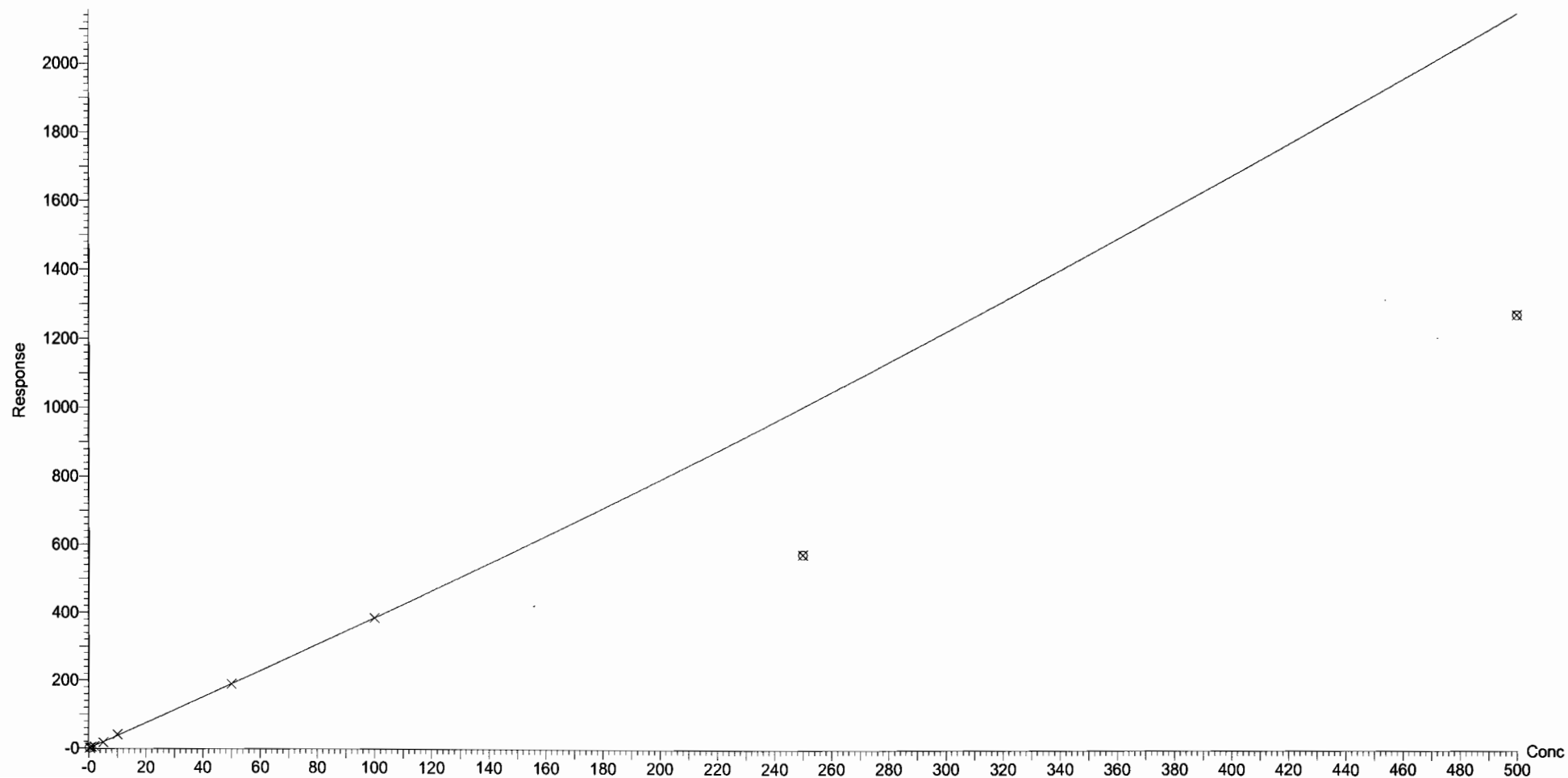


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

Compound name: PFTrDA
Coefficient of Determination: $R^2 = 0.998380$
Calibration curve: $0.00116218 * x^2 + 3.72741 * x + 0.213622$
Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

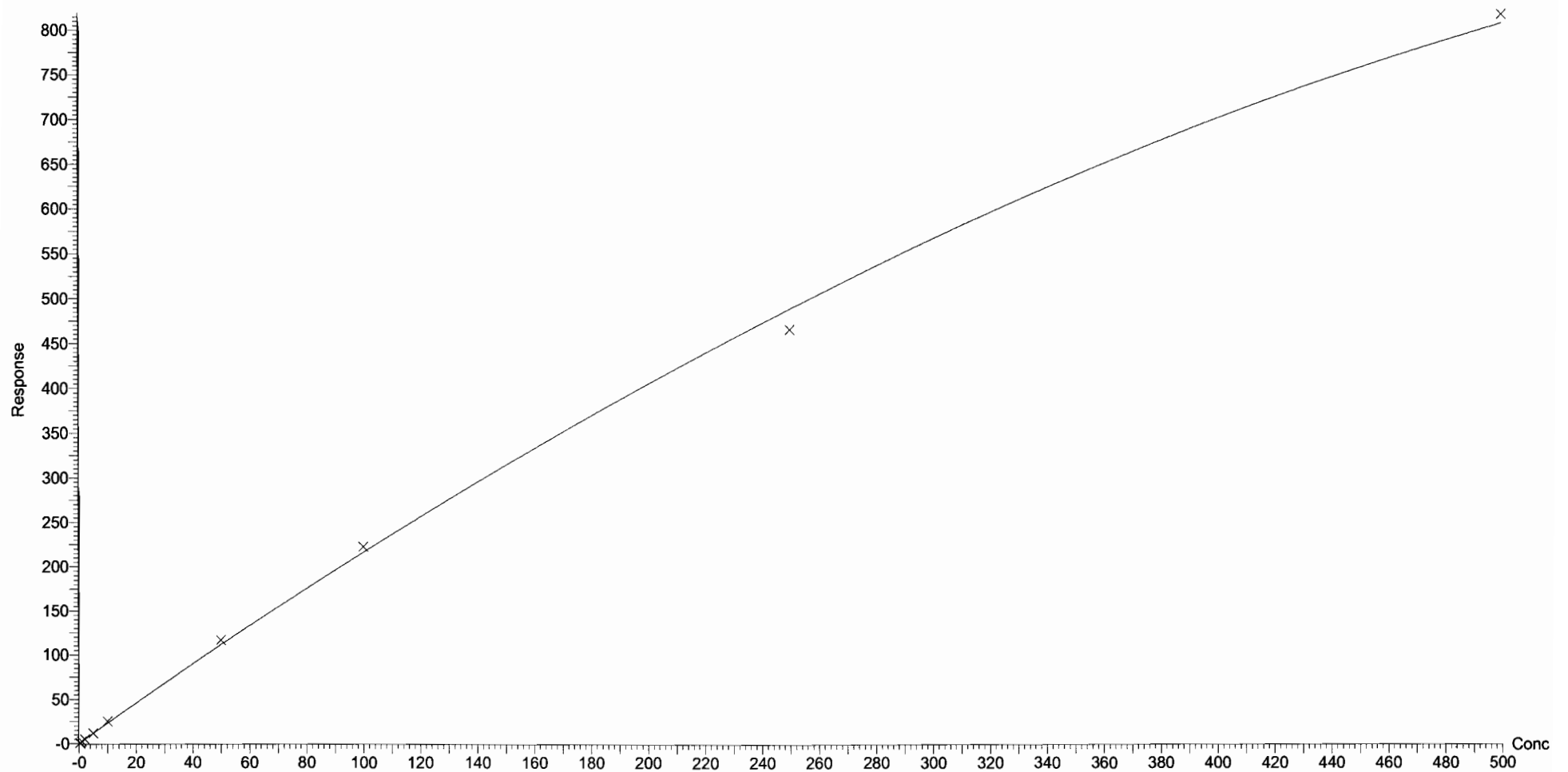
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.998712$

Calibration curve: $-0.00135735 * x^2 + 2.29654 * x + 0.279781$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

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

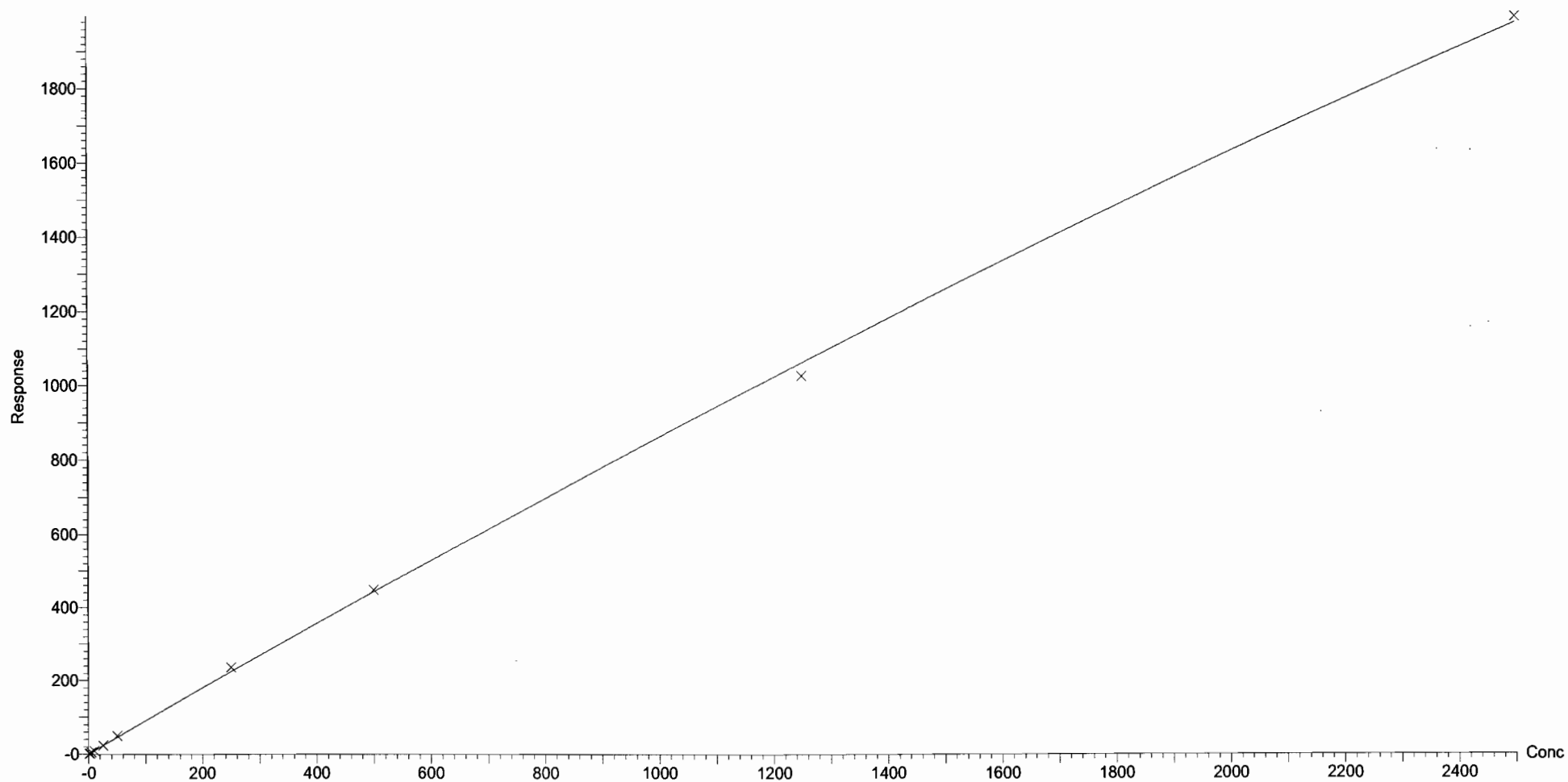


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

Compound name: N-EtFOSA
Coefficient of Determination: $R^2 = 0.999373$
Calibration curve: $-4.62743e-005 * x^2 + 0.907515 * x + 0.0608264$
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

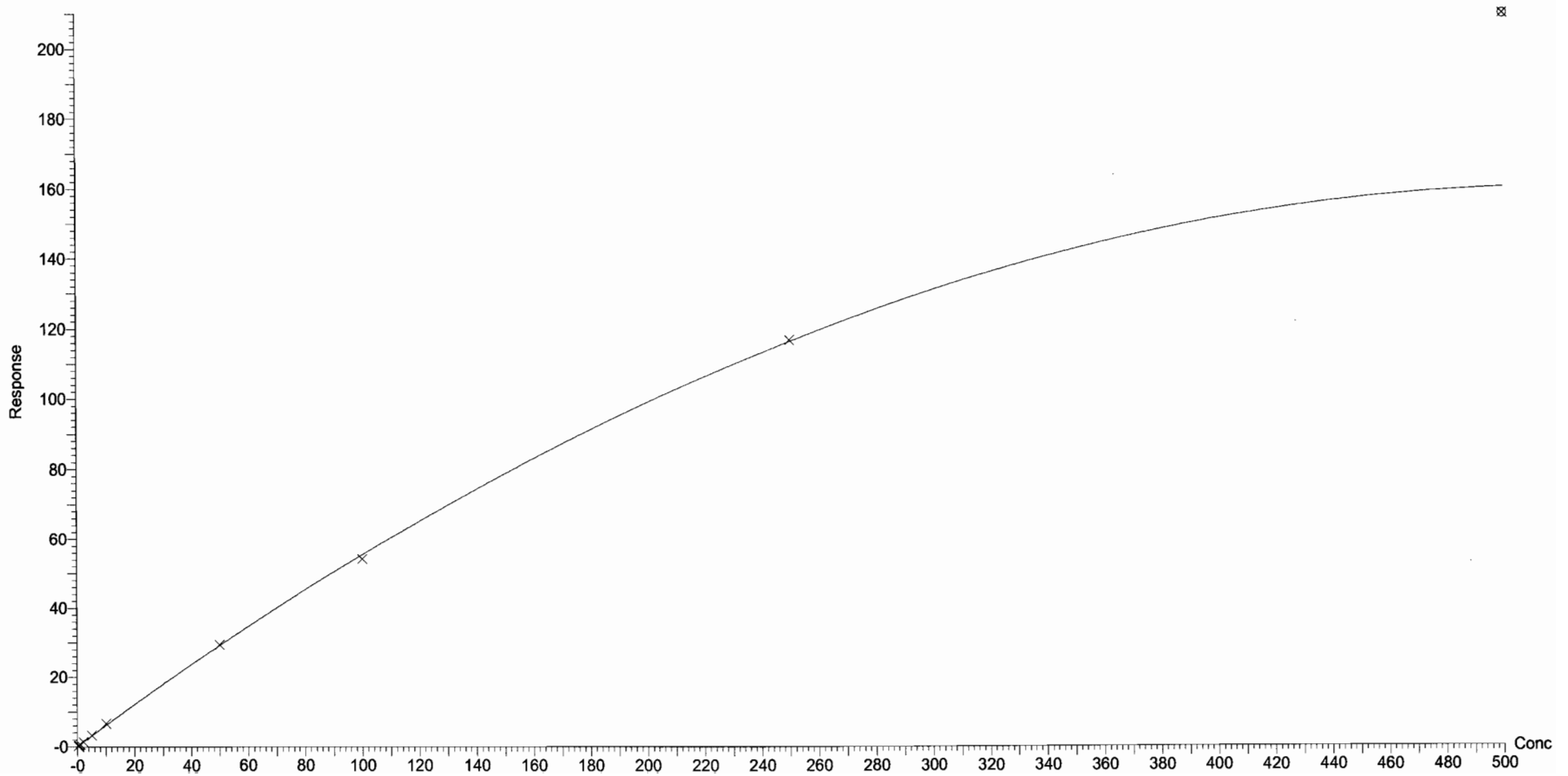
Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.999557$

Calibration curve: $-0.0005817 * x^2 + 0.611008 * x + 0.0713706$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

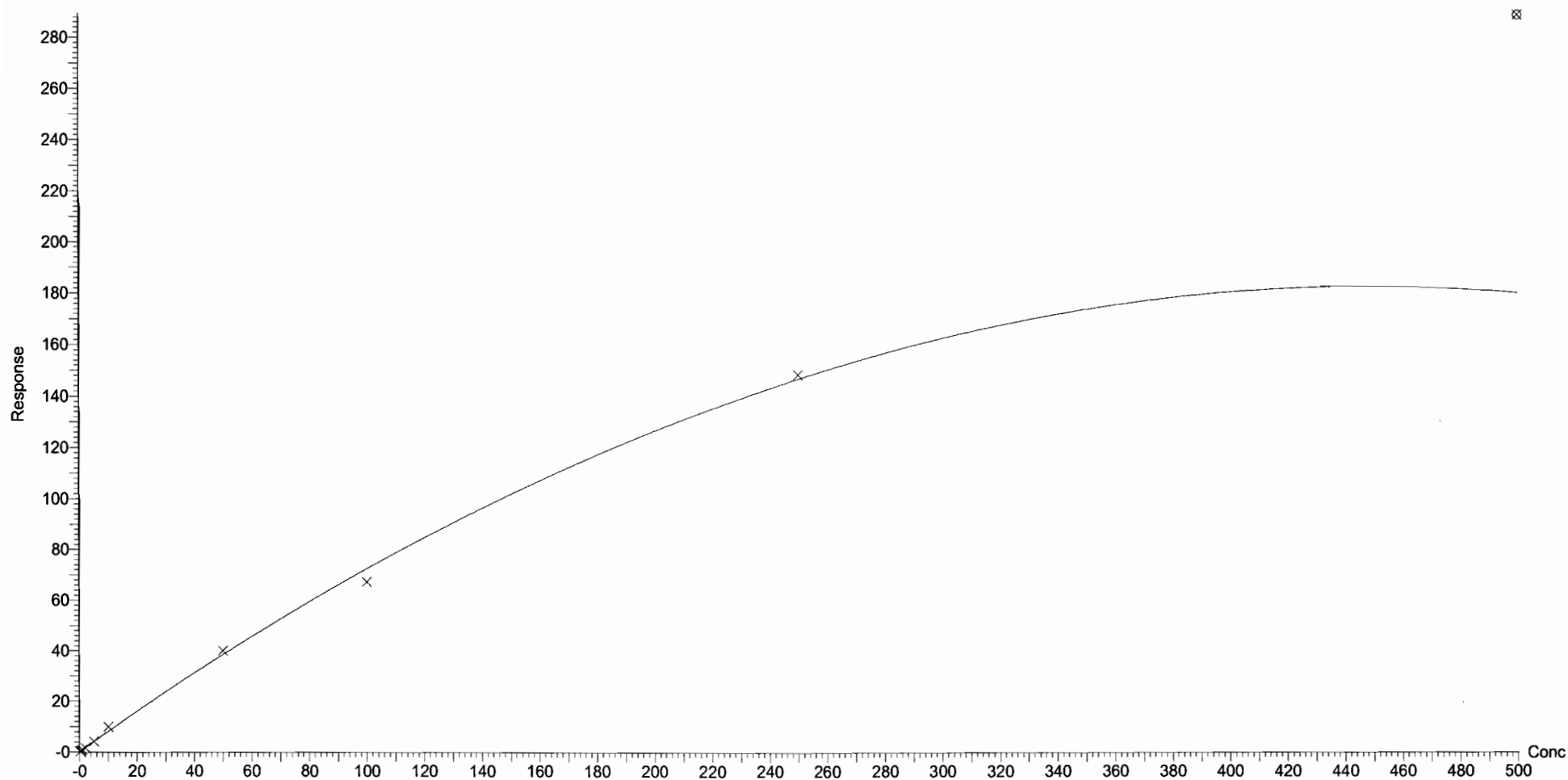
Compound name: PFODA

Coefficient of Determination: $R^2 = 0.996012$

Calibration curve: $-0.000908448 * x^2 + 0.81449 * x + 0.0357617$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

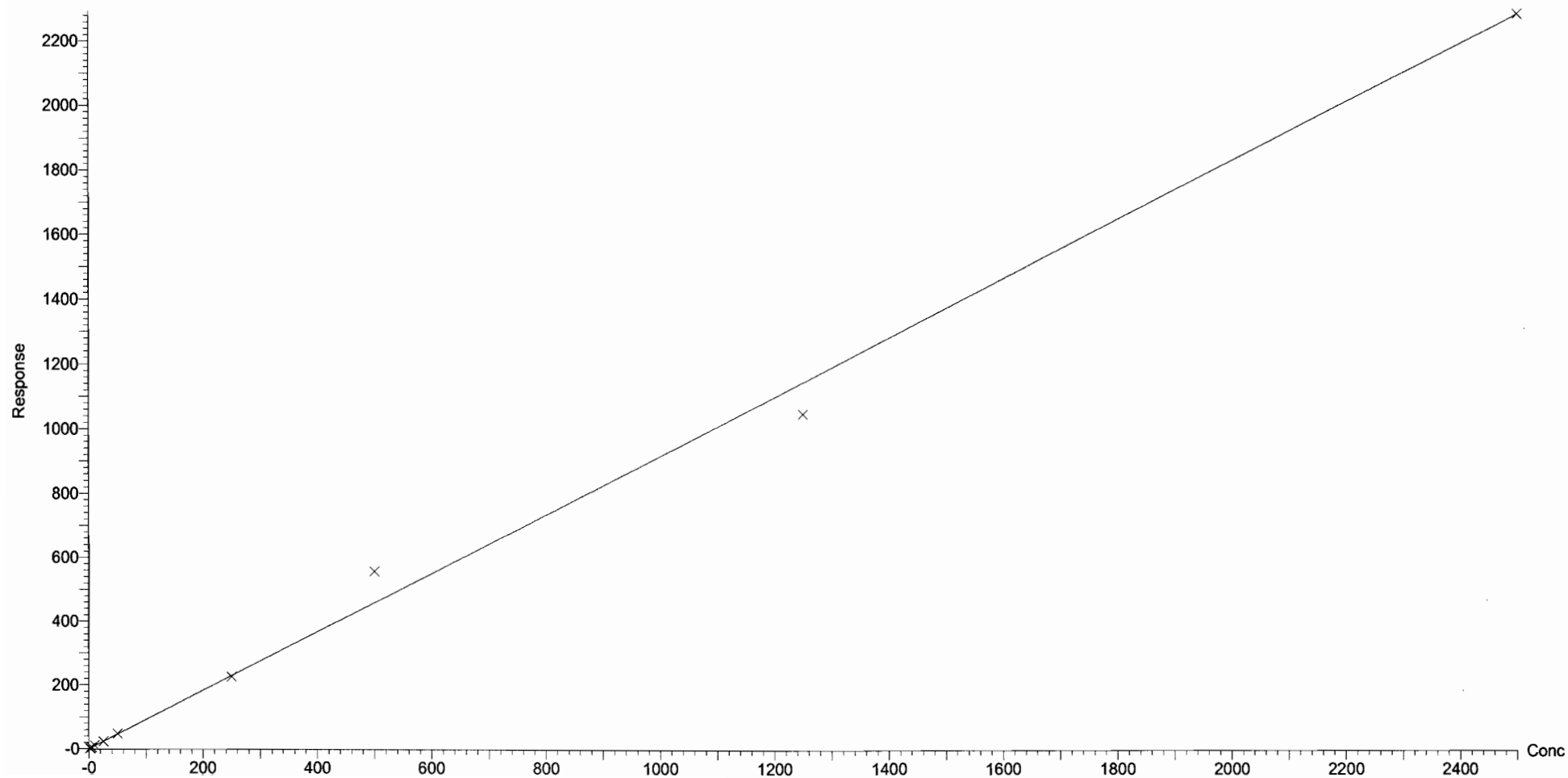
Compound name: N-MeFOSE

Correlation coefficient: $r = 0.996418$, $r^2 = 0.992848$

Calibration curve: $0.916664 * x + 0.283188$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:01:31 Pacific Standard Time

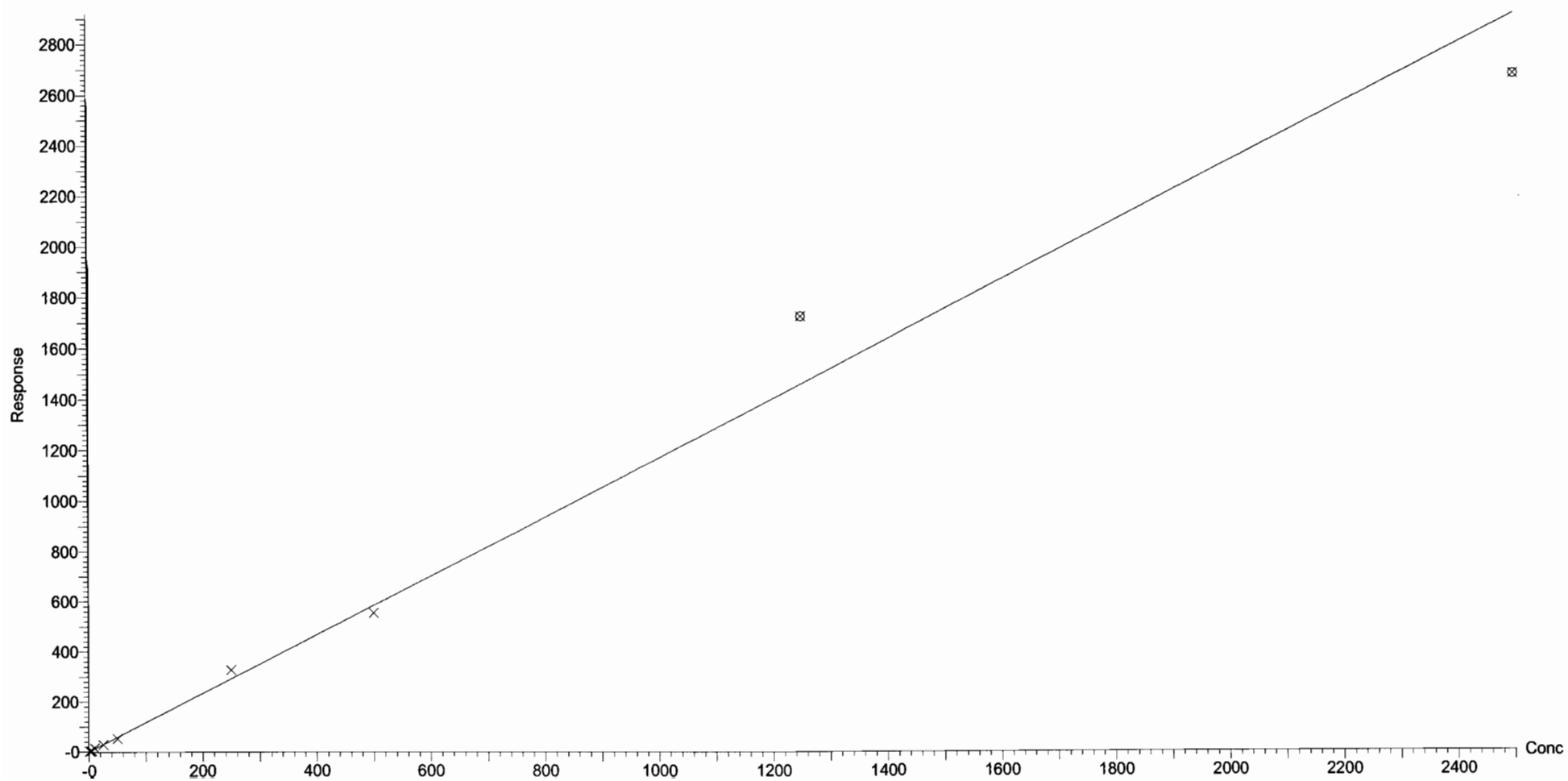
Compound name: N-EtFOSE

Correlation coefficient: $r = 0.996106$, $r^2 = 0.992228$

Calibration curve: $1.16767 * x + 0.0208375$

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

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



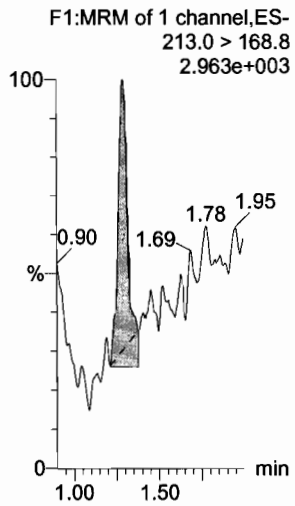
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

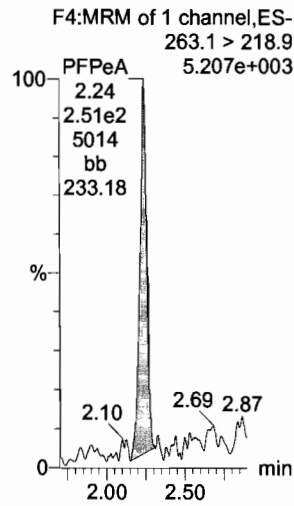
Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 08:59:53
Calibration: 31 Jan 2018 09:33:43

Name: 180130M2_2, Date: 30-Jan-2018, Time: 11:44:38, ID: ST180130M2-1 PFC CS-2 18A1904, Description: PFC CS-2 18A1904

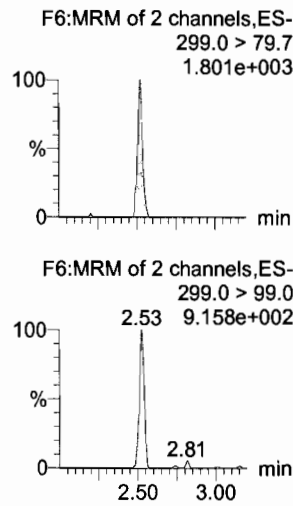
PFBA



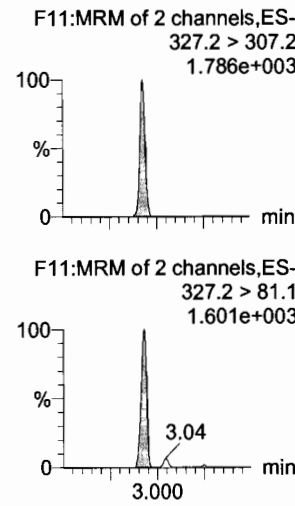
PFPeA



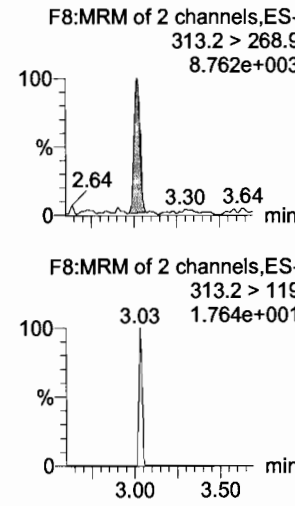
PFBS



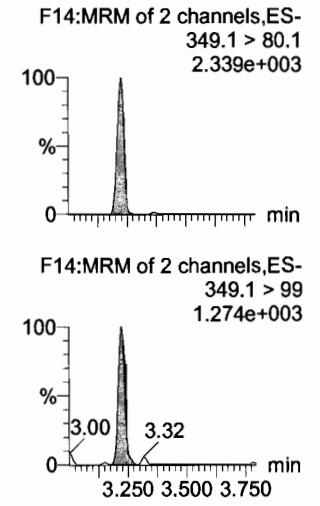
4:2 FTS



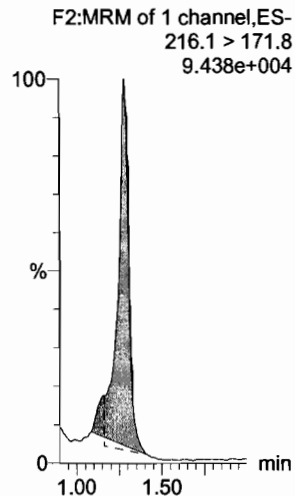
PFHxA



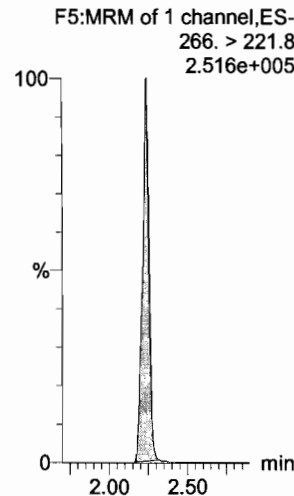
PFPeS



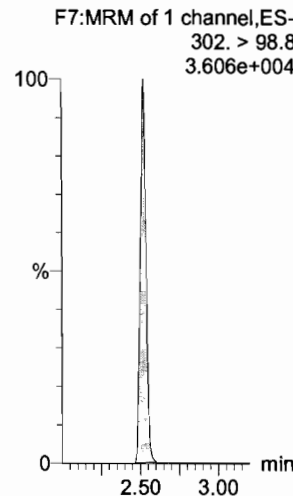
13C3-PFBA



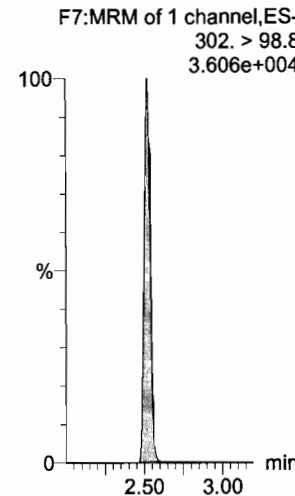
13C3-PFPeA



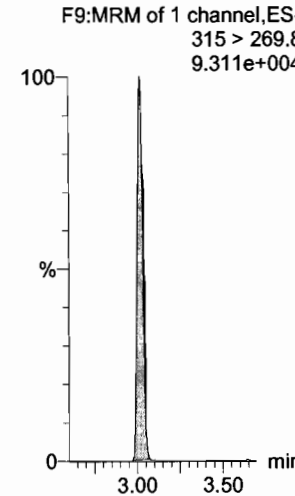
13C3-PFBS



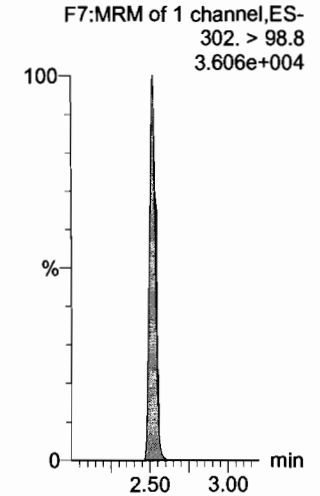
13C3-PFBS



13C2-PFHxA



13C3-PFBS

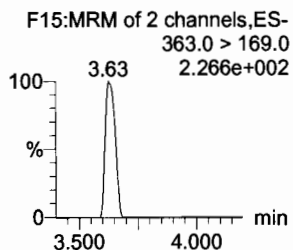
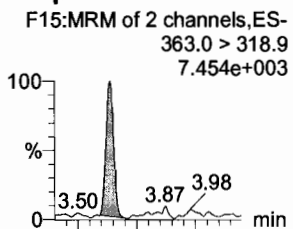


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

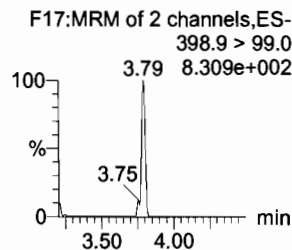
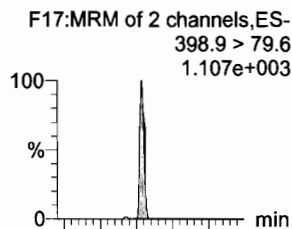
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_2, Date: 30-Jan-2018, Time: 11:44:38, ID: ST180130M2-1 PFC CS-2 18A1904, Description: PFC CS-2 18A1904

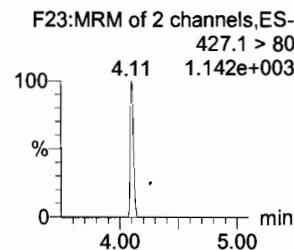
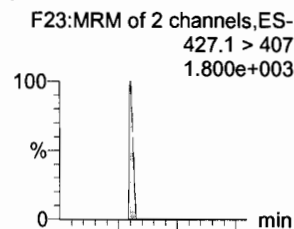
PFHpA



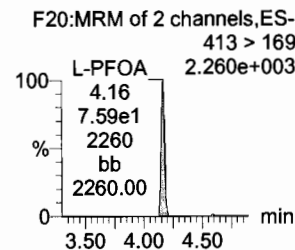
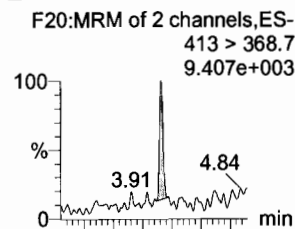
L-PFHxS



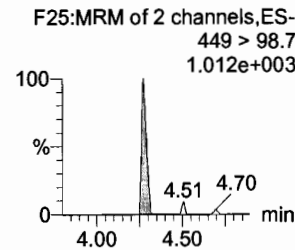
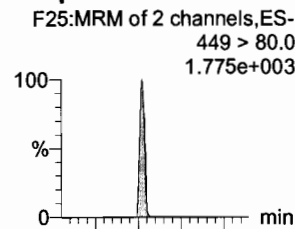
6:2 FTS



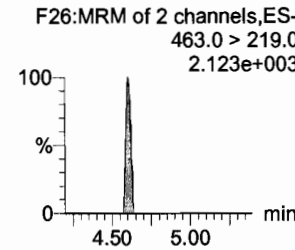
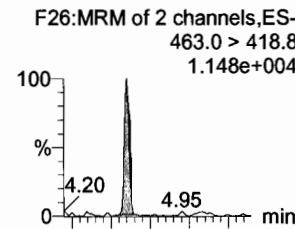
L-PFOA



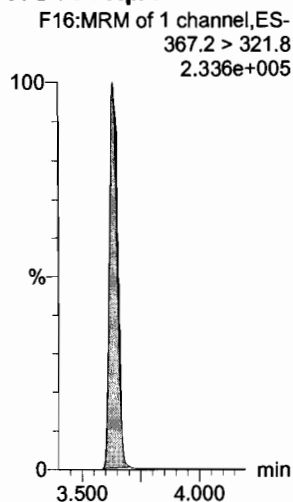
PFHpS



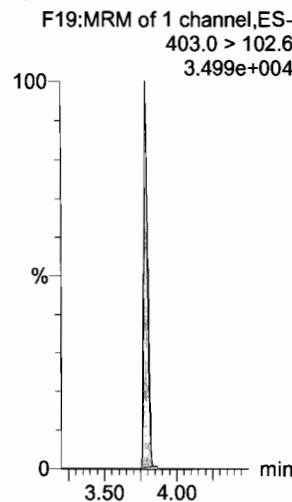
PFNA



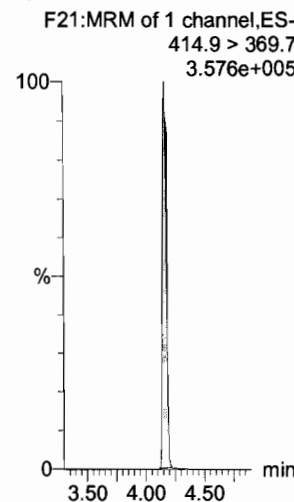
13C4-PFHpA



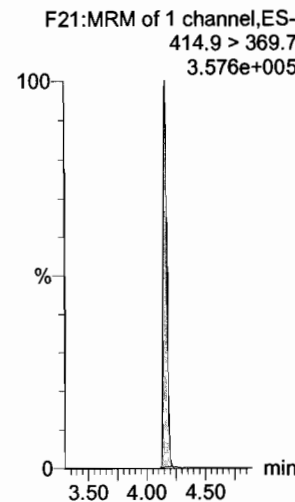
18O2-PFHxS



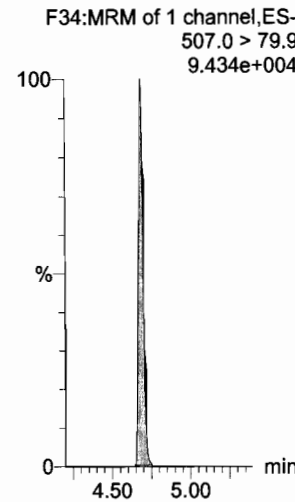
13C2-PFOA



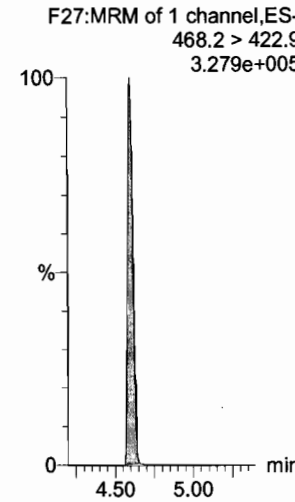
13C2-PFOA



13C8-PFOS



13C5-PFNA

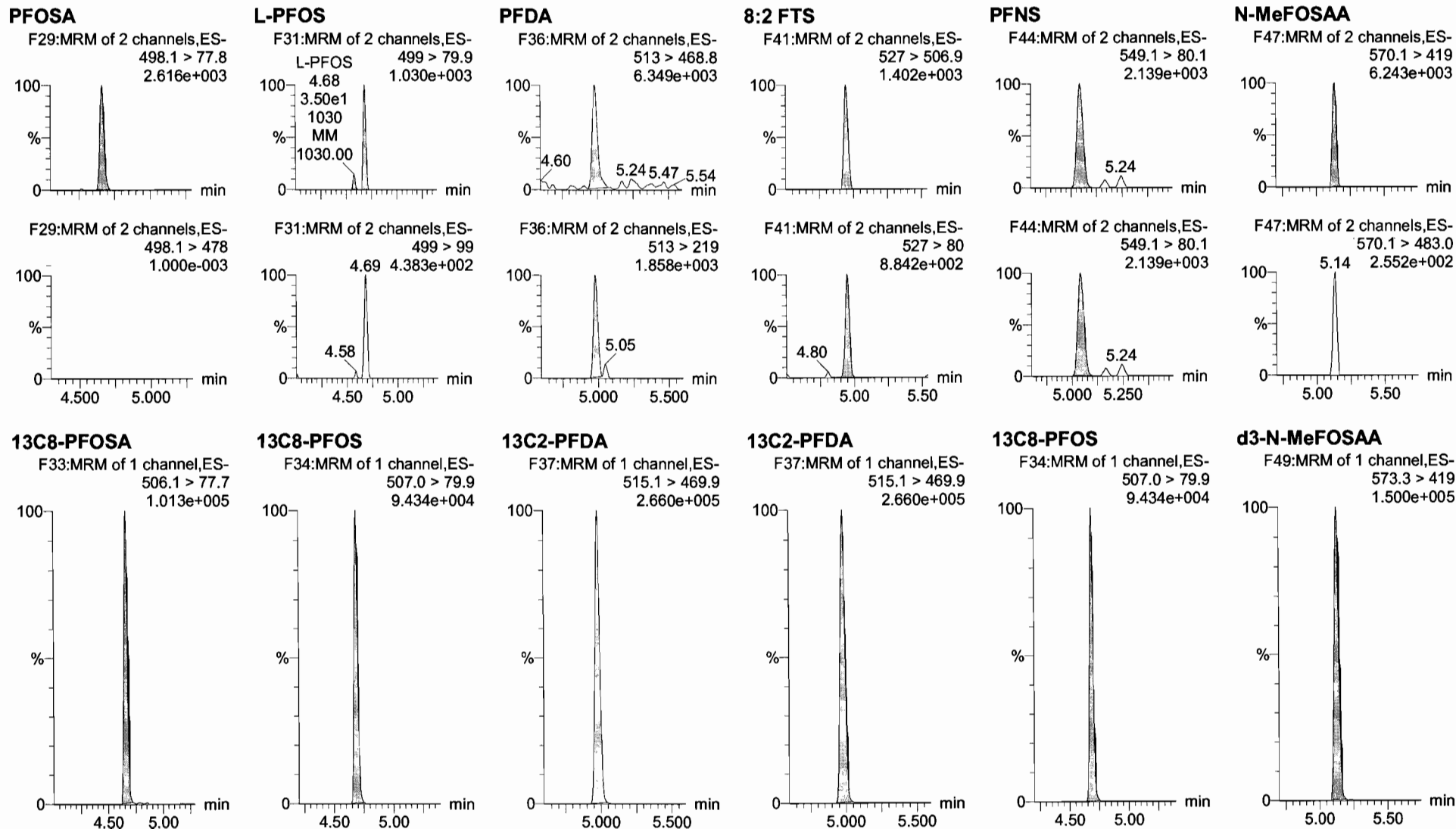


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_2, Date: 30-Jan-2018, Time: 11:44:38, ID: ST180130M2-1 PFC CS-2 18A1904, Description: PFC CS-2 18A1904



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

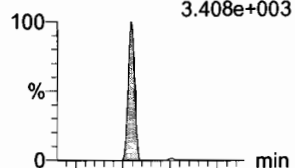
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_2, Date: 30-Jan-2018, Time: 11:44:38, ID: ST180130M2-1 PFC CS-2 18A1904, Description: PFC CS-2 18A1904

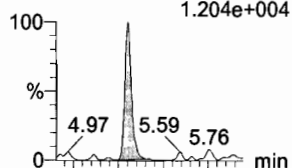
N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
3.408e+003



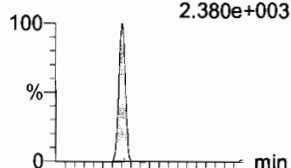
PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
1.204e+004



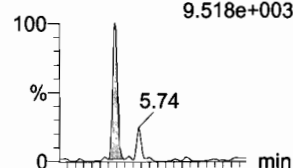
PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
2.380e+003



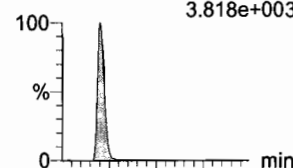
PFDaA

F53:MRM of 4 channels,ES-
612.9 > 569.0
9.518e+003



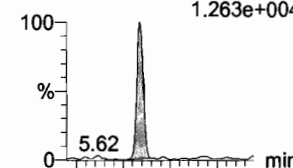
N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
3.818e+003

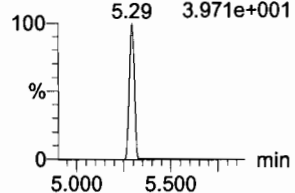


PFTrDA

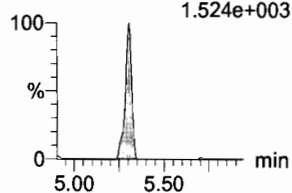
F59:MRM of 2 channels,ES-
662.9 > 618.9
1.263e+004



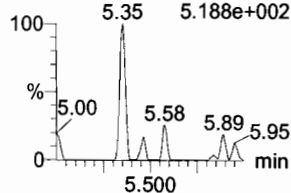
F50:MRM of 2 channels,ES-
584.2 > 483.0
3.971e+001



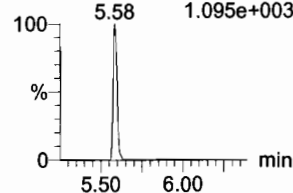
F45:MRM of 2 channels,ES-
563.0 > 269
1.524e+003



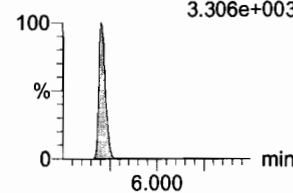
F52:MRM of 2 channels,ES-
598.8 > 98.7
5.188e+002



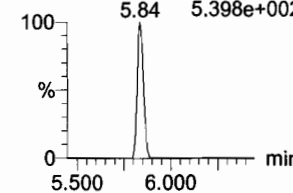
F53:MRM of 4 channels,ES-
612.9 > 318.8
1.095e+003



F35:MRM of 2 channels,ES-
512.1 > 219
3.306e+003

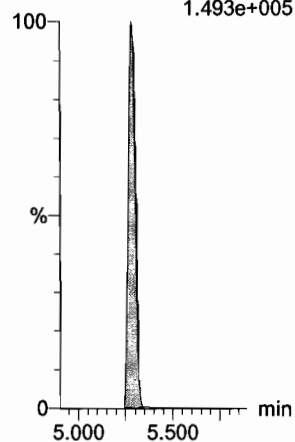


F59:MRM of 2 channels,ES-
662.9 > 319
5.398e+002



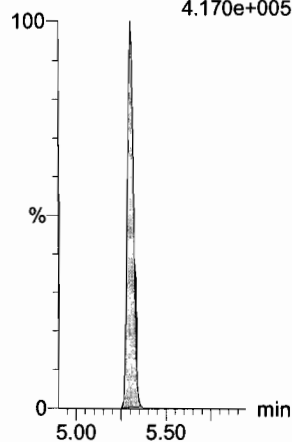
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.493e+005



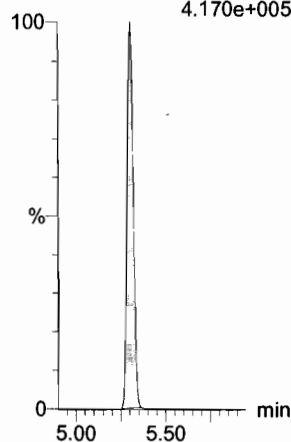
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
4.170e+005



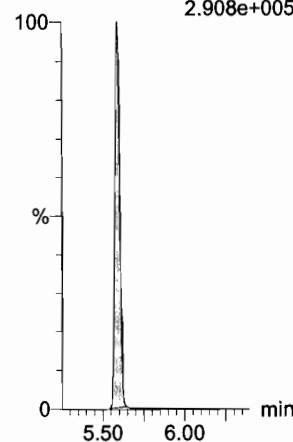
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
4.170e+005



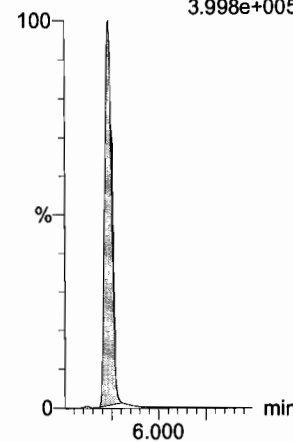
13C2-PFDaA

F54:MRM of 2 channels,ES-
615.0 > 569.7
2.908e+005



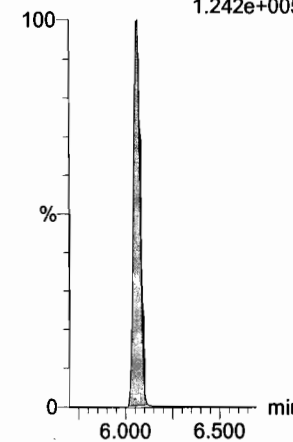
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
3.998e+005



13C2-PFTeDA

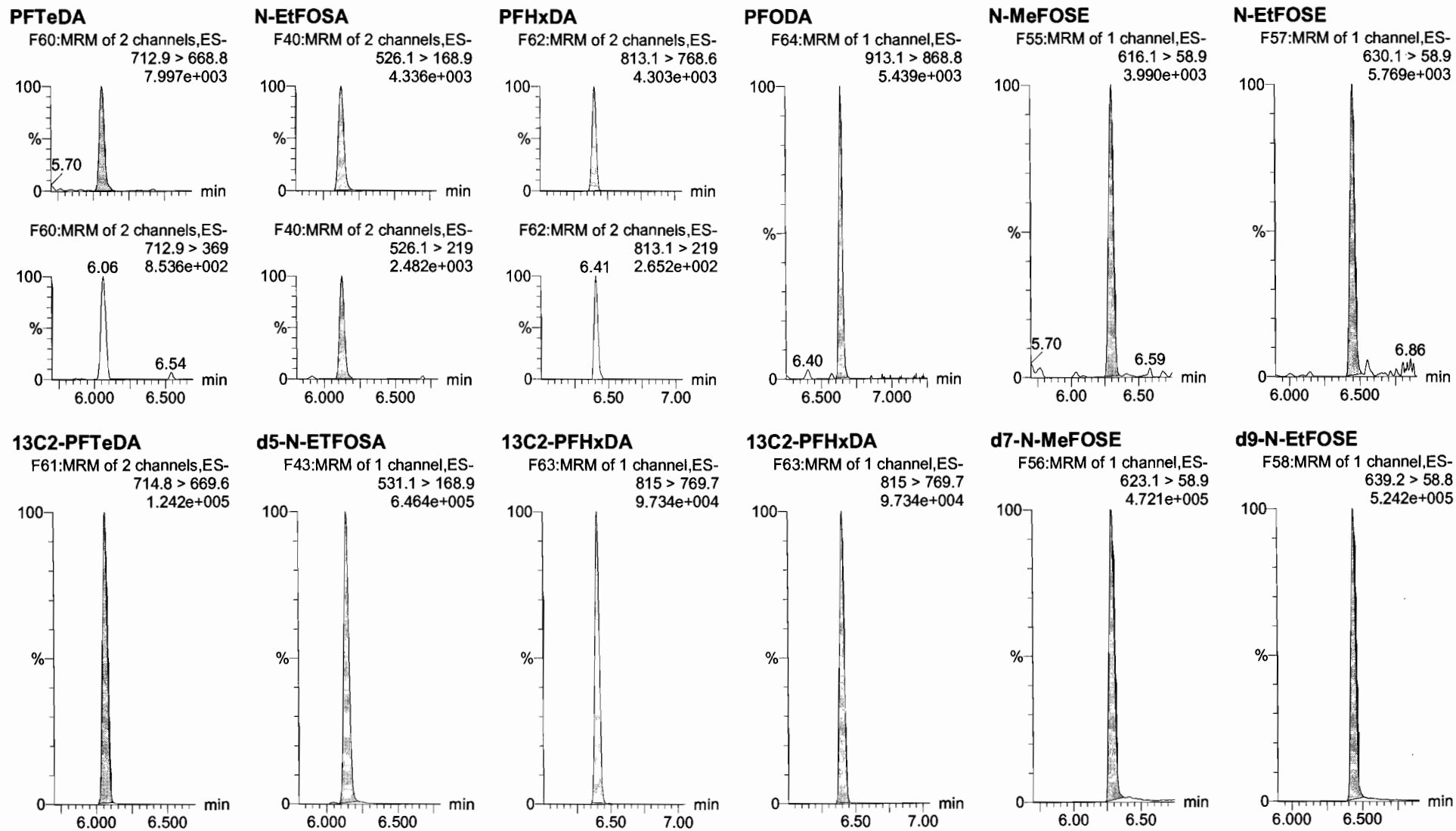
F61:MRM of 2 channels,ES-
714.8 > 669.6
1.242e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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Name: 180130M2_2, Date: 30-Jan-2018, Time: 11:44:38, ID: ST180130M2-1 PFC CS-2 18A1904, Description: PFC CS-2 18A1904



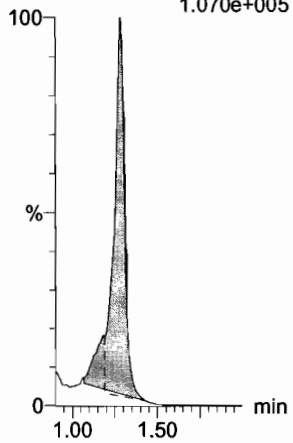
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_2, Date: 30-Jan-2018, Time: 11:44:38, ID: ST180130M2-1 PFC CS-2 18A1904, Description: PFC CS-2 18A1904

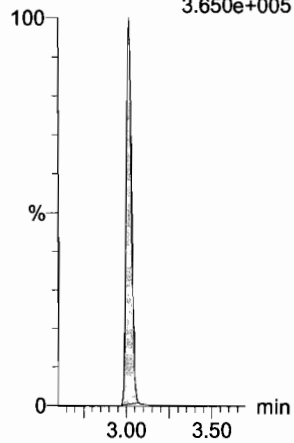
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.070e+005



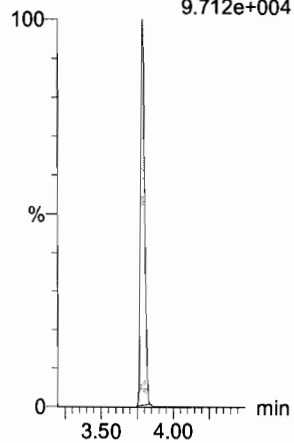
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.650e+005



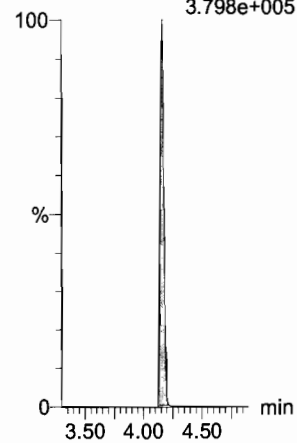
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
9.712e+004



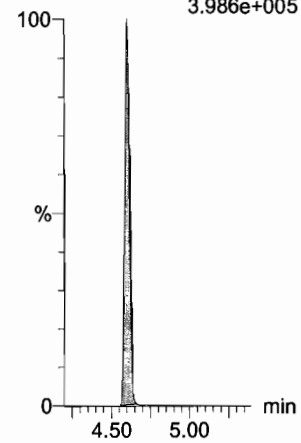
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
3.798e+005



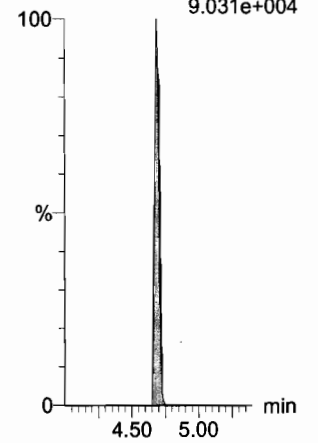
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
3.986e+005



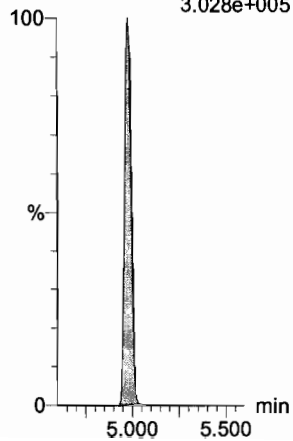
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
9.031e+004



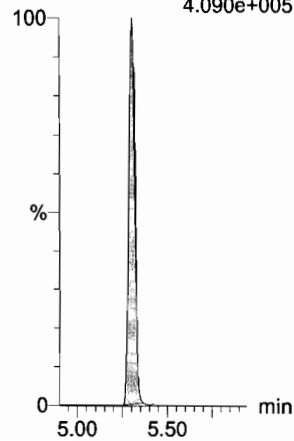
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
3.028e+005



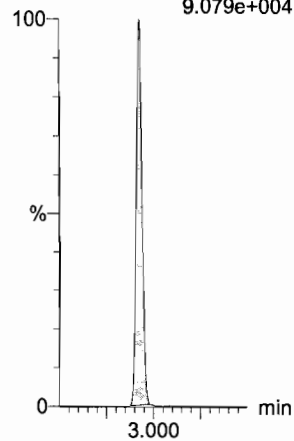
13C7-PFUDa

F48:MRM of 1 channel,ES-
570.1 > 524.8
4.090e+005



13C2-4:2 FTS

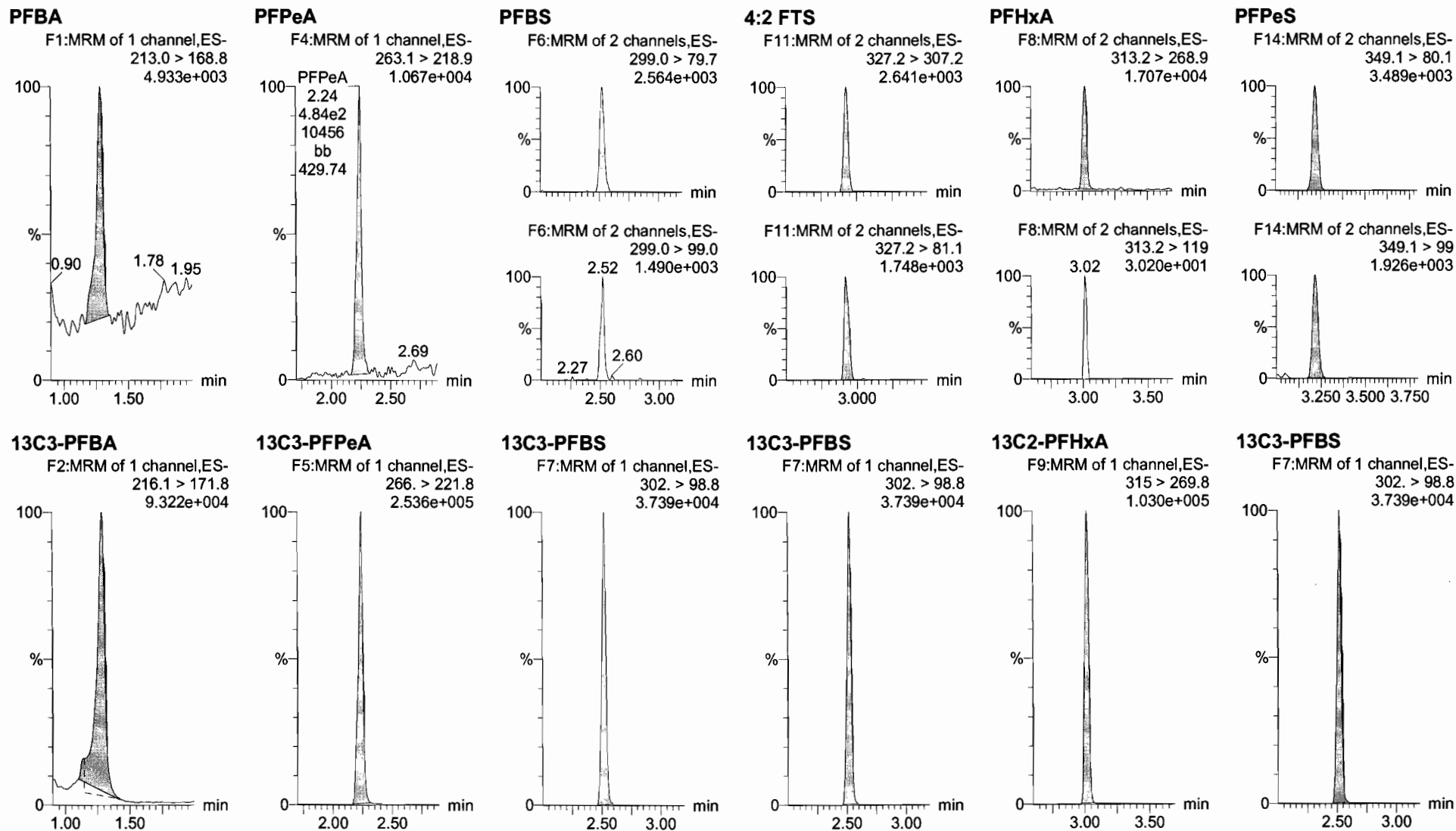
F12:MRM of 1 channel,ES-
329.2 > 308.9
9.079e+004



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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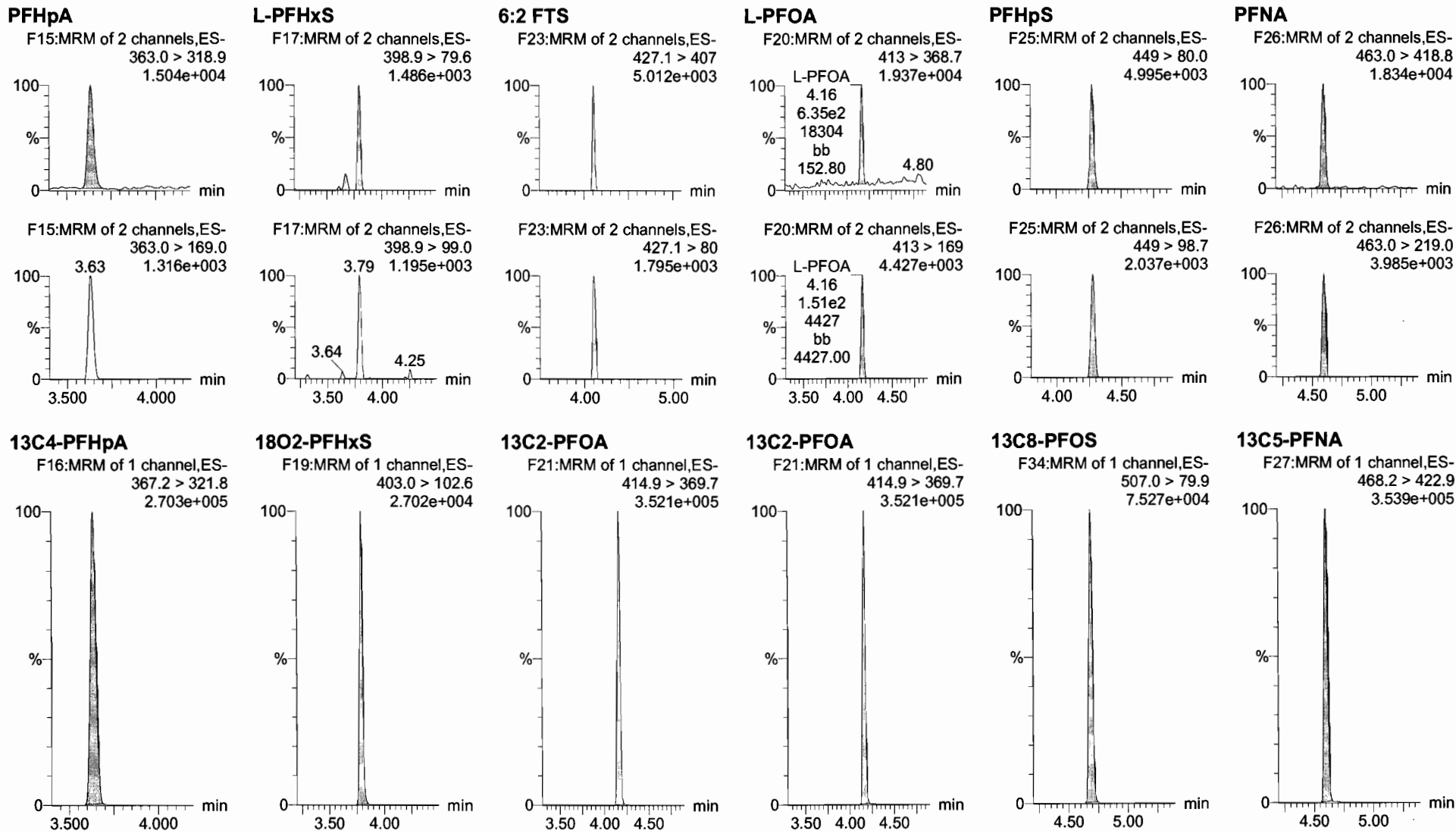
Name: 180130M2_3, Date: 30-Jan-2018, Time: 11:56:07, ID: ST180130M2-2 PFC CS-1 18A1905, Description: PFC CS-1 18A1905



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_3, Date: 30-Jan-2018, Time: 11:56:07, ID: ST180130M2-2 PFC CS-1 18A1905, Description: PFC CS-1 18A1905



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

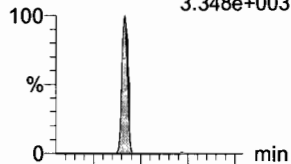
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

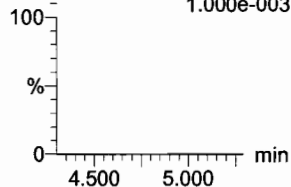
Name: 180130M2_3, Date: 30-Jan-2018, Time: 11:56:07, ID: ST180130M2-2 PFC CS-1 18A1905, Description: PFC CS-1 18A1905

PFOSA

F29:MRM of 2 channels,ES-
498.1 > 77.8
3.348e+003

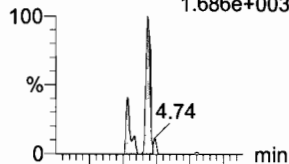


F29:MRM of 2 channels,ES-
498.1 > 478
1.000e-003

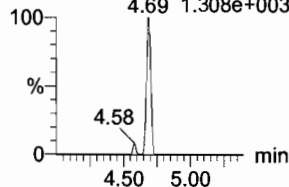


L-PFOS

F31:MRM of 2 channels,ES-
499 > 79.9
1.686e+003

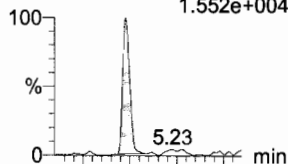


F31:MRM of 2 channels,ES-
499 > 99
1.308e+003

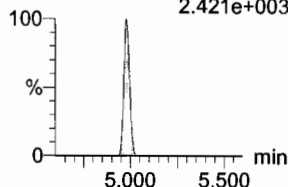


PFDA

F36:MRM of 2 channels,ES-
513 > 468.8
1.552e+004

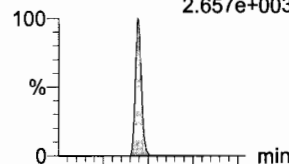


F36:MRM of 2 channels,ES-
513 > 219
2.421e+003

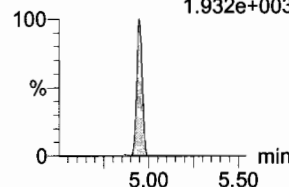


8:2 FTS

F41:MRM of 2 channels,ES-
527 > 506.9
2.657e+003

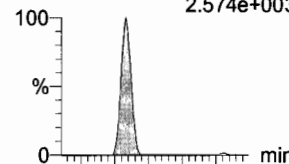


F41:MRM of 2 channels,ES-
527 > 80
1.932e+003

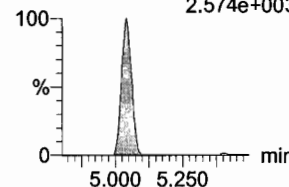


PFNS

F44:MRM of 2 channels,ES-
549.1 > 80.1
2.574e+003

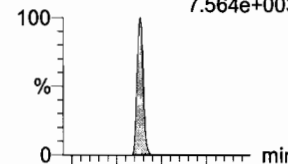


F44:MRM of 2 channels,ES-
549.1 > 80.1
2.574e+003

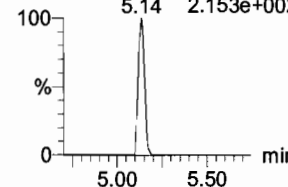


N-MeFOSAA

F47:MRM of 2 channels,ES-
570.1 > 419
7.564e+003

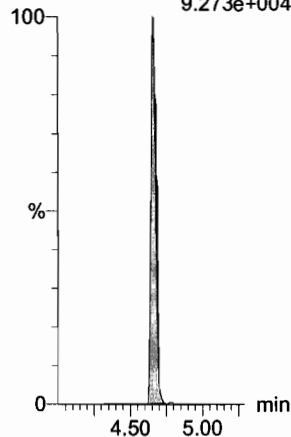


F47:MRM of 2 channels,ES-
570.1 > 483.0
2.153e+002



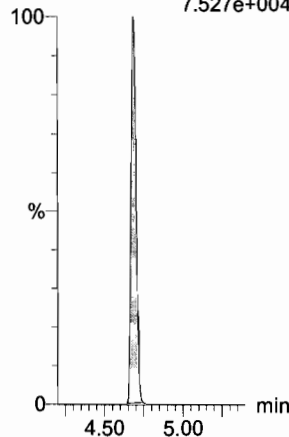
13C8-PFOA

F33:MRM of 1 channel,ES-
506.1 > 77.7
9.273e+004



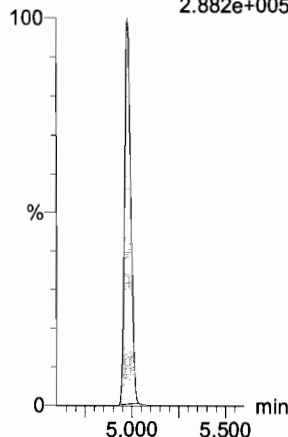
13C8-PFOS

F34:MRM of 1 channel,ES-
507.0 > 79.9
7.527e+004



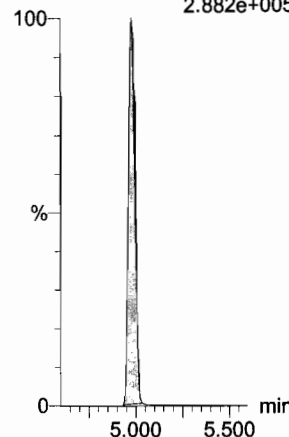
13C2-PFDA

F37:MRM of 1 channel,ES-
515.1 > 469.9
2.882e+005



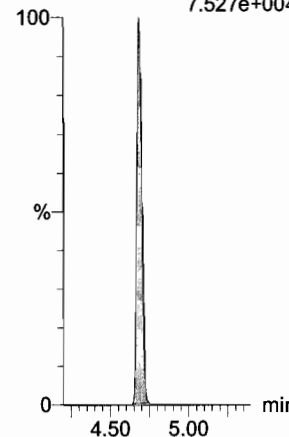
13C2-PFDA

F37:MRM of 1 channel,ES-
515.1 > 469.9
2.882e+005



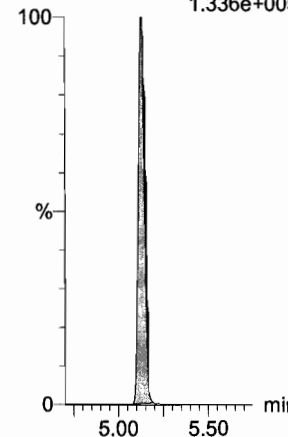
13C8-PFOS

F34:MRM of 1 channel,ES-
507.0 > 79.9
7.527e+004



d3-N-MeFOSAA

F49:MRM of 1 channel,ES-
573.3 > 419
1.336e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

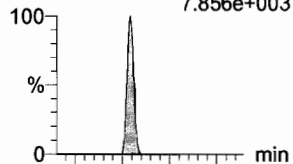
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

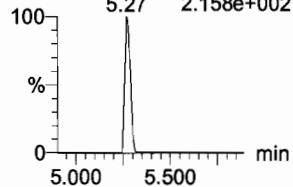
Name: 180130M2_3, Date: 30-Jan-2018, Time: 11:56:07, ID: ST180130M2-2 PFC CS-1 18A1905, Description: PFC CS-1 18A1905

N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
7.856e+003

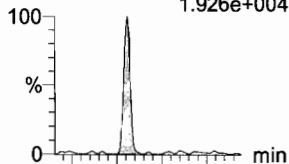


F50:MRM of 2 channels,ES-
584.2 > 483.0
2.158e+002

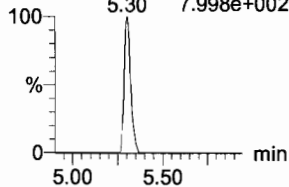


PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
1.926e+004

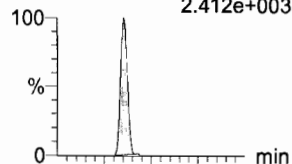


F45:MRM of 2 channels,ES-
563.0 > 269
7.998e+002

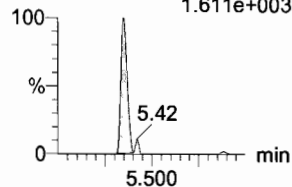


PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
2.412e+003

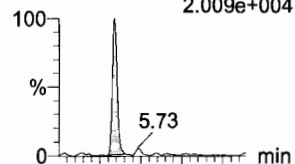


F52:MRM of 2 channels,ES-
598.8 > 98.7
1.611e+003

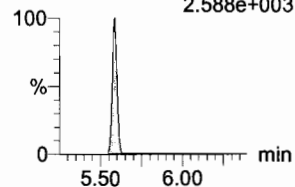


PFDaA

F53:MRM of 4 channels,ES-
612.9 > 569.0
2.009e+004

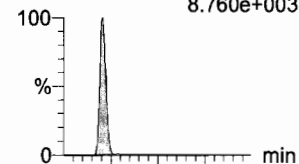


F53:MRM of 4 channels,ES-
612.9 > 318.8
2.588e+003

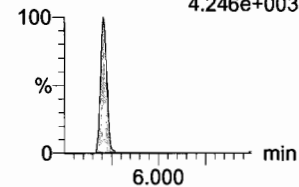


N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
8.760e+003

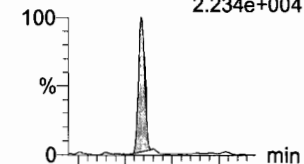


F35:MRM of 2 channels,ES-
512.1 > 219
4.246e+003

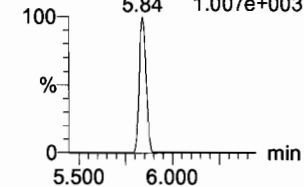


PFTrDA

F59:MRM of 2 channels,ES-
662.9 > 618.9
2.234e+004

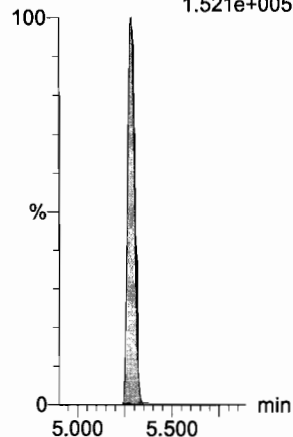


F59:MRM of 2 channels,ES-
662.9 > 319
1.007e+003



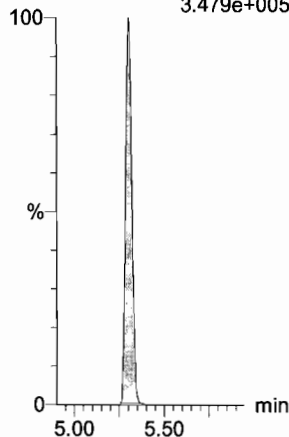
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.521e+005



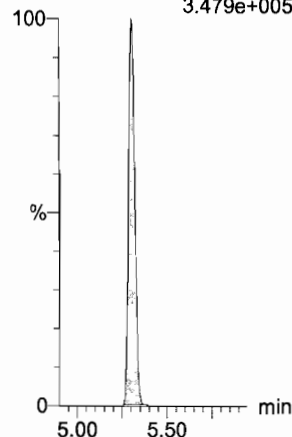
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.479e+005



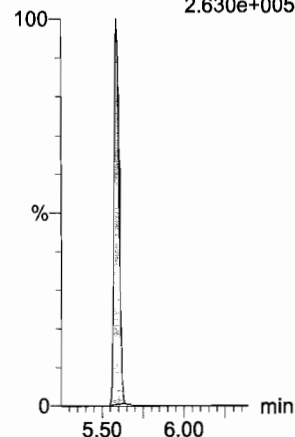
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.479e+005



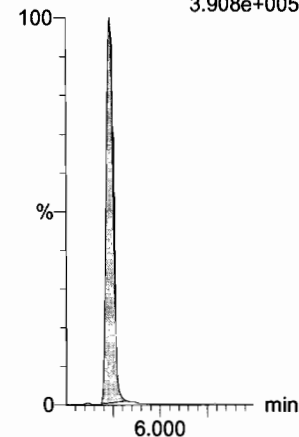
13C2-PFDaA

F54:MRM of 2 channels,ES-
615.0 > 569.7
2.630e+005



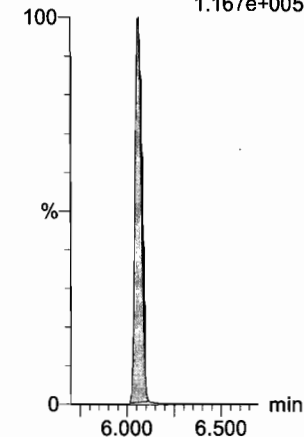
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
3.908e+005



13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.167e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

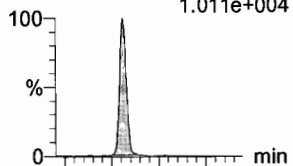
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

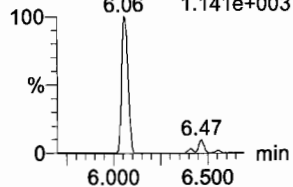
Name: 180130M2_3, Date: 30-Jan-2018, Time: 11:56:07, ID: ST180130M2-2 PFC CS-1 18A1905, Description: PFC CS-1 18A1905

PFTeDA

F60:MRM of 2 channels,ES-
712.9 > 668.8
1.011e+004

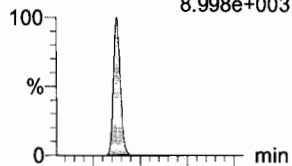


F60:MRM of 2 channels,ES-
712.9 > 369
1.141e+003

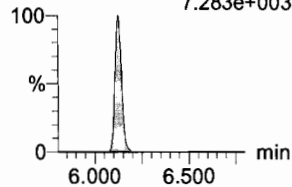


N-EtFOSA

F40:MRM of 2 channels,ES-
526.1 > 168.9
8.998e+003

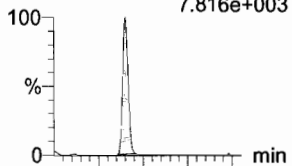


F40:MRM of 2 channels,ES-
526.1 > 219
7.283e+003

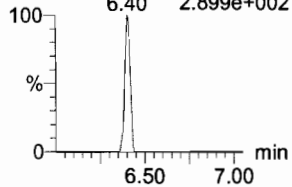


PFHxDA

F62:MRM of 2 channels,ES-
813.1 > 768.6
7.816e+003

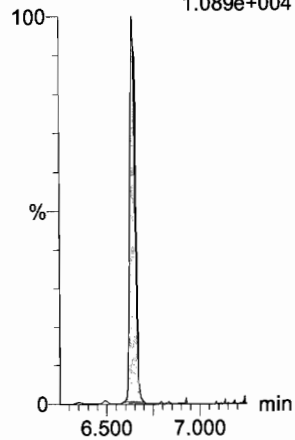


F62:MRM of 2 channels,ES-
813.1 > 219
2.899e+002



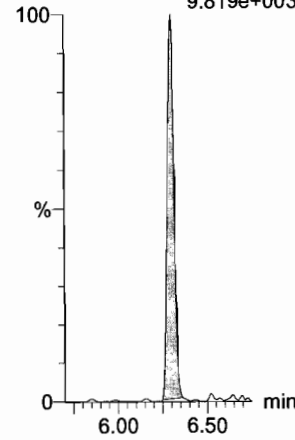
PFODA

F64:MRM of 1 channel,ES-
913.1 > 868.8
1.089e+004



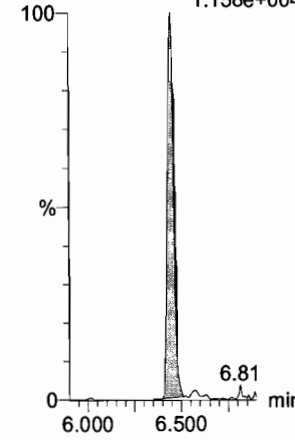
N-MeFOSE

F55:MRM of 1 channel,ES-
616.1 > 58.9
9.819e+003



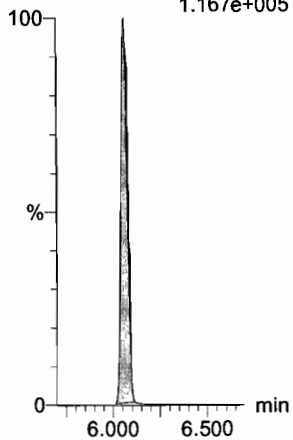
N-EtFOSE

F57:MRM of 1 channel,ES-
630.1 > 58.9
1.158e+004



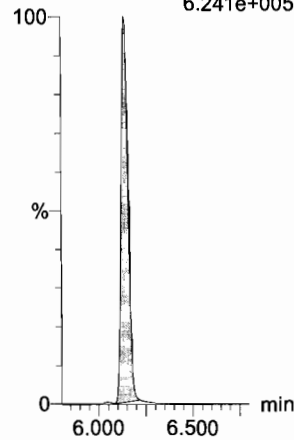
13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.167e+005



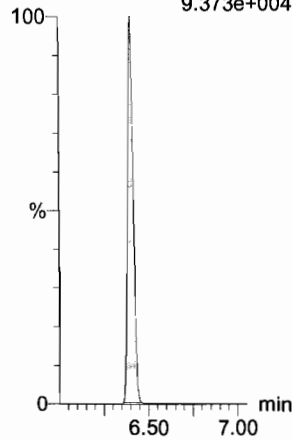
d5-N-ETFOSA

F43:MRM of 1 channel,ES-
531.1 > 168.9
6.241e+005



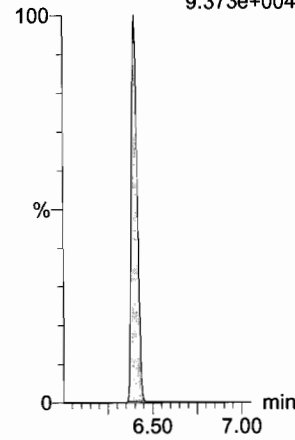
13C2-PFHxDA

F63:MRM of 1 channel,ES-
815 > 769.7
9.373e+004



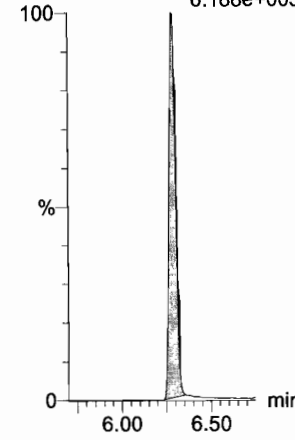
13C2-PFHxDA

F63:MRM of 1 channel,ES-
815 > 769.7
9.373e+004



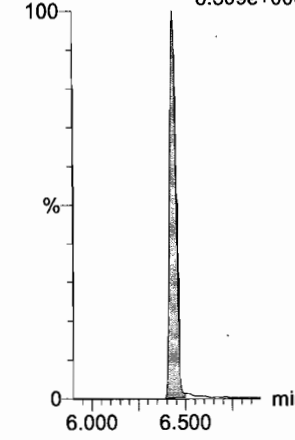
d7-N-MeFOSE

F56:MRM of 1 channel,ES-
623.1 > 58.9
6.188e+005



d9-N-EtFOSE

F58:MRM of 1 channel,ES-
639.2 > 58.8
6.509e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

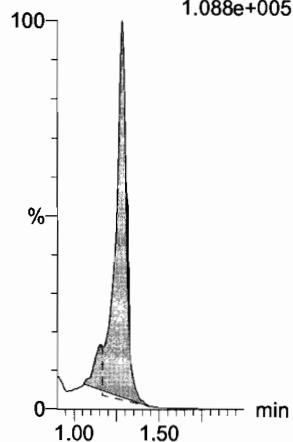
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_3, Date: 30-Jan-2018, Time: 11:56:07, ID: ST180130M2-2 PFC CS-1 18A1905, Description: PFC CS-1 18A1905

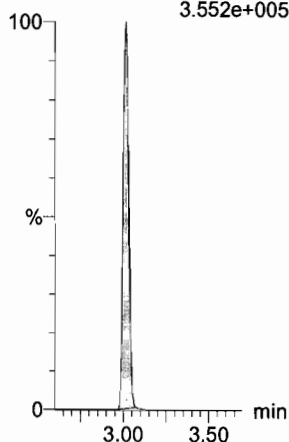
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.088e+005



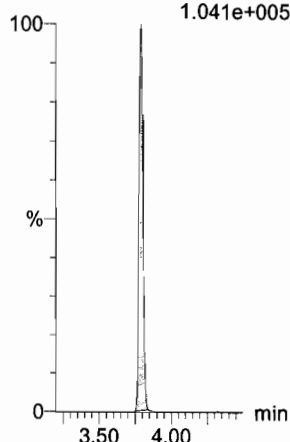
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.552e+005



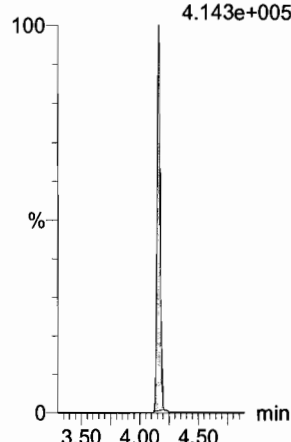
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
1.041e+005



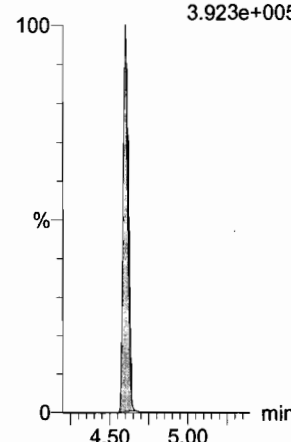
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
4.143e+005



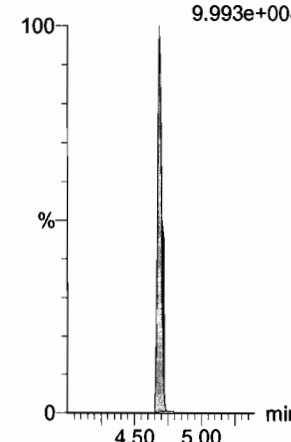
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
3.923e+005



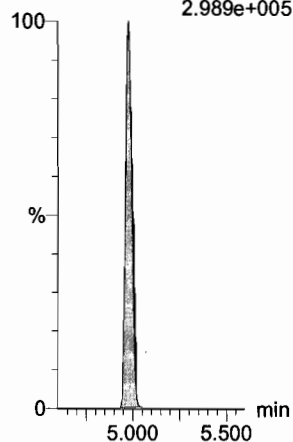
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
9.993e+004



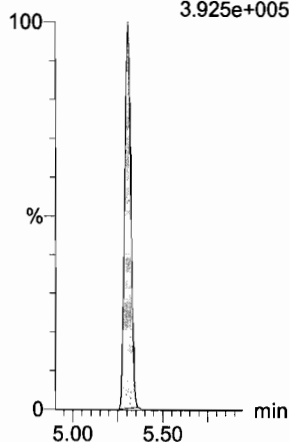
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
2.989e+005



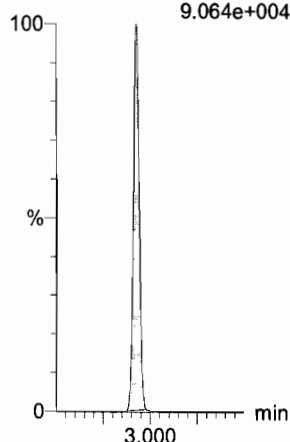
13C7-PFUDa

F48:MRM of 1 channel,ES-
570.1 > 524.8
3.925e+005



13C2-4:2 FTS

F12:MRM of 1 channel,ES-
329.2 > 308.9
9.064e+004



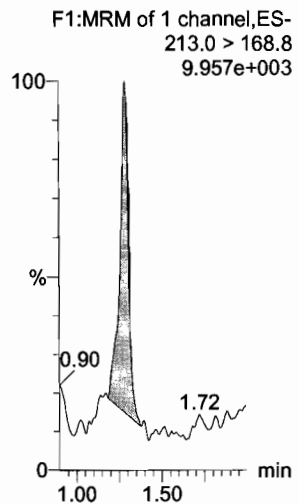
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Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

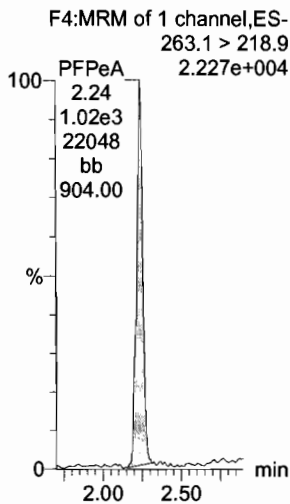
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_4, Date: 30-Jan-2018, Time: 12:07:36, ID: ST180130M2-3 PFC CS0 18A1906, Description: PFC CS0 18A1906

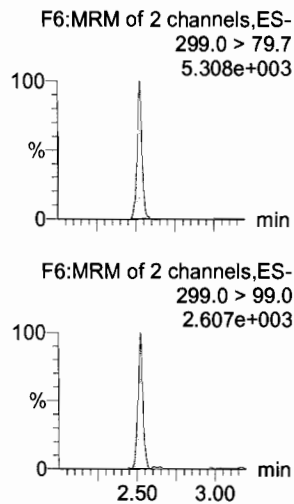
PFBA



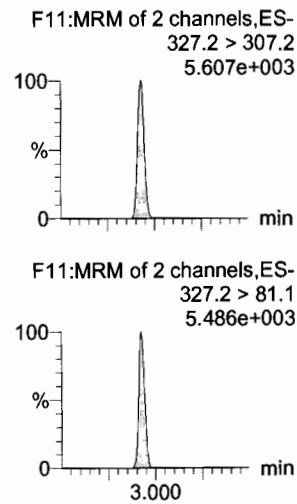
PFPeA



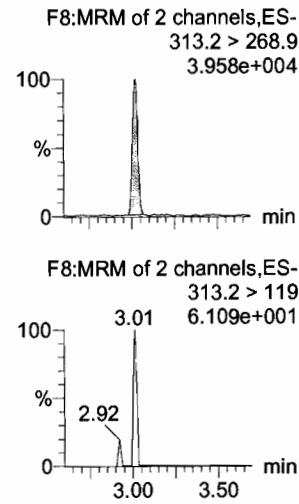
PFBS



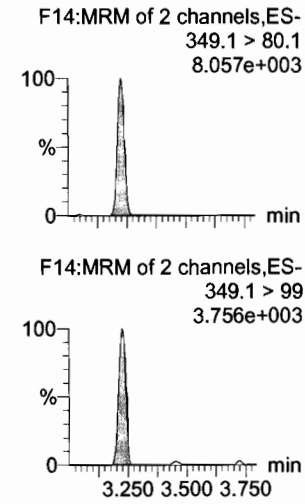
4:2 FTS



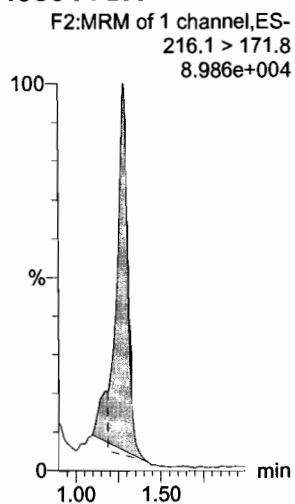
PFHxA



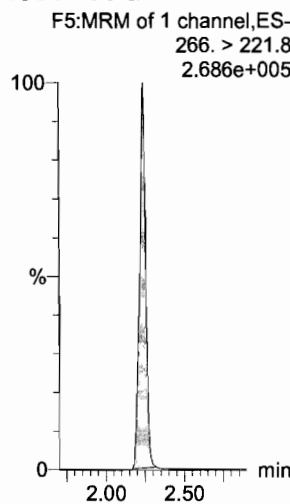
PFPeS



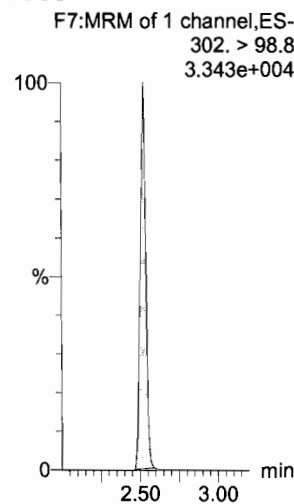
13C3-PFBA



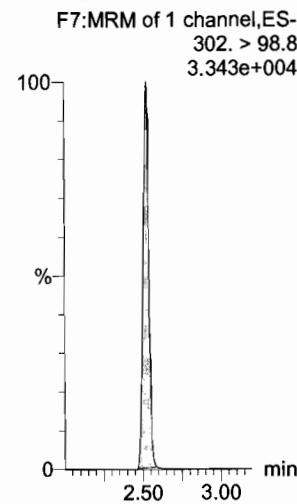
13C3-PFPeA



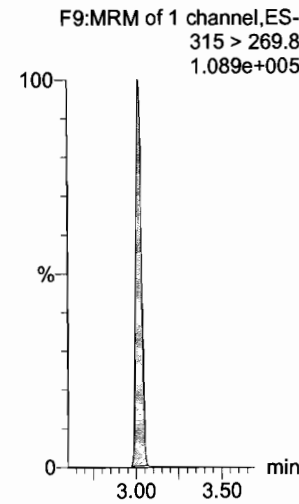
13C3-PFBS



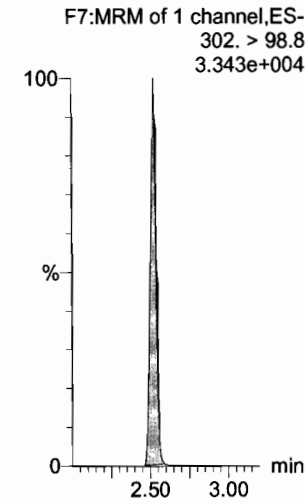
13C3-PFBS



13C2-PFHxA



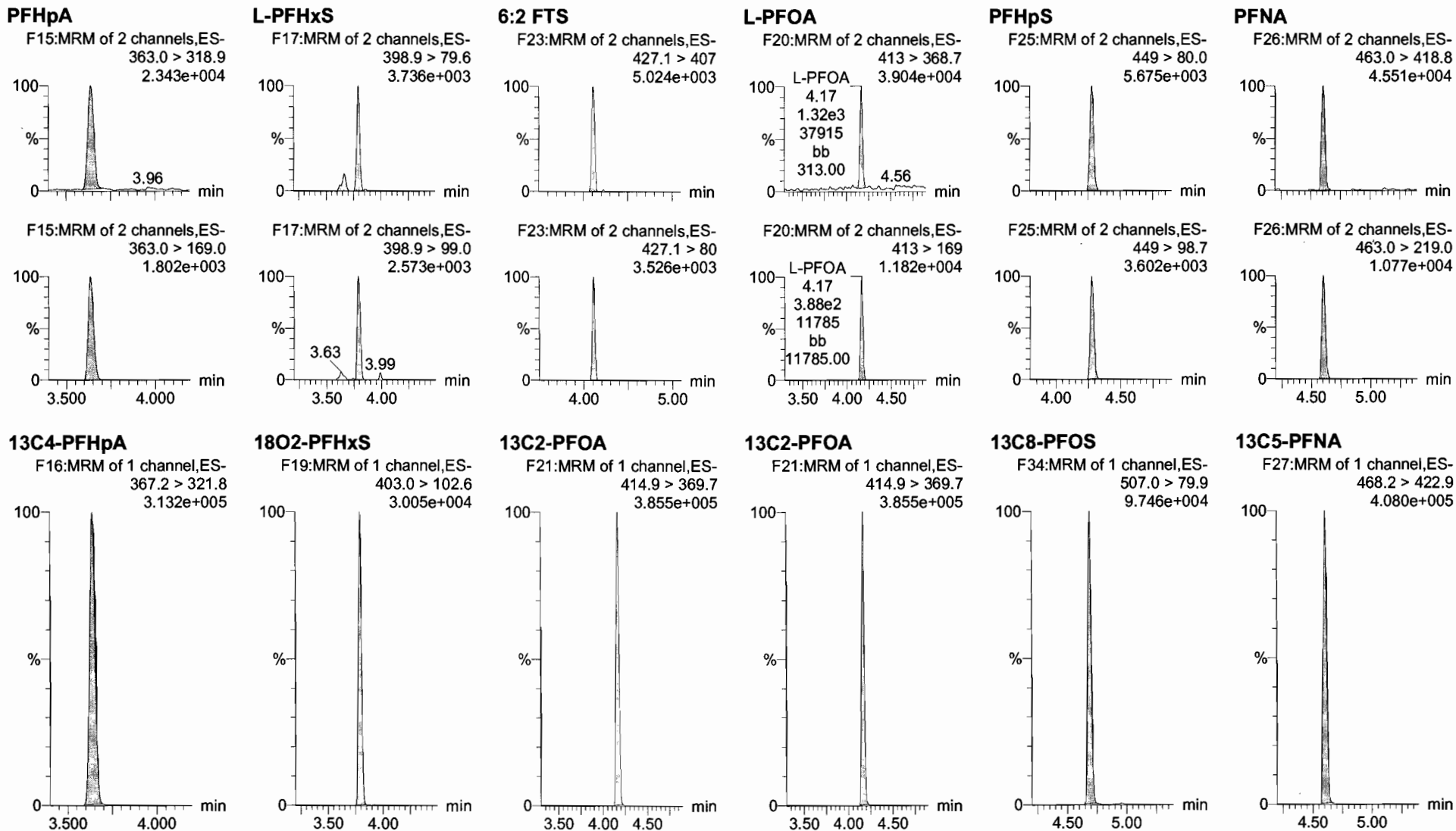
13C3-PFBS



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_4, Date: 30-Jan-2018, Time: 12:07:36, ID: ST180130M2-3 PFC CS0 18A1906, Description: PFC CS0 18A1906



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

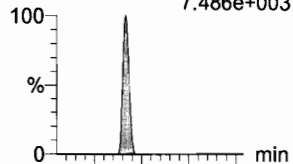
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

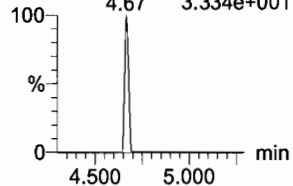
Name: 180130M2_4, Date: 30-Jan-2018, Time: 12:07:36, ID: ST180130M2-3 PFC CS0 18A1906, Description: PFC CS0 18A1906

PFOSA

F29:MRM of 2 channels,ES-
498.1 > 77.8
7.486e+003

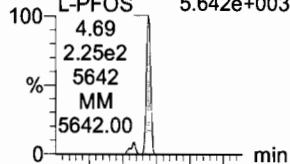


F29:MRM of 2 channels,ES-
498.1 > 478
3.334e+001

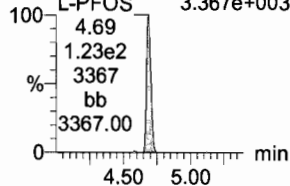


L-PFOS

F31:MRM of 2 channels,ES-
499 > 79.9
5.642e+003

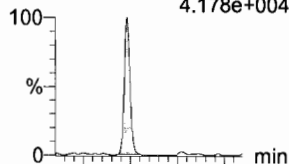


F31:MRM of 2 channels,ES-
499 > 99
3.367e+003

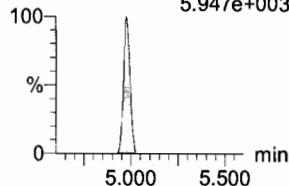


PFDA

F36:MRM of 2 channels,ES-
513 > 468.8
4.178e+004

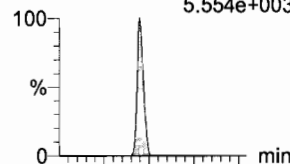


F36:MRM of 2 channels,ES-
513 > 219
5.947e+003

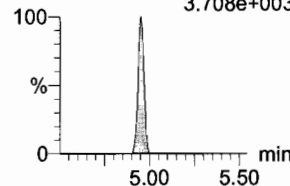


8:2 FTS

F41:MRM of 2 channels,ES-
527 > 506.9
5.554e+003

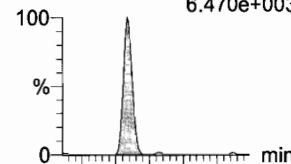


F41:MRM of 2 channels,ES-
527 > 80
3.708e+003

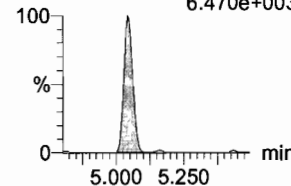


PFNS

F44:MRM of 2 channels,ES-
549.1 > 80.1
6.470e+003

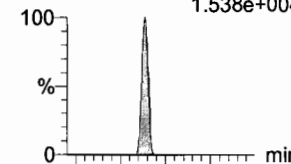


F44:MRM of 2 channels,ES-
549.1 > 80.1
6.470e+003

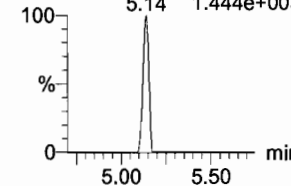


N-MeFOSAA

F47:MRM of 2 channels,ES-
570.1 > 419
1.538e+004

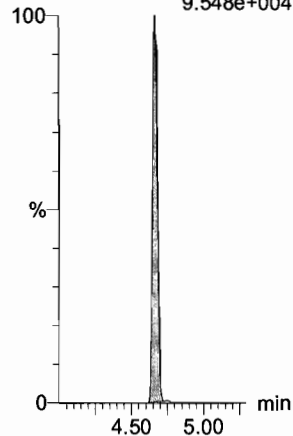


F47:MRM of 2 channels,ES-
570.1 > 483.0
1.444e+003



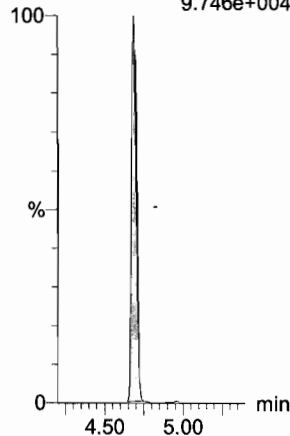
13C8-PFOSA

F33:MRM of 1 channel,ES-
506.1 > 77.7
9.548e+004



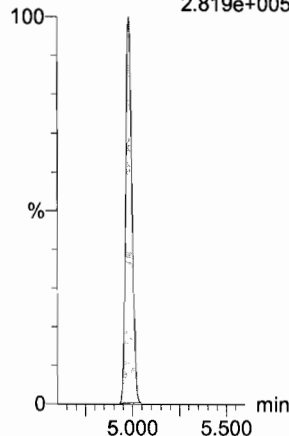
13C8-PFOS

F34:MRM of 1 channel,ES-
507.0 > 79.9
9.746e+004



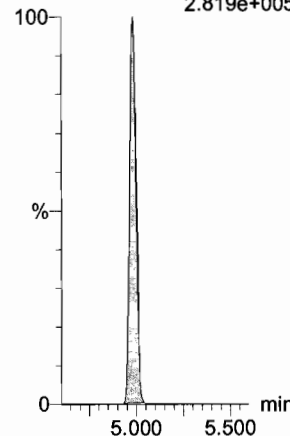
13C2-PFDA

F37:MRM of 1 channel,ES-
515.1 > 469.9
2.819e+005



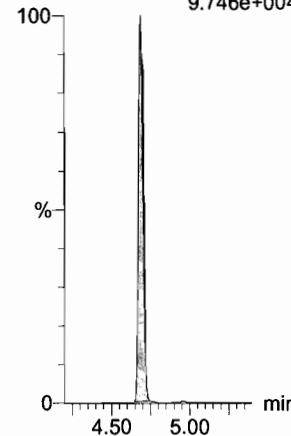
13C2-PFDA

F37:MRM of 1 channel,ES-
515.1 > 469.9
2.819e+005



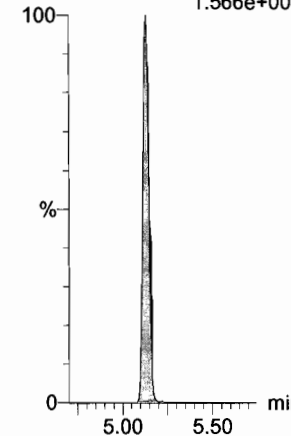
13C8-PFOS

F34:MRM of 1 channel,ES-
507.0 > 79.9
9.746e+004



d3-N-MeFOSAA

F49:MRM of 1 channel,ES-
573.3 > 419
1.566e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

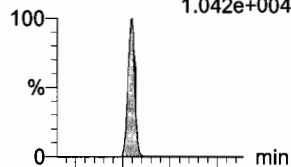
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

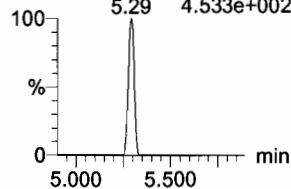
Name: 180130M2_4, Date: 30-Jan-2018, Time: 12:07:36, ID: ST180130M2-3 PFC CS0 18A1906, Description: PFC CS0 18A1906

N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
1.042e+004

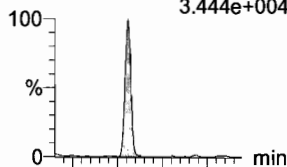


F50:MRM of 2 channels,ES-
584.2 > 483.0
4.533e+002

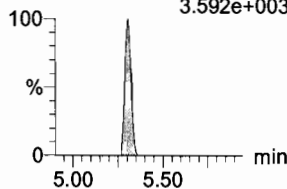


PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
3.444e+004

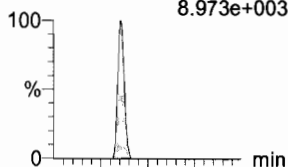


F45:MRM of 2 channels,ES-
563.0 > 269
3.592e+003

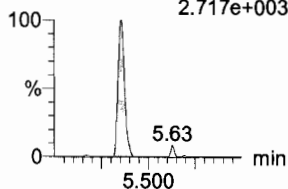


PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
8.973e+003

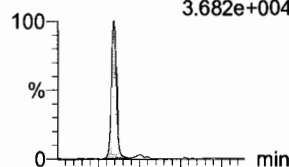


F52:MRM of 2 channels,ES-
598.8 > 98.7
2.717e+003

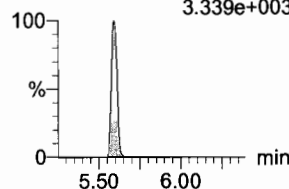


PFDaA

F53:MRM of 4 channels,ES-
612.9 > 569.0
3.682e+004

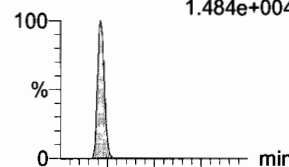


F53:MRM of 4 channels,ES-
612.9 > 318.8
3.339e+003

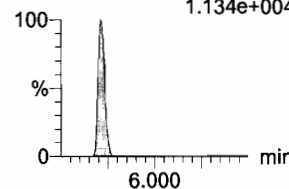


N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
1.484e+004

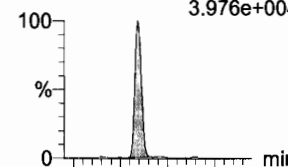


F35:MRM of 2 channels,ES-
512.1 > 219
1.134e+004

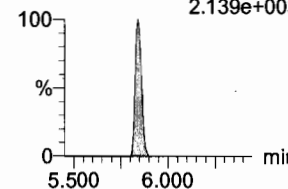


PFTrDA

F59:MRM of 2 channels,ES-
662.9 > 618.9
3.976e+004

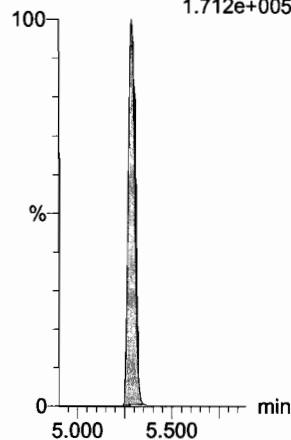


F59:MRM of 2 channels,ES-
662.9 > 319
2.139e+003



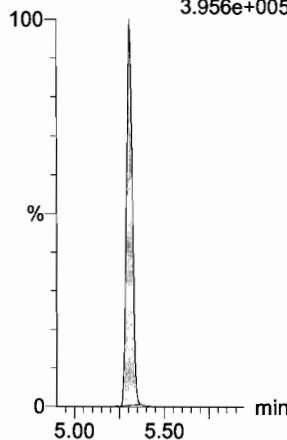
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.712e+005



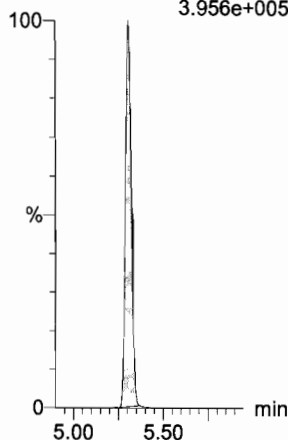
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.956e+005



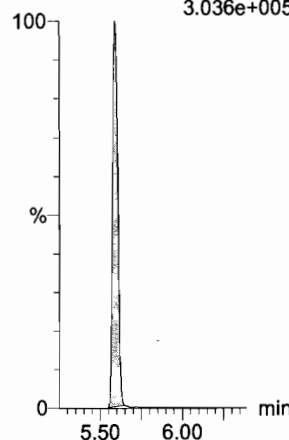
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.956e+005



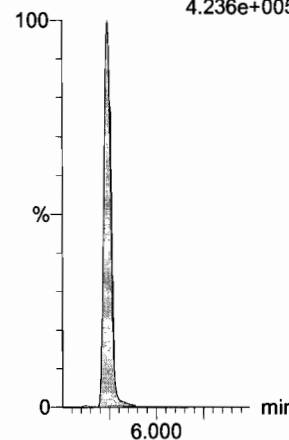
13C2-PFDaA

F54:MRM of 2 channels,ES-
615.0 > 569.7
3.036e+005



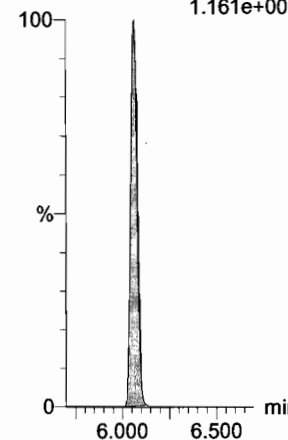
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
4.236e+005



13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.161e+005

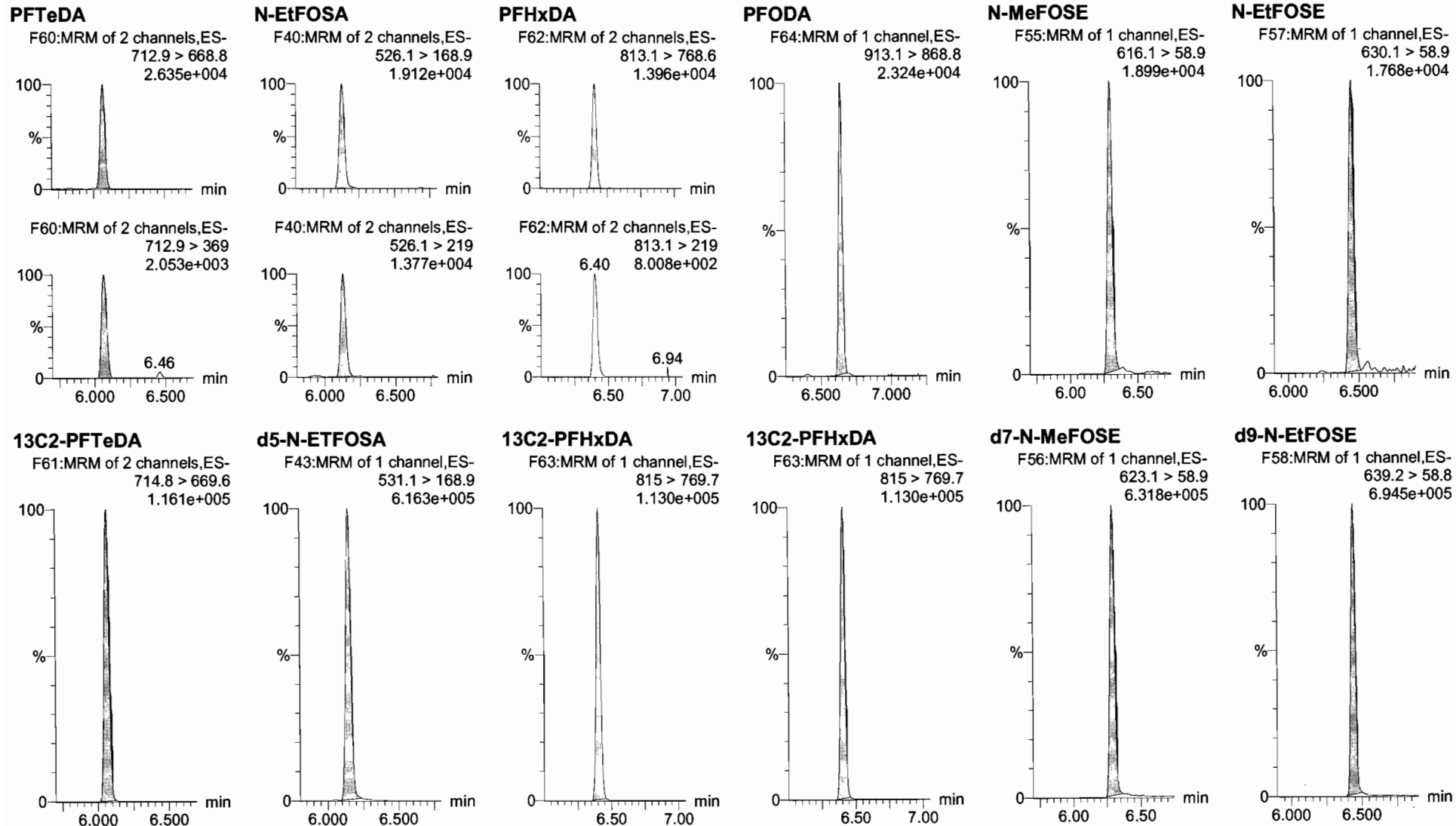


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_4, Date: 30-Jan-2018, Time: 12:07:36, ID: ST180130M2-3 PFC CS0 18A1906, Description: PFC CS0 18A1906



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

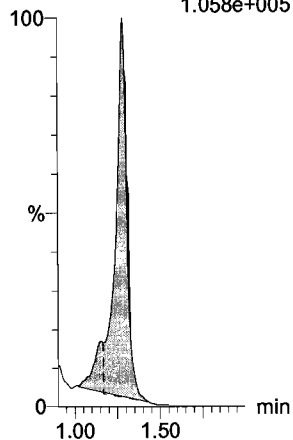
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_4, Date: 30-Jan-2018, Time: 12:07:36, ID: ST180130M2-3 PFC CS0 18A1906, Description: PFC CS0 18A1906

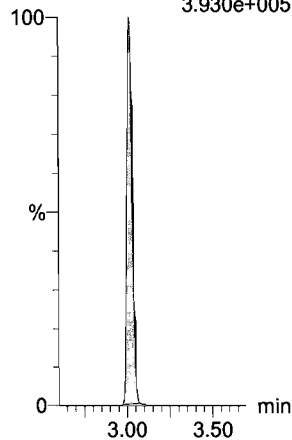
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.058e+005



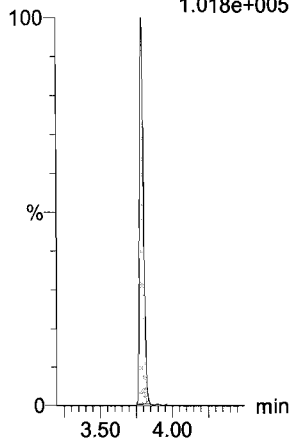
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.930e+005



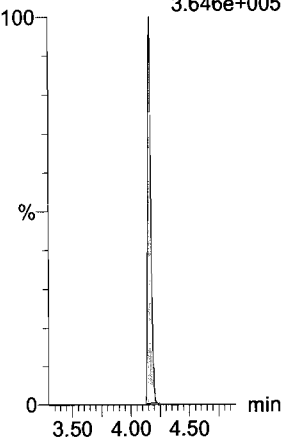
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
1.018e+005



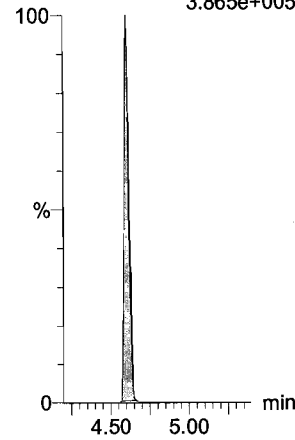
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
3.646e+005



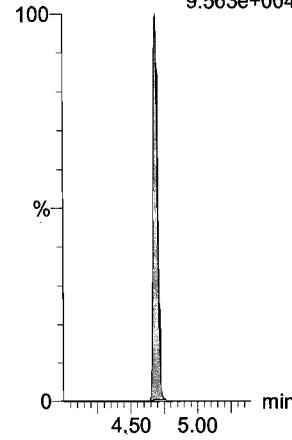
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
3.865e+005



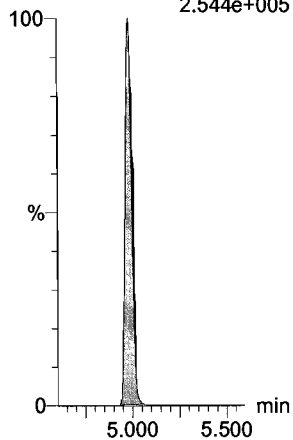
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
9.563e+004



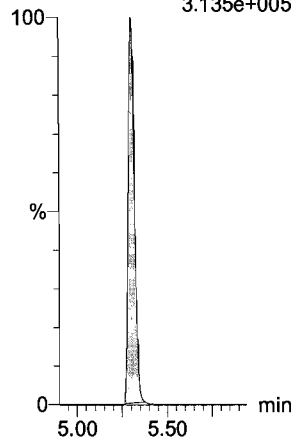
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
2.544e+005



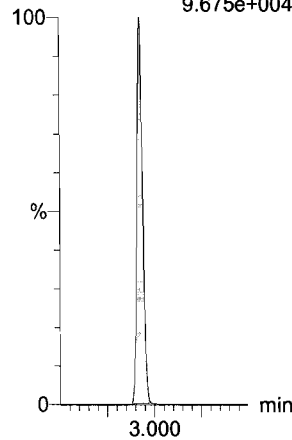
13C7-PFUdA

F48:MRM of 1 channel,ES-
570.1 > 524.8
3.135e+005



13C2-4:2 FTS

F12:MRM of 1 channel,ES-
329.2 > 308.9
9.675e+004



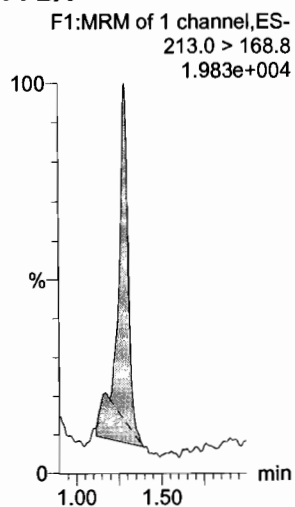
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

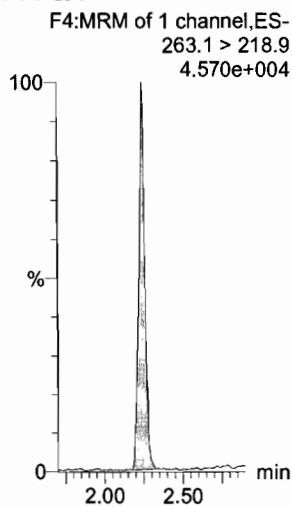
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_5, Date: 30-Jan-2018, Time: 12:19:06, ID: ST180130M2-4 PFC CS1 18A1907, Description: PFC CS1 18A1907

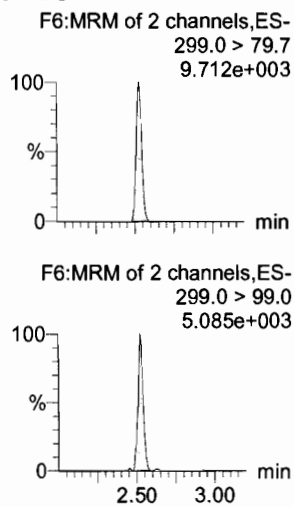
PFBA



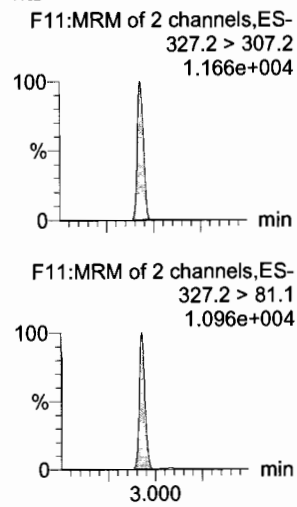
PFPeA



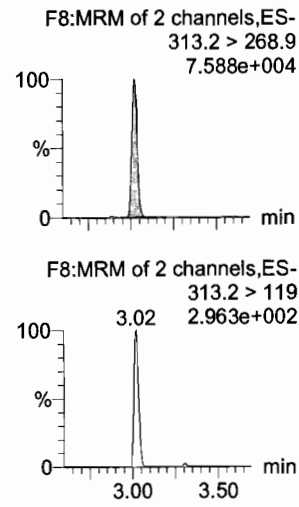
PFBS



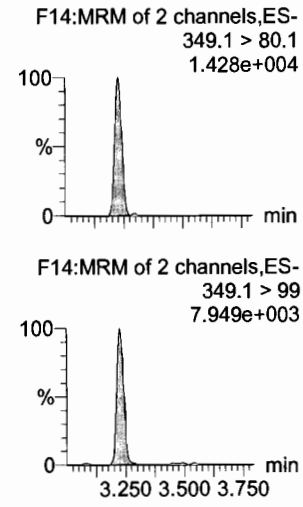
4:2 FTS



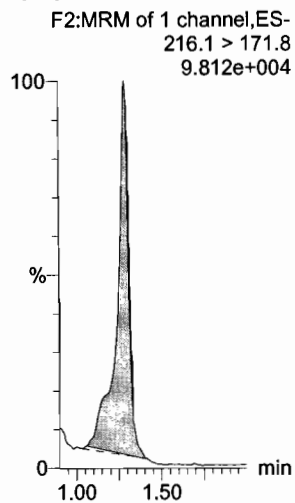
PFHxA



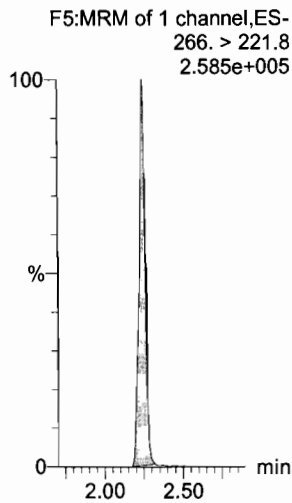
PFPeS



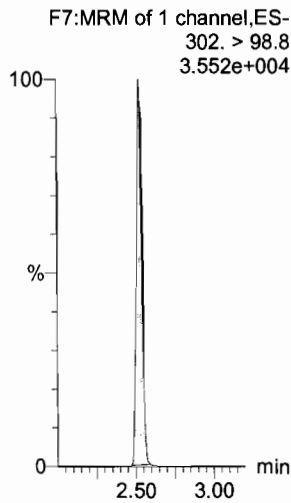
13C3-PFBA



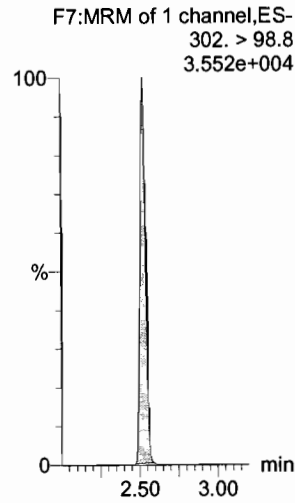
13C3-PFPeA



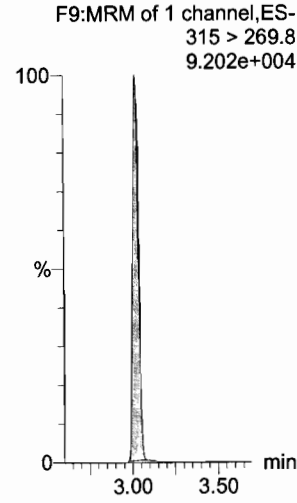
13C3-PFBS



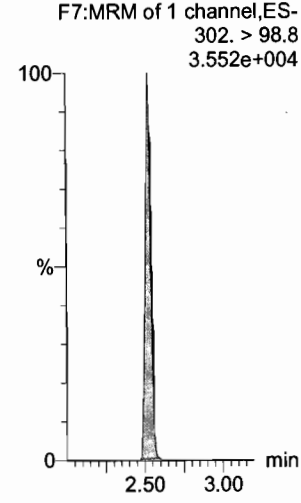
13C3-PFBS



13C2-PFHxA



13C3-PFBS



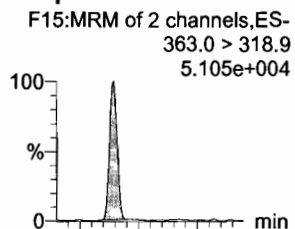
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

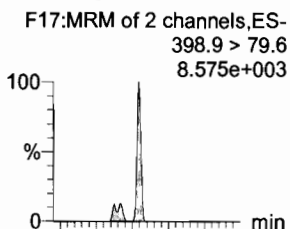
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_5, Date: 30-Jan-2018, Time: 12:19:06, ID: ST180130M2-4 PFC CS1 18A1907, Description: PFC CS1 18A1907

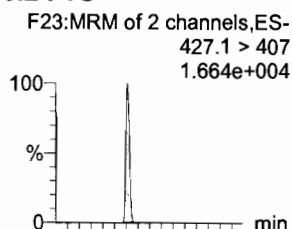
PFHpA



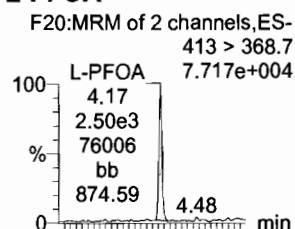
L-PFHxS



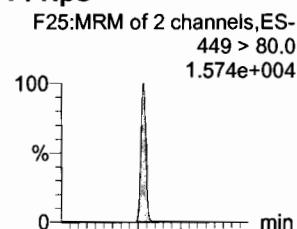
6:2 FTS



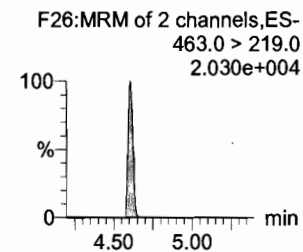
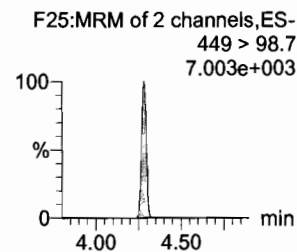
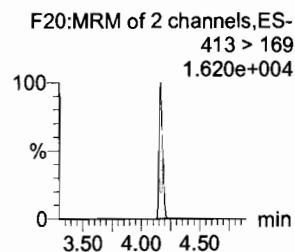
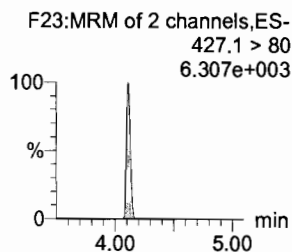
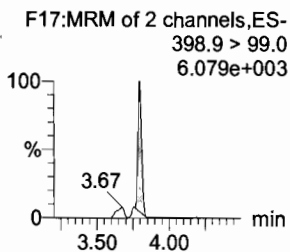
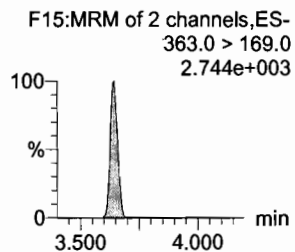
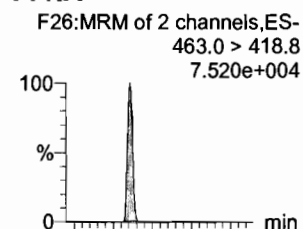
L-PFOA



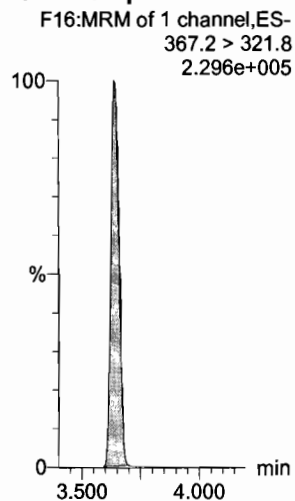
PFHpS



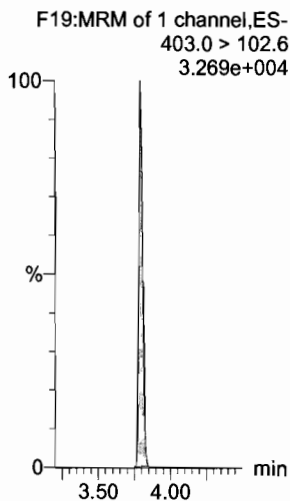
PFNA



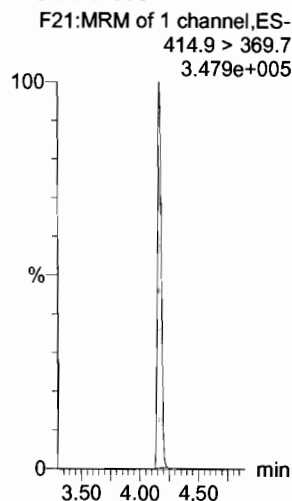
13C4-PFHpa



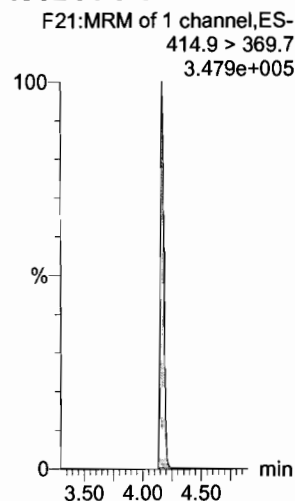
18O2-PFHxS



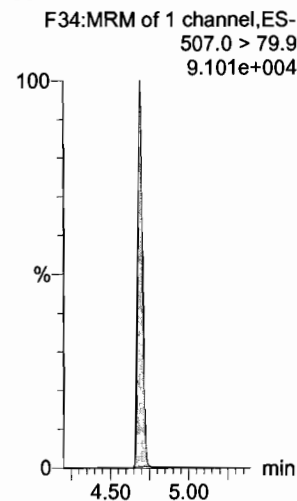
13C2-PFOA



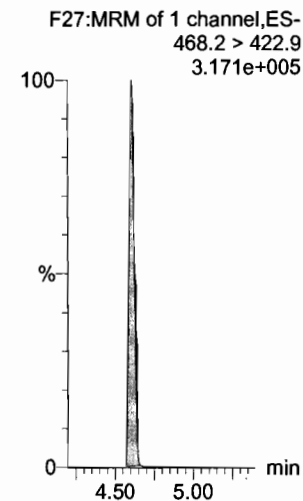
13C2-PFOA



13C8-PFOS



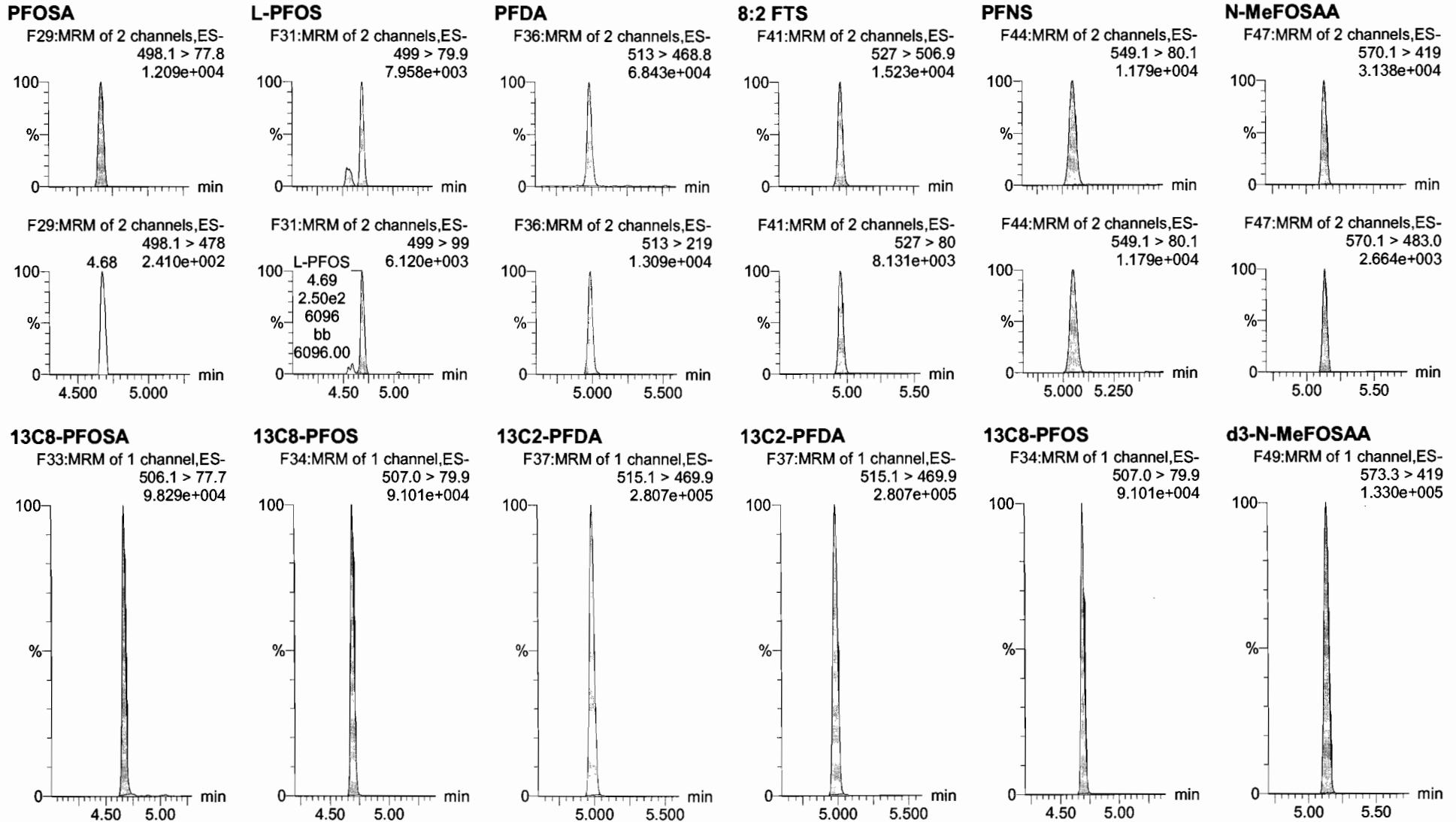
13C5-PFNA



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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Name: 180130M2_5, Date: 30-Jan-2018, Time: 12:19:06, ID: ST180130M2-4 PFC CS1 18A1907, Description: PFC CS1 18A1907



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

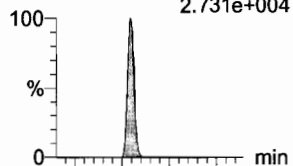
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

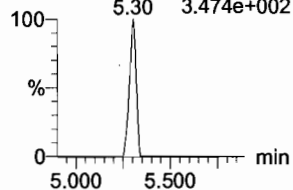
Name: 180130M2_5, Date: 30-Jan-2018, Time: 12:19:06, ID: ST180130M2-4 PFC CS1 18A1907, Description: PFC CS1 18A1907

N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
2.731e+004

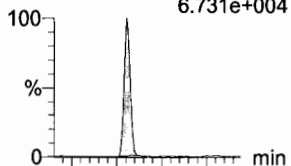


F50:MRM of 2 channels,ES-
584.2 > 483.0
3.474e+002

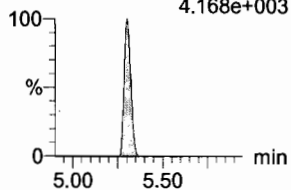


PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
6.731e+004

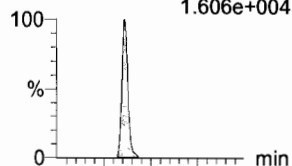


F45:MRM of 2 channels,ES-
563.0 > 269
4.168e+003

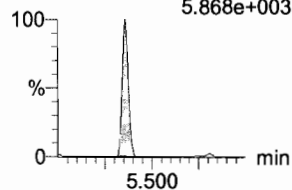


PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
1.606e+004

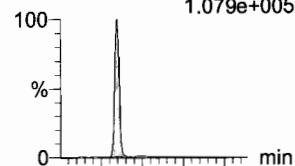


F52:MRM of 2 channels,ES-
598.8 > 98.7
5.868e+003

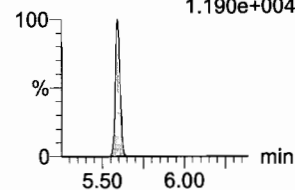


PFDdA

F53:MRM of 4 channels,ES-
612.9 > 569.0
1.079e+005

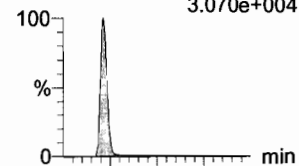


F53:MRM of 4 channels,ES-
612.9 > 318.8
1.190e+004

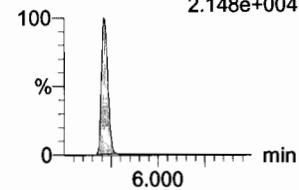


N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
3.070e+004

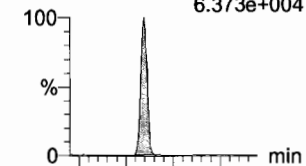


F35:MRM of 2 channels,ES-
512.1 > 219
2.148e+004

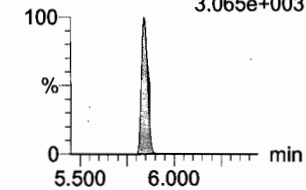


PFTrDA

F59:MRM of 2 channels,ES-
662.9 > 618.9
6.373e+004

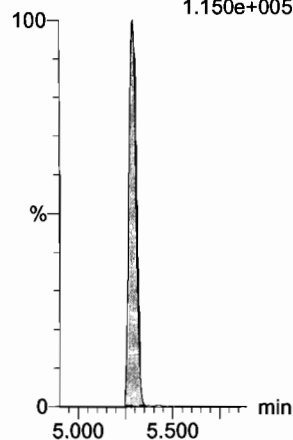


F59:MRM of 2 channels,ES-
662.9 > 319
3.065e+003



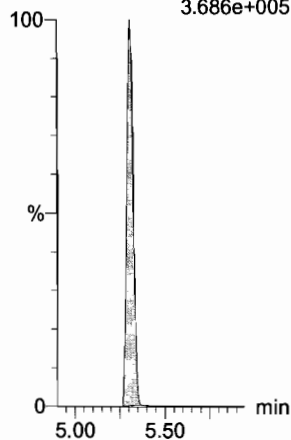
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.150e+005



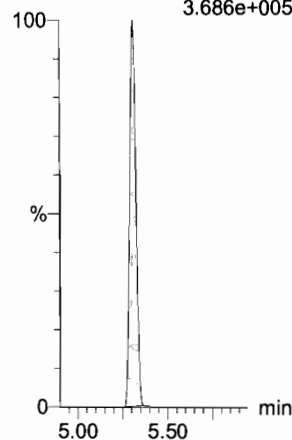
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.686e+005



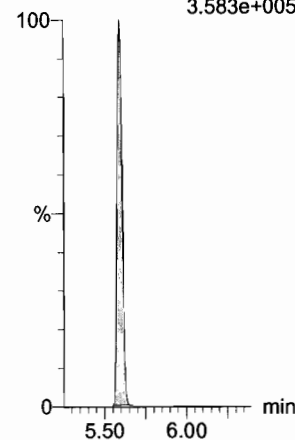
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.686e+005



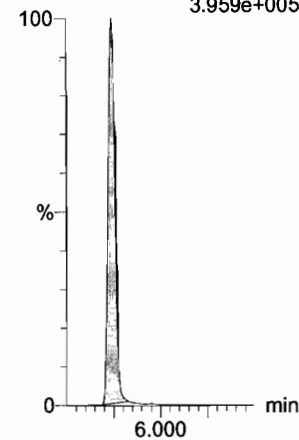
13C2-PFDdA

F54:MRM of 2 channels,ES-
615.0 > 569.7
3.583e+005



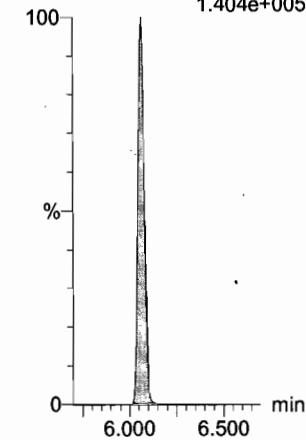
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
3.959e+005



13C2-PFTeDA

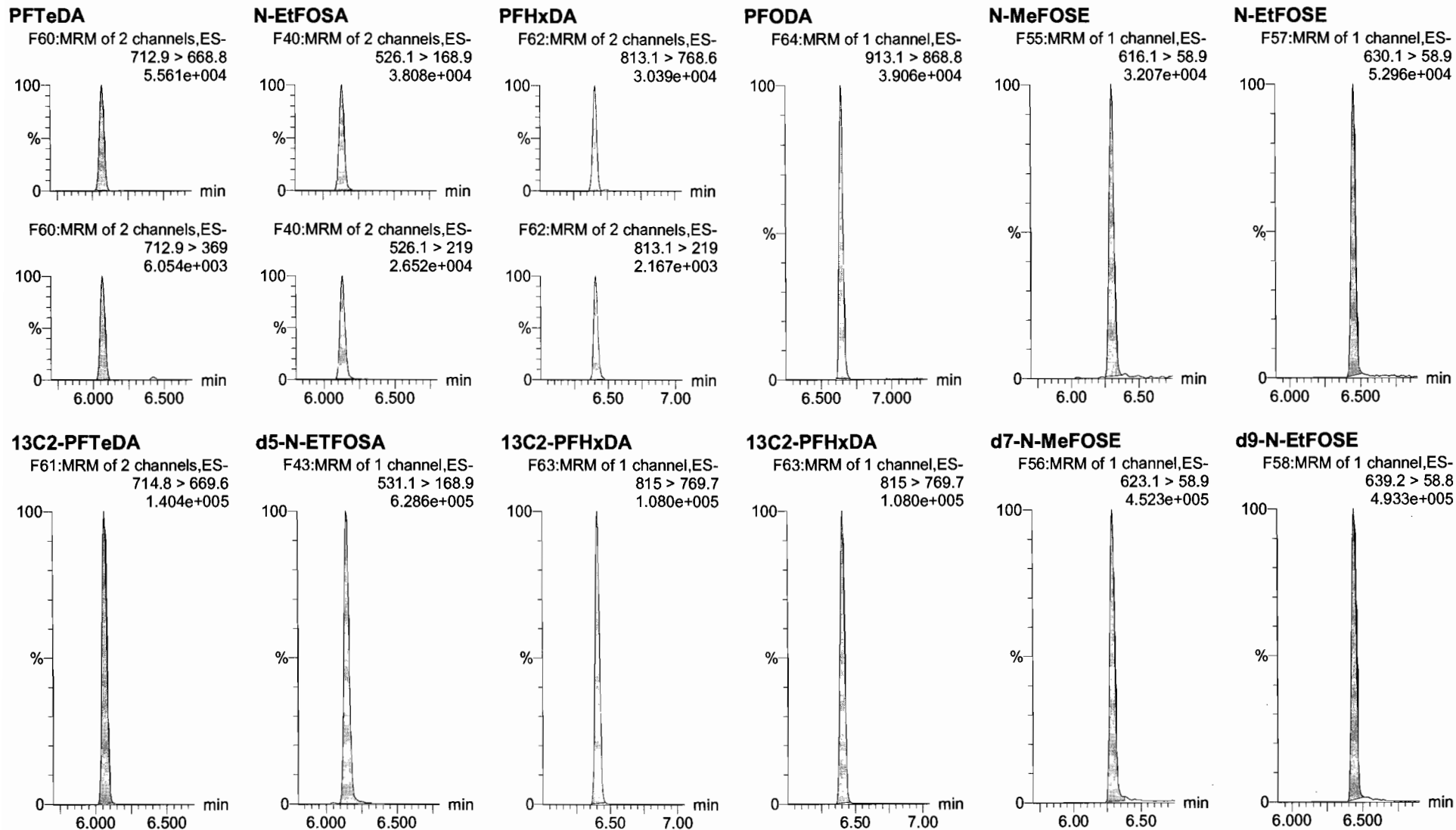
F61:MRM of 2 channels,ES-
714.8 > 669.6
1.404e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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Name: 180130M2_5, Date: 30-Jan-2018, Time: 12:19:06, ID: ST180130M2-4 PFC CS1 18A1907, Description: PFC CS1 18A1907



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

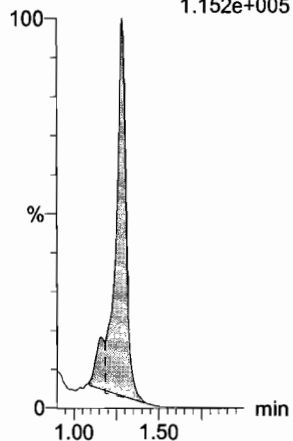
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_5, Date: 30-Jan-2018, Time: 12:19:06, ID: ST180130M2-4 PFC CS1 18A1907, Description: PFC CS1 18A1907

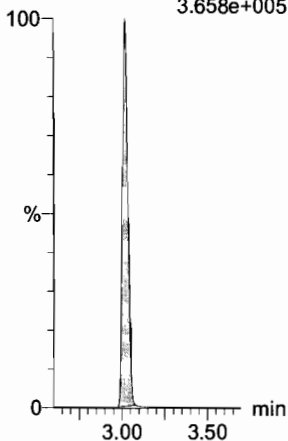
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.152e+005



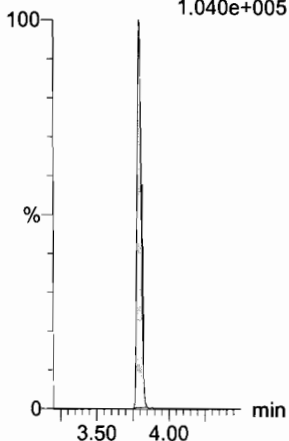
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.658e+005



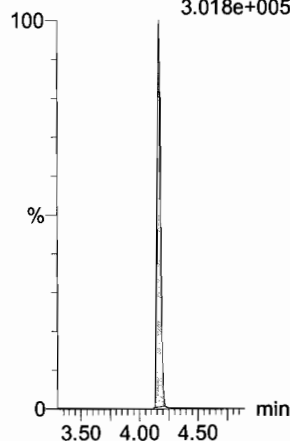
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
1.040e+005



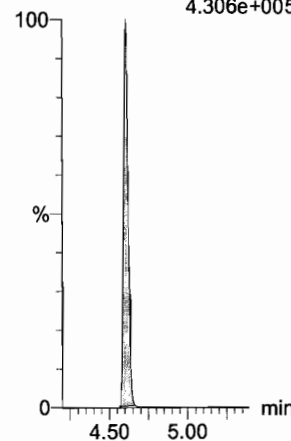
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
3.018e+005



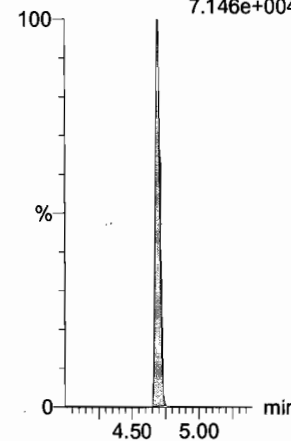
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
4.306e+005



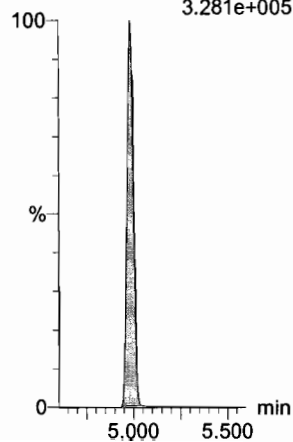
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
7.146e+004



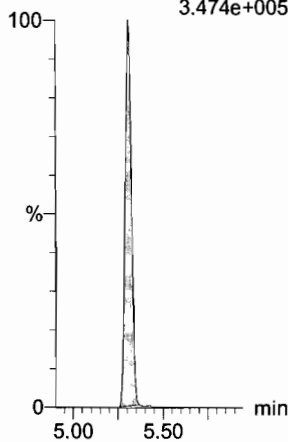
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
3.281e+005



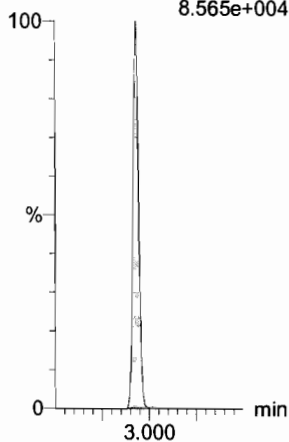
13C7-PFuDA

F48:MRM of 1 channel,ES-
570.1 > 524.8
3.474e+005



13C2-4:2 FTS

F12:MRM of 1 channel,ES-
329.2 > 308.9
8.565e+004

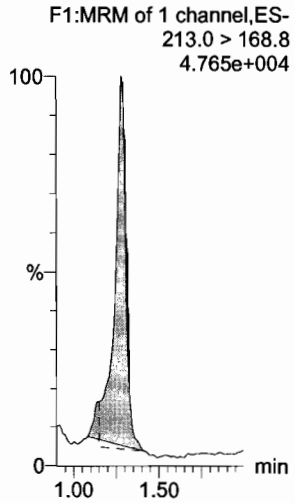


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

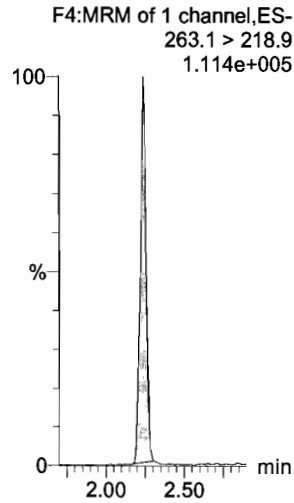
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_6, Date: 30-Jan-2018, Time: 12:30:35, ID: ST180130M2-5 PFC CS2 18A1908, Description: PFC CS2 18A1908

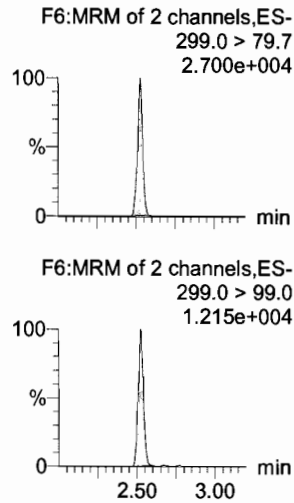
PFBA



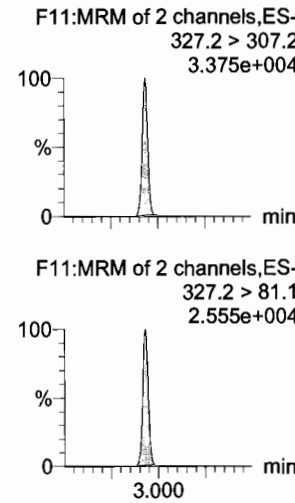
PFPeA



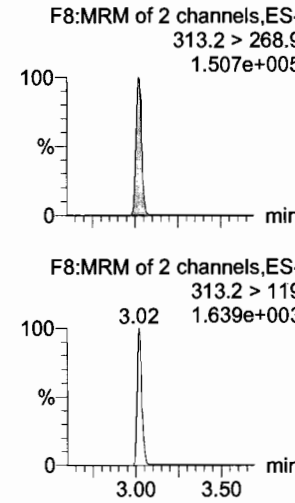
PFBS



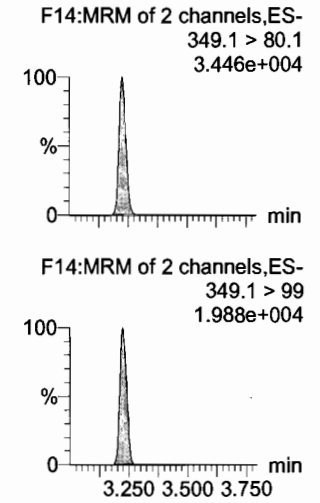
4:2 FTS



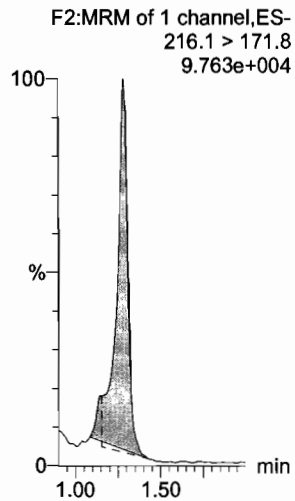
PFHxA



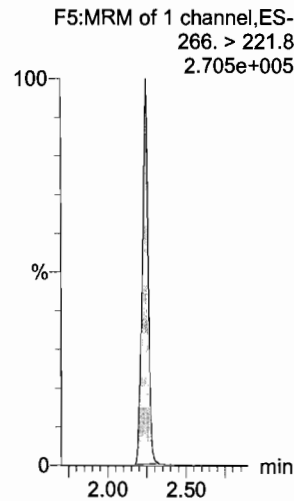
PFPeS



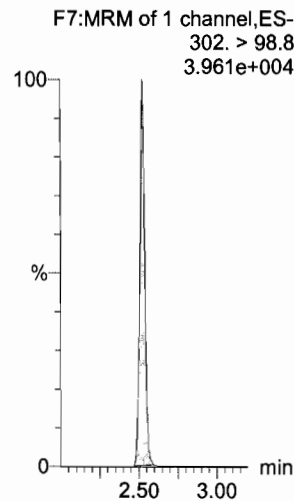
13C3-PFBA



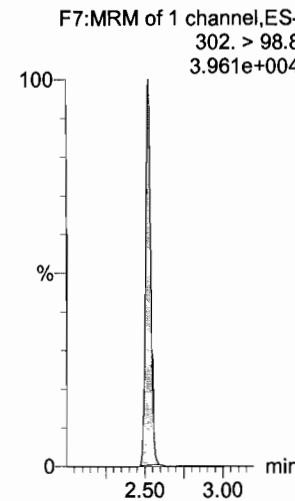
13C3-PFPeA



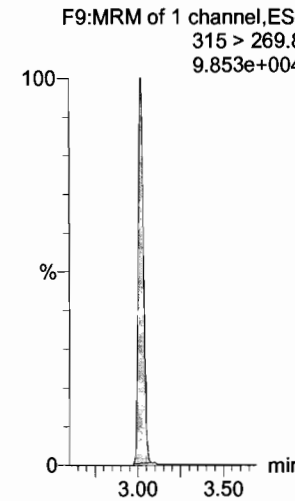
13C3-PFBS



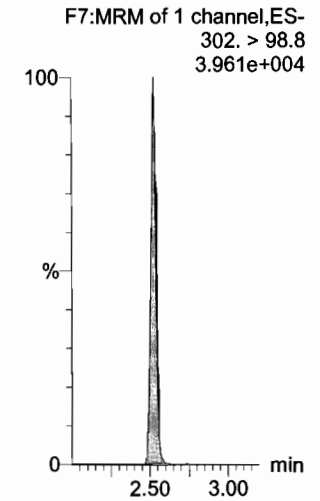
13C3-PFBS



13C2-PFHxA



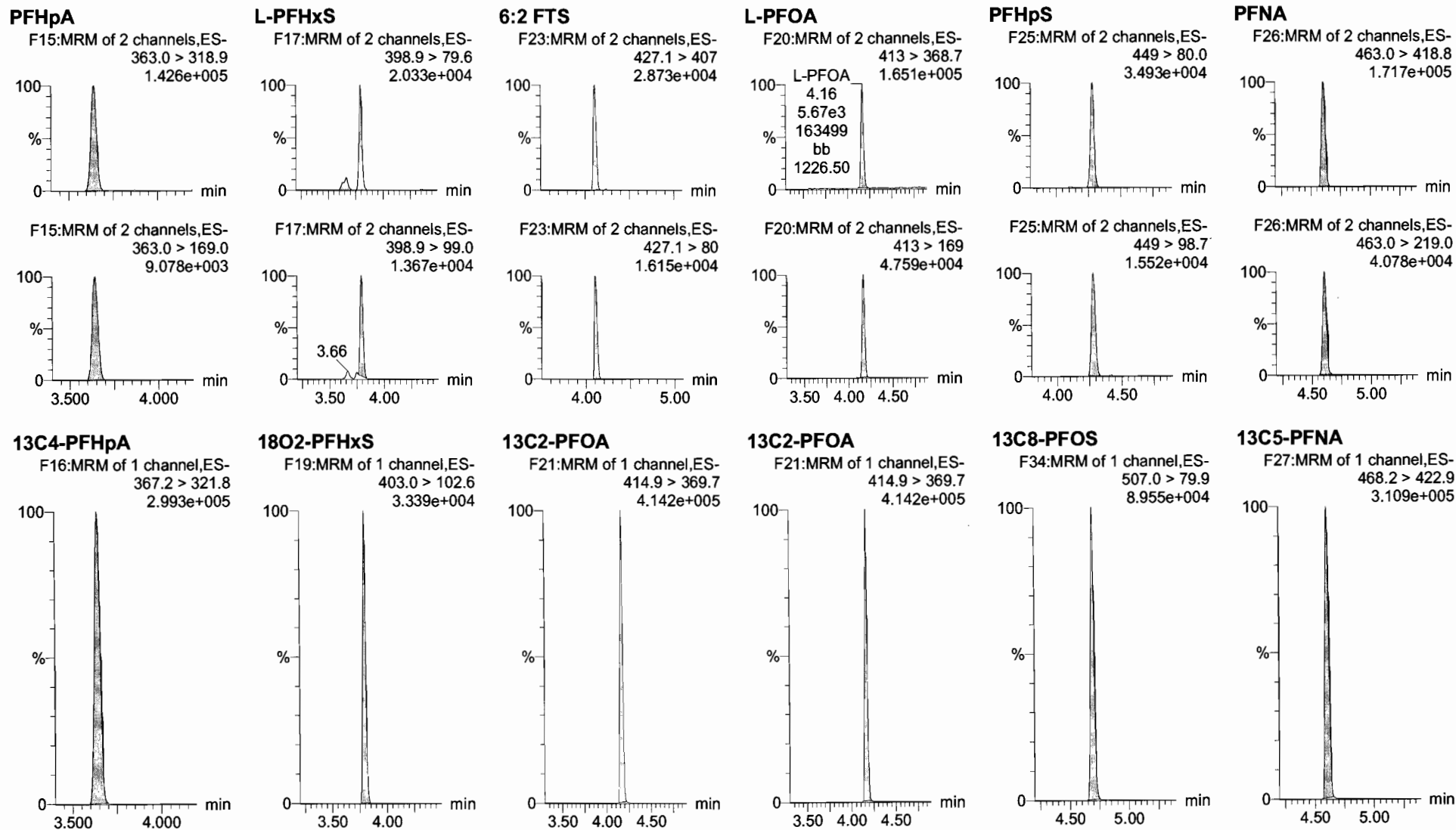
13C3-PFBS



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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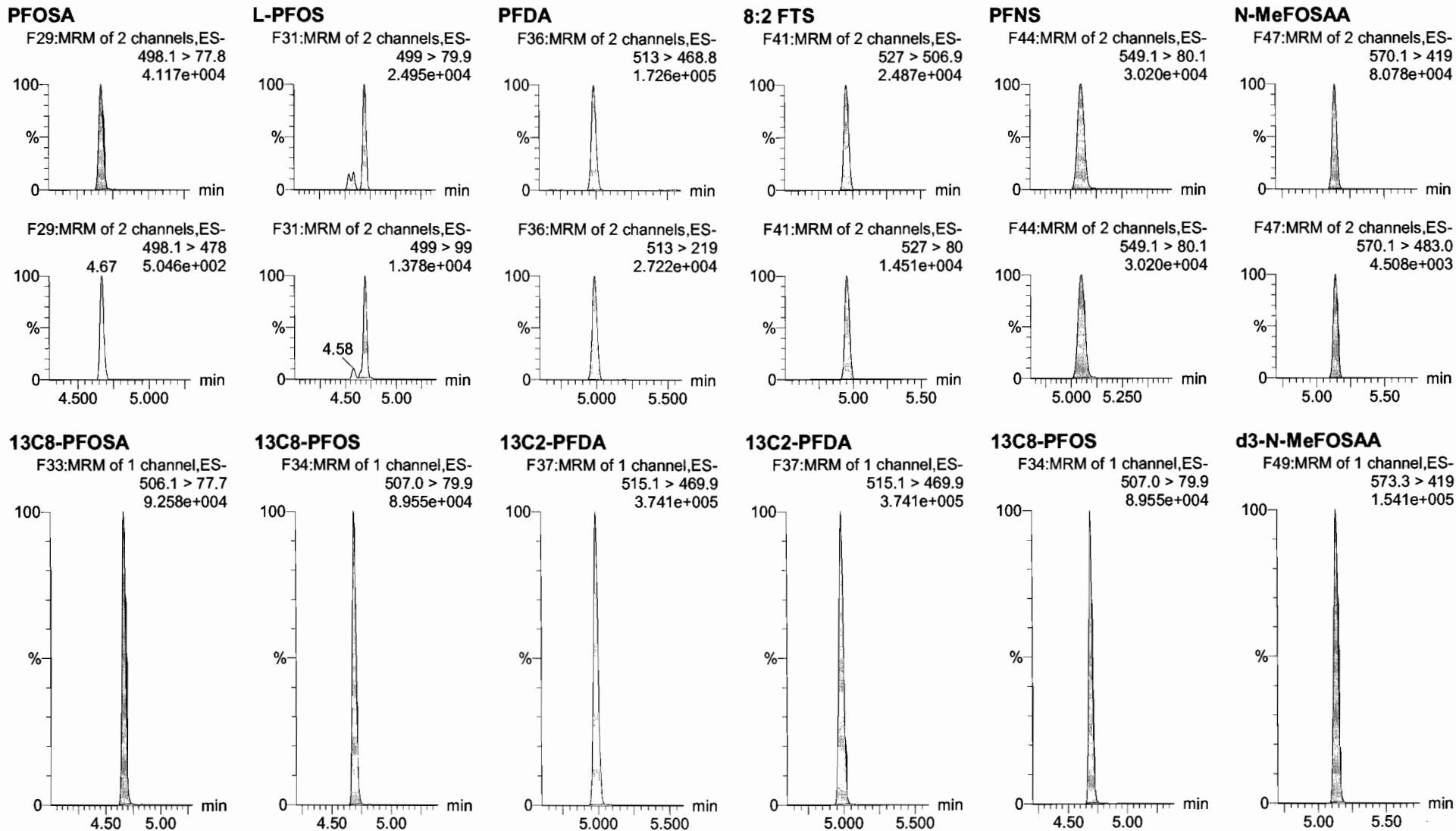
Name: 180130M2_6, Date: 30-Jan-2018, Time: 12:30:35, ID: ST180130M2-5 PFC CS2 18A1908, Description: PFC CS2 18A1908



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_6, Date: 30-Jan-2018, Time: 12:30:35, ID: ST180130M2-5 PFC CS2 18A1908, Description: PFC CS2 18A1908



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

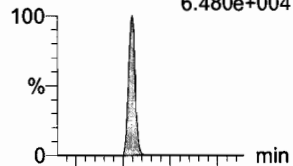
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

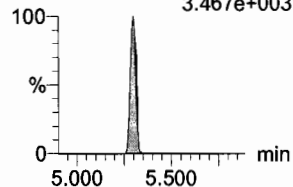
Name: 180130M2_6, Date: 30-Jan-2018, Time: 12:30:35, ID: ST180130M2-5 PFC CS2 18A1908, Description: PFC CS2 18A1908

N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
6.480e+004

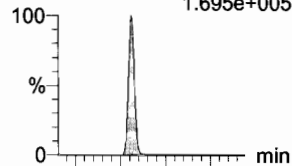


F50:MRM of 2 channels,ES-
584.2 > 483.0
3.467e+003

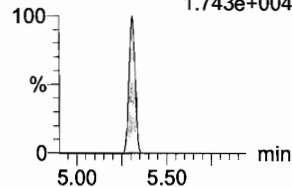


PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
1.695e+005

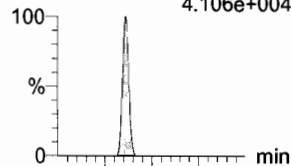


F45:MRM of 2 channels,ES-
563.0 > 269
1.743e+004

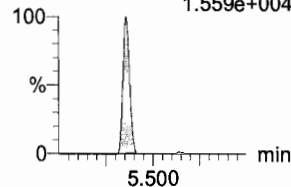


PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
4.106e+004

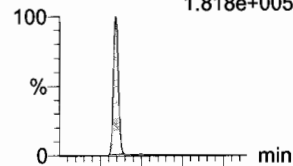


F52:MRM of 2 channels,ES-
598.8 > 98.7
1.559e+004

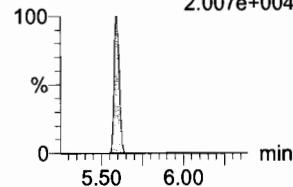


PFDoA

F53:MRM of 4 channels,ES-
612.9 > 569.0
1.818e+005

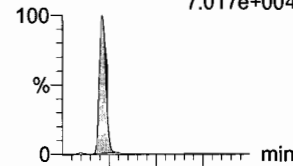


F53:MRM of 4 channels,ES-
612.9 > 318.8
2.007e+004

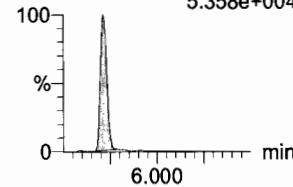


N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
7.017e+004

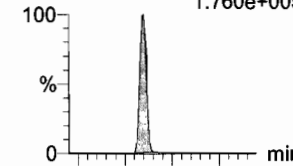


F35:MRM of 2 channels,ES-
512.1 > 219
5.358e+004

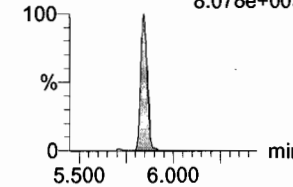


PFTrDA

F59:MRM of 2 channels,ES-
662.9 > 618.9
1.760e+005

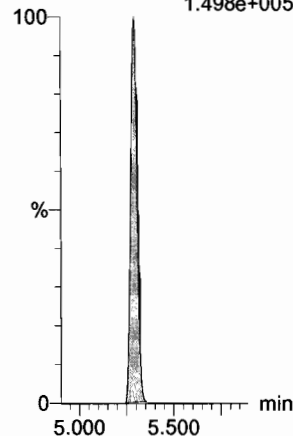


F59:MRM of 2 channels,ES-
662.9 > 319
8.078e+003



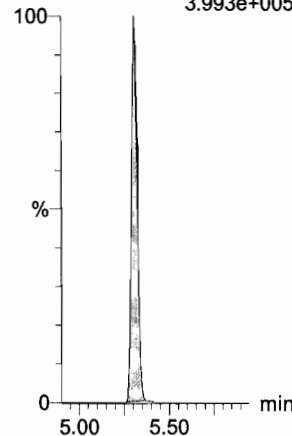
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.498e+005



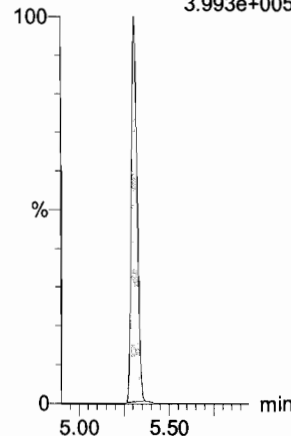
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.993e+005



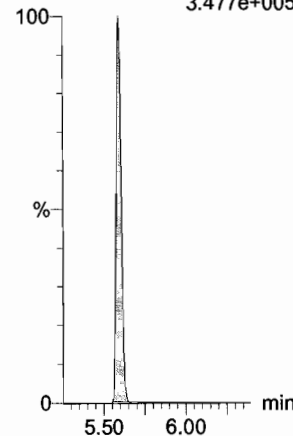
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.993e+005



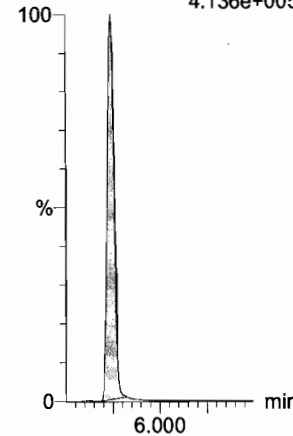
13C2-PFDoA

F54:MRM of 2 channels,ES-
615.0 > 569.7
3.477e+005



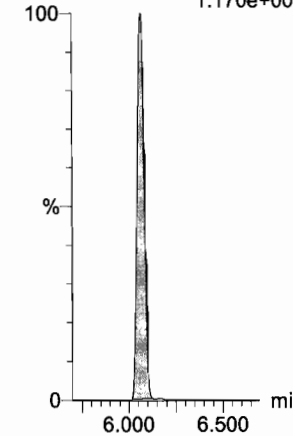
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
4.136e+005



13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.170e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

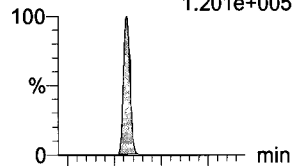
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

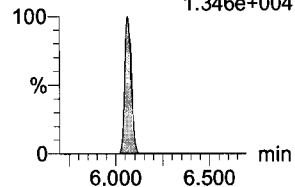
Name: 180130M2_6, Date: 30-Jan-2018, Time: 12:30:35, ID: ST180130M2-5 PFC CS2 18A1908, Description: PFC CS2 18A1908

PFTeDA

F60:MRM of 2 channels,ES-
712.9 > 668.8
1.201e+005

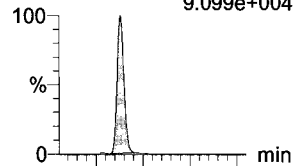


F60:MRM of 2 channels,ES-
712.9 > 369
1.346e+004

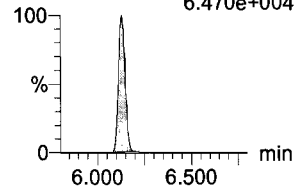


N-EtFOSA

F40:MRM of 2 channels,ES-
526.1 > 168.9
9.099e+004

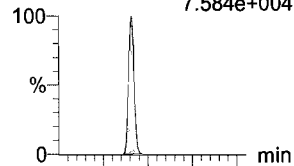


F40:MRM of 2 channels,ES-
526.1 > 219
6.470e+004

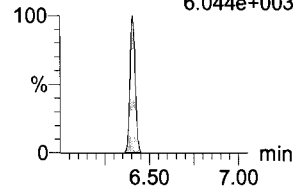


PFHxDA

F62:MRM of 2 channels,ES-
813.1 > 768.6
7.584e+004

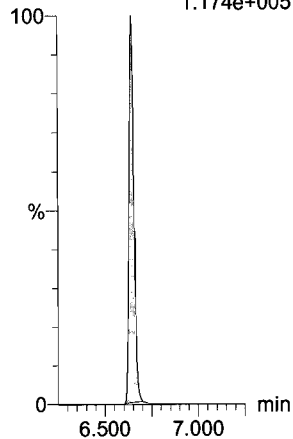


F62:MRM of 2 channels,ES-
813.1 > 219
6.044e+003



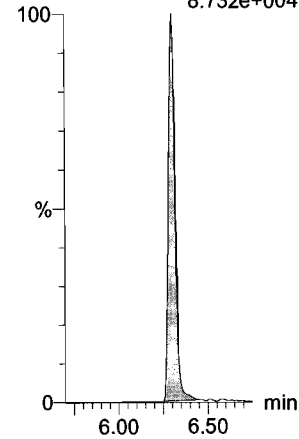
PFODA

F64:MRM of 1 channel,ES-
913.1 > 868.8
1.174e+005



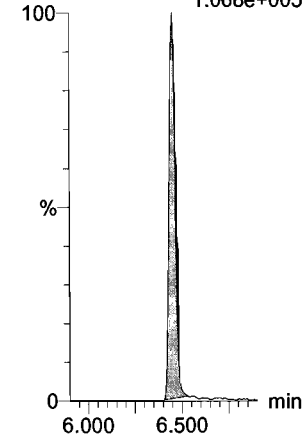
N-MeFOSE

F55:MRM of 1 channel,ES-
616.1 > 58.9
8.732e+004



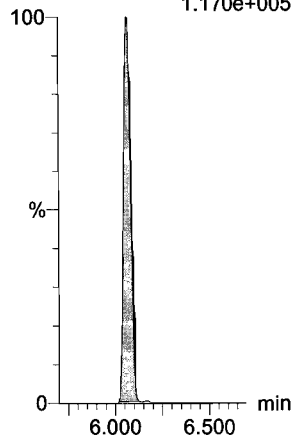
N-EtFOSE

F57:MRM of 1 channel,ES-
630.1 > 58.9
1.068e+005



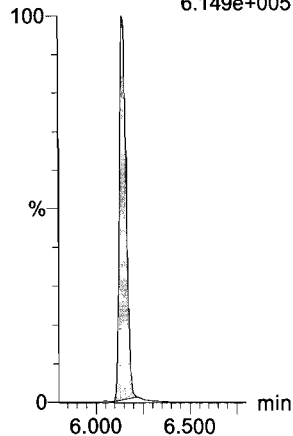
13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.170e+005



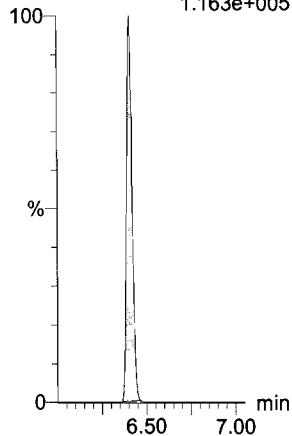
d5-N-ETFOSA

F43:MRM of 1 channel,ES-
531.1 > 168.9
6.149e+005



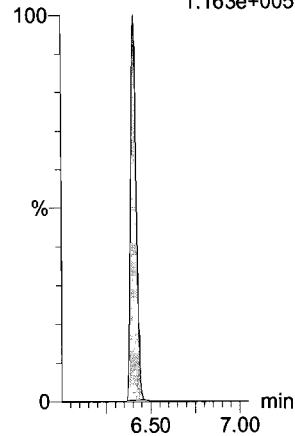
13C2-PFHxDA

F63:MRM of 1 channel,ES-
815 > 769.7
1.163e+005



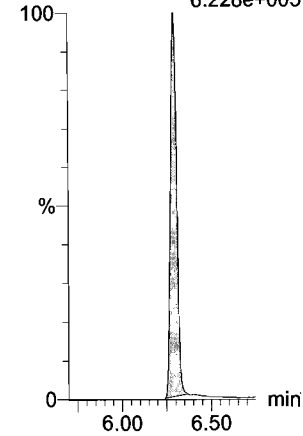
13C2-PFHxDA

F63:MRM of 1 channel,ES-
815 > 769.7
1.163e+005



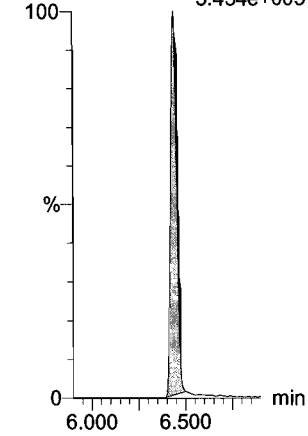
d7-N-MeFOSE

F56:MRM of 1 channel,ES-
623.1 > 58.9
6.228e+005



d9-N-EtFOSE

F58:MRM of 1 channel,ES-
639.2 > 58.8
5.434e+005



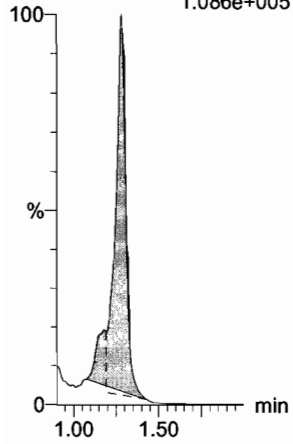
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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Name: 180130M2_6, Date: 30-Jan-2018, Time: 12:30:35, ID: ST180130M2-5 PFC CS2 18A1908, Description: PFC CS2 18A1908

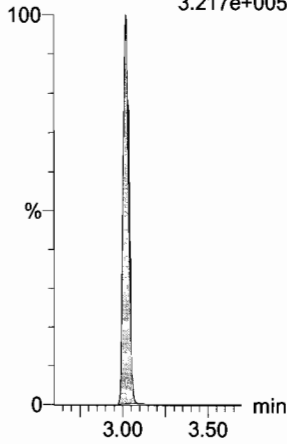
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.086e+005



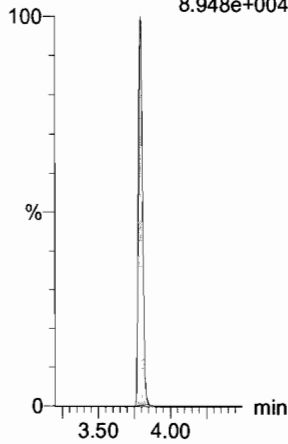
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.217e+005



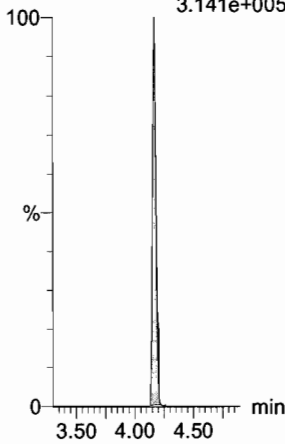
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
8.948e+004



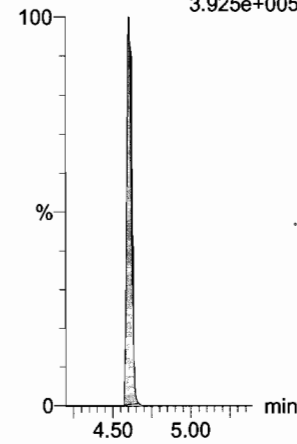
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
3.141e+005



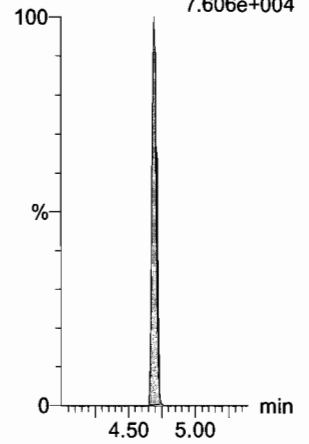
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
3.925e+005



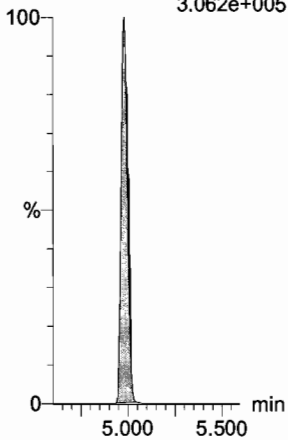
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
7.606e+004



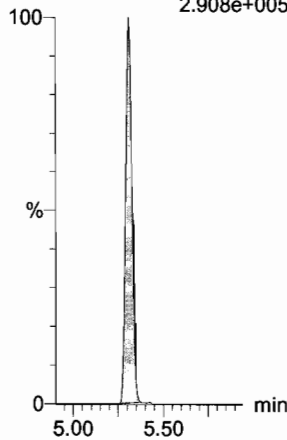
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
3.062e+005



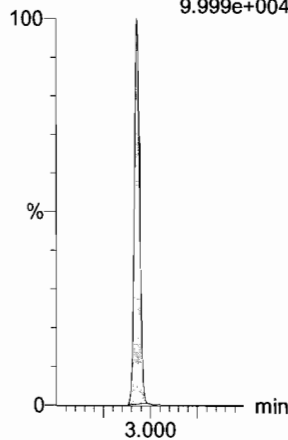
13C7-PFuDA

F48:MRM of 1 channel,ES-
570.1 > 524.8
2.908e+005



13C2-4:2 FTS

F12:MRM of 1 channel,ES-
329.2 > 308.9
9.999e+004

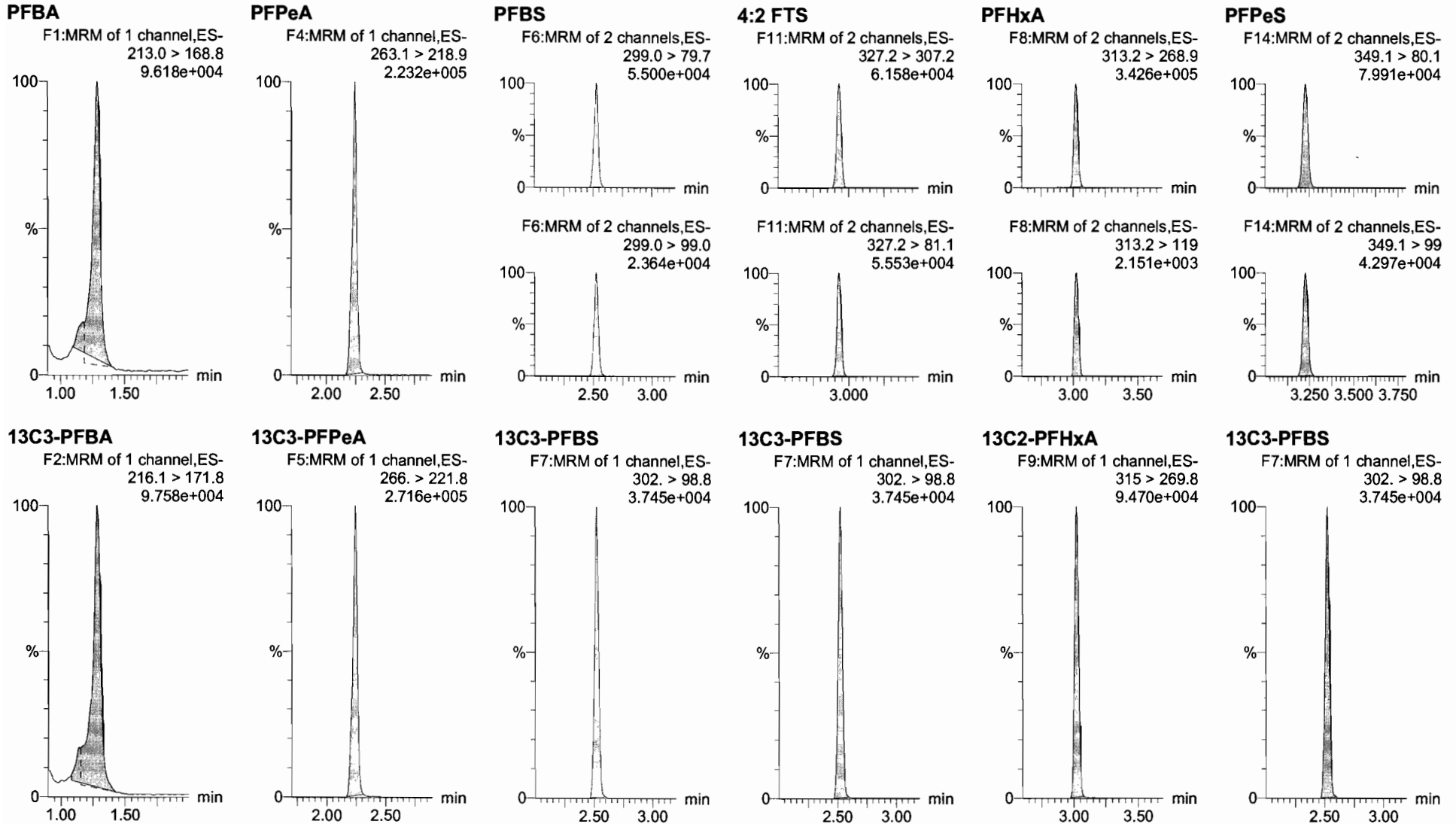


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_7, Date: 30-Jan-2018, Time: 12:42:05, ID: ST180130M2-6 PFC CS3 18A1909, Description: PFC CS3 18A1909



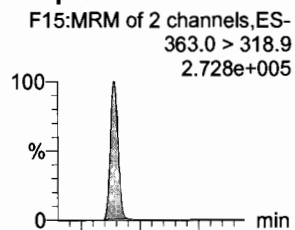
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

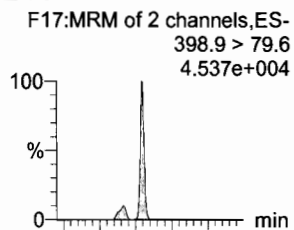
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_7, Date: 30-Jan-2018, Time: 12:42:05, ID: ST180130M2-6 PFC CS3 18A1909, Description: PFC CS3 18A1909

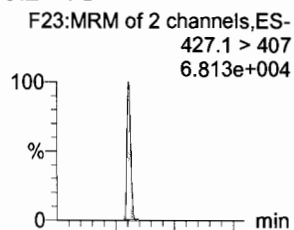
PFHpA



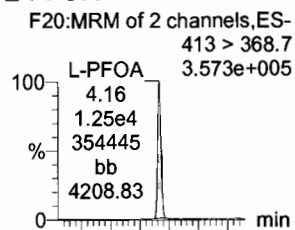
L-PFHxS



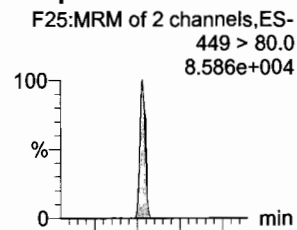
6:2 FTS



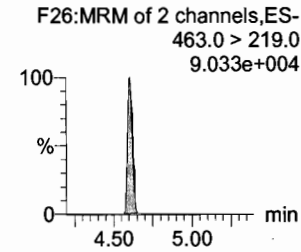
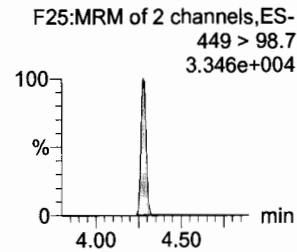
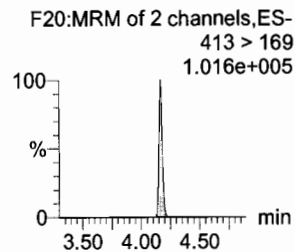
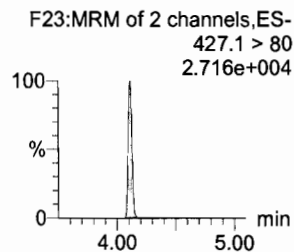
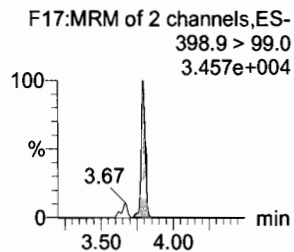
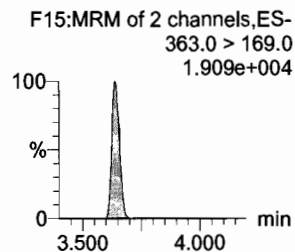
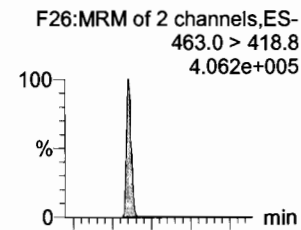
L-PFOA



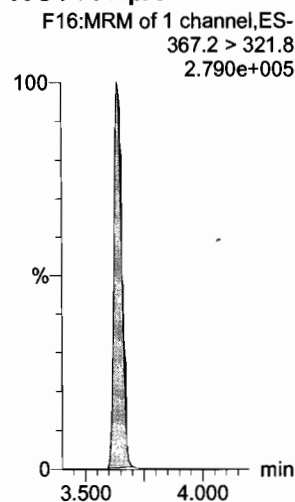
PFHpS



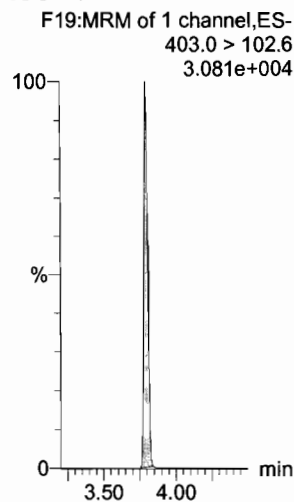
PFNA



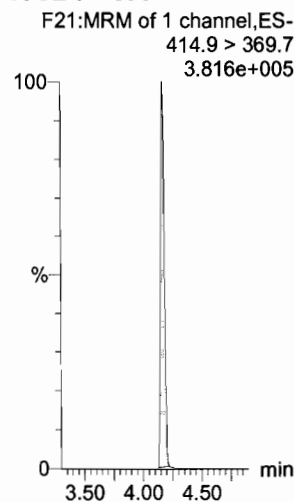
13C4-PFHpA



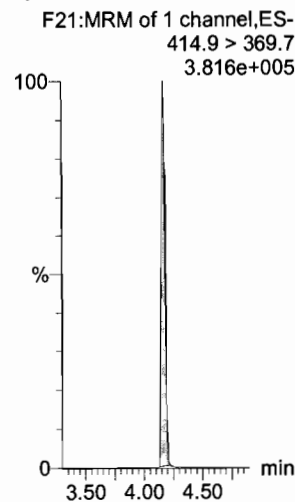
18O2-PFHxS



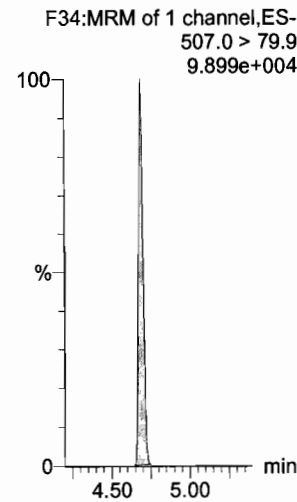
13C2-PFOA



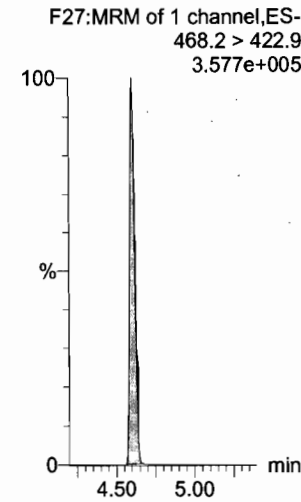
13C2-PFOA



13C8-PFOS



13C5-PFNA

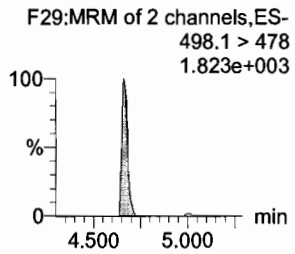
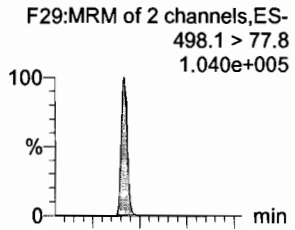


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

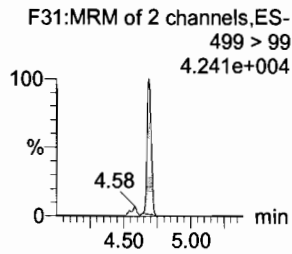
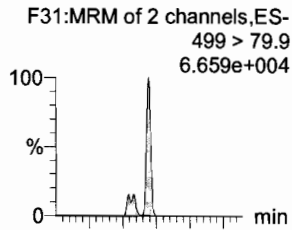
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Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_7, Date: 30-Jan-2018, Time: 12:42:05, ID: ST180130M2-6 PFC CS3 18A1909, Description: PFC CS3 18A1909

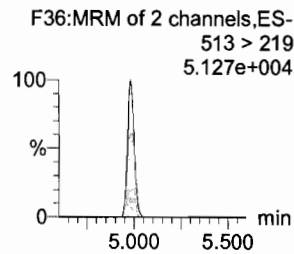
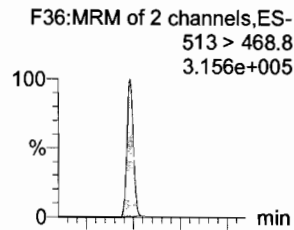
PFOSA



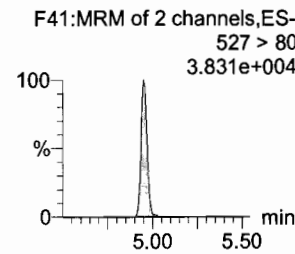
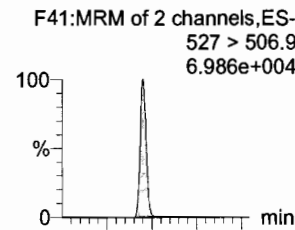
L-PFOS



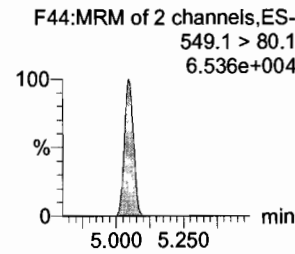
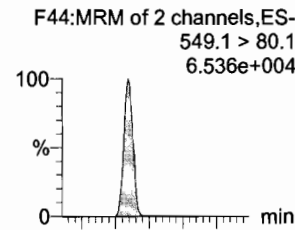
PFDA



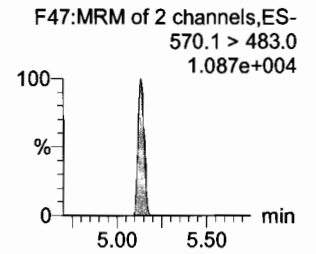
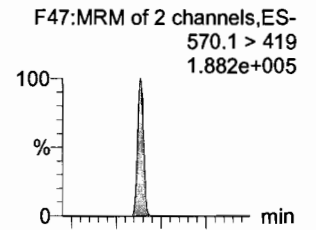
8:2 FTS



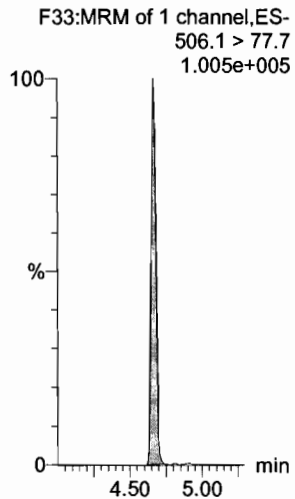
PFNS



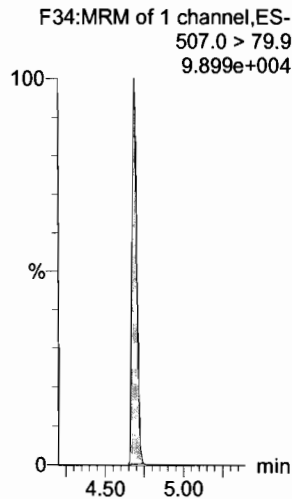
N-MeFOSAA



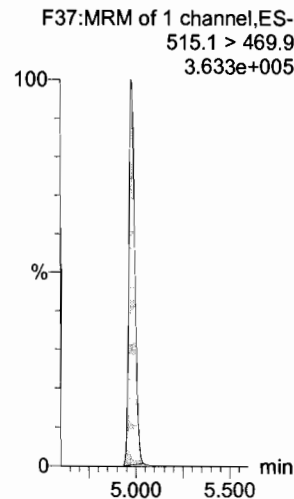
13C8-PFOSA



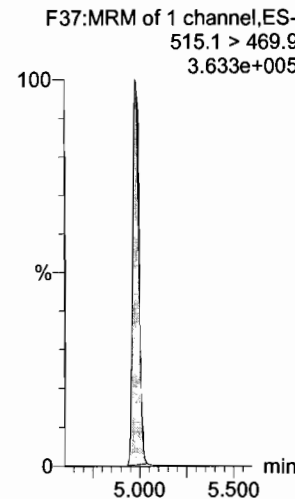
13C8-PFOS



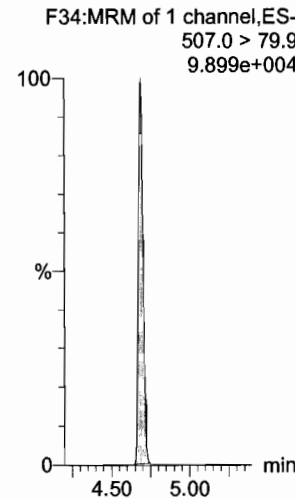
13C2-PFDA



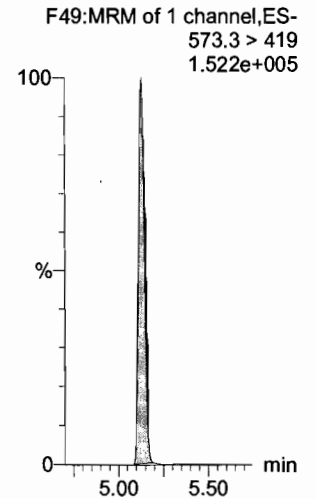
13C2-PFDA



13C8-PFOS



d3-N-MeFOSAA



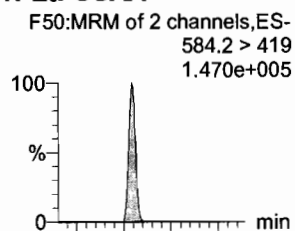
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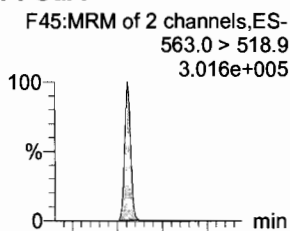
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Name: 180130M2_7, Date: 30-Jan-2018, Time: 12:42:05, ID: ST180130M2-6 PFC CS3 18A1909, Description: PFC CS3 18A1909

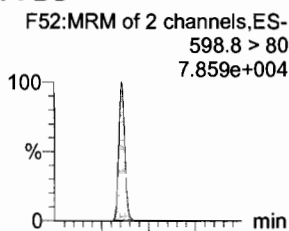
N-EtFOSAA



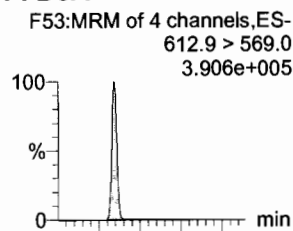
PFUdA



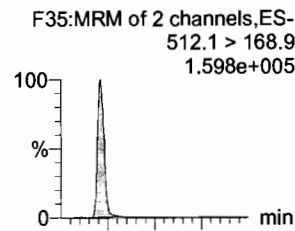
PFDS



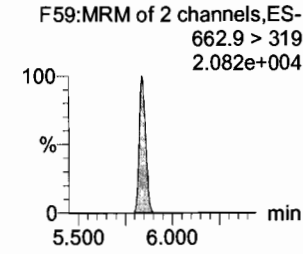
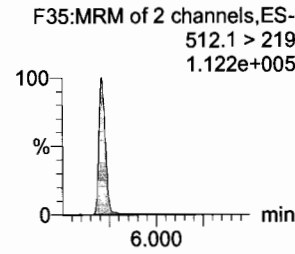
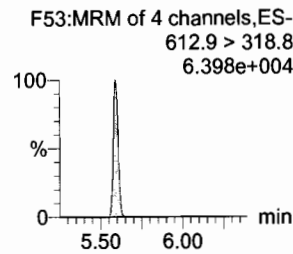
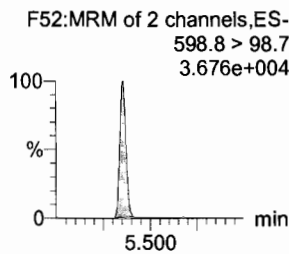
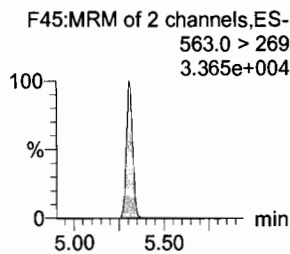
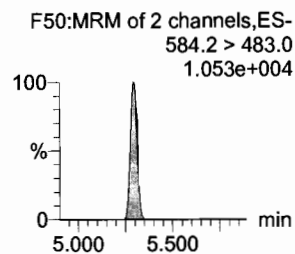
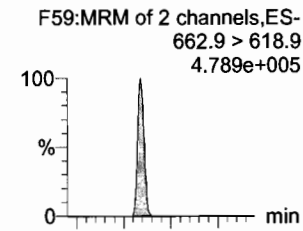
PFDoA



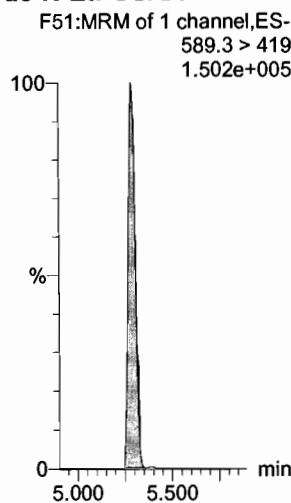
N-MeFOSA



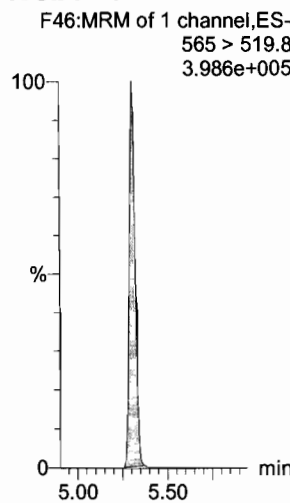
PFTrDA



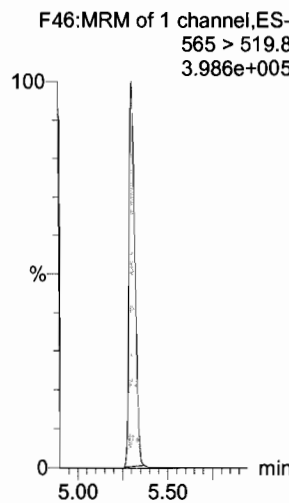
d5-N-EtFOSAA



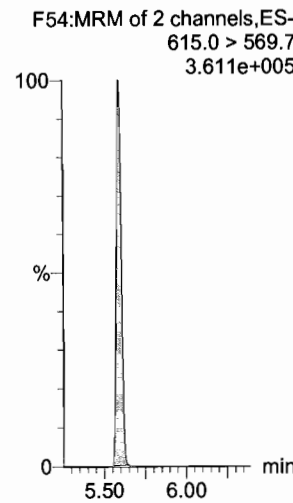
13C2-PFUdA



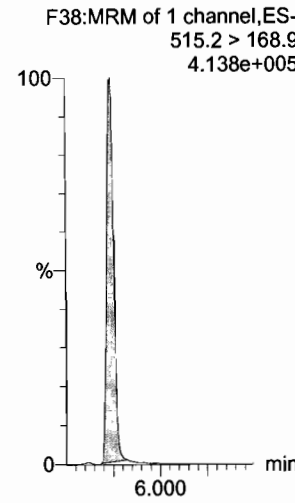
13C2-PFUdA



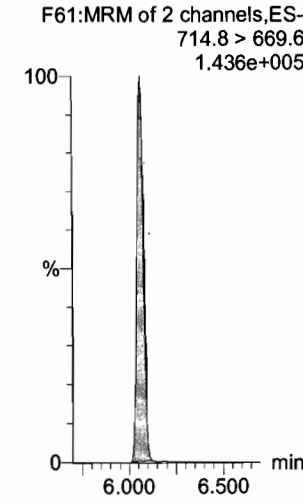
13C2-PFDoA



d3-N-MeFOSA



13C2-PFTeDA

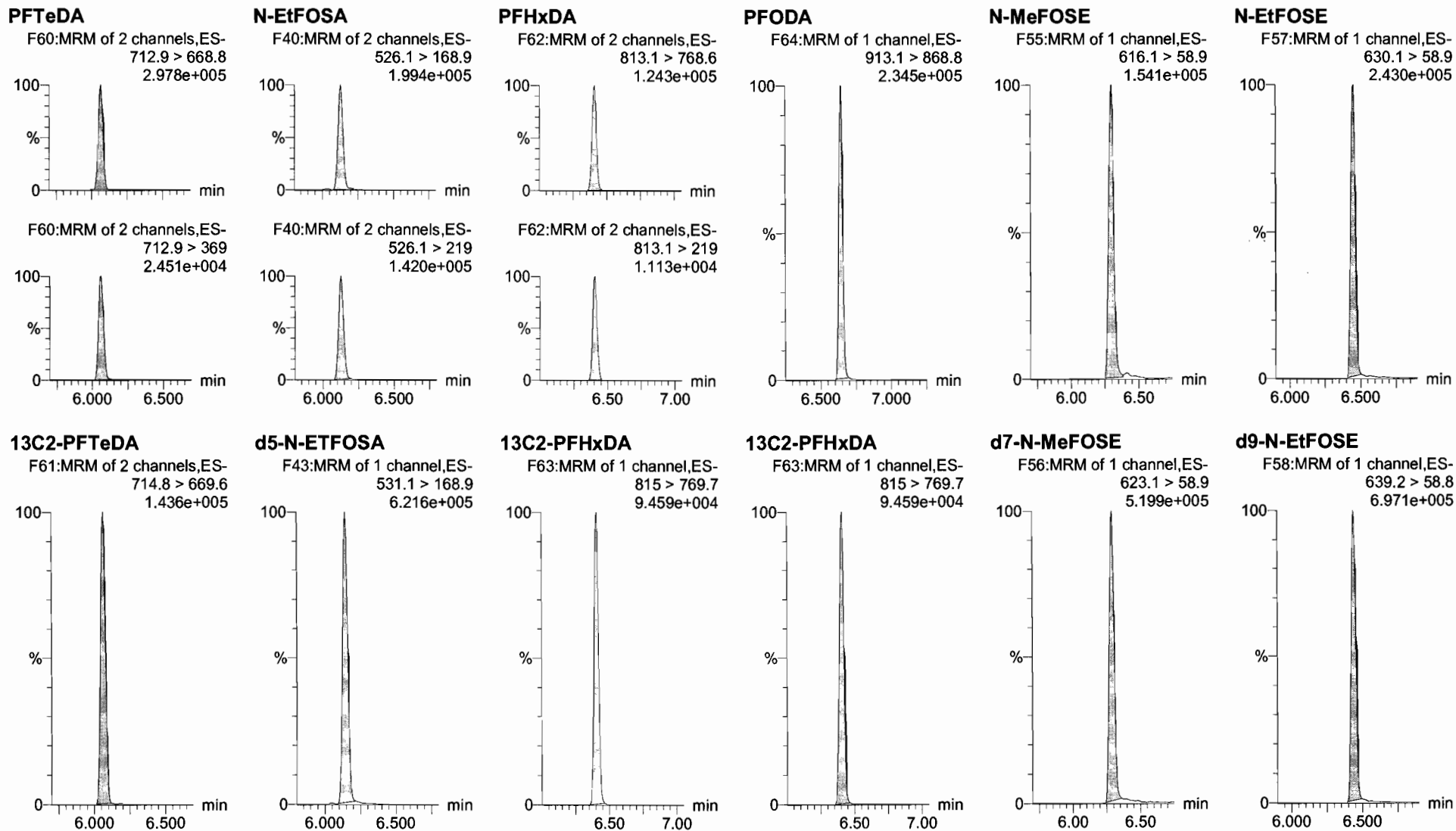


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Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_7, Date: 30-Jan-2018, Time: 12:42:05, ID: ST180130M2-6 PFC CS3 18A1909, Description: PFC CS3 18A1909



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

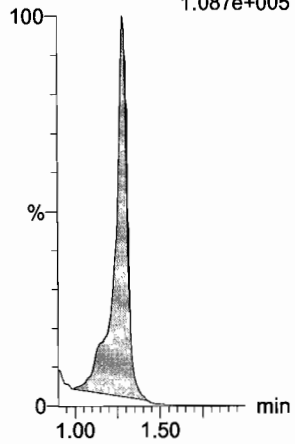
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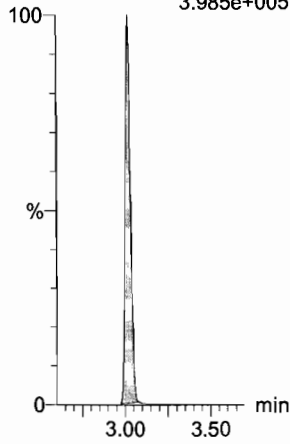
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.087e+005



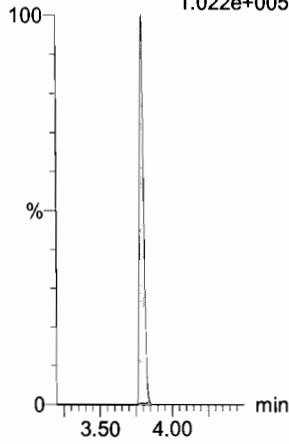
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.985e+005



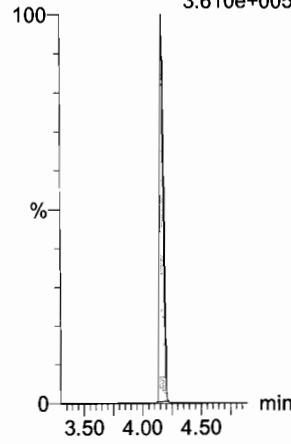
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
1.022e+005



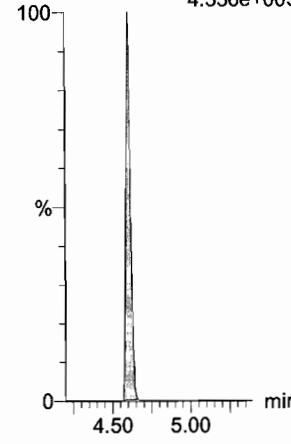
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
3.610e+005



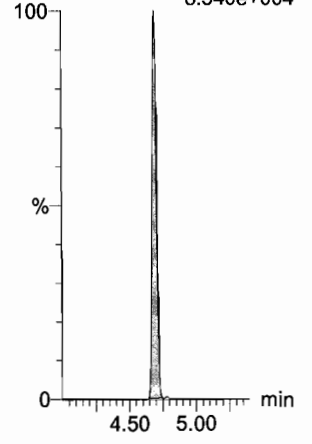
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
4.336e+005



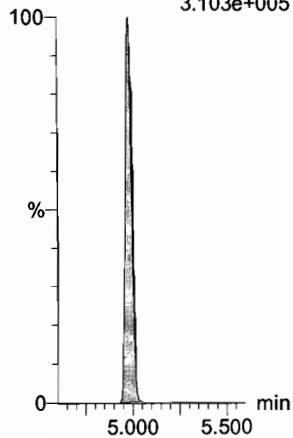
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
8.540e+004



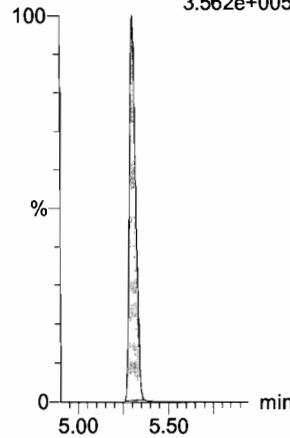
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
3.103e+005



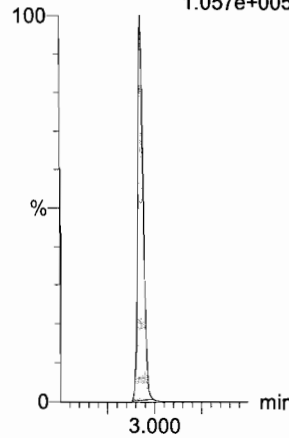
13C7-PFUDa

F48:MRM of 1 channel,ES-
570.1 > 524.8
3.562e+005



13C2-4:2 FTS

F12:MRM of 1 channel,ES-
329.2 > 308.9
1.057e+005



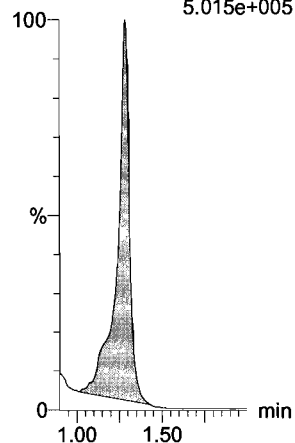
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Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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Name: 180130M2_8, Date: 30-Jan-2018, Time: 12:53:35, ID: ST180130M2-7 PFC CS4 18A1910, Description: PFC CS4 18A1910

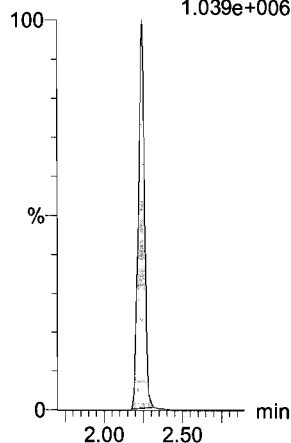
PFBA

F1:MRM of 1 channel,ES-
213.0 > 168.8
5.015e+005



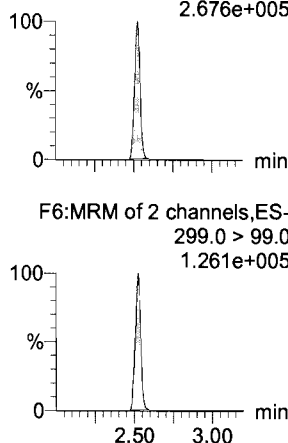
PFPeA

F4:MRM of 1 channel,ES-
263.1 > 218.9
1.039e+006



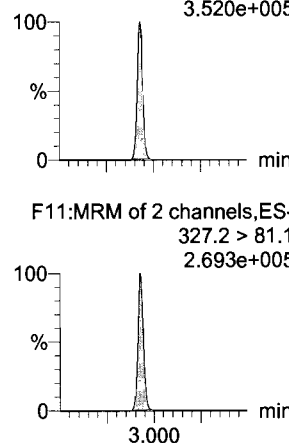
PFBS

F6:MRM of 2 channels,ES-
299.0 > 79.7
2.676e+005



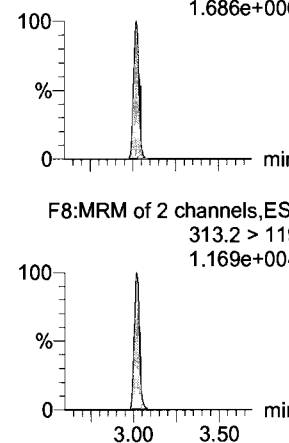
4:2 FTS

F11:MRM of 2 channels,ES-
327.2 > 307.2
3.520e+005



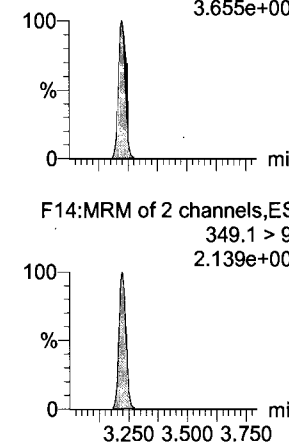
PFHxA

F8:MRM of 2 channels,ES-
313.2 > 268.9
1.686e+006



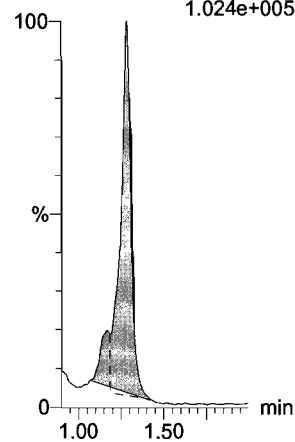
PFPeS

F14:MRM of 2 channels,ES-
349.1 > 80.1
3.655e+005



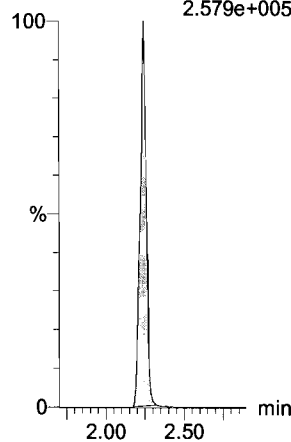
13C3-PFBA

F2:MRM of 1 channel,ES-
216.1 > 171.8
1.024e+005



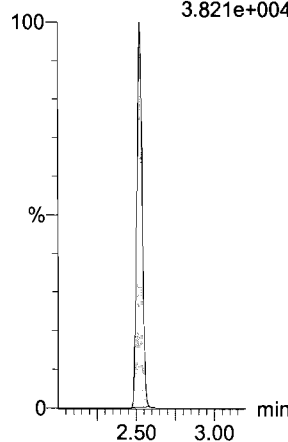
13C3-PFPeA

F5:MRM of 1 channel,ES-
266. > 221.8
2.579e+005



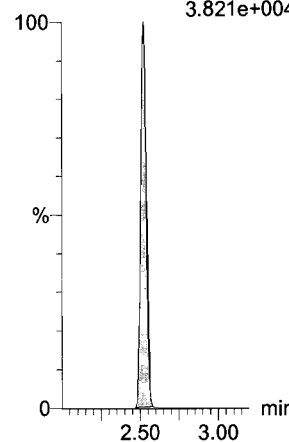
13C3-PFBS

F7:MRM of 1 channel,ES-
302. > 98.8
3.821e+004



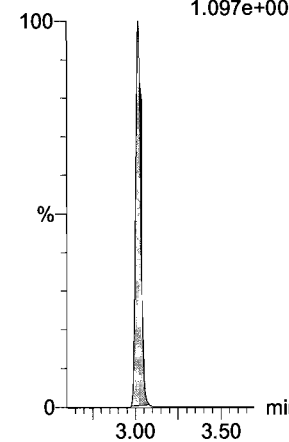
13C3-PFBS

F7:MRM of 1 channel,ES-
302. > 98.8
3.821e+004



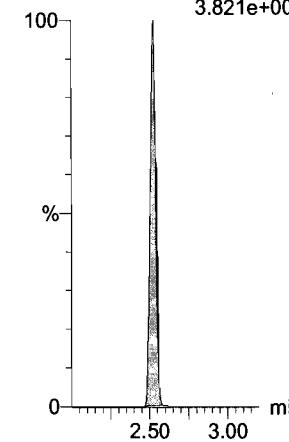
13C2-PFHxA

F9:MRM of 1 channel,ES-
315 > 269.8
1.097e+005



13C3-PFBS

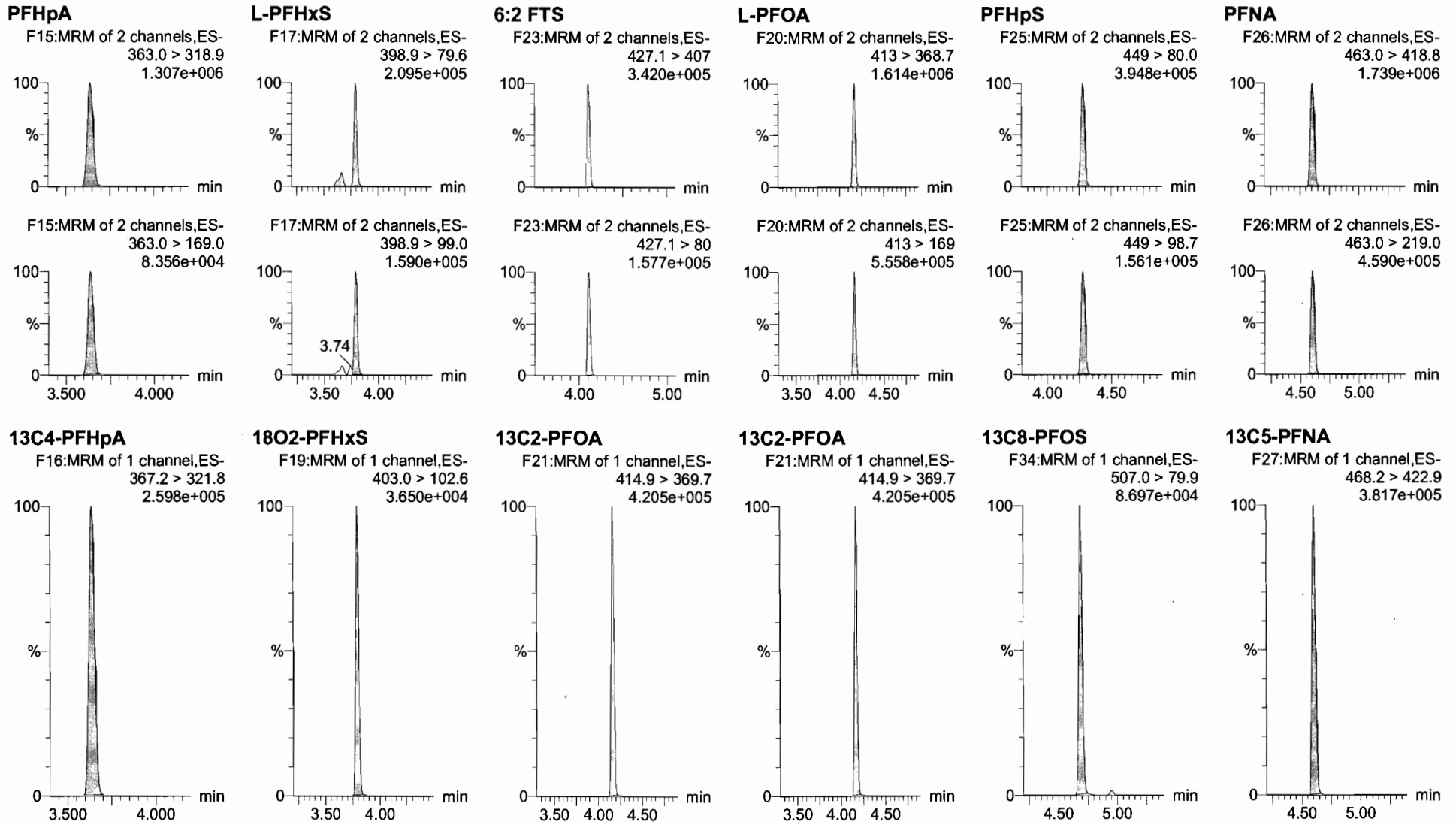
F7:MRM of 1 channel,ES-
302. > 98.8
3.821e+004



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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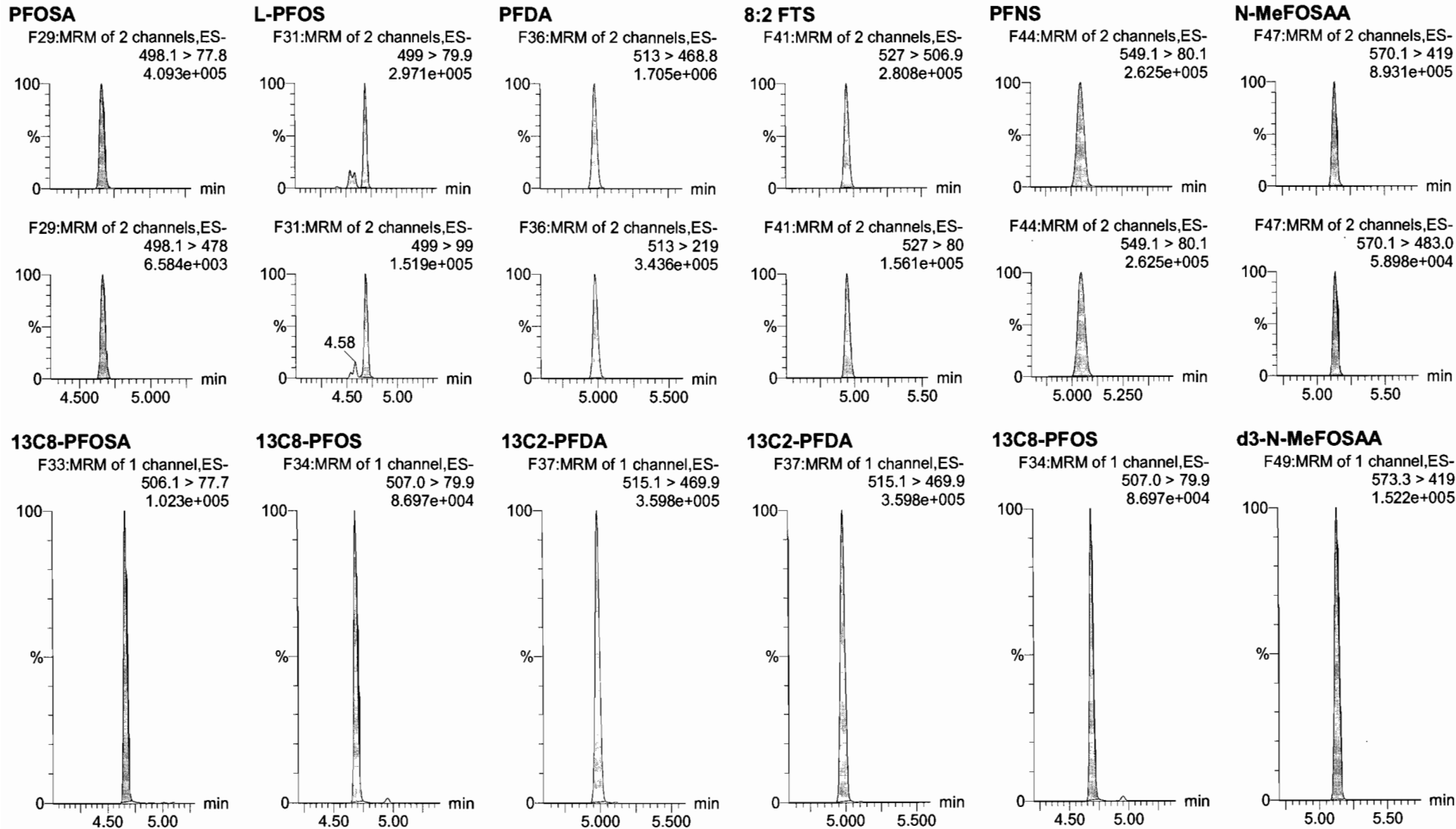
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Name: 180130M2_8, Date: 30-Jan-2018, Time: 12:53:35, ID: ST180130M2-7 PFC CS4 18A1910, Description: PFC CS4 18A1910



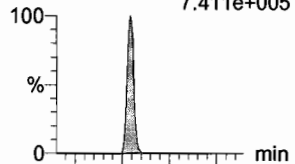
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Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

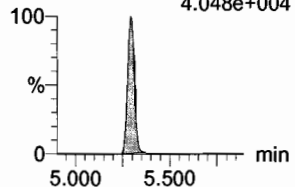
Name: 180130M2_8, Date: 30-Jan-2018, Time: 12:53:35, ID: ST180130M2-7 PFC CS4 18A1910, Description: PFC CS4 18A1910

N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
7.411e+005

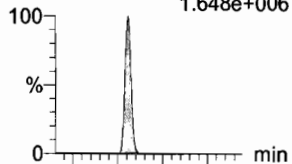


F50:MRM of 2 channels,ES-
584.2 > 483.0
4.048e+004

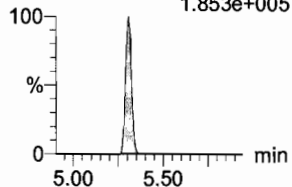


PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
1.648e+006

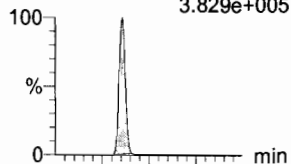


F45:MRM of 2 channels,ES-
563.0 > 269
1.853e+005

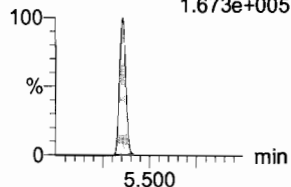


PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
3.829e+005

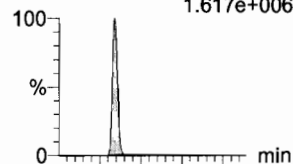


F52:MRM of 2 channels,ES-
598.8 > 98.7
1.673e+005

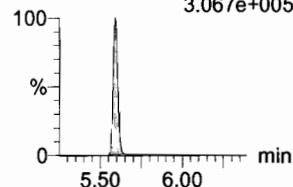


PFDoA

F53:MRM of 4 channels,ES-
612.9 > 569.0
1.617e+006

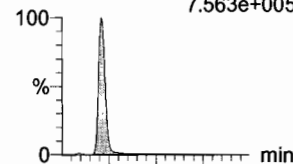


F53:MRM of 4 channels,ES-
612.9 > 318.8
3.067e+005

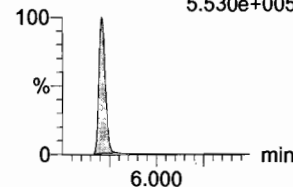


N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
7.563e+005

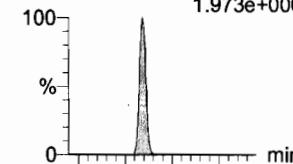


F35:MRM of 2 channels,ES-
512.1 > 219
5.530e+005

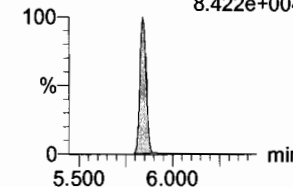


PFTrDA

F59:MRM of 2 channels,ES-
662.9 > 618.9
1.973e+006

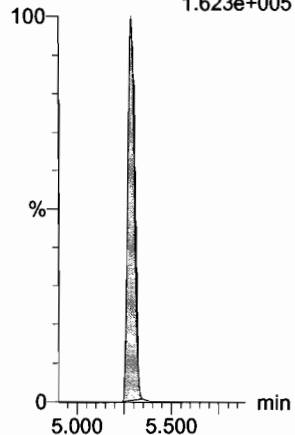


F59:MRM of 2 channels,ES-
662.9 > 319
8.422e+004



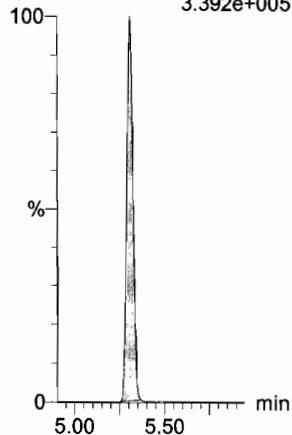
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.623e+005



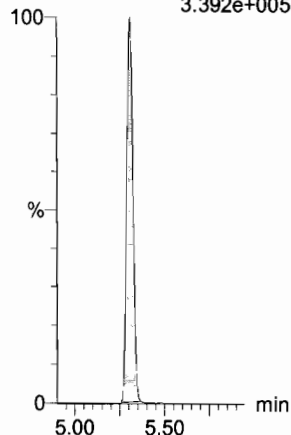
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.392e+005



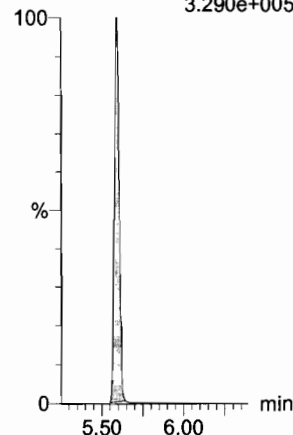
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.392e+005



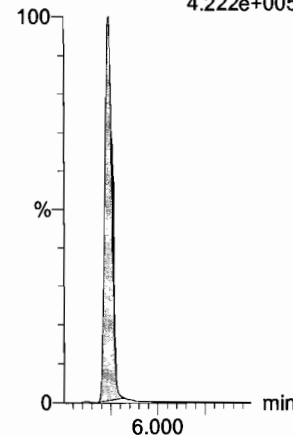
13C2-PFDoA

F54:MRM of 2 channels,ES-
615.0 > 569.7
3.290e+005



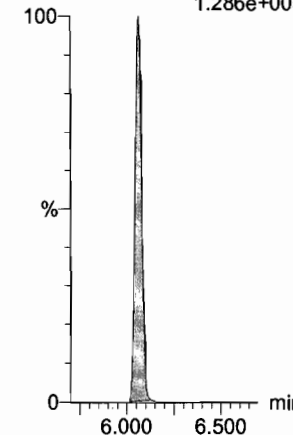
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
4.222e+005



13C2-PFTeDA

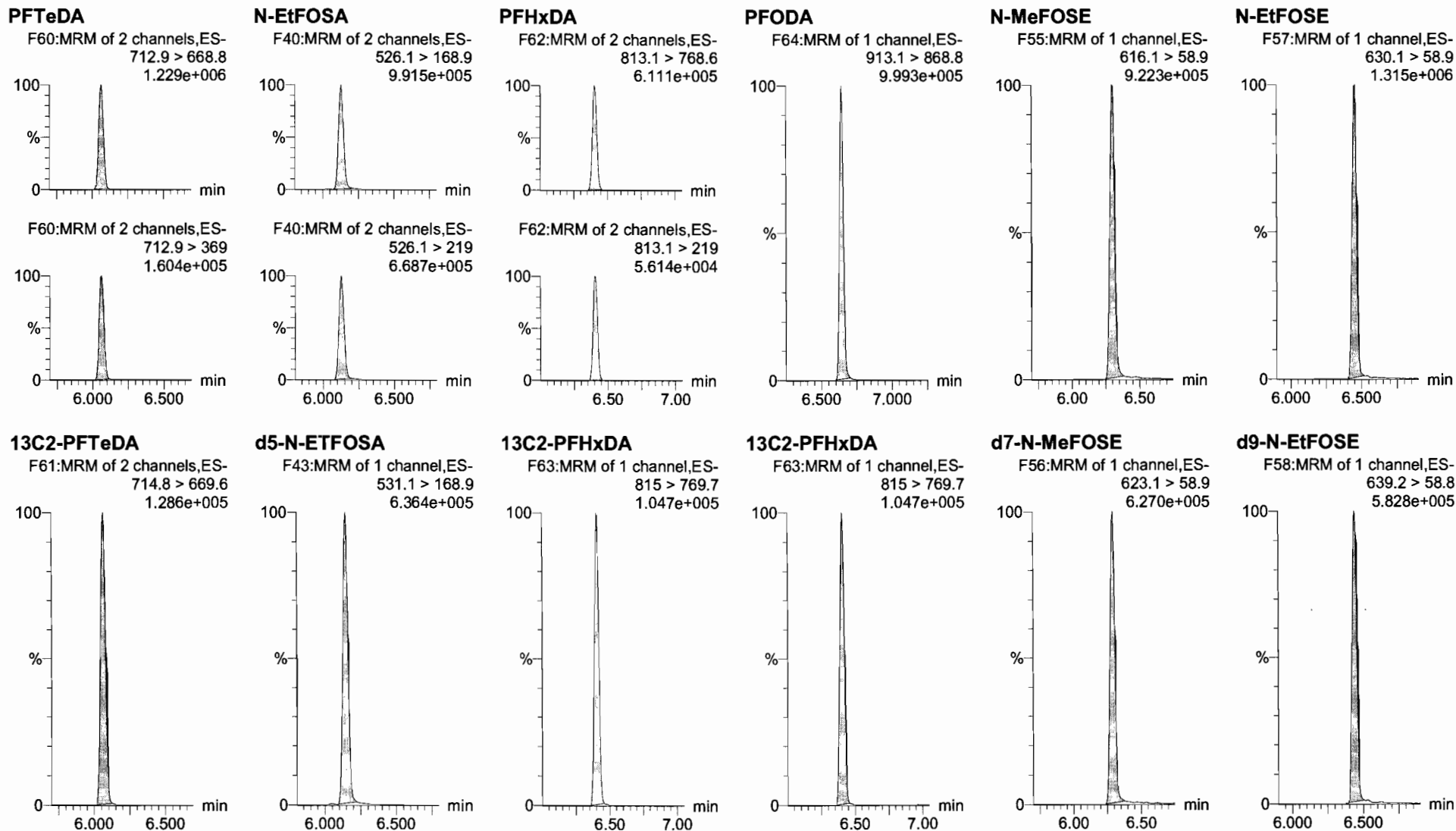
F61:MRM of 2 channels,ES-
714.8 > 669.6
1.286e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_8, Date: 30-Jan-2018, Time: 12:53:35, ID: ST180130M2-7 PFC CS4 18A1910, Description: PFC CS4 18A1910



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

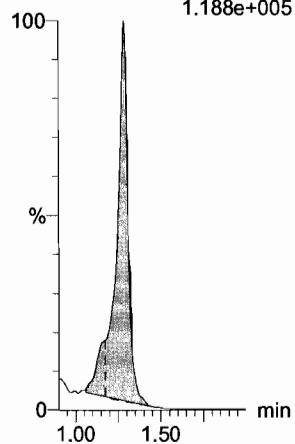
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_8, Date: 30-Jan-2018, Time: 12:53:35, ID: ST180130M2-7 PFC CS4 18A1910, Description: PFC CS4 18A1910

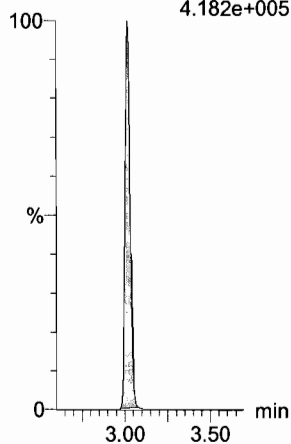
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.188e+005



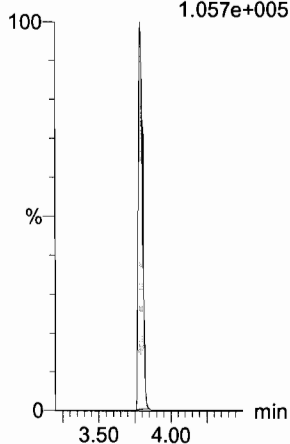
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
4.182e+005



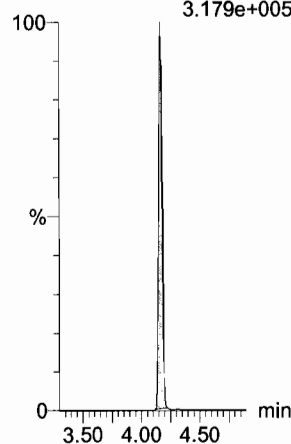
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
1.057e+005



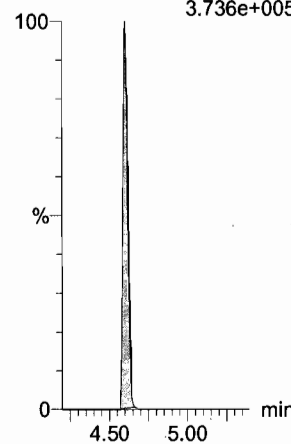
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
3.179e+005



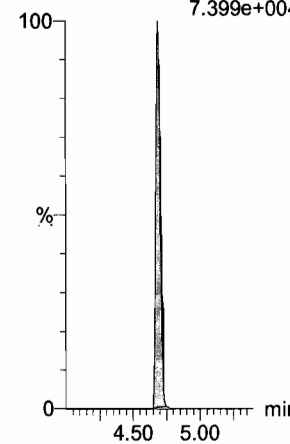
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
3.736e+005



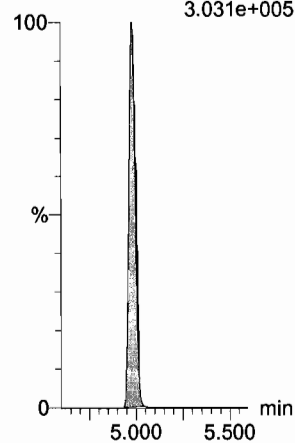
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
7.399e+004



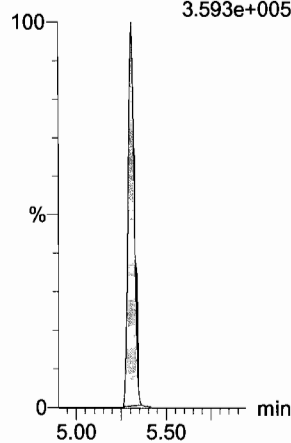
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
3.031e+005



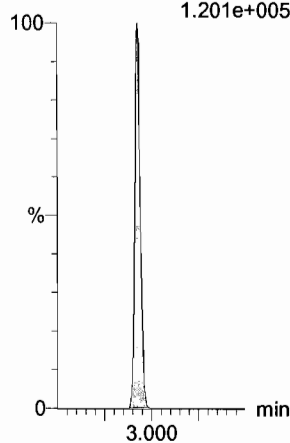
13C7-PFuDA

F48:MRM of 1 channel,ES-
570.1 > 524.8
3.593e+005



13C2-4:2 FTS

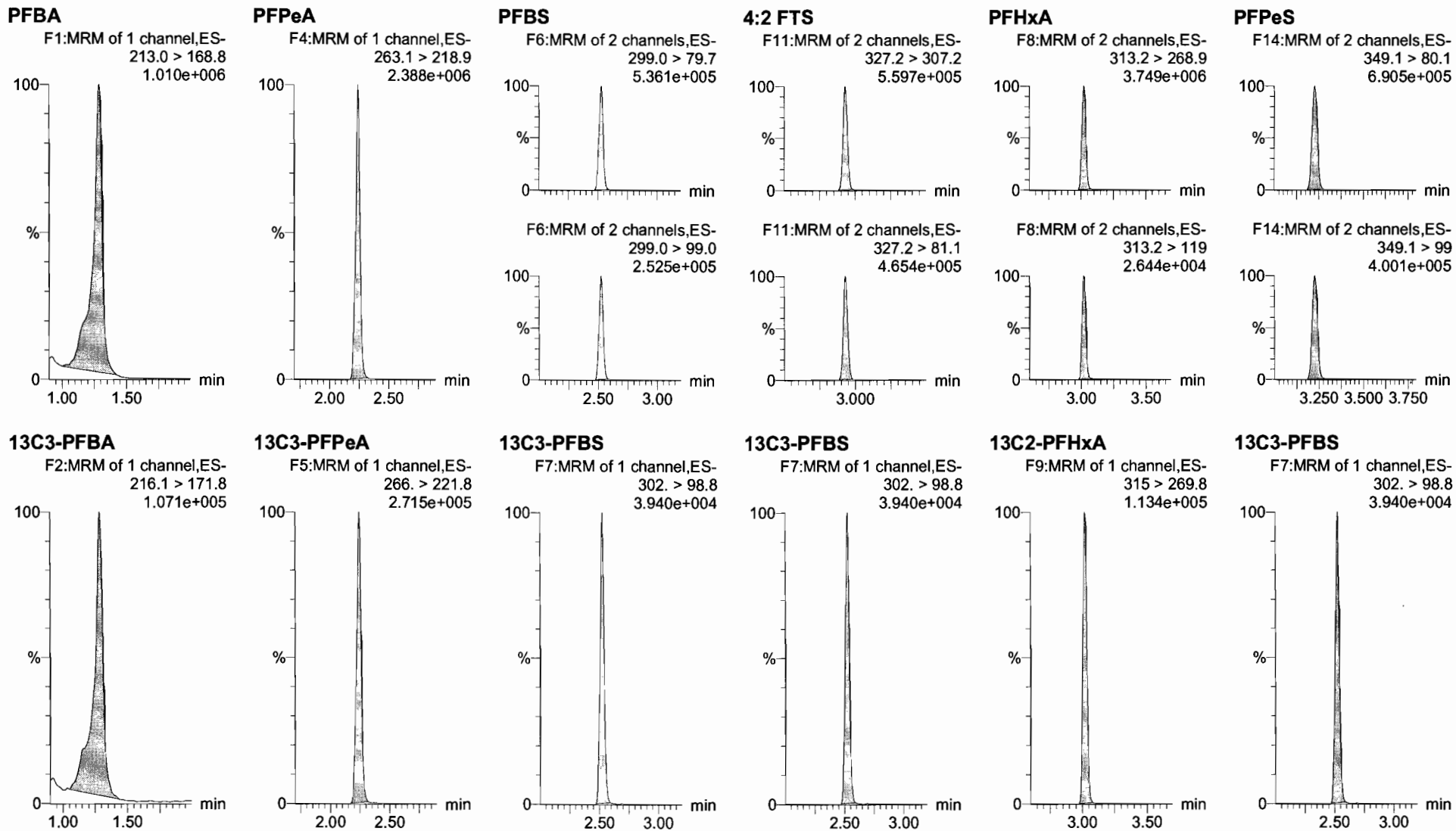
F12:MRM of 1 channel,ES-
329.2 > 308.9
1.201e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_9, Date: 30-Jan-2018, Time: 13:05:04, ID: ST180130M2-8 PFC CS5 18A1911, Description: PFC CS5 18A1911



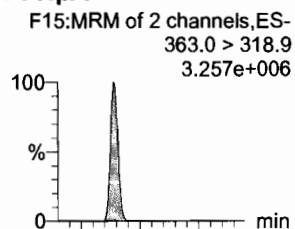
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Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

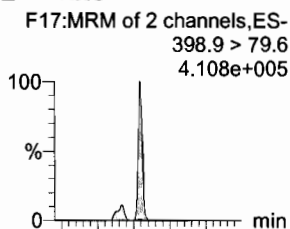
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_9, Date: 30-Jan-2018, Time: 13:05:04, ID: ST180130M2-8 PFC CS5 18A1911, Description: PFC CS5 18A1911

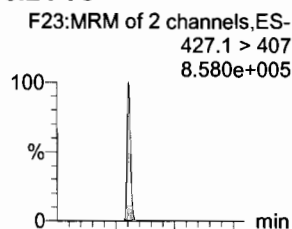
PFHpA



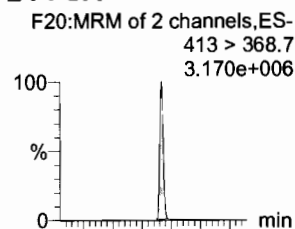
L-PFHxS



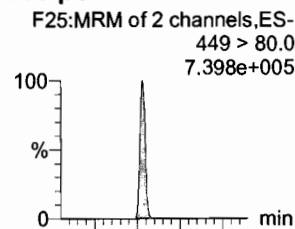
6:2 FTS



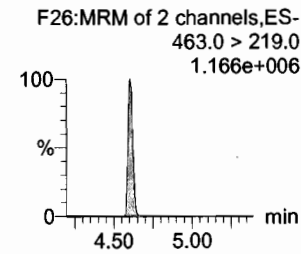
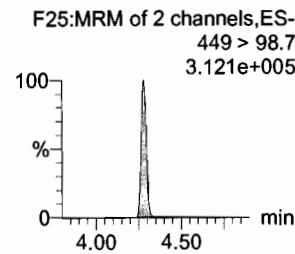
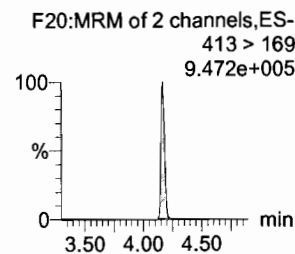
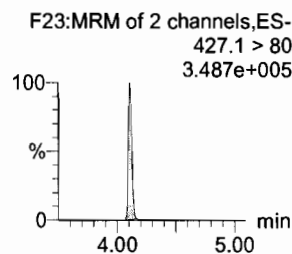
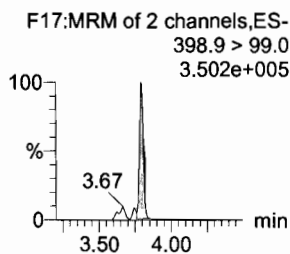
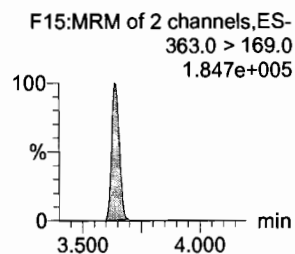
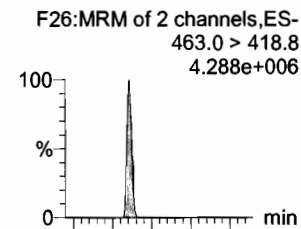
L-PFOA



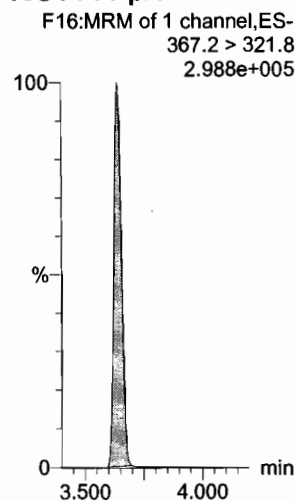
PFHpS



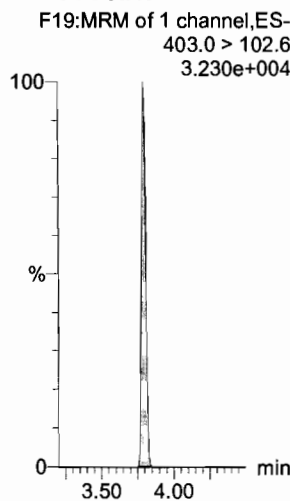
PFNA



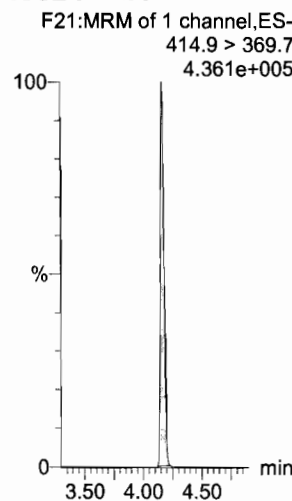
13C4-PFHpA



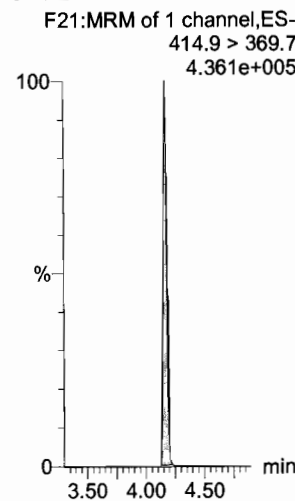
18O2-PFHxS



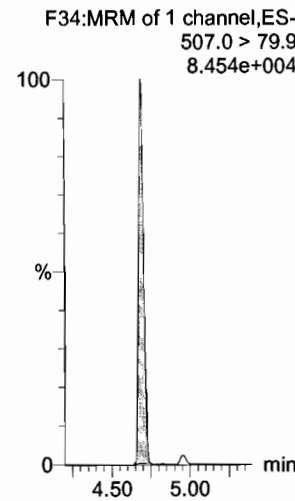
13C2-PFOA



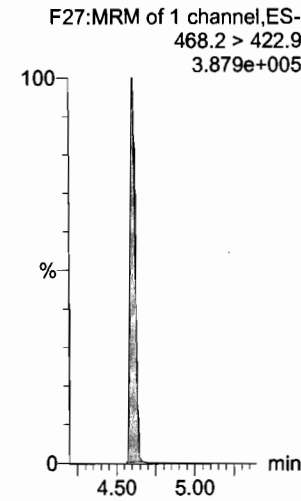
13C2-PFOA



13C8-PFOS



13C5-PFNA

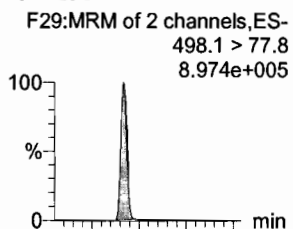


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

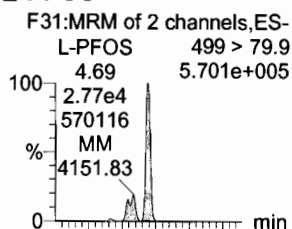
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_9, Date: 30-Jan-2018, Time: 13:05:04, ID: ST180130M2-8 PFC CS5 18A1911, Description: PFC CS5 18A1911

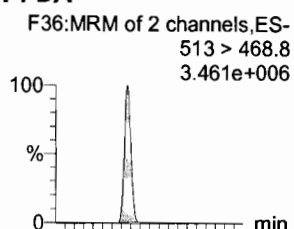
PFOSA



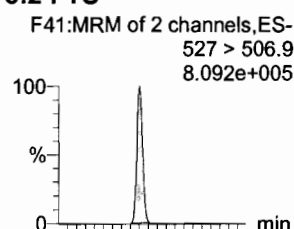
L-PFOS



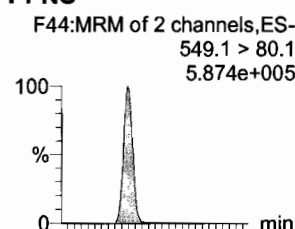
PFDA



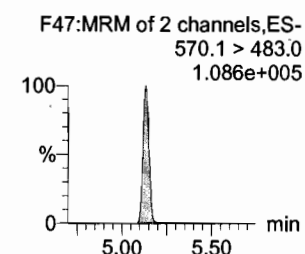
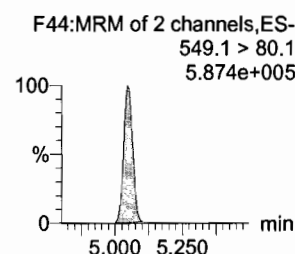
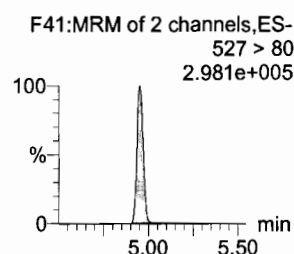
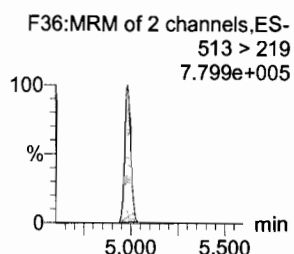
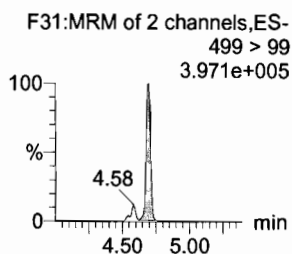
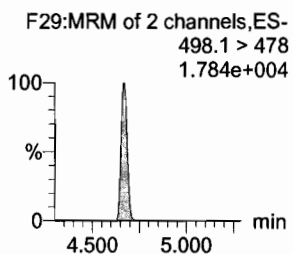
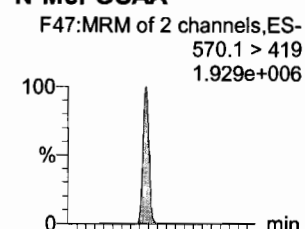
8:2 FTS



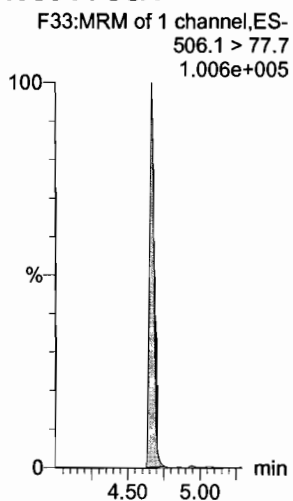
PFNS



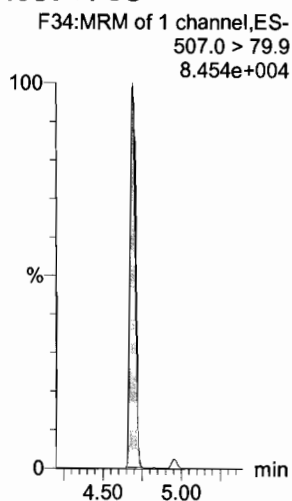
N-MeFOSAA



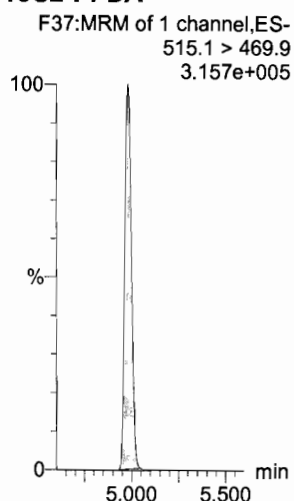
13C8-PFOSA



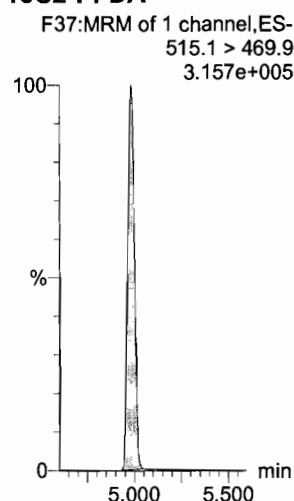
13C8-PFOS



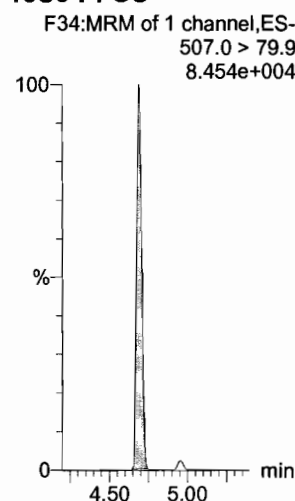
13C2-PFDA



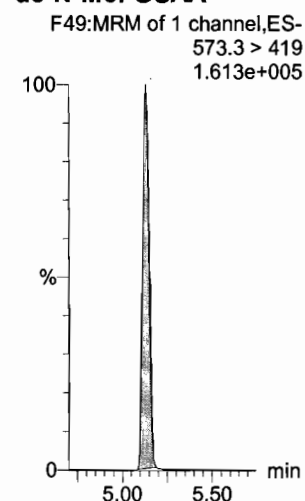
13C2-PFDA



13C8-PFOS



d3-N-MeFOSAA



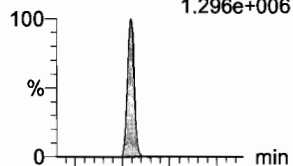
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

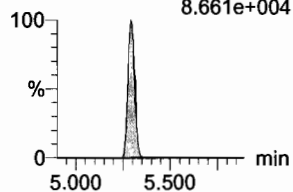
Name: 180130M2_9, Date: 30-Jan-2018, Time: 13:05:04, ID: ST180130M2-8 PFC CS5 18A1911, Description: PFC CS5 18A1911

N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
1.296e+006

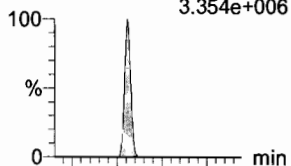


F50:MRM of 2 channels,ES-
584.2 > 483.0
8.661e+004

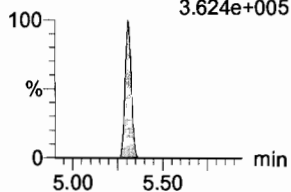


PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
3.354e+006

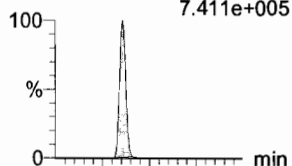


F45:MRM of 2 channels,ES-
563.0 > 269
3.624e+005

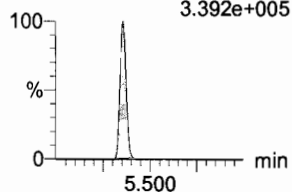


PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
7.411e+005

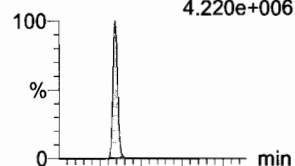


F52:MRM of 2 channels,ES-
598.8 > 98.7
3.392e+005

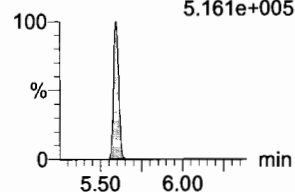


PFDoA

F53:MRM of 4 channels,ES-
612.9 > 569.0
4.220e+006

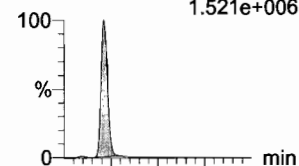


F53:MRM of 4 channels,ES-
612.9 > 318.8
5.161e+005

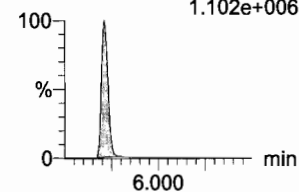


N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
1.521e+006

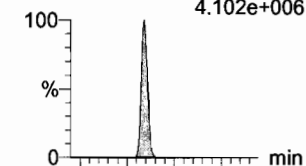


F35:MRM of 2 channels,ES-
512.1 > 219
1.102e+006

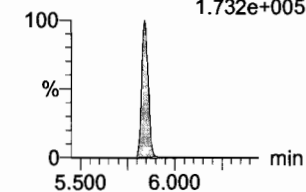


PFTrDA

F59:MRM of 2 channels,ES-
662.9 > 618.9
4.102e+006

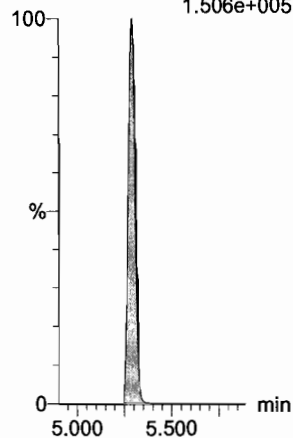


F59:MRM of 2 channels,ES-
662.9 > 319
1.732e+005



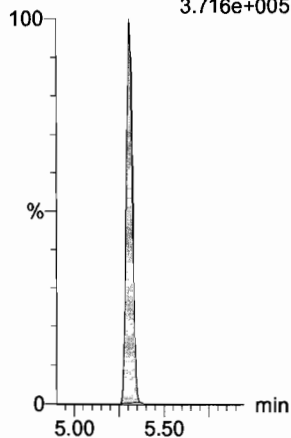
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.506e+005



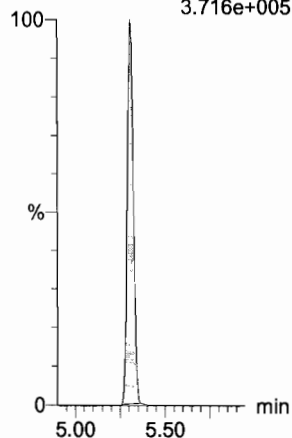
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.716e+005



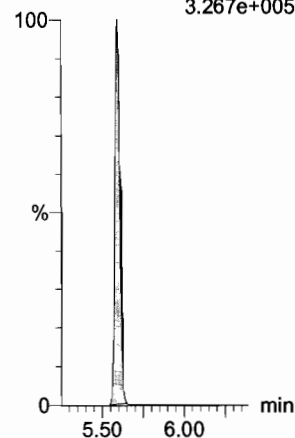
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.716e+005



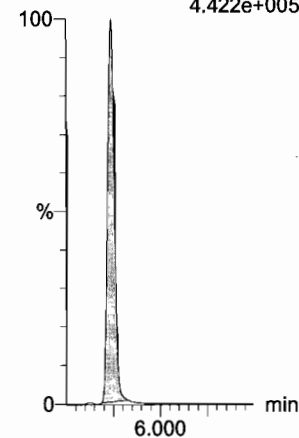
13C2-PFDoA

F54:MRM of 2 channels,ES-
615.0 > 569.7
3.267e+005



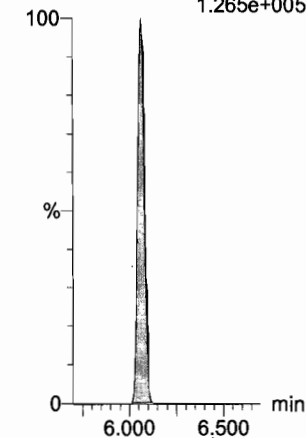
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
4.422e+005



13C2-PFTeDA

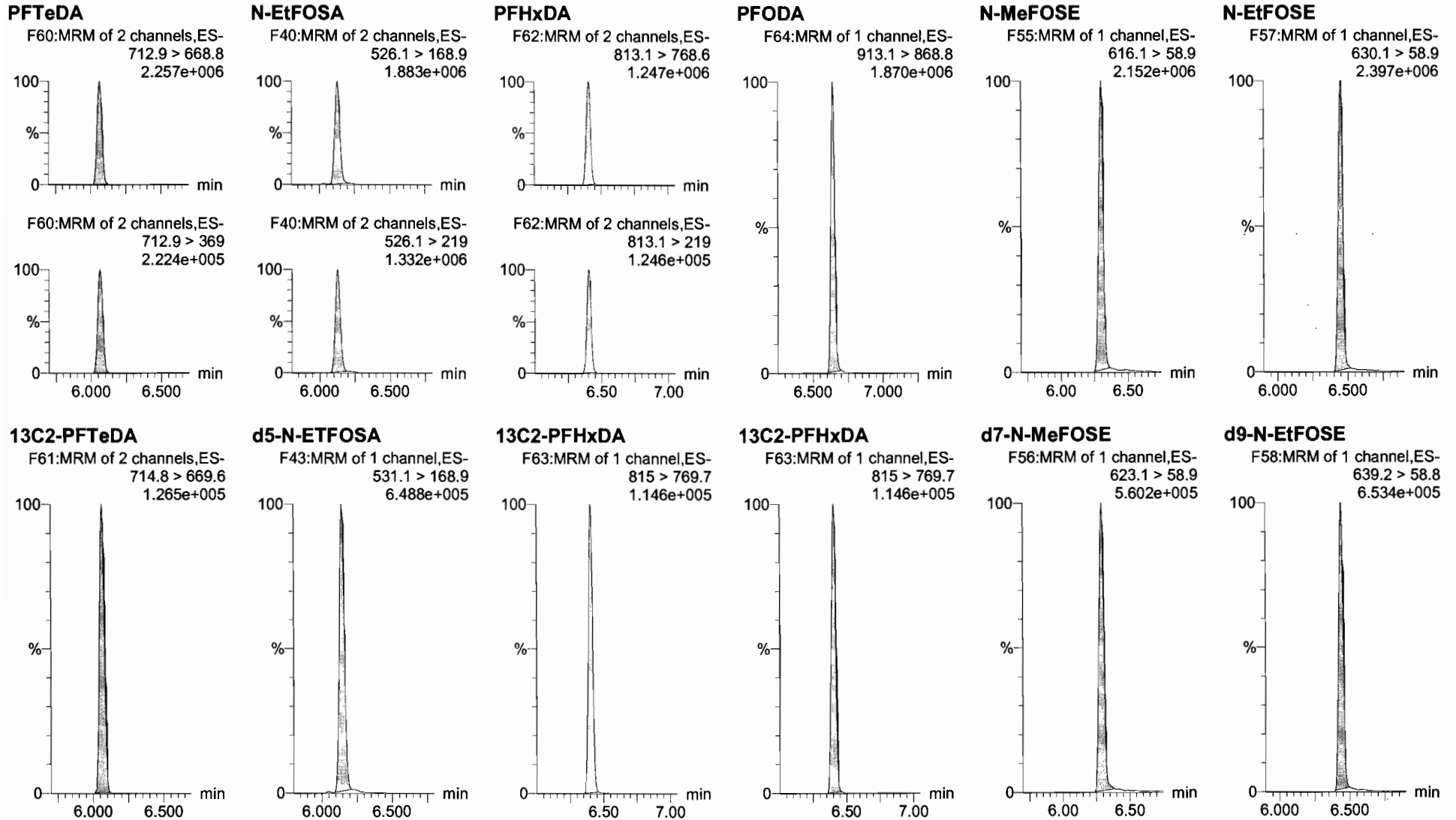
F61:MRM of 2 channels,ES-
714.8 > 669.6
1.265e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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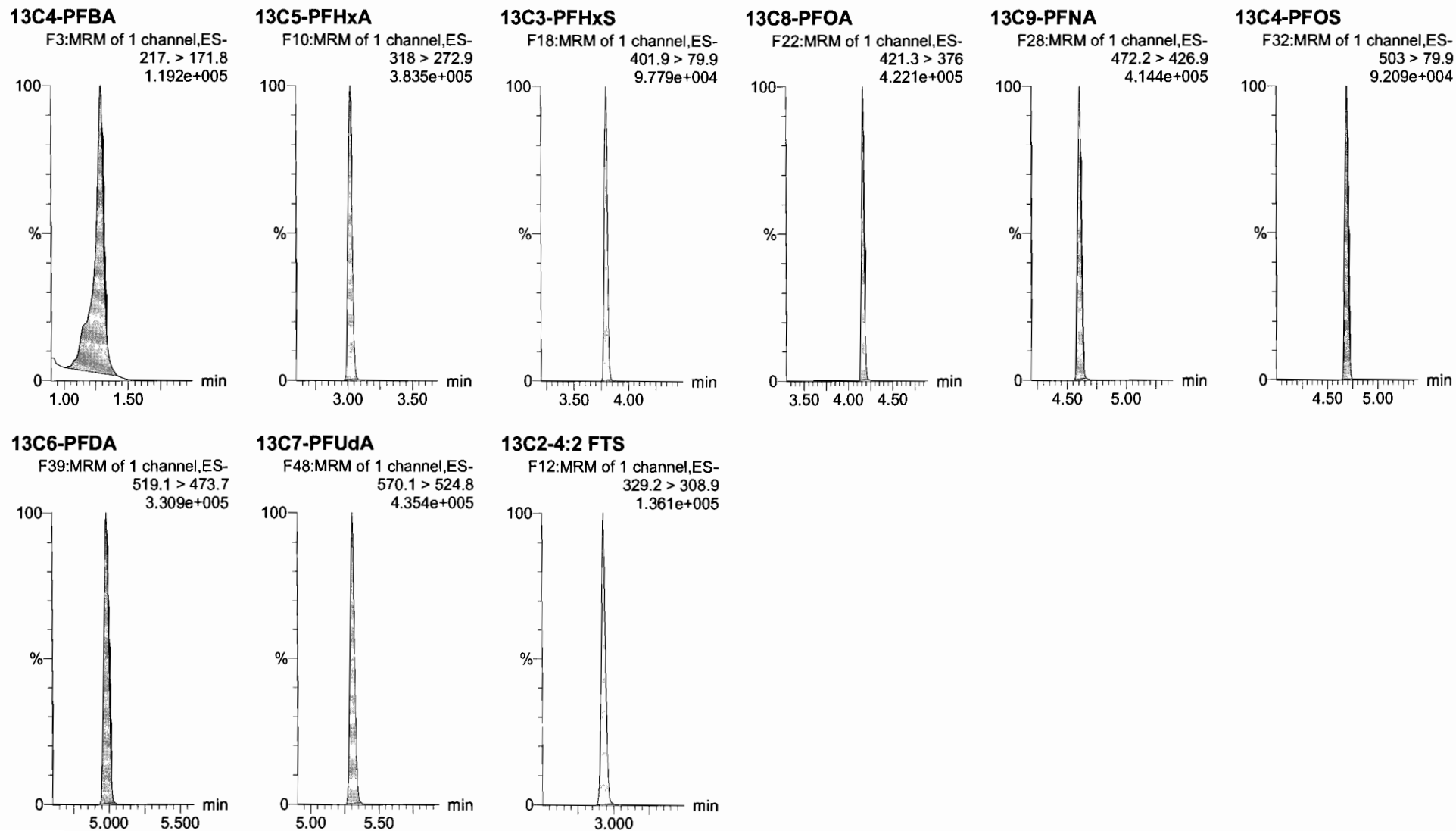
Name: 180130M2_9, Date: 30-Jan-2018, Time: 13:05:04, ID: ST180130M2-8 PFC CS5 18A1911, Description: PFC CS5 18A1911



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_9, Date: 30-Jan-2018, Time: 13:05:04, ID: ST180130M2-8 PFC CS5 18A1911, Description: PFC CS5 18A1911

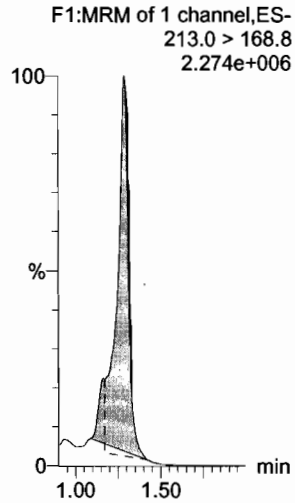


Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

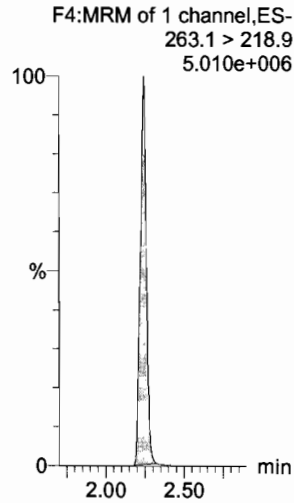
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_10, Date: 30-Jan-2018, Time: 13:16:34, ID: ST180130M2-9 PFC CS6 18A2403, Description: PFC CS6 18A2403

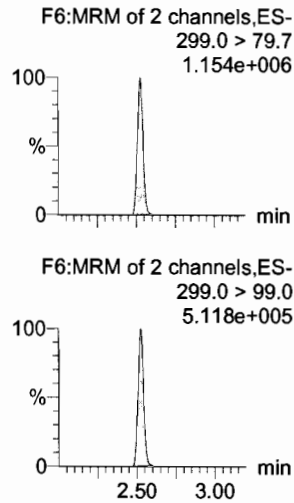
PFBA



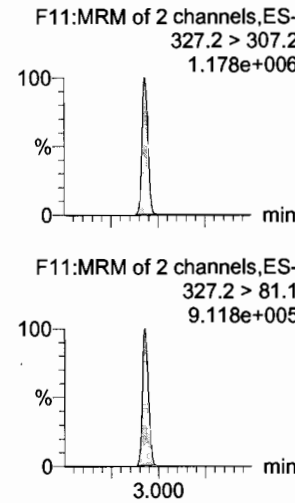
PFPeA



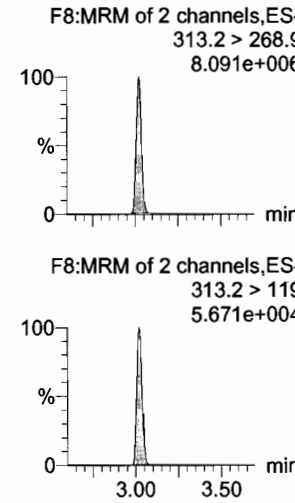
PFBS



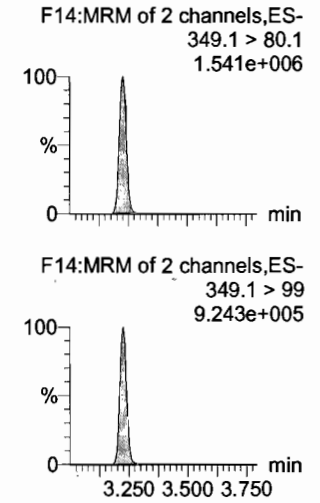
4:2 FTS



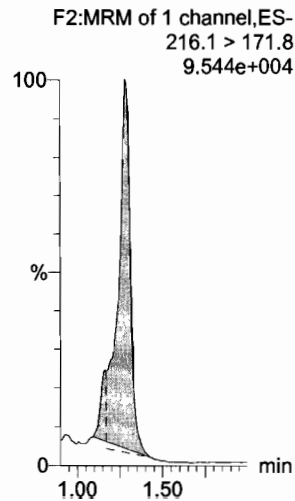
PFHxA



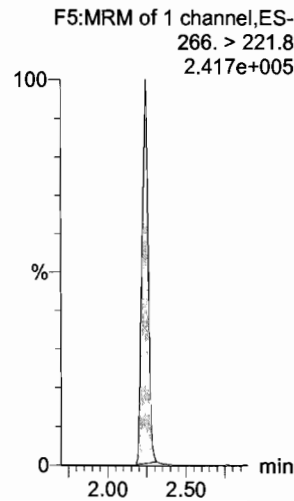
PFPeS



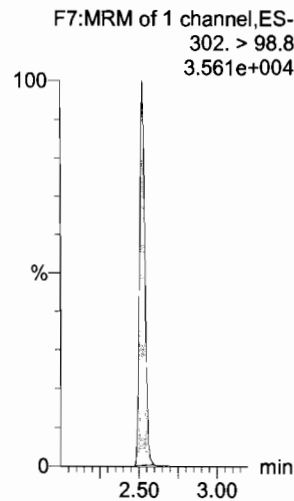
13C3-PFBA



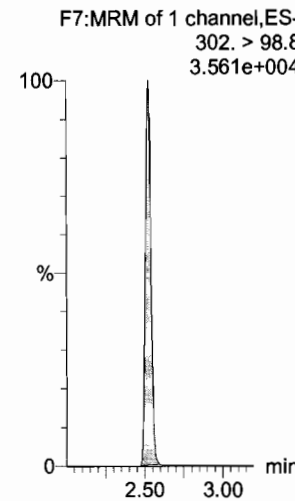
13C3-PFPeA



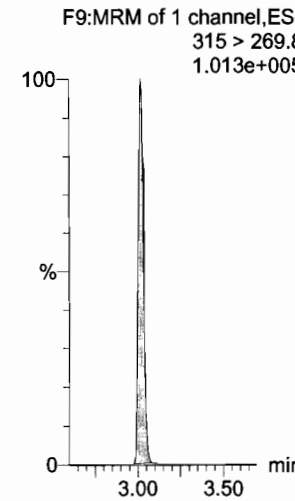
13C3-PFBS



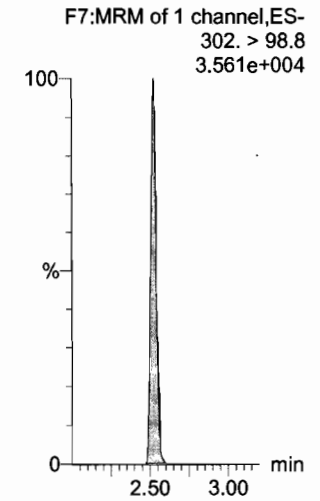
13C3-PFBS



13C2-PFHxA



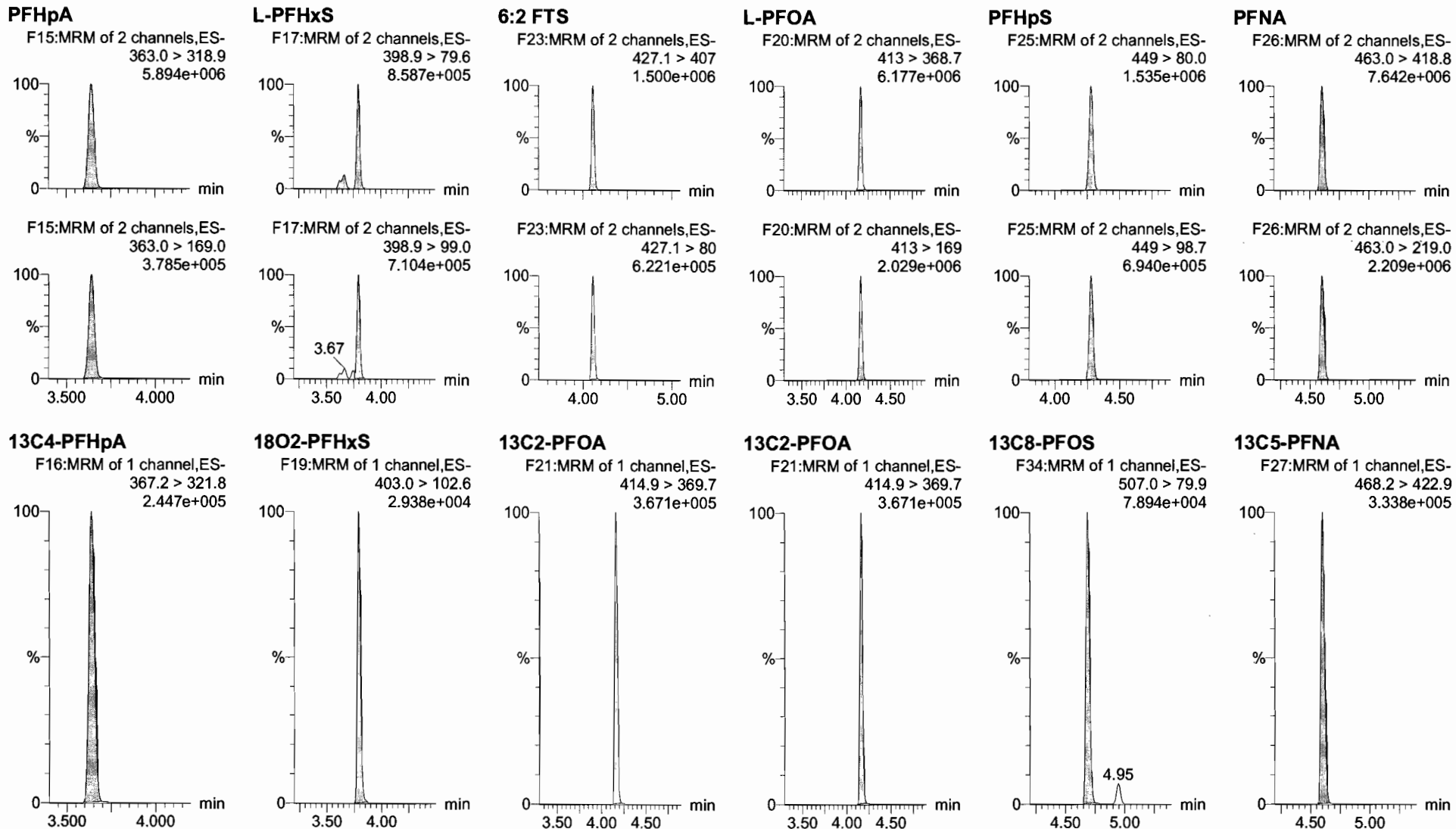
13C3-PFBS



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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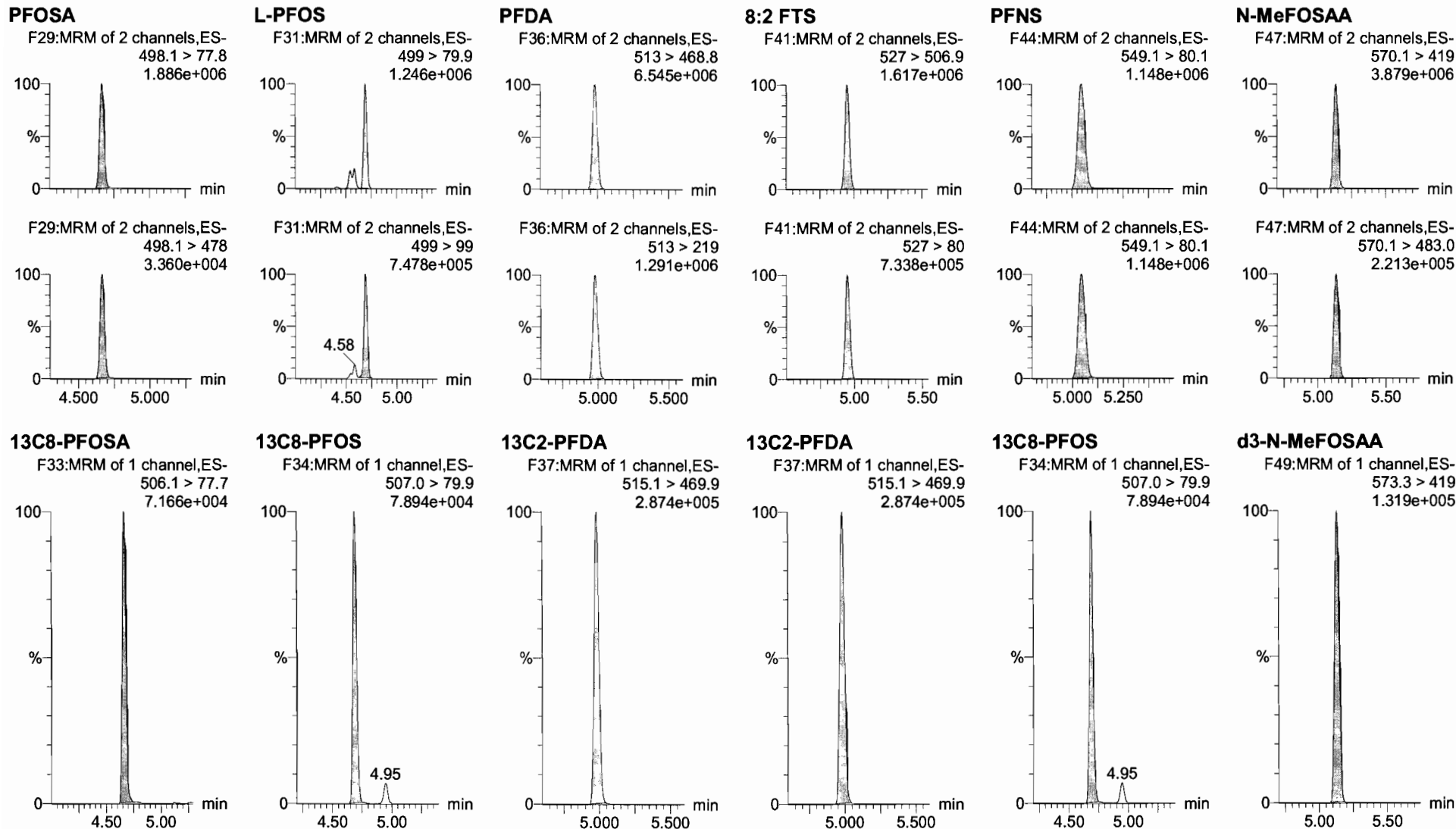
Name: 180130M2_10, Date: 30-Jan-2018, Time: 13:16:34, ID: ST180130M2-9 PFC CS6 18A2403, Description: PFC CS6 18A2403



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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Name: 180130M2_10, Date: 30-Jan-2018, Time: 13:16:34, ID: ST180130M2-9 PFC CS6 18A2403, Description: PFC CS6 18A2403



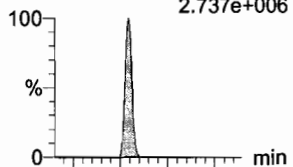
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_10, Date: 30-Jan-2018, Time: 13:16:34, ID: ST180130M2-9 PFC CS6 18A2403, Description: PFC CS6 18A2403

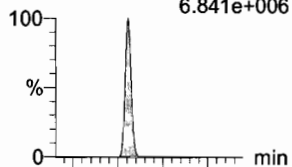
N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
2.737e+006



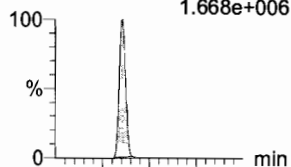
PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
6.841e+006



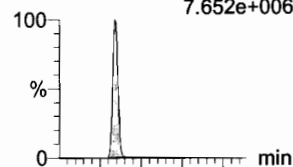
PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
1.668e+006



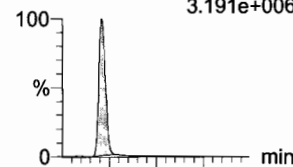
PFDoA

F53:MRM of 4 channels,ES-
612.9 > 569.0
7.652e+006



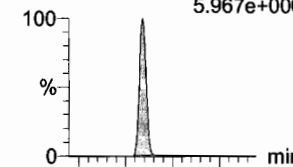
N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
3.191e+006

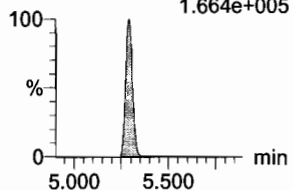


PFTrDA

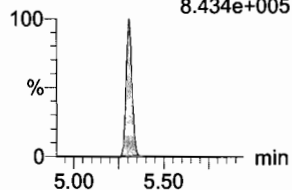
F59:MRM of 2 channels,ES-
662.9 > 618.9
5.967e+006



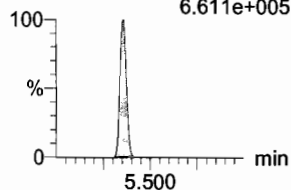
F50:MRM of 2 channels,ES-
584.2 > 483.0
1.664e+005



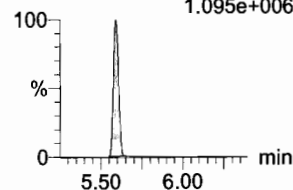
F45:MRM of 2 channels,ES-
563.0 > 269
8.434e+005



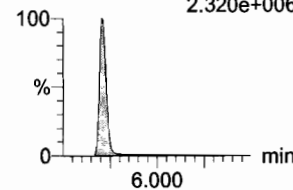
F52:MRM of 2 channels,ES-
598.8 > 98.7
6.611e+005



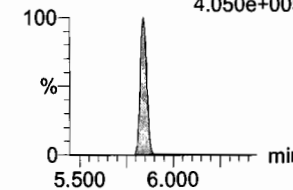
F53:MRM of 4 channels,ES-
612.9 > 318.8
1.095e+006



F35:MRM of 2 channels,ES-
512.1 > 219
2.320e+006

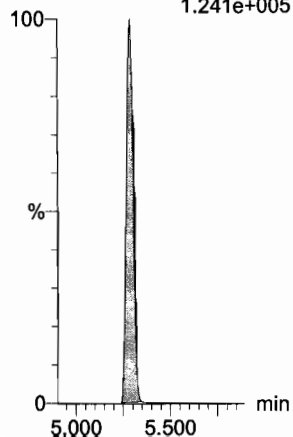


F59:MRM of 2 channels,ES-
662.9 > 319
4.050e+005



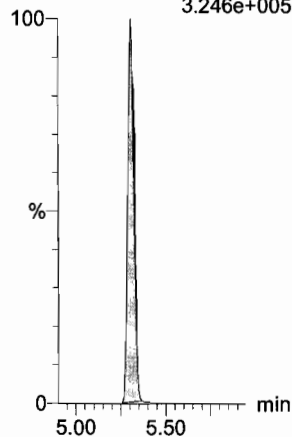
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.241e+005



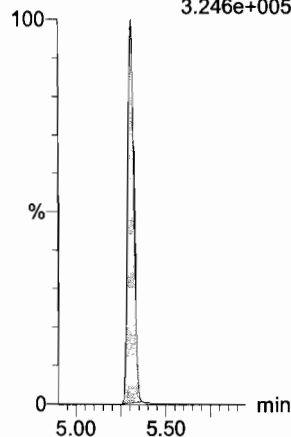
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.246e+005



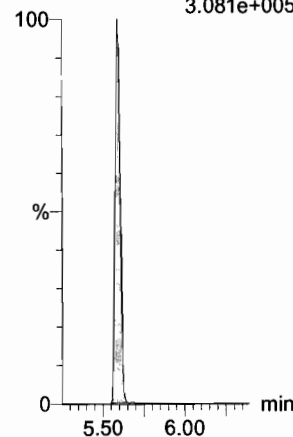
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.246e+005



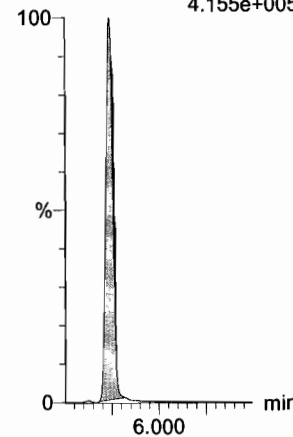
13C2-PFDoA

F54:MRM of 2 channels,ES-
615.0 > 569.7
3.081e+005



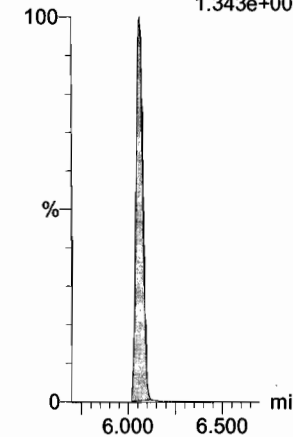
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
4.155e+005



13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.343e+005



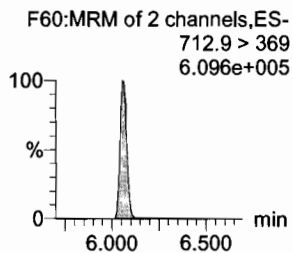
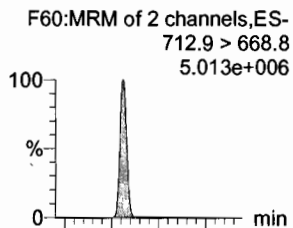
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Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

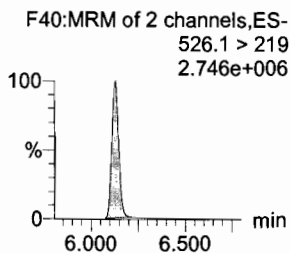
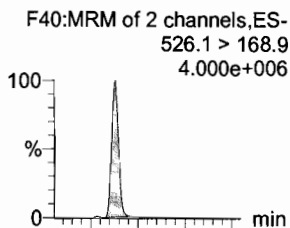
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_10, Date: 30-Jan-2018, Time: 13:16:34, ID: ST180130M2-9 PFC CS6 18A2403, Description: PFC CS6 18A2403

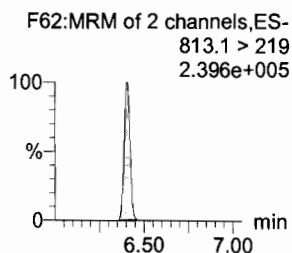
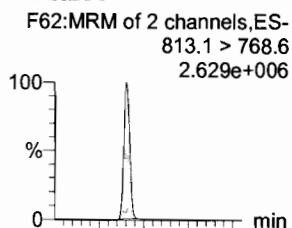
PFTeDA



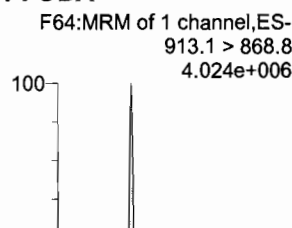
N-EtFOSA



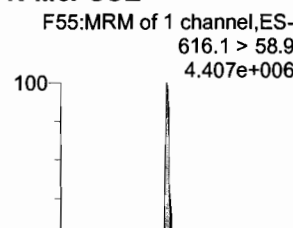
PFHxDA



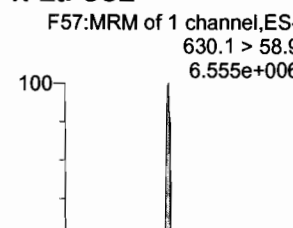
PFODA



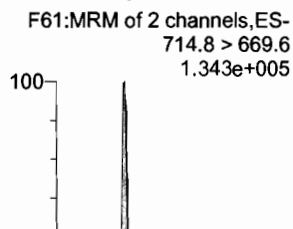
N-MeFOSE



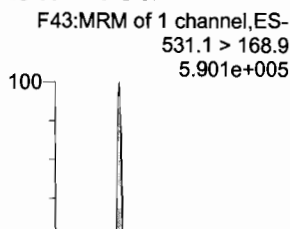
N-EtFOSE



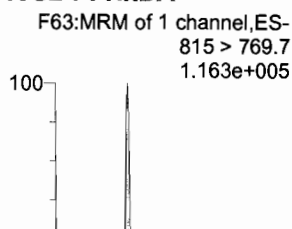
13C2-PFTeDA



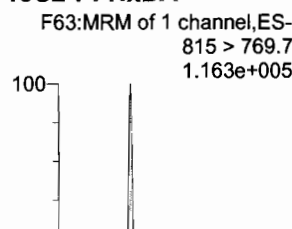
d5-N-ETFOSA



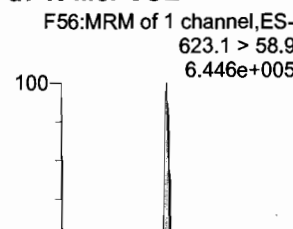
13C2-PFHxDA



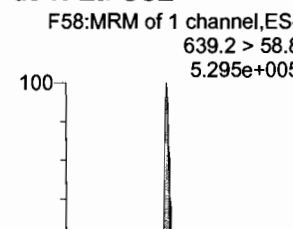
13C2-PFHxDA



d7-N-MeFOSE



d9-N-EtFOSE



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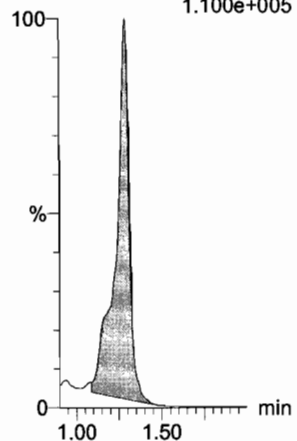
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Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_10, Date: 30-Jan-2018, Time: 13:16:34, ID: ST180130M2-9 PFC CS6 18A2403, Description: PFC CS6 18A2403

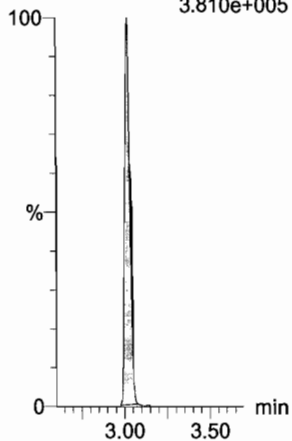
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.100e+005



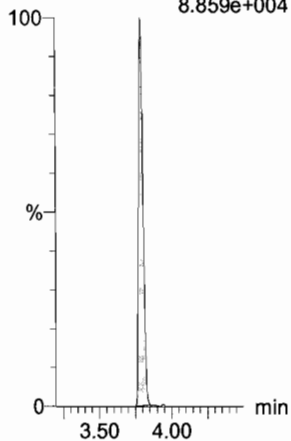
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.810e+005



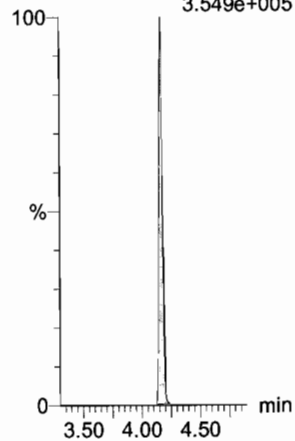
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
8.859e+004



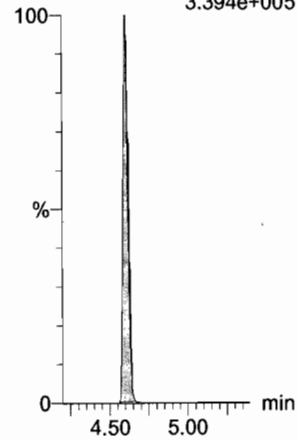
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
3.549e+005



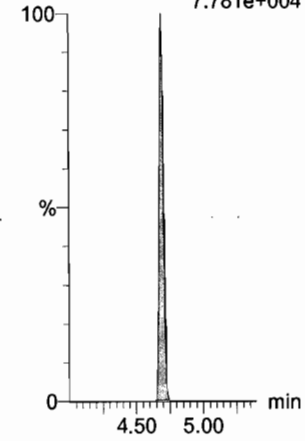
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
3.394e+005



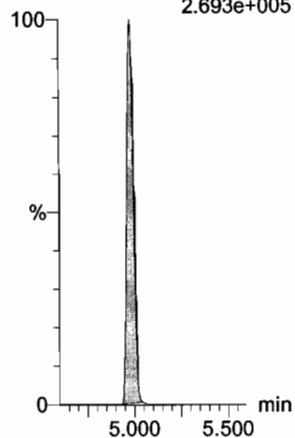
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
7.781e+004



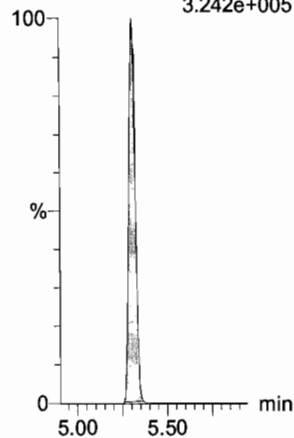
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
2.693e+005



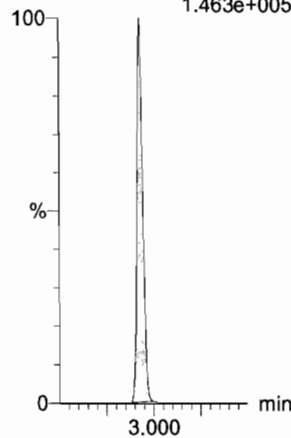
13C7-PFUdA

F48:MRM of 1 channel,ES-
570.1 > 524.8
3.242e+005



13C2-4:2 FTS

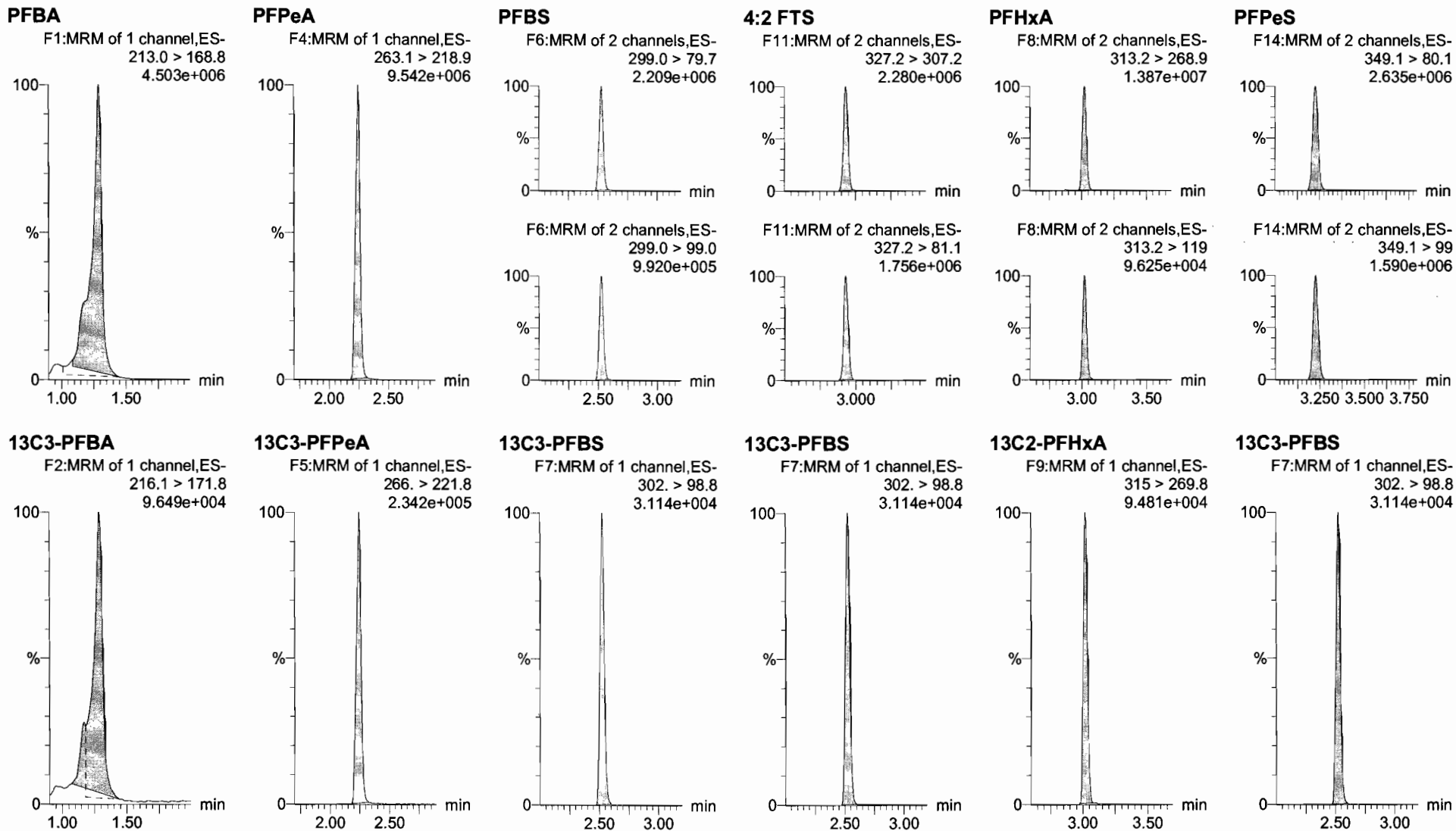
F12:MRM of 1 channel,ES-
329.2 > 308.9
1.463e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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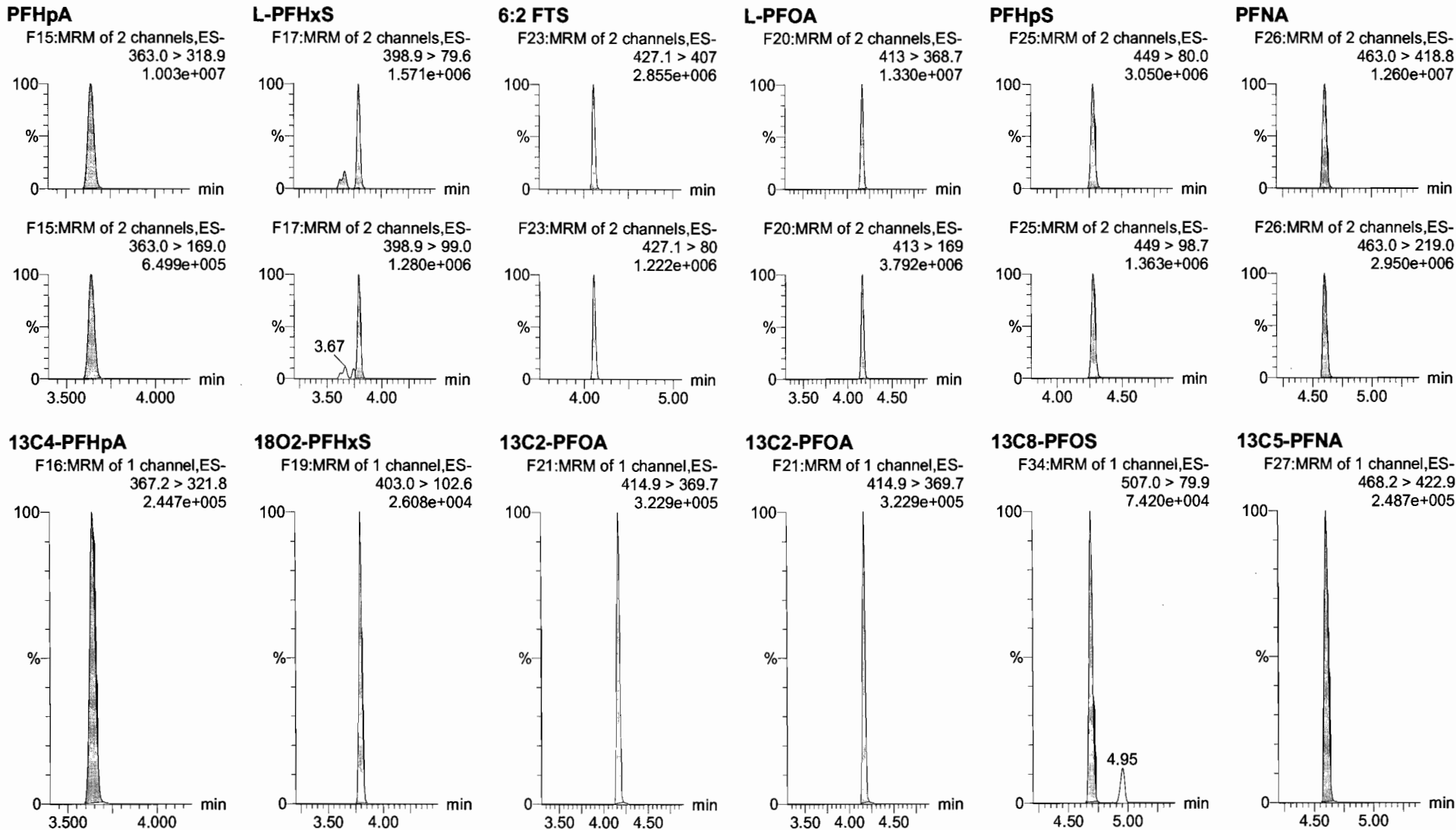
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Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
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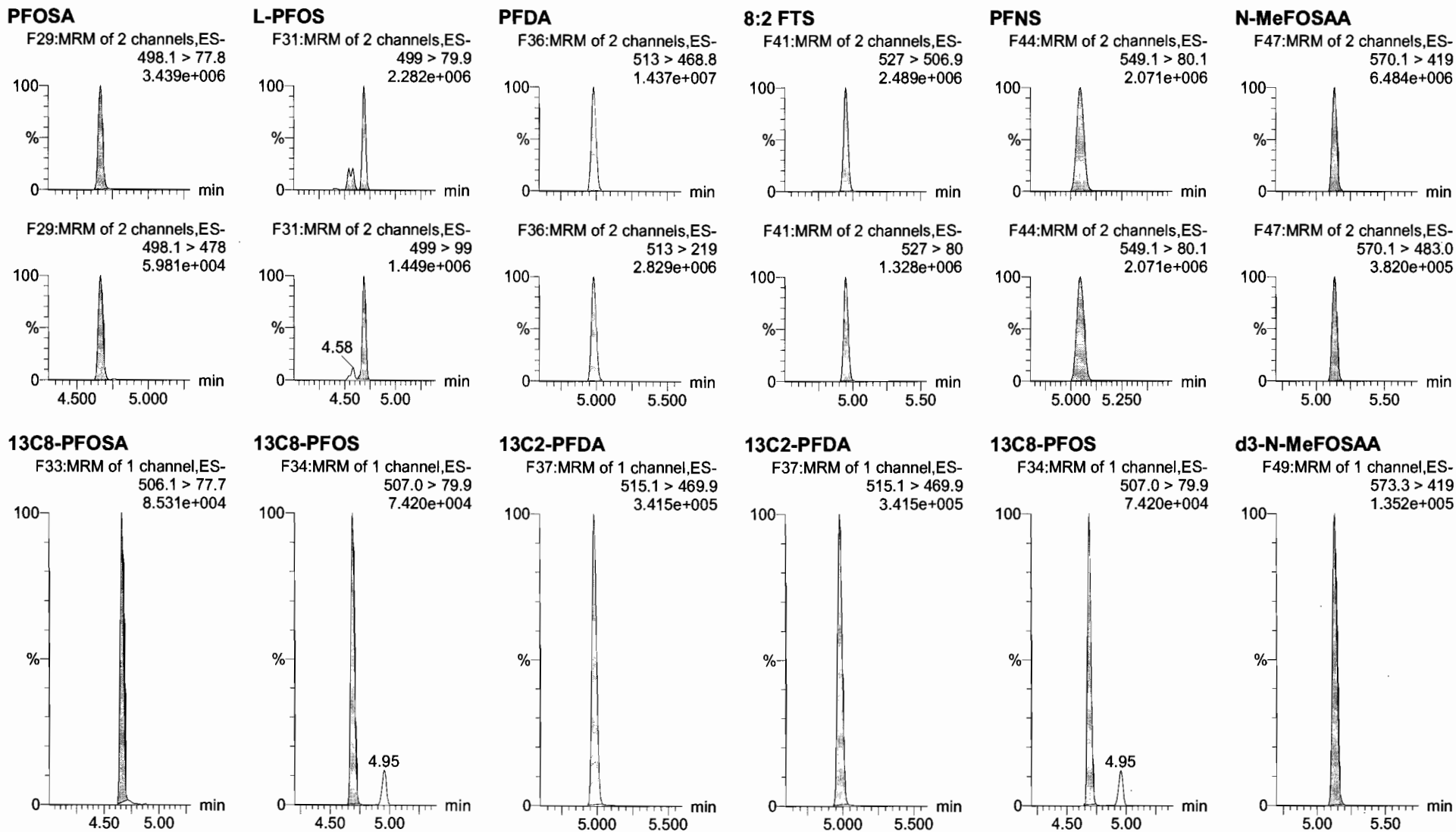
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Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

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Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_11, Date: 30-Jan-2018, Time: 13:28:04, ID: ST180130M2-10 PFC CS7 18A2404, Description: PFC CS7 18A2404



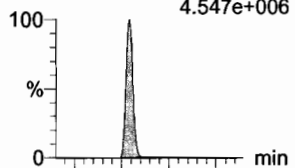
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_11, Date: 30-Jan-2018, Time: 13:28:04, ID: ST180130M2-10 PFC CS7 18A2404, Description: PFC CS7 18A2404

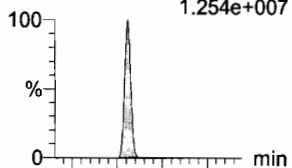
N-EtFOSAA

F50:MRM of 2 channels,ES-
584.2 > 419
4.547e+006



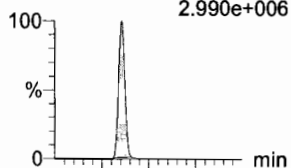
PFUdA

F45:MRM of 2 channels,ES-
563.0 > 518.9
1.254e+007



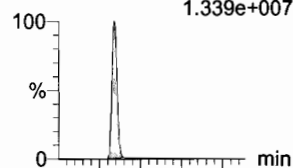
PFDS

F52:MRM of 2 channels,ES-
598.8 > 80
2.990e+006



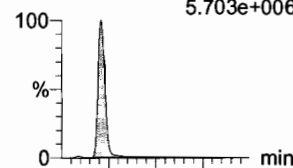
PFDdA

F53:MRM of 4 channels,ES-
612.9 > 569.0
1.339e+007



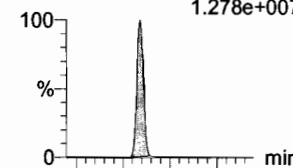
N-MeFOSA

F35:MRM of 2 channels,ES-
512.1 > 168.9
5.703e+006

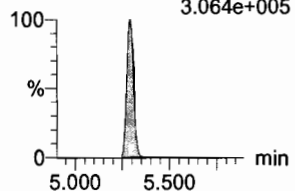


PFTrDA

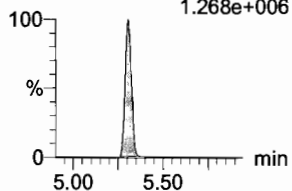
F59:MRM of 2 channels,ES-
662.9 > 618.9
1.278e+007



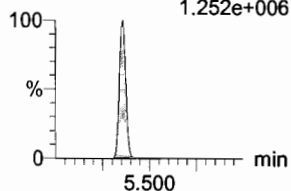
F50:MRM of 2 channels,ES-
584.2 > 483.0
3.064e+005



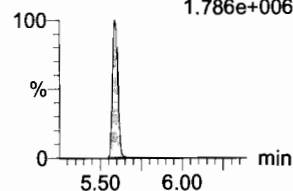
F45:MRM of 2 channels,ES-
563.0 > 269
1.268e+006



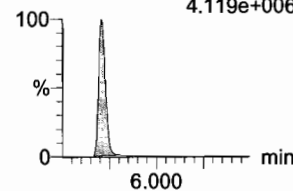
F52:MRM of 2 channels,ES-
598.8 > 98.7
1.252e+006



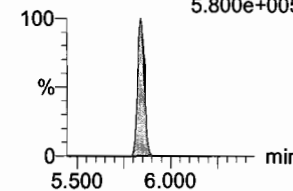
F53:MRM of 4 channels,ES-
612.9 > 318.8
1.786e+006



F35:MRM of 2 channels,ES-
512.1 > 219
4.119e+006

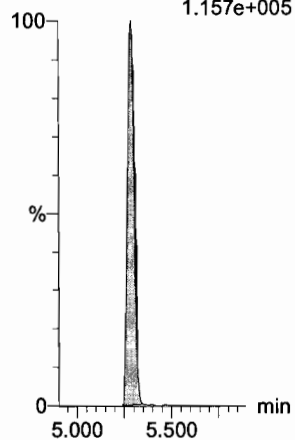


F59:MRM of 2 channels,ES-
662.9 > 319
5.800e+005



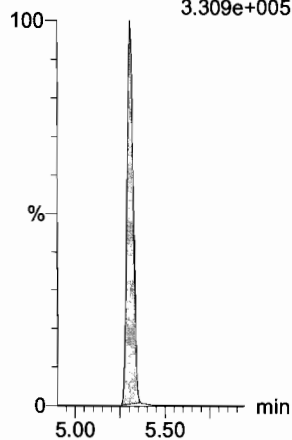
d5-N-EtFOSAA

F51:MRM of 1 channel,ES-
589.3 > 419
1.157e+005



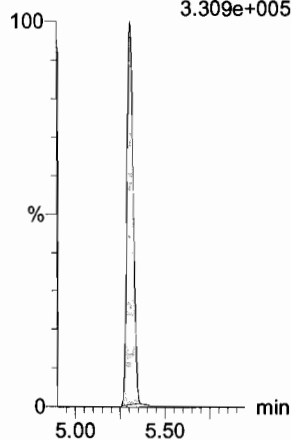
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.309e+005



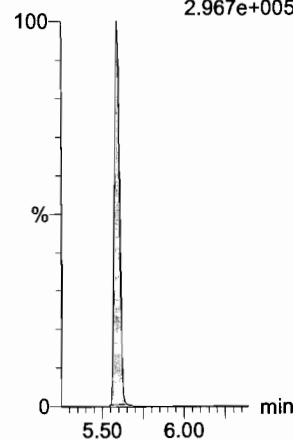
13C2-PFUdA

F46:MRM of 1 channel,ES-
565 > 519.8
3.309e+005



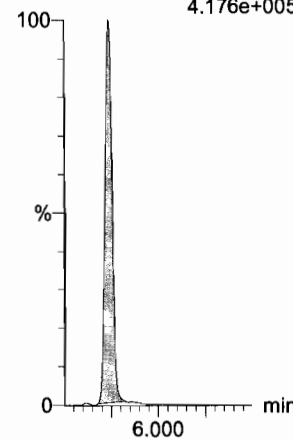
13C2-PFDdA

F54:MRM of 2 channels,ES-
615.0 > 569.7
2.967e+005



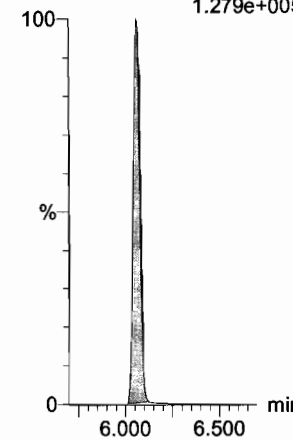
d3-N-MeFOSA

F38:MRM of 1 channel,ES-
515.2 > 168.9
4.176e+005



13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.279e+005



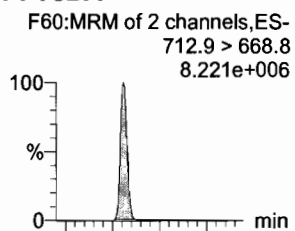
Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

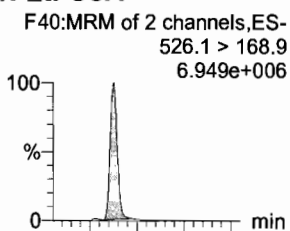
Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_11, Date: 30-Jan-2018, Time: 13:28:04, ID: ST180130M2-10 PFC CS7 18A2404, Description: PFC CS7 18A2404

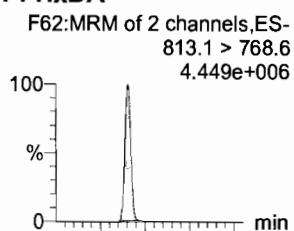
PFTeDA



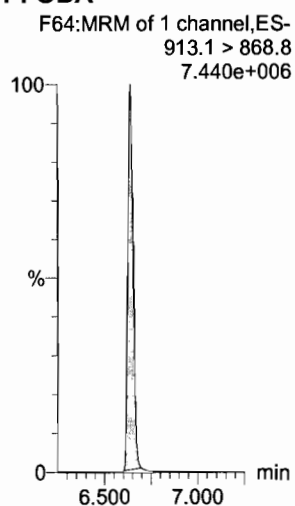
N-EtFOSA



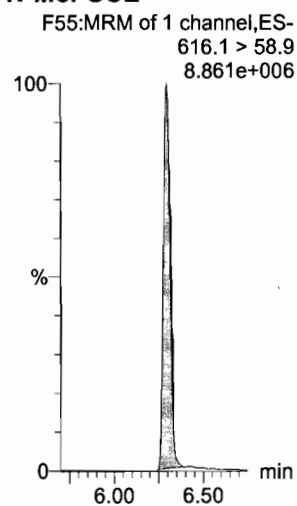
PFHxDA



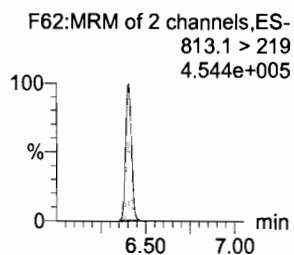
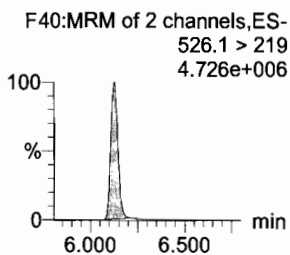
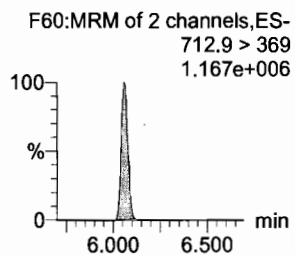
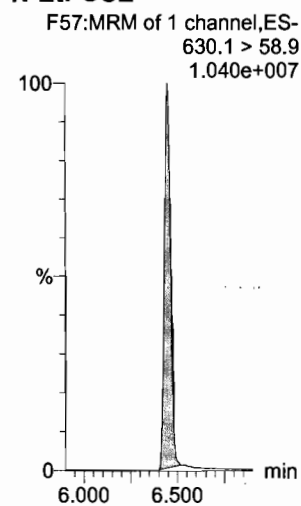
PFODA



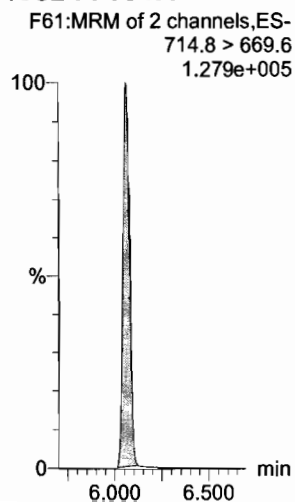
N-MeFOSE



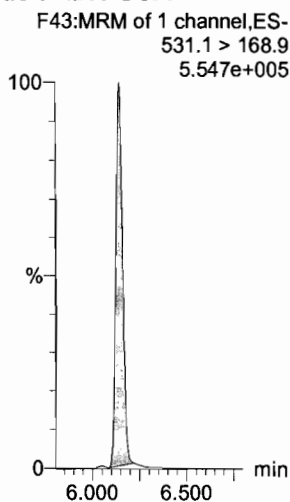
N-EtFOSE



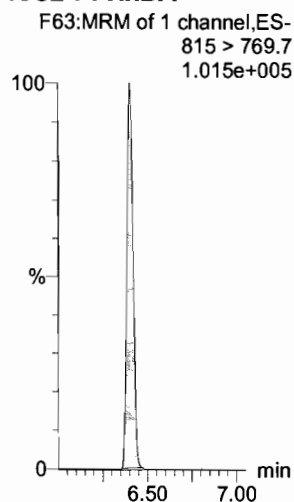
13C2-PFTeDA



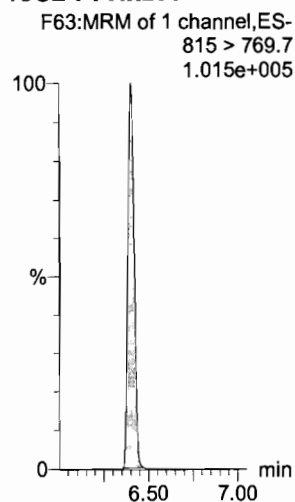
d5-N-ETFOSA



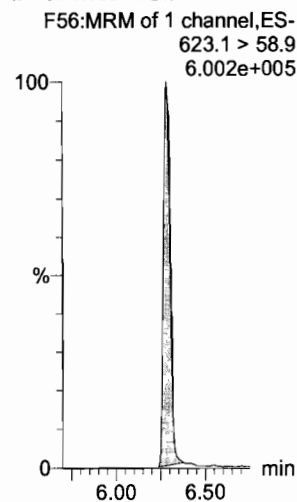
13C2-PFHxDA



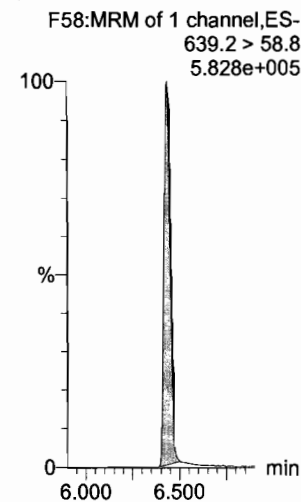
13C2-PFHxDA



d7-N-MeFOSE



d9-N-EtFOSE



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-CRV.qld

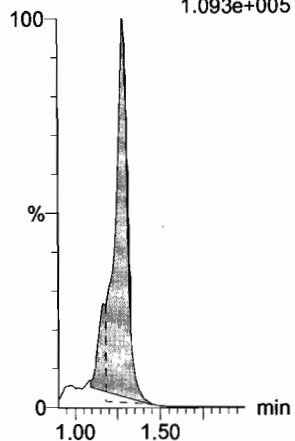
Last Altered: Wednesday, January 31, 2018 09:35:15 Pacific Standard Time

Printed: Wednesday, January 31, 2018 09:51:48 Pacific Standard Time

Name: 180130M2_11, Date: 30-Jan-2018, Time: 13:28:04, ID: ST180130M2-10 PFC CS7 18A2404, Description: PFC CS7 18A2404

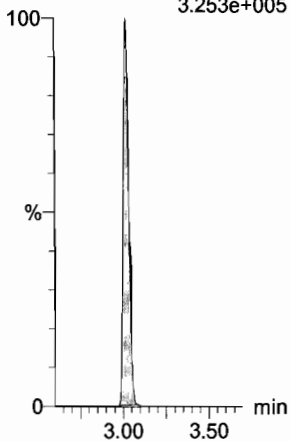
13C4-PFBA

F3:MRM of 1 channel,ES-
217. > 171.8
1.093e+005



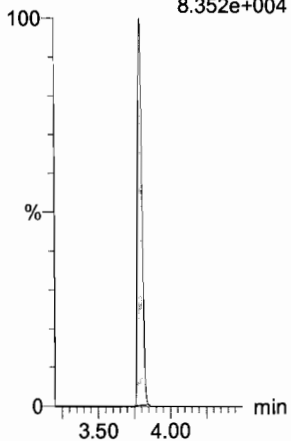
13C5-PFHxA

F10:MRM of 1 channel,ES-
318 > 272.9
3.253e+005



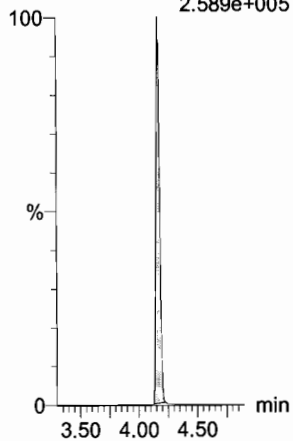
13C3-PFHxS

F18:MRM of 1 channel,ES-
401.9 > 79.9
8.352e+004



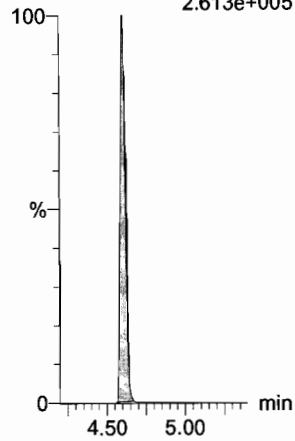
13C8-PFOA

F22:MRM of 1 channel,ES-
421.3 > 376
2.589e+005



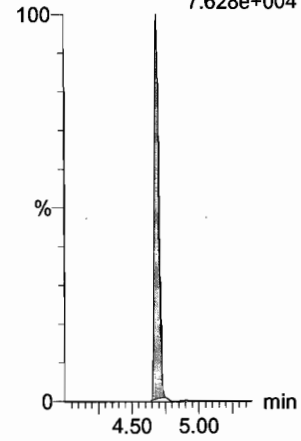
13C9-PFNA

F28:MRM of 1 channel,ES-
472.2 > 426.9
2.613e+005



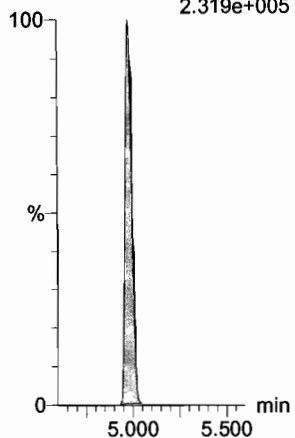
13C4-PFOS

F32:MRM of 1 channel,ES-
503 > 79.9
7.628e+004



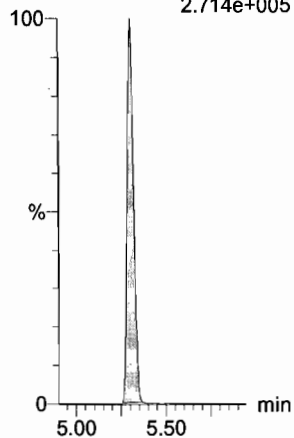
13C6-PFDA

F39:MRM of 1 channel,ES-
519.1 > 473.7
2.319e+005



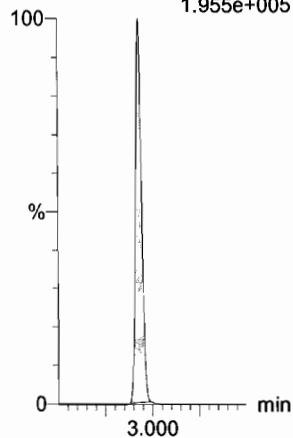
13C7-PFUdA

F48:MRM of 1 channel,ES-
570.1 > 524.8
2.714e+005



13C2-4:2 FTS

F12:MRM of 1 channel,ES-
329.2 > 308.9
1.955e+005



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-13.qld

(A) No SS available.

Last Altered: Wednesday, January 31, 2018 10:21:58 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:28:05 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 09:53:30

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_13, Date: 30-Jan-2018, Time: 13:51:03, ID: ICV180130M2-1 PFC ICV 18A1903, Description: PFC ICV 18A1903

AC
1/31/18

✓ JA.
01/31/2018

#	Name	Trace	Area	IS Area	RRF	Divisor1	Pred RT	RT	y Axis Resp	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	6.17e3	7.16e3	1.0000		1.29	1.29	10.8	9.289	92.9
2	2 PFPeA	263.1 > 218.9	9.33e3	1.18e4	1.0000		2.27	2.25	9.91	9.783	97.8
3	3 PFBS	299.0 > 79.7	1.91e3	1.52e3	1.0000		2.56	2.52	15.7	8.720	87.2
4	4 4:2 FTS	327.2 > 307.2	2.44e3	1.52e3	1.0000		2.93	2.93	20.1	10.83	108.3
5	5 PFHxA	313.2 > 268.9	1.29e4	4.05e3	1.0000		3.05	3.02	15.9	9.864	98.6
6	6 PFPeS	349.1 > 80.1	2.36e3	1.52e3	1.0000		3.23	3.23	19.4	9.994	99.9
7	7 PFHpA	363.0 > 318.9	1.06e4	1.03e4	1.0000		3.68	3.64	12.9	10.85	108.5
8	8 L-PFHxS	398.9 > 79.6	1.42e3	1.11e3	1.0000		3.80	3.80	15.9	8.576	85.8
9	10 6:2 FTS	427.1 > 407	2.60e3	1.42e4	1.0000		4.15	4.11	2.28	9.839	98.4
10	11 L-PFOA	413 > 368.7	1.12e4	1.42e4	1.0000		4.20	4.17	9.82	9.300	93.0
11	13 PFHpS	449 > 80.0	2.37e3	3.19e3	1.0000		4.30	4.28	9.30	9.228	92.3
12	14 PFNA	463.0 > 418.8	1.25e4	1.29e4	1.0000		4.65	4.61	12.2	9.799	98.0
13	15 PFOSA	498.1 > 77.8	3.04e3	3.14e3	1.0000		4.70	4.67	12.1	11.07	110.7
14	16 L-PFOS	499 > 79.9	2.50e3	3.19e3	1.0000		4.75	4.69	9.81	9.205	92.0
15	18 PFDA	513 > 468.8	1.32e4	1.21e4	1.0000		5.03	4.98	13.6	10.47	104.7
16	19 8:2 FTS	527 > 506.9	2.27e3	1.21e4	1.0000		5.00	4.95	2.35	9.494	94.9
17	20 PFNS	549.1 > 80.1		3.19e3							(A)
18	21 N-MeFOSAA	570.1 > 419	6.65e3	6.01e3	1.0000		5.20	5.14	13.8	8.833	88.3
19	22 N-EtFOSAA	584.2 > 419	5.26e3	5.21e3	1.0000		5.30	5.29	12.6	11.51	115.1
20	23 PFUdA	563.0 > 518.9	1.26e4	1.24e4	1.0000		5.36	5.31	12.7	10.78	107.8
21	24 PFDS	598.8 > 80	2.94e3	1.24e4	1.0000		5.40	5.36	2.96	10.93	109.3
22	25 PFDoA	612.9 > 569.0	1.22e4	9.05e3	1.0000		5.65	5.59	16.9	11.37	113.7
23	26 N-MeFOSA	512.1 > 168.9		1.73e4	1.0000		5.70				(A)
24	27 PFTTrDA	662.9 > 618.9	1.16e4	4.31e3	1.0000		5.90	5.84	33.8	8.979	89.8
25	28 PFTeDA	712.9 > 668.8	7.46e3	4.31e3	1.0000		6.12	6.06	21.7	9.360	93.6
26	29 N-EtFOSA	526.1 > 168.9		2.66e4	1.0000		6.12				(A)
27	30 PFHxDA	813.1 > 768.6		3.02e3	1.0000		6.46				
28	31 PFODA	913.1 > 868.8		3.02e3	1.0000		6.70				
29	32 N-MeFOSE	616.1 > 58.9		2.22e4	1.0000		6.31				
30	33 N-EtFOSE	630.1 > 58.9		1.85e4	1.0000		6.45				
31	Work Order 0509183	216.1 > 171.8	7.16e3	8.08e3	0.842	1.0000	1.30	1.29	11.1	13.16	105.3

10-130
↓
(A)
↓
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↓
(A)
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Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-13.qld

Last Altered: Wednesday, January 31, 2018 10:21:58 Pacific Standard Time

Printed: Wednesday, January 31, 2018 10:28:05 Pacific Standard Time

Name: 180130M2_13, Date: 30-Jan-2018, Time: 13:51:03, ID: ICV180130M2-1 PFC ICV 18A1903, Description: PFC ICV 18A1903

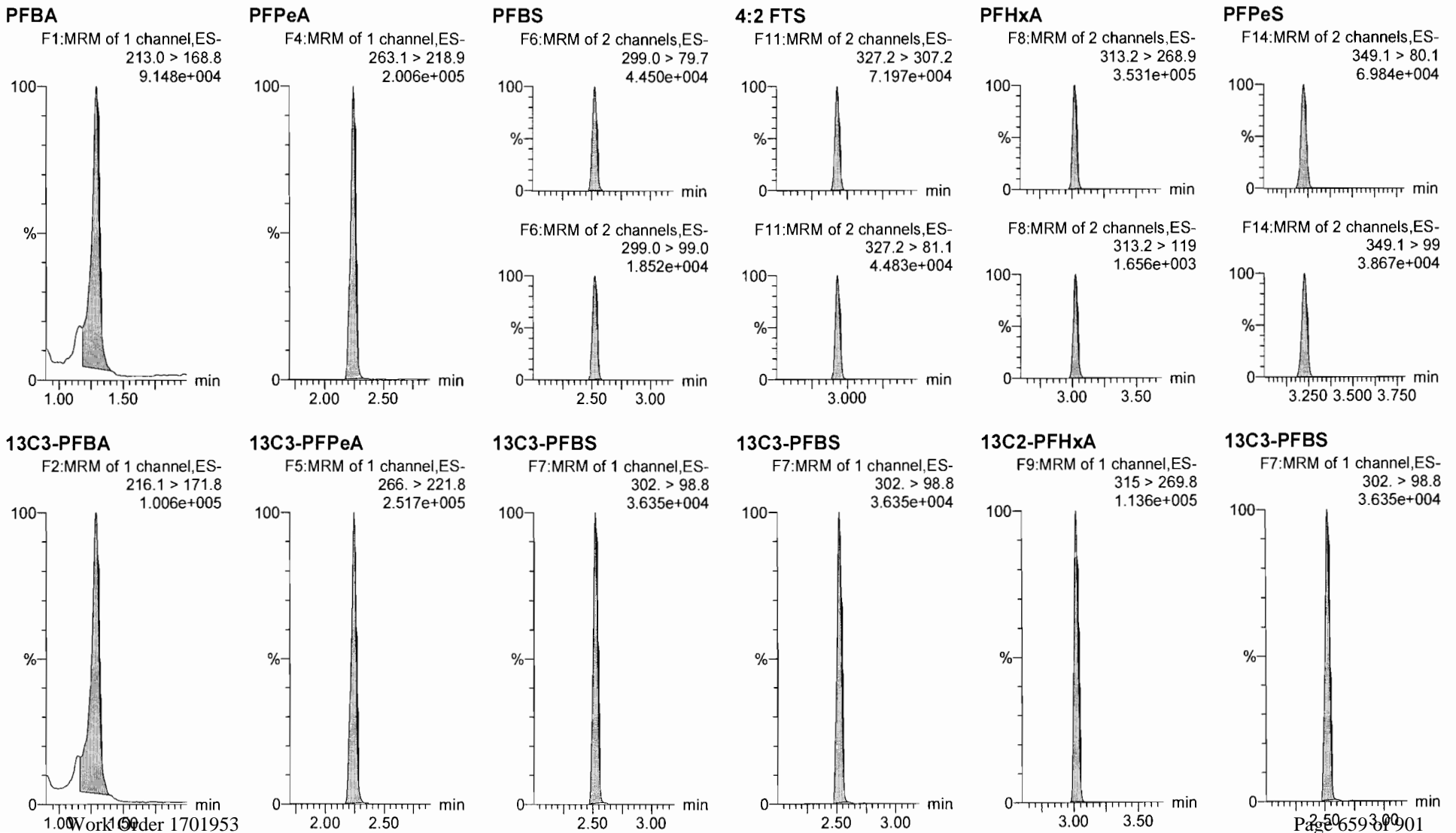
	# Name	Trace	Area	IS Area	RRF	Divisor1	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C3-PFPeA	266. > 221.8	1.18e4	1.50e4	0.870	1.0000	2.27	2.25	9.78	11.23	89.9
33	36 13C3-PFBS	302. > 98.8	1.52e3	1.50e4	0.109	1.0000	2.56	2.53	1.26	11.57	92.5
34	37 13C2-PFHxA	315 > 269.8	4.05e3	1.50e4	0.684	1.0000	3.05	3.02	3.37	4.922	98.4
35	38 13C4-PFHpA	367.2 > 321.8	1.03e4	1.50e4	0.732	1.0000	3.68	3.64	8.54	11.67	93.3
36	39 18O2-PFHxS	403.0 > 102.6	1.11e3	3.19e3	0.318	1.0000	3.80	3.80	4.35	13.67	109.4
37	40 13C2-6:2 FTS	429.1 > 408.9	3.29e3	1.27e4	0.263	1.0000	4.15	4.11	3.23	12.27	98.2
38	41 13C2-PFOA	414.9 > 369.7	1.42e4	1.27e4	1.120	1.0000	4.20	4.17	14.0	12.49	99.9
39	42 13C5-PFNA	468.2 > 422.9	1.29e4	1.45e4	0.921	1.0000	4.65	4.61	11.1	12.08	96.6
40	43 13C8-PFOSA	506.1 > 77.7	3.14e3	1.35e4	0.245	1.0000	4.70	4.67	2.90	11.86	94.9
41	44 13C8-PFOS	507.0 > 79.9	3.19e3	3.20e3	1.034	1.0000	4.75	4.69	12.5	12.07	96.5
42	45 13C2-PFDA	515.1 > 469.9	1.21e4	1.10e4	1.080	1.0000	5.03	4.98	13.7	12.70	101.6
43	46 13C2-8:2 FTS	529.1 > 508.7	2.03e3	1.50e4	0.165	1.0000	5.00	4.95	1.68	10.22	81.7
44	47 d3-N-MeFOSAA	573.3 > 419	6.01e3	1.35e4	0.398	1.0000	5.20	5.13	5.55	13.96	111.7
45	48 d5-N-EtFOSAA	589.3 > 419	5.21e3	1.35e4	0.425	1.0000	5.30	5.29	4.81	11.32	90.6
46	49 13C2-PFUdA	565 > 519.8	1.24e4	1.35e4	1.047	1.0000	5.36	5.31	11.5	10.95	87.6
47	50 13C2-PFDoA	615.0 > 569.7	9.05e3	1.35e4	0.805	1.0000	5.65	5.59	8.35	10.37	83.0
48	51 d3-N-MeFOSA	515.2 > 168.9	1.73e4	1.35e4	0.104	1.0000	5.70	5.74	16.0	154.6	103.0
49	52 13C2-PFTeDA	714.8 > 669.6	4.31e3	1.35e4	0.367	1.0000	6.12	6.06	3.98	10.84	86.7
50	53 d5-N-ETFOSA	531.1 > 168.9	2.66e4	1.35e4	0.155	1.0000	6.25	6.15	24.6	158.9	106.0
51	54 13C2-PFHxDA	815 > 769.7	3.02e3	1.35e4	0.721	1.0000	6.46	6.41	2.79	3.868	77.4
52	55 d7-N-MeFOSE	623.1 > 58.9	2.22e4	1.35e4	0.143	1.0000	6.31	6.29	20.5	144.1	96.1
53	56 d9-N-EtFOSE	639.2 > 58.8	1.85e4	1.35e4	0.133	1.0000	6.12	6.44	17.1	128.7	85.8
54	57 13C4-PFBA	217. > 171.8	8.08e3	8.08e3	1.000	1.0000	1.30	1.29	12.5	12.50	100.0
55	58 13C5-PFHxA	318 > 272.9	1.50e4	1.50e4	1.000	1.0000	3.05	3.02	12.5	12.50	100.0
56	59 13C3-PFHxS	401.9 > 79.9	3.19e3	3.19e3	1.000	1.0000	3.80	3.79	12.5	12.50	100.0
57	60 13C8-PFOA	421.3 > 376	1.27e4	1.27e4	1.000	1.0000	4.20	4.16	12.5	12.50	100.0
58	61 13C9-PFNA	472.2 > 426.9	1.45e4	1.45e4	1.000	1.0000	4.65	4.61	12.5	12.50	100.0
59	62 13C4-PFOS	503 > 79.9	3.20e3	3.20e3	1.000	1.0000	4.60	4.69	12.5	12.50	100.0
60	63 13C6-PFDA	519.1 > 473.7	1.10e4	1.10e4	1.000	1.0000	5.03	4.98	12.5	12.50	100.0
61	64 13C7-PFUdA	570.1 > 524.8	1.35e4	1.35e4	1.000	1.0000	5.36	5.31	12.5	12.50	100.0
62	72 13C2-4:2 FTS	329.2>308.9	3.54e3	1.50e4	0.275	1.0000	2.93	2.93	2.95	10.72	85.7

Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-13.qld

Last Altered: Wednesday, January 31, 2018 10:21:58 Pacific Standard Time
Printed: Wednesday, January 31, 2018 10:28:05 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_013018.mdb 31 Jan 2018 09:53:30
Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_01-30-18-FULL.cdb 31 Jan 2018 09:33:43

Name: 180130M2_13, Date: 30-Jan-2018, Time: 13:51:03, ID: ICV180130M2-1 PFC ICV 18A1903, Description: PFC ICV 18A1903



Dataset: F:\Projects\PFAS.PRO\Results\180130M2\180130M2-13.qld

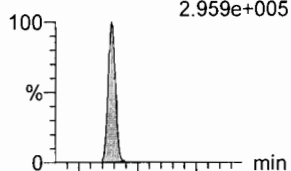
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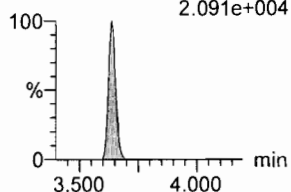
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PFHpA

F15:MRM of 2 channels,ES-
363.0 > 318.9
2.959e+005

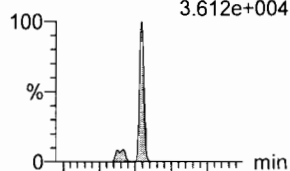


F15:MRM of 2 channels,ES-
363.0 > 169.0
2.091e+004

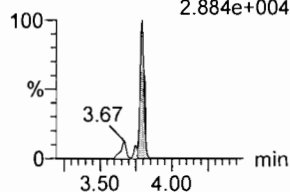


L-PFHxS

F17:MRM of 2 channels,ES-
398.9 > 79.6
3.612e+004

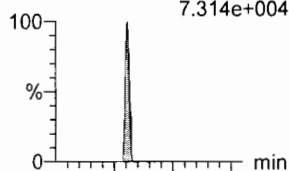


F17:MRM of 2 channels,ES-
398.9 > 99.0
2.884e+004

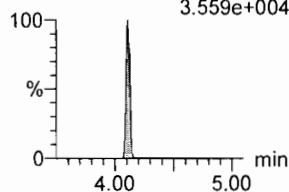


6:2 FTS

F23:MRM of 2 channels,ES-
427.1 > 407
7.314e+004

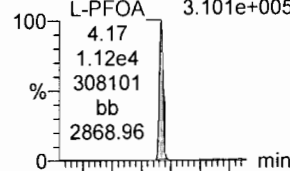


F23:MRM of 2 channels,ES-
427.1 > 80
3.559e+004

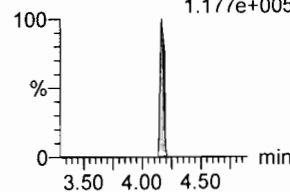


L-PFOA

F20:MRM of 2 channels,ES-
413 > 368.7
3.101e+005

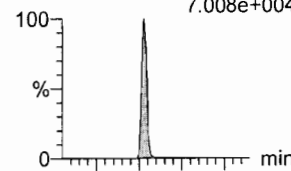


F20:MRM of 2 channels,ES-
413 > 169
1.177e+005

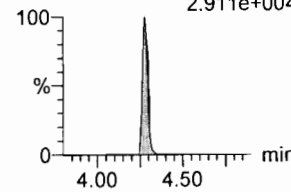


PFHpS

F25:MRM of 2 channels,ES-
449 > 80.0
7.008e+004

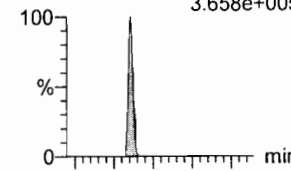


F25:MRM of 2 channels,ES-
449 > 98.7
2.911e+004

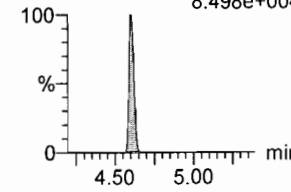


PFNA

F26:MRM of 2 channels,ES-
463.0 > 418.8
3.658e+005

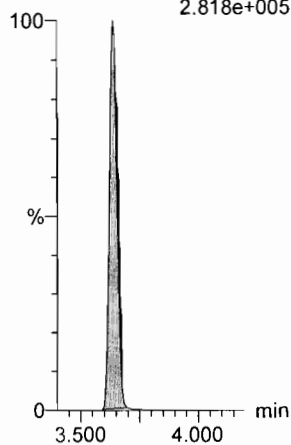


F26:MRM of 2 channels,ES-
463.0 > 219.0
8.498e+004



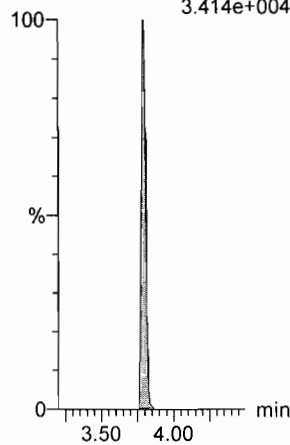
13C4-PFHpA

F16:MRM of 1 channel,ES-
367.2 > 321.8
2.818e+005



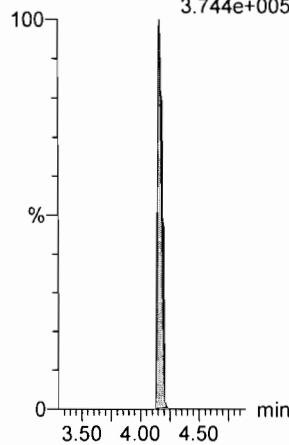
18O2-PFHxS

F19:MRM of 1 channel,ES-
403.0 > 102.6
3.414e+004



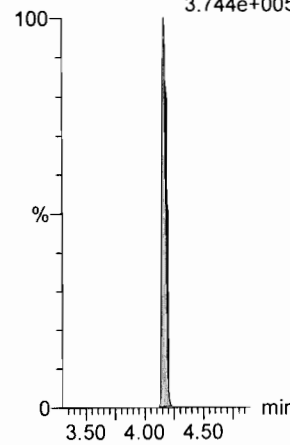
13C2-PFOA

F21:MRM of 1 channel,ES-
414.9 > 369.7
3.744e+005



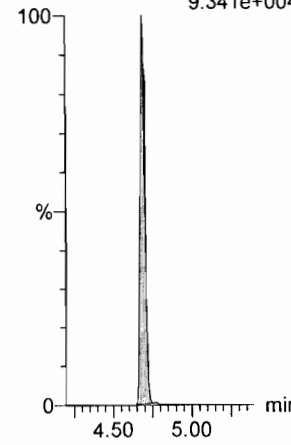
13C2-PFOA

F21:MRM of 1 channel,ES-
414.9 > 369.7
3.744e+005



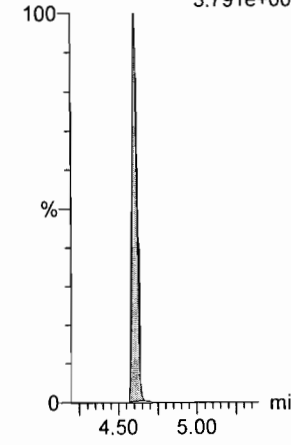
13C8-PFOS

F34:MRM of 1 channel,ES-
507.0 > 79.9
9.341e+004



13C5-PFNA

F27:MRM of 1 channel,ES-
468.2 > 422.9
3.791e+005



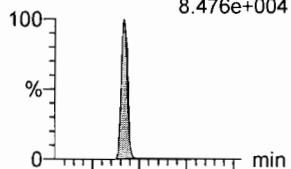
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Last Altered: Wednesday, January 31, 2018 10:21:58 Pacific Standard Time
Printed: Wednesday, January 31, 2018 10:28:05 Pacific Standard Time

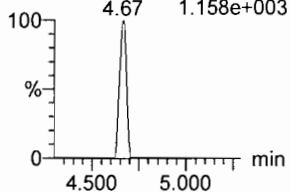
Name: 180130M2_13, Date: 30-Jan-2018, Time: 13:51:03, ID: ICV180130M2-1 PFC ICV 18A1903, Description: PFC ICV 18A1903

PFOSA

F29:MRM of 2 channels,ES-
498.1 > 77.8
8.476e+004

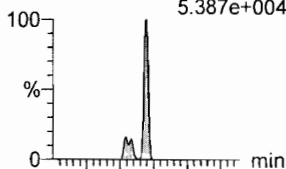


F29:MRM of 2 channels,ES-
498.1 > 478
1.158e+003

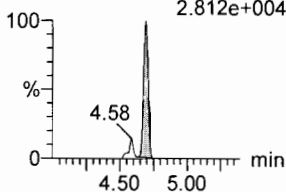


L-PFOS

F31:MRM of 2 channels,ES-
499 > 79.9
5.387e+004

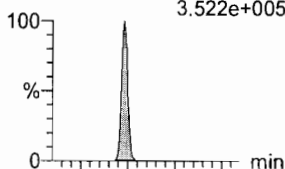


F31:MRM of 2 channels,ES-
499 > 99
2.812e+004

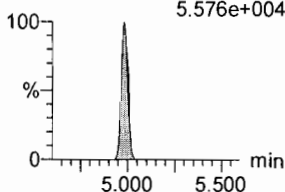


PFDA

F36:MRM of 2 channels,ES-
513 > 468.8
3.522e+005

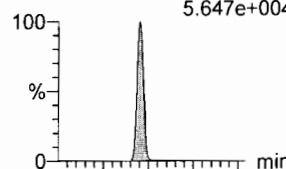


F36:MRM of 2 channels,ES-
513 > 219
5.576e+004

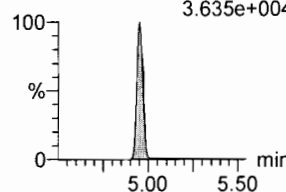


8:2 FTS

F41:MRM of 2 channels,ES-
527 > 506.9
5.647e+004

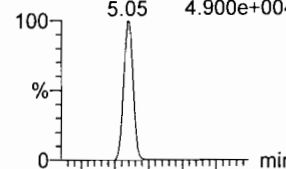


F41:MRM of 2 channels,ES-
527 > 80
3.635e+004

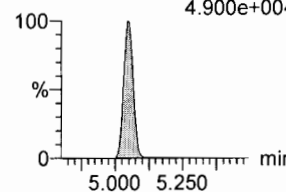


PFNS

F44:MRM of 2 channels,ES-
549.1 > 80.1
4.900e+004

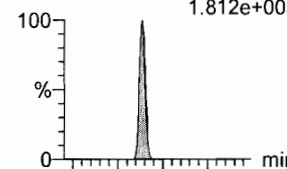


F44:MRM of 2 channels,ES-
549.1 > 80.1
4.900e+004

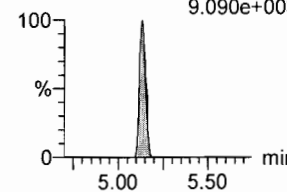


N-MeFOSAA

F47:MRM of 2 channels,ES-
570.1 > 419
1.812e+005

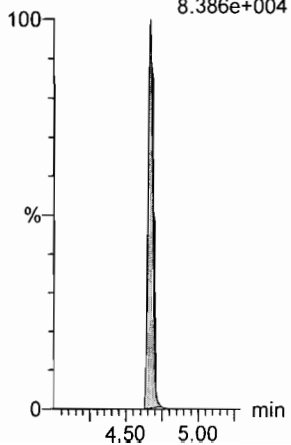


F47:MRM of 2 channels,ES-
570.1 > 483.0
9.090e+003



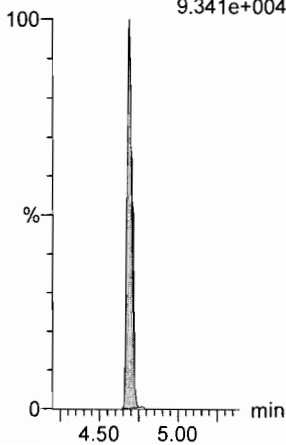
13C8-PFOSA

F33:MRM of 1 channel,ES-
506.1 > 77.7
8.386e+004



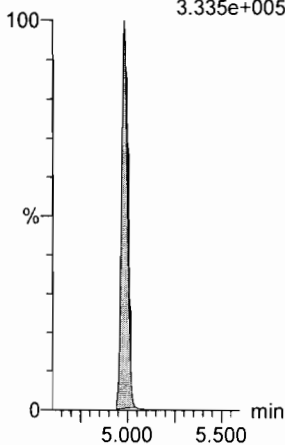
13C8-PFOS

F34:MRM of 1 channel,ES-
507.0 > 79.9
9.341e+004



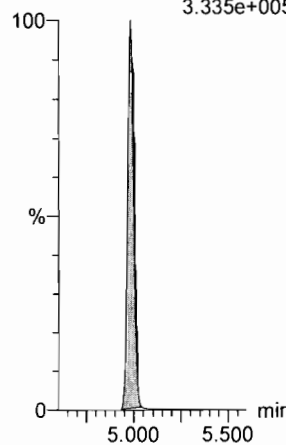
13C2-PFDA

F37:MRM of 1 channel,ES-
515.1 > 469.9
3.335e+005



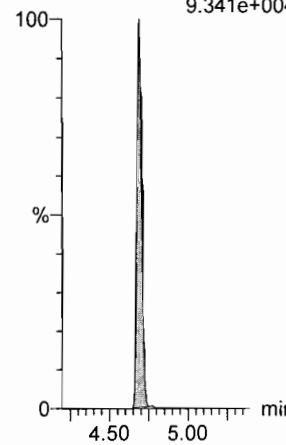
13C2-PFDA

F37:MRM of 1 channel,ES-
515.1 > 469.9
3.335e+005



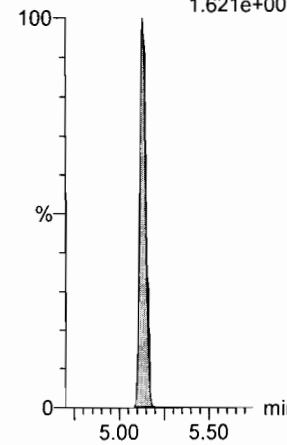
13C8-PFOS

F34:MRM of 1 channel,ES-
507.0 > 79.9
9.341e+004



d3-N-MeFOSAA

F49:MRM of 1 channel,ES-
573.3 > 419
1.621e+005



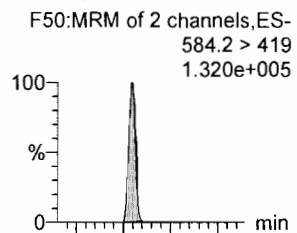
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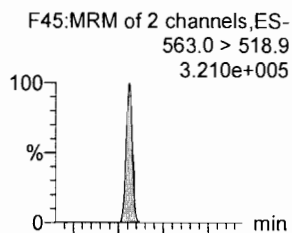
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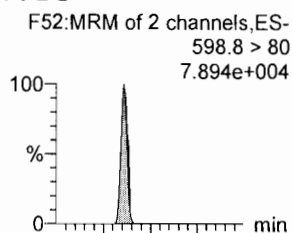
N-EtFOSAA



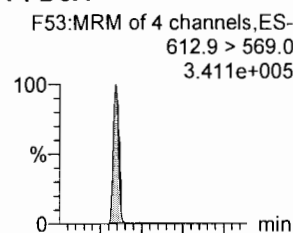
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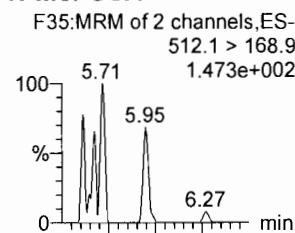
PFDS



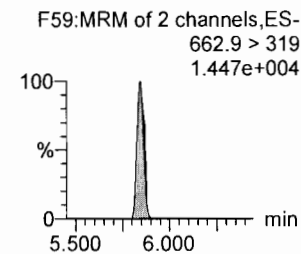
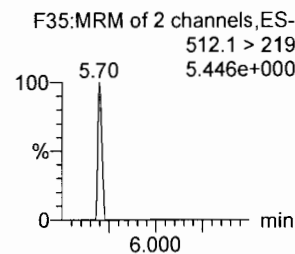
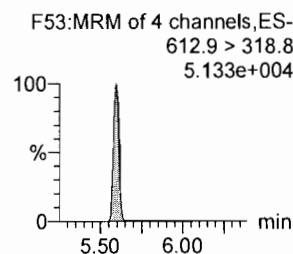
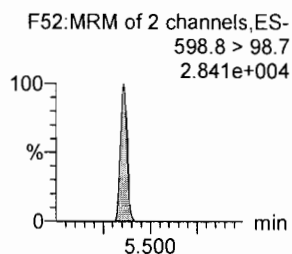
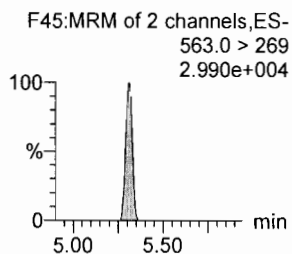
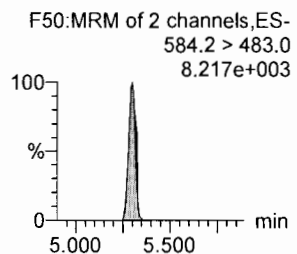
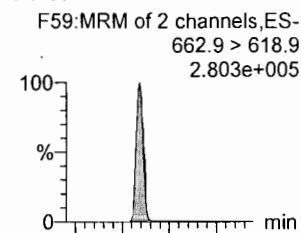
PFDaA



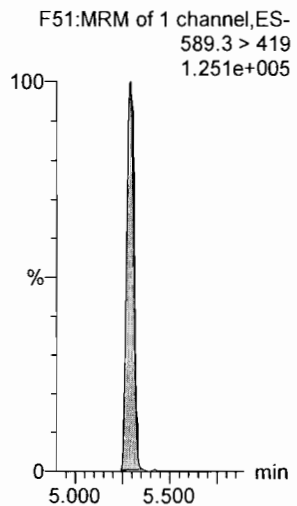
N-MeFOSA



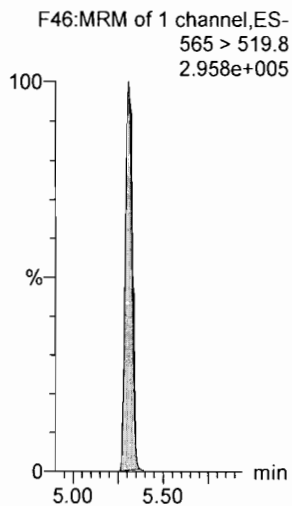
PFTrDA



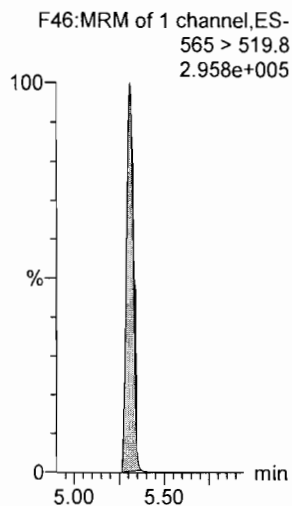
d3-N-EtFOSAA



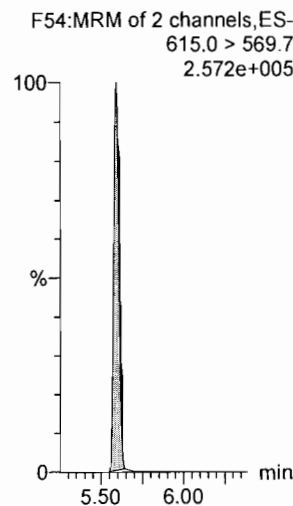
13C2-PFUdA



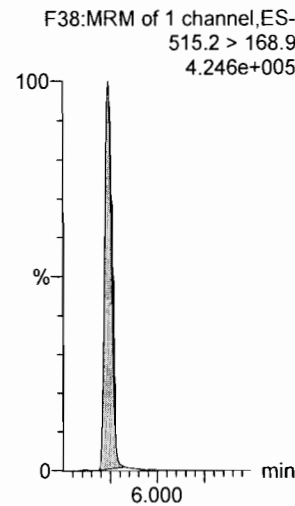
13C2-PFUdA



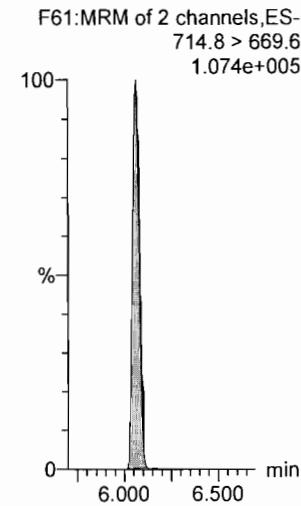
13C2-PFDaA



d3-N-MeFOSA



13C2-PFTeDA



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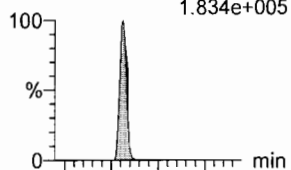
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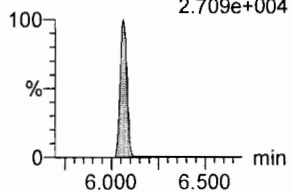
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PFTeDA

F60:MRM of 2 channels,ES-
712.9 > 668.8
1.834e+005

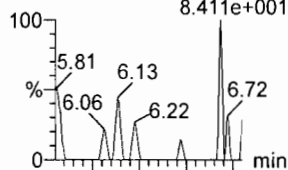


F60:MRM of 2 channels,ES-
712.9 > 369
2.709e+004

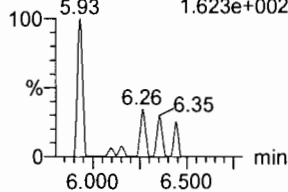


N-EtFOSA

F40:MRM of 2 channels,ES-
526.1 > 168.9
8.411e+001

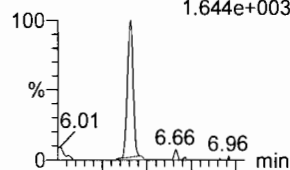


F40:MRM of 2 channels,ES-
526.1 > 219
1.623e+002

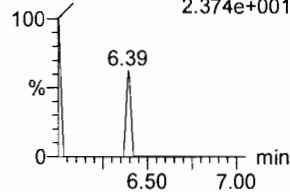


PFHxDA

F62:MRM of 2 channels,ES-
813.1 > 768.6
1.644e+003



F62:MRM of 2 channels,ES-
813.1 > 219
2.374e+001



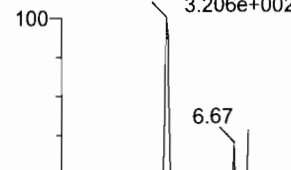
PFODA

F64:MRM of 1 channel,ES-
913.1 > 868.8
2.617e+003

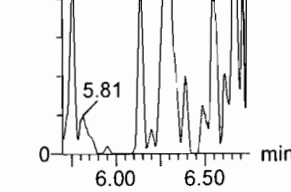


N-MeFOSE

F55:MRM of 1 channel,ES-
616.1 > 58.9
3.206e+002



F55:MRM of 1 channel,ES-
616.1 > 58.9
3.206e+002

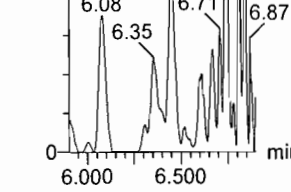


N-EtFOSE

F57:MRM of 1 channel,ES-
630.1 > 58.9
5.130e+002

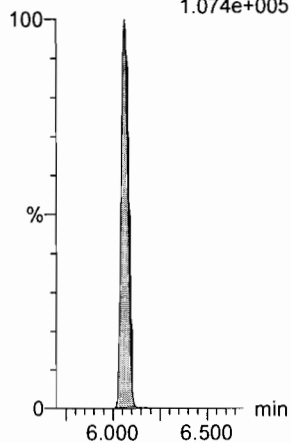


F57:MRM of 1 channel,ES-
630.1 > 58.9
5.130e+002



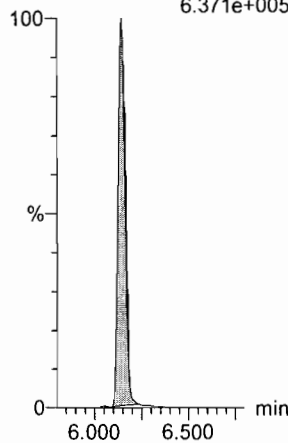
13C2-PFTeDA

F61:MRM of 2 channels,ES-
714.8 > 669.6
1.074e+005



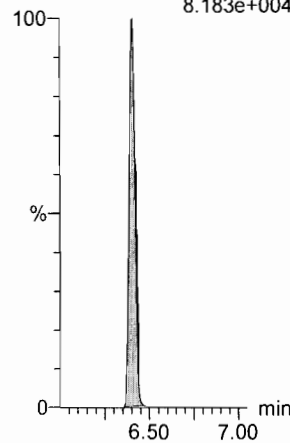
d5-N-ETFOSA

F43:MRM of 1 channel,ES-
531.1 > 168.9
6.371e+005



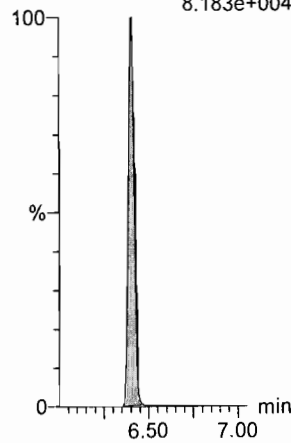
13C2-PFHxDA

F63:MRM of 1 channel,ES-
815 > 769.7
8.183e+004



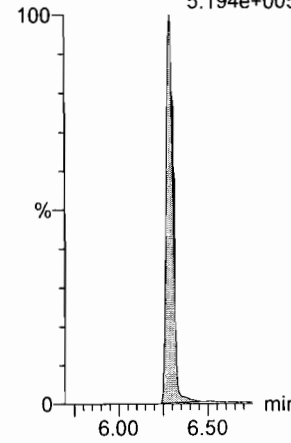
13C2-PFHxDA

F63:MRM of 1 channel,ES-
815 > 769.7
8.183e+004



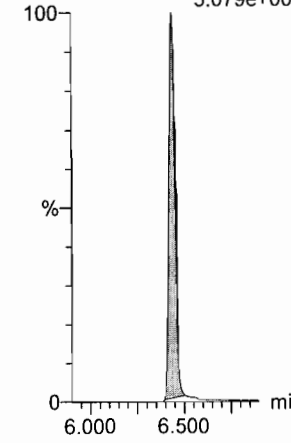
d7-N-MeFOSE

F56:MRM of 1 channel,ES-
623.1 > 58.9
5.194e+005



d9-N-EtFOSE

F58:MRM of 1 channel,ES-
639.2 > 58.8
5.079e+005

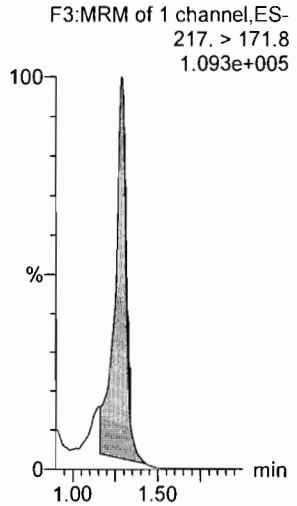


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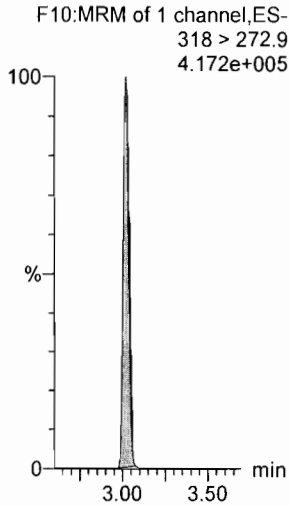
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Printed: Wednesday, January 31, 2018 10:28:05 Pacific Standard Time

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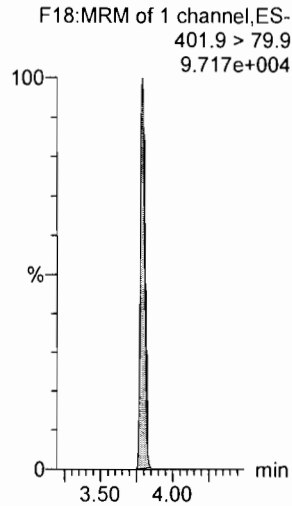
13C4-PFBA



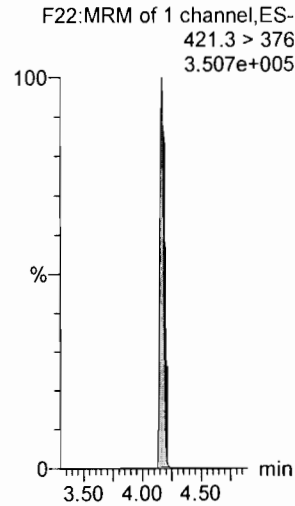
13C5-PFHxA



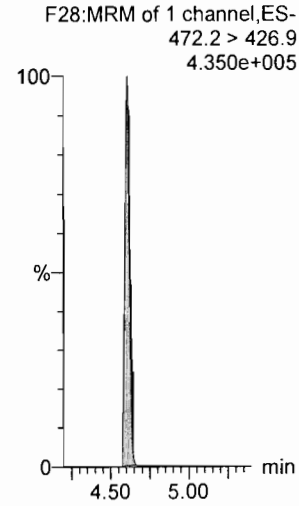
13C3-PFHxS



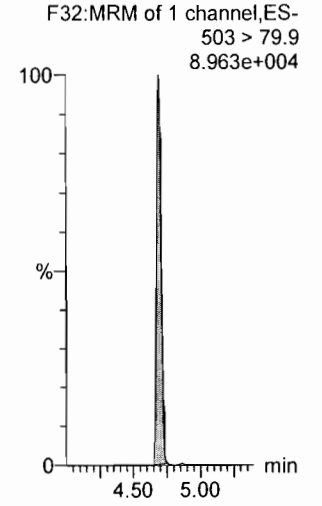
13C8-PFOA



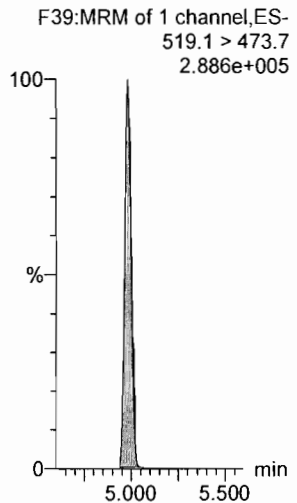
13C9-PFNA



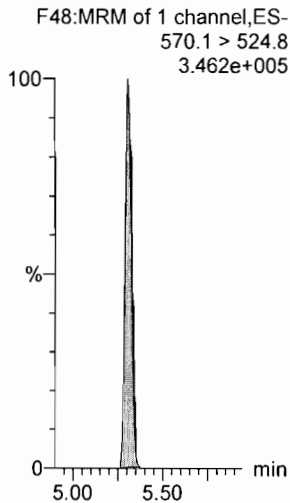
13C4-PFOS



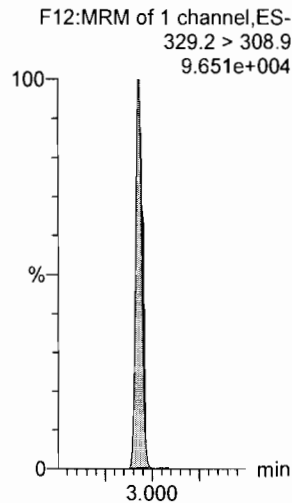
13C6-PFDA



13C7-PFUdA



13C2-4:2 FTS



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Last Altered: Thursday, August 31, 2017 08:50:07 Pacific Daylight Time

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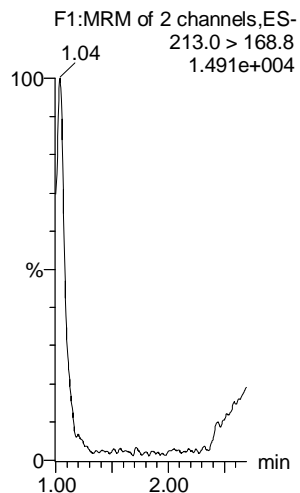
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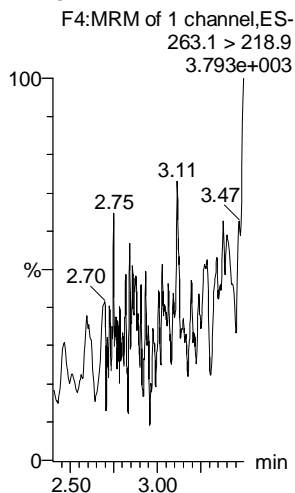
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Name: 170830M1_13, Date: 30-Aug-2017, Time: 18:54:45, ID: IPA, Description: IPA

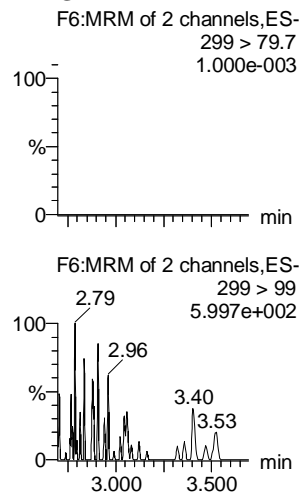
PFBA



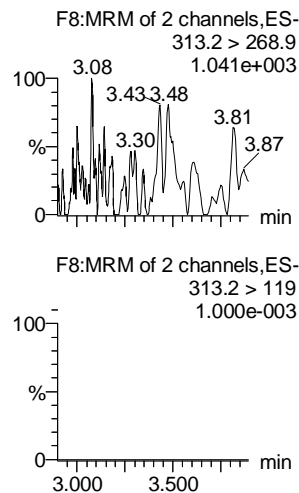
PFPeA



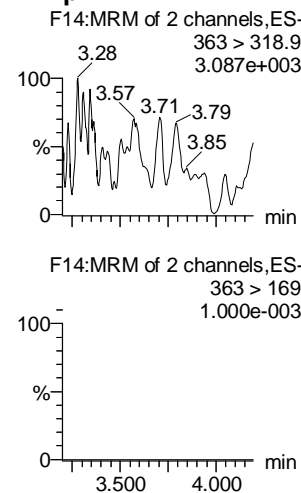
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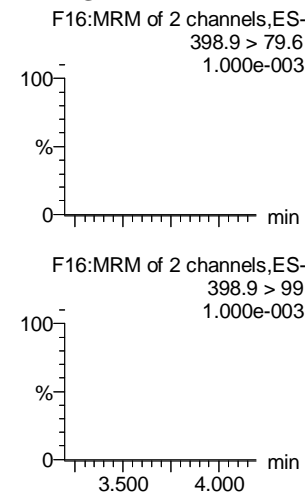
PFHxA



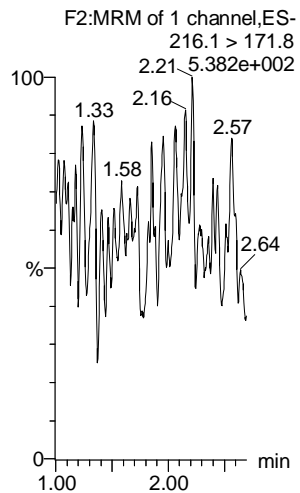
PFHpA



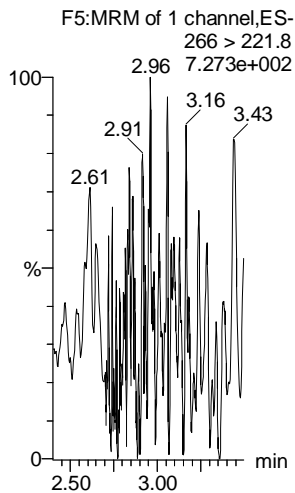
PFHxS



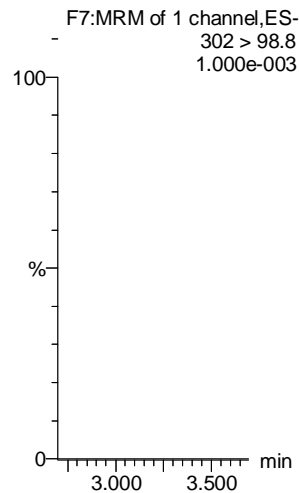
13C3-PFBA



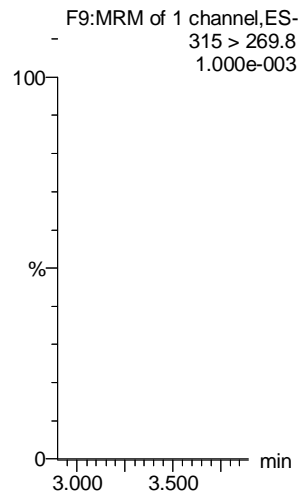
13C3-PFPeA



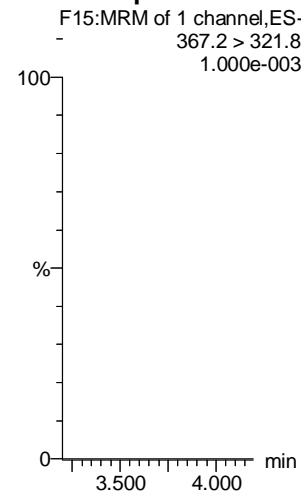
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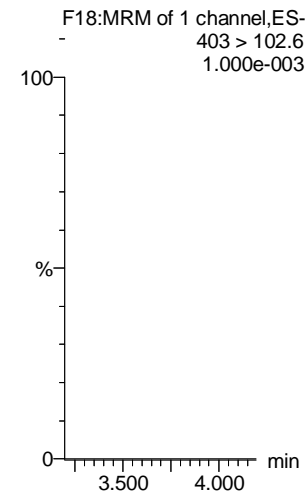
13C2-PFHxA



13C4-PFHpA



18O2-PFHxS



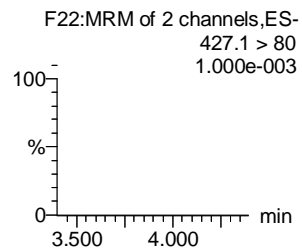
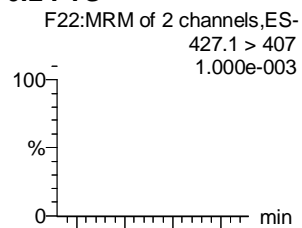
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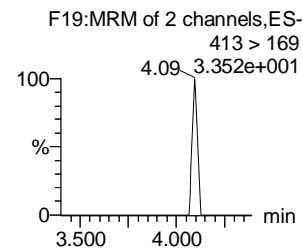
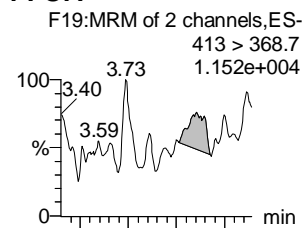
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Name: 170830M1_13, Date: 30-Aug-2017, Time: 18:54:45, ID: IPA, Description: IPA

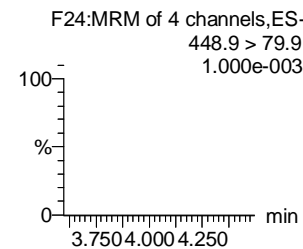
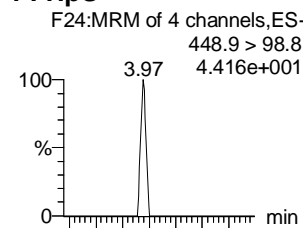
6:2 FTS



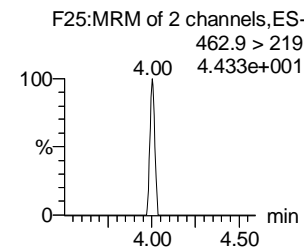
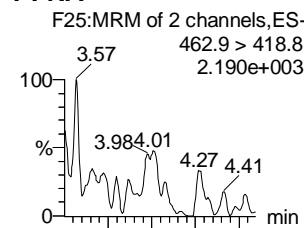
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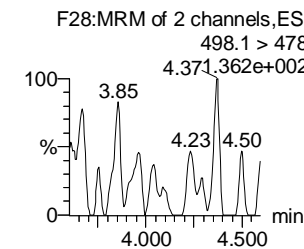
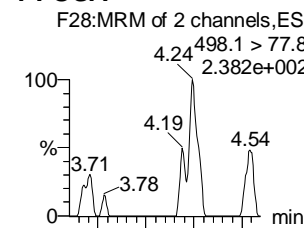
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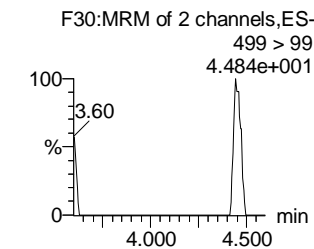
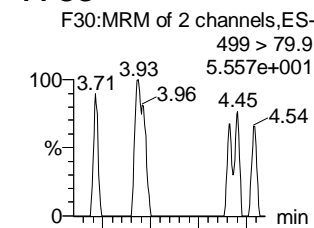
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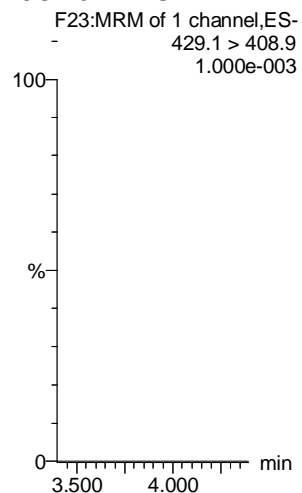
PFOSA



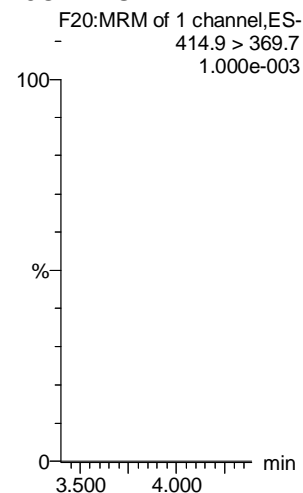
PFOS



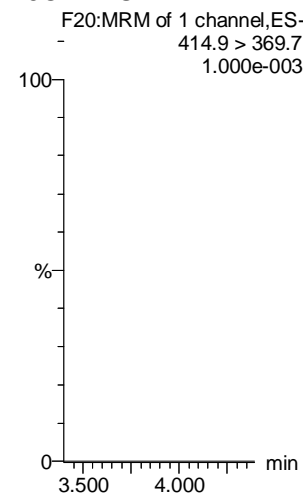
13C2-6:2 FTS



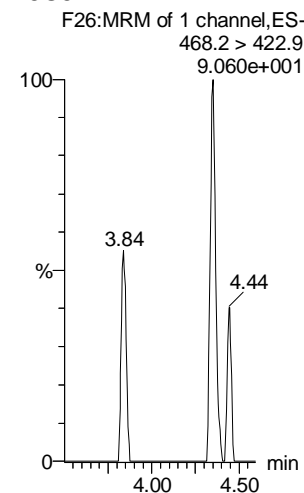
13C2-PFOA



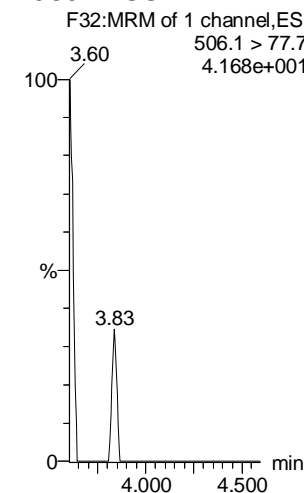
13C2-PFOA



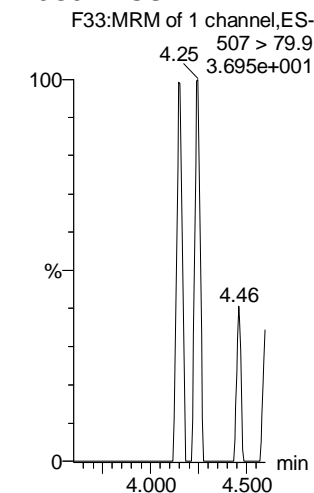
13C5-PFNA



13C8-PFOSA



13C8-PFOS



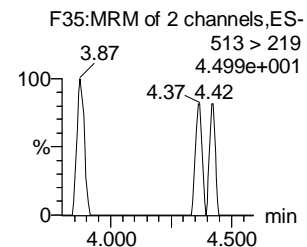
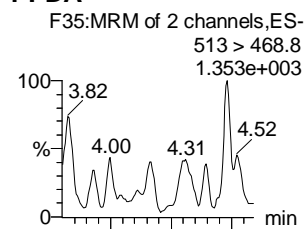
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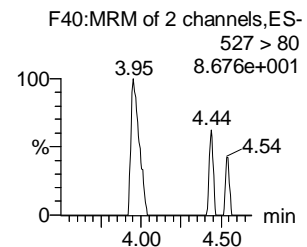
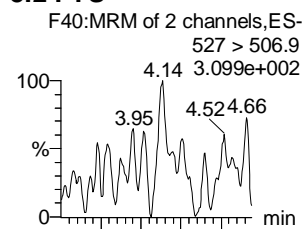
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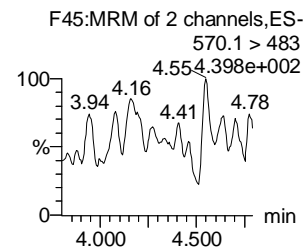
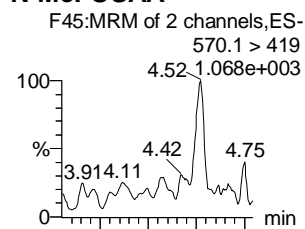
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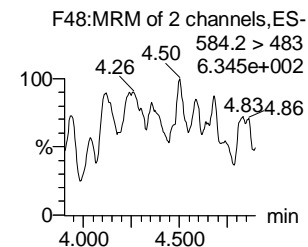
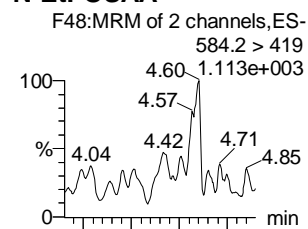
8:2 FTS



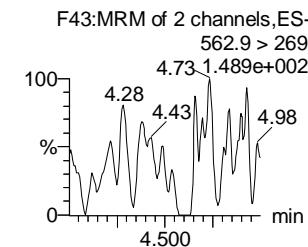
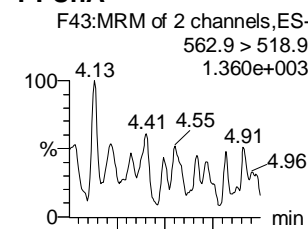
N-MeFOSAA



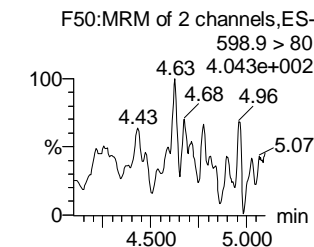
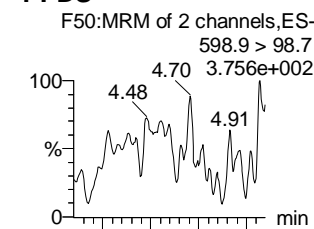
N-EtFOSAA



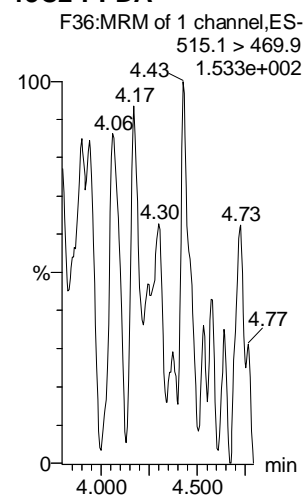
PFUnA



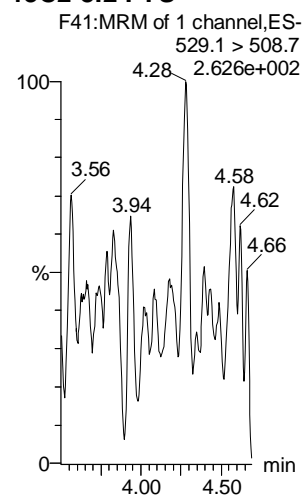
PFDS



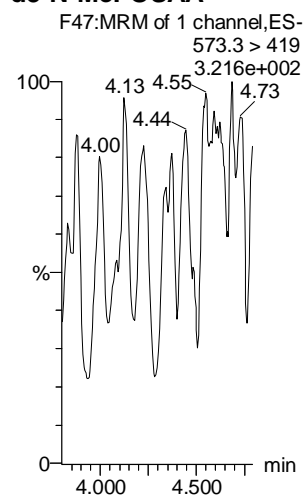
13C2-PFDA



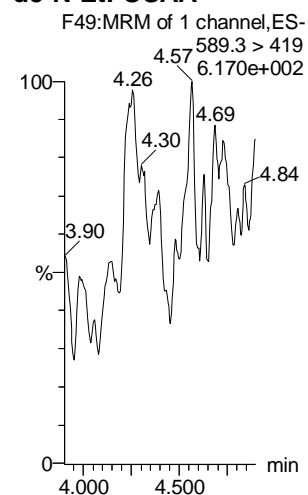
13C2-8:2 FTS



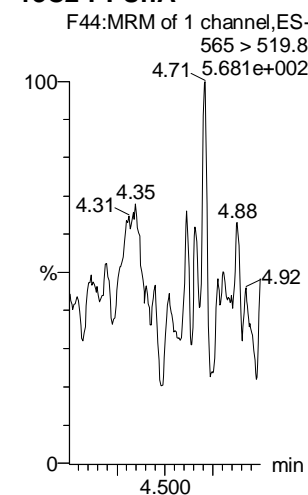
d3-N-MeFOSAA



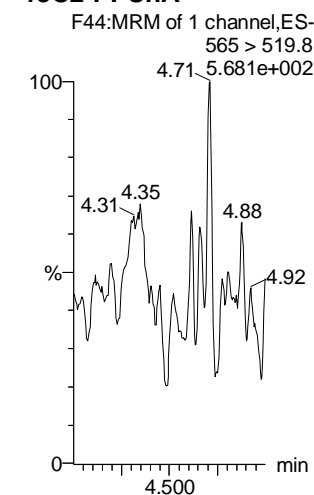
d5-N-EtFOSAA



13C2-PFUnA



13C2-PFUnA



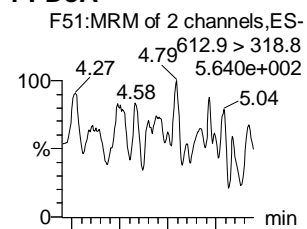
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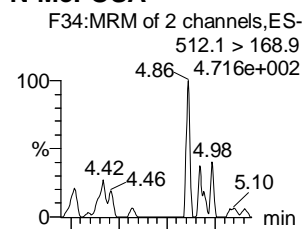
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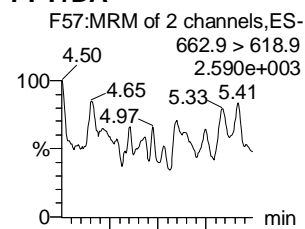
PFDoA



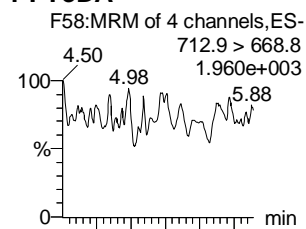
N-MeFOSA



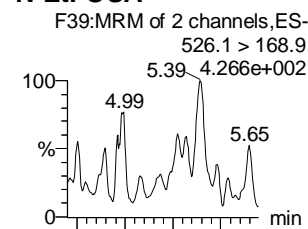
PFTrDA



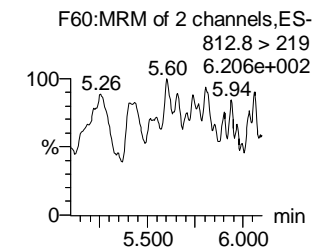
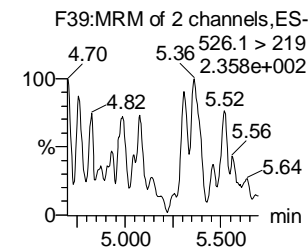
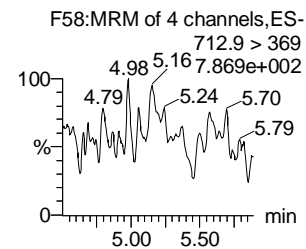
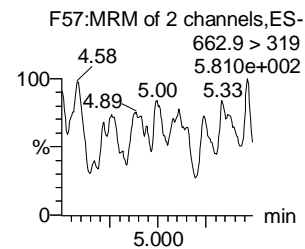
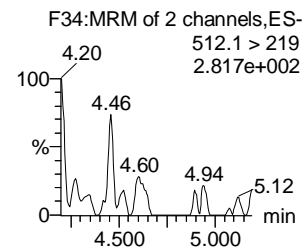
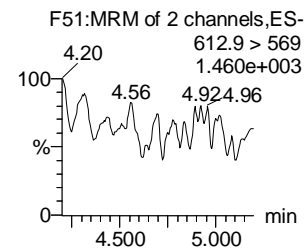
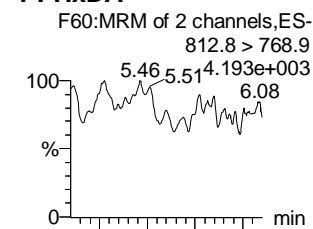
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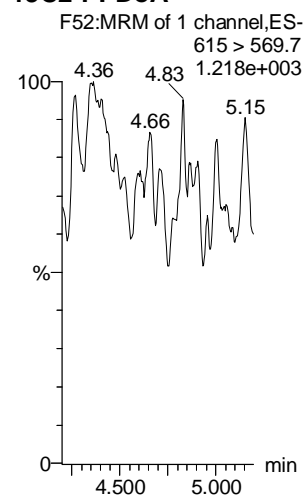
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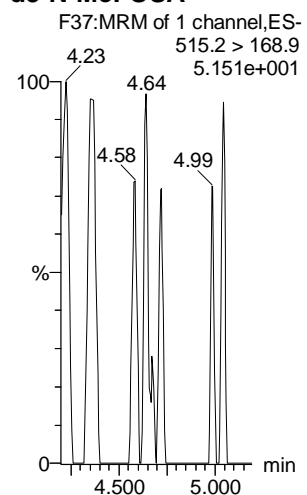
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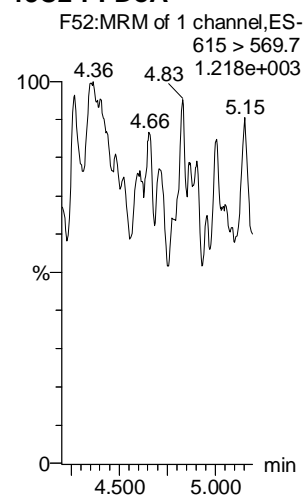
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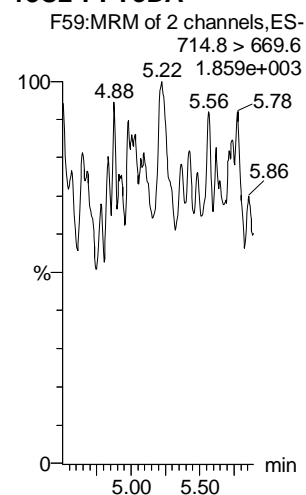
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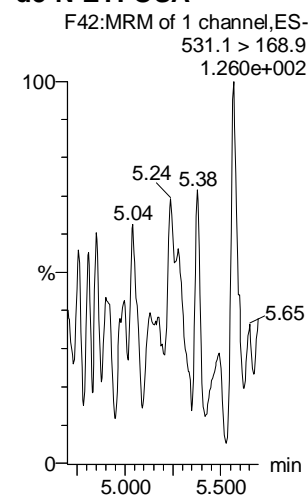
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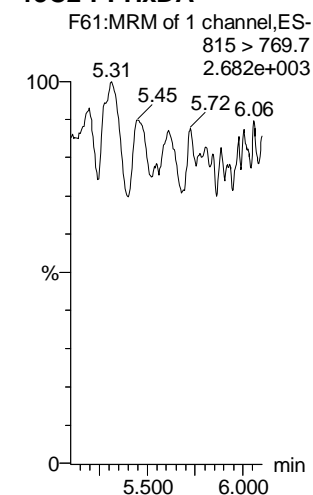
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d5-N-ETFOSA



13C2-PFHxDA



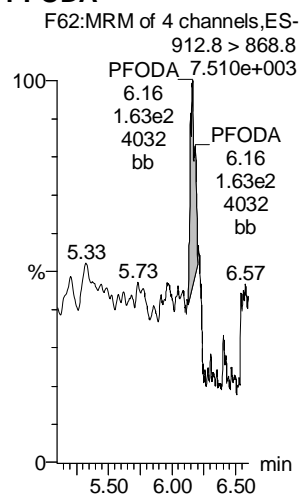
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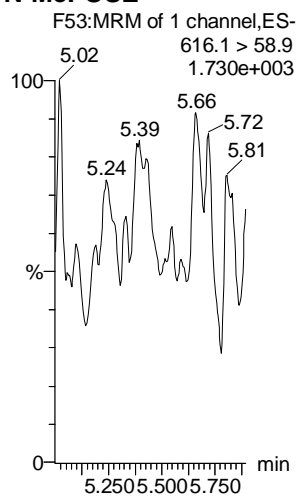
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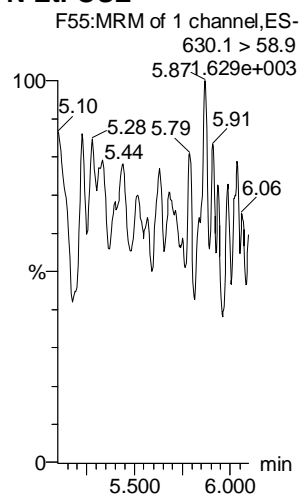
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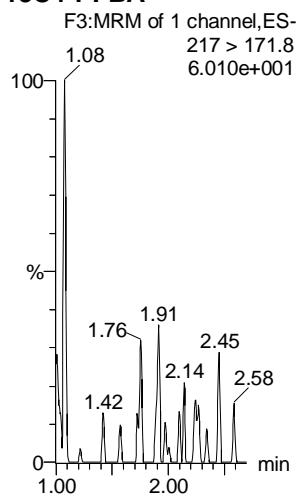
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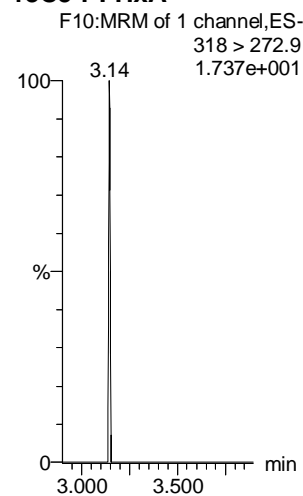
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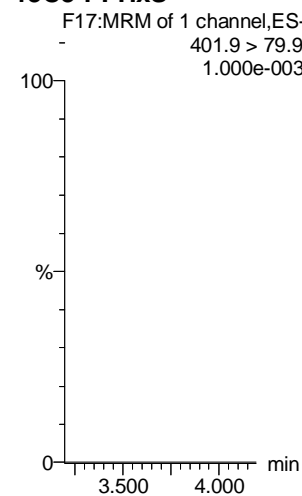
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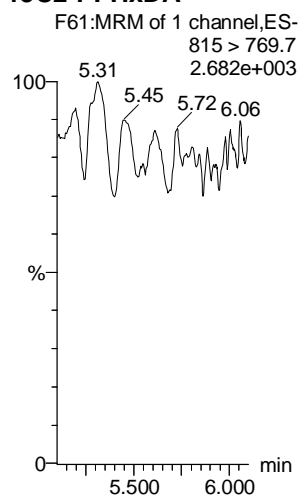
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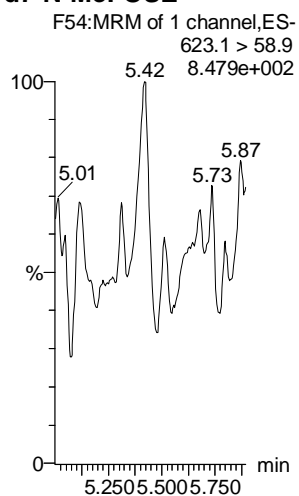
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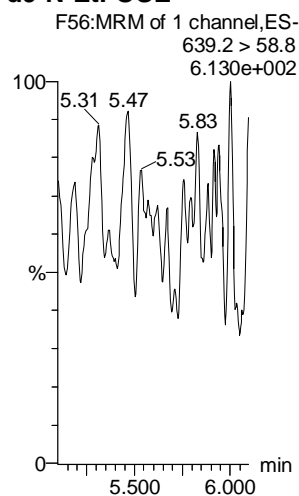
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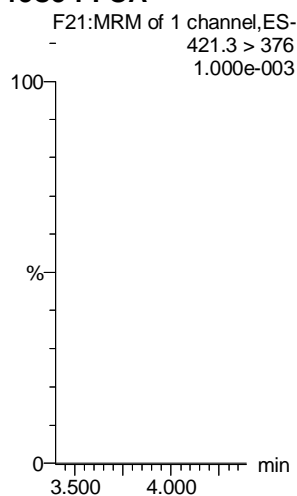
d7-N-MeFOSE



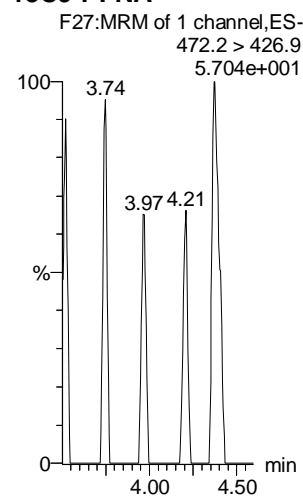
d9-N-EtFOSE



13C8-PFOA



13C9-PFNA



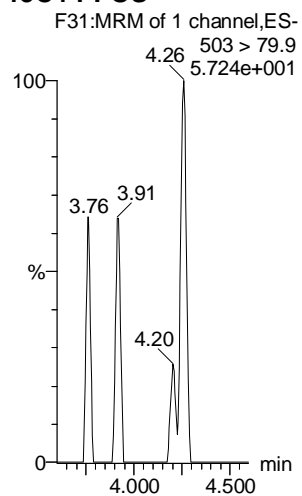
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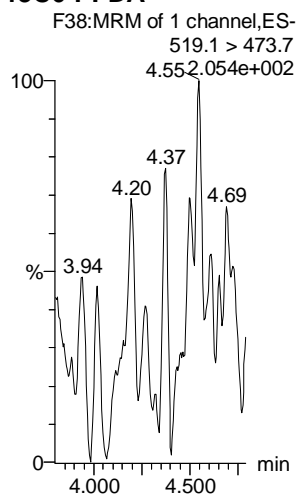
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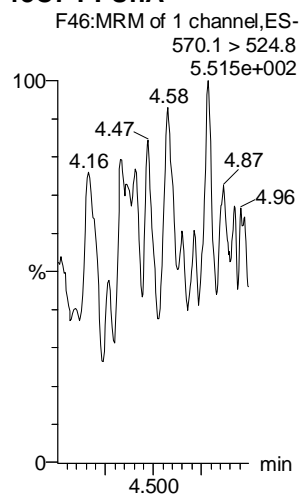
13C4-PFOS



13C6-PFDA



13C7-PFUnA



Analytical Standard Record

Vista Analytical Laboratory

17J1820

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
16G1221	br-PFOSK anion	12-Jul-16	** Vendor **	14-Oct-20	19-Oct-17 08:16 by INJ	0.431
17G1209	FOSA-I	12-Jul-17	** Vendor **	30-Sep-21	13-Jul-17 09:08 by INJ	0.4
17G1312	PFTeDA	13-Jul-17	** Vendor **	30-Sep-21	17-Jul-17 16:23 by INJ	0.4
17G1313	PFTrDA	13-Jul-17	** Vendor **	02-May-22	17-Jul-17 16:22 by INJ	0.4
17G1323	br-PFHxSK	13-Jul-17	** Vendor **	04-Jan-22	17-Jul-17 16:16 by INJ	0.44
17G1325	L-PFDS	13-Jul-17	** Vendor **	17-Feb-22	17-Jul-17 16:11 by INJ	0.415
17G1326	L-PFHpS	13-Jul-17	** Vendor **	18-Oct-21	17-Jul-17 16:08 by INJ	0.42
17G1805	PFDA	18-Jul-17	** Vendor **	31-May-21	18-Jul-17 12:37 by INJ	0.4
17G1806	PFHxA	18-Jul-17	** Vendor **	02-Dec-21	18-Jul-17 12:37 by INJ	0.4
17G1807	MeFOSAA	18-Jul-17	** Vendor **	11-Jan-22	18-Jul-17 12:37 by INJ	0.4
17G1808	EtFOSAA	18-Jul-17	** Vendor **	11-Jan-22	18-Jul-17 12:37 by INJ	0.4
17G1809	PFBA	18-Jul-17	** Vendor **	29-May-22	18-Jul-17 12:37 by INJ	0.4
17G1810	PFODA	18-Jul-17	** Vendor **	29-Apr-21	18-Jul-17 12:37 by INJ	0.4
17G1811	L-PFBS	18-Jul-17	** Vendor **	02-Dec-21	18-Jul-17 12:37 by INJ	0.454
17G1812	8:2FTS	18-Jul-17	** Vendor **	12-Dec-21	18-Jul-17 12:37 by INJ	0.418
17G1813	6:2FTS	18-Jul-17	** Vendor **	20-Apr-22	18-Jul-17 12:36 by INJ	0.422
17H0820	PFDoA	08-Aug-17	** Vendor **	31-May-21	08-Aug-17 11:02 by INJ	0.4
17H0821	PFNA	08-Aug-17	** Vendor **	30-Sep-21	08-Aug-17 11:03 by INJ	0.4
17H0822	PFPeA	08-Aug-17	** Vendor **	14-Jun-22	08-Aug-17 11:05 by INJ	0.4
17H0823	PFOA	08-Aug-17	** Vendor **	17-Feb-22	08-Aug-17 11:06 by INJ	0.4
17H0824	PFUdA	08-Aug-17	** Vendor **	18-Oct-21	08-Aug-17 11:08 by INJ	0.4
17H0825	PFHxDA	08-Aug-17	** Vendor **	25-May-21	08-Aug-17 11:09 by INJ	0.4
17H0826	PFHpA	08-Aug-17	** Vendor **	02-Dec-21	08-Aug-17 11:12 by INJ	0.4
17H0827	N-EtFOSA-M	08-Aug-17	** Vendor **	05-Jul-22	08-Aug-17 11:13 by INJ	2
17H0828	N-MeFOSA-M	08-Aug-17	** Vendor **	05-Jul-22	08-Aug-17 11:15 by INJ	2
17H0829	N-EtFOSE-M	08-Aug-17	** Vendor **	24-Apr-22	08-Aug-17 11:16 by INJ	2
17H0830	N-MeFOSE-M	08-Aug-17	** Vendor **	24-Apr-22	08-Aug-17 11:17 by INJ	2

Description:	PFC NS Stock	Expires:	18-Oct-19
Standard Type:	Analyte Spike	Prepared:	18-Oct-17
Solvent:	MeOH	Prepared By:	Isaac N. Johnson
Final Volume (mls):	20	Department:	LCMS
Vials:	1	Last Edit:	19-Oct-17 08:19 by INJ

PFOS and PFHxS linear and branched components

Analyte	CAS Number	Concentration	Units
L-PFDS		1	ug/mL
6:2 FTS	27619-97-2	1	ug/mL
L-PFTeDA		1	ug/mL
L-PFPeA		1	ug/mL
L-PFOSA		1	ug/mL
L-PFOS		0.789	ug/mL
L-PFODA		1	ug/mL
L-PFOA		1	ug/mL
L-PFNA		1	ug/mL

Analytical Standard Record

Vista Analytical Laboratory

17J1820

Description:	PFC NS Stock	Expires:	18-Oct-19
Standard Type:	Analyte Spike	Prepared:	18-Oct-17
Solvent:	MeOH	Prepared By:	Isaac N. Johnson
Final Volume (mls):	20	Department:	LCMS
Vials:	1	Last Edit:	19-Oct-17 08:19 by INJ

PFOS and PFHxS linear and branched components

Analyte	CAS Number	Concentration	Units
L-PFHxS		0.812	ug/mL
L-PFHxDA		1	ug/mL
L-PFHxA		1	ug/mL
L-PFUnA		1	ug/mL
L-PFHpA		1	ug/mL
MeFOSA	31506-32-8	5	ug/mL
L-PFDoA		1	ug/mL
L-PFDA		1	ug/mL
L-PFBS		1	ug/mL
L-PFBA		1	ug/mL
L-8:2FTS		1	ug/mL
L-6:2 FTS		1	ug/mL
EtFOSE	1691-99-2	5	ug/mL
EtFOSAA	2991-50-6	1	ug/mL
EtFOSA	4151-50-2	5	ug/mL
Br-PFHxS	3871-99-6	0.189	ug/mL
8:2 FTS	39108-34-4	1	ug/mL
L-PFHpS		1	ug/mL
PFHxS	355-46-4	1	ug/mL
Total PFHxS		1	ug/mL
Total PFHpS		1	ug/mL
Total PFDS		1	ug/mL
Total 6:2 FTS		1	ug/mL
PFUnA	2058-94-8	1	ug/mL
PFTTrDA	72629-94-8	1	ug/mL
PFTeDA	376-06-7	1	ug/mL
PFPeA	2706-90-3	1	ug/mL
PFOSA	754-91-6	1	ug/mL
PFOS	1763-23-1	1	ug/mL
PFODA	16517-11-6	1	ug/mL
L-PFTTrDA		1	ug/mL
PFNA	375-95-1	1	ug/mL
Total PFUnA		1	ug/mL
PFHxDA	67905-19-5	1	ug/mL

Analytical Standard Record

Vista Analytical Laboratory

17J1820

Description:	PFC NS Stock	Expires:	18-Oct-19
Standard Type:	Analyte Spike	Prepared:	18-Oct-17
Solvent:	MeOH	Prepared By:	Isaac N. Johnson
Final Volume (mls):	20	Department:	LCMS
Vials:	1	Last Edit:	19-Oct-17 08:19 by INJ

PFOS and PFHxS linear and branched components

Analyte	CAS Number	Concentration	Units
PFHxA	307-24-4	1	ug/mL
PFHpS	375-92-8	1	ug/mL
PFHpA	375-85-9	1	ug/mL
PFDS	335-77-3	1	ug/mL
PFDoA	307-55-1	1	ug/mL
PFDA	335-76-2	1	ug/mL
PFBS	375-73-5	1	ug/mL
PFBA	375-22-4	1	ug/mL
MeFOSE	24448-09-7	5	ug/mL
MeFOSAA	2355-31-9	1	ug/mL
PFOA	335-67-1	1	ug/mL

1661221



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

br-PFOSK

**Potassium Perfluorooctanesulfonate
Solution/Mixture of Linear and
Branched Isomers**

PRODUCT CODE: br-PFOSK
LOT NUMBER: brPFOSK1015
CONCENTRATION: 50 ± 2.5 µg/ml (total potassium salt)
46.4 ± 2.3 µg/ml (total PFOS anion)
SOLVENT(S): Methanol
DATE PREPARED: (mm/dd/yyyy) 10/13/2015
LAST TESTED: (mm/dd/yyyy) 10/14/2015
EXPIRY DATE: (mm/dd/yyyy) 10/14/2020
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

The chemical purity has been determined to be ≥98% perfluorooctanesulfonate linear and branched isomers. The full name, structure and percent composition for each of the isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by ¹⁹F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- A 5-point calibration curve was generated using linear PFOS (potassium salt) and mass-labelled PFOS as an internal standard to enable quantitation of br-PFOSK using isotopic dilution.
- CAS#: 2795-39-3 (for linear isomer; potassium salt).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

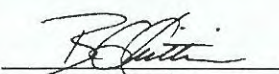


For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: br-PFOSK; Isomeric Components and Percent Composition (by ¹⁹F-NMR)*

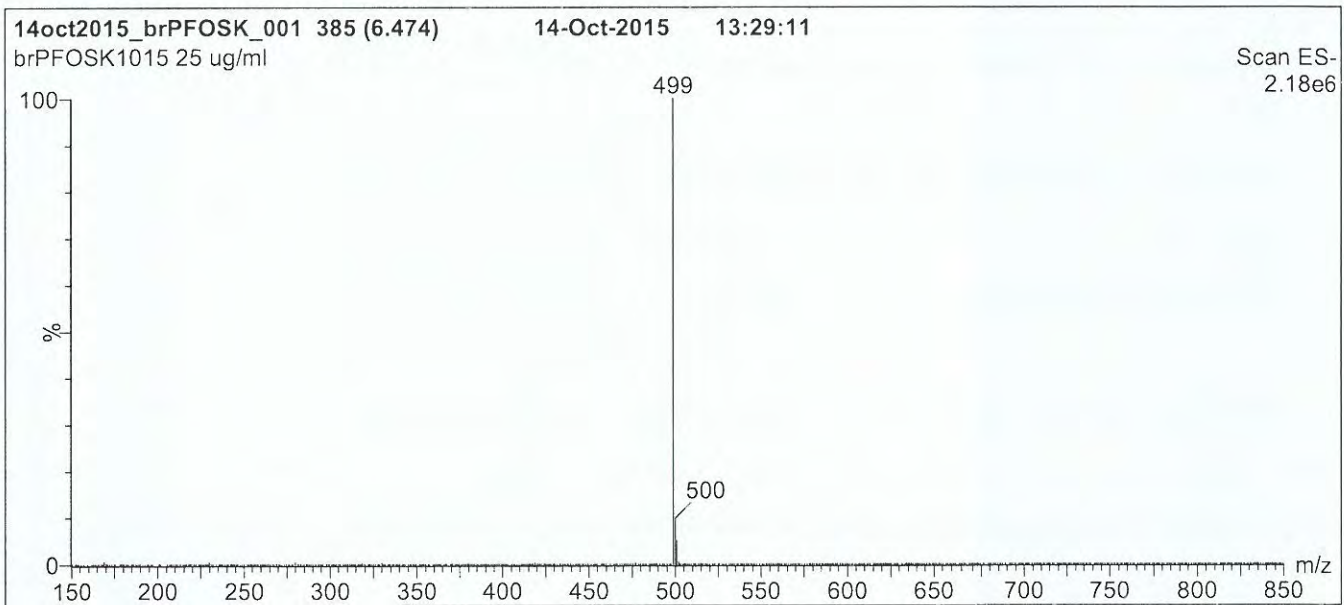
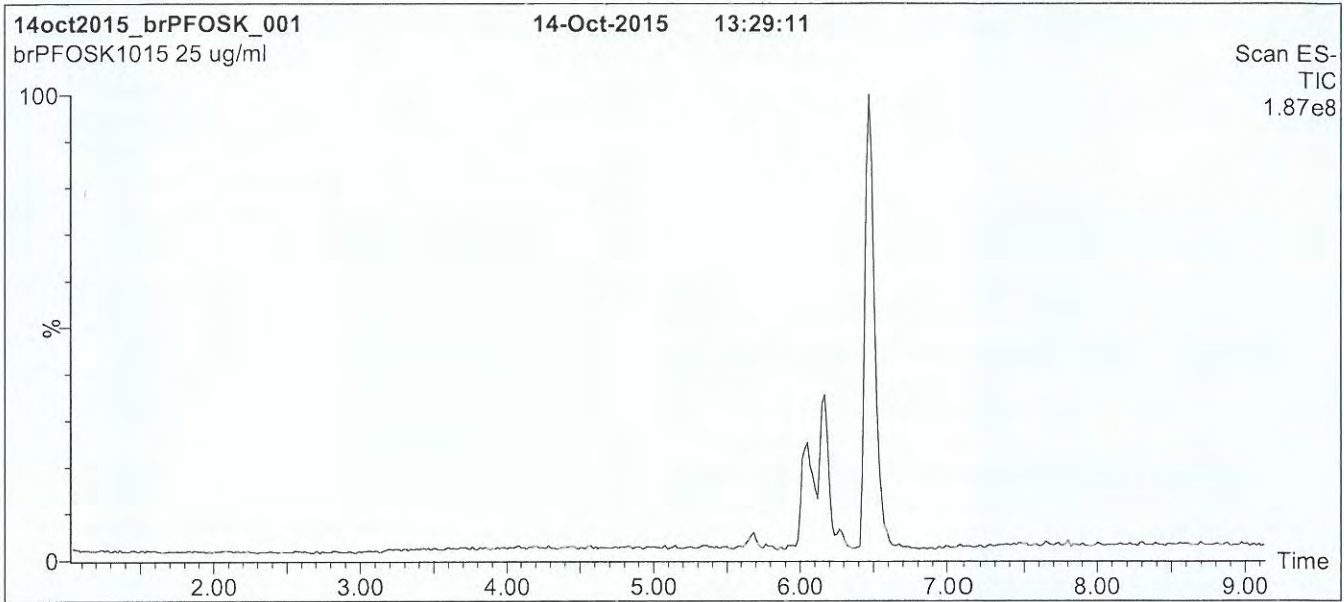
Isomer	Name	Structure	Percent Composition by ¹⁹ F-NMR
1	Potassium perfluoro-1-octanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ K ⁺	78.8
2	Potassium 1-trifluoromethylperfluoroheptanesulfonate**	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₃ SO ₃ K ⁺	1.2
3	Potassium 2-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₃ SO ₃ K ⁺	0.6
4	Potassium 3-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₃ SO ₃ K ⁺	1.9
5	Potassium 4-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₃ SO ₃ K ⁺	2.2
6	Potassium 5-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₃ SO ₃ K ⁺	4.5
7	Potassium 6-trifluoromethylperfluoroheptanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ CF ₃ SO ₃ K ⁺	10.0
8	Potassium 5,5-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ -C(CF ₃) ₂ -CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ K ⁺	0.2
9	Potassium 4,4-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ CF ₂ -C(CF ₃) ₂ -CF ₂ CF ₂ CF ₂ SO ₃ K ⁺	0.03
10	Potassium 4,5-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ -CF(CF ₃)-CF(CF ₃)-CF ₂ CF ₂ CF ₂ SO ₃ K ⁺	0.4
11	Potassium 3,5-di(trifluoromethyl)perfluorohexanesulfonate	CF ₃ -CF(CF ₃)-CF ₂ -CF(CF ₃)-CF ₂ CF ₂ SO ₃ K ⁺	0.07

* Percent of total perfluorooctanesulfonate isomers only. Isomers are labelled in Figure 2.
 ** Systematic Name: Potassium perfluorooctane-2-sulfonate.

Certified By: 
 B.G. Chittim

Date: 10/15/2015
(mm/dd/yyyy)

Figure 1: br-PFOSK; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% (80:20 MeOH:ACN) / 55% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 12 min and hold for 2 min.
Return to initial conditions over 0.5 min.
Time: 16 min

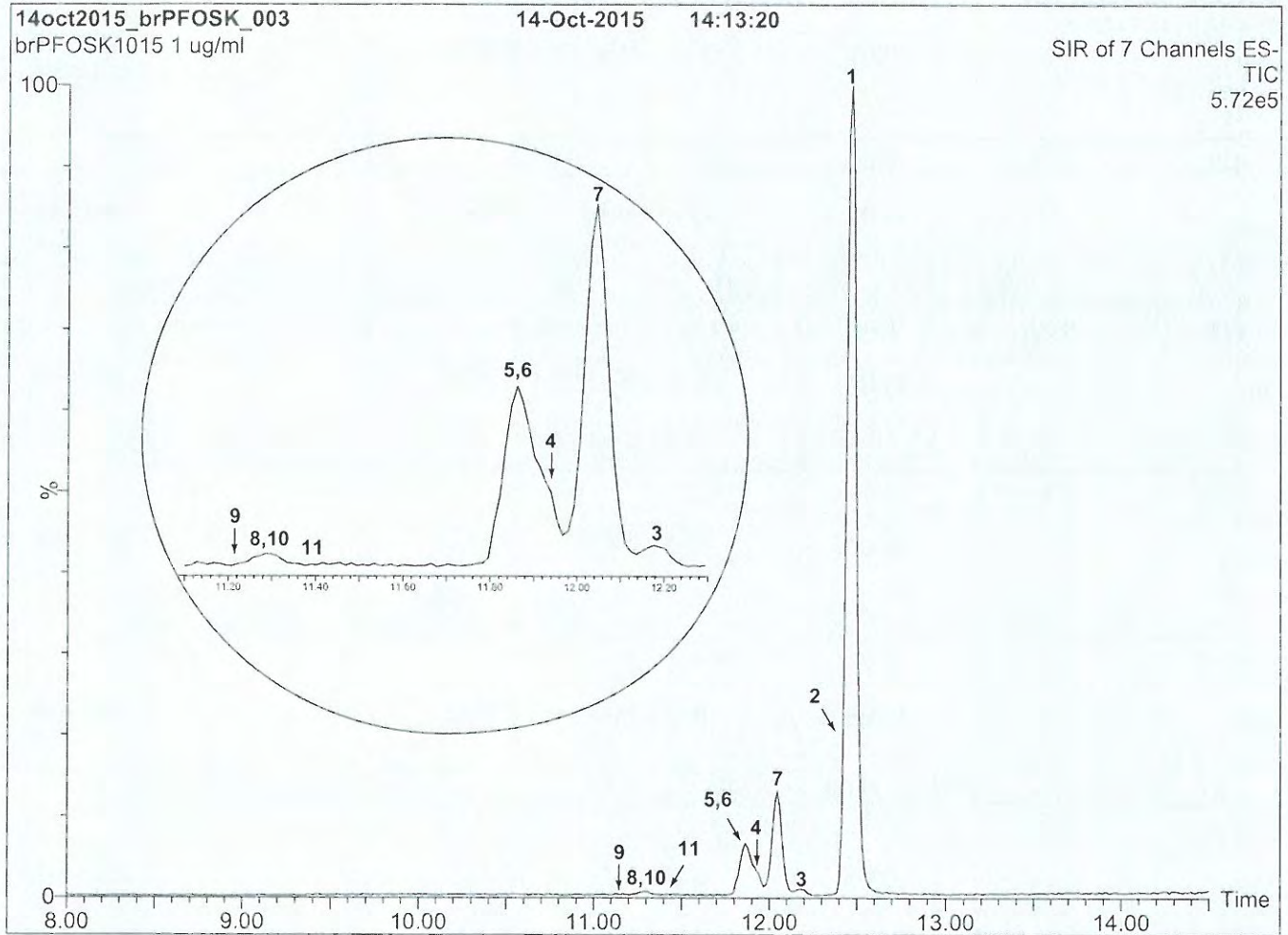
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

Figure 2: br-PFOSK; LC/MS Data (SIR)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

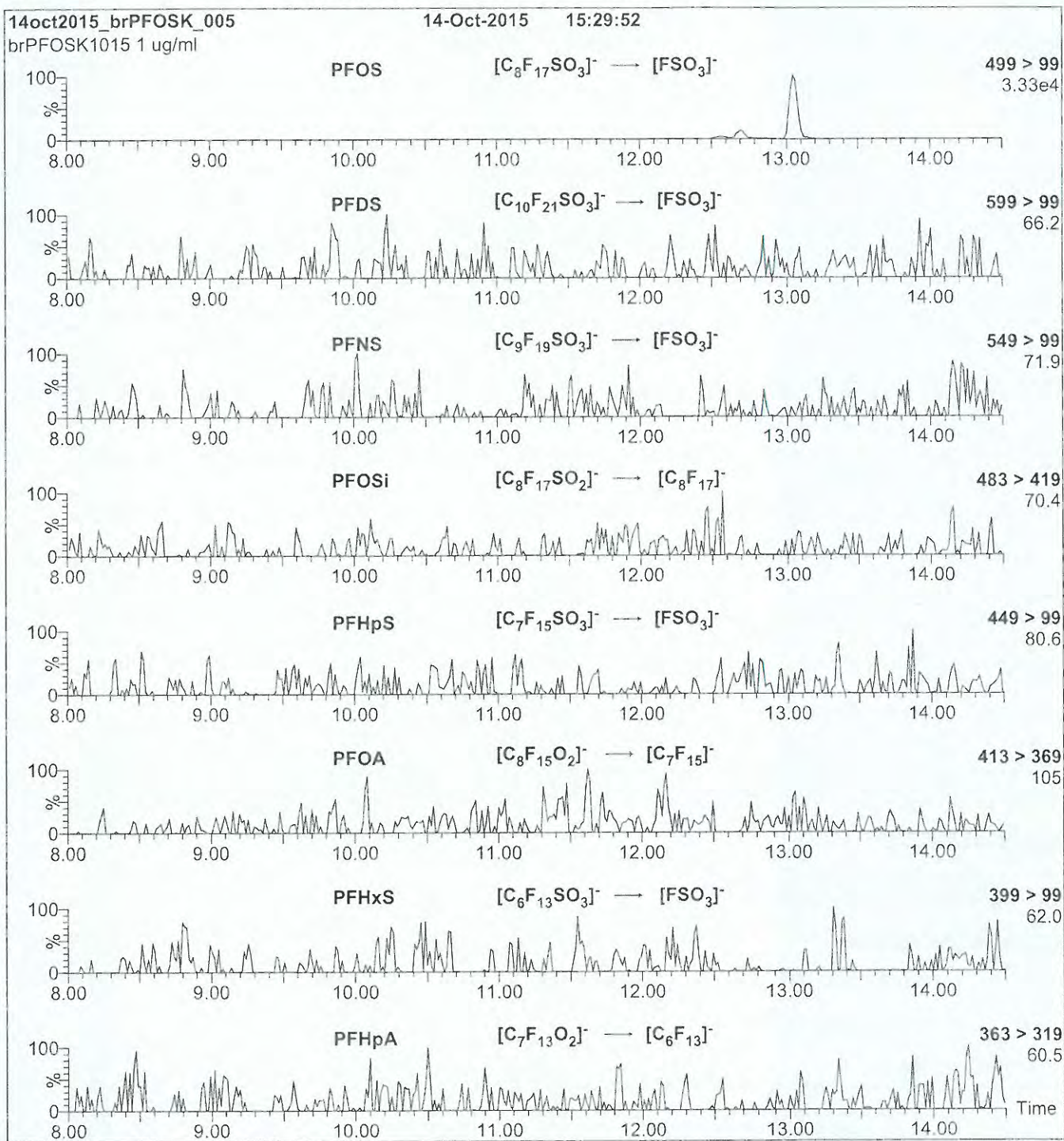
Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP₁₈ (1.7 μ m, 2.1 x 100 mm)
Injection: 1.0 μ g/ml of br-PFOSK
Mobile Phase: Gradient
45% (80:20 MeOH:ACN) / 55% H₂O (both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 15 min and hold for 3 min.
Return to initial conditions over 1 min.
Time: 20 min
Flow: 300 μ l/min

MS Conditions:

SIR (ES)
Source = 110 °C
Desolvation = 325 °C
Cone Voltage = 60V

Figure 3: br-PFOSK; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: On-column

Mobile phase: Same as Figure 2

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.06e-3

Collision Energy (eV) = 11-50 (variable)

17G1209


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION
PRODUCT CODE:

FOSA-I ✓

LOT NUMBER:

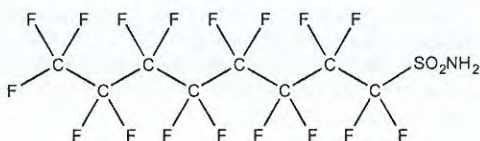
FOSA0916I ✓

COMPOUND:

Perfluoro-1-octanesulfonamide

STRUCTURE:**CAS #:**

754-91-6

**MOLECULAR FORMULA:** $C_8H_2F_{17}NO_2S$ **MOLECULAR WEIGHT:**

499.14

CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):**

Isopropanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

09/30/2016

EXPIRY DATE: (mm/dd/yyyy)

09/30/2021

RECOMMENDED STORAGE:

Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim

Date: 10/07/2016

(mm/dd/yyyy)

 Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17G1209

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

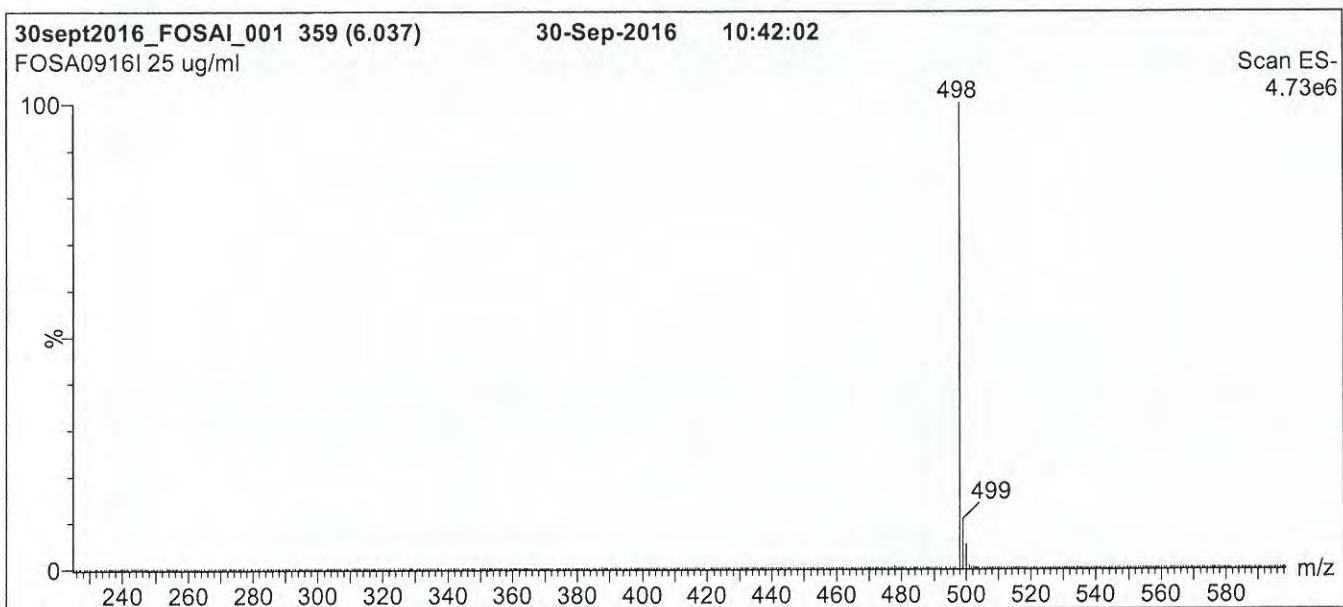
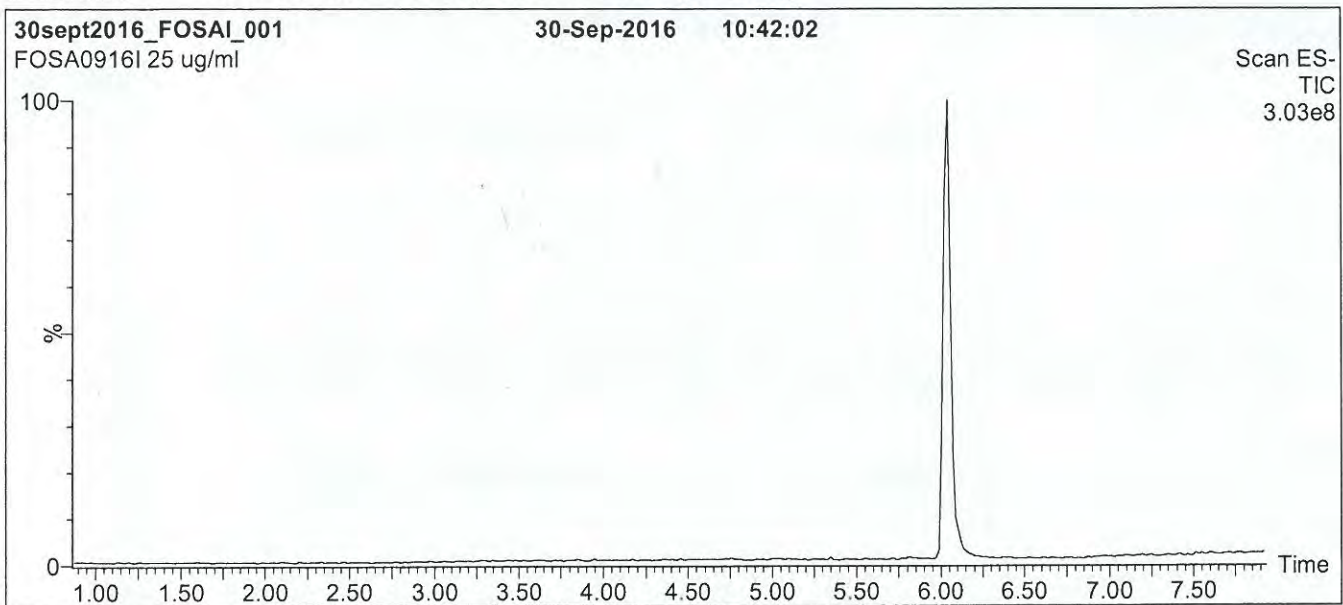
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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1761209

Figure 1: FOSA-I; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

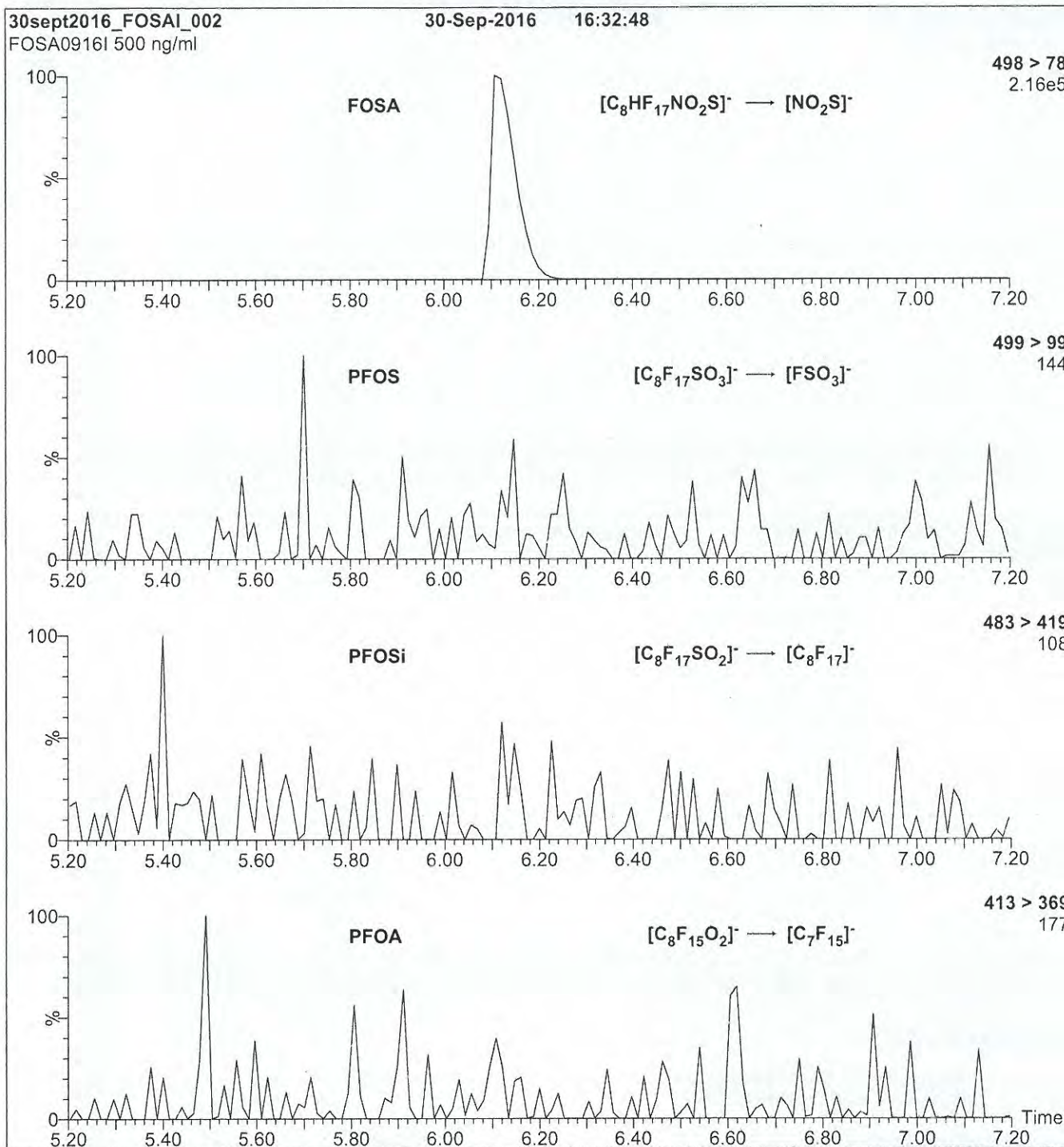
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1209

Figure 2: FOSA-I; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 μ l (500 ng/ml FOSA-I)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.20e-3
 Collision Energy (eV) = 30

17G1312



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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

✓
PFTeDA

LOT NUMBER:

✓
PFTeDA0916

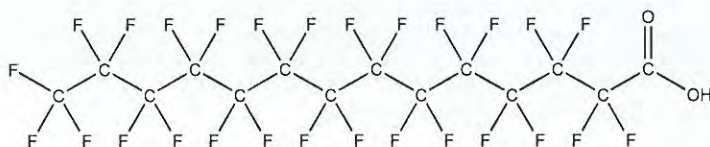
COMPOUND:

Perfluoro-n-tetradecanoic acid

STRUCTURE:

CAS #:

376-06-7



MOLECULAR FORMULA:

$C_{14}HF_{27}O_2$

MOLECULAR WEIGHT:

714.11

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

SOLVENT(S):

Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

09/30/2016

EXPIRY DATE: (mm/dd/yyyy)

09/30/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.2% of PFDa ($C_{12}HF_{23}O_2$) and ~ 0.2% of PFPeDA ($C_{15}HF_{29}O_2$).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 10/05/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17G1312

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

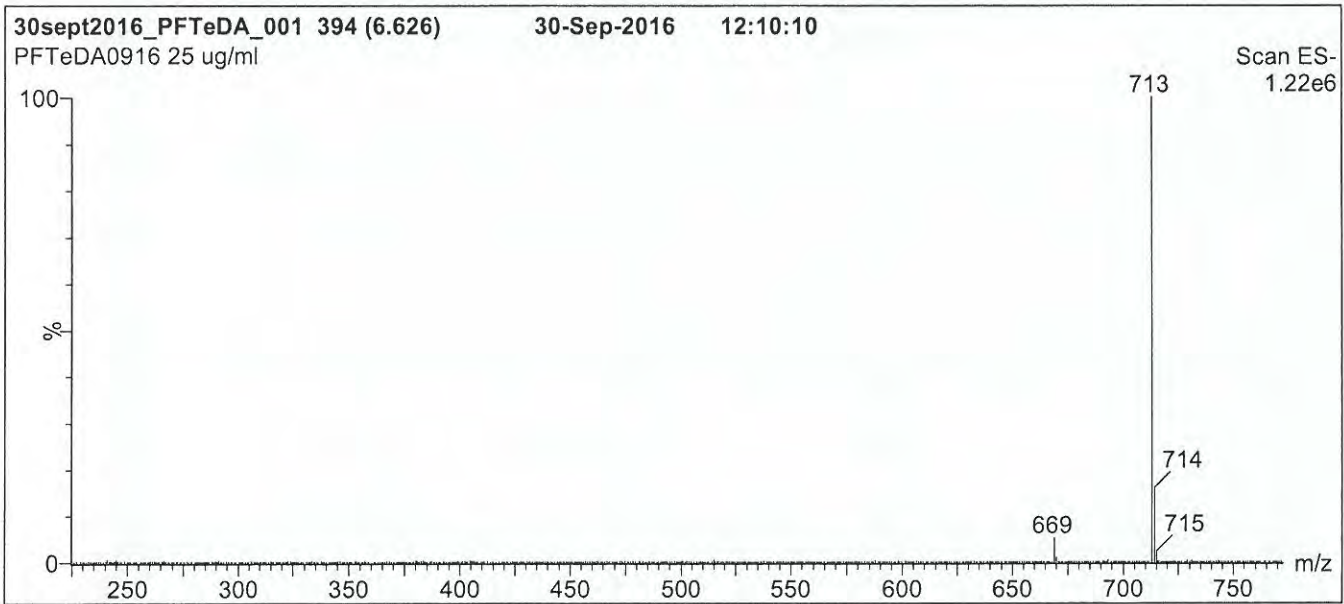
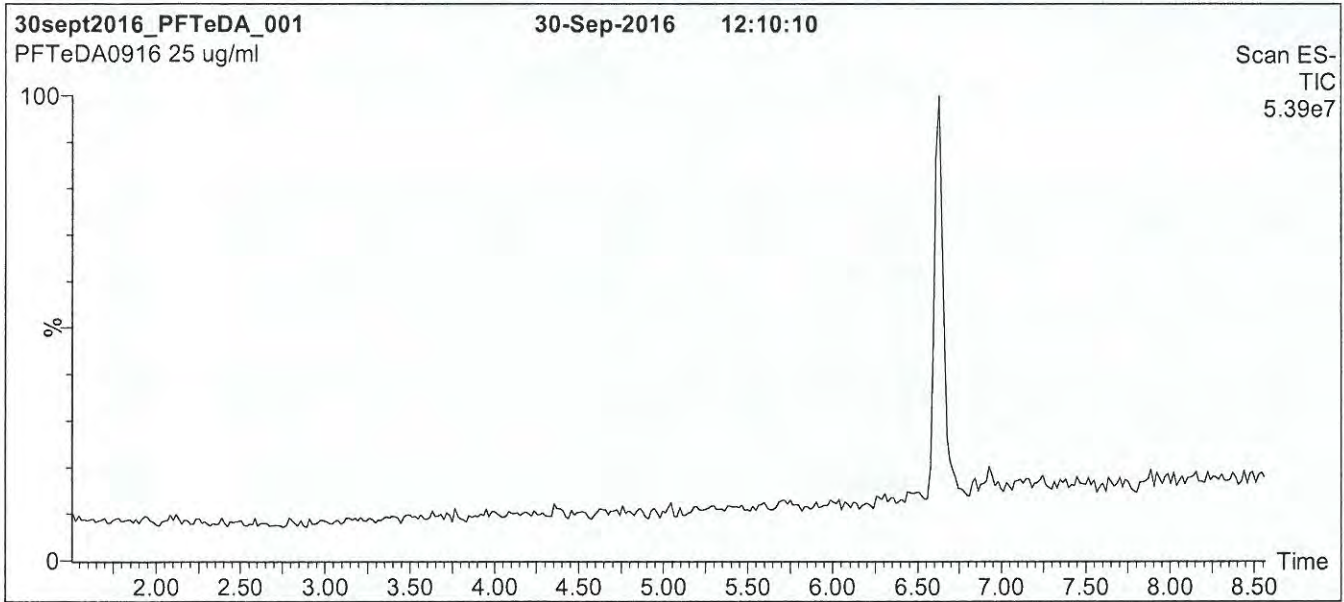
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1312

Figure 1: PFTeDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 65% (80:20 MeOH:ACN) / 35% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

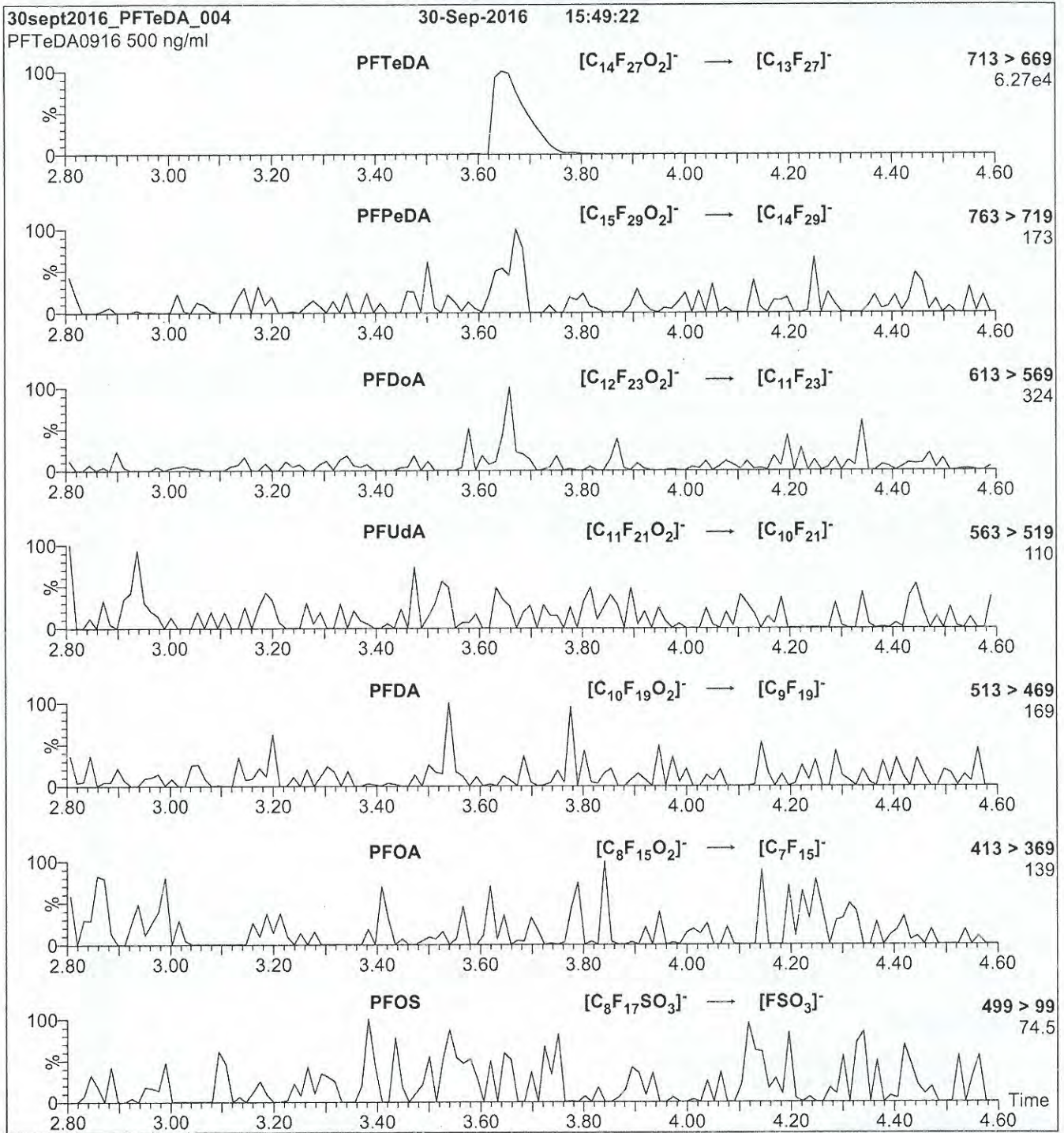
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17G1312

Figure 2: PFTeDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFTeDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

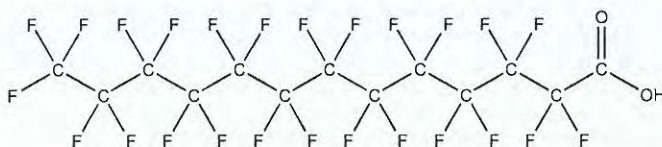
Collision Gas (mbar) = 3.20e-3
Collision Energy (eV) = 14

17G1313


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 CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: PFTTrDA ✓
COMPOUND: Perfluoro-n-tridecanoic acid
LOT NUMBER: PFTTrDA0517 ✓
STRUCTURE:
CAS #: 72629-94-8



MOLECULAR FORMULA: $C_{13}HF_{25}O_2$
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/02/2017
EXPIRY DATE: (mm/dd/yyyy) 05/02/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

MOLECULAR WEIGHT: 664.11
SOLVENT(S): Methanol
 Water (<1%)

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.1% of PFUdA ($C_{11}HF_{21}O_2$), ~ 0.4% of PFDaA ($C_{12}HF_{23}O_2$), and ~ 0.1% of PFTeDA ($C_{14}HF_{27}O_2$).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim, General Manager

 Date: 05/04/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17G1313

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

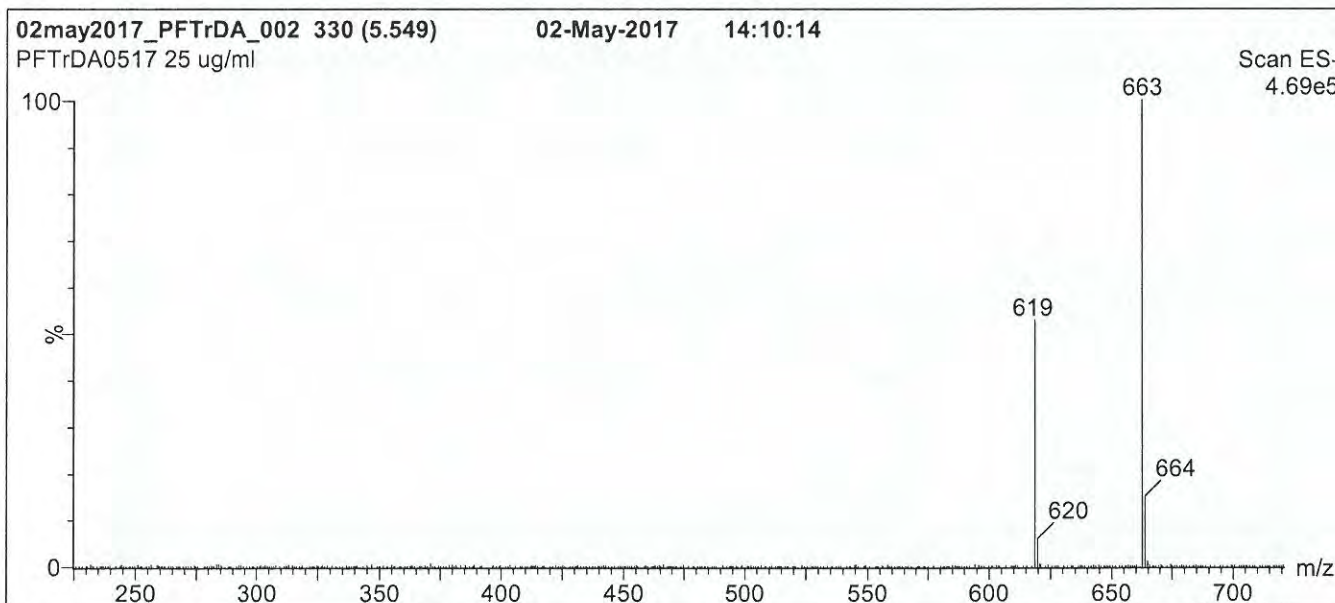
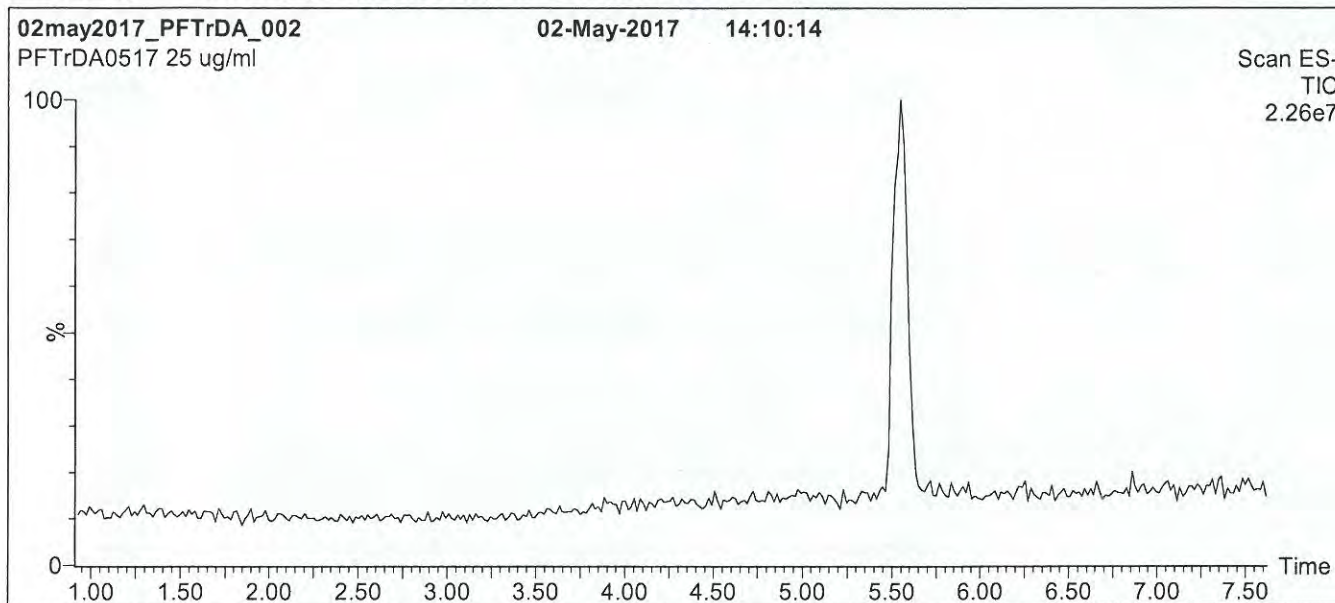
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1313

Figure 1: PFTrDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

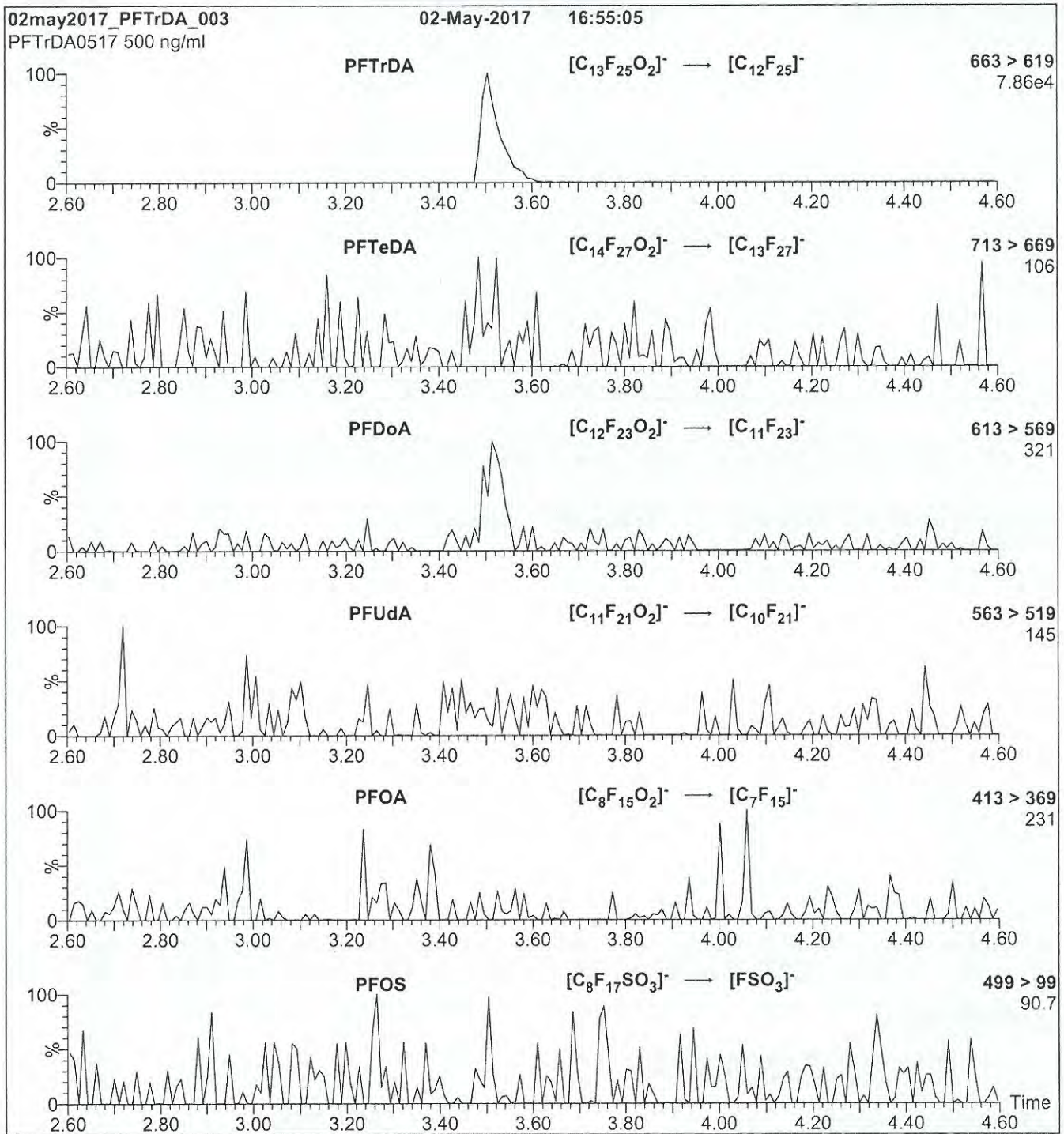
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 22.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 650

17 G1313

Figure 2: PFTrDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFTrDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.17e-3
Collision Energy (eV) = 15

17G 13 23



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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

br-PFHxSK

**Potassium Perfluorohexanesulfonate
Solution/Mixture of Linear and
Branched Isomers**

PRODUCT CODE: br-PFHxSK ✓
LOT NUMBER: brPFHxSK0117 ✓
CONCENTRATION: 50.0 ± 2.5 µg/ml (total potassium salt)
45.5 ± 2.3 µg/ml (total PFHxS anion)
SOLVENT(S): Methanol
DATE PREPARED: (mm/dd/yyyy) 01/03/2017
LAST TESTED: (mm/dd/yyyy) 01/04/2017
EXPIRY DATE: (mm/dd/yyyy) 01/04/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DESCRIPTION:

The chemical purity has been determined to be ≥98% perfluorohexanesulfonate linear and branched isomers. The full name, structure and percent composition for each of the identified isomeric components are given in Table A.

DOCUMENTATION/ DATA ATTACHED:

Table A: Isomeric Components and Percent Composition by ¹⁹F-NMR
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS Data (SIR)
Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.5% of perfluoro-1-pentanesulfonate and ~ 0.2% of perfluoro-1-octanesulfonate.
- CAS#: 3871-99-6 (for linear isomer; potassium salt).

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17G1323

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

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UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1323

Table A: br-PFHxSK; Isomeric Components and Percent Composition (by ¹⁹F-NMR)*

Isomer	Name	Structure	Percent Composition by ¹⁹ F-NMR
1	Potassium perfluoro-1-hexanesulfonate	CF ₃ CF ₂ CF ₂ CF ₂ CF ₂ CF ₂ SO ₃ ⁻ K ⁺	81.1
2	Potassium 1-trifluoromethylperfluoropentanesulfonate**	CF ₃ CF ₂ CF ₂ CF ₂ CF(SO ₃ ⁻)K ⁺ CF ₃	2.9
3	Potassium 2-trifluoromethylperfluoropentanesulfonate	CF ₃ CF ₂ CF ₂ CF(CF ₃)SO ₃ ⁻ K ⁺ CF ₃	1.4
4	Potassium 3-trifluoromethylperfluoropentanesulfonate	CF ₃ CF ₂ CF(CF ₃)CF ₂ SO ₃ ⁻ K ⁺ CF ₃	5.0
5	Potassium 4-trifluoromethylperfluoropentanesulfonate	CF ₃ CF(CF ₃)CF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	8.9
6	Potassium 3,3-di(trifluoromethyl)perfluorobutanesulfonate	CF ₃ CF ₃ CCF ₂ CF ₂ SO ₃ ⁻ K ⁺ CF ₃	0.2
7	Other Unidentified Isomers		0.5

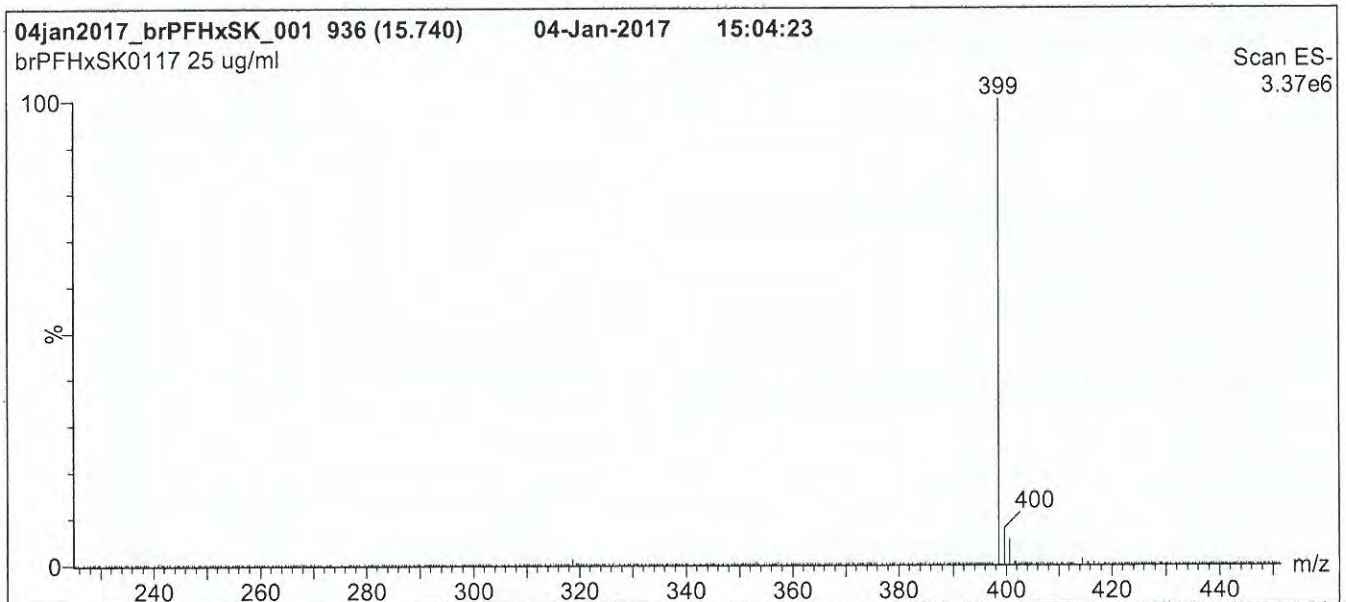
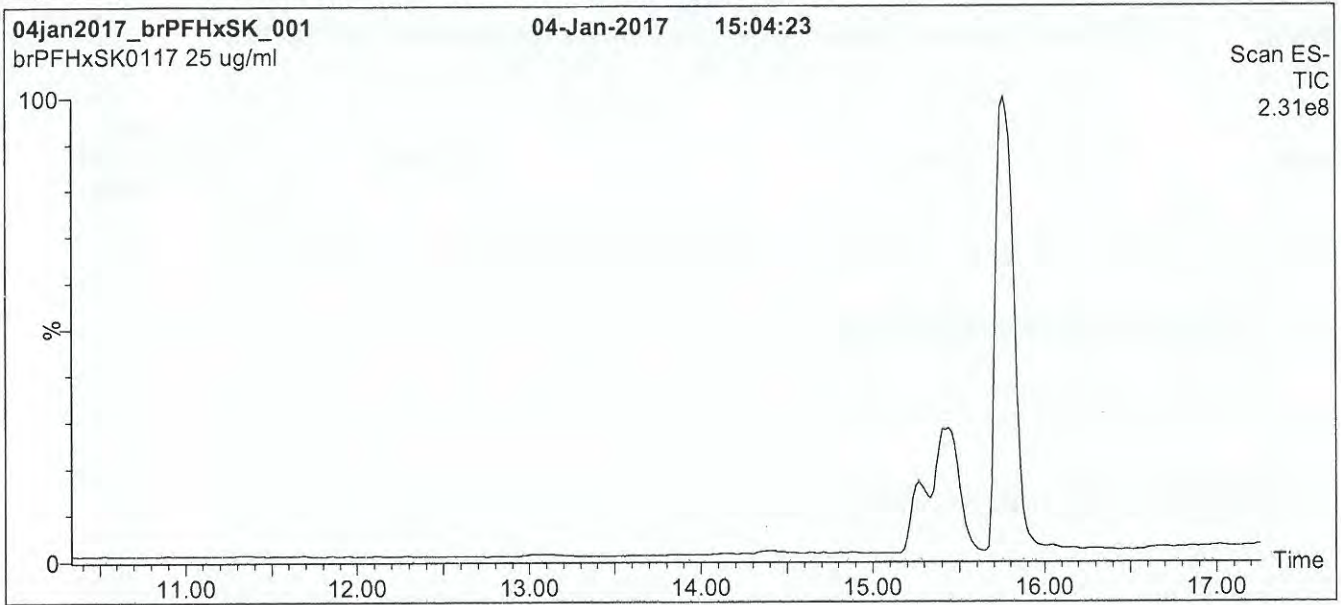
* Percent of total perfluorohexanesulfonate isomers only.
 ** Systematic Name: Potassium perfluorohexane-2-sulfonate.

Certified By:


 B.G. Chittim
Date: 01/20/2017
(mm/dd/yyyy)

17G1323

Figure 1: br-PFHxSK; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 20% (80:20 MeOH:ACN) / 80% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 50% organic over 14 min. Ramp to
90% organic over 3 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 20 min

Flow: 300 μ l/min

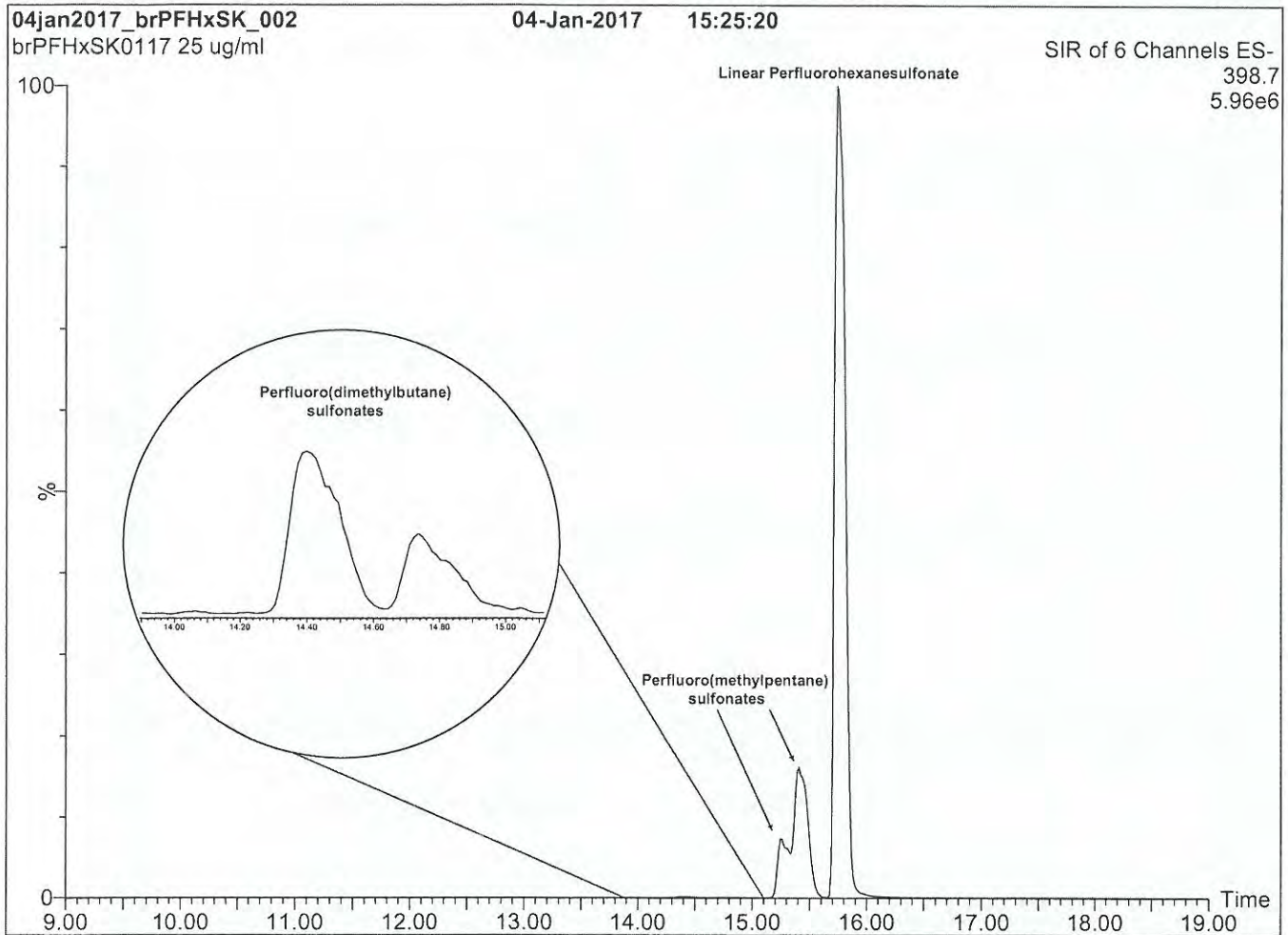
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 50.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17G1323

Figure 2: br-PFHxSK; LC/MS Data (SIR)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 20% (80:20 MeOH:ACN) / 80% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 50% organic over 14 min. Ramp to
90% organic over 3 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 20 min

Flow: 300 μ l/min

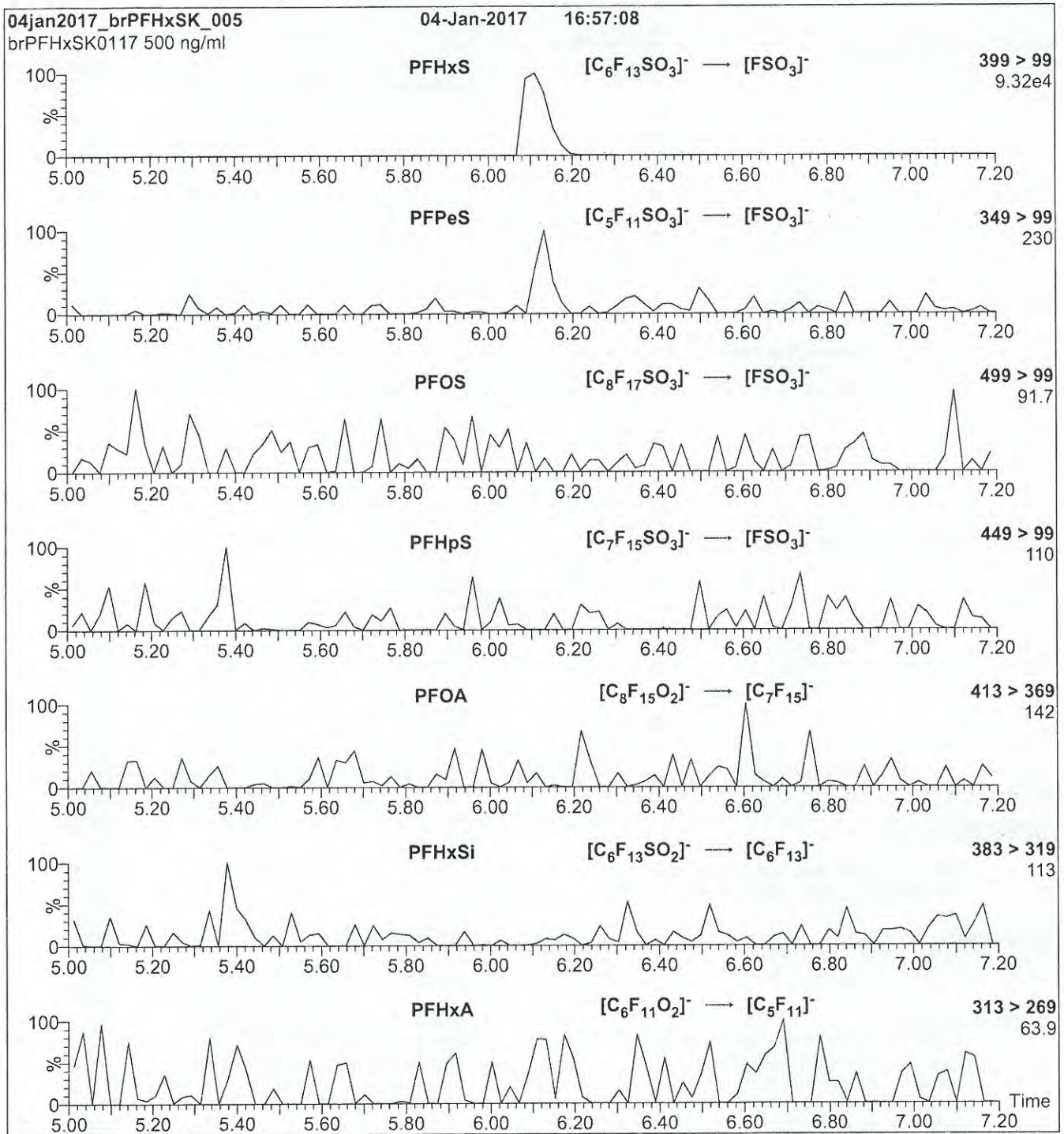
MS Parameters

Experiment: SIR (6 channels)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = variable (15-62)
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17G1323

Figure 3: br-PFHxSK; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: Direct loop injection
10 μ l (500 ng/ml br-PFHxSK)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 30

17G1325



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

L-PFDS

LOT NUMBER:

LPFDS0217

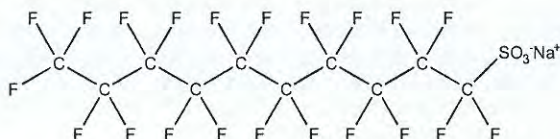
COMPOUND:

Sodium perfluoro-1-decanesulfonate

STRUCTURE:

CAS #:

2806-15-7



MOLECULAR FORMULA:

C₁₀F₂₁SO₃Na

MOLECULAR WEIGHT:

622.13

CONCENTRATION:

50.0 ± 2.5 µg/ml (Na salt)
48.2 ± 2.4 µg/ml (PFDS anion)

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

02/17/2017

EXPIRY DATE: (mm/dd/yyyy)

02/17/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.9% of sodium perfluoro-1-dodecanesulfonate (L-PFDoS).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 02/22/2017

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17G1325

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

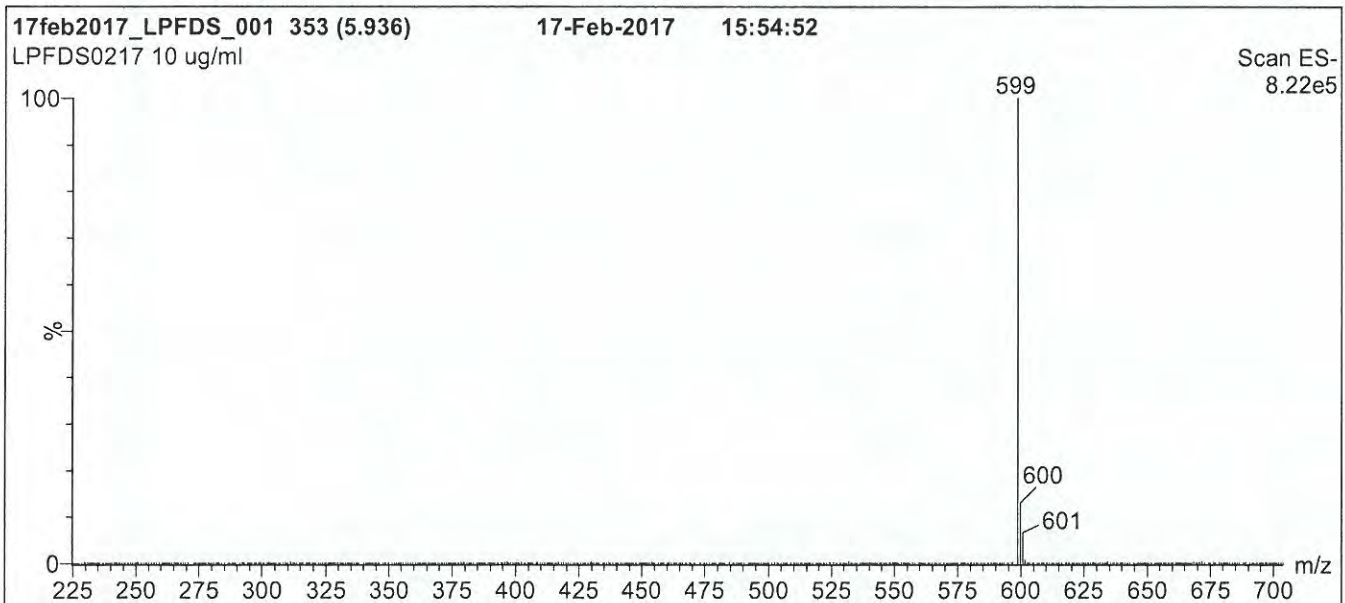
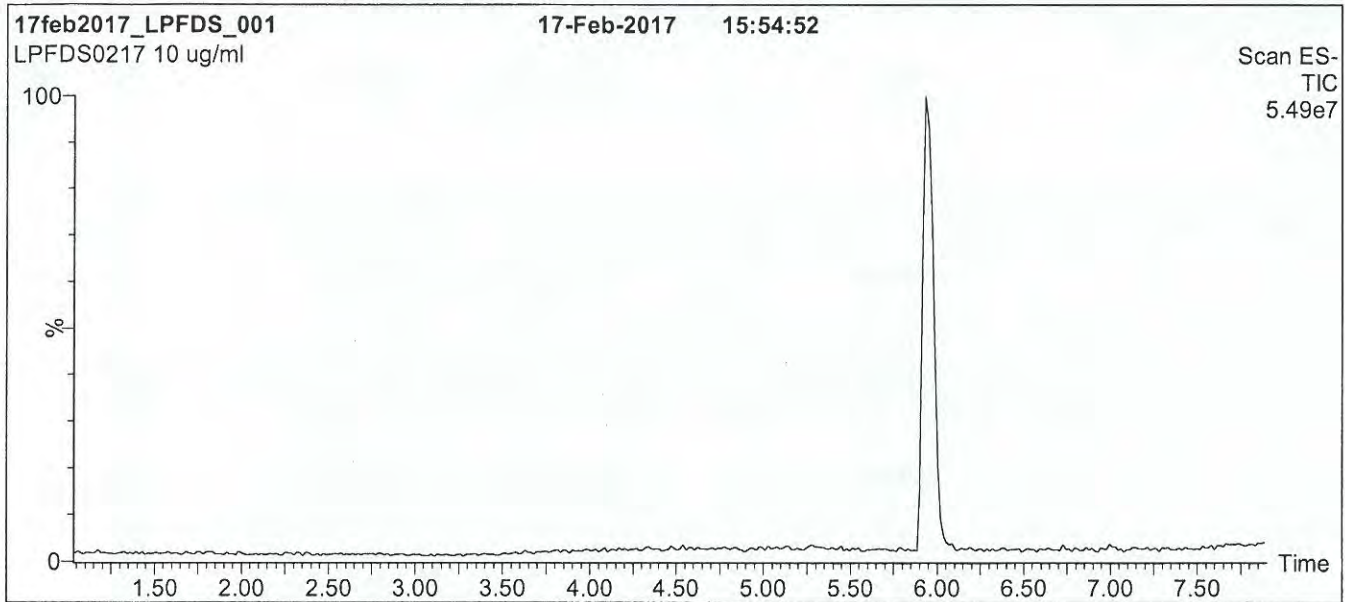
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1325

Figure 1: L-PFDS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for
1 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

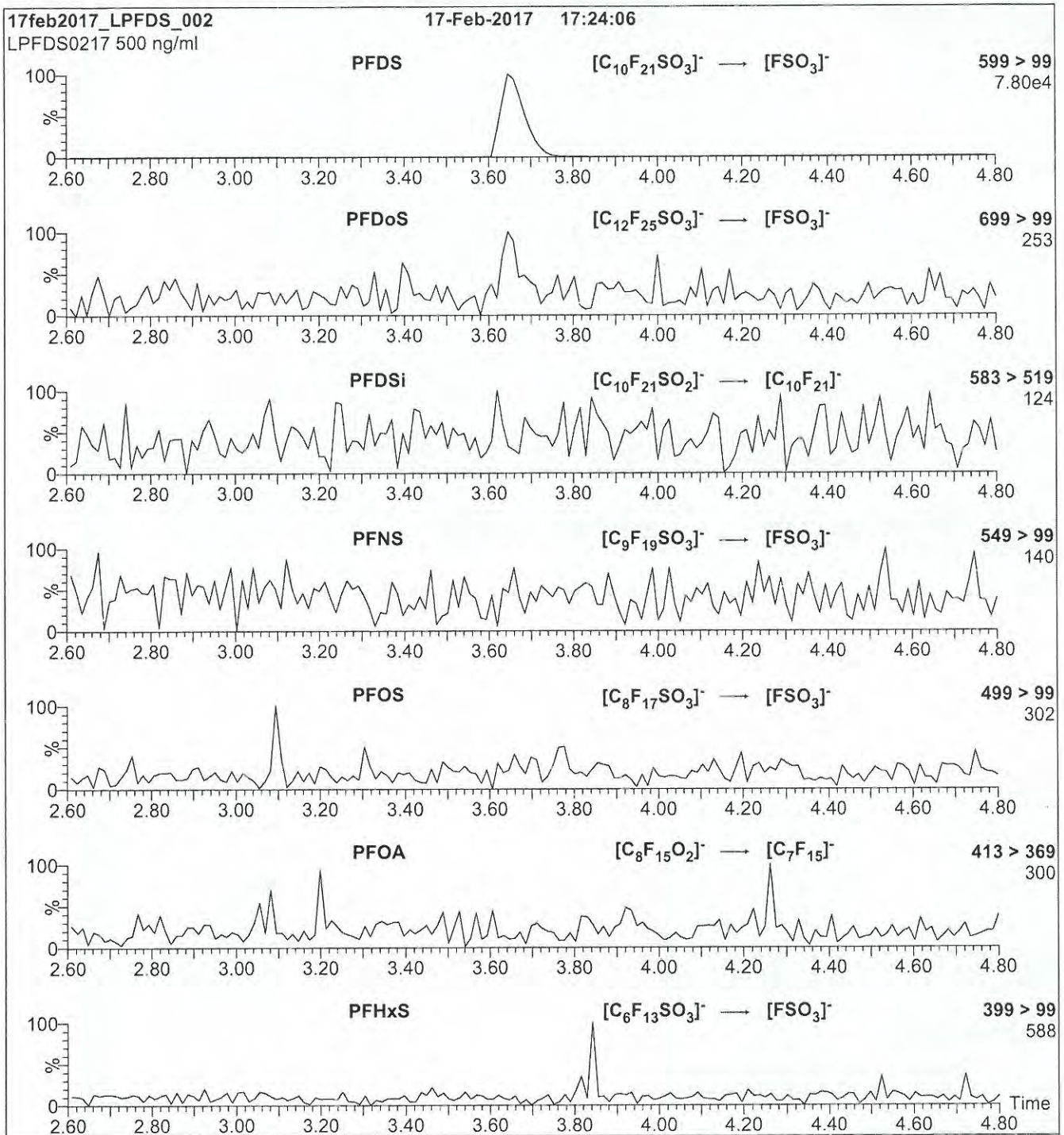
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 70.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1325

Figure 2: L-PFDS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml L-PFDS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 50

17G1326



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

L-PFHpS

LOT NUMBER:

LPFHpS1016

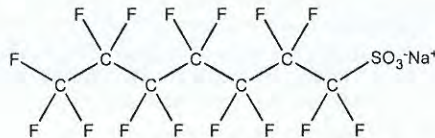
COMPOUND:

Sodium perfluoro-1-heptanesulfonate

STRUCTURE:

CAS #:

Not available



MOLECULAR FORMULA:

C₇F₁₅SO₃Na

MOLECULAR WEIGHT:

472.10

CONCENTRATION:

50.0 ± 2.5 µg/ml (Na salt)
47.6 ± 2.4 µg/ml (PFHpS anion)

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

10/18/2016

EXPIRY DATE: (mm/dd/yyyy)

10/18/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.2% of L-PFHxS (C₈F₁₃SO₃Na) and ~ 0.1% of L-PFOS (C₈F₁₇SO₃Na).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 10/20/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17G1326

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

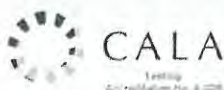
Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

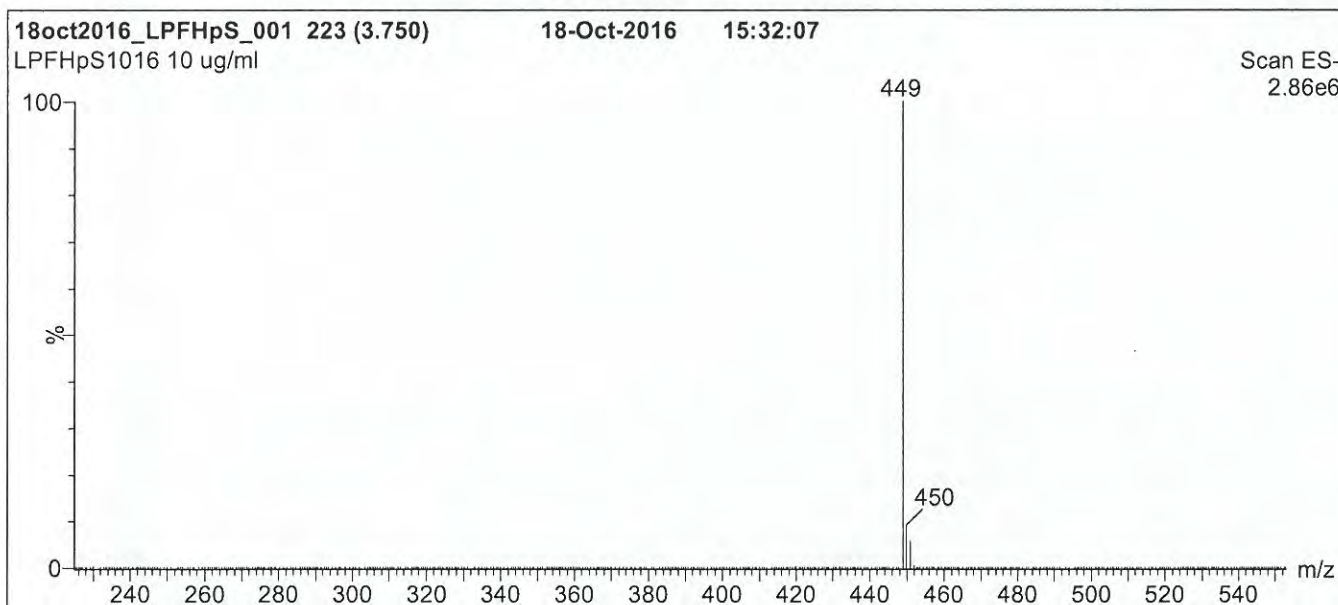
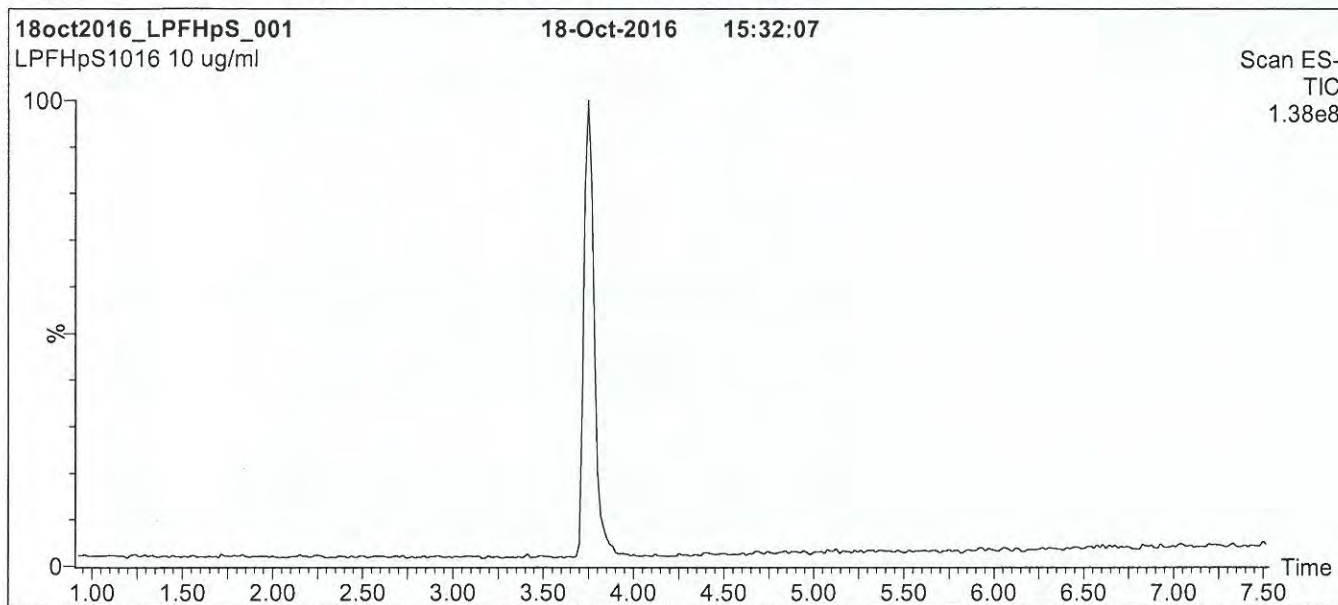
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1326

Figure 1: L-PFHpS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold
for 2 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

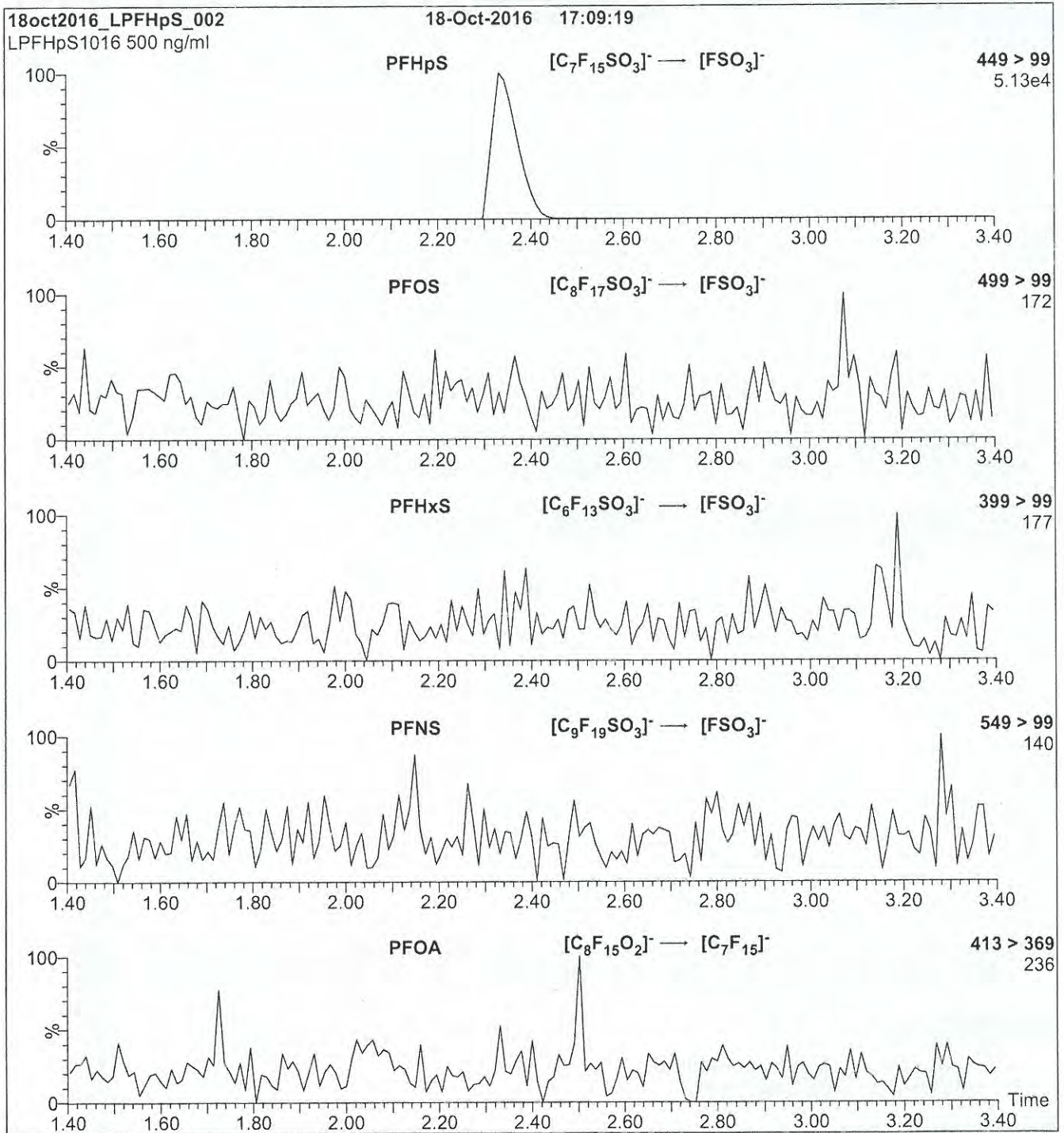
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17 G1326

Figure 2: L-PFHpS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml L-PFHpS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 35

17G1805



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

✓
PFDA

LOT NUMBER:

✓
PFDA0516

COMPOUND:

Perfluoro-n-decanoic acid

STRUCTURE:

CAS #:

335-76-2



MOLECULAR FORMULA:

$C_{10}HF_{19}O_2$

MOLECULAR WEIGHT:

514.08

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

SOLVENT(S):

Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

05/31/2016

EXPIRY DATE: (mm/dd/yyyy)

05/31/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.2% of Perfluoro-n-nonanoic acid (PFNA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 06/13/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17G1805

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

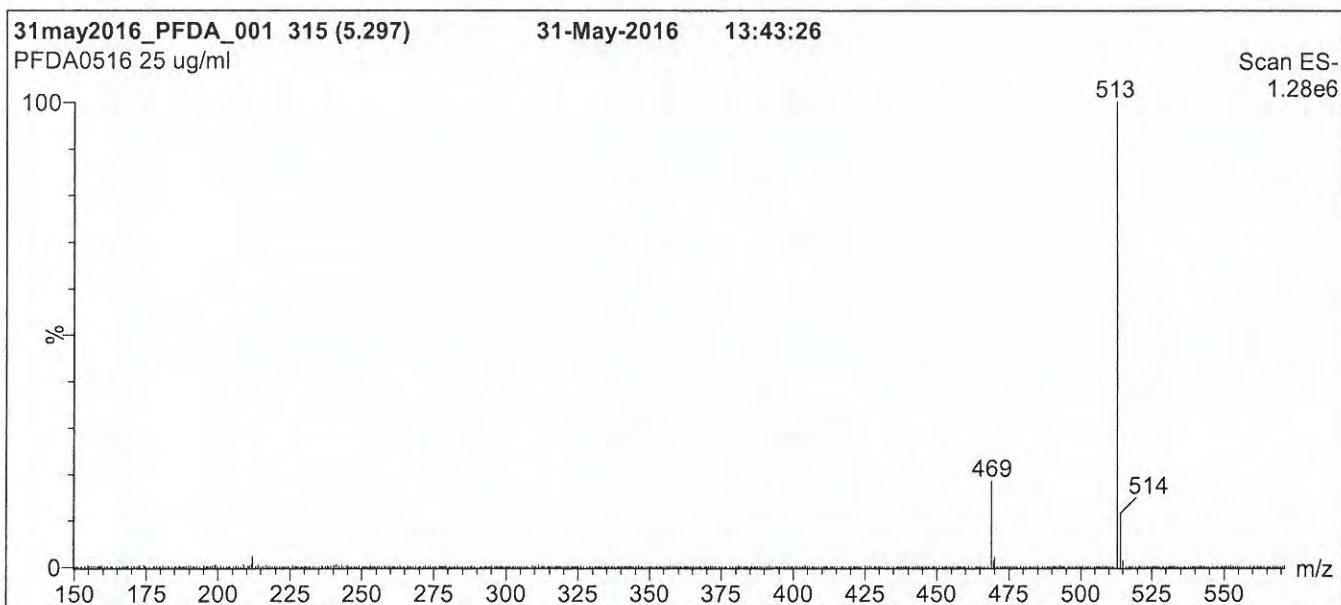
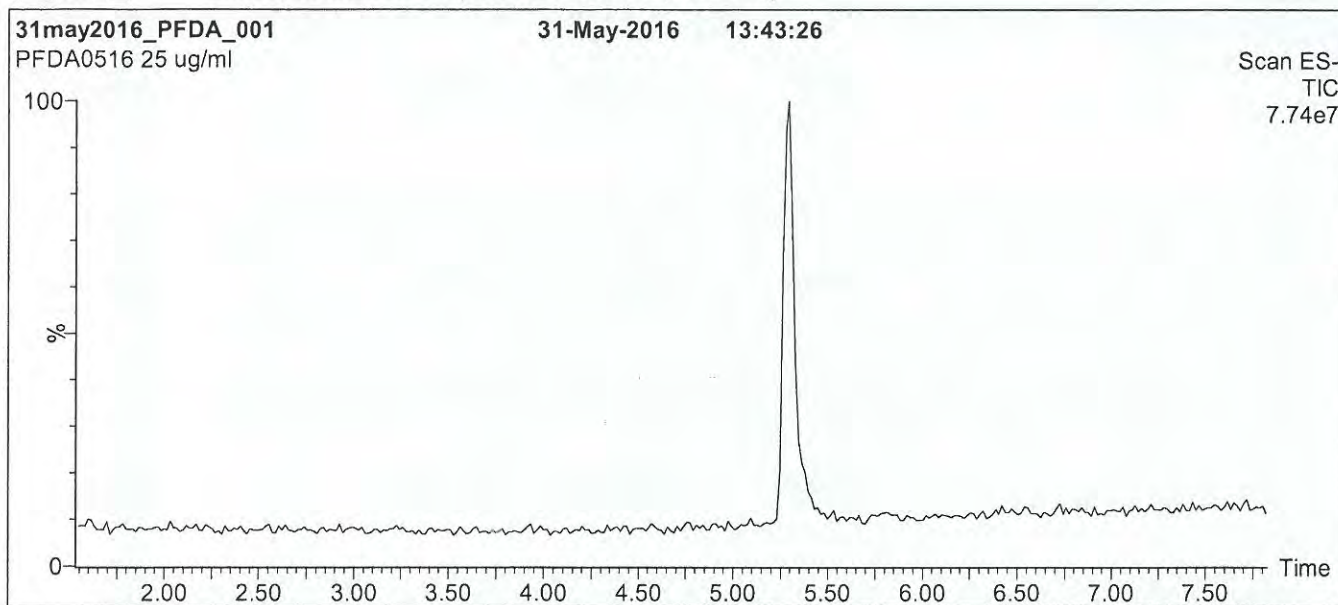
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1805

Figure 1: PFDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

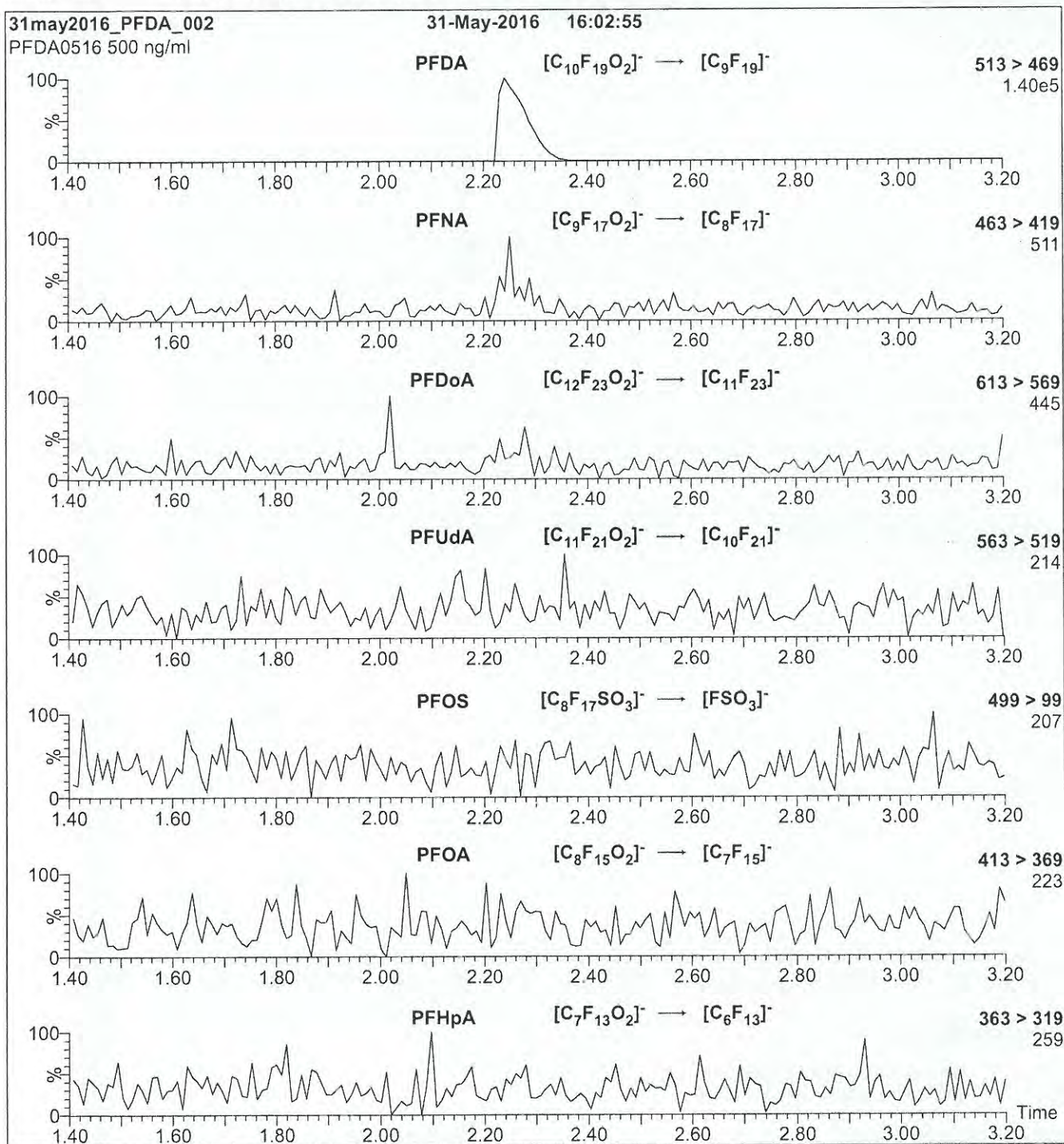
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1805

Figure 2: PFDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 13

17G1806



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

✓
PFHxA

COMPOUND:

Perfluoro-n-hexanoic acid

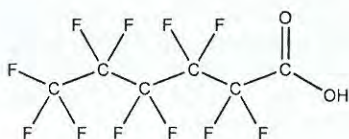
LOT NUMBER:

✓
PFHxA1216

STRUCTURE:

CAS #:

307-24-4



MOLECULAR FORMULA:

$C_6H_{11}O_2$

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

MOLECULAR WEIGHT:

314.05

SOLVENT(S):

Methanol
Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

12/02/2016

EXPIRY DATE: (mm/dd/yyyy)

12/02/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 1.0% of branched isomers.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 12/07/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17G1806

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

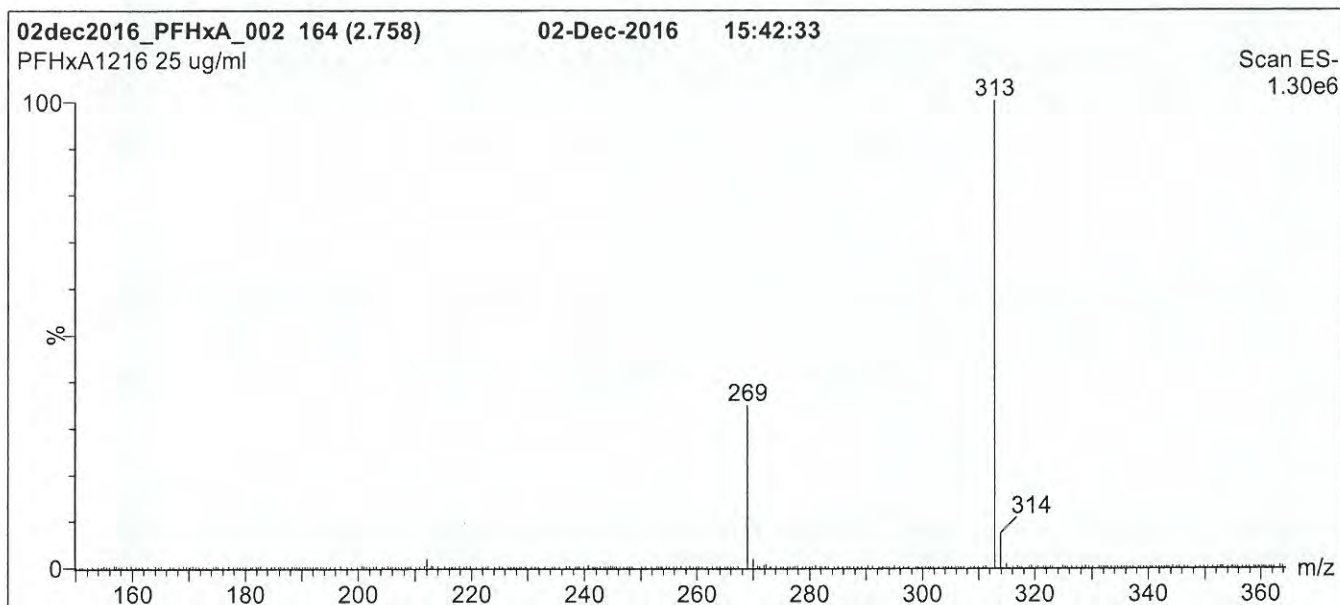
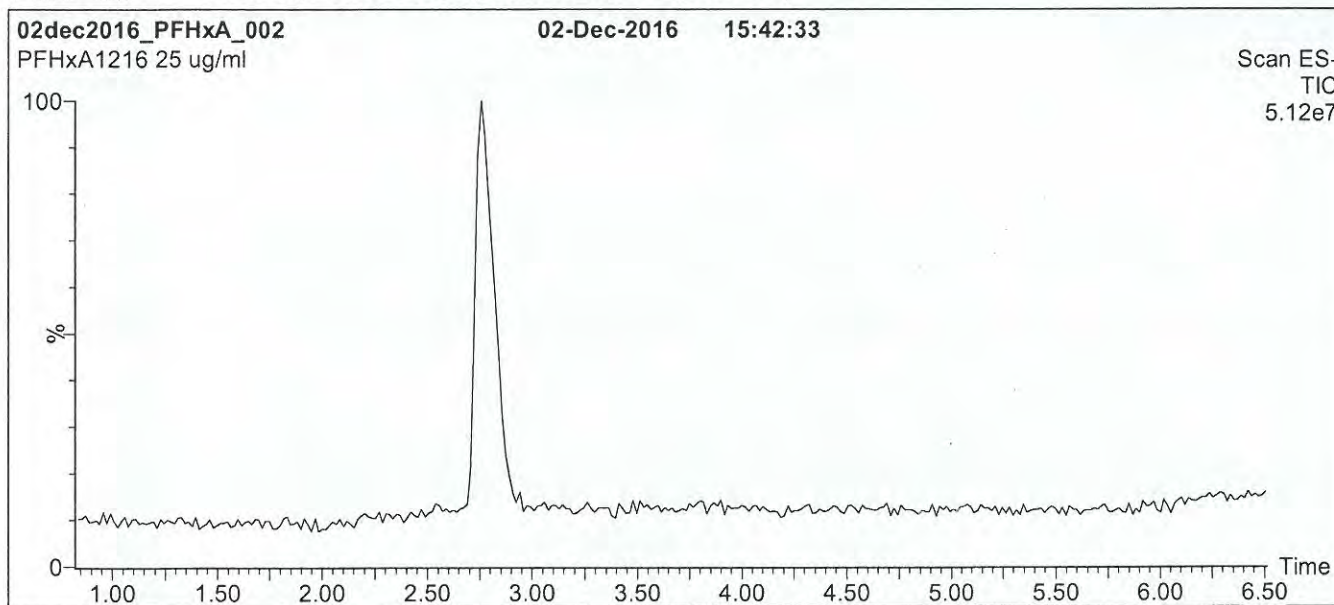
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17G1806

Figure 1: PFHxA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro micro API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 µl/min

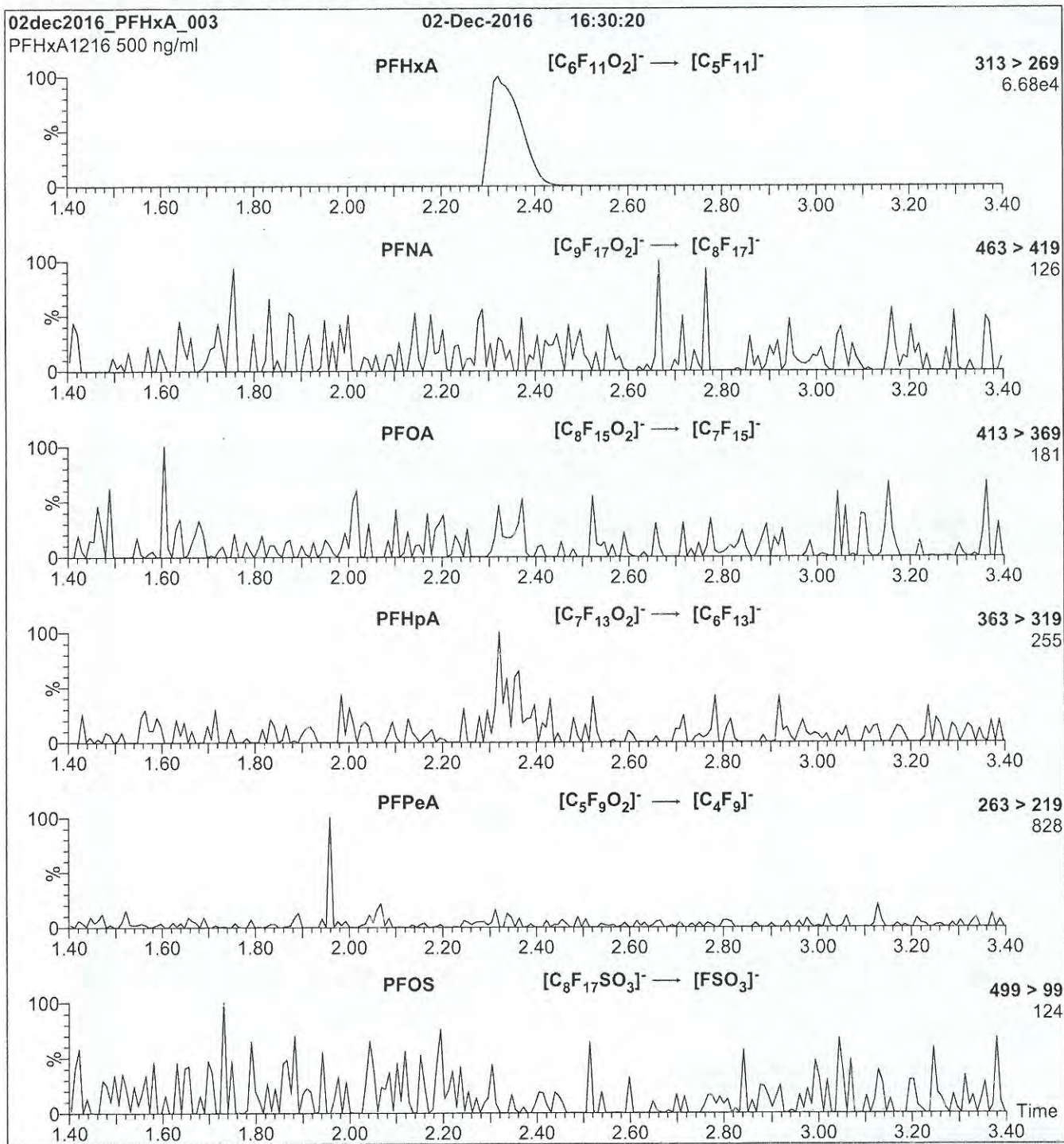
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1806

Figure 2: PFHxA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFHxA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.46e-3
Collision Energy (eV) = 10

17G1807



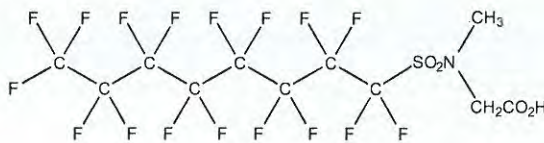
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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: N-MeFOSAA ✓
COMPOUND: N-methylperfluoro-1-octanesulfonamidoacetic acid

LOT NUMBER: NMeFOSAA0117 ✓

STRUCTURE:
CAS #: 2355-31-9



MOLECULAR FORMULA: C₁₁H₆F₁₇NO₄S
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 571.21
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/11/2017
EXPIRY DATE: (mm/dd/yyyy) 01/11/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim
Date: 01/12/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

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where x is expressed as a relative standard uncertainty of the individual parameter.

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TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

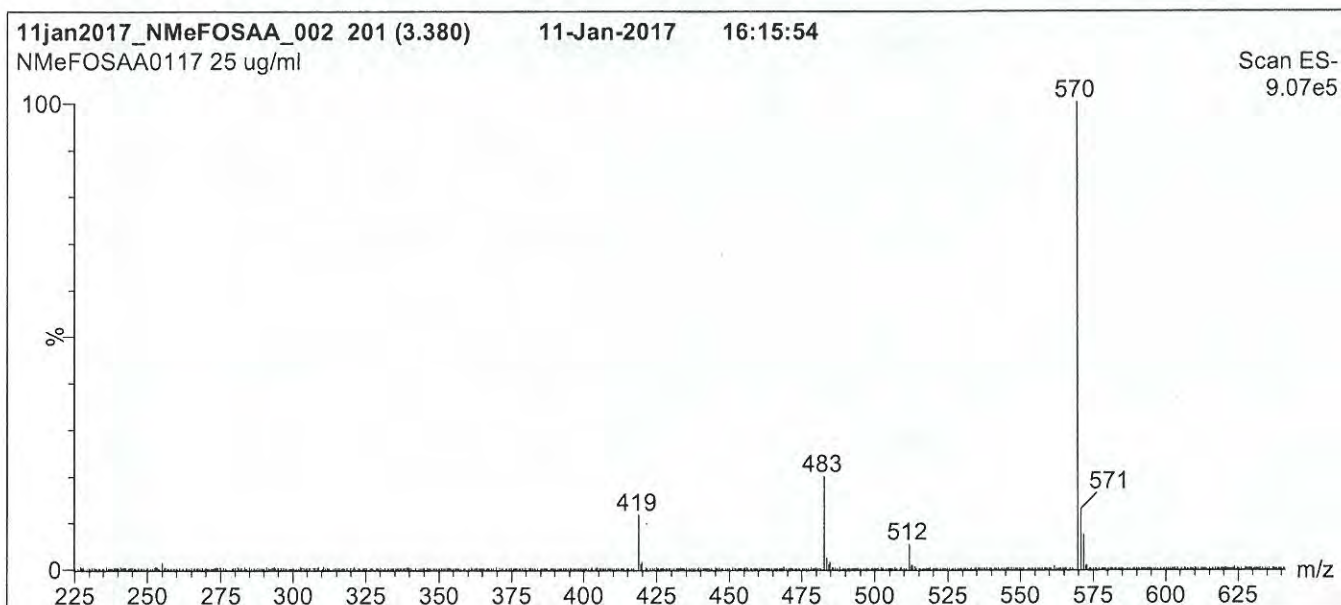
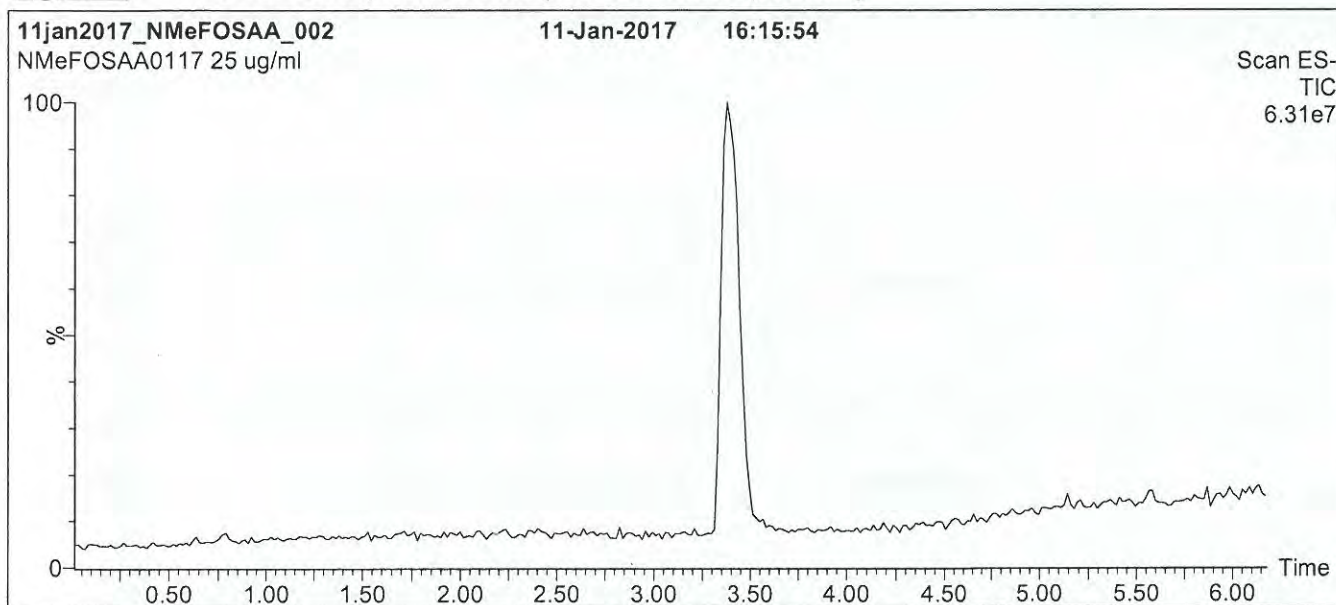
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1807

Figure 1: N-MeFOSAA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 65% (80:20 MeOH:ACN) / 35% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

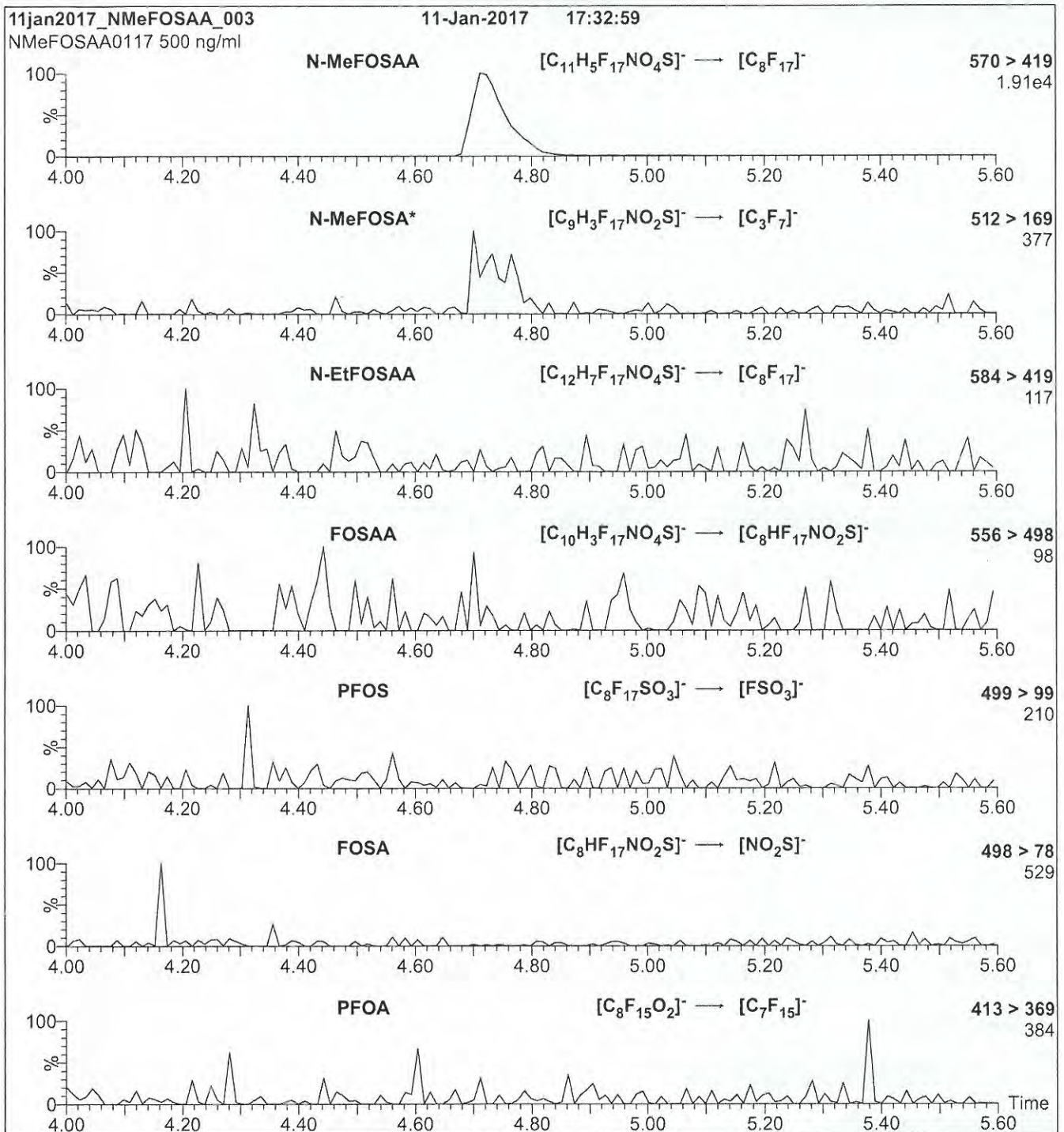
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1807

Figure 2: N-MeFOSAA; LC/MS/MS Data (Selected MRM Transitions)



*Note: N-MeFOSA is formed by in-source fragmentation.

Conditions for Figure 2:

Injection: Direct loop injection
 10 μ l (500 ng/ml N-MeFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
 Collision Energy (eV) = 20

17G 1808



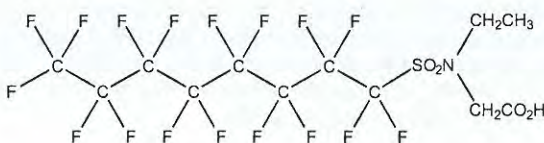
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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: N-EtFOSAA ✓
COMPOUND: N-ethylperfluoro-1-octanesulfonamidoacetic acid

LOT NUMBER: NEtFOSAA0117 ✓

STRUCTURE: **CAS #:** 2991-50-6



MOLECULAR FORMULA: C₁₂H₈F₁₇NO₄S
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 585.23
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 01/11/2017
EXPIRY DATE: (mm/dd/yyyy) 01/11/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 01/12/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17G1808

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

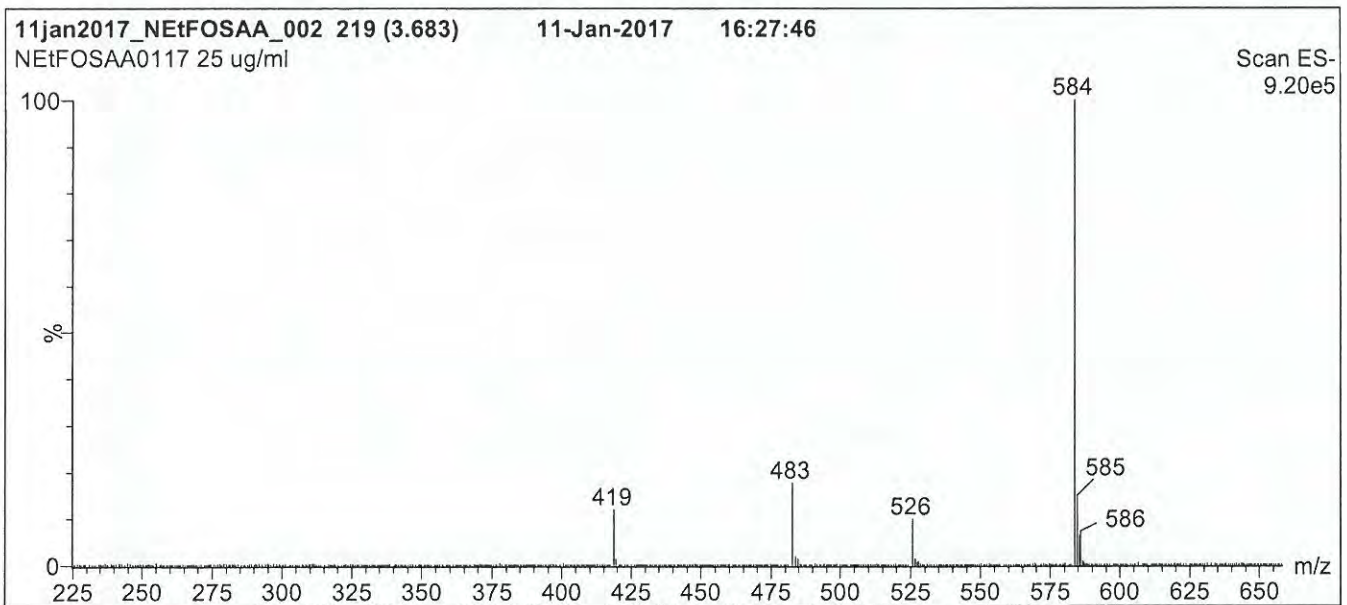
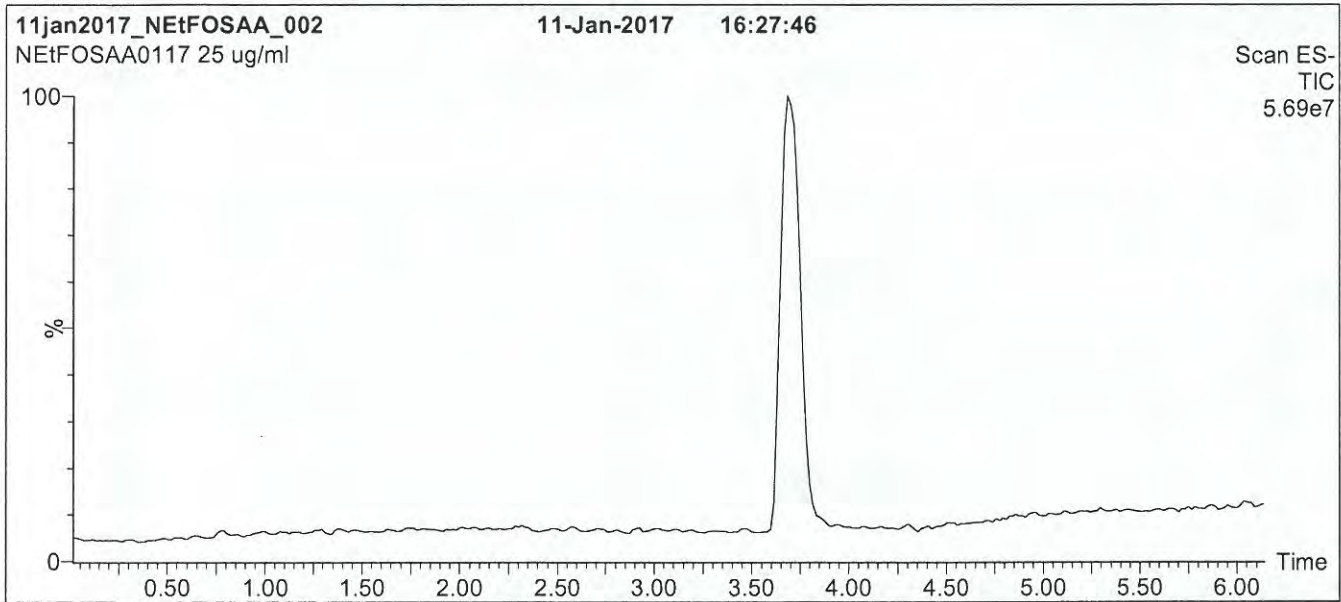
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17G1808

Figure 1: N-EtFOSAA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 65% (80:20 MeOH:ACN) / 35% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

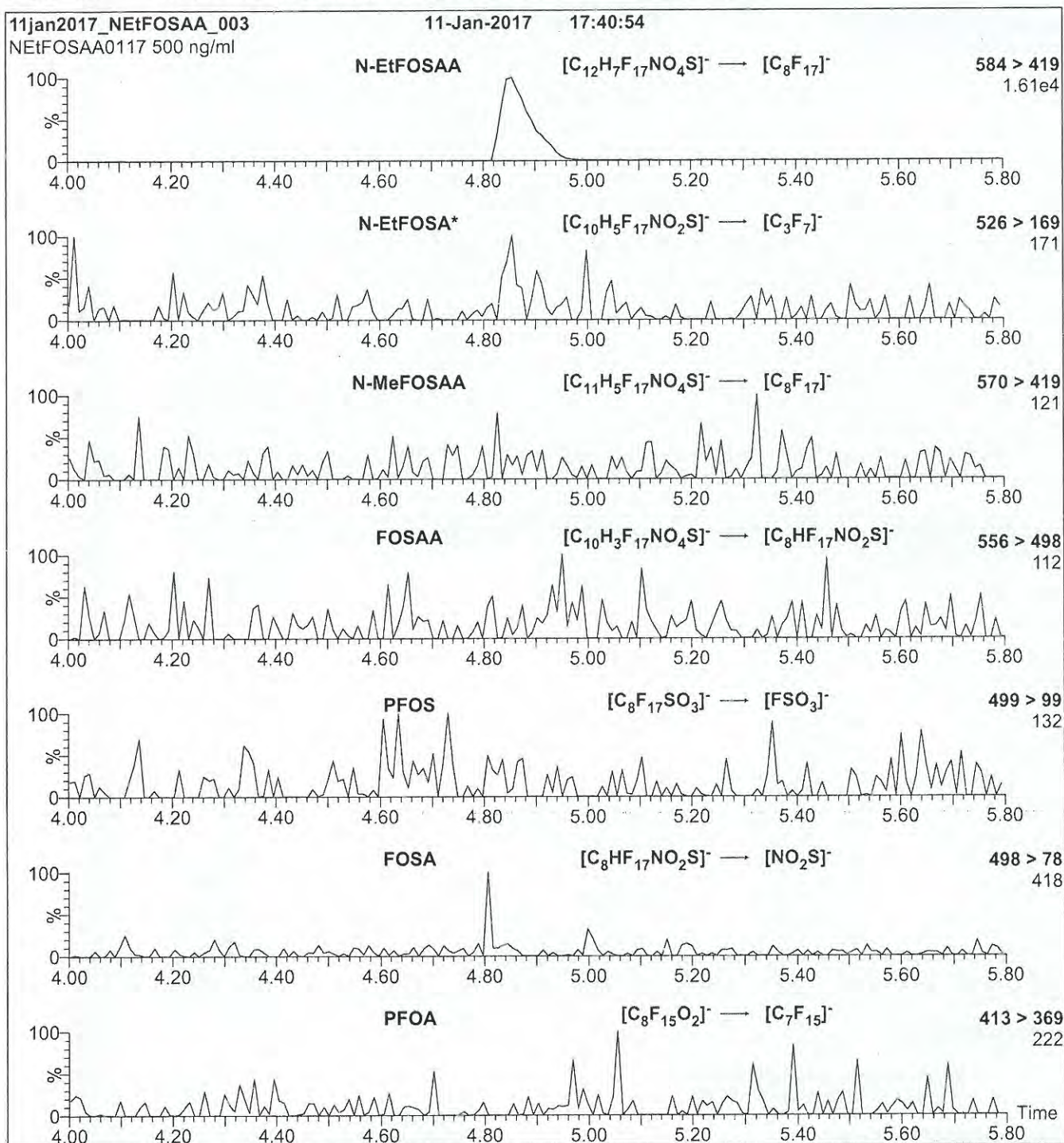
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1808

Figure 2: N-EtFOSAA; LC/MS/MS Data (Selected MRM Transitions)



Note: N-EtFOSA is formed by fragmentation of N-EtFOSAA.

Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml N-EtFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 20

17G1809



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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

PFBA

LOT NUMBER:

PFBA0517

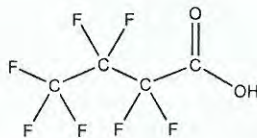
COMPOUND:

Perfluoro-n-butanoic acid

STRUCTURE:

CAS #:

375-22-4



MOLECULAR FORMULA:

C₄HF₇O₂

MOLECULAR WEIGHT:

214.04

CONCENTRATION:

50 ± 2.5 µg/ml

SOLVENT(S):

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

05/29/2017

EXPIRY DATE: (mm/dd/yyyy)

05/29/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim, General Manager

Date: 05/30/2017

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17G 1809

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

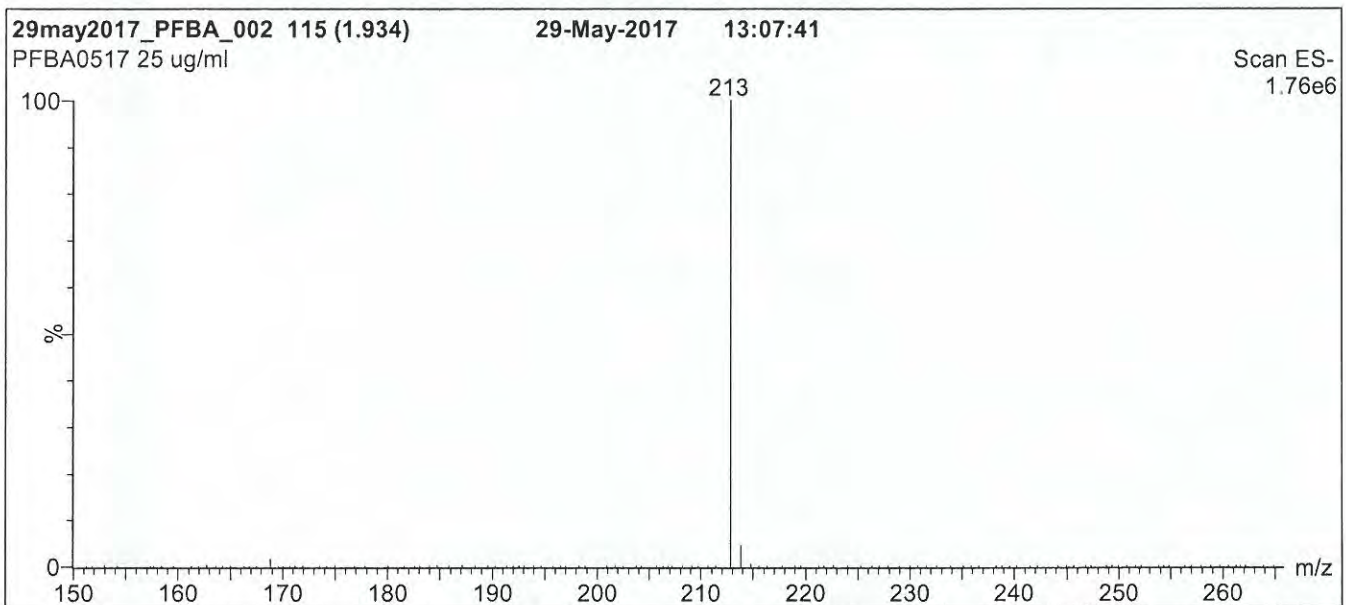
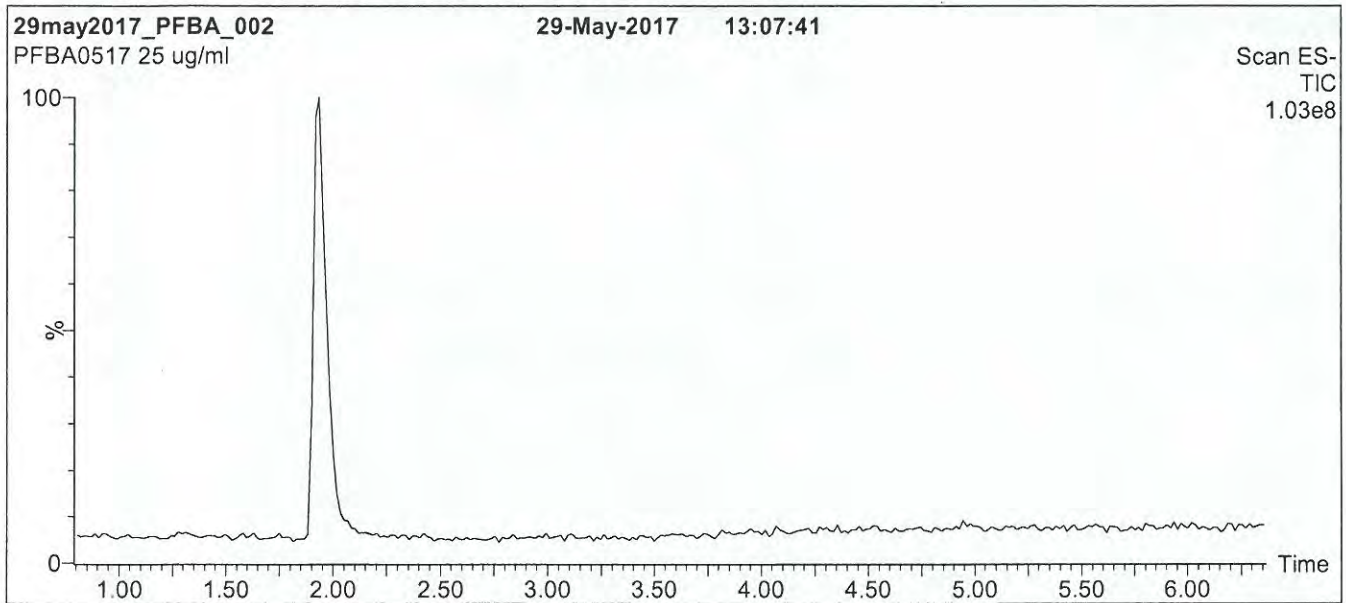
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1809

Figure 1: PFBA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

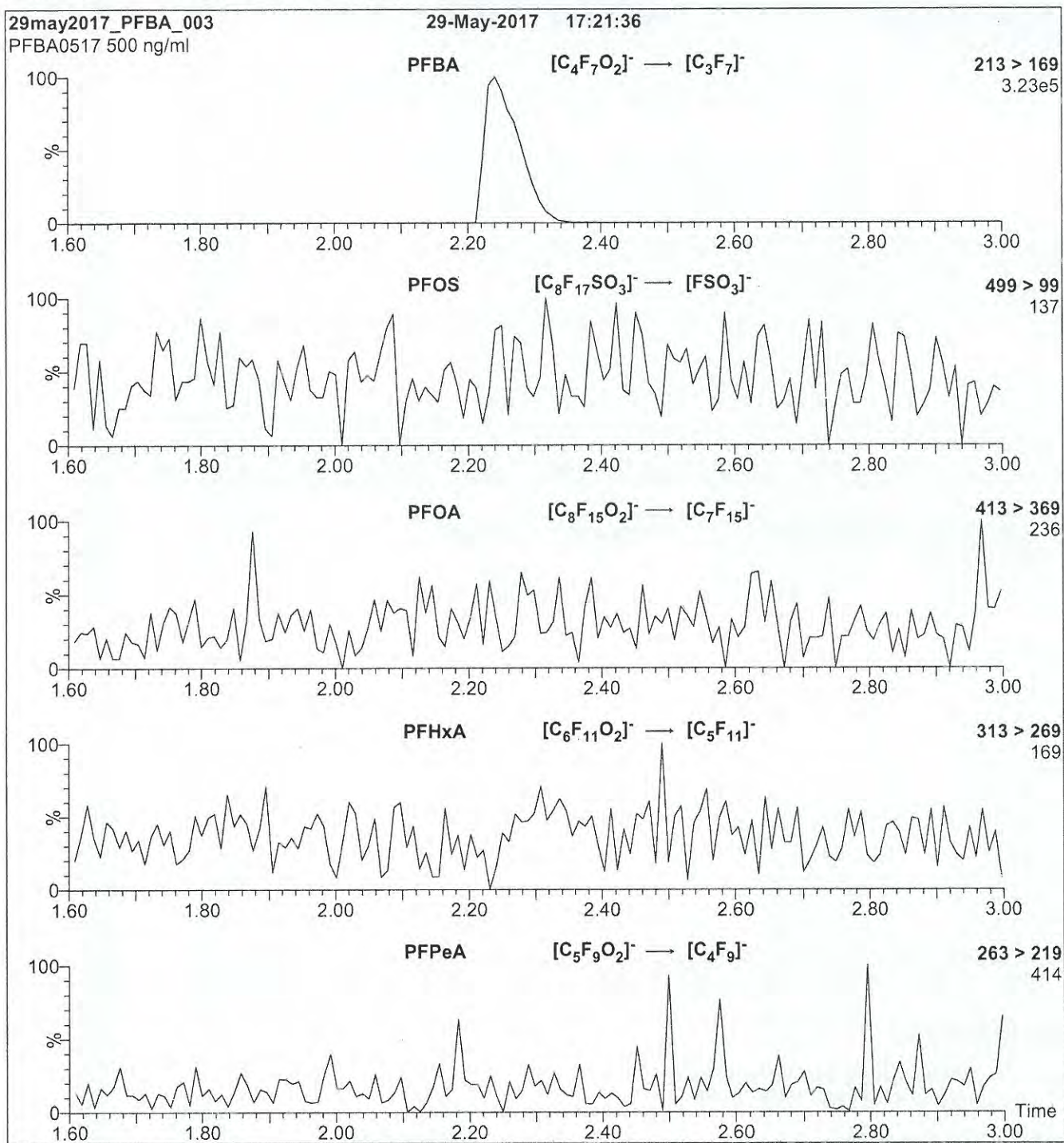
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1809

Figure 2: PFBA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFBA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 10

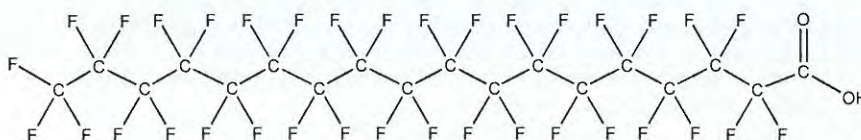
17G1810



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFODA ✓
COMPOUND: Perfluoro-n-octadecanoic acid
LOT NUMBER: PFODA0416 ✓
STRUCTURE:
CAS #: 16517-11-6



MOLECULAR FORMULA: $C_{18}HF_{35}O_2$
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$
MOLECULAR WEIGHT: 914.14
SOLVENT(S): Methanol
Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/29/2016
EXPIRY DATE: (mm/dd/yyyy) 04/29/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim
Date: 05/20/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

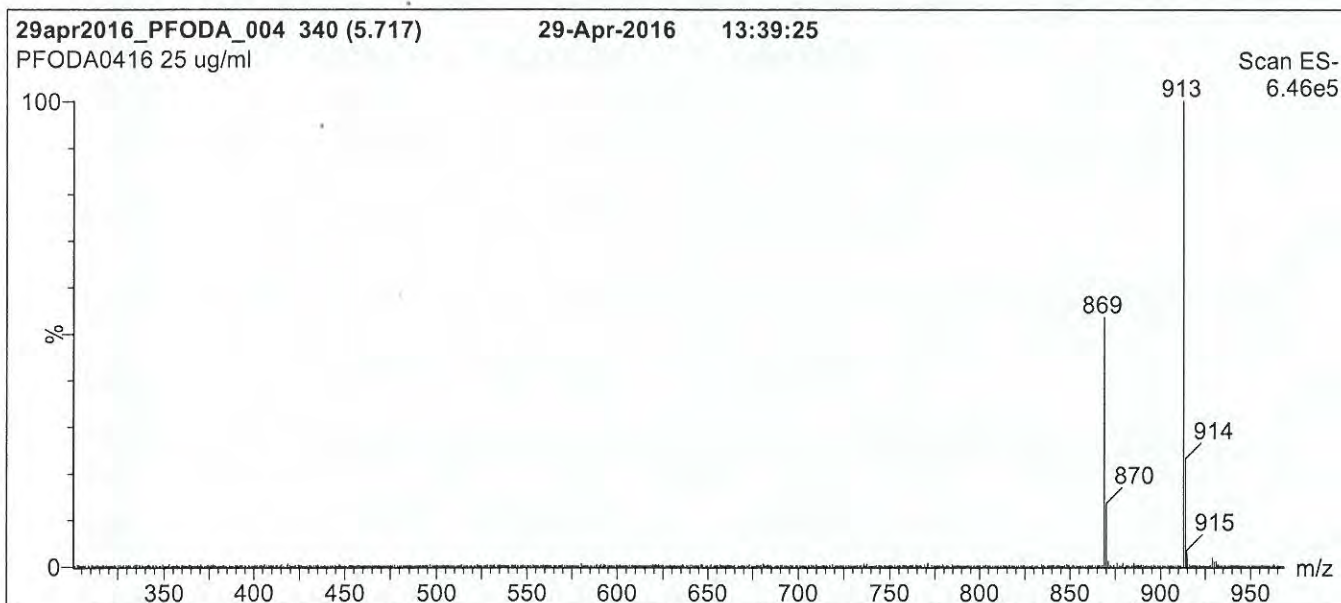
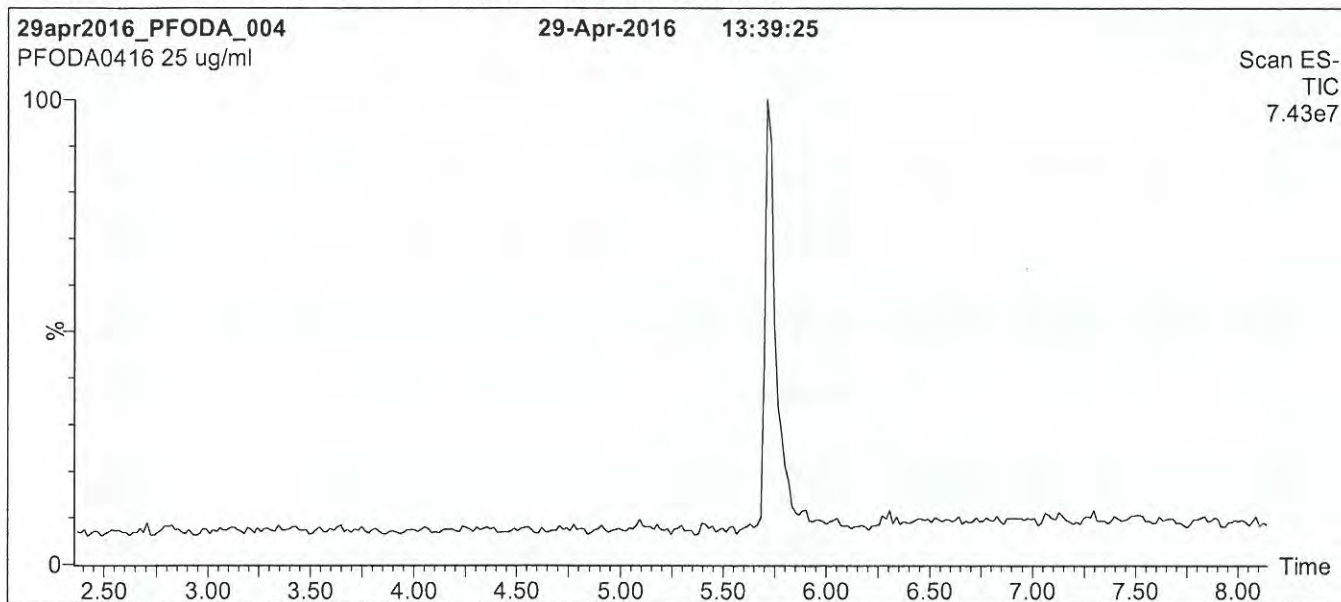
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1810

Figure 1: PFODA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient

Start: 70% (80:20 MeOH:ACN) / 30% H₂O
(both with 10 mM NH₄OAc buffer)

Ramp to 95% organic over 6 min and hold for
2.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (250 - 1000 amu)

Source: Electrospray (negative)

Capillary Voltage (kV) = 3.00

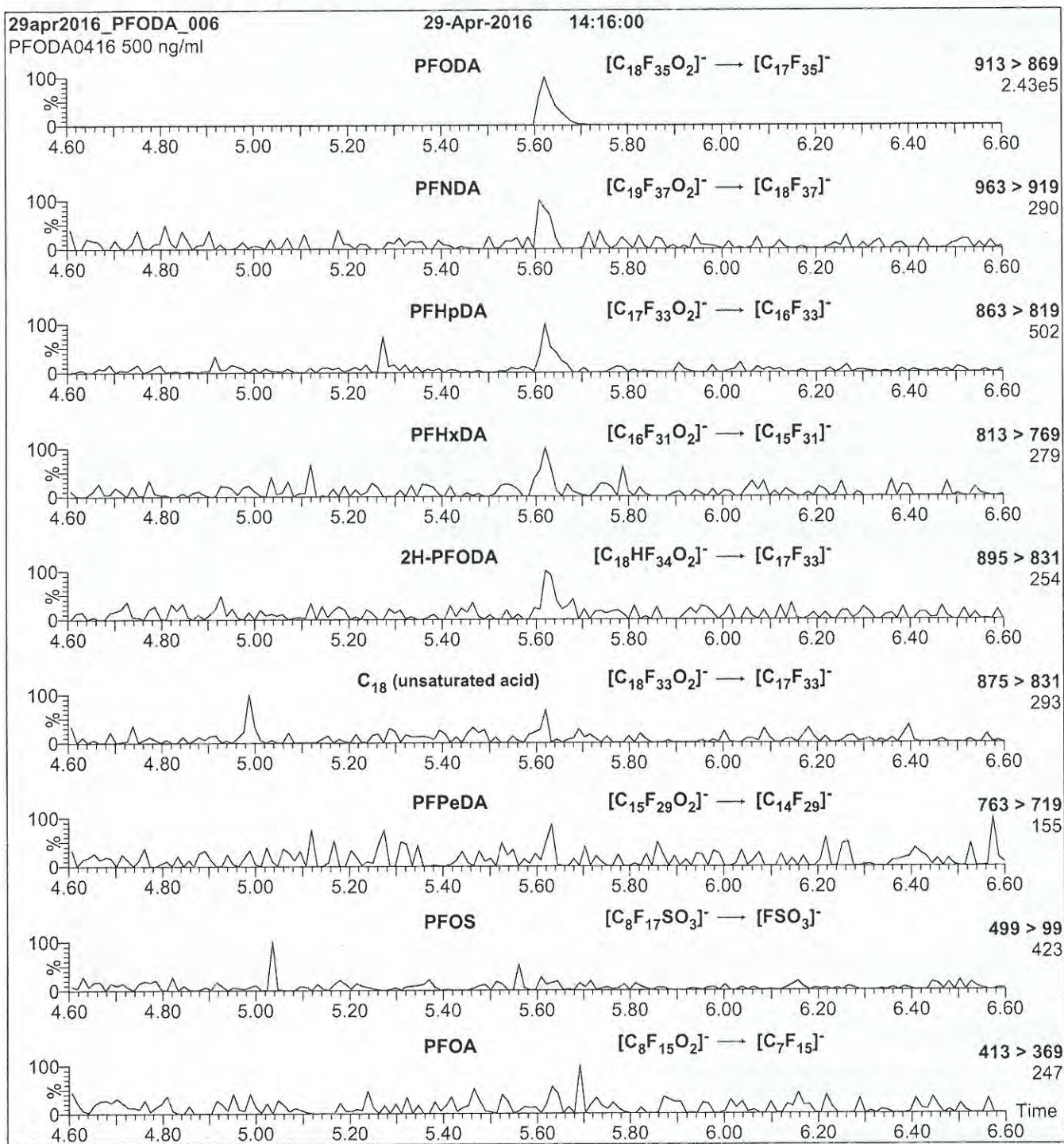
Cone Voltage (V) = 25.00

Cone Gas Flow (l/hr) = 50

Desolvation Gas Flow (l/hr) = 750

17G1810

Figure 2: PFODA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml PFODA)

Mobile phase: Isocratic 90% (80:20 MeOH:ACN) / 10% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 15

17G1811



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CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE:

L-PFBS

LOT NUMBER:

LPFBS1116

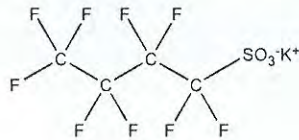
COMPOUND:

Potassium perfluoro-1-butanesulfonate

STRUCTURE:

CAS #:

29420-49-3



MOLECULAR FORMULA:

C₄F₉SO₃K

MOLECULAR WEIGHT:

338.19

CONCENTRATION:

50.0 ± 2.5 µg/ml (K salt)
44.2 ± 2.2 µg/ml (PFBS anion)

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

12/02/2016

EXPIRY DATE: (mm/dd/yyyy)

12/02/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 12/05/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17 G1811

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

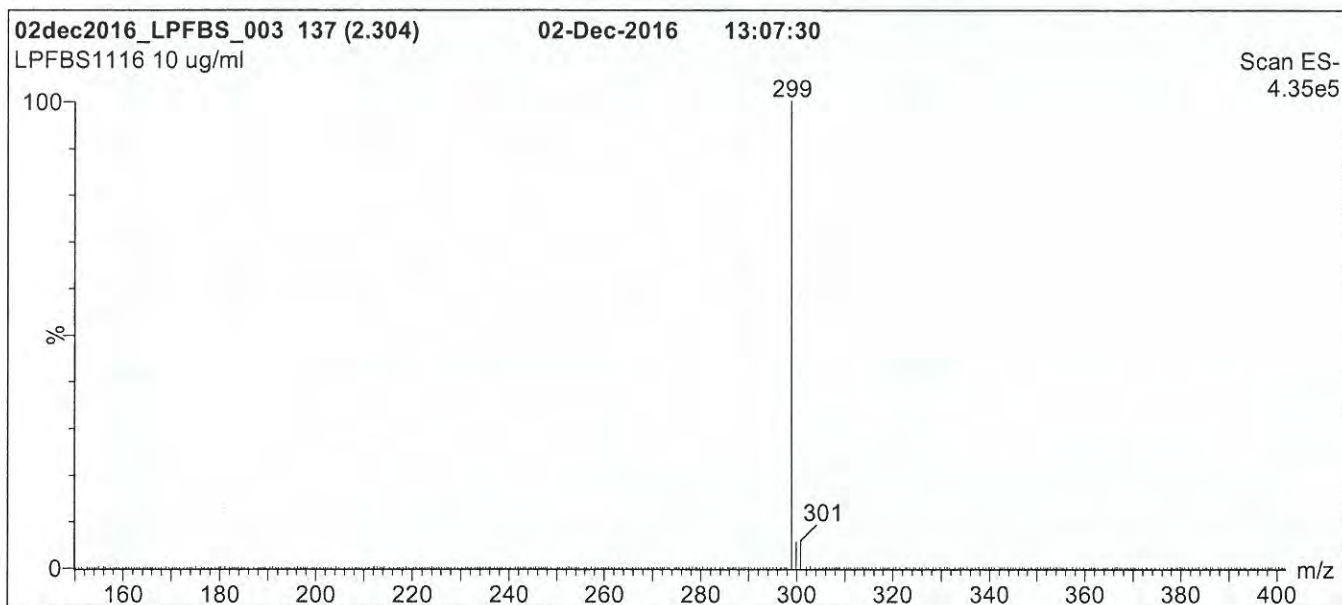
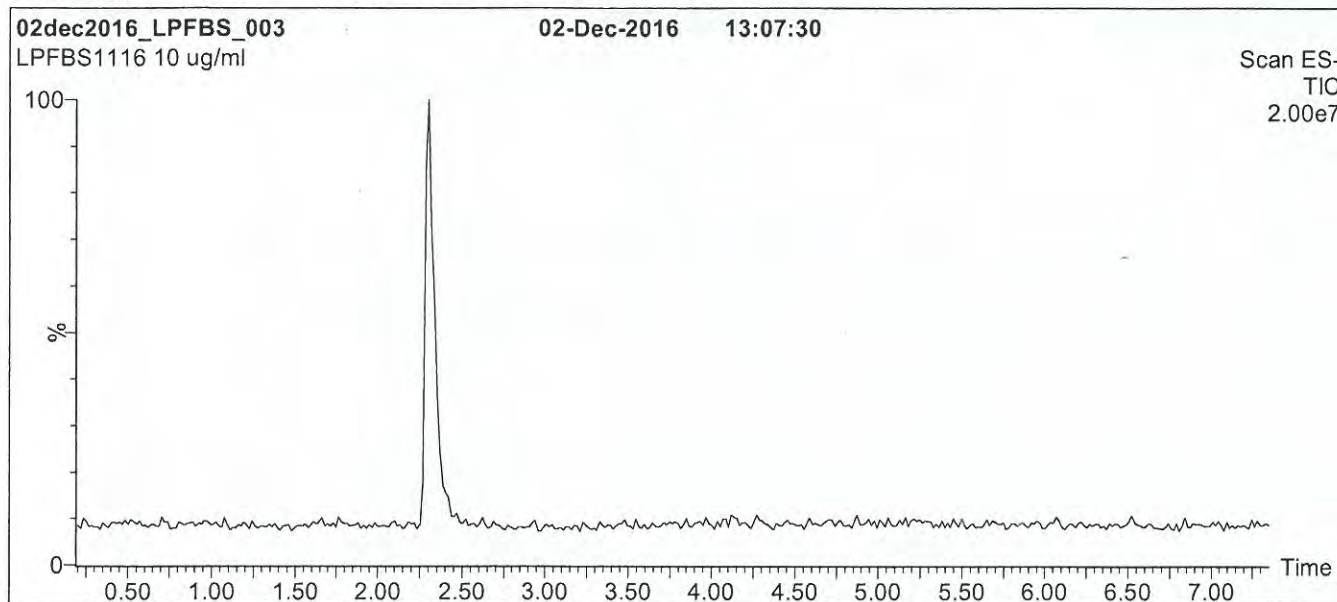
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17G1811

Figure 1: L-PFBS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% (80:20 MeOH:ACN) / 60% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

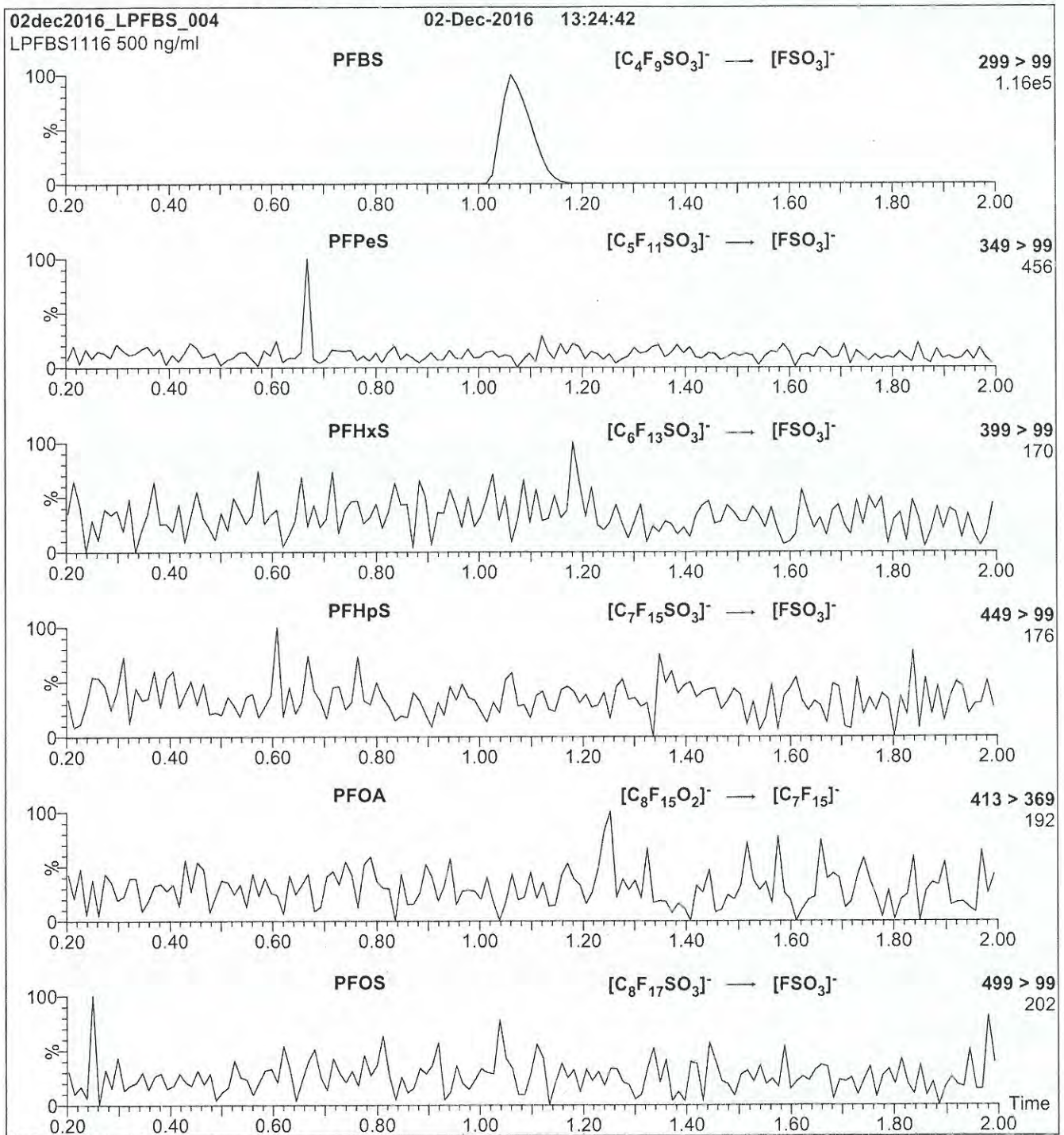
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1811

Figure 2: L-PFBS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml L-PFBS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 25

17G1812

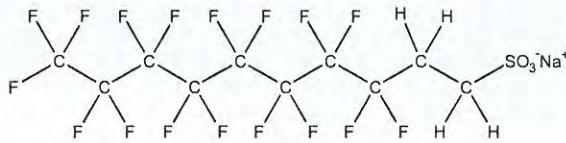


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: 8:2FTS **LOT NUMBER:** 82FTS1216
COMPOUND: Sodium 1H,1H,2H,2H-perfluorodecane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₁₀H₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 550.16
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.9 ± 2.4 µg/ml (8:2FTS anion)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 12/12/2016
EXPIRY DATE: (mm/dd/yyyy) 12/12/2021
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim **Date:** 12/21/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17G1812

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

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$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

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TRACEABILITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

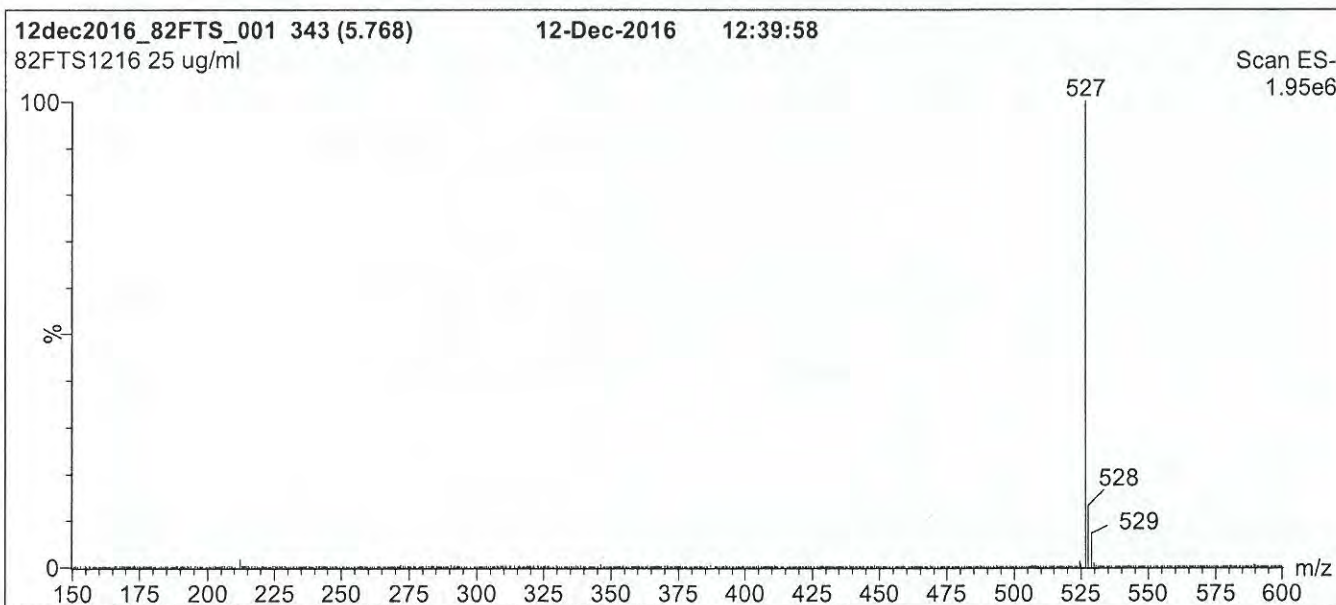
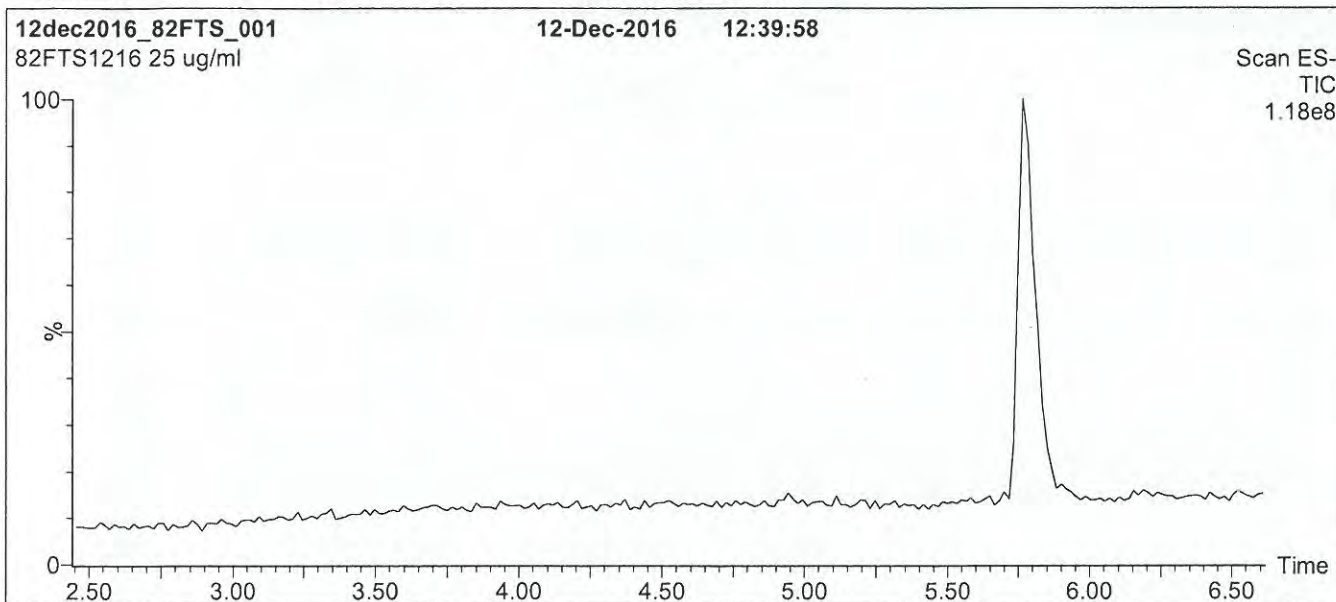
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1812

Figure 1: 8:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 85% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

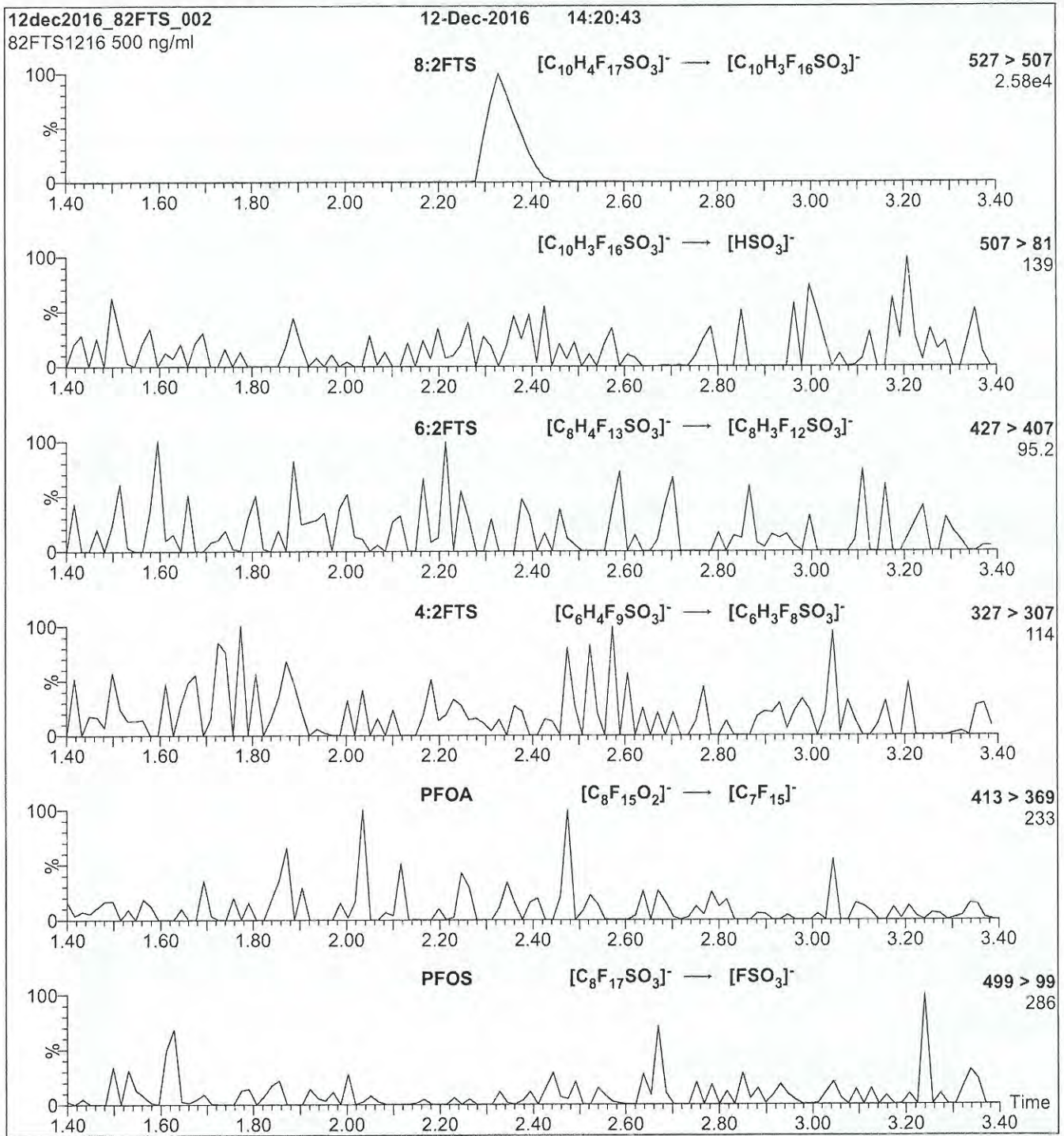
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)
Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17G1812

Figure 2: 8:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml 8:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 30

17G1813

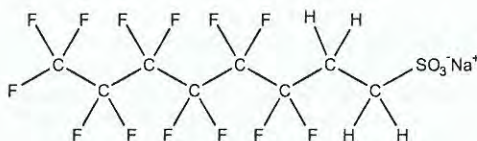


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: 6:2FTS ✓ **LOT NUMBER:** 62FTS0417 ✓
COMPOUND: Sodium 1H,1H,2H,2H-perfluorooctane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: $C_8H_4F_{13}SO_3Na$ **MOLECULAR WEIGHT:** 450.15
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.4 ± 2.4 µg/ml (6:2FTS anion)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/20/2017
EXPIRY DATE: (mm/dd/yyyy) 04/20/2022
RECOMMENDED STORAGE: Refrigerate ampoule

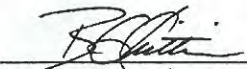
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 04/24/2017
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
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17 G/813

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

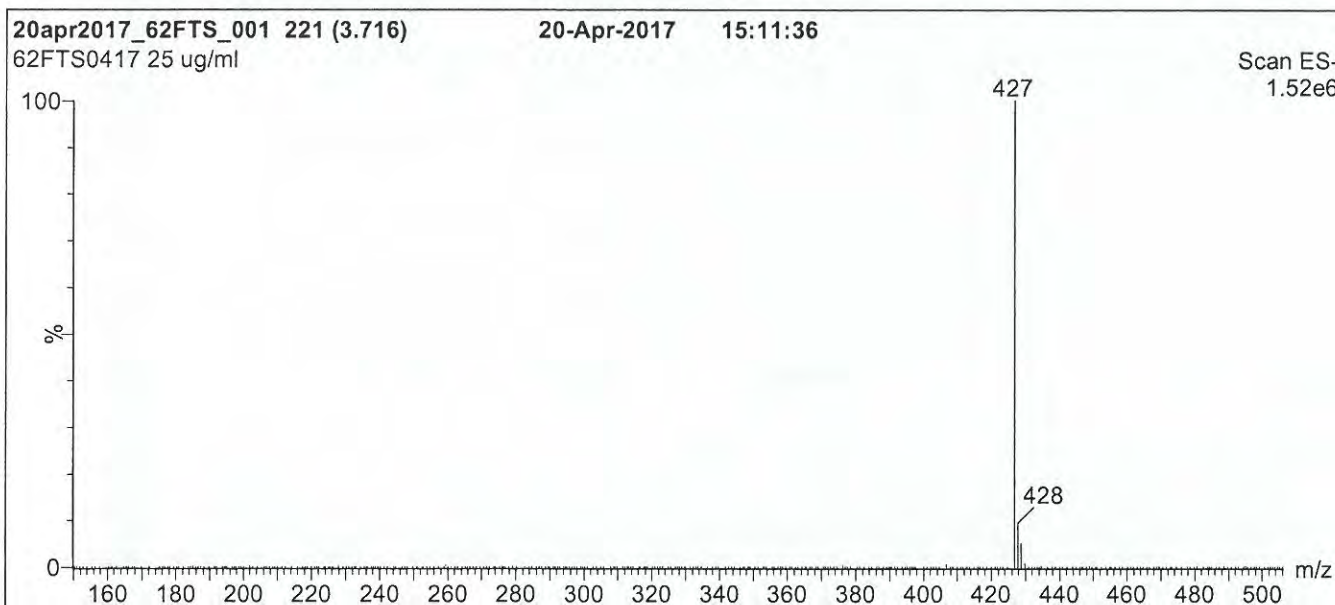
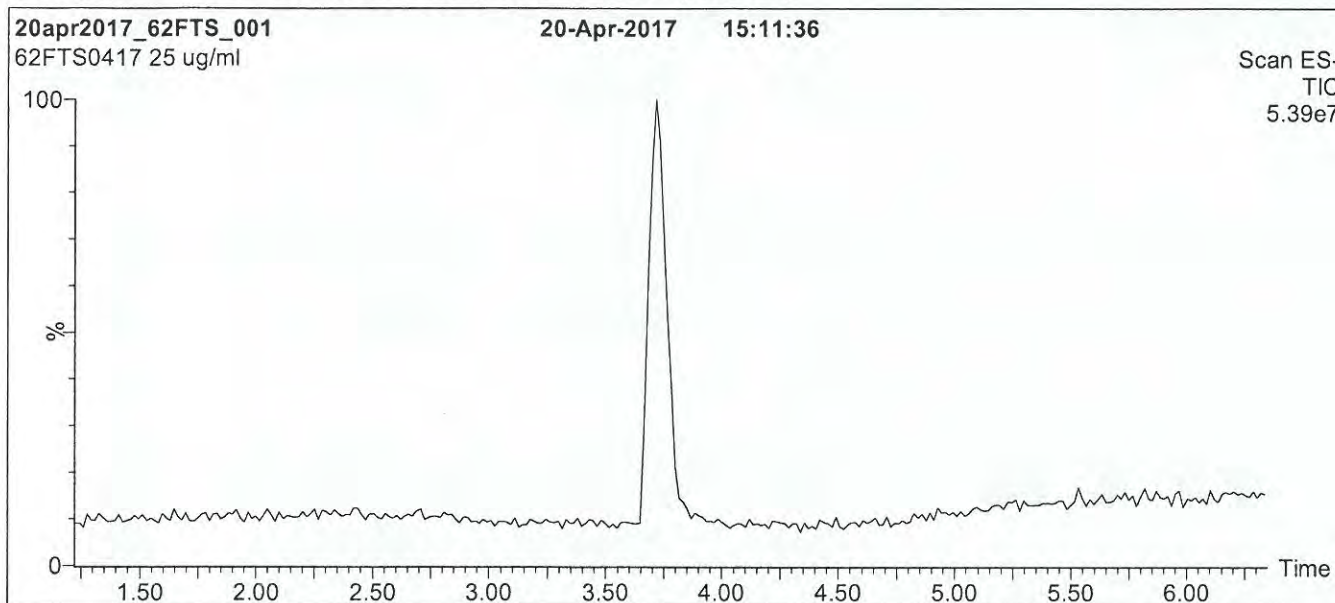
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17G1813

Figure 1: 6:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 85% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

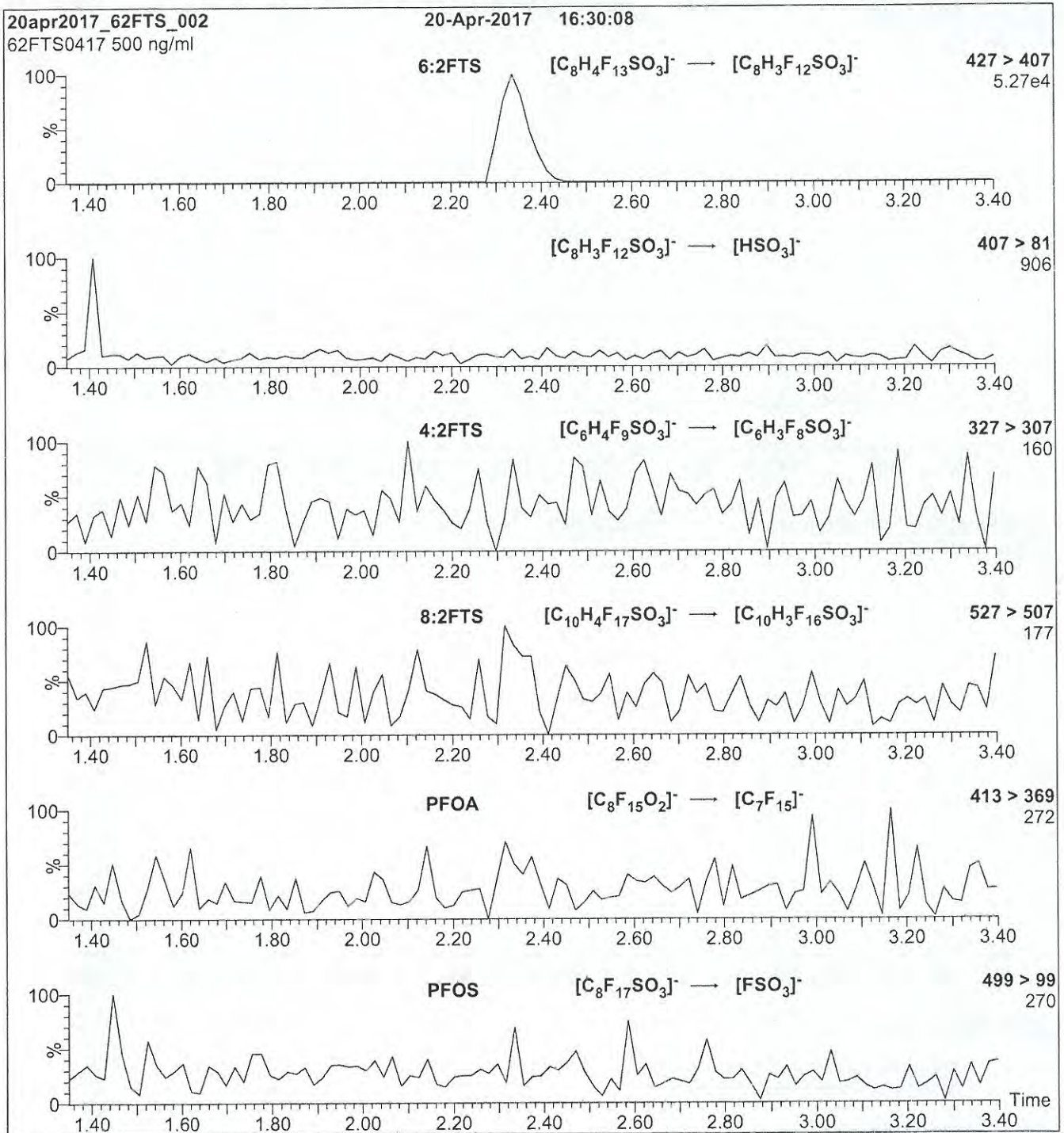
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17G1813

Figure 2: 6:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml 6:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 25

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WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

PFD0A ✓

LOT NUMBER:

PFD0A0516

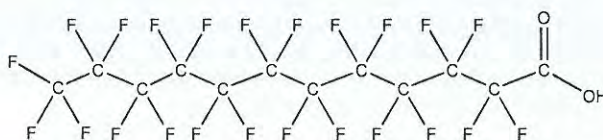
COMPOUND:

Perfluoro-n-dodecanoic acid

STRUCTURE:

CAS #:

307-55-1



MOLECULAR FORMULA:

$C_{12}HF_{23}O_2$

MOLECULAR WEIGHT:

614.10

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

SOLVENT(S):

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

05/31/2016

EXPIRY DATE: (mm/dd/yyyy)

05/31/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 06/02/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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SYNTHESIS / CHARACTERIZATION:

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where x is expressed as a relative standard uncertainty of the individual parameter.

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TRACEABILITY:

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LIMITED WARRANTY:

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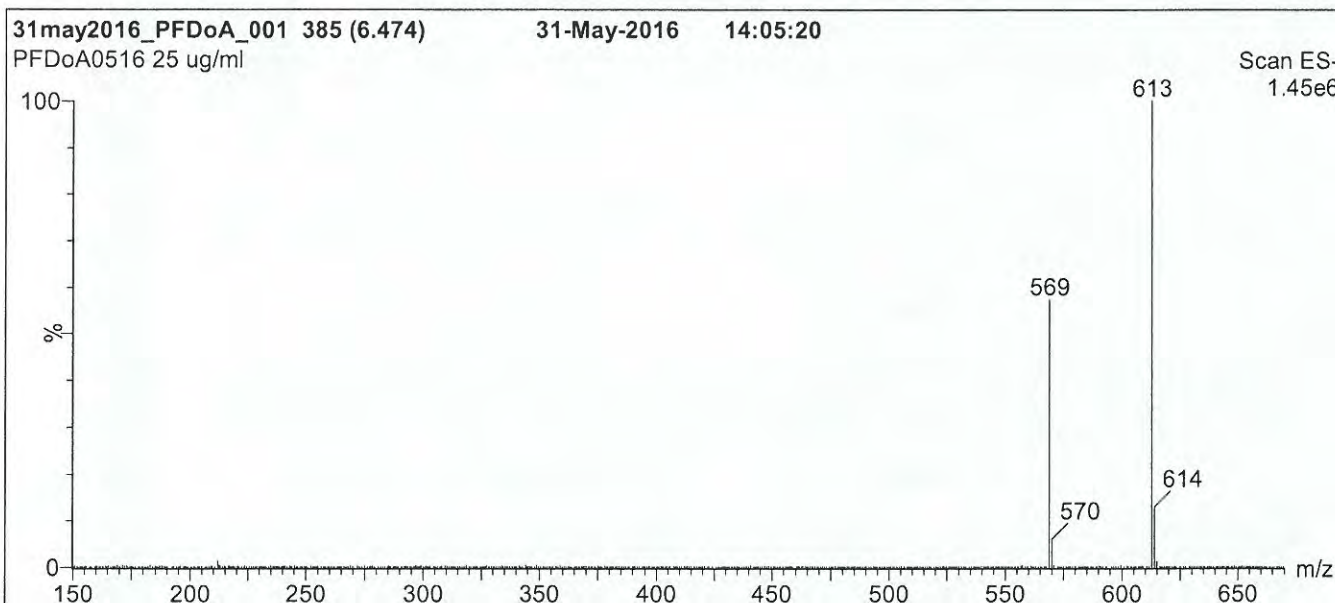
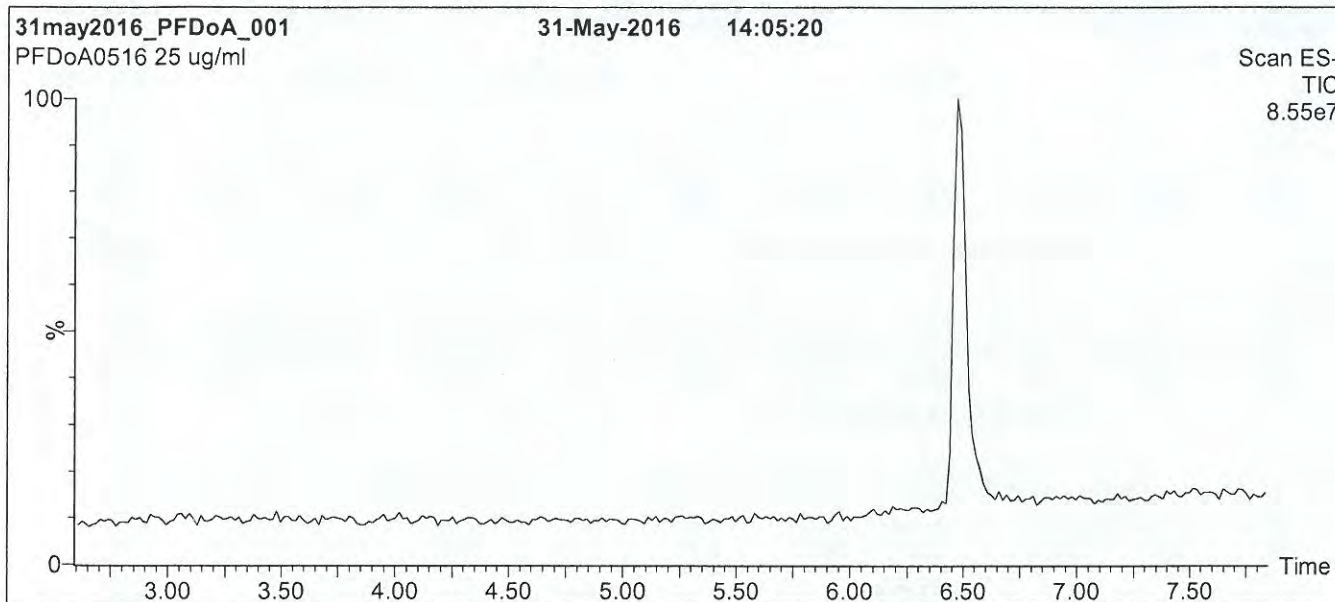
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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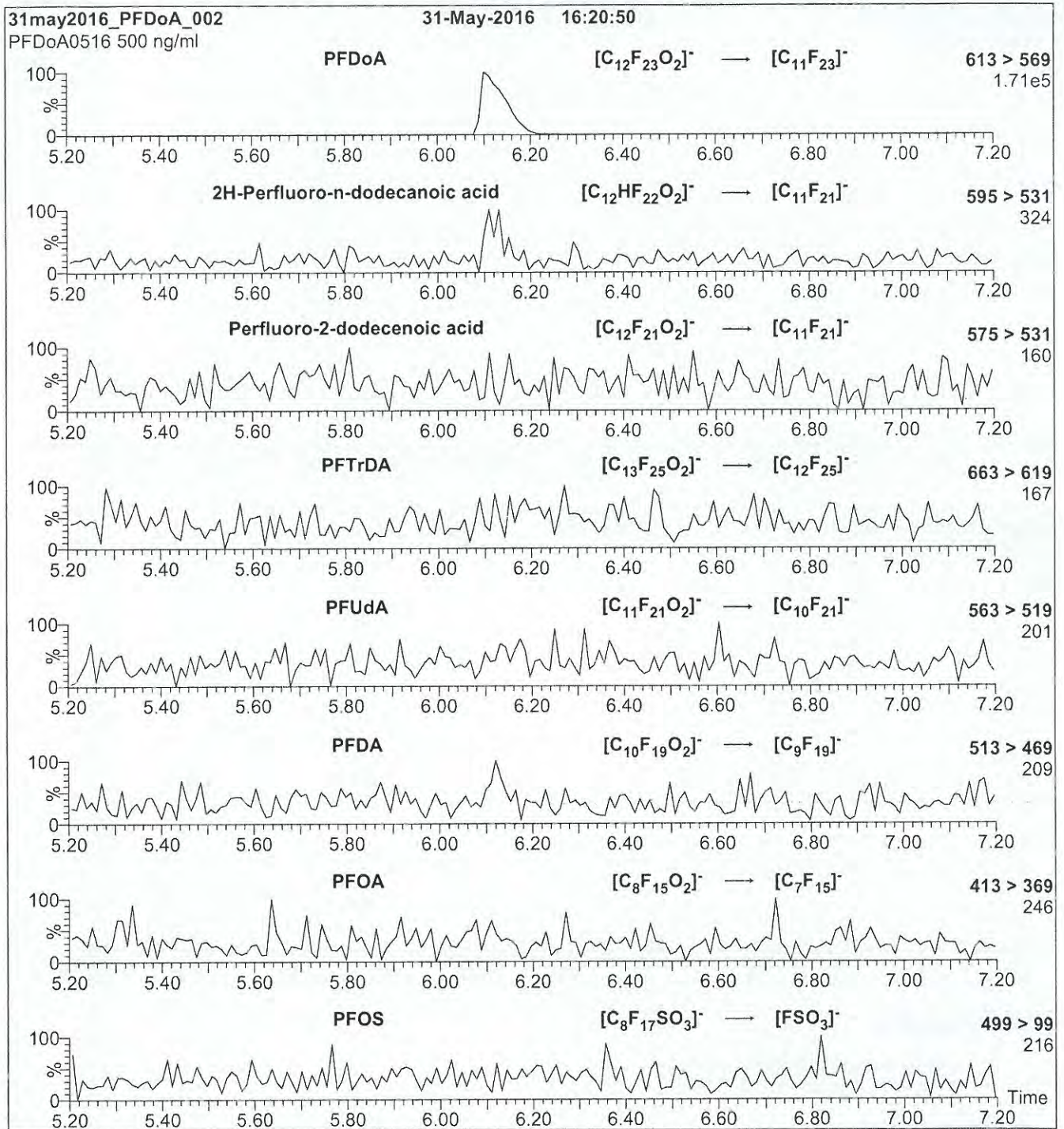
Figure 1: PFD_oA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC:	Waters Acquity Ultra Performance LC	MS Parameters
MS:	Micromass Quattro <i>micro</i> API MS	Experiment: Full Scan (150 - 850 amu)
Chromatographic Conditions		Source: Electrospray (negative)
Column:	Acquity UPLC BEH Shield RP ₁₈ 1.7 μ m, 2.1 x 100 mm	Capillary Voltage (kV) = 2.00
Mobile phase:	Gradient Start: 50% (80:20 MeOH:ACN) / 50% H ₂ O (both with 10 mM NH ₄ OAc buffer) Ramp to 90% organic over 7.5 min and hold for 1.5 min before returning to initial conditions in 0.5 min. Time: 10 min	Cone Voltage (V) = 20.00
Flow:	300 μ l/min	Cone Gas Flow (l/hr) = 100
		Desolvation Gas Flow (l/hr) = 750

Figure 2: PFDoA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 μ l (500 ng/ml PFDoA)

MS Parameters

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Collision Gas (mbar) = 3.39e-3
 Collision Energy (eV) = 13

Flow: 300 μ l/min

17 H 0821



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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

PFNA ✓

LOT NUMBER:

PFNA0916

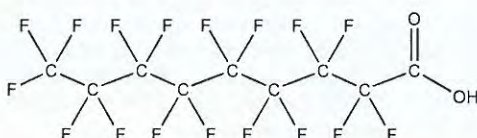
COMPOUND:

Perfluoro-n-nonanoic acid

STRUCTURE:

CAS #:

375-95-1



MOLECULAR FORMULA:

$C_9H_{17}O_2$

MOLECULAR WEIGHT:

464.08

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

SOLVENT(S):

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

09/30/2016

EXPIRY DATE: (mm/dd/yyyy)

09/30/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.1% of perfluoro-n-octanoic acid (PFOA) and < 0.1% of perfluoro-n-heptanoic acid (PFHpA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 10/11/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

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where x is expressed as a relative standard uncertainty of the individual parameter.

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TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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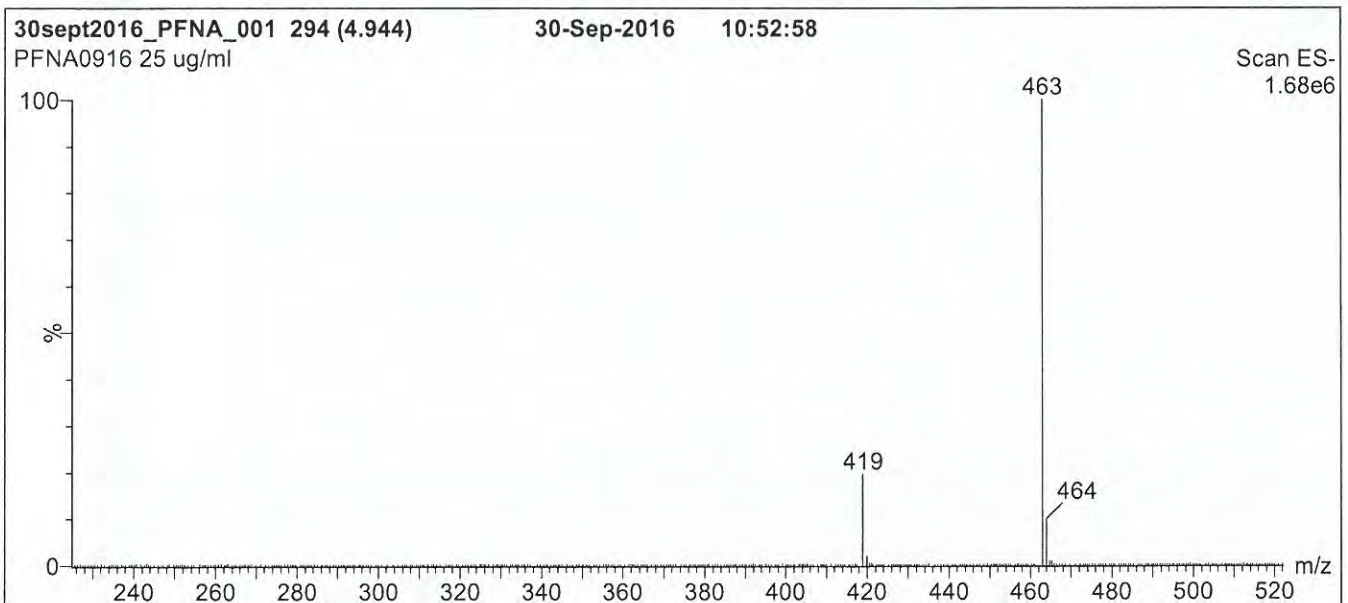
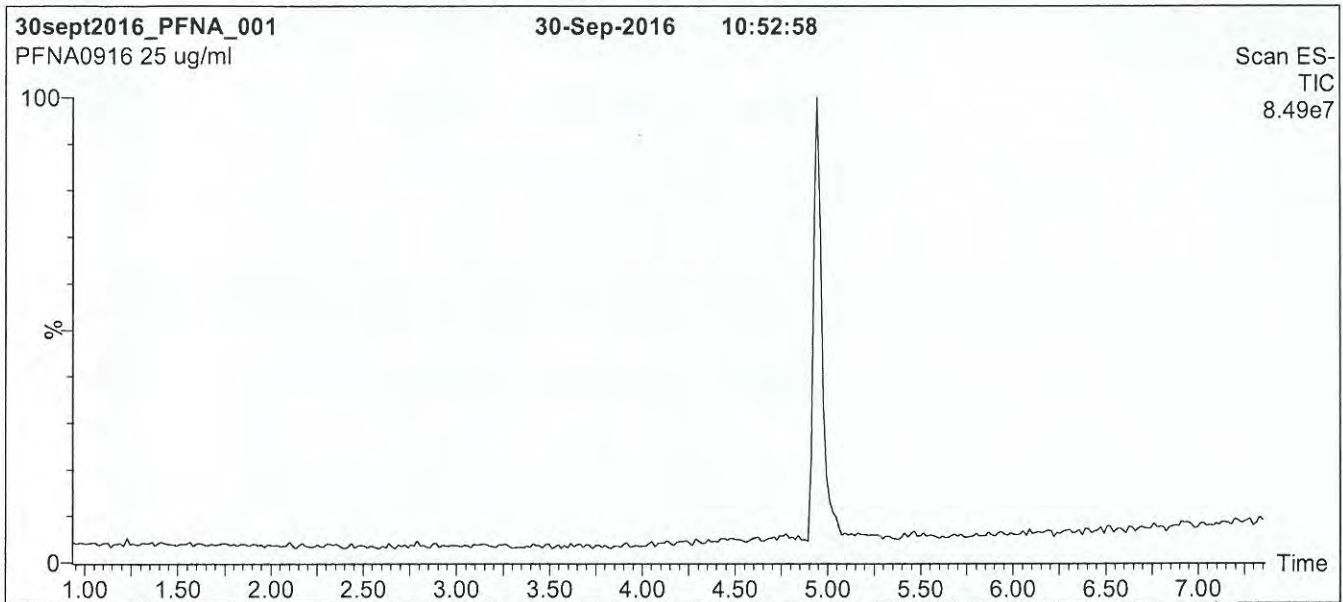
QUALITY MANAGEMENT:

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Figure 1: PFNA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for 1.5 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

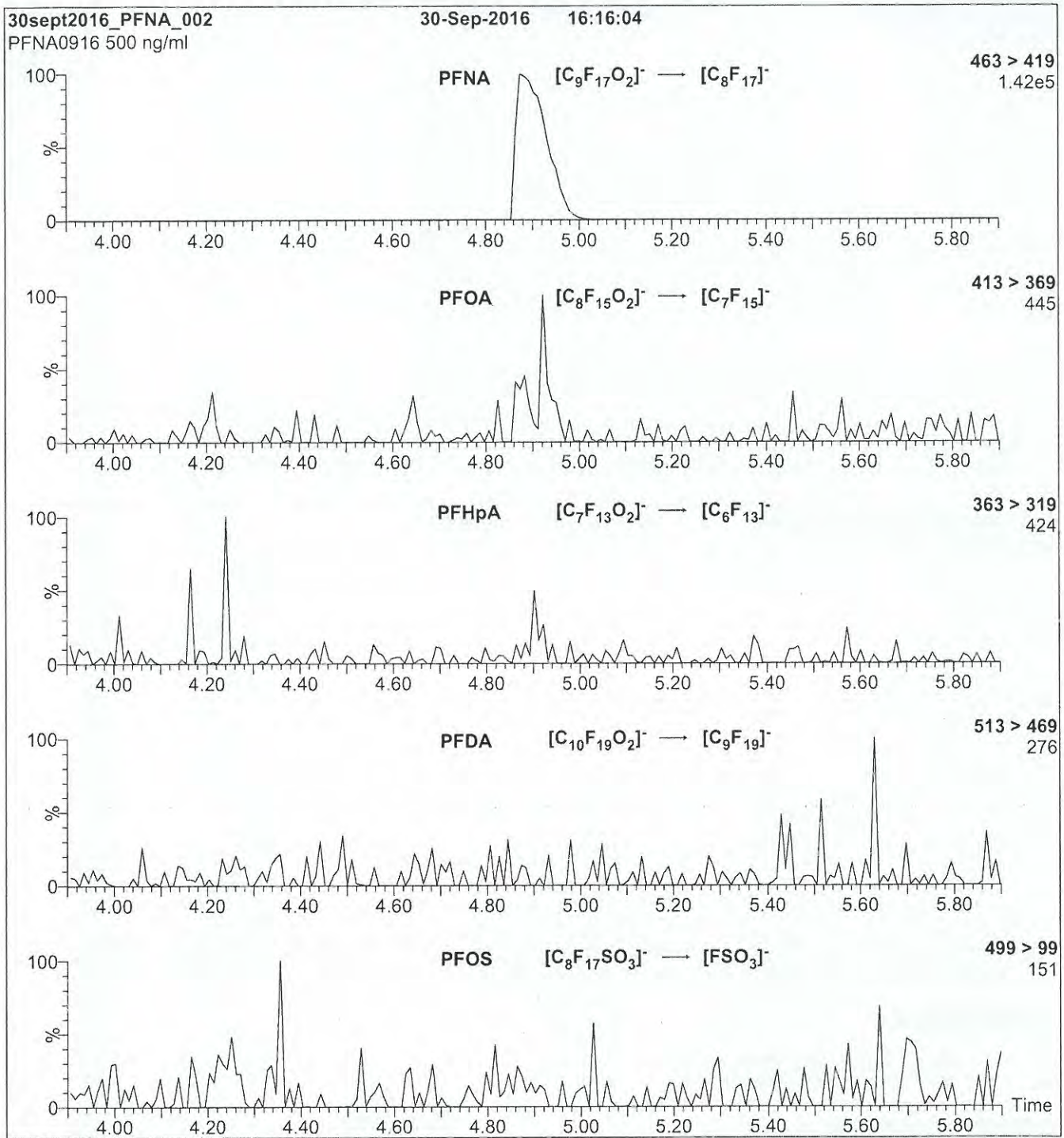
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

Figure 2: PFNA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 μ l (500 ng/ml PFNA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.24e-3
 Collision Energy (eV) = 11

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WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

PFPeA ✓

LOT NUMBER:

PFPeA0617

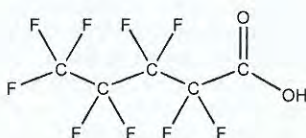
COMPOUND:

Perfluoro-n-pentanoic acid

STRUCTURE:

CAS #:

2706-90-3



MOLECULAR FORMULA:

C₅HF₉O₂

MOLECULAR WEIGHT:

264.05

CONCENTRATION:

50 ± 2.5 µg/ml

SOLVENT(S):

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

06/14/2017

EXPIRY DATE: (mm/dd/yyyy)

06/14/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.3% of Perfluoro-n-heptanoic acid (PFHpA) and ~ 0.2% of C₅H₂F₈O₂ (hydrido - derivative) as measured by ¹⁹F NMR.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim, General Manager

Date:

06/16/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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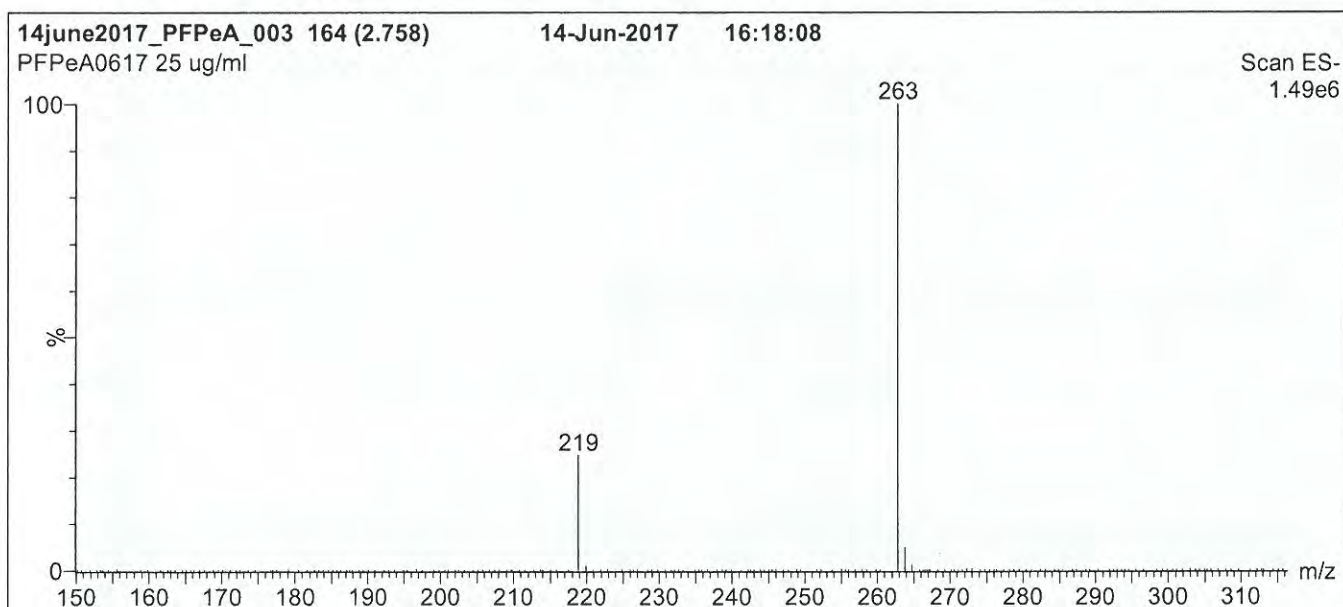
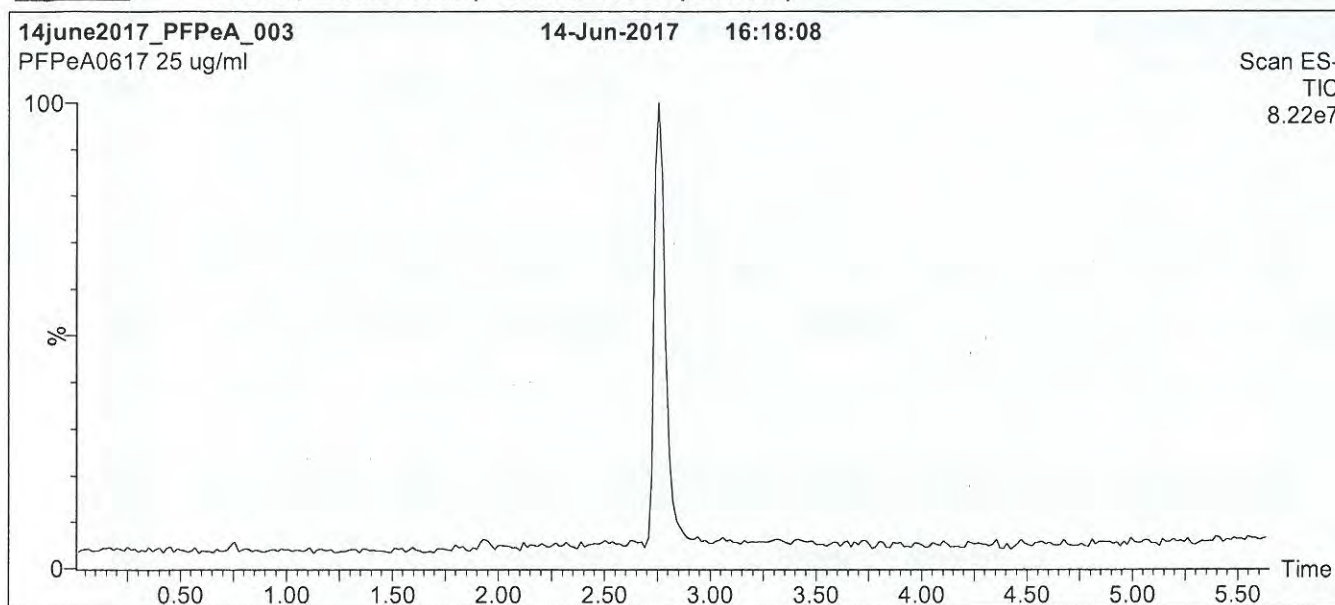
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Figure 1: PFPeA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

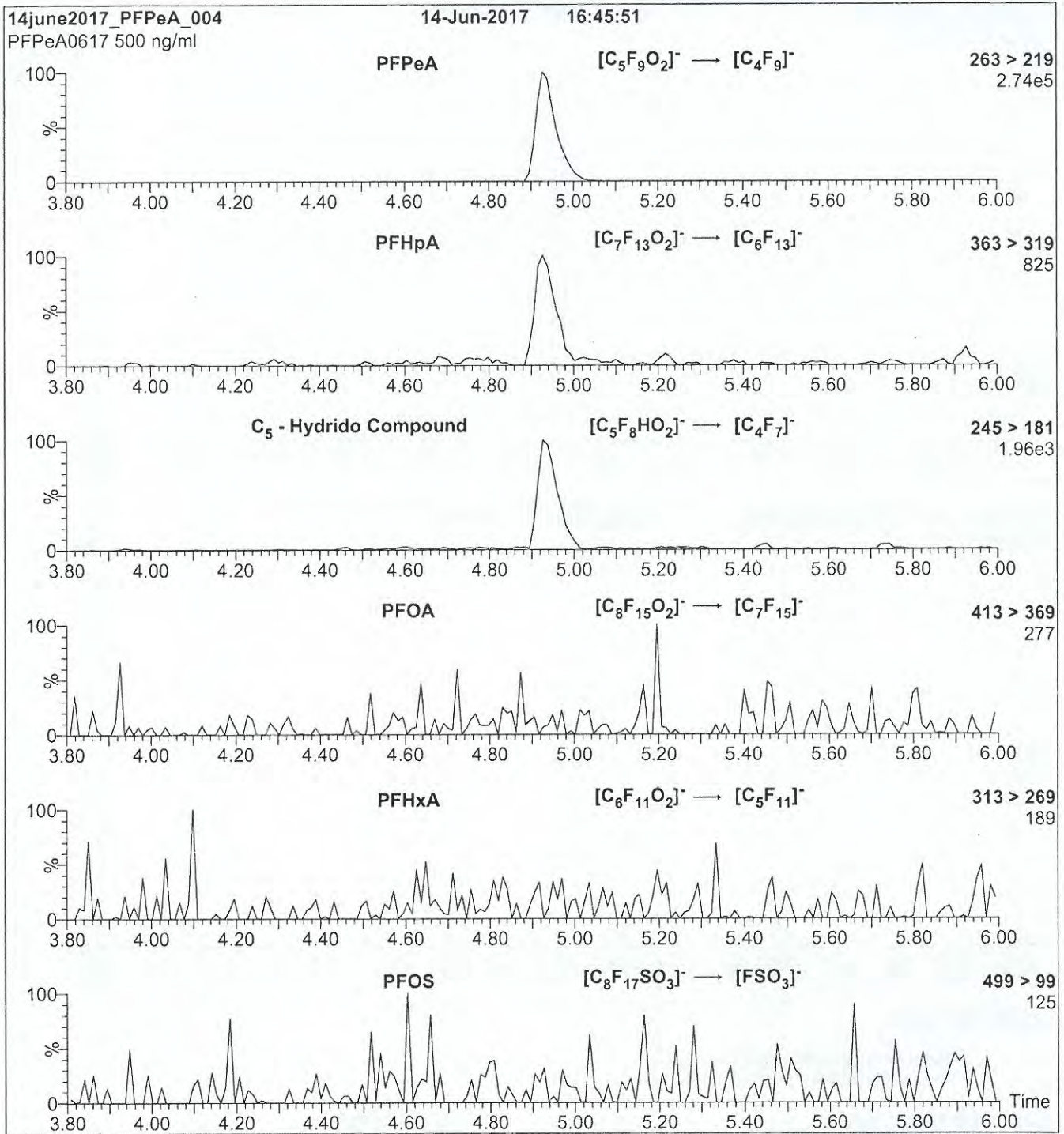
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

Figure 2: PFPeA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 μ l (500 ng/ml PFPeA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.62e-3
 Collision Energy (eV) = 9

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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

PFOA ✓

LOT NUMBER:

PFOA0217

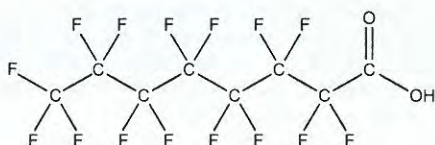
COMPOUND:

Perfluoro-n-octanoic acid

STRUCTURE:

CAS #:

335-67-1



MOLECULAR FORMULA:

$C_8HF_{15}O_2$

MOLECULAR WEIGHT:

414.07

CONCENTRATION:

$50 \pm 2.5 \mu\text{g/ml}$

SOLVENT(S):

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

02/17/2017

EXPIRY DATE: (mm/dd/yyyy)

02/17/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date:

02/22/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

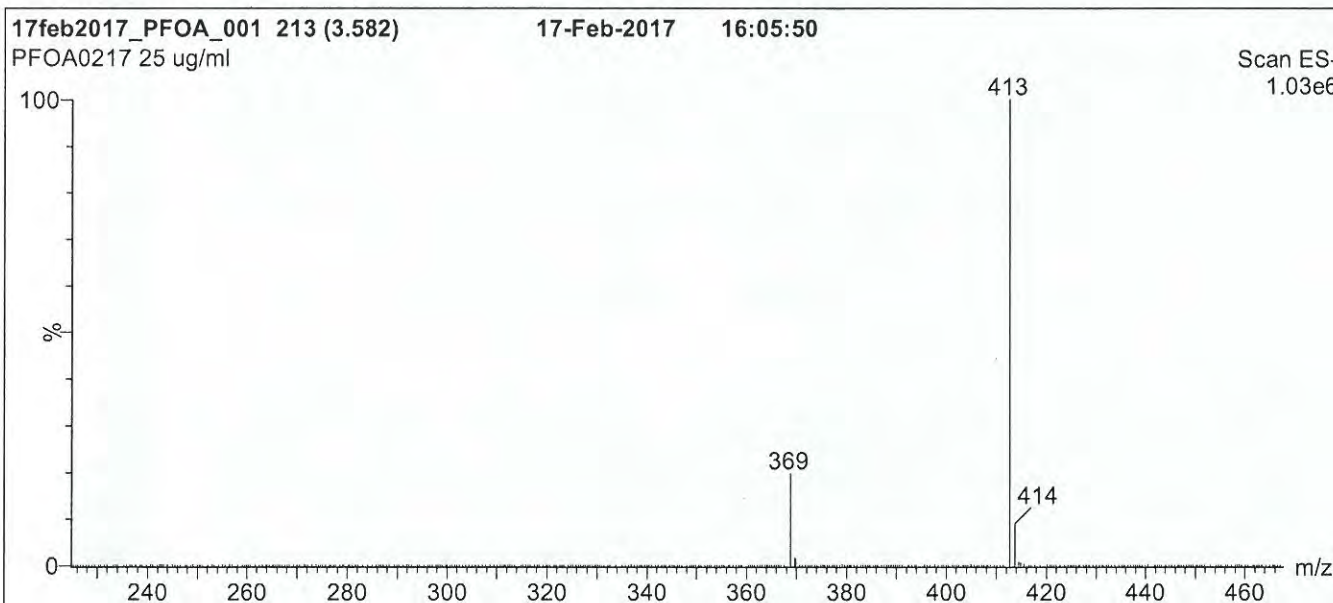
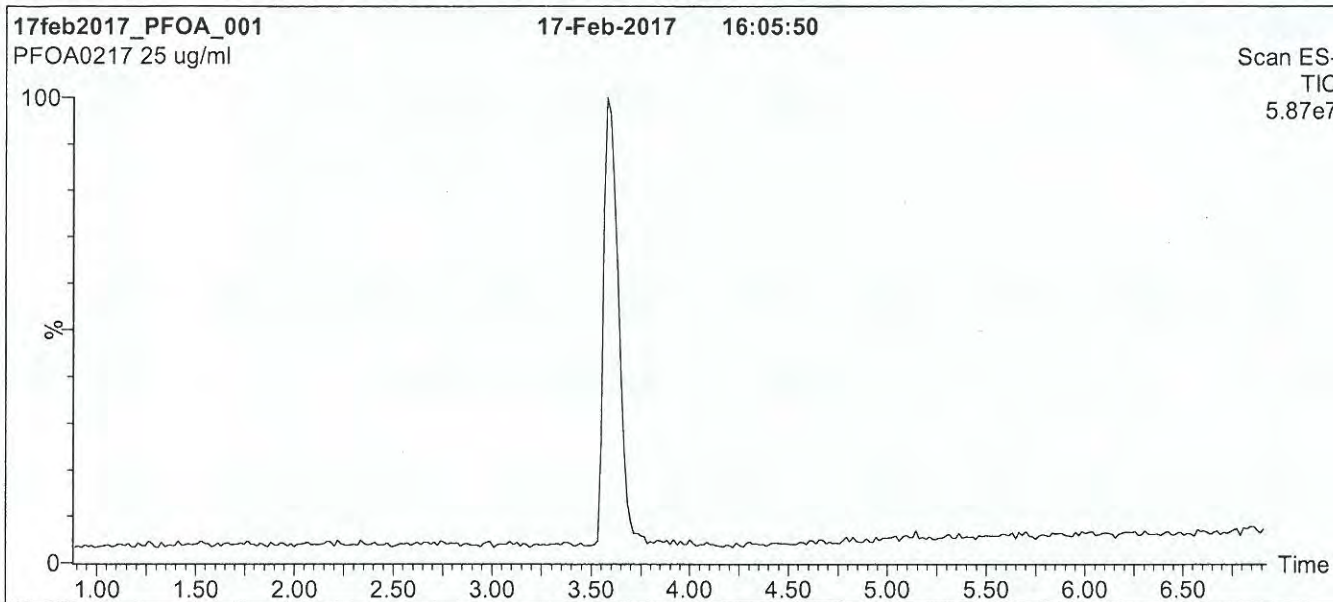
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: PFOA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 8 min and hold for
 1 min before returning to initial conditions in 0.5 min.
 Time: 10 min

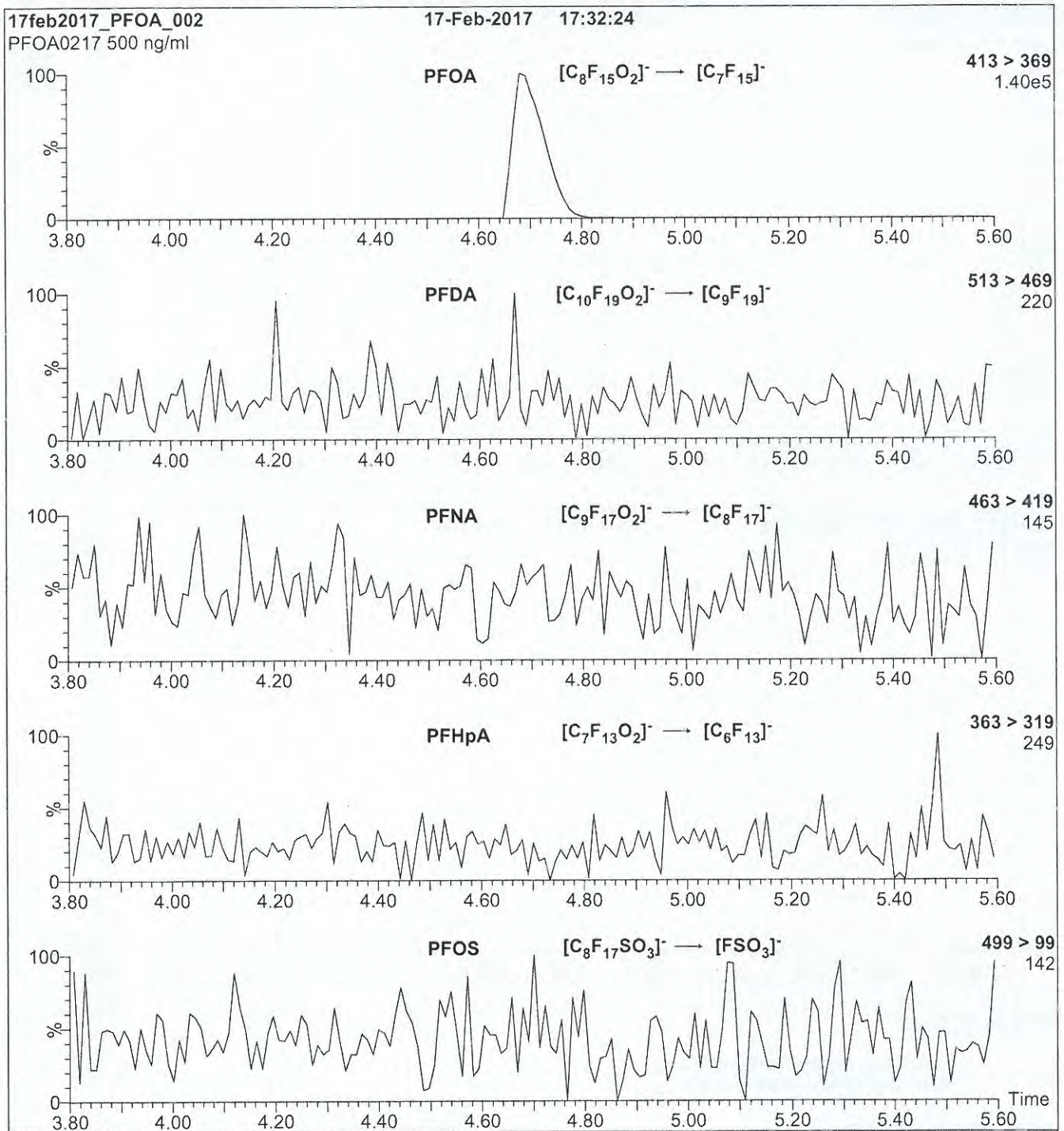
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 100
 Desolvation Gas Flow (l/hr) = 750

Figure 2: PFOA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFOA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 10

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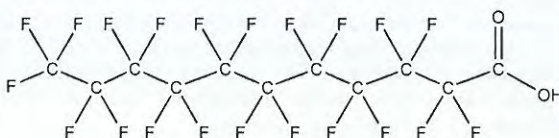


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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFUdA ✓ **LOT NUMBER:** PFUdA1016
COMPOUND: Perfluoro-n-undecanoic acid

STRUCTURE: **CAS #:** 2058-94-8



MOLECULAR FORMULA: C₁₁H_{F₂₁}O₂ **MOLECULAR WEIGHT:** 564.09
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 10/18/2016
EXPIRY DATE: (mm/dd/yyyy) 10/18/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim

Date: 10/19/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

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where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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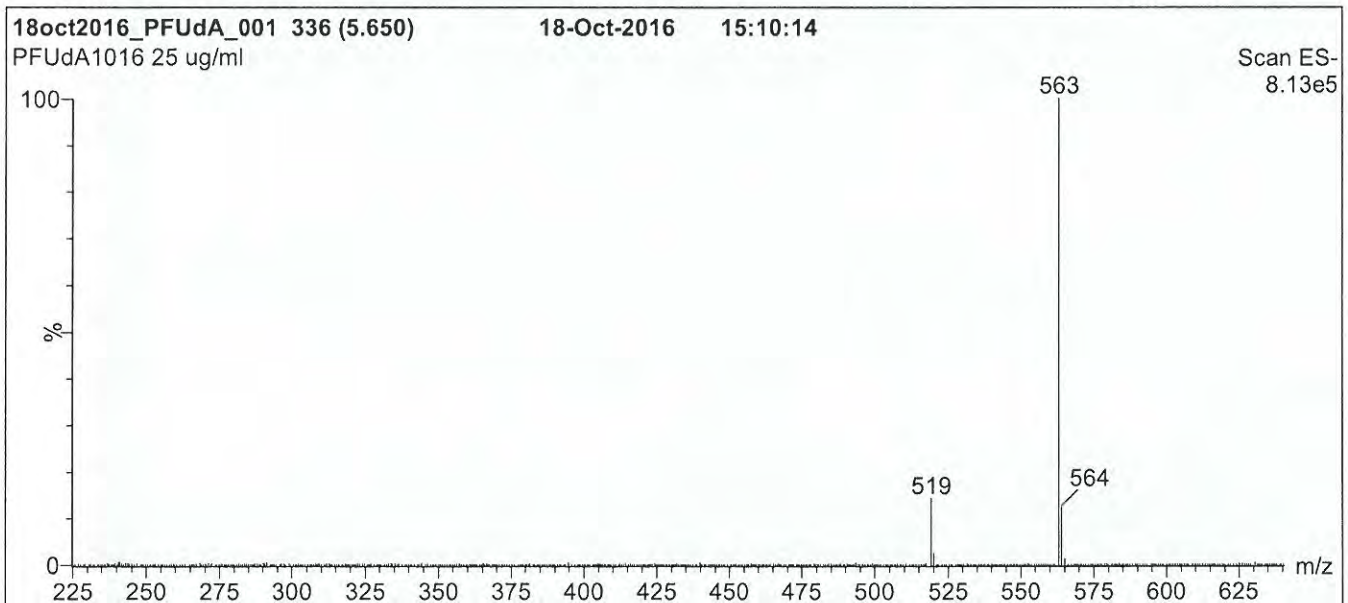
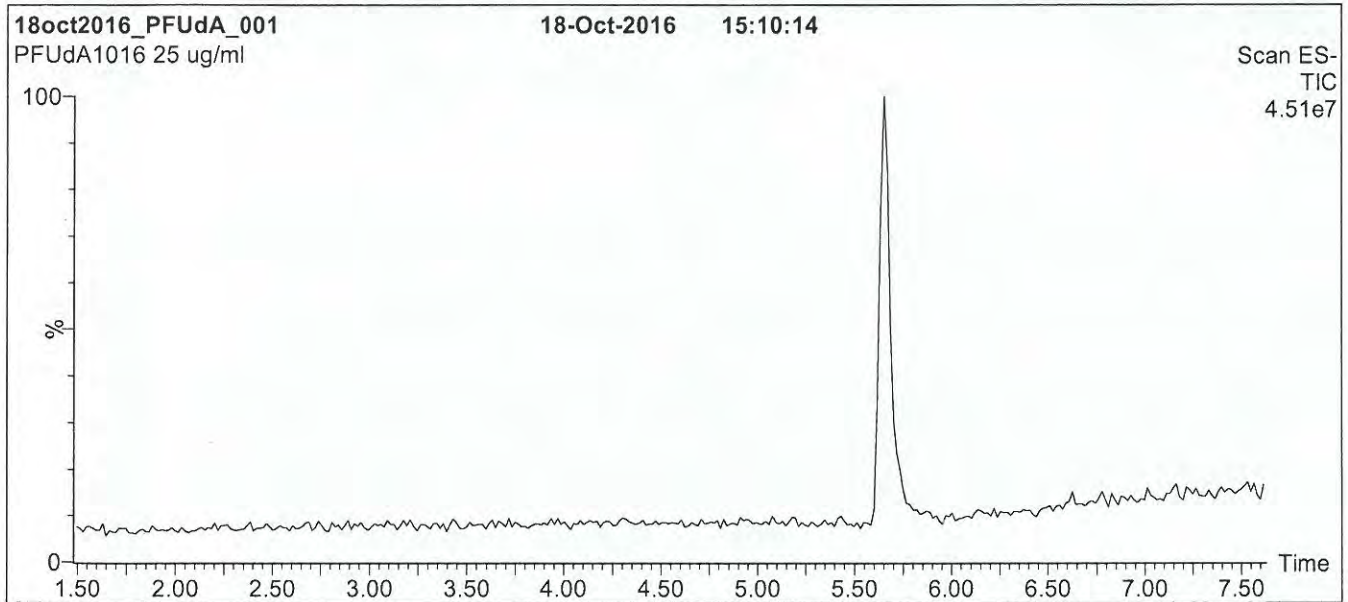
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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Figure 1: PFUdA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 55% (80:20 MeOH:ACN) / 45% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for 2 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

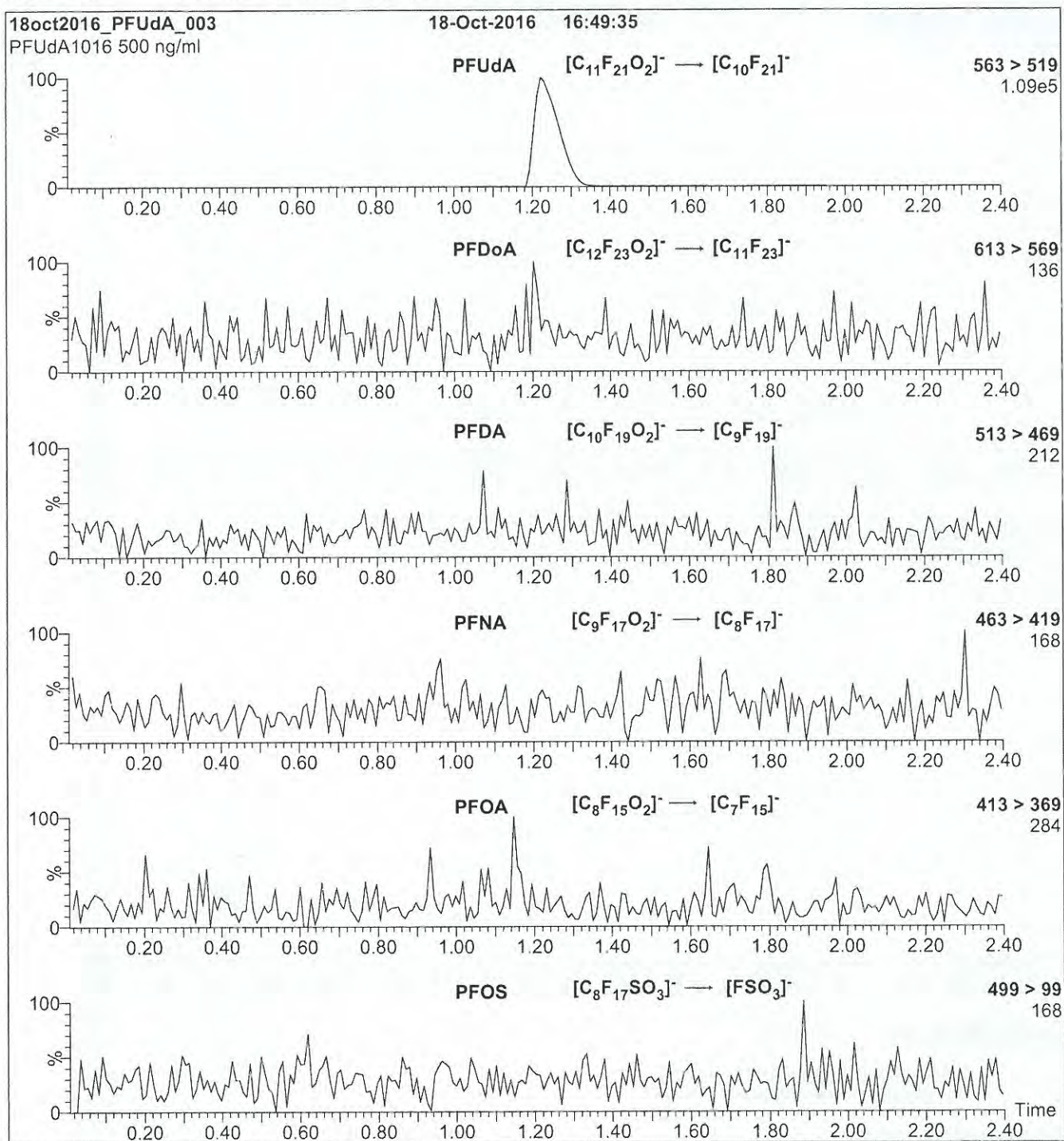
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 65
 Desolvation Gas Flow (l/hr) = 750

Figure 2: PFUdA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFUdA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.24e-3
Collision Energy (eV) = 11

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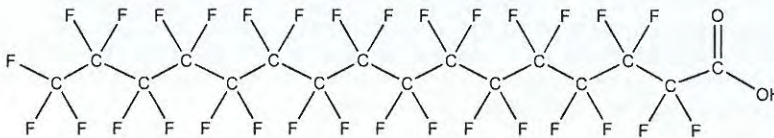
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CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFHxDA ✓
COMPOUND: Perfluoro-n-hexadecanoic acid

LOT NUMBER: PFHxDA0516

STRUCTURE: **CAS #:** 67905-19-5



MOLECULAR FORMULA: C₁₆HF₃₁O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 814.13
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/25/2016
EXPIRY DATE: (mm/dd/yyyy) 05/25/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

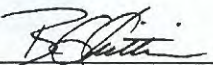
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.4% of PFODA.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim

Date: 05/27/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

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HOMOGENEITY:

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UNCERTAINTY:

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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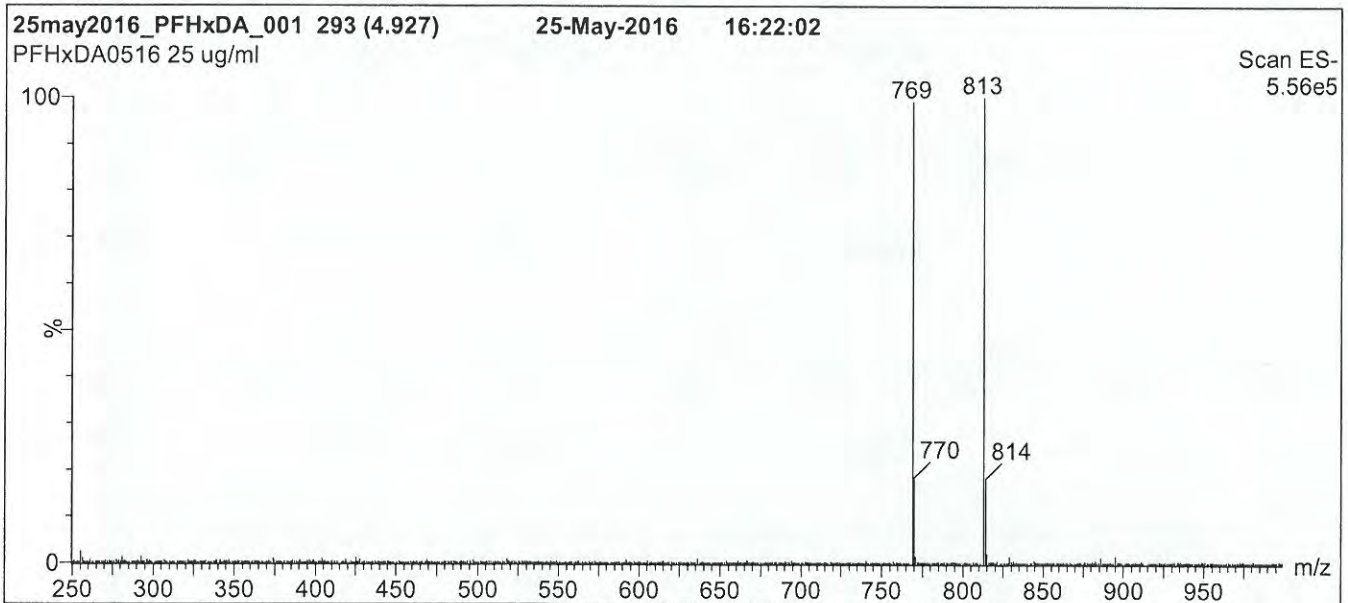
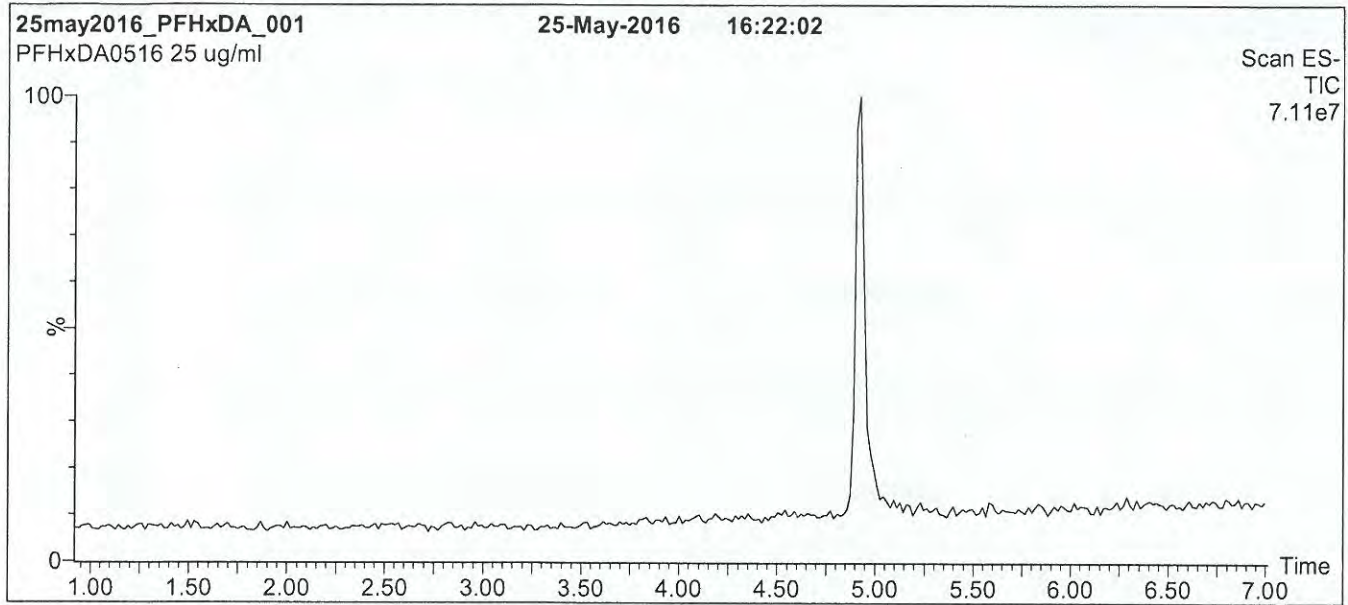
QUALITY MANAGEMENT:

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For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: PFHxDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

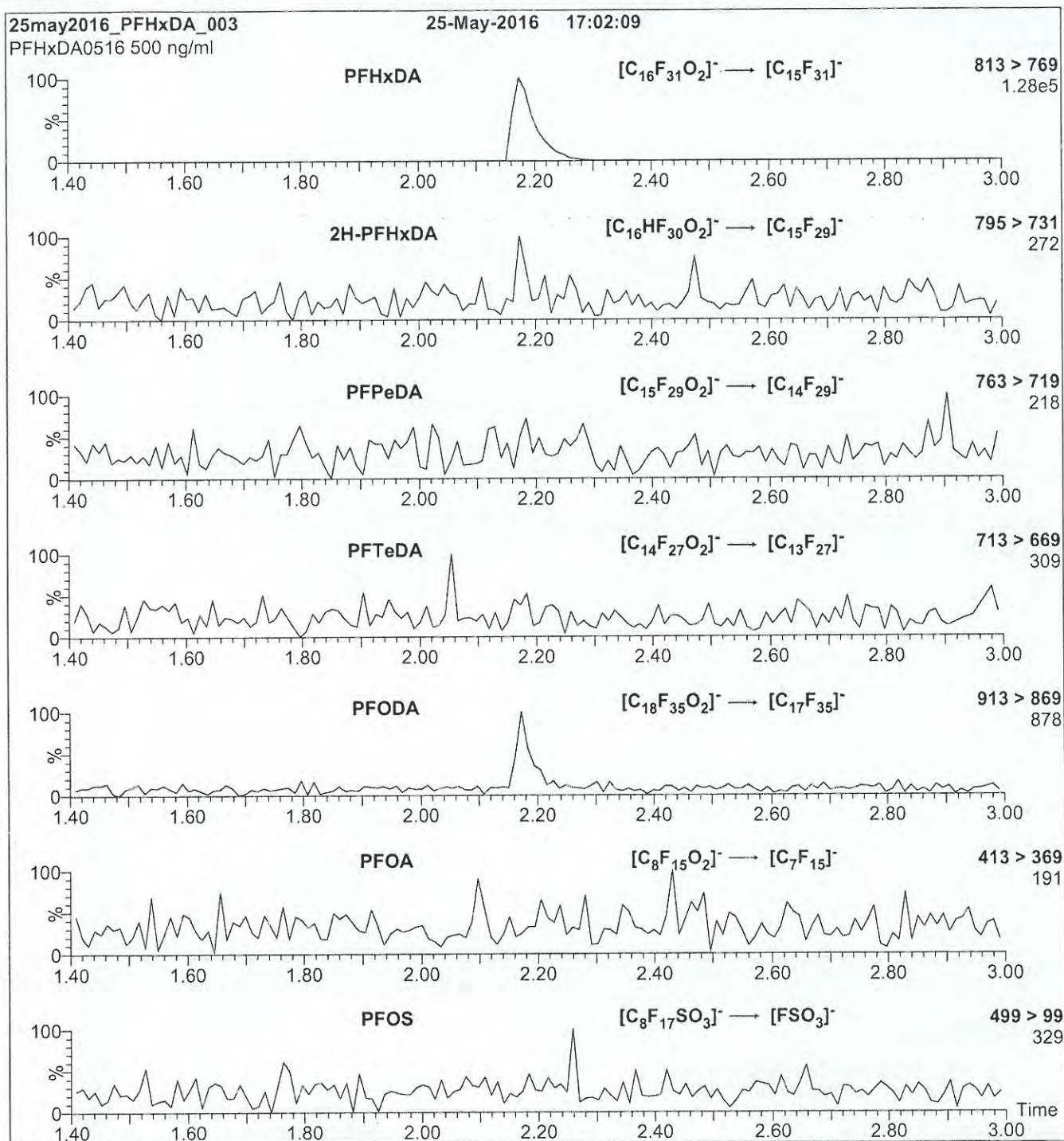
Mobile phase: Gradient
 Start: 70% (80:20 MeOH:ACN) / 30% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 95% organic over 6 min and hold for 2.5 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (250 - 1250 amu)
 Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 25.00
 Cone Gas Flow (l/hr) = 60
 Desolvation Gas Flow (l/hr) = 750

Figure 2: PFHxDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 μ l (500 ng/ml PFHxDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.66e-3
 Collision Energy (eV) = 15

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 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION
PRODUCT CODE:

PFHpA ✓

LOT NUMBER:

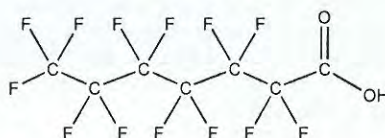
PFHpA1216

COMPOUND:

Perfluoro-n-heptanoic acid

STRUCTURE:**CAS #:**

375-85-9

**MOLECULAR FORMULA:** $C_7HF_{13}O_2$ **MOLECULAR WEIGHT:**

364.06

CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):**

Methanol

Water (<1%)

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

12/02/2016

EXPIRY DATE: (mm/dd/yyyy)

12/02/2021

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim

Date:

 12/12/2016
 (mm/dd/yyyy)

 Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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LIMITED WARRANTY:

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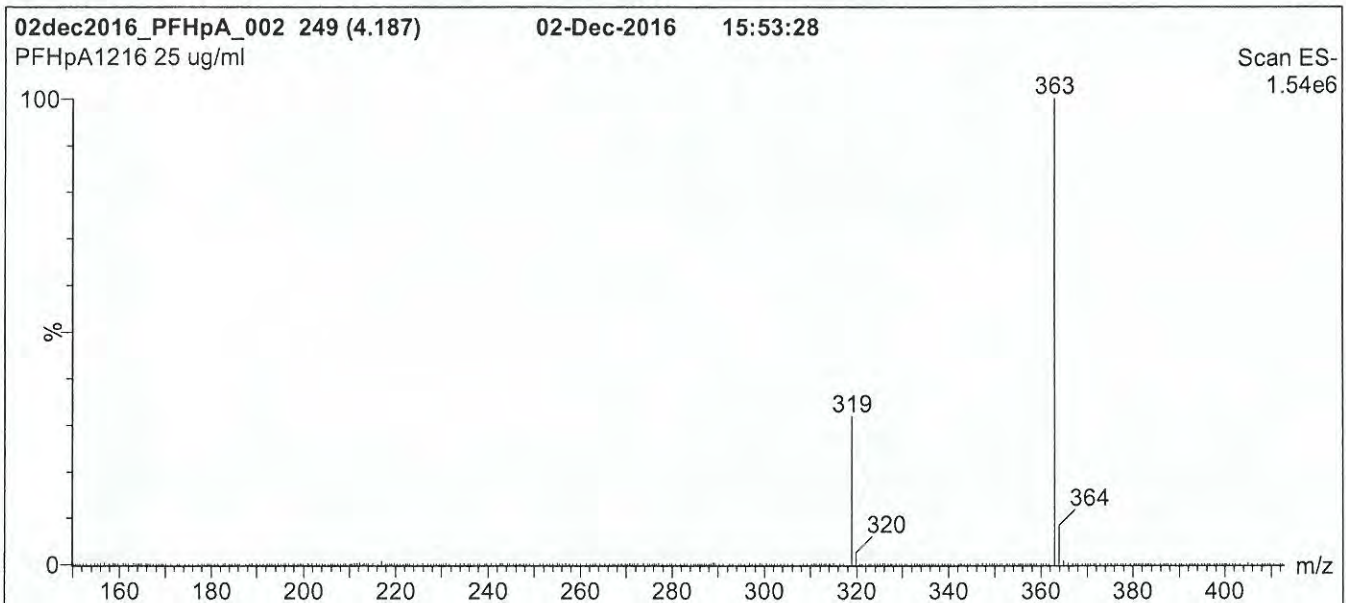
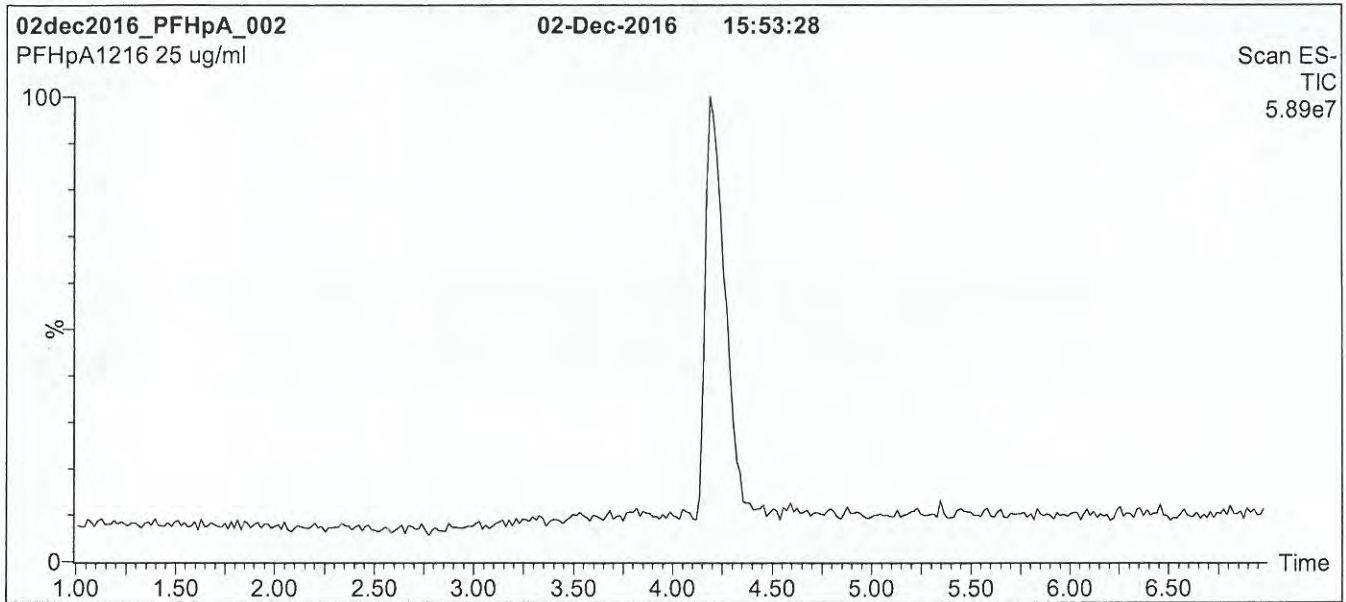
QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 50% (80:20 MeOH:ACN) / 50% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7.5 min and hold for
 1.5 min before returning to initial conditions in 0.5 min.
 Time: 10 min

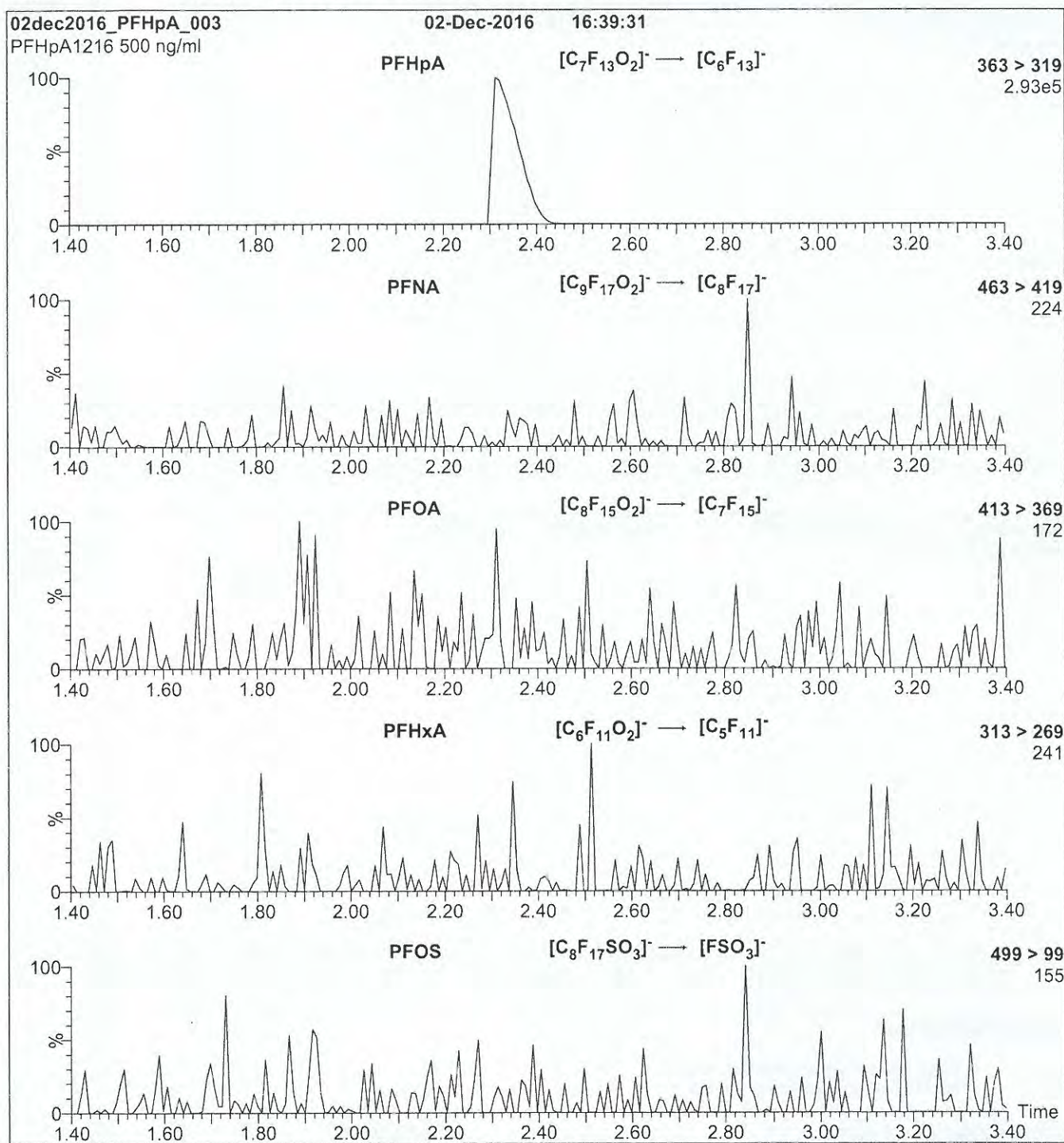
Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml PFHpA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.50e-3
Collision Energy (eV) = 11

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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

N-EtFOSA-M ✓

LOT NUMBER:

NEtFOSA0717M

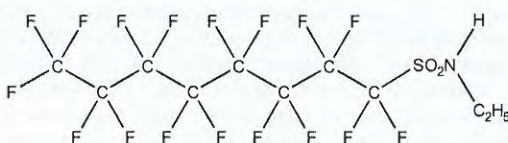
COMPOUND:

N-ethylperfluoro-1-octanesulfonamide

STRUCTURE:

CAS #:

4151-50-2



MOLECULAR FORMULA:

C₁₀H₈F₁₇NO₂S

MOLECULAR WEIGHT:

527.20

CONCENTRATION:

50 ± 2.5 µg/ml

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

07/05/2017

EXPIRY DATE: (mm/dd/yyyy)

07/05/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim, General Manager

Date:

07/18/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

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HOMOGENEITY:

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UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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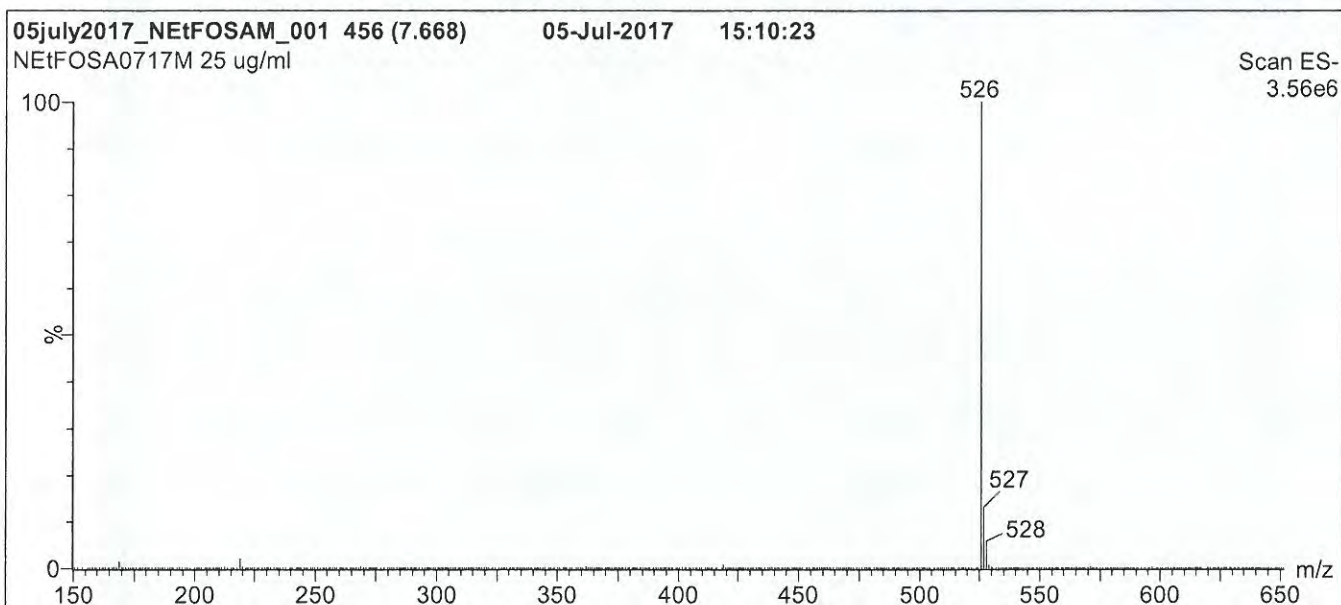
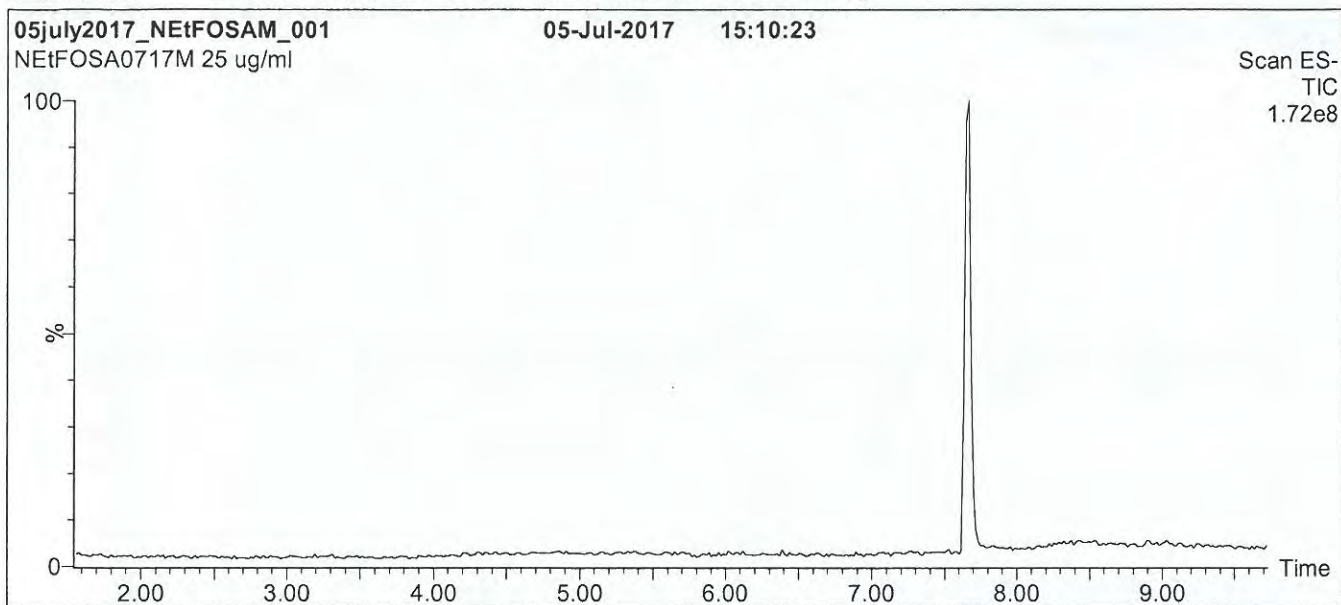
QUALITY MANAGEMENT:

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Figure 1: N-EtFOSA-M; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 45% H₂O / 55% (80:20 MeOH:ACN)
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7.5 min and hold for 1.5 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

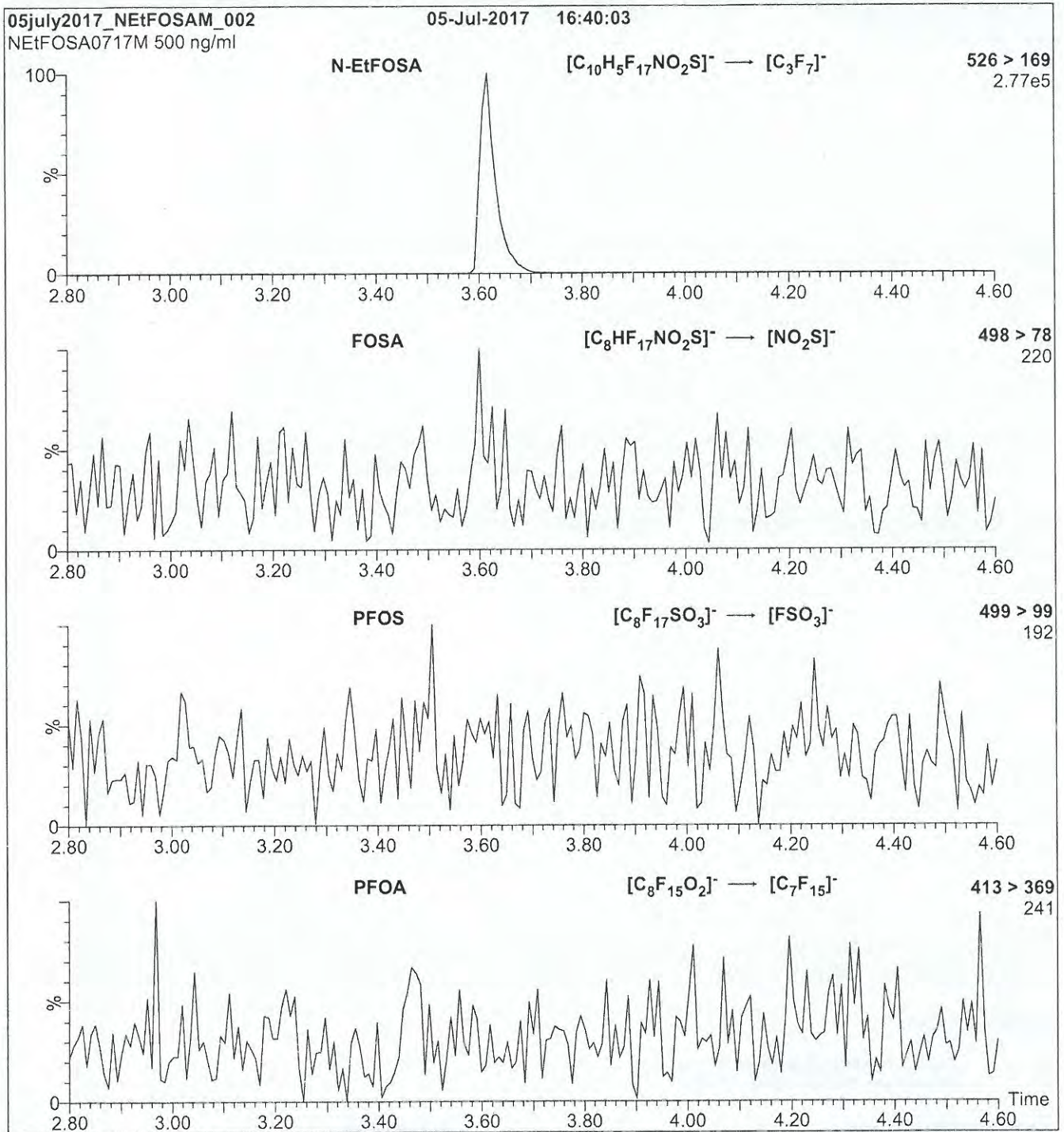
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.50
 Cone Voltage (V) = 40.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

Figure 2: N-EtFOSA-M; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml N-EtFOSA-M)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 30

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LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE:

N-MeFOSA-M ✓

LOT NUMBER:

NMeFOSA0717M

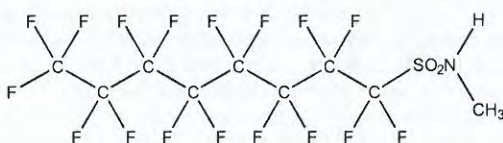
COMPOUND:

N-methylperfluoro-1-octanesulfonamide

STRUCTURE:

CAS #:

31506-32-8



MOLECULAR FORMULA:

C₉H₄F₁₇NO₂S

MOLECULAR WEIGHT:

513.17

CONCENTRATION:

50 ± 2.5 µg/ml

SOLVENT(S):

Methanol

CHEMICAL PURITY:

>98%

LAST TESTED: (mm/dd/yyyy)

07/05/2017

EXPIRY DATE: (mm/dd/yyyy)

07/05/2022

RECOMMENDED STORAGE:

Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

B.G. Chittim, General Manager

Date:

07/10/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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where x is expressed as a relative standard uncertainty of the individual parameter.

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LIMITED WARRANTY:

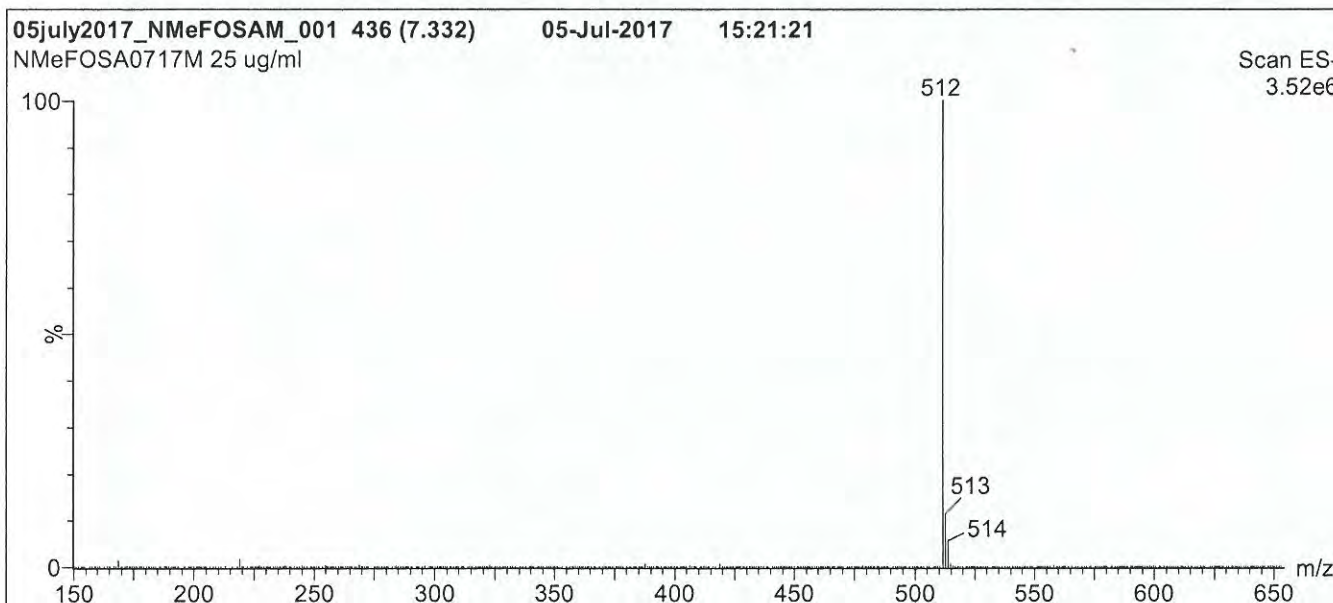
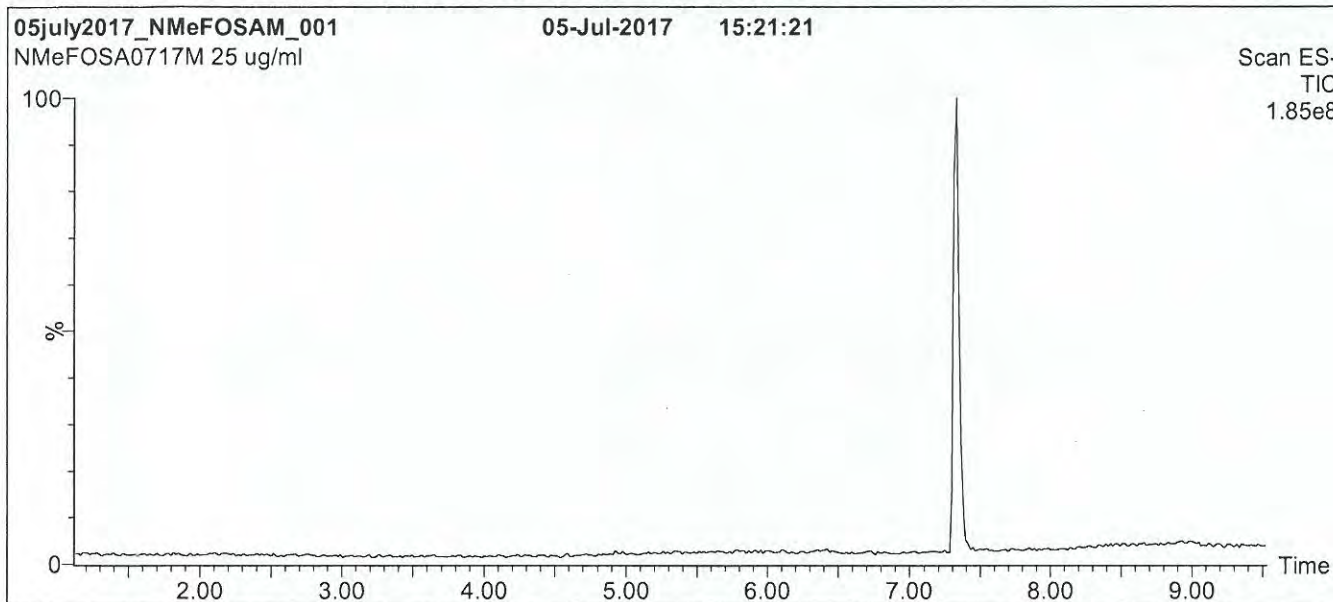
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Figure 1: N-MeFOSA-M; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 45% H₂O / 55% (80:20 MeOH:ACN)
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7.5 min and hold for
 1.5 min before returning to initial conditions in 0.5 min.
 Time: 10 min

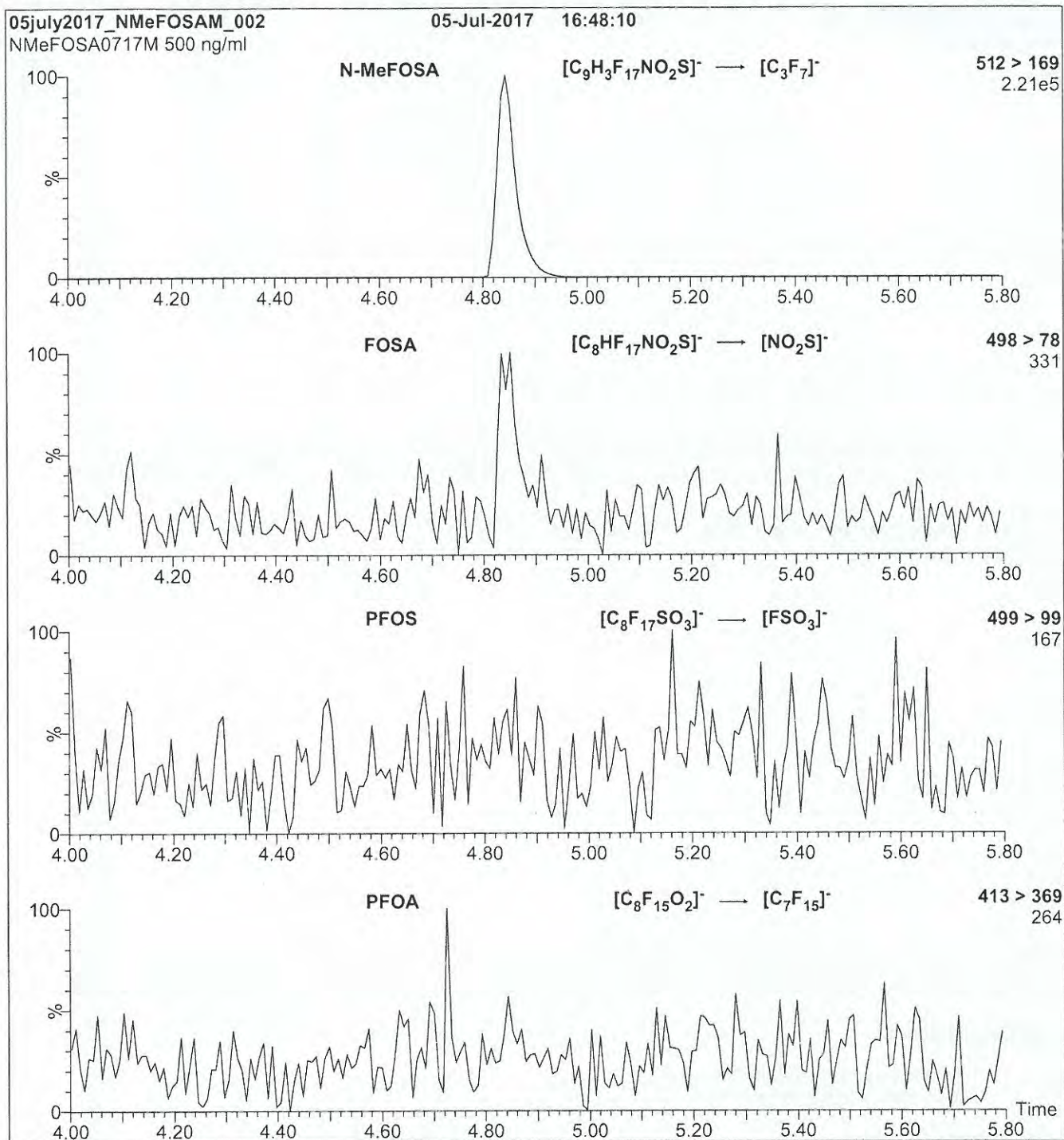
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 2.50
 Cone Voltage (V) = 40.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

Figure 2: N-MeFOSA-M; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml N-MeFOSA-M)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 30

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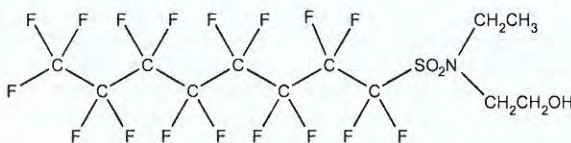


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: N-EtFOSE-M ✓ **LOT NUMBER:** NEtFOSE0417M
COMPOUND: 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol

STRUCTURE: **CAS #:** 1691-99-2



MOLECULAR FORMULA: C₁₂H₁₀F₁₇NO₃S **MOLECULAR WEIGHT:** 571.25
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/24/2017 (HRGC/LRMS)
 04/21/2017 (LC/MS)
EXPIRY DATE: (mm/dd/yyyy) 04/24/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place


DOCUMENTATION/ DATA ATTACHED:

Figure 1: HRGC/LRMS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS Data (TIC and Mass Spectrum)
 Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- In order to see the molecular ion (adduct free), the LC mobile phase should be free of ammonium acetate buffer.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 04/26/2017
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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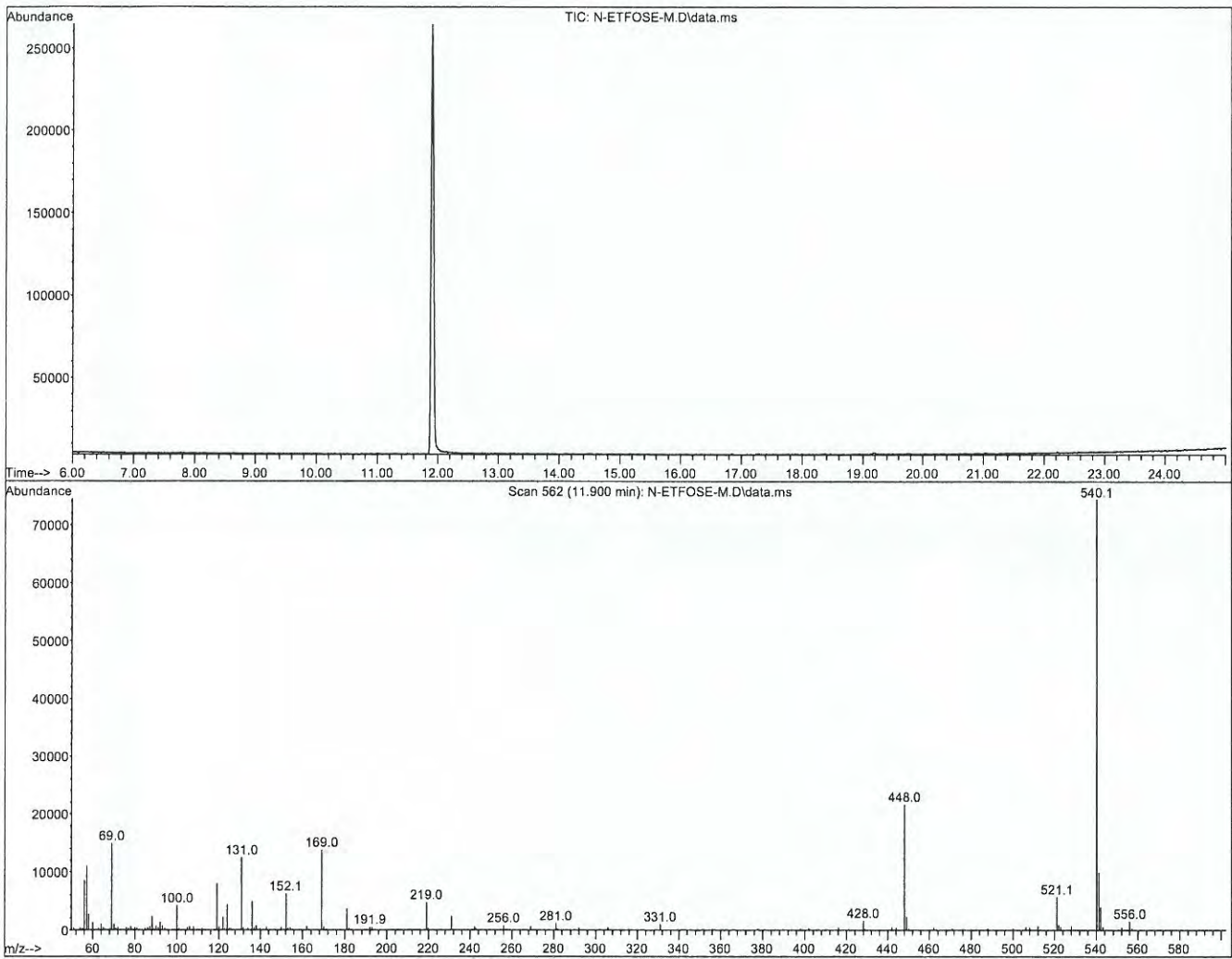
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Figure 1: N-ETFOSE-M; HRGC/LRMS Data (TIC and Mass Spectrum)



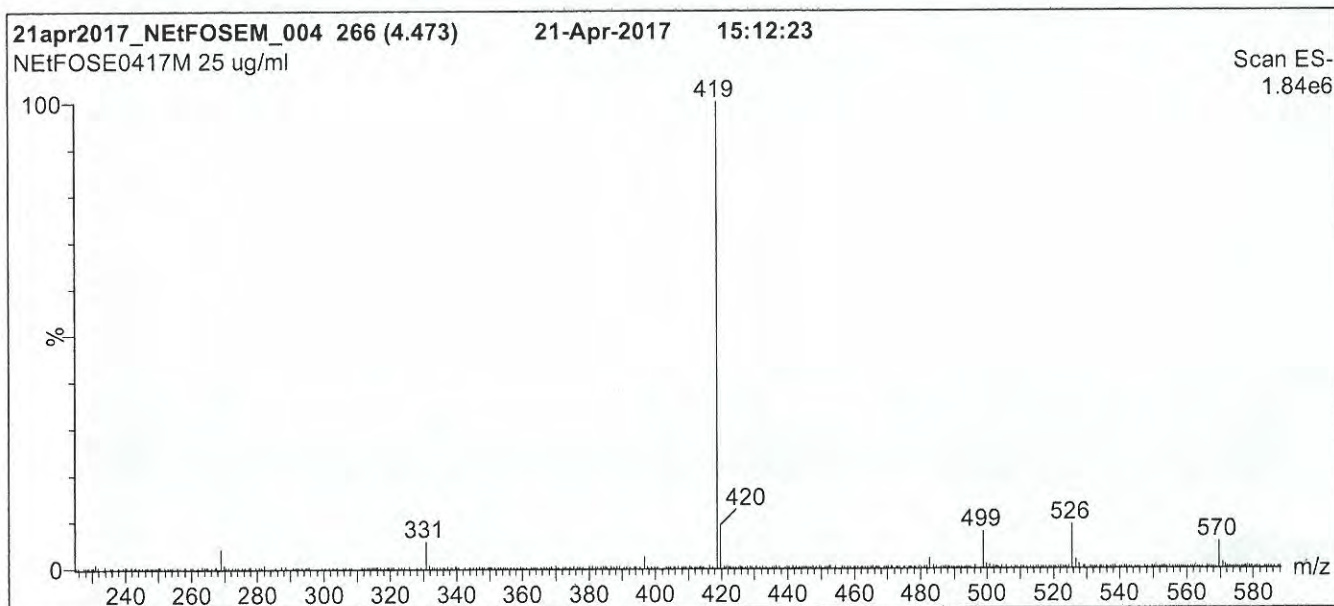
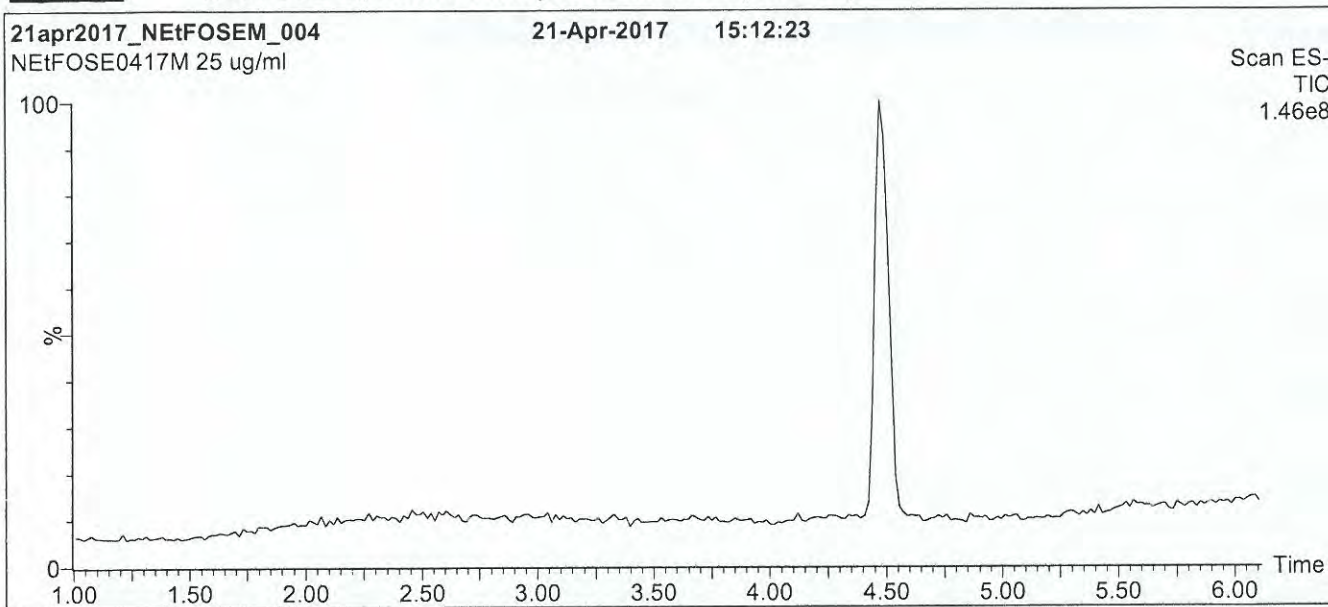
HRGC/LRMS:

Agilent 7890A (HRGC)
Agilent 5975C (LRMS)

Chromatographic Conditions:

Column: 30 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W
Injector: 250 °C (Splitless Injection)
Oven: 100 °C (5 min)
10 °C/min to 325 °C
325 °C (20 min)
Ionization: EI+
Detector: 250 °C
Full Scan (50-1000 amu)

Figure 2: N-EtFOSE-M; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 60% MeOH / 40% H₂O
 Ramp to 90% organic over 7 min and hold for 1.5 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

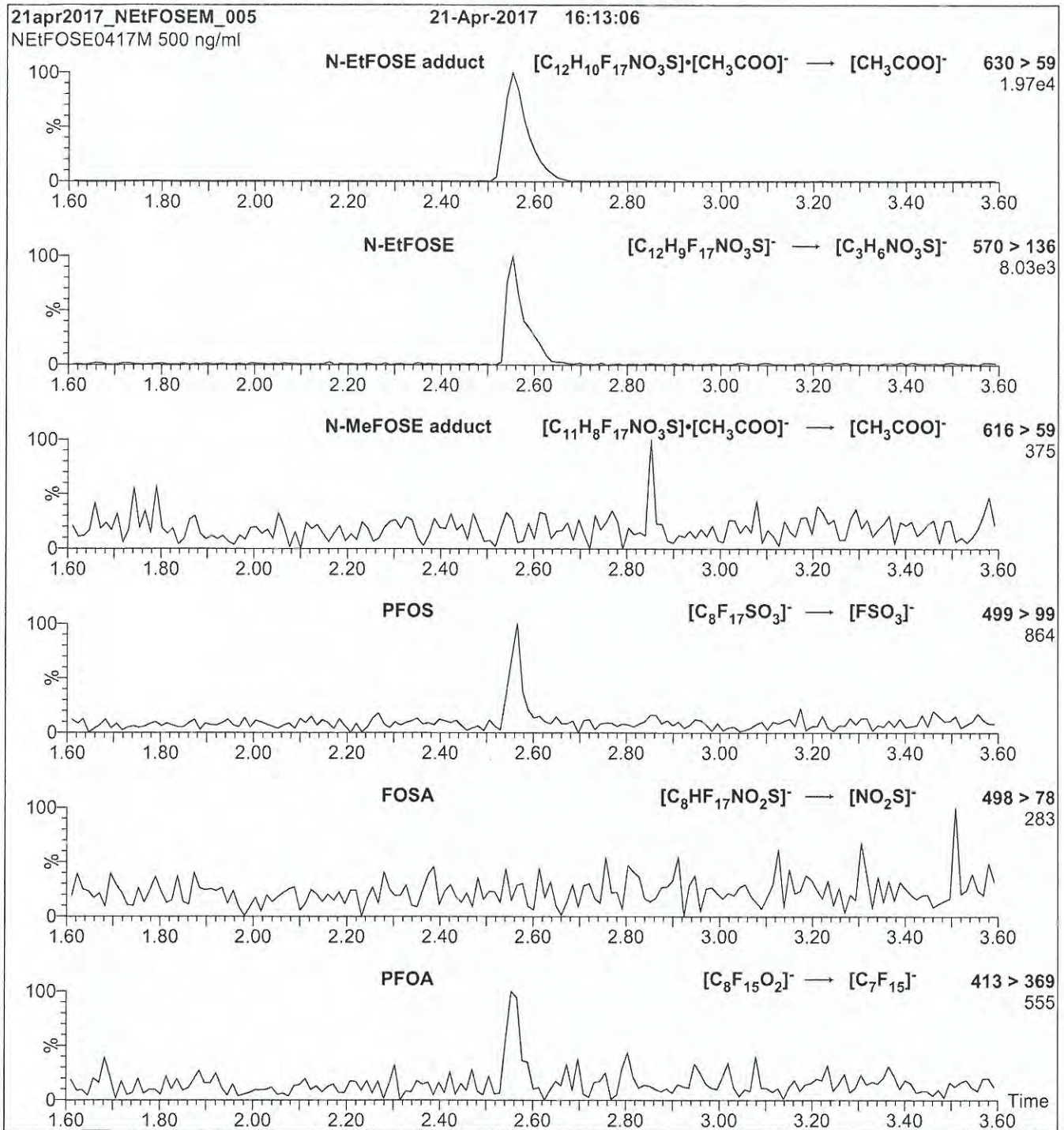
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 40.00
 Cone Gas Flow (l/hr) = 100
 Desolvation Gas Flow (l/hr) = 750

Figure 3: N-EtFOSE-M; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: Direct loop injection
10 μ l (500 ng/ml N-EtFOSE-M)

Mobile phase: Isocratic 80% MeOH / 20% H₂O

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 33

ST. ALBANS WATER

ST. ALBANS WATER

WORK ORDER NO. 1701953 (REVISED 11/15/03) ST. ALBANS WATER

ST. ALBANS WATER

ST. ALBANS WATER

ST. ALBANS WATER

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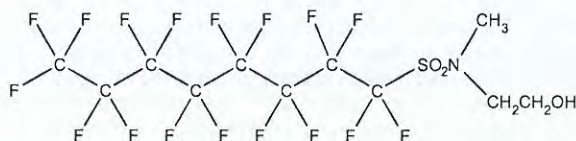


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: N-MeFOSE-M ✓ **LOT NUMBER:** NMeFOSE0417M
COMPOUND: 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol

STRUCTURE: **CAS #:** 24448-09-7



MOLECULAR FORMULA: C₁₁H₈F₁₇NO₃S **MOLECULAR WEIGHT:** 557.22
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/24/2017 (HRGC/LRMS)
 04/21/2017 (LC/MS)
EXPIRY DATE: (mm/dd/yyyy) 04/24/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: HRGC/LRMS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS Data (TIC and Mass Spectrum)
 Figure 3: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- In order to see the molecular ion (adduct free), the LC mobile phase should be free of ammonium acetate buffer.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager

Date: 05/05/2017
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

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Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

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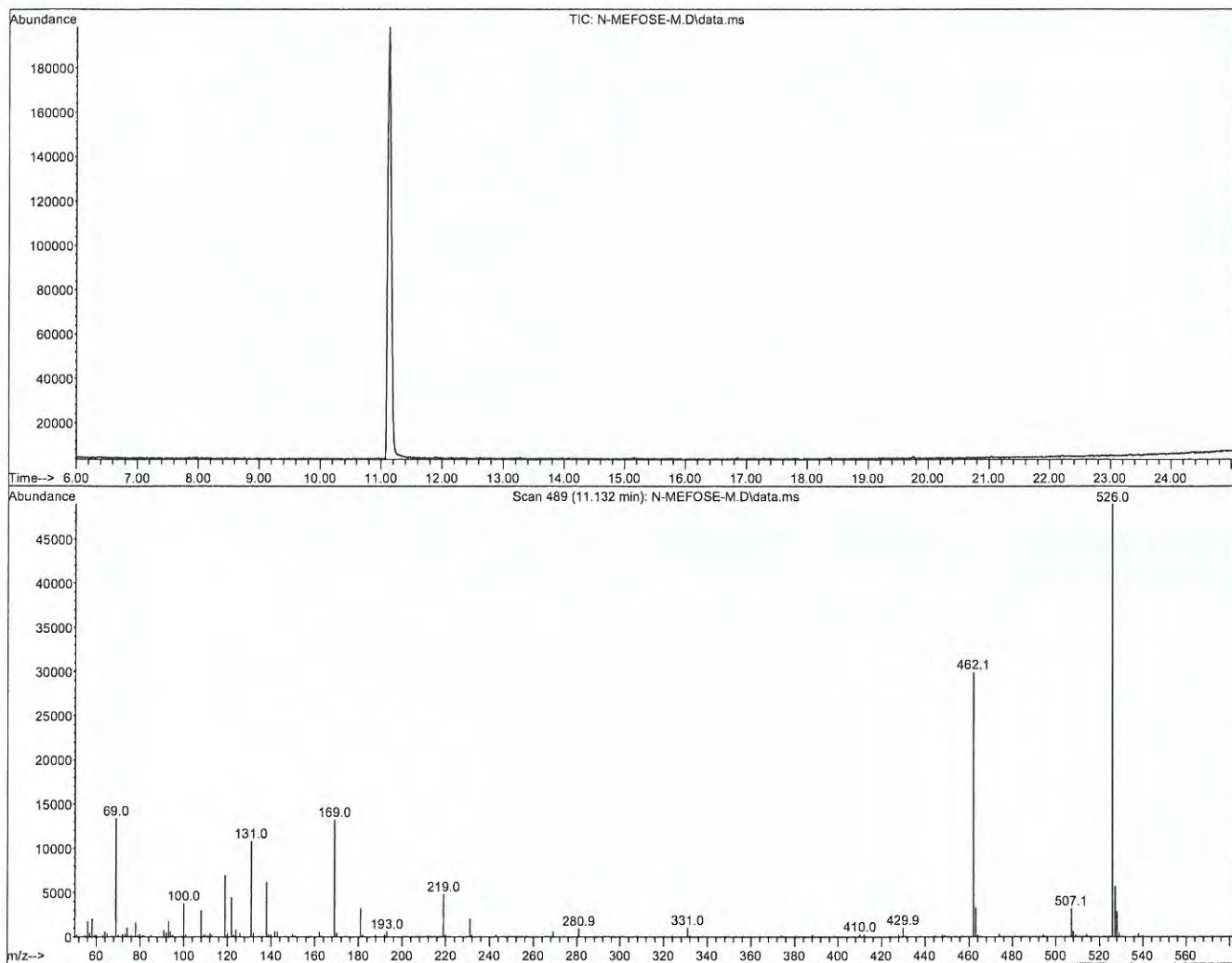
QUALITY MANAGEMENT:

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Figure 1: N-MeFOSE-M; HRGC/LRMS Data (TIC and Mass Spectrum)



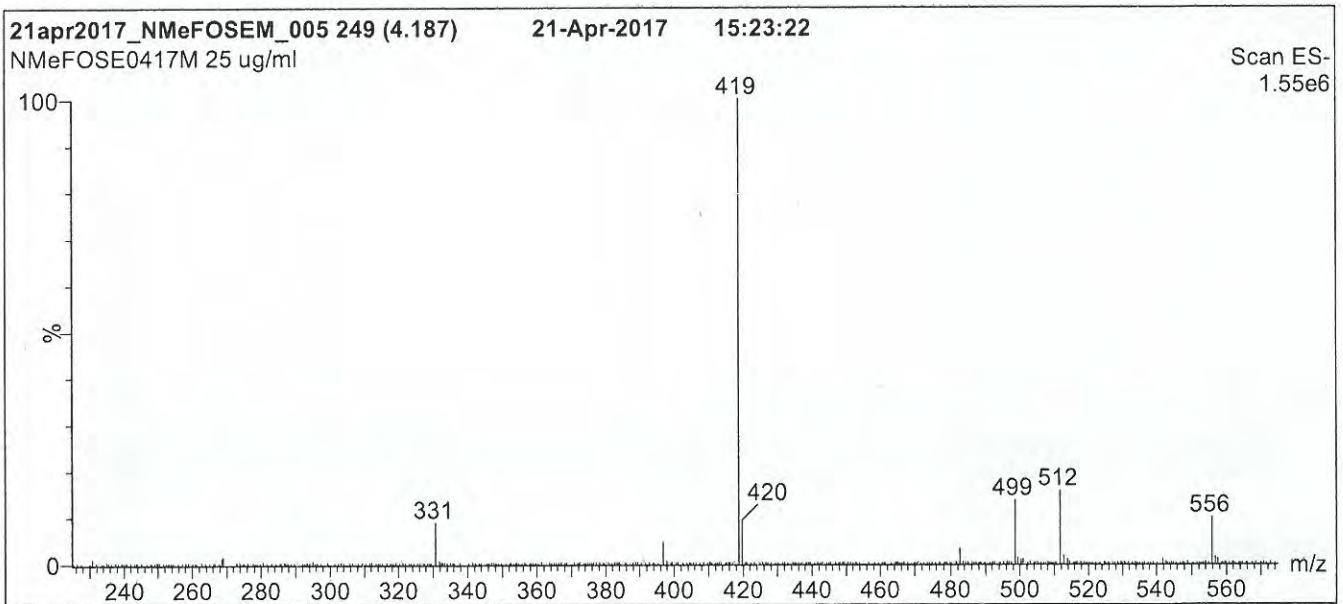
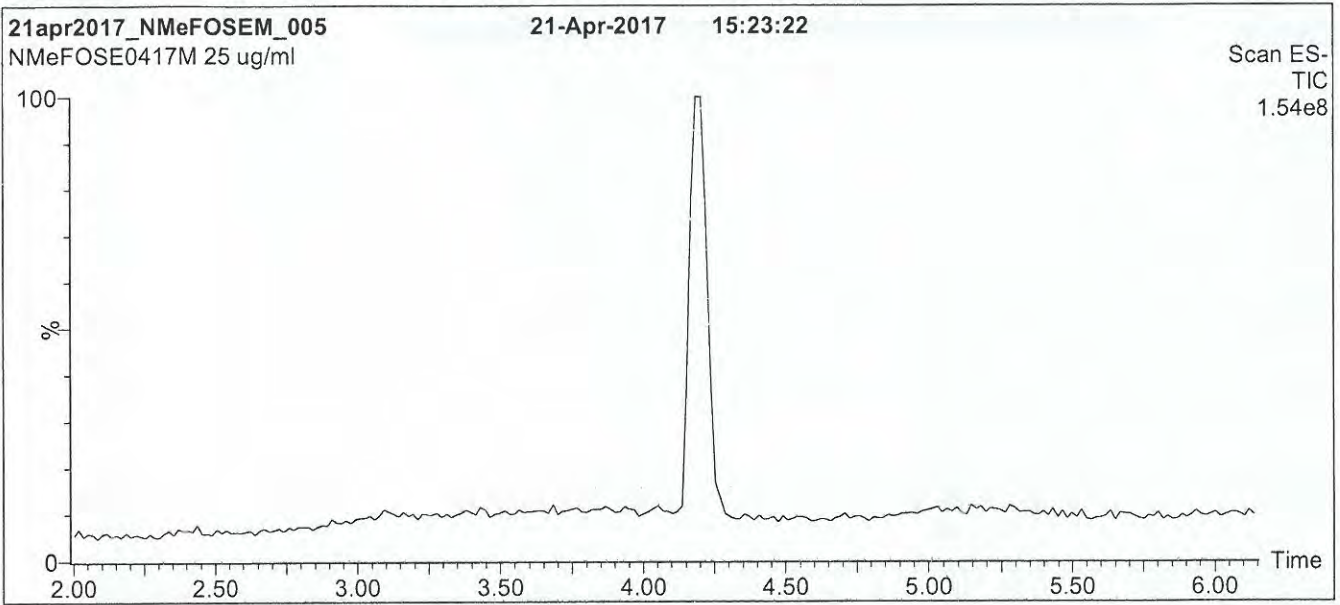
HRGC/LRMS:

Agilent 7890A (HRGC)
Agilent 5975C (LRMS)

Chromatographic Conditions:

Column: 30 m DB-5 (0.25 mm id, 0.25 μ m film thickness) Agilent J&W
Injector: 250 $^{\circ}$ C (Splitless Injection)
Oven: 100 $^{\circ}$ C (5 min)
10 $^{\circ}$ C/min to 325 $^{\circ}$ C
325 $^{\circ}$ C (20 min)
Ionization: EI+
Detector: 250 $^{\circ}$ C
Full Scan (50-1000 amu)

Figure 2: N-MeFOSE-M; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 2:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% MeOH / 40% H₂O
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

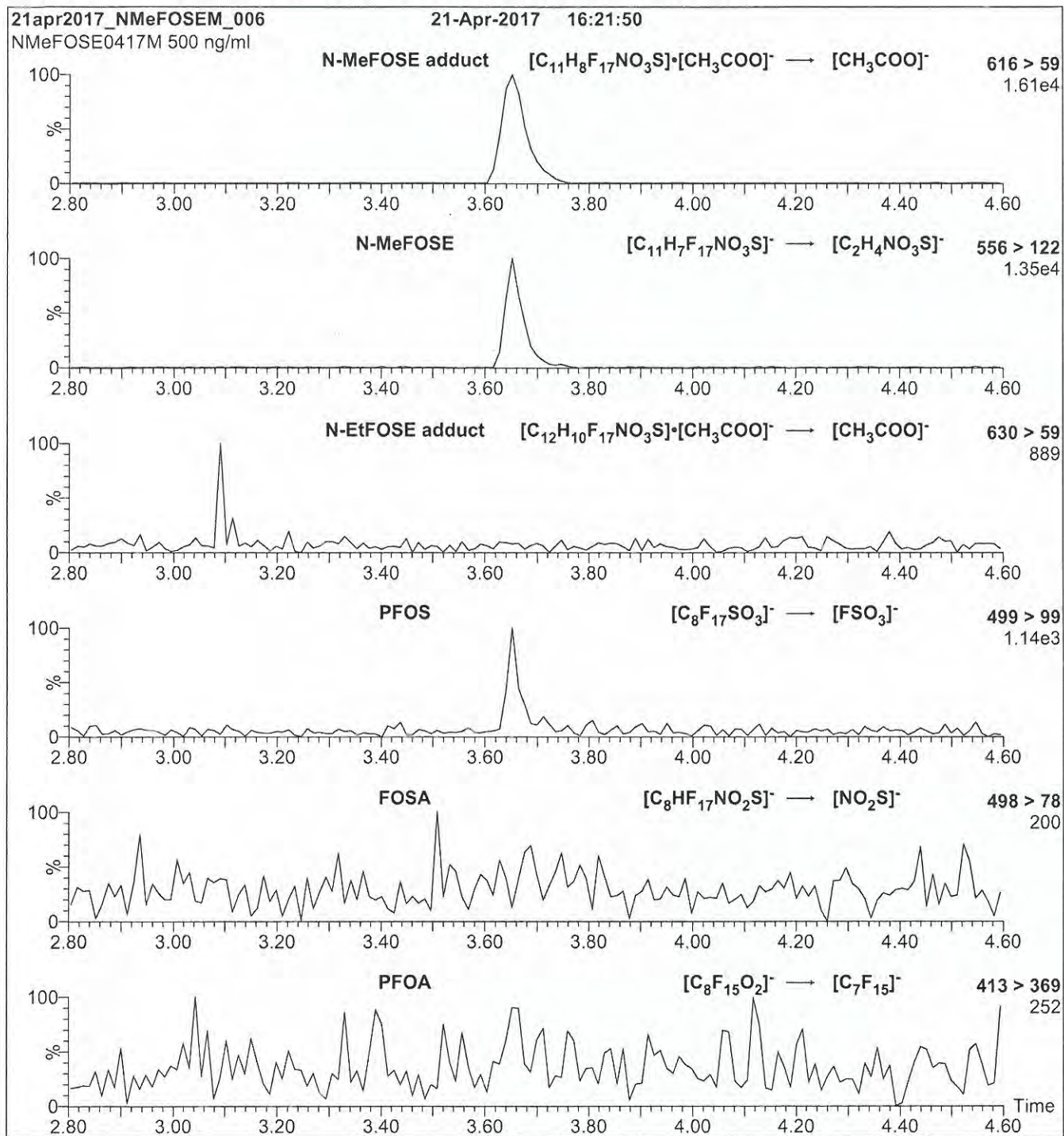
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

Figure 3: N-MeFOSE-M; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 3:

Injection: Direct loop injection
 10 μ l (500 ng/ml N-MeFOSE-M)

Mobile phase: Isocratic 80% MeOH / 20% H₂O

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
 Collision Energy (eV) = 35

TABLE 2. WATERSHED IN CONFORMANCE WITH FEDERAL WATER POLLUTION CONTROL ACT

Watershed Name	Population	Area (sq. miles)	Water Quality	Compliance Status
Watershed A	10,000	100	Good	Compliant
Watershed B	20,000	200	Fair	Compliant
Watershed C	30,000	300	Poor	Non-Compliant
Watershed D	40,000	400	Very Poor	Non-Compliant
Watershed E	50,000	500	Excellent	Compliant
Watershed F	60,000	600	Good	Compliant
Watershed G	70,000	700	Fair	Compliant
Watershed H	80,000	800	Poor	Non-Compliant
Watershed I	90,000	900	Very Poor	Non-Compliant
Watershed J	100,000	1,000	Good	Compliant

Analytical Standard Record

Vista Analytical Laboratory

17L0402

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	(mls)
17E1716	13C2-PFHxA	17-May-17	** Vendor **	22-Nov-21	0.2
17H0801	13C2-PFHxDA	08-Aug-17	** Vendor **	07-Jan-21	0.2
17K0802	d3-N-Me-FOSAA	08-Nov-17	** Vendor **	19-May-22	0.5
17K0803	d5-N-EtFOSAA	08-Nov-17	** Vendor **	22-Nov-21	0.5
17K0804	13C3-PFBA	08-Nov-17	** Vendor **	27-May-21	0.5
17K0805	13C2-8:2 FTS	08-Nov-17	** Vendor **	05-Jul-22	0.522
17K0807	13C2-6:2 FTS	08-Nov-17	** Vendor **	17-Feb-22	0.526
17K0810	13C5-PFNA	08-Nov-17	** Vendor **	30-Sep-21	0.5
17K0812	13C2-PFTeDA	08-Nov-17	** Vendor **	01-Mar-22	0.5
17K0813	13C2-PFUdA	08-Nov-17	** Vendor **	22-Nov-21	0.5
17K0814	13C4-PFHpA	08-Nov-17	** Vendor **	03-May-22	0.5
17K0816	13C2-PFDoA	08-Nov-17	** Vendor **	23-May-22	0.5
17K0818	18O2-PFHxS	08-Nov-17	** Vendor **	17-Feb-22	0.529
17K0819	13C8-PFOS	08-Nov-17	** Vendor **	30-Sep-21	0.539
17K0821	13C3-PFBS	08-Nov-17	** Vendor **	24-May-22	0.538
17K3038	13C8-FOSA-I	30-Nov-17	** Vendor **	11-Oct-22	0.5
17K3039	13C2-PFDA	30-Nov-17	** Vendor **	13-Jul-22	0.5
17K3040	13C2-PFOA	30-Nov-17	** Vendor **	26-Oct-22	0.5
17K3041	13C3-PFPeA	30-Nov-17	** Vendor **	20-Apr-22	0.5

Description:	PFC - IS	Expires:	04-Dec-18
Standard Type:	Reagent	Prepared:	04-Dec-17
Solvent:	MeOH	Prepared By:	Kyle Byrd-Fisher
Final Volume (mls):	20	Department:	LCMS
Vials:	1	Last Edit:	12-Dec-17 09:51 by AEW

Analyte	CAS Number	Concentration	Units
13C3-PFBS		1.25	ug/mL
13C2-8:2 FTS		1.25	ug/mL
13C2-PFDA		1.25	ug/mL
13C2-PFDoA		1.25	ug/mL
13C2-PFHxA		0.5	ug/mL
13C2-PFHxDA		0.5	ug/mL
13C2-PFOA		1.25	ug/mL
13C2-PFTeDA		1.25	ug/mL
13C2-6:2 FTS		1.25	ug/mL
13C3-PFBA		1.25	ug/mL
d5-EtFOSAA		1.25	ug/mL
13C3-PFPeA		1.25	ug/mL
13C4-PFHpA		1.25	ug/mL
13C5-PFNA		1.25	ug/mL

Analytical Standard Record

Vista Analytical Laboratory

17L0402

Description:	PFC - IS	Expires:	04-Dec-18
Standard Type:	Reagent	Prepared:	04-Dec-17
Solvent:	MeOH	Prepared By:	Kyle Byrd-Fisher
Final Volume (mls):	20	Department:	LCMS
Vials:	1	Last Edit:	12-Dec-17 09:51 by AEW

Analyte	CAS Number	Concentration	Units
13C8-PFOS		1.25	ug/mL
13C8-PFOSA		1.25	ug/mL
18O2-PFHxS		1.25	ug/mL
d3-MeFOSAA		1.25	ug/mL
13C2-PFUnA		1.25	ug/mL

✓ 17E1716



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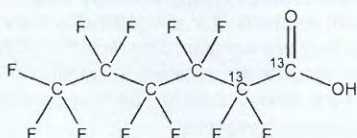
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: MPFHxA
COMPOUND: Perfluoro-n-[1,2-¹³C₂]hexanoic acid

LOT NUMBER: MPFHxA1116

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: ¹³C₂¹²C₄HF₁₁O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 316.04
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%

ISOTOPIC PURITY: ≥99%¹³C
(1,2-¹³C₂)

LAST TESTED: (mm/dd/yyyy) 11/22/2016

EXPIRY DATE: (mm/dd/yyyy) 11/22/2021

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

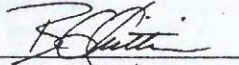
DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains < 0.1% of perfluoro-n-hexanoic acid and ~ 0.3% of perfluoro-n-octanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim

Date: 12/13/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17-H0801

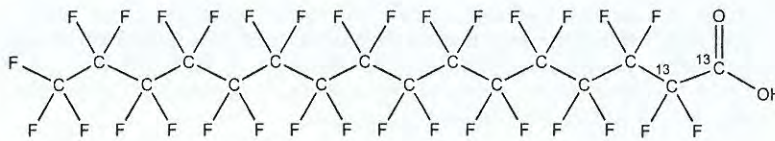


WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M2PFHxDA ✓ **LOT NUMBER:** M2PFHxDA1112
COMPOUND: Perfluoro-n-[1,2-¹³C₂]hexadecanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₄HF₃₁O₂ **MOLECULAR WEIGHT:** 816.11
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
(1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 01/07/2016
EXPIRY DATE: (mm/dd/yyyy) 01/07/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.3% of native perfluoro-n-hexadecanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim **Date:** 01/11/2016
(mm/dd/yyyy)

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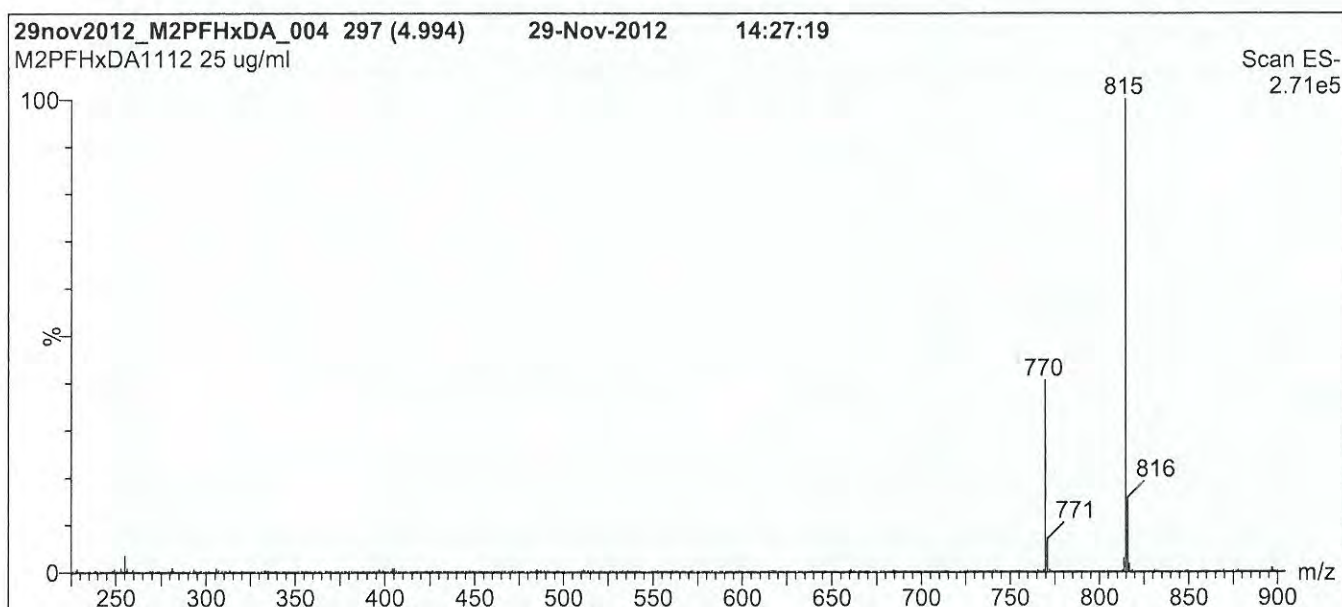
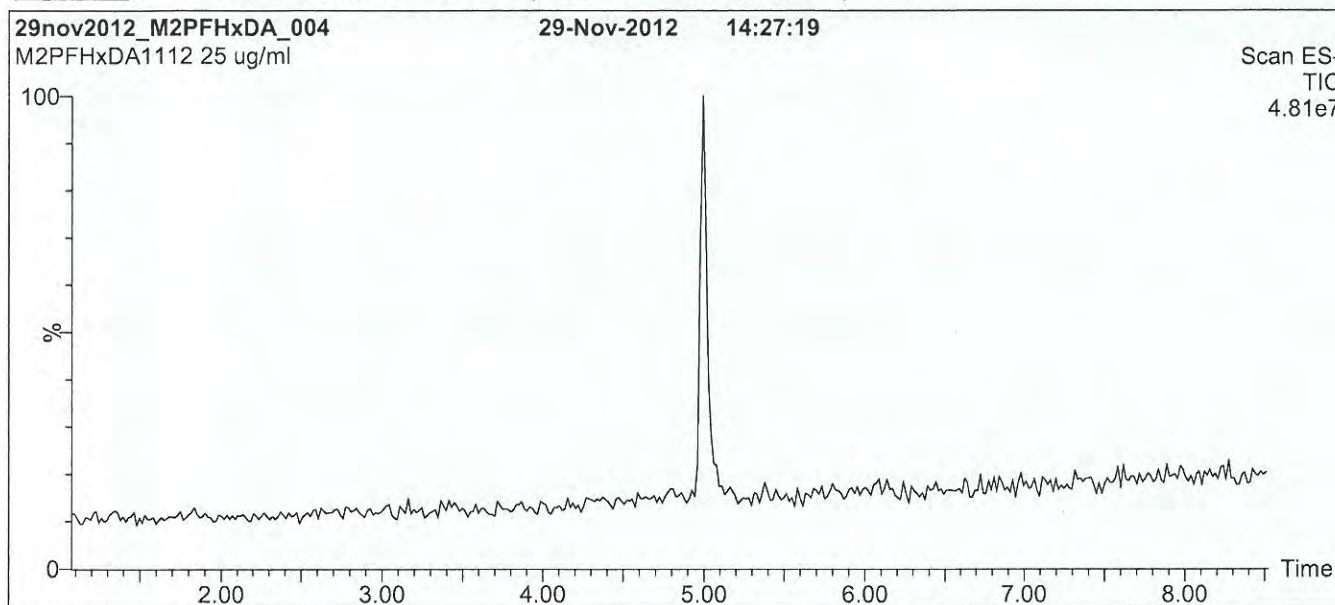
QUALITY MANAGEMENT:

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Figure 1: M2PFHxDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 100% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

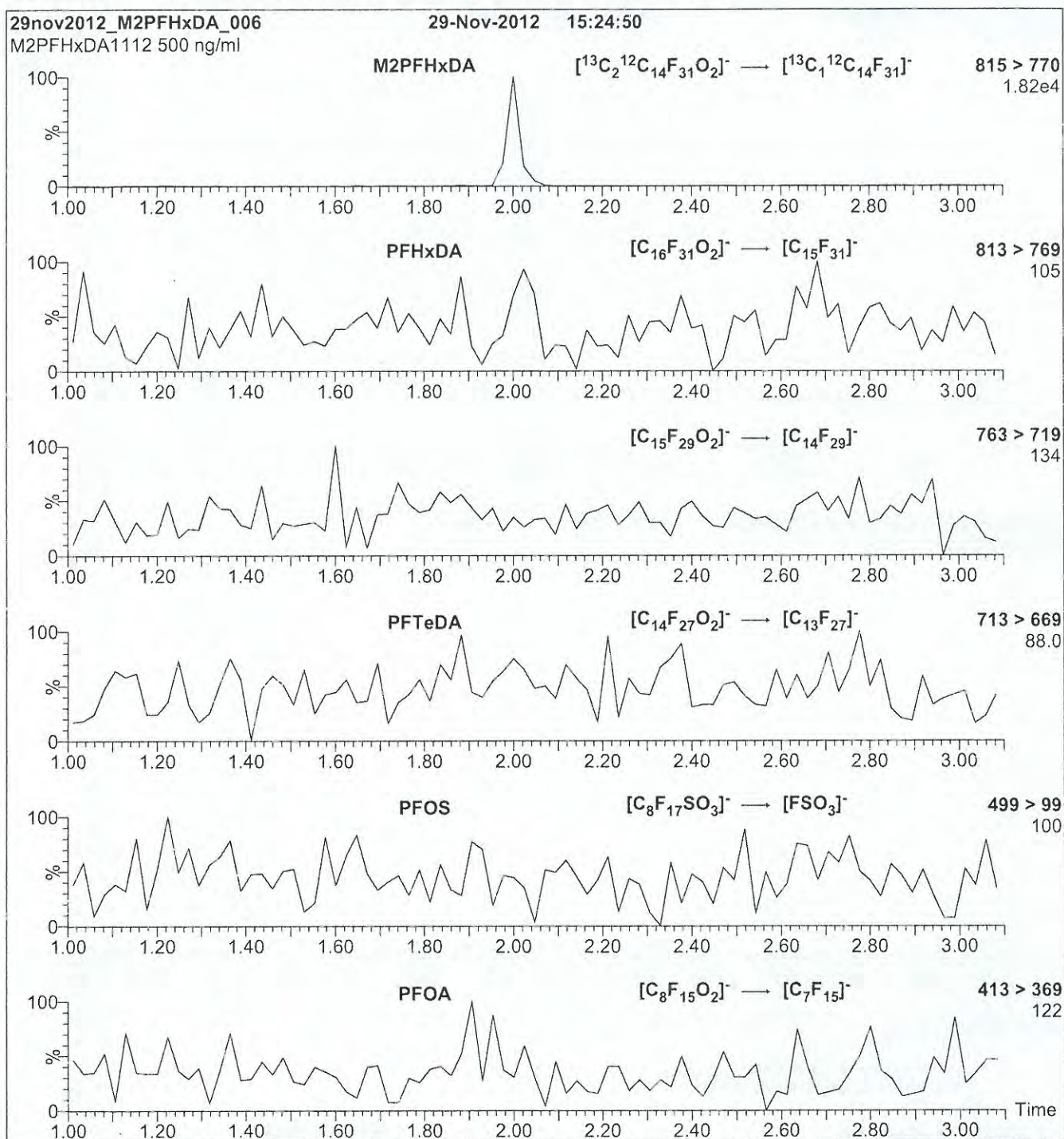
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 1200 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 25.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

Figure 2: M2PFHxDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2PFHxDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 15

17K0802

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where x is expressed as a relative standard uncertainty of the individual parameter.

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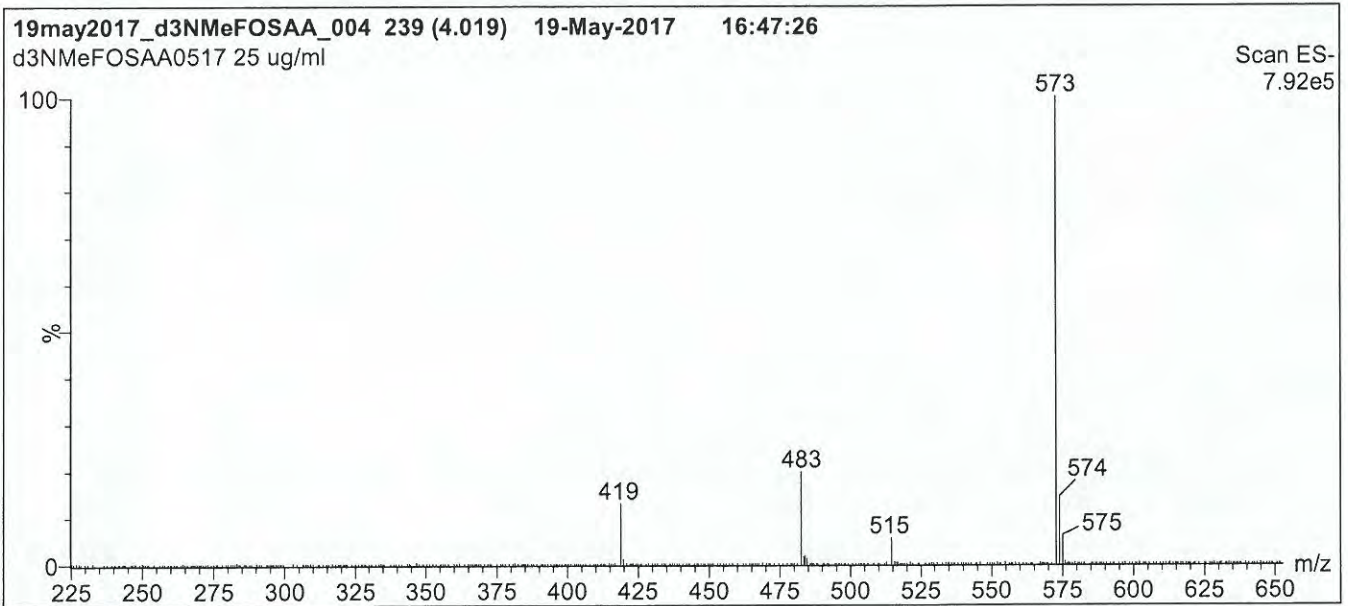
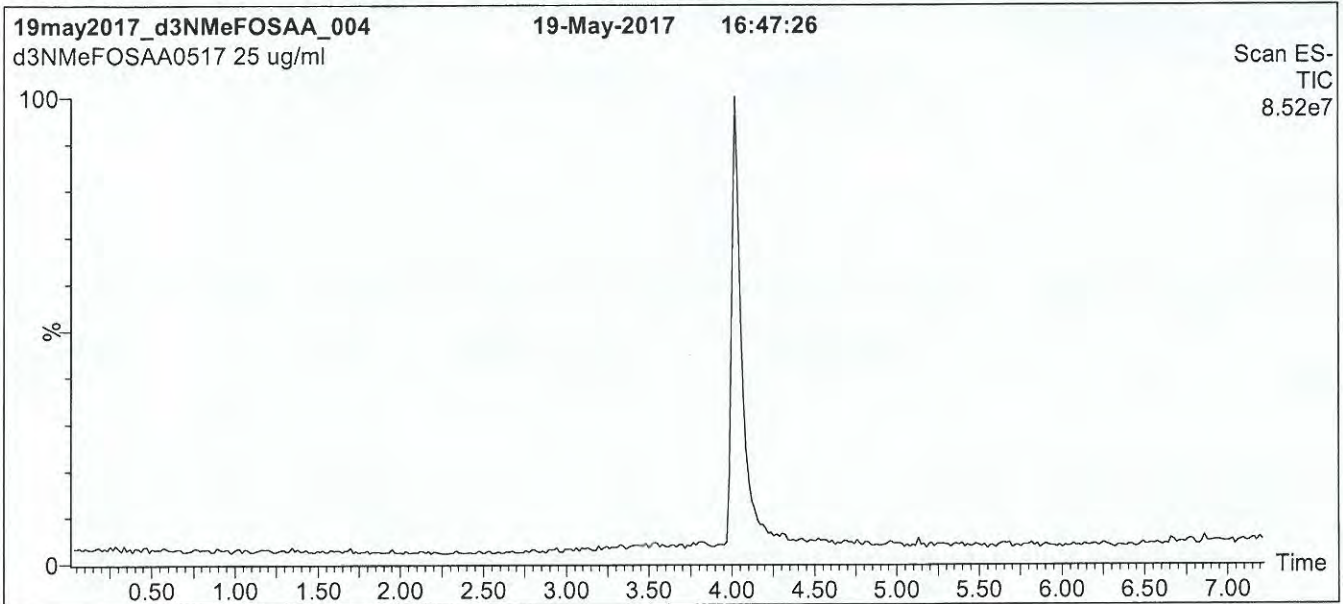
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17K0802

Figure 1: d3-N-MeFOSAA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

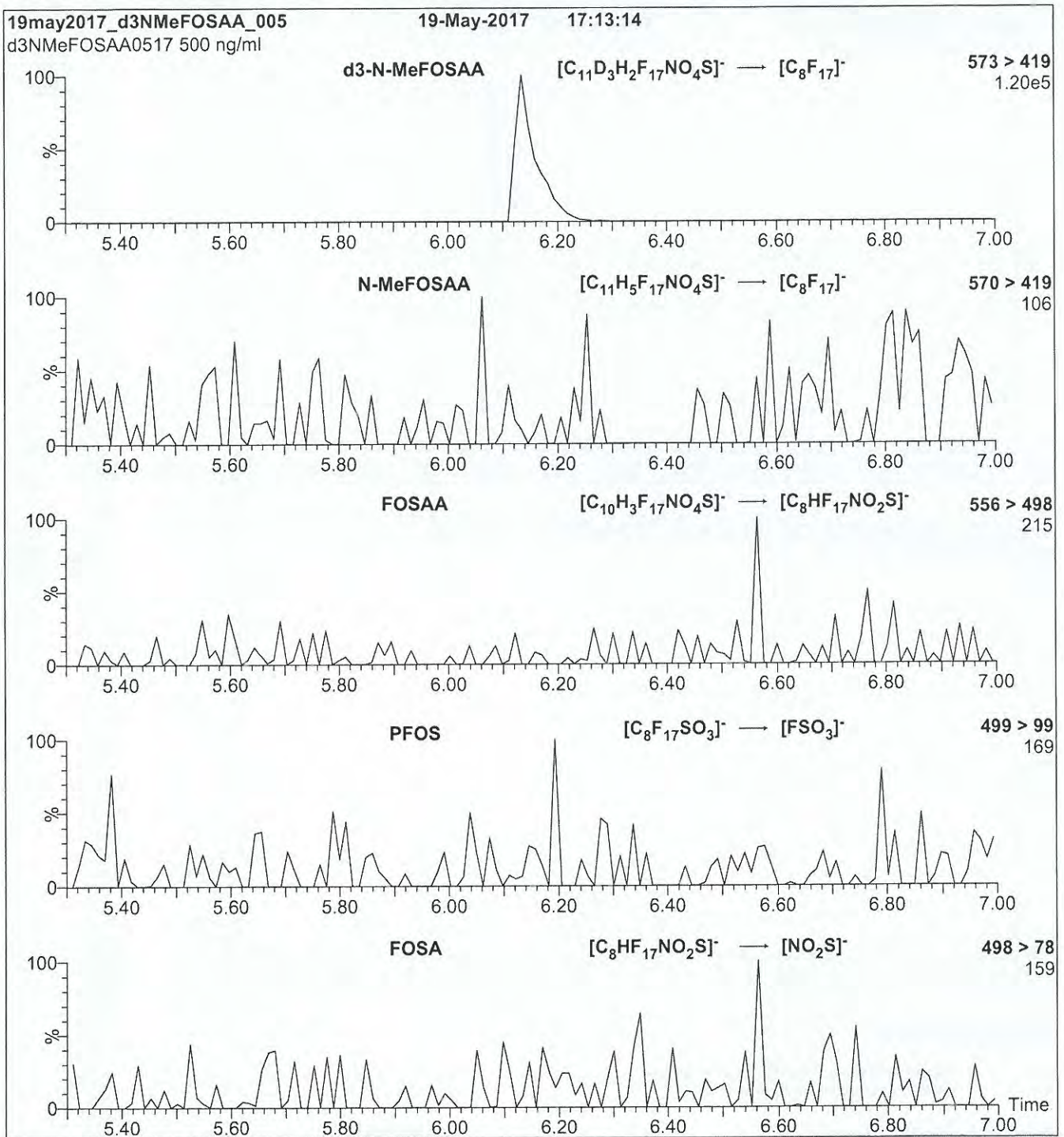
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K0802

Figure 2: d3-N-MeFOSAA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml d3-N-MeFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 20

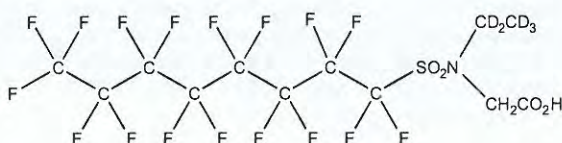
17K0803



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: d5-N-EtFOSAA **LOT NUMBER:** d5NEtFOSAA1116
COMPOUND: N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: $C_{12}D_5H_3F_{17}NO_4S$ **MOLECULAR WEIGHT:** 590.26
CONCENTRATION: $50 \pm 2.5 \mu\text{g/ml}$ **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** $\geq 98\% \text{ } ^2\text{H}_5$
LAST TESTED: (mm/dd/yyyy) 11/22/2016
EXPIRY DATE: (mm/dd/yyyy) 11/22/2021
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent the conversion of the acetic acid moiety to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:


 B.G. Chittim

Date: 12/01/2016
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0803

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

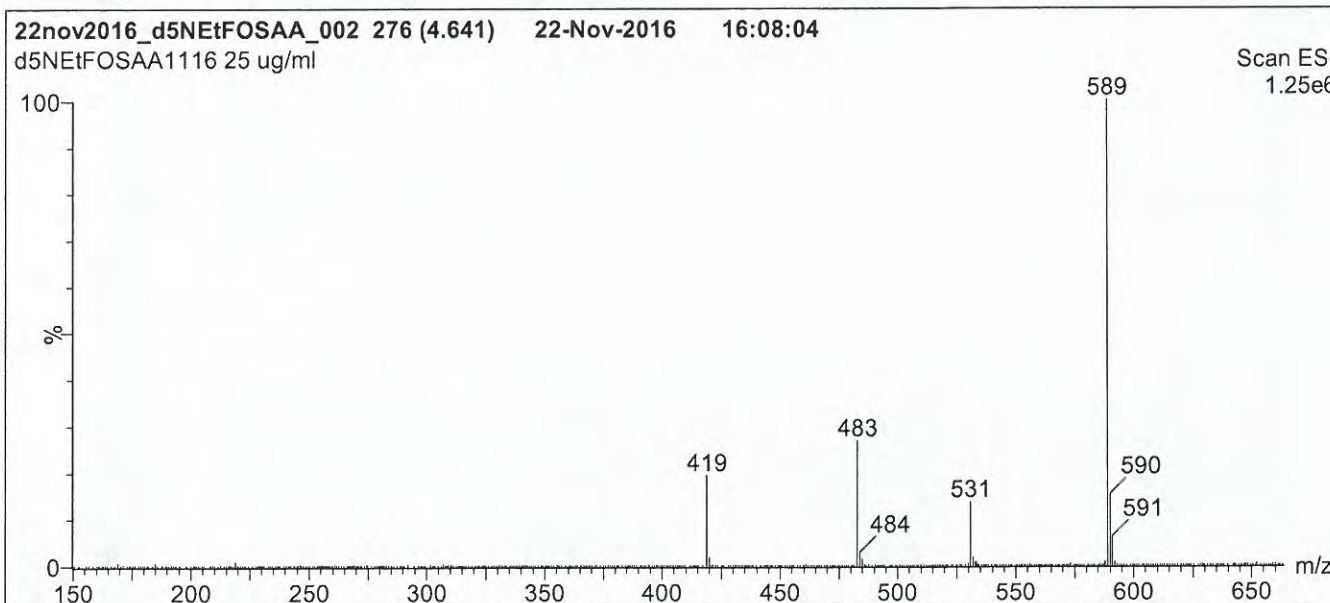
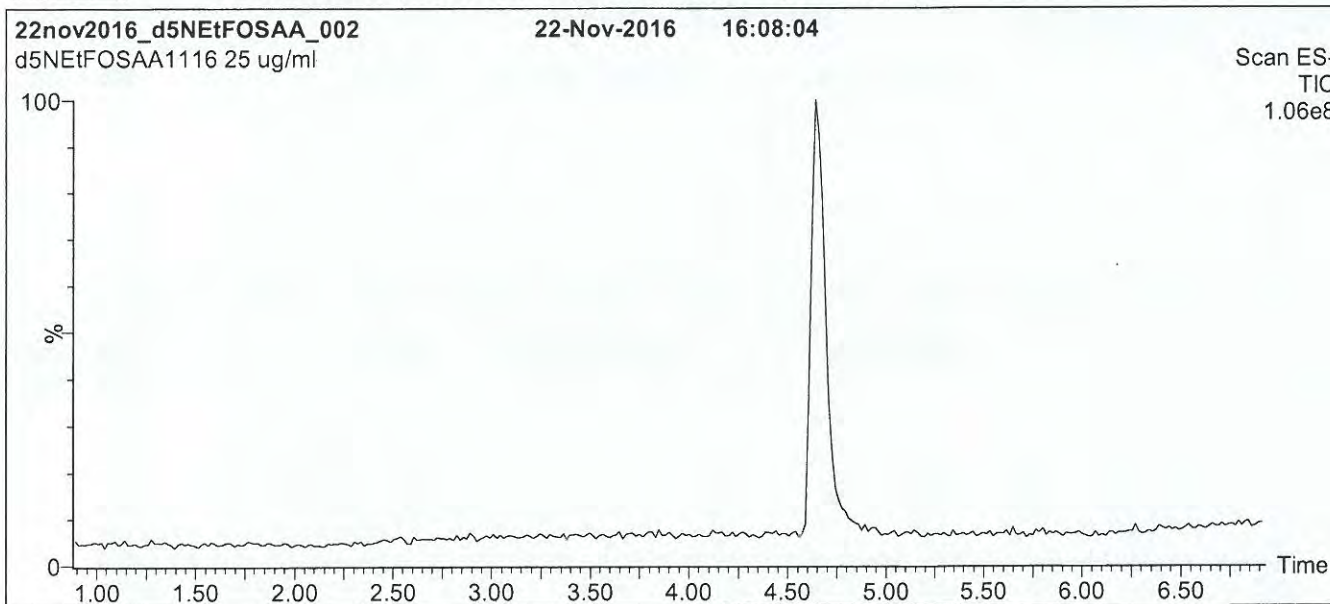
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17K0803

Figure 1: d5-N-EtFOSAA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

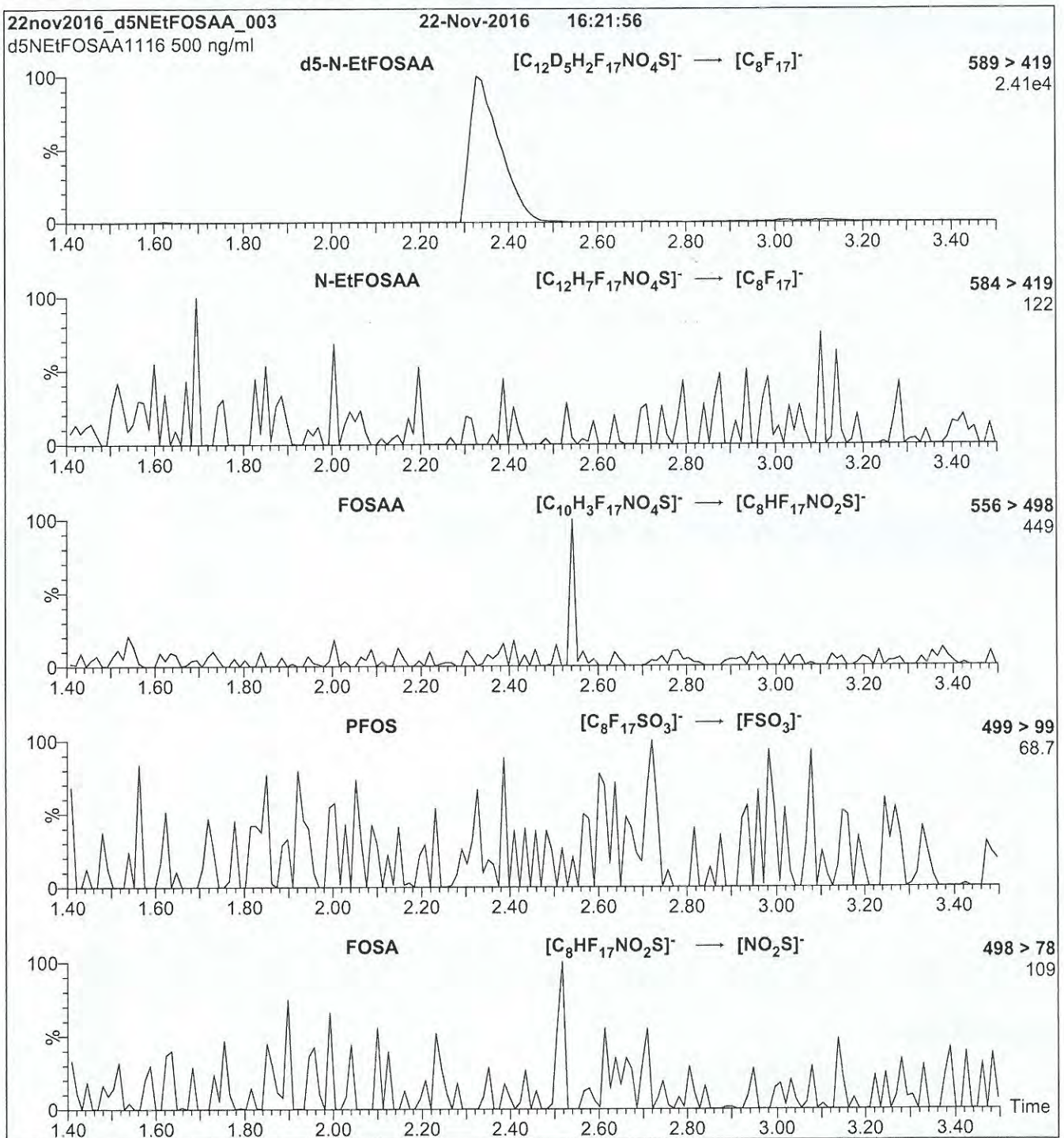
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 35.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K0803

Figure 2: d5-N-EtFOSAA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μ l (500 ng/ml d5-N-EtFOSAA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 μ l/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 20

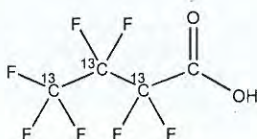
17K0804



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3PFBA **LOT NUMBER:** M3PFBA0516
COMPOUND: Perfluoro-n-[2,3,4-¹³C₃]butanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²CHF₇O₂ **MOLECULAR WEIGHT:** 217.02
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99%¹³C
 (2,3,4-¹³C₃)
LAST TESTED: (mm/dd/yyyy) 05/27/2016
EXPIRY DATE: (mm/dd/yyyy) 05/27/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

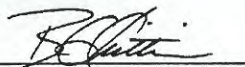
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.2% of perfluoro-n-[¹³C₃]propanoic acid and also contains ~ 1.0% of perfluoro-n-[1,2,3,4-¹³C₄]butanoic acid due to the naturally occurring isotopic abundance of ¹³C in the unlabelled carbon atom.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____


B.G. Chittim

Date: 07/08/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0804

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

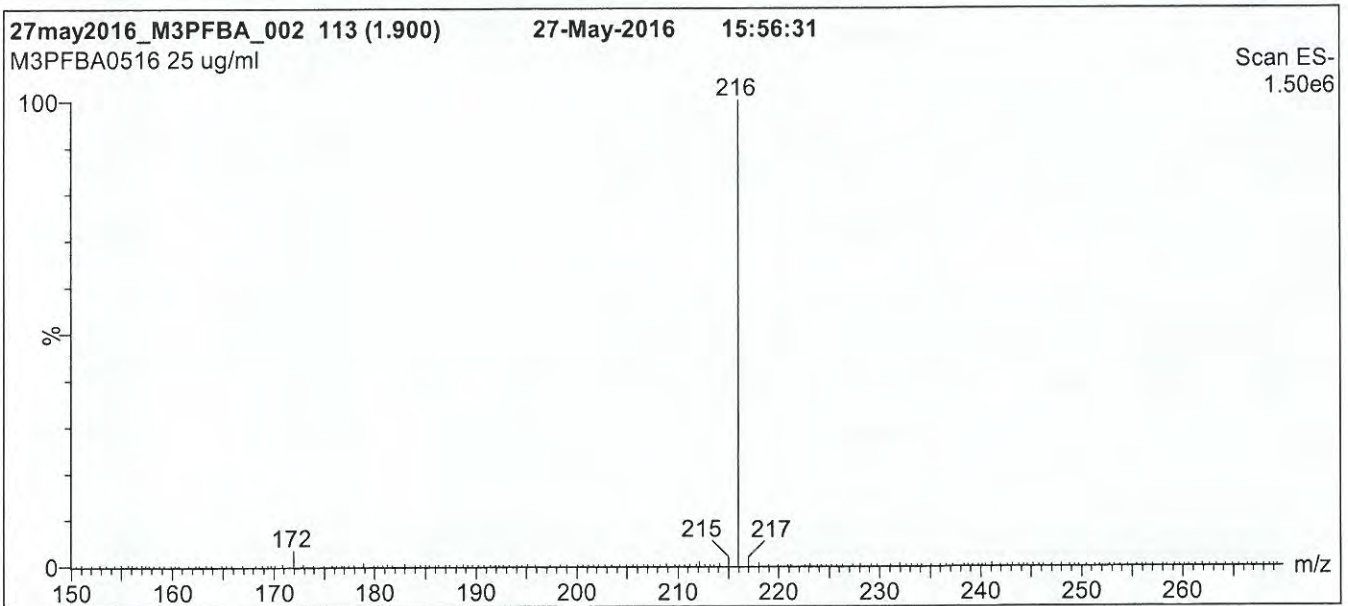
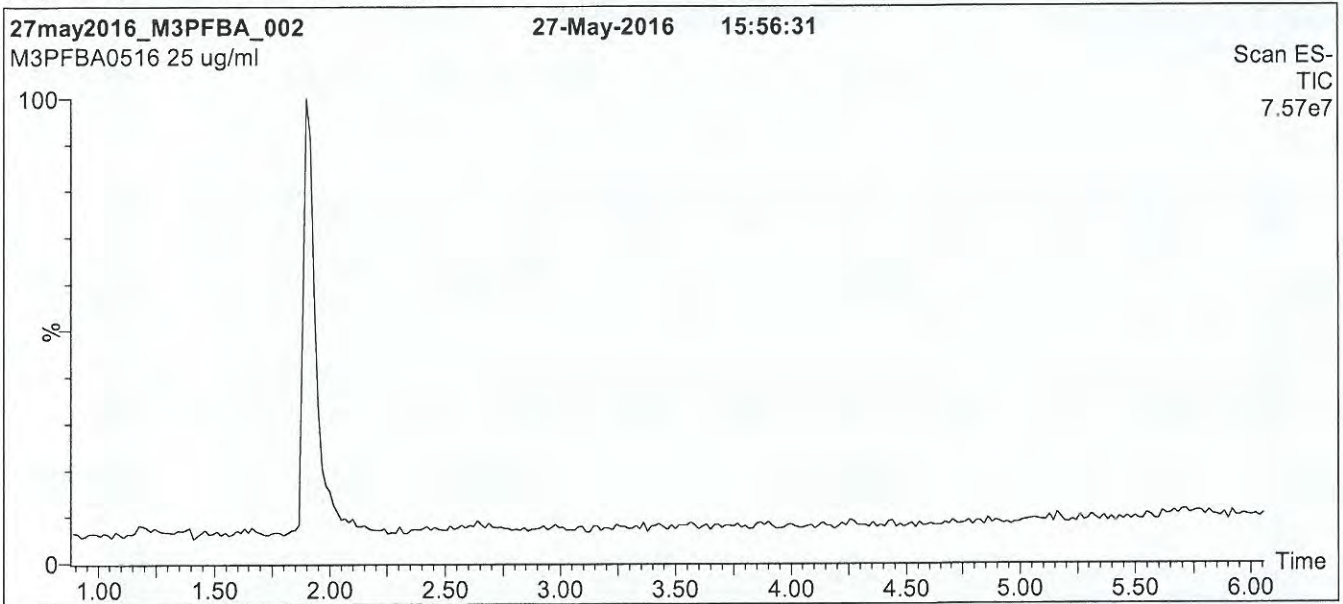
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17K0804

Figure 1: M3PFBA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

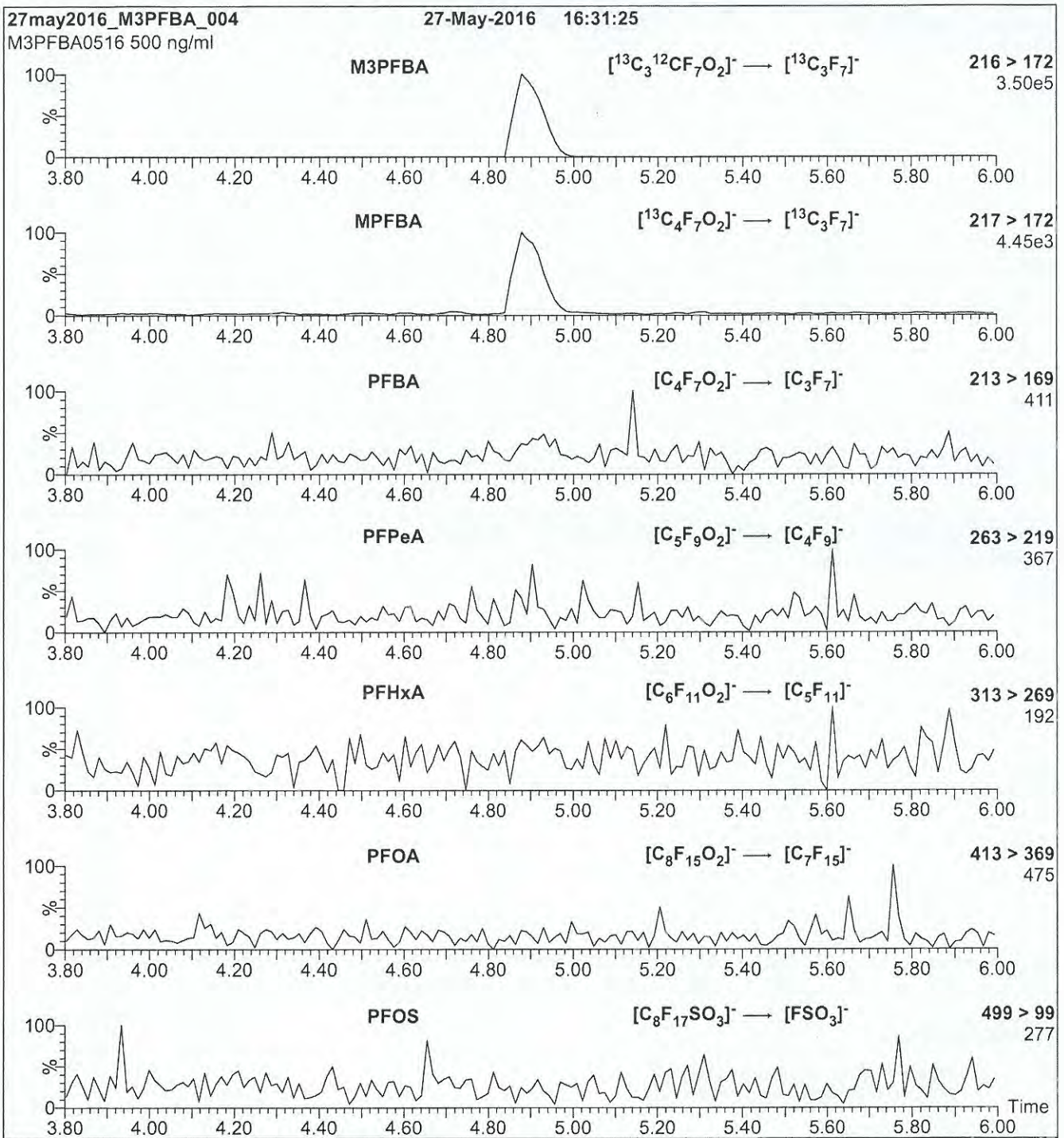
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17K0804

Figure 2: M3PFBA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml M3PFBA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.62e-3
Collision Energy (eV) = 10

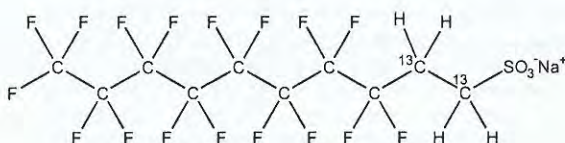
17K0805



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M2-8:2FTS **LOT NUMBER:** M282FTS0717
COMPOUND: Sodium 1H,1H,2H,2H-perfluoro-[1,2-¹³C₂]decane sulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₆H₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 552.15
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.9 ± 2.4 µg/ml (M2-8:2FTS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 07/05/2017 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 07/05/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The native 8:2FTS contains 4.22% of ³⁴S (due to natural isotopic abundance) therefore both native 8:2FTS and M2-8:2FTS will produce signals in the m/z 529 to m/z 509 channel during SRM analysis. We recommend using the m/z 529 to m/z 81 transition to monitor for M2-8:2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager

Date: 07/07/2017
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0805

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

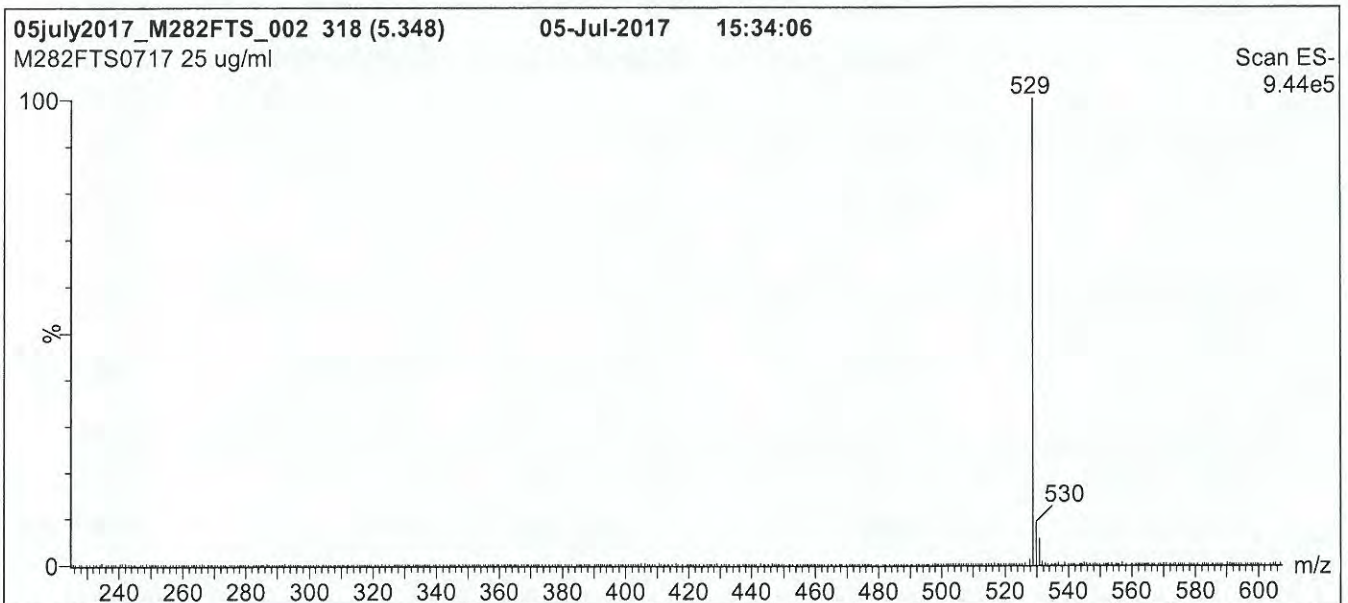
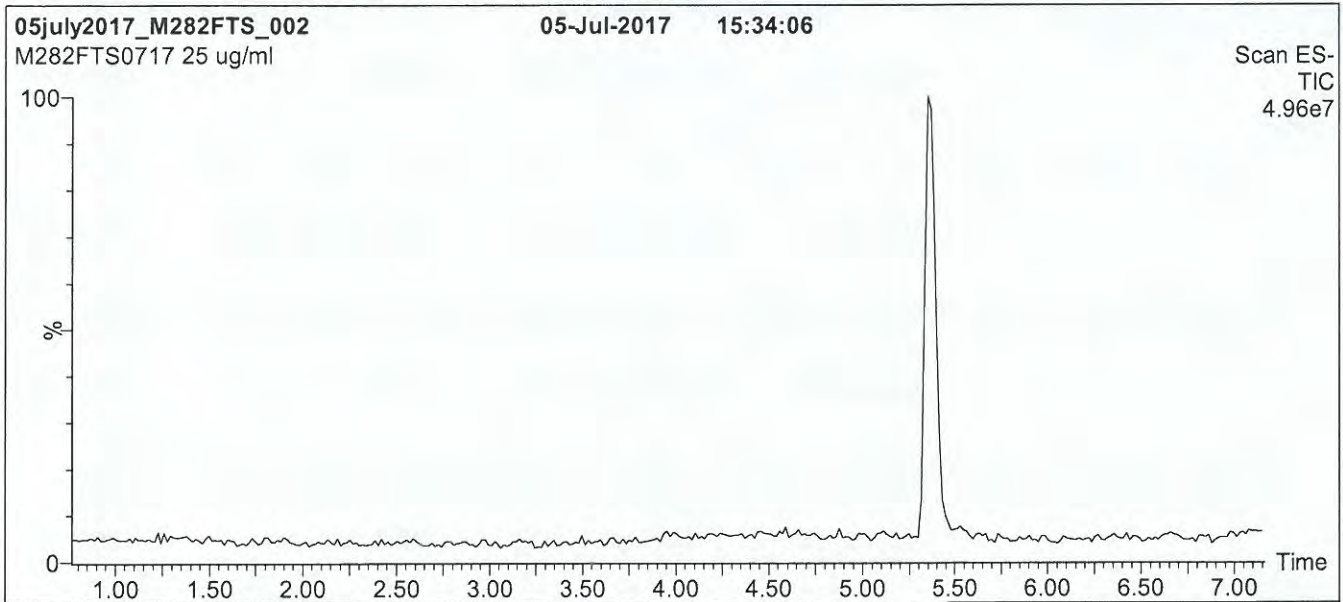
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17K0805

Figure 1: M2-8:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

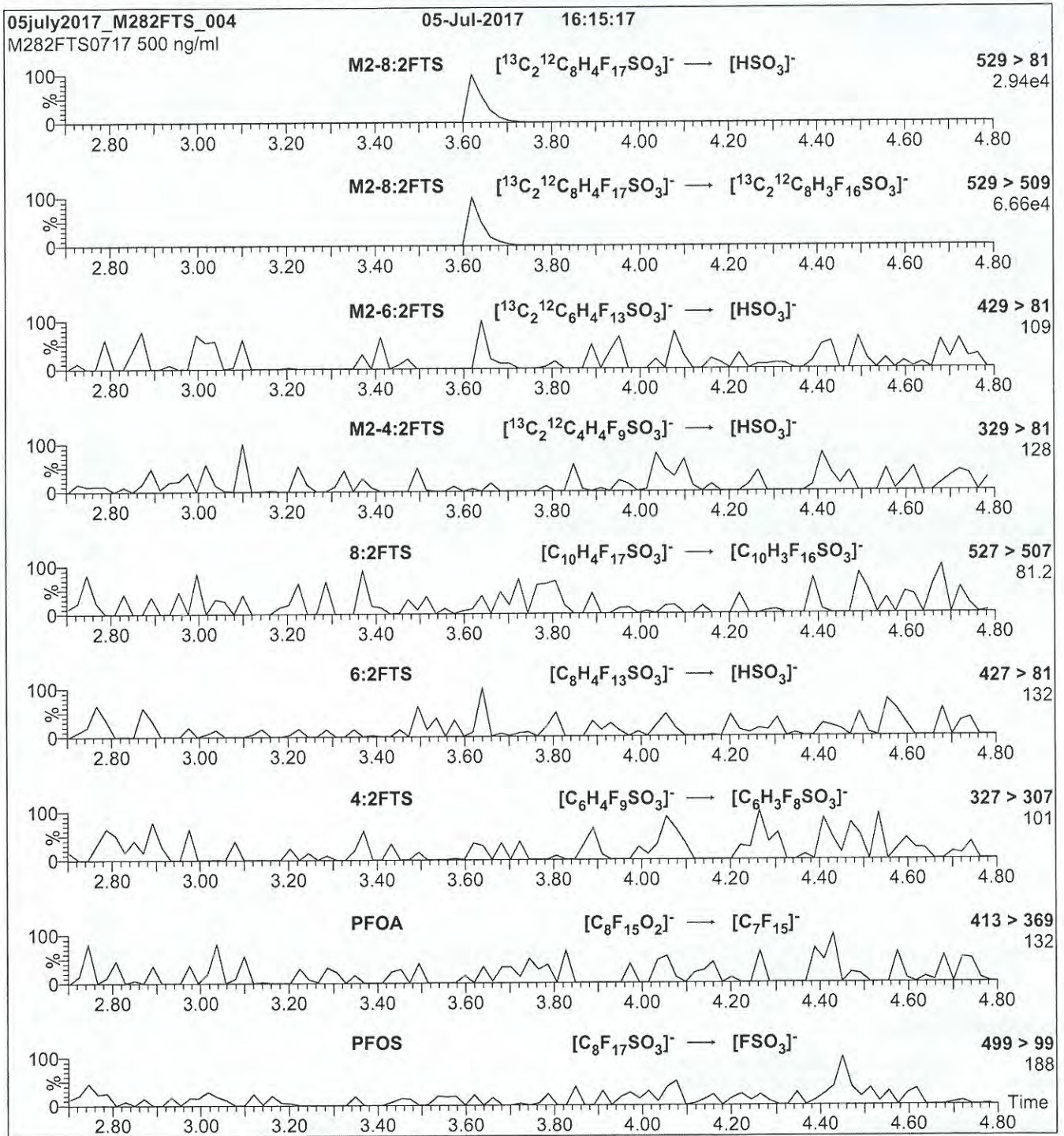
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)
Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17K0805

Figure 2: M2-8:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2-8:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.50e-3
Collision Energy (eV) = 30

17K0807

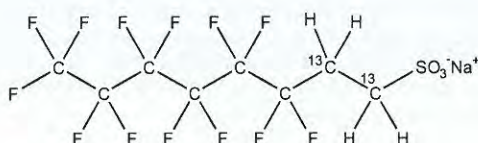


WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M2-6:2FTS **LOT NUMBER:** M262FTS0217
COMPOUND: Sodium 1H,1H,2H,2H-perfluoro-[1,2-¹³C₂]octane sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₆H₄F₁₃SO₃Na **MOLECULAR WEIGHT:** 452.13
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
47.5 ± 2.4 µg/ml (M2-6:2FTS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 02/17/2017 (1,2-¹³C₂)
EXPIRY DATE: (mm/dd/yyyy) 02/17/2022
RECOMMENDED STORAGE: Refrigerate ampoule

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The native 6:2FTS contains 4.22% of ³⁴S (due to natural isotopic abundance) therefore both native 6:2FTS and M2-6:2FTS will produce signals in the m/z 429 to m/z 409 channel during SRM analysis. We recommend using the m/z 429 to m/z 81 transition to monitor for M2-6:2FTS during quantitative analysis as it will be free of any native contribution (see Figure 2).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:


B.G. Chittim

Date: 02/24/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0807

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

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HOMOGENEITY:

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UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

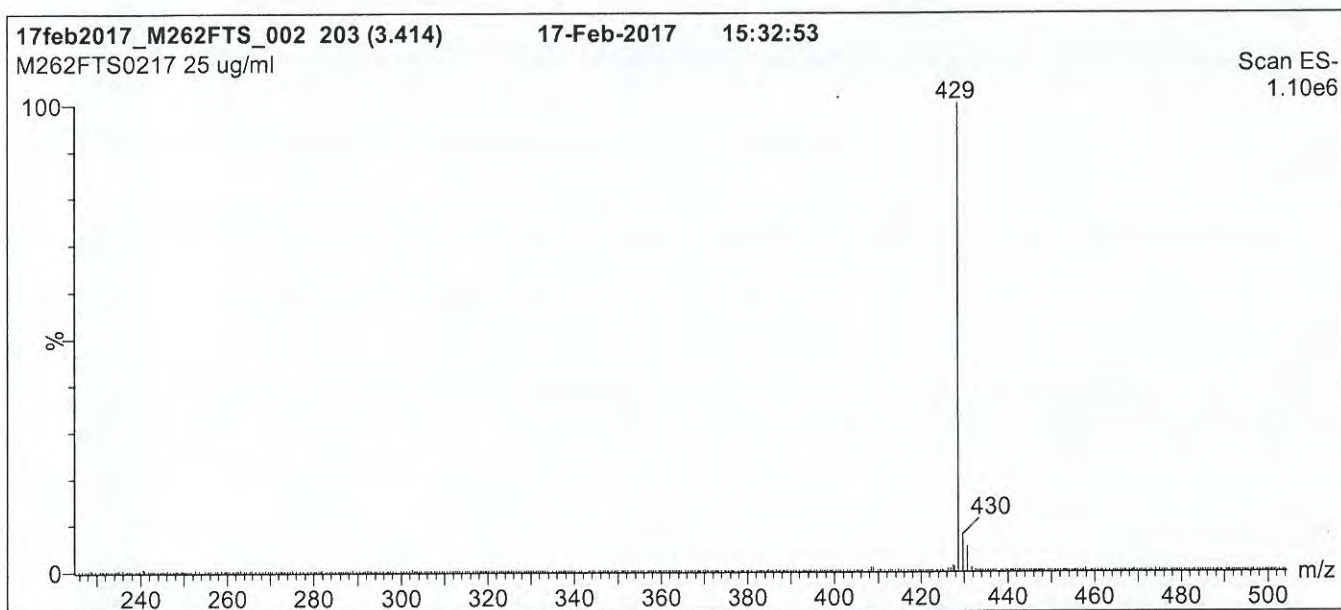
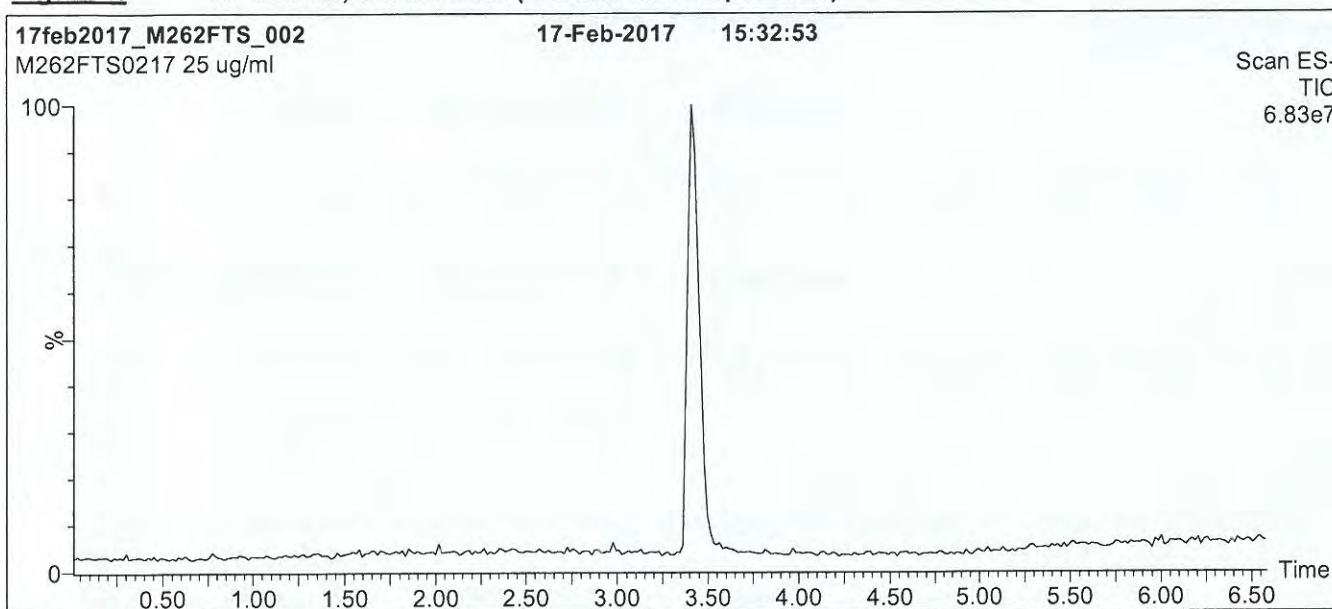
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17K0807

Figure 1: M2-6:2FTS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 10 min

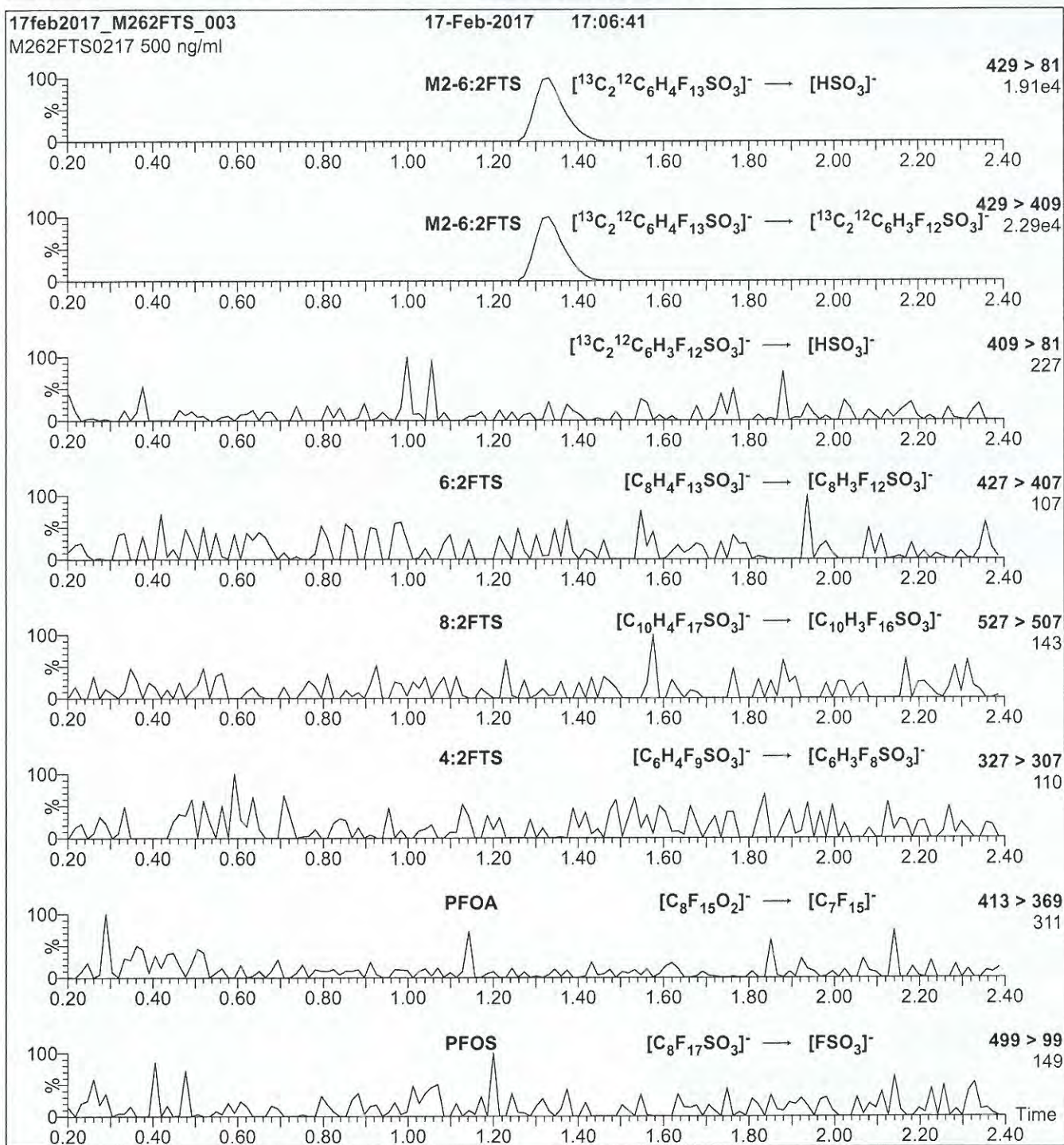
Flow: 300 μ l/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)
Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 30.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K0807

Figure 2: M2-6:2FTS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2-6:2FTS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 25

17K0810

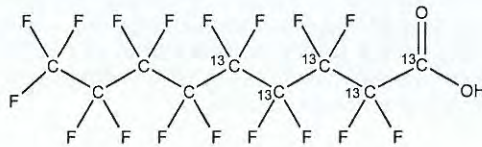


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: MPFNA **LOT NUMBER:** MPFNA0916
COMPOUND: Perfluoro-n-[1,2,3,4,5-¹³C₅]nonanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₅¹²C₄HF₁₇O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 469.04

SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%

ISOTOPIC PURITY: ≥99%¹³C

LAST TESTED: (mm/dd/yyyy) 09/30/2016

(1,2,3,4,5-¹³C₅)

EXPIRY DATE: (mm/dd/yyyy) 09/30/2021

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:


B.G. Chittim

Date: 10/11/2016

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0810

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

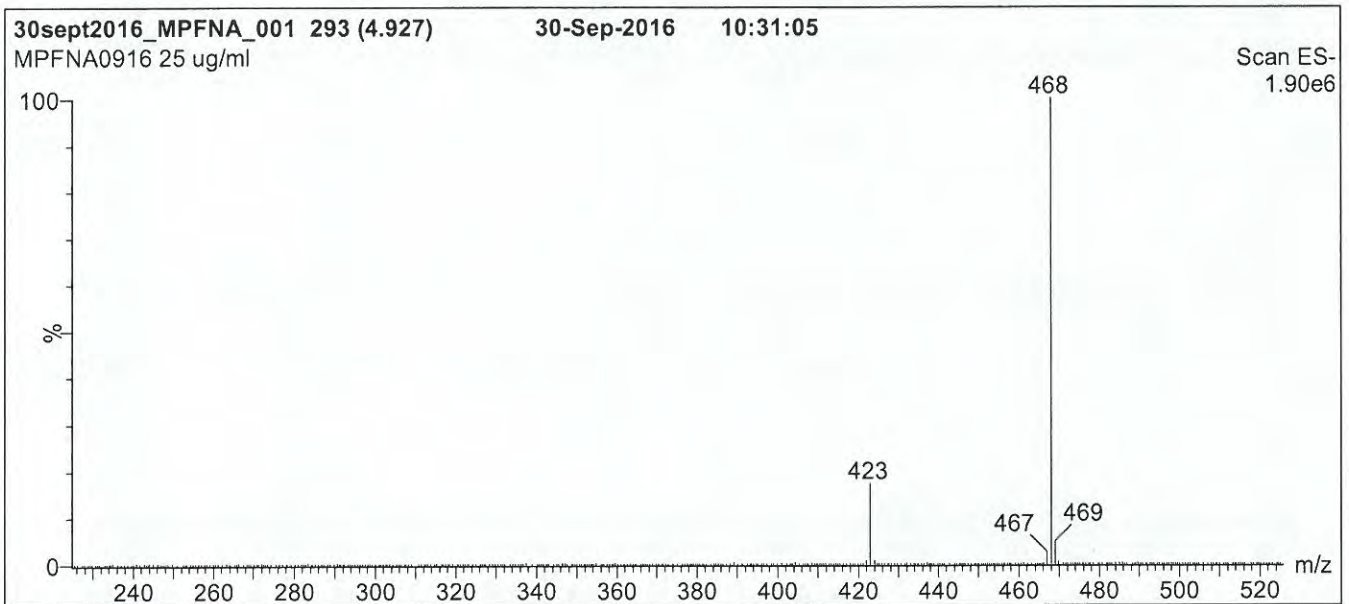
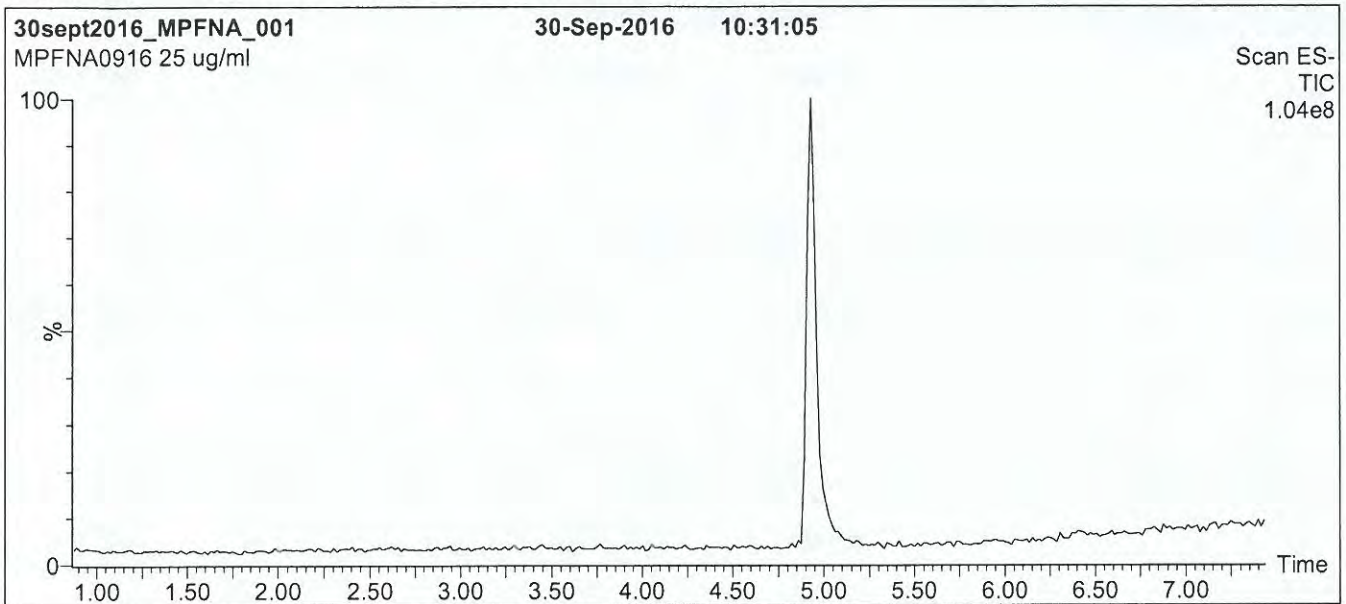
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17K0810

Figure 1: MPFNA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

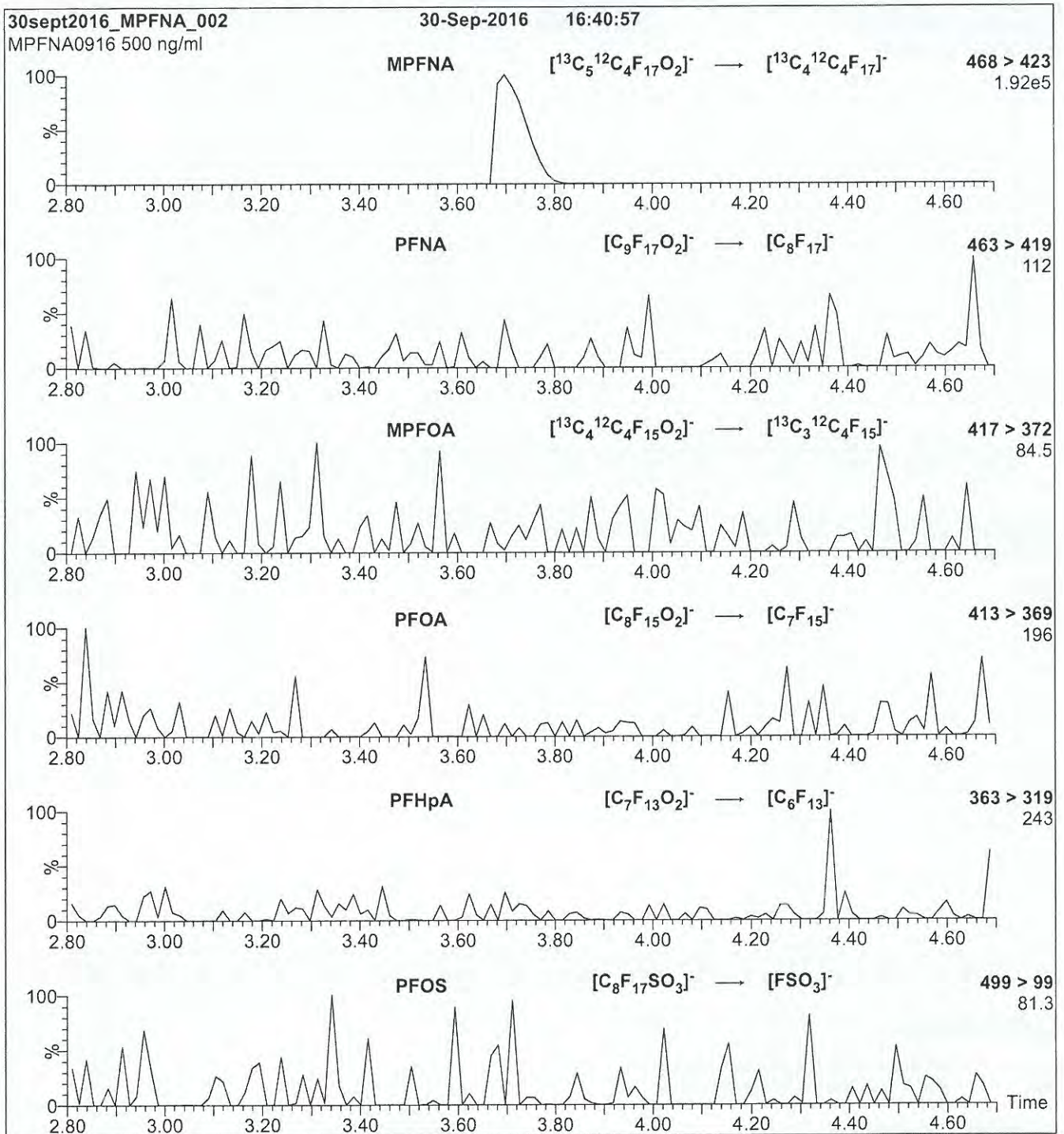
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K0810

Figure 2: MPFNA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 μl (500 ng/ml MPFNA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
 (both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
 Collision Energy (eV) = 11

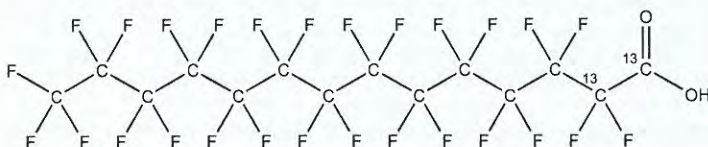
17K0812



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M2PFTeDA **LOT NUMBER:** M2PFTeDA0217
COMPOUND: Perfluoro-n-[1,2-¹³C₂]tetradecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₂HF₂₇O₂ **MOLECULAR WEIGHT:** 716.10
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 03/01/2017
EXPIRY DATE: (mm/dd/yyyy) 03/01/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

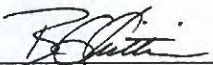
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
 B.G. Chittim, General Manager **Date:** 03/07/2017
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0812

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

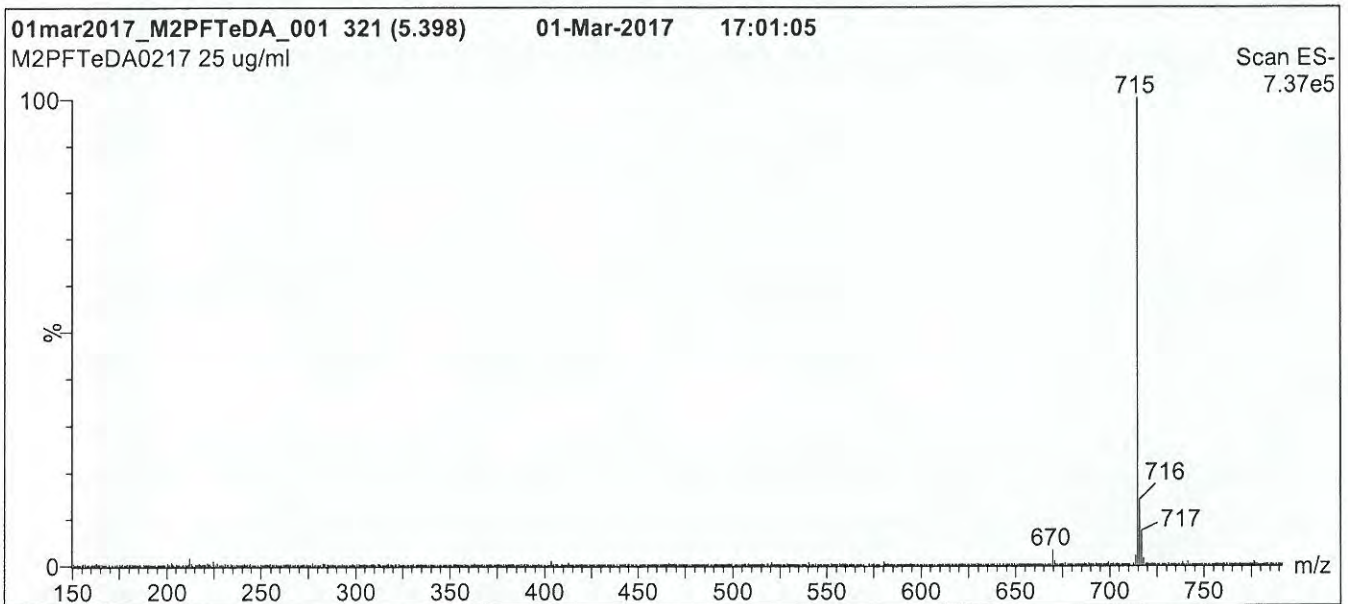
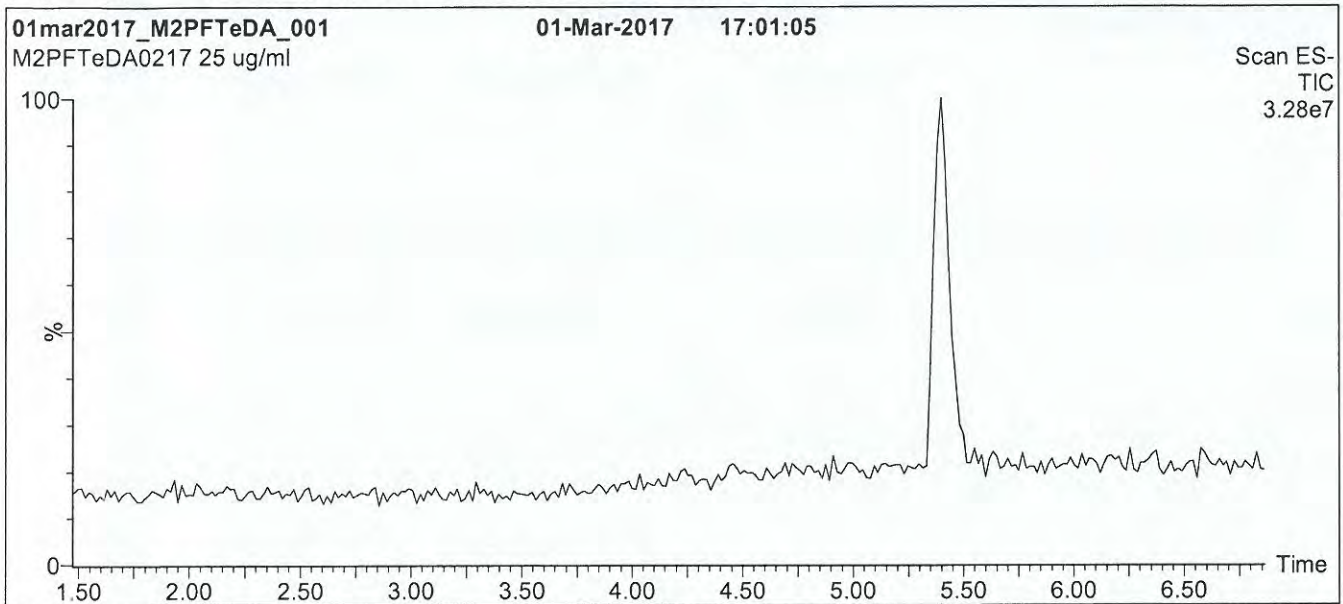
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K0812

Figure 1: M2PFTeDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 65% (80:20 MeOH:ACN) / 35% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

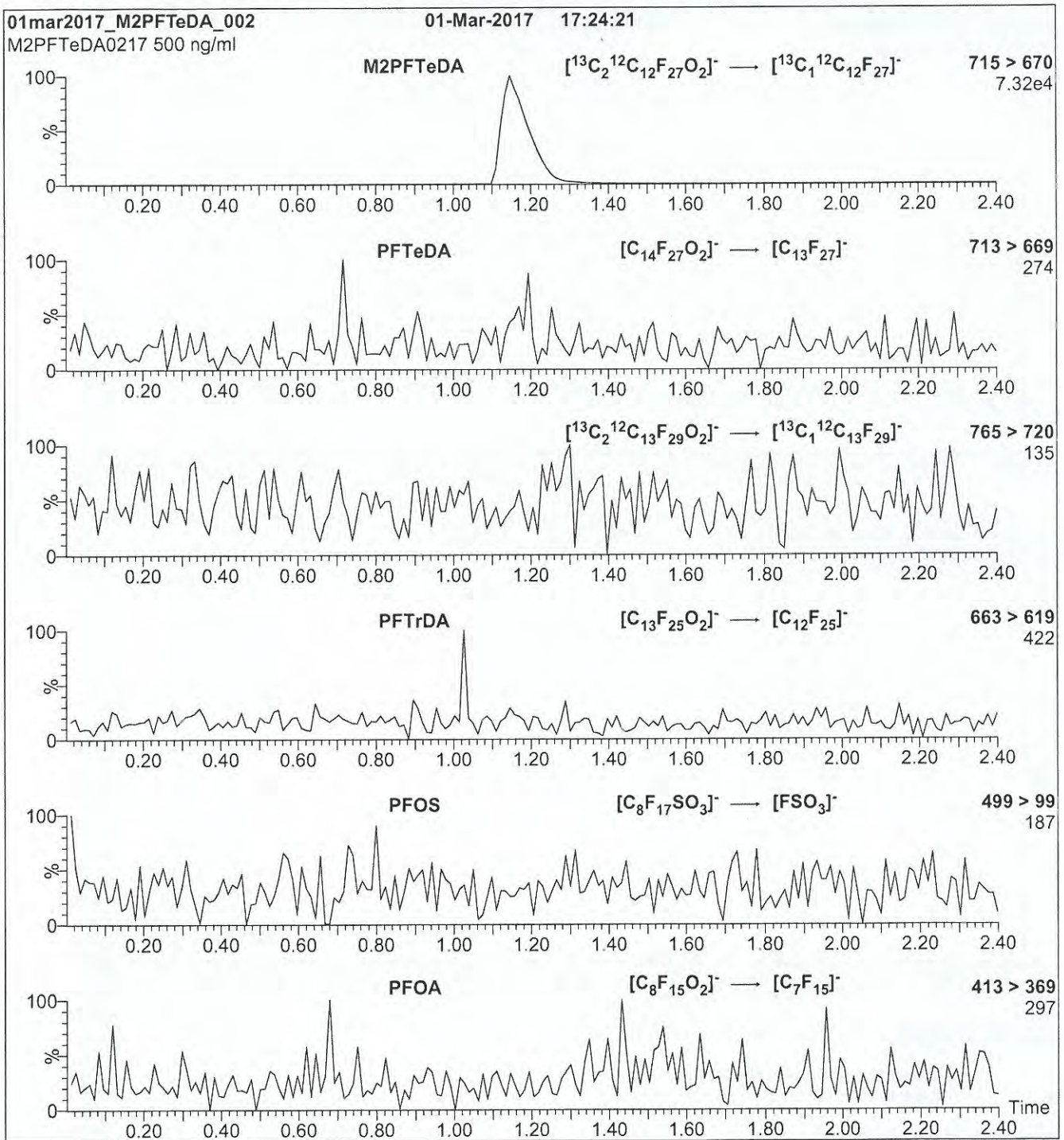
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17K0812

Figure 2: M2PFTeDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2PFTeDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.46e-3
Collision Energy (eV) = 14

17K0813

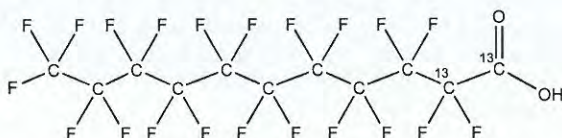


WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: MPFUdA **LOT NUMBER:** MPFUdA1116
COMPOUND: Perfluoro-n-[1,2-¹³C₂]undecanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₉HF₂₁O₂ **MOLECULAR WEIGHT:** 566.08
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 11/22/2016
EXPIRY DATE: (mm/dd/yyyy) 11/22/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Presence of 1-¹³C₁-PFUdA (~1%; see Figure 2), 2-¹³C₁-PFUdA (~1%), and PFUdA (~0.2%; see Figure 2) are due to the isotopic purity of the ¹³C-precursor.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:


B.G. Chittim

Date: 12/07/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17140813

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

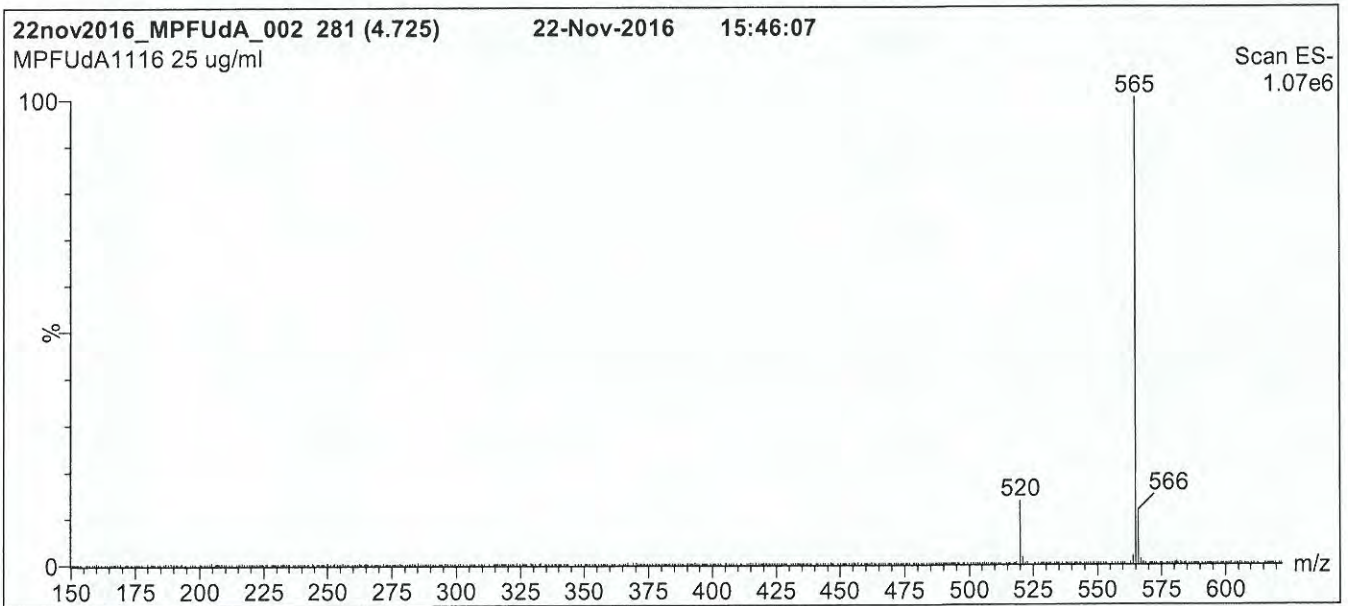
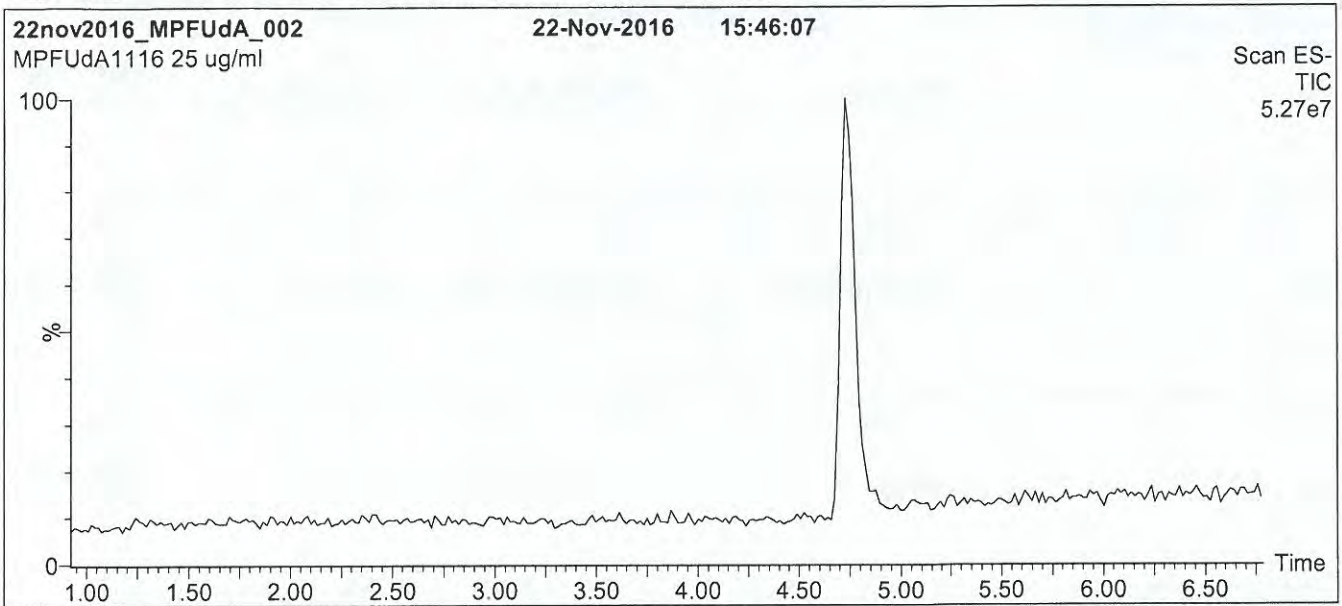
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K0813

Figure 1: MPFUdA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

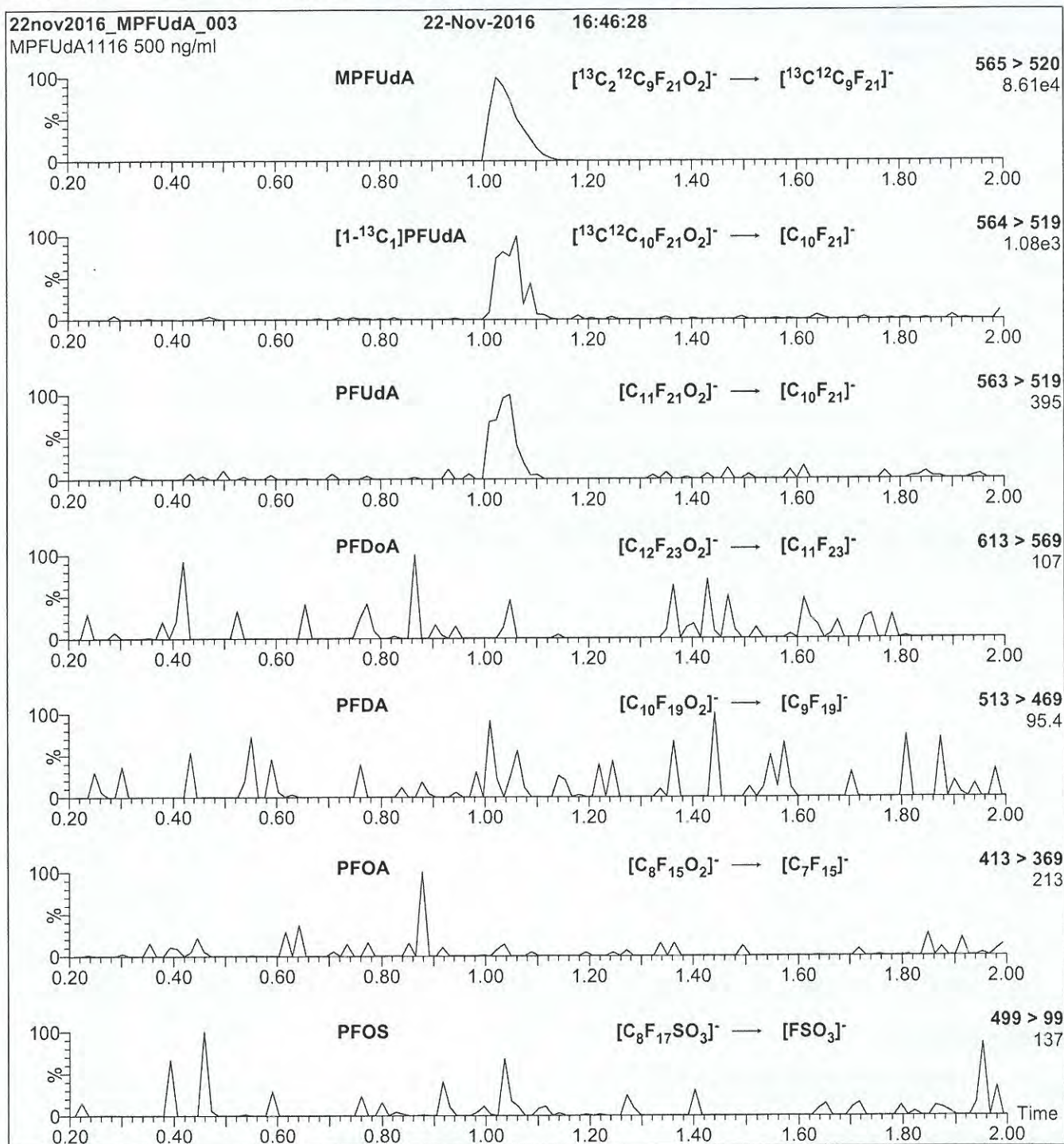
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 65
Desolvation Gas Flow (l/hr) = 750

17K0813

Figure 2: MPFUDa; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 μl (500 ng/ml MPFUDa)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
 (both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.46e-3
 Collision Energy (eV) = 11

17K0814

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

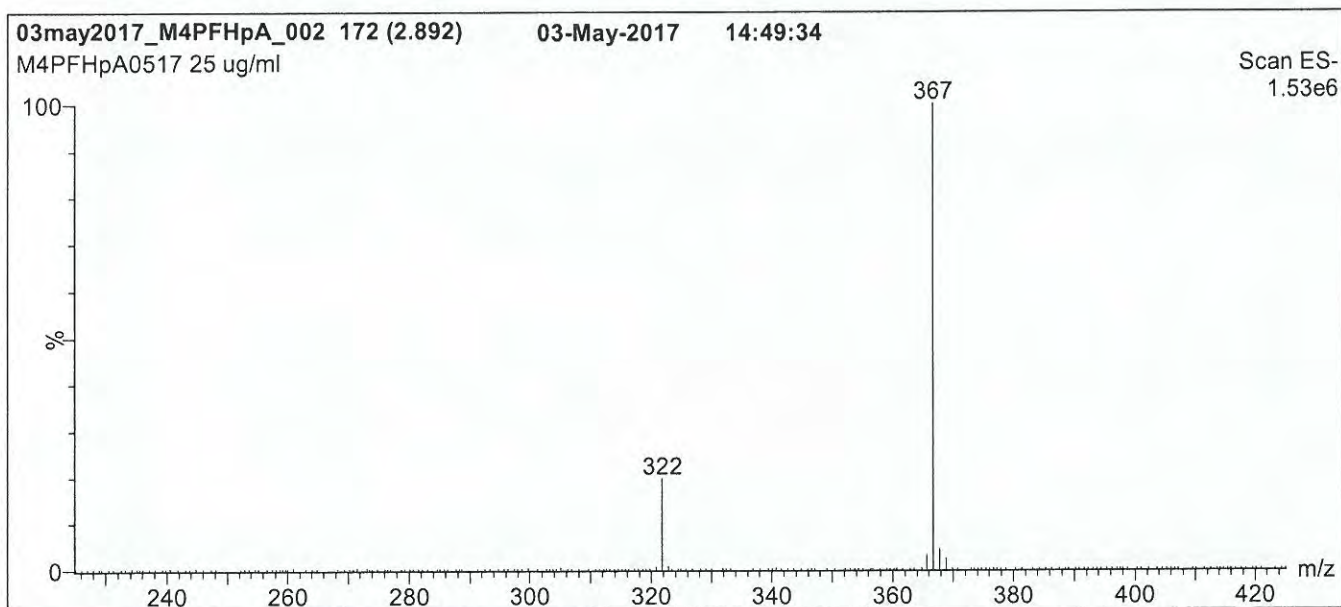
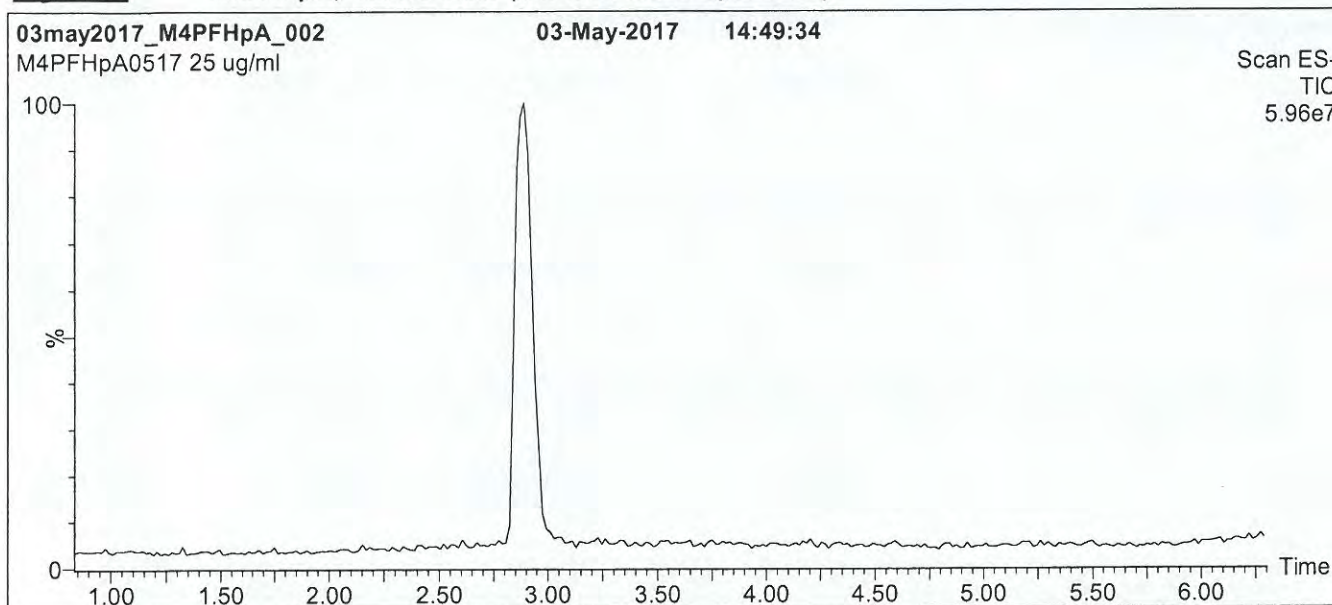
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K0814

Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

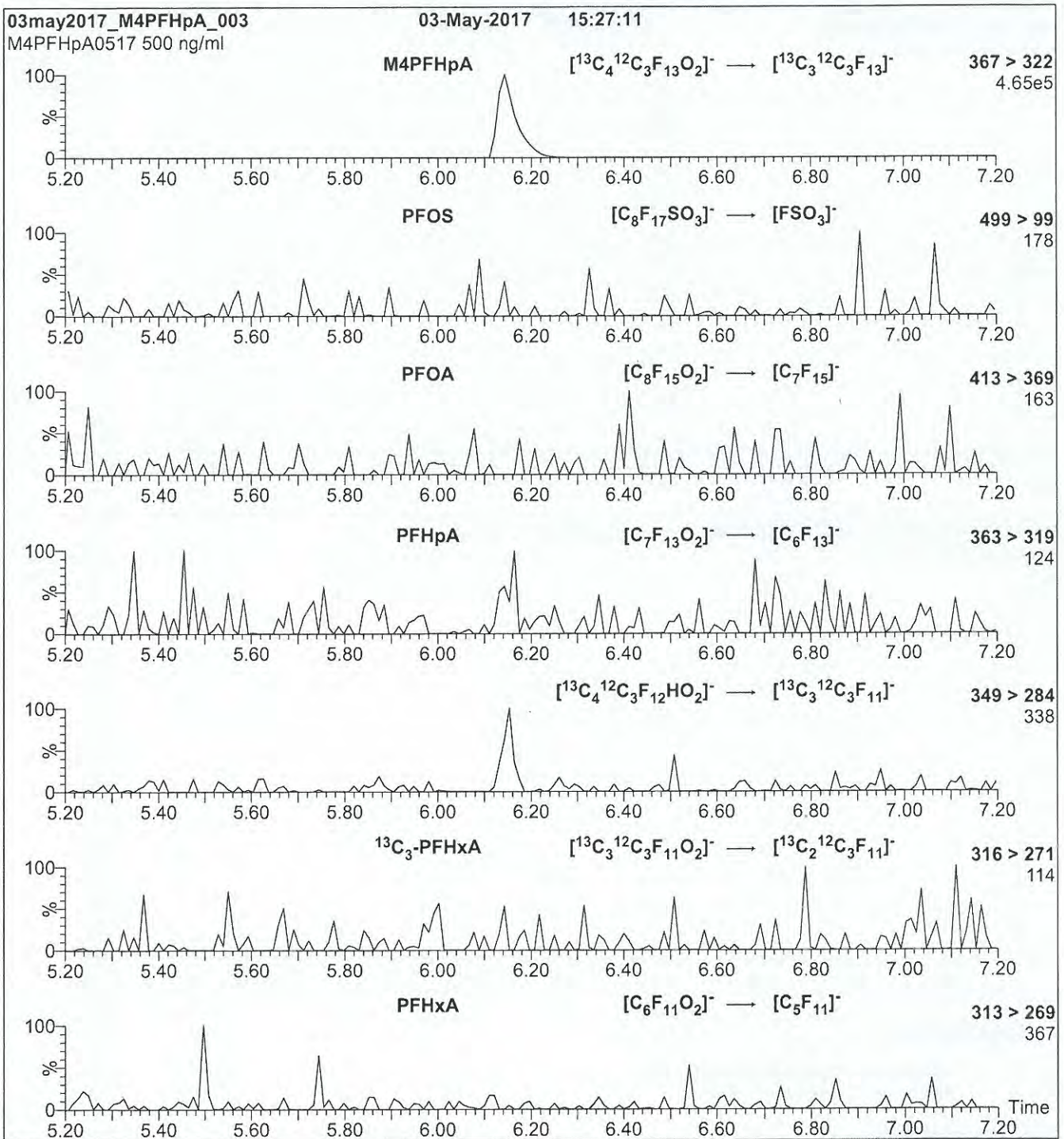
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K0814

Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M4PFHpA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.46e-3
Collision Energy (eV) = 9

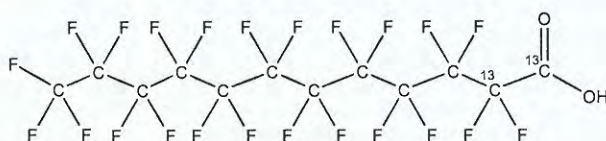
1710816



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: MPFDoA **LOT NUMBER:** MPFDoA0517
COMPOUND: Perfluoro-n-[1,2-¹³C₂]dodecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₁₀HF₂₃O₂ **MOLECULAR WEIGHT:** 616.08
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
 Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
 (1,2-¹³C₂)
LAST TESTED: (mm/dd/yyyy) 05/23/2017
EXPIRY DATE: (mm/dd/yyyy) 05/23/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

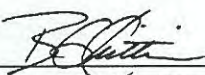
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 05/26/2017
 B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0816

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

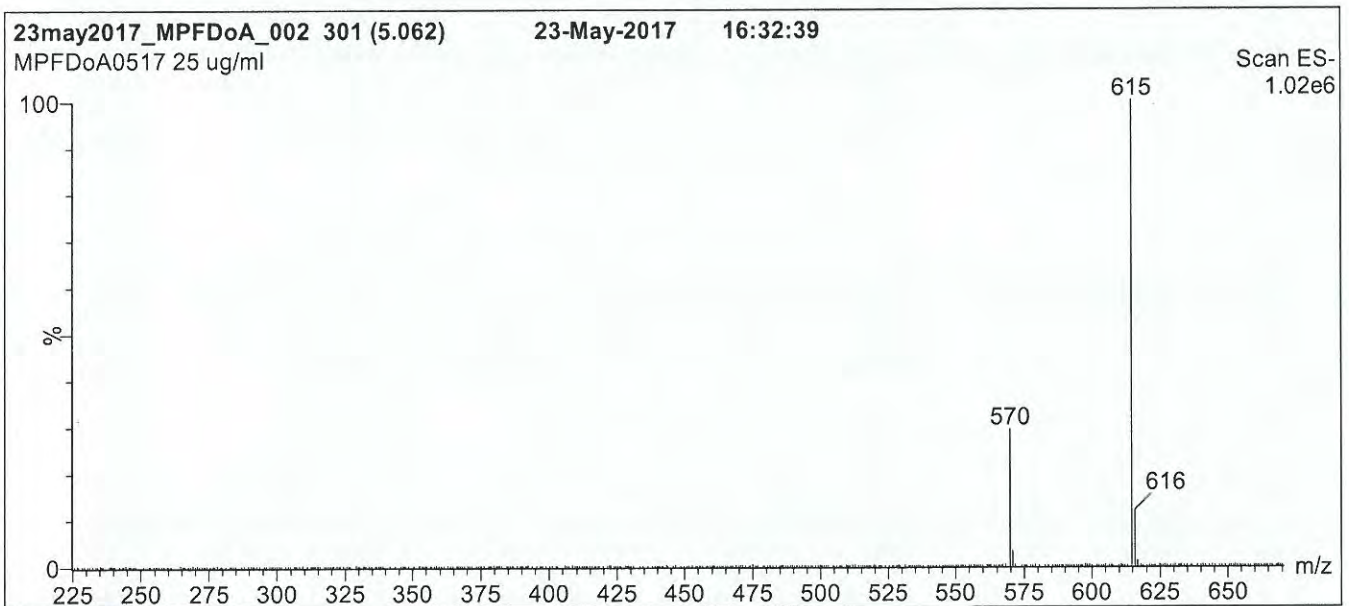
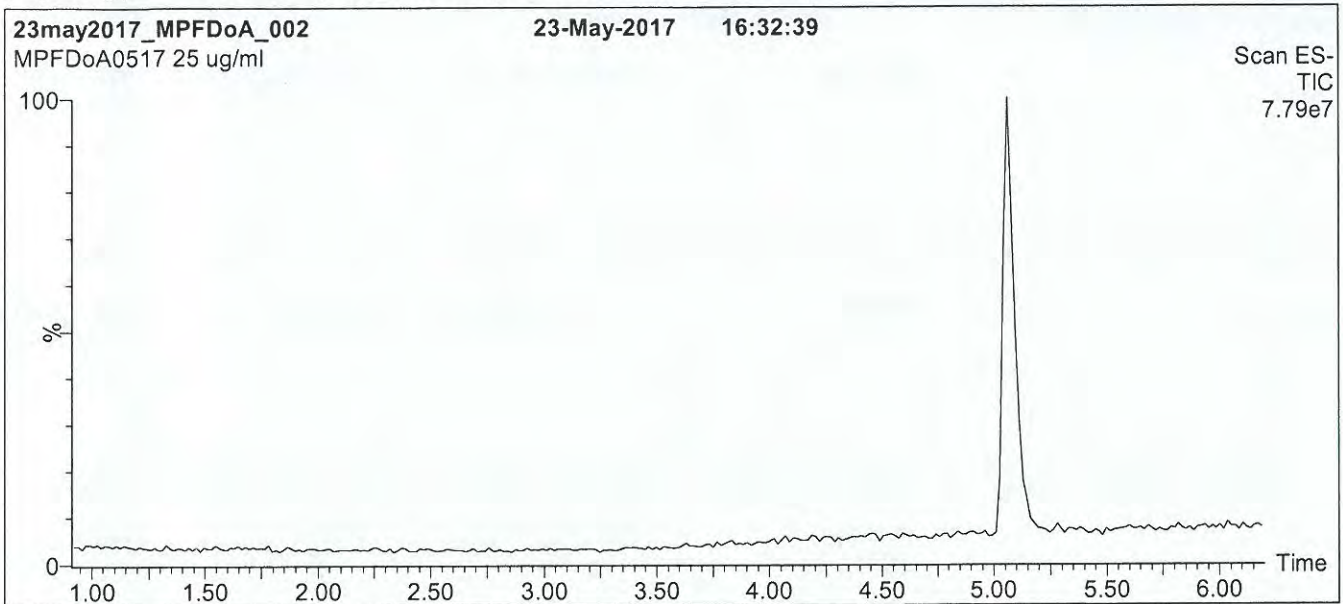
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K0816

Figure 1: MPFDoA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

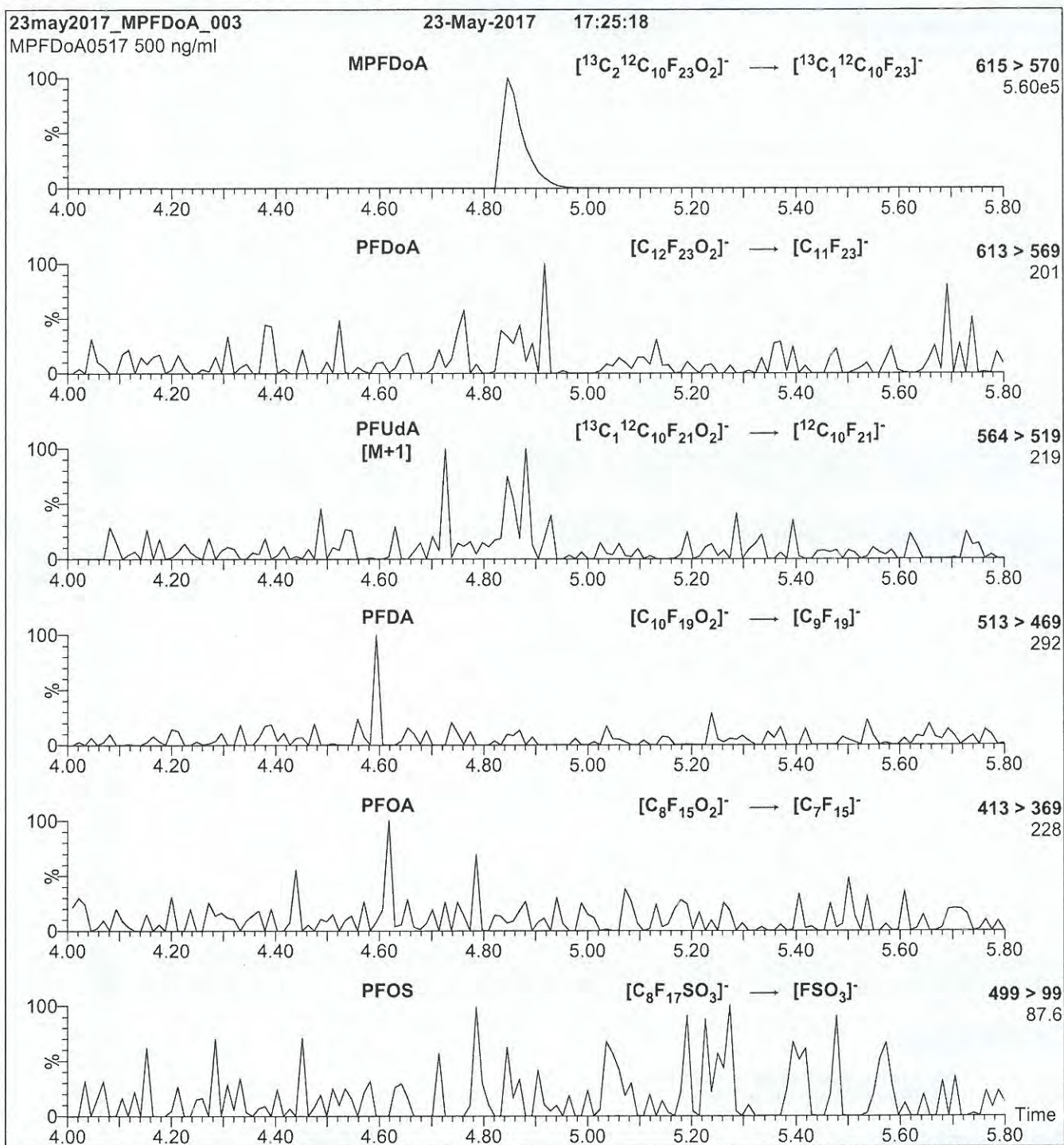
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 20.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17K0816

Figure 2: MPFDoA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MPFDoA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 13

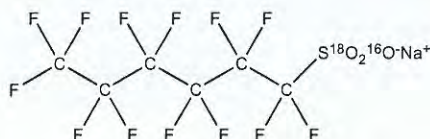
17K0818


WELLINGTON
 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: MPFHxS **LOT NUMBER:** MPFHxS0217
COMPOUND: Sodium perfluoro-1-hexane[¹⁸O₂]sulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: C₆F₁₃S¹⁸O₂¹⁶ONa **MOLECULAR WEIGHT:** 426.10
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.3 ± 2.4 µg/ml (MPFHxS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** >94% (¹⁸O₂)
LAST TESTED: (mm/dd/yyyy) 02/17/2017
EXPIRY DATE: (mm/dd/yyyy) 02/17/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- The response factor for MPFHxS (C₆F₁₃S¹⁸O₂¹⁶O) has been observed to be up to 10% lower than for PFHxS (C₆F₁₃S¹⁶O₃) when both compounds are injected together. This difference may vary between instruments.
- Contains ~ 1.0% of sodium perfluoro-1-octane[¹⁸O₂]sulfonate (¹⁸O₂-PFOS).
- Due to the isotopic purity of the starting material (¹⁸O₂ >94%), MPFHxS contains ~ 0.3% of PFHxS. This value agrees with the theoretical percent relative abundance that is expected based on the stated isotopic purity.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____

B.G. Chittim

Date: 03/02/2017
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0818

INTENDED USE:

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HOMOGENEITY:

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where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

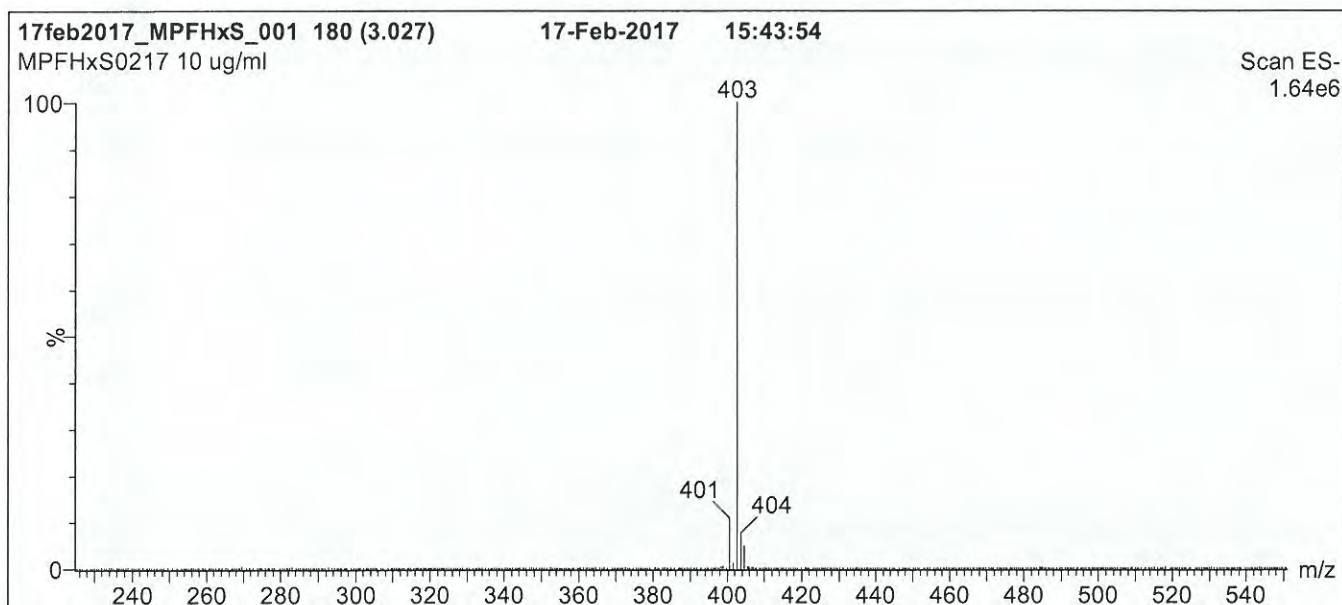
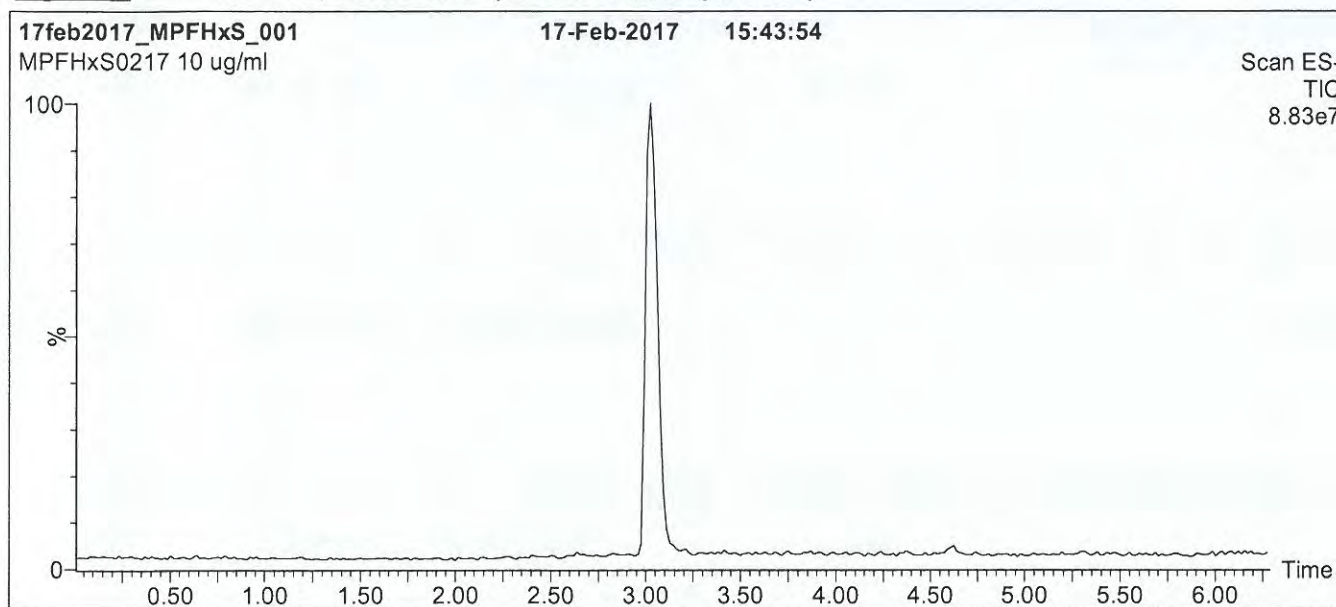
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17K0818

Figure 1: MPFHxS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

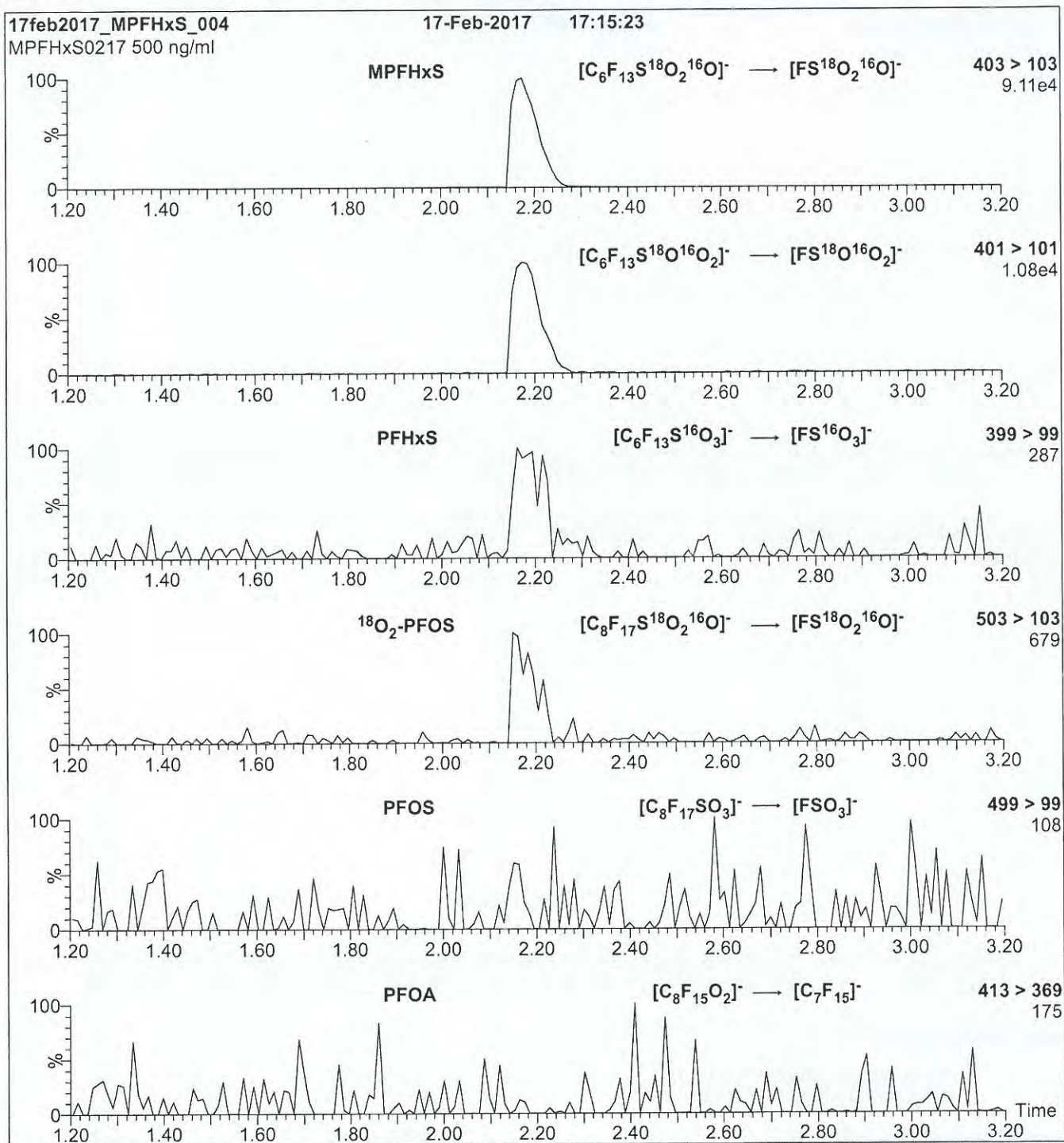
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 50.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17K0818

Figure 2: MPFHxS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 µl (500 ng/ml MPFHxS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

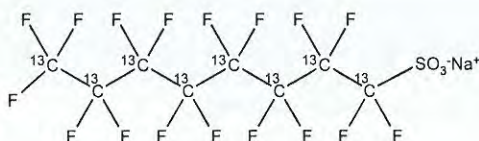
Collision Gas (mbar) = 3.43e-3
 Collision Energy (eV) = 30

17K0819


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CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: M8PFOS **LOT NUMBER:** M8PFOS0916
COMPOUND: Sodium perfluoro-1-[¹³C₈]octanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₈F₁₇SO₃Na **MOLECULAR WEIGHT:** 530.05
CONCENTRATION: 48.5 ± 2.4 µg/ml (Na salt) **SOLVENT(S):** Methanol
 46.4 ± 2.3 µg/ml (M8PFOS anion)
CHEMICAL PURITY: >97% **ISOTOPIC PURITY:** >99% ¹³C
LAST TESTED: (mm/dd/yyyy) 09/30/2016 (¹³C₈)
EXPIRY DATE: (mm/dd/yyyy) 09/30/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.6% of sodium perfluoro-1-[¹³C₇]heptanesulfonate (¹³C₇-PFHpS), ~ 1.0% of chlorohexadecafluoro-1-[¹³C₆]hexanesulfonate, and ~ 1.5% of sodium perfluoro-1-[¹³C₈]octanesulfonate (MPFOS).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim

 Date: 10/11/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K0819

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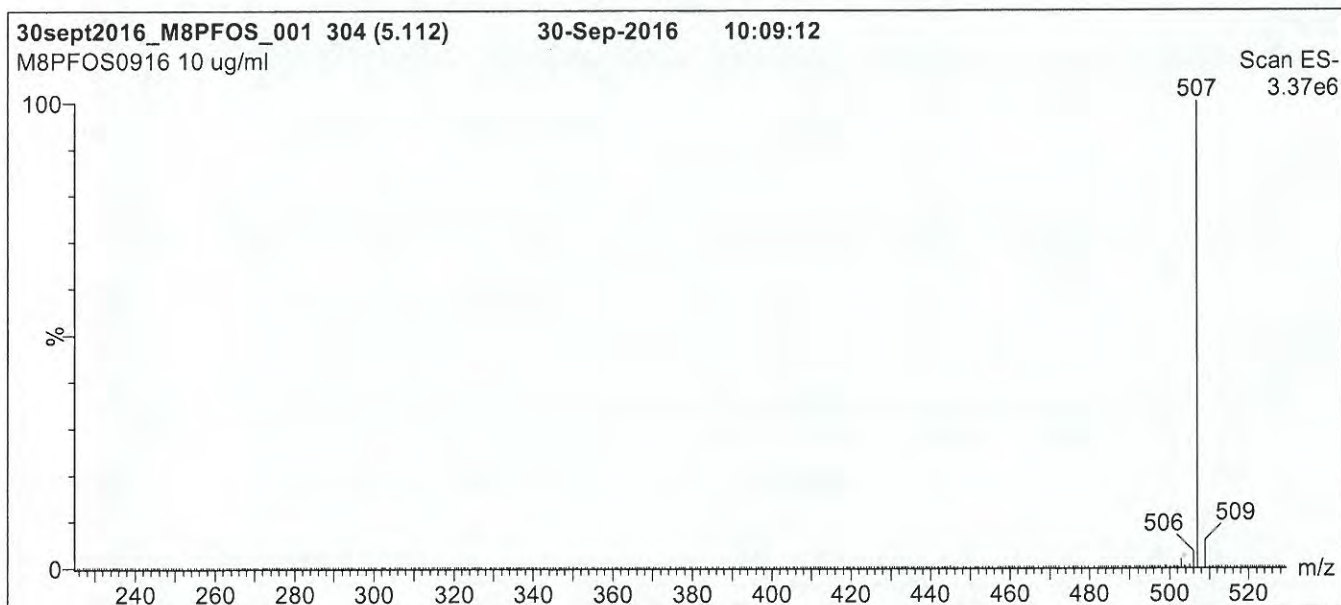
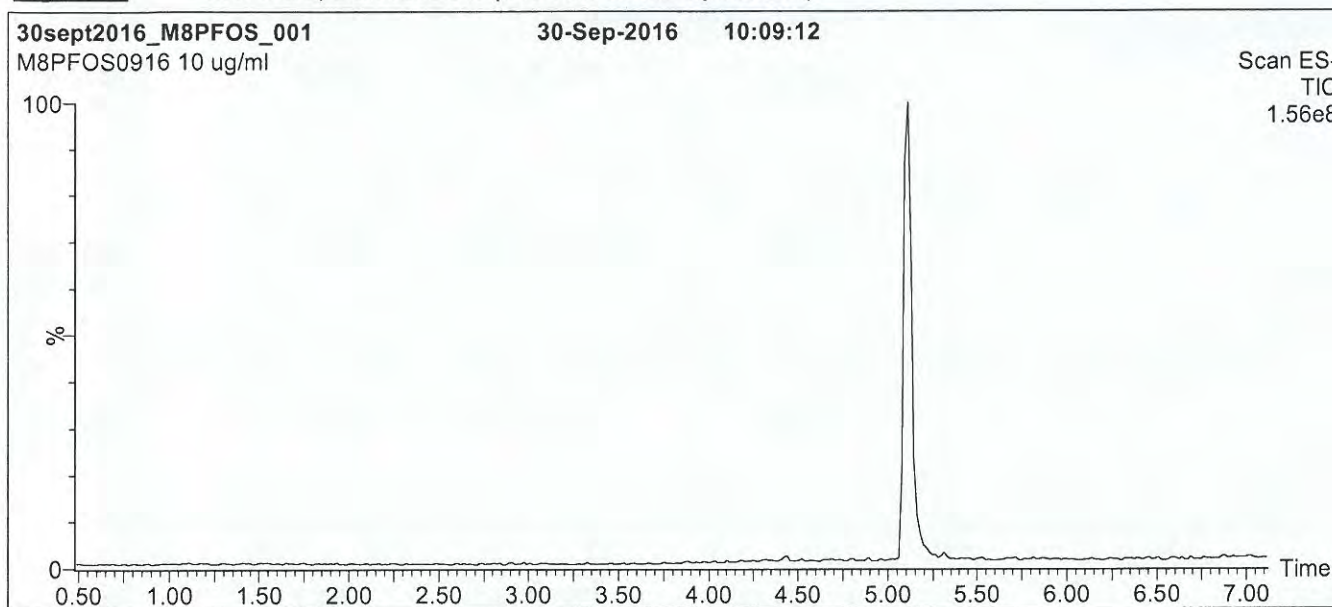
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17K0819

Figure 1: M8PFOS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

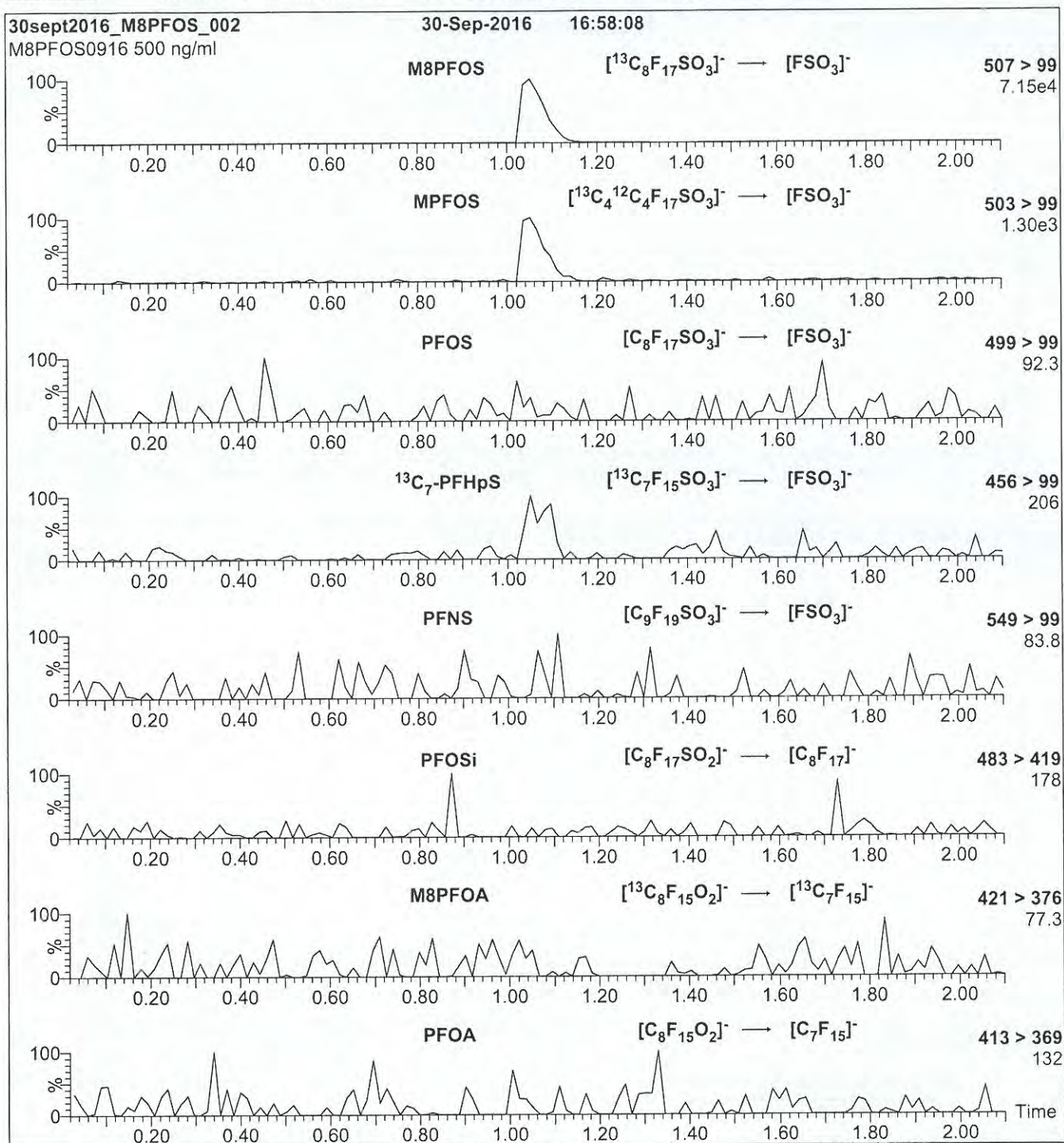
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K0819

Figure 2: M8PFOS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M8PFOS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 40

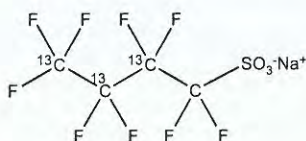
17K0821



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3PFBS **LOT NUMBER:** M3PFBS0815
COMPOUND: Sodium perfluoro-1-[2,3,4-¹³C₃]butanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²CF₉SO₃Na **MOLECULAR WEIGHT:** 325.06
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
46.5 ± 2.3 µg/ml (M3PFBS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 05/24/2017 (2,3,4-¹³C₃)
EXPIRY DATE: (mm/dd/yyyy) 05/24/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

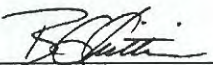
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 05/25/2017
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17120821

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

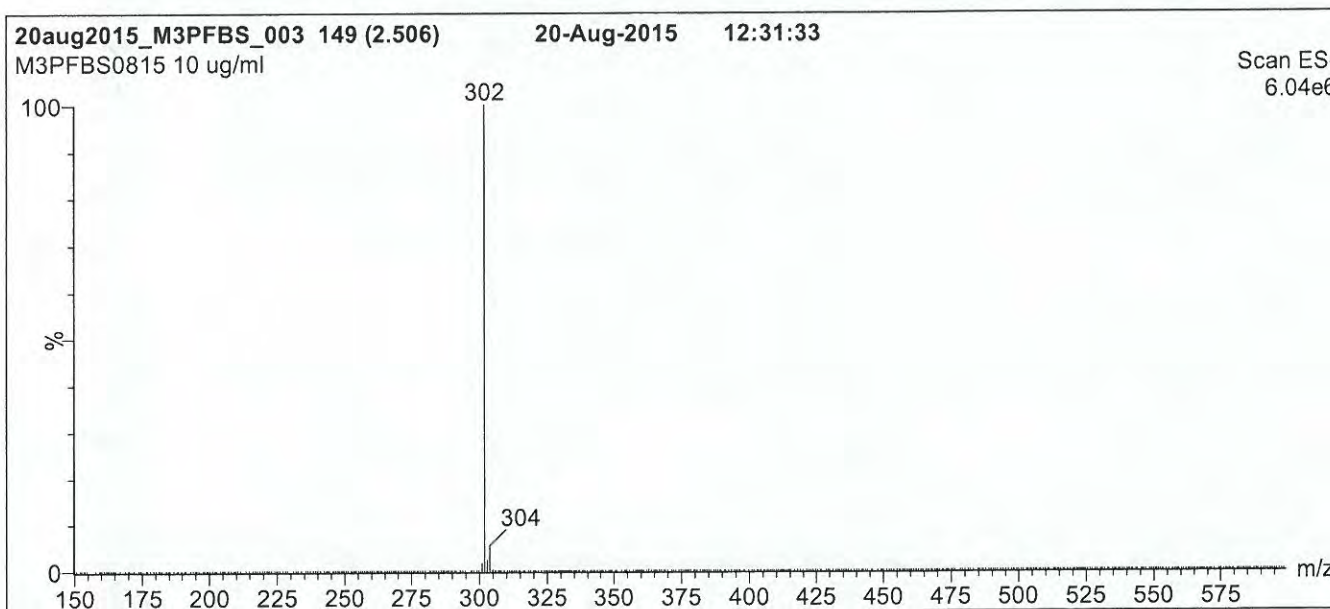
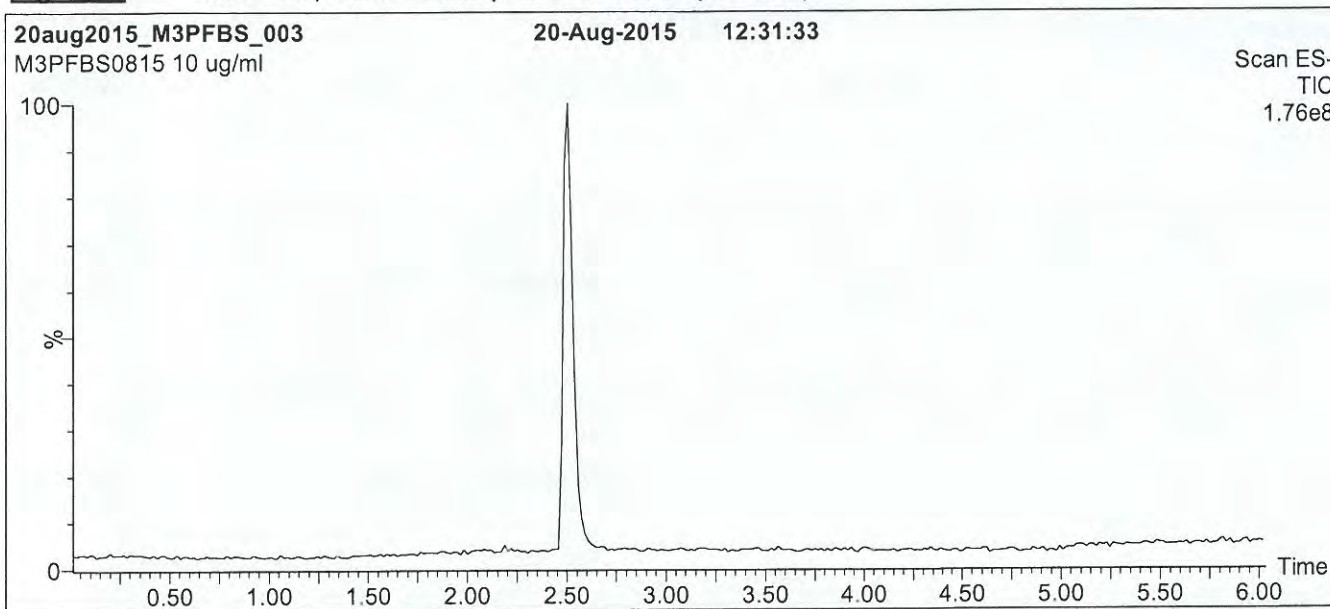
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

(710821)

Figure 1: M3PFBS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% (80:20 MeOH:ACN) / 60% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for
2 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

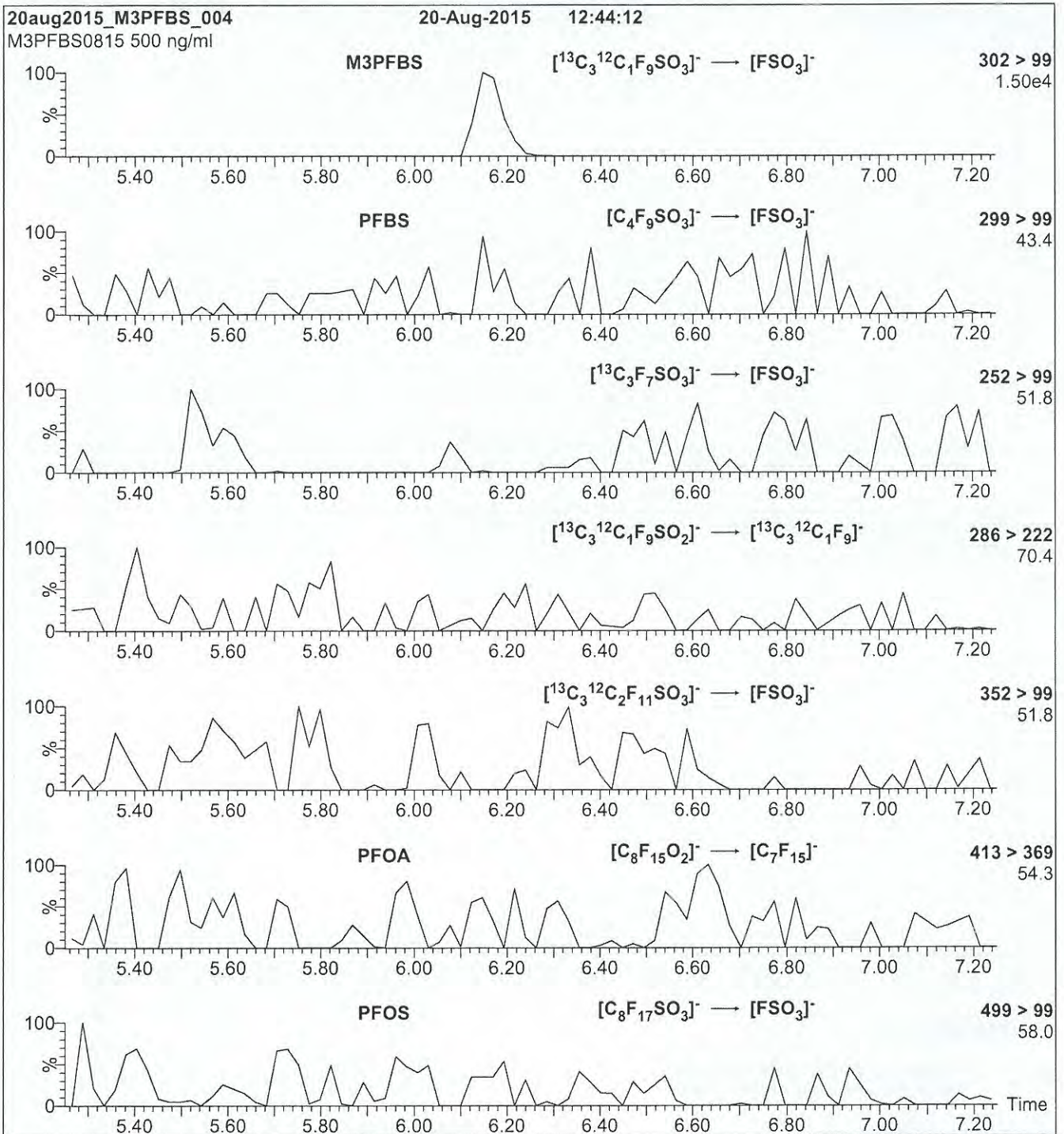
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K0821

Figure 2: M3PFBS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M3PFBS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 25

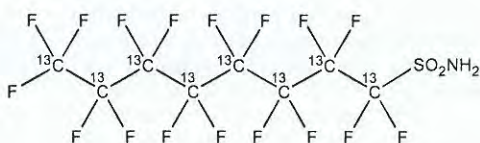
17K3038



WELLINGTON
LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: M8FOSA-I **LOT NUMBER:** M8FOSA10171
COMPOUND: Perfluoro-1-[¹³C₈]octanesulfonamide
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₈H₂F₁₇NO₂S **MOLECULAR WEIGHT:** 507.09
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Isopropanol
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 10/11/2017 (¹³C₈)
EXPIRY DATE: (mm/dd/yyyy) 10/11/2022
RECOMMENDED STORAGE: Refrigerate ampoule

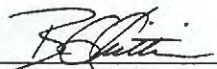
DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 1.1% of perfluoro-1-[¹³C₄]octanesulfonamide and ~ 0.01% of perfluoro-1-[¹³C₇]heptanesulfonamide.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:  **Date:** 10/20/2017
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17K3038

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

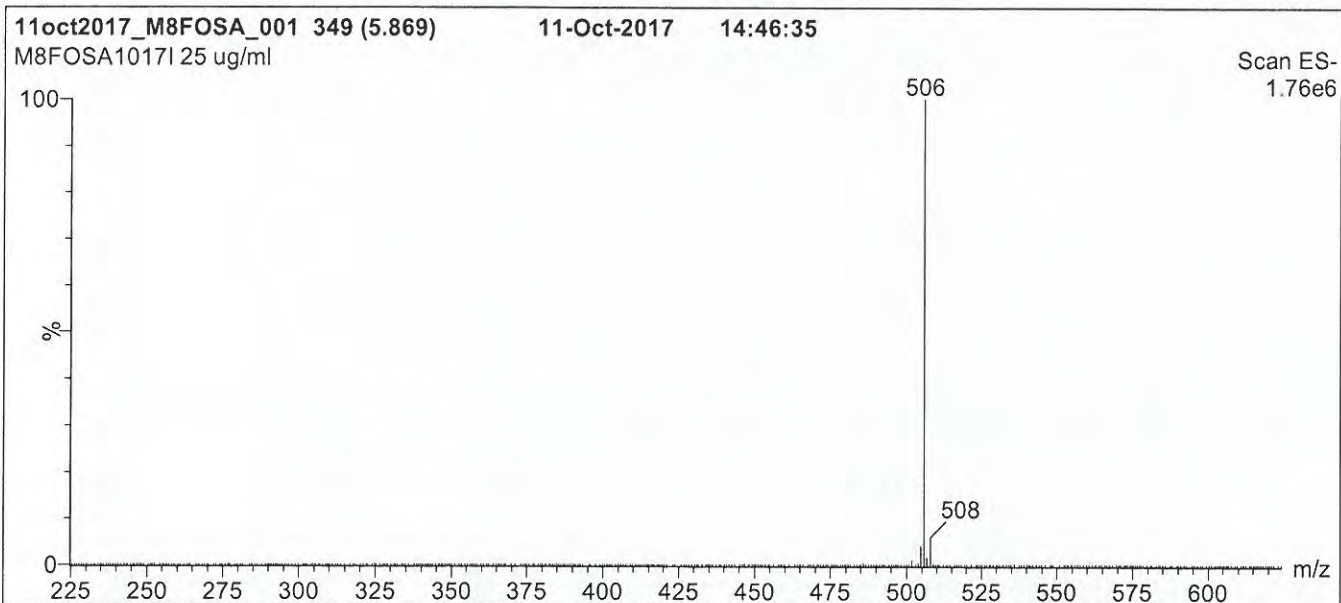
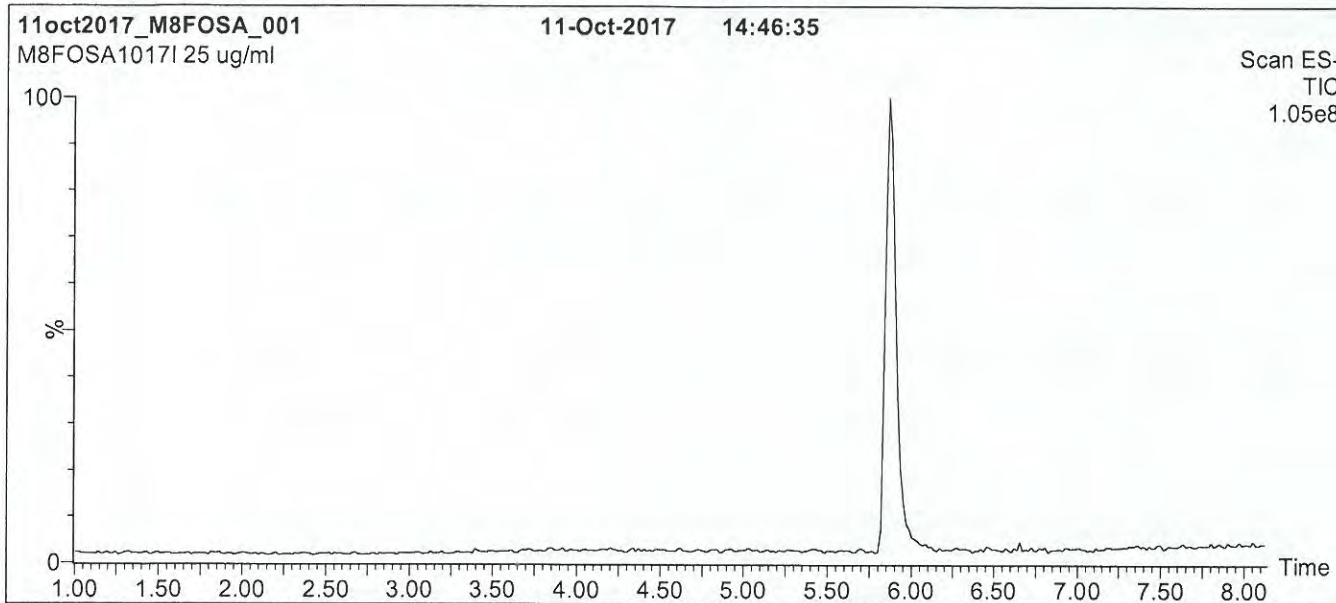
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K3038

Figure 1: M8FOSA-I; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 85% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

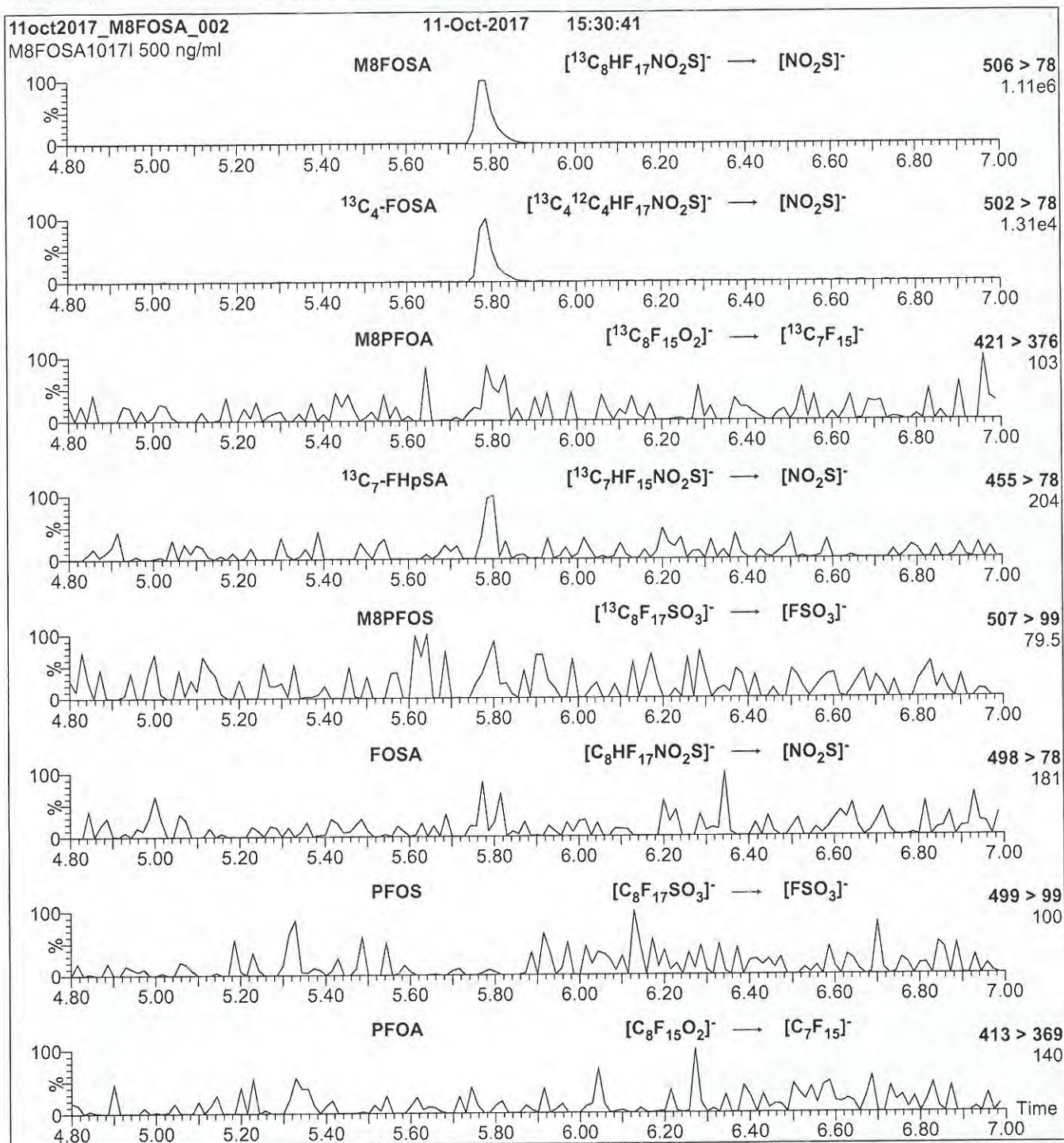
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = 40.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17K3038

Figure 2: M8FOSA-I; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M8FOSA-I)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 30

17K3039

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

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Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

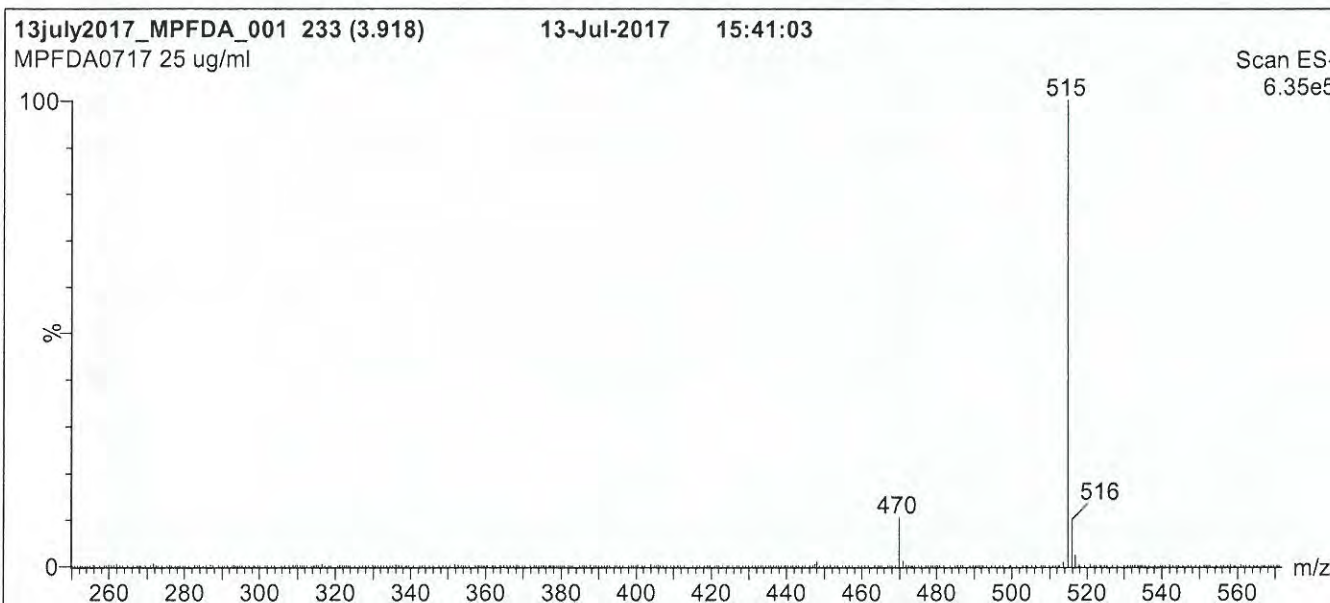
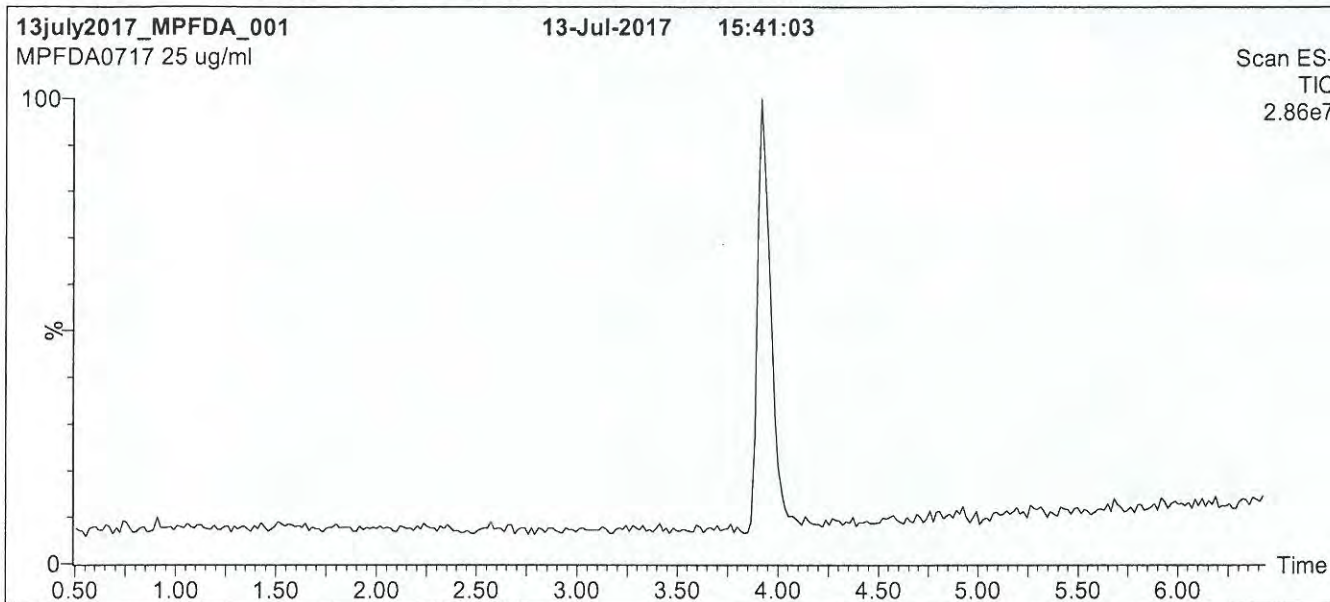
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K3039

Figure 1: MPFDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
 1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient
 Start: 55% (80:20 MeOH:ACN) / 45% H₂O
 (both with 10 mM NH₄OAc buffer)
 Ramp to 90% organic over 7 min and hold for 2 min
 before returning to initial conditions in 0.5 min.
 Time: 10 min

Flow: 300 μl/min

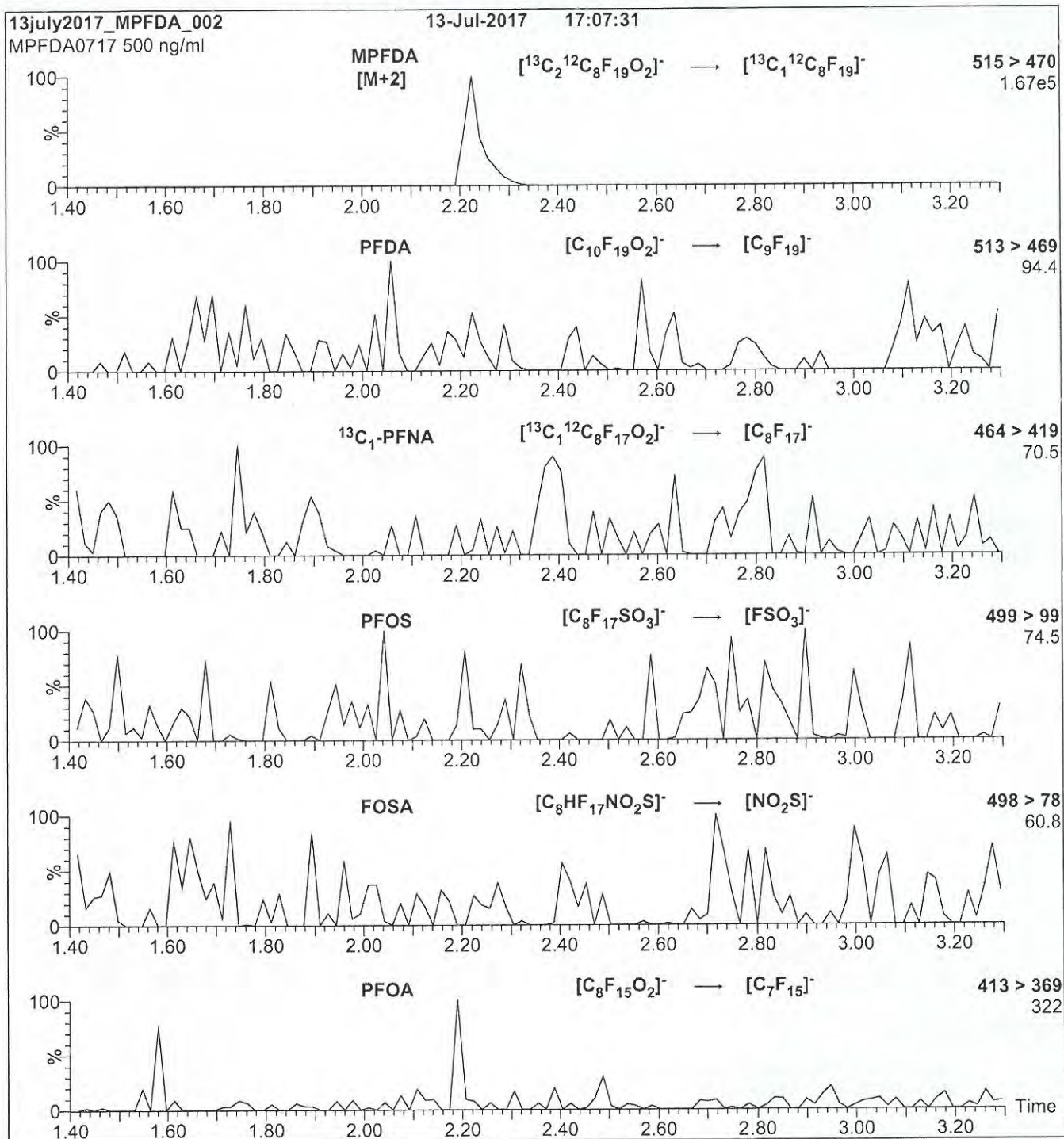
MS Parameters

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
 Capillary Voltage (kV) = 3.00
 Cone Voltage (V) = 15.00
 Cone Gas Flow (l/hr) = 50
 Desolvation Gas Flow (l/hr) = 750

17K3039

Figure 2: MPFDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MPFDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.17e-3
Collision Energy (eV) = 13

17K3040

INTENDED USE:

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HAZARDS:

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where x is expressed as a relative standard uncertainty of the individual parameter.

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TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

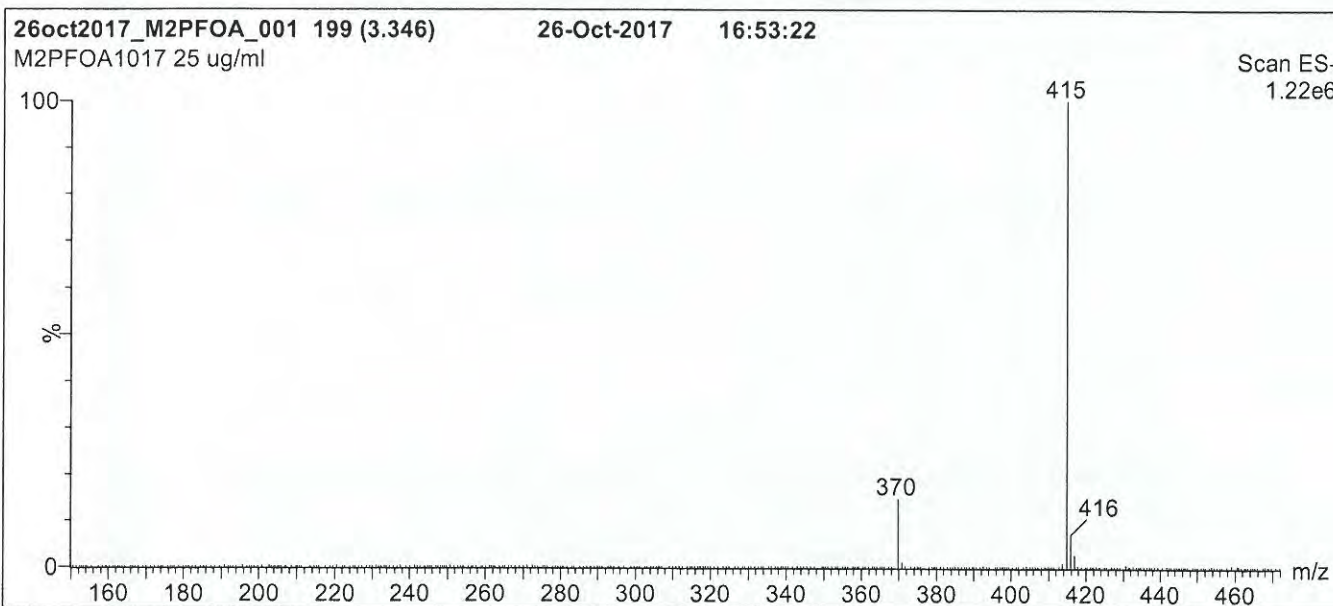
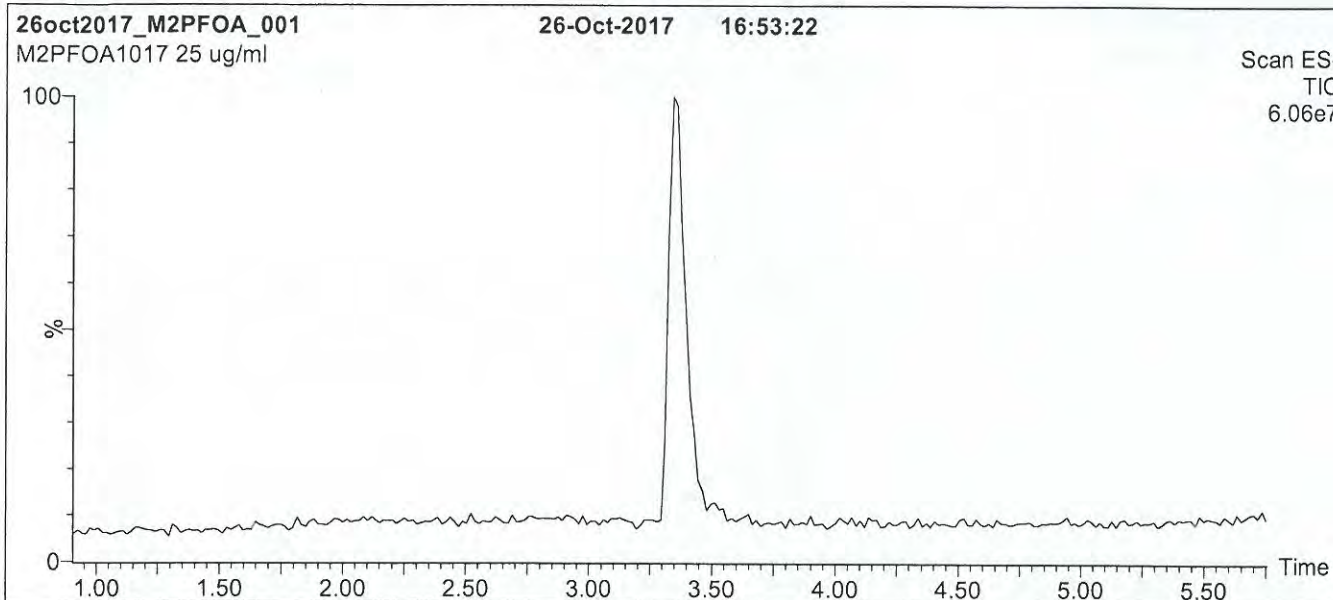
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K3040

Figure 1: M2PFOA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

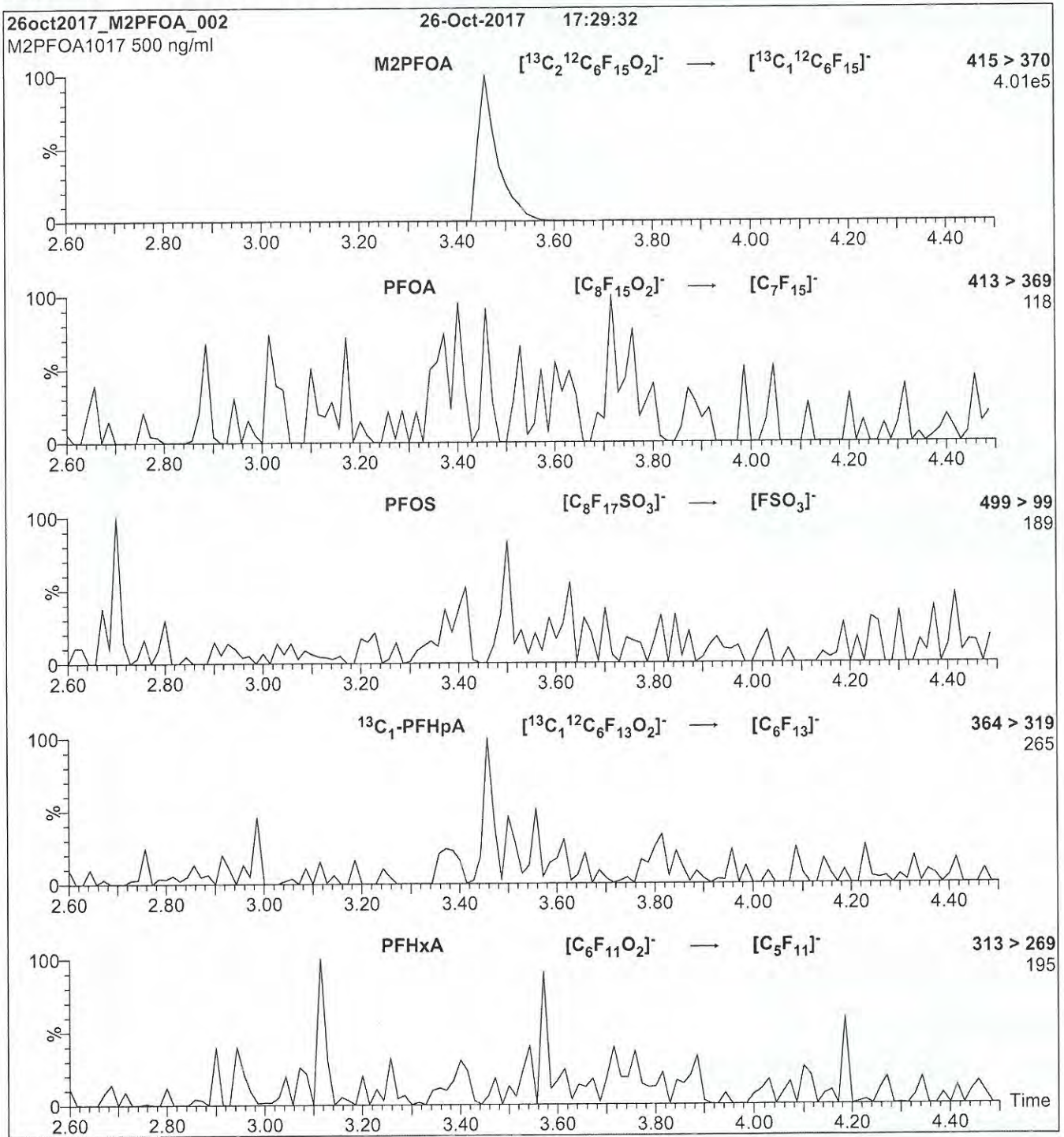
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17K 3040

Figure 2: M2PFOA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M2PFOA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 10

17K3041

INTENDED USE:

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HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters

x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

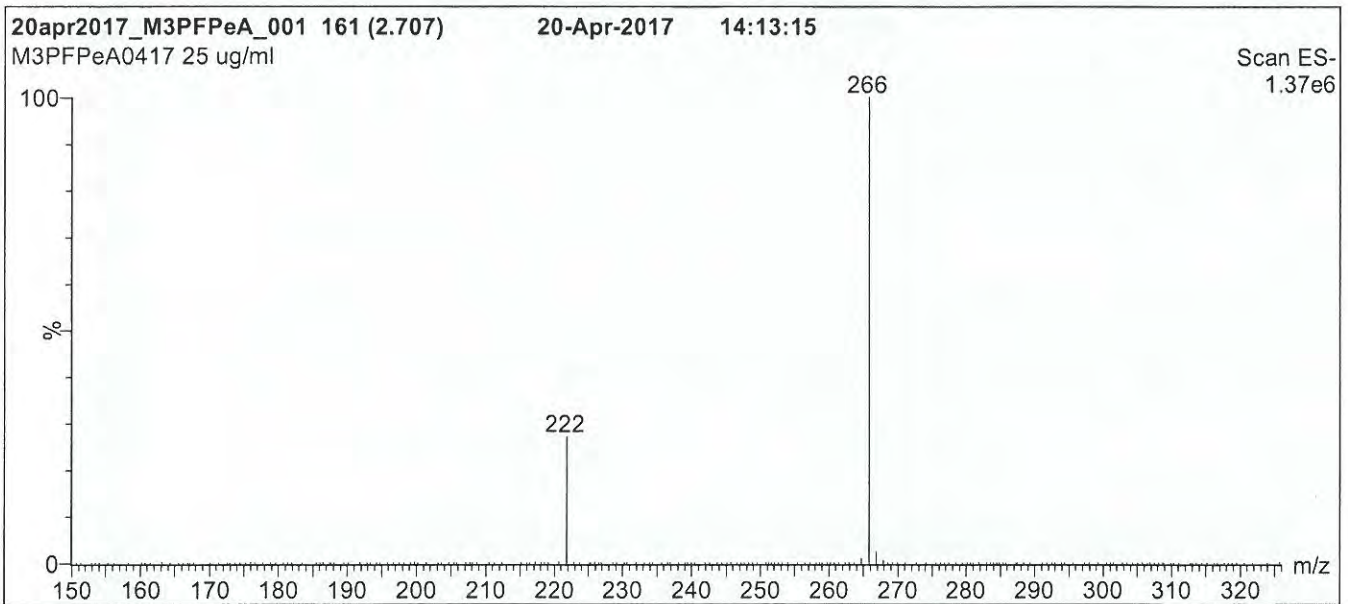
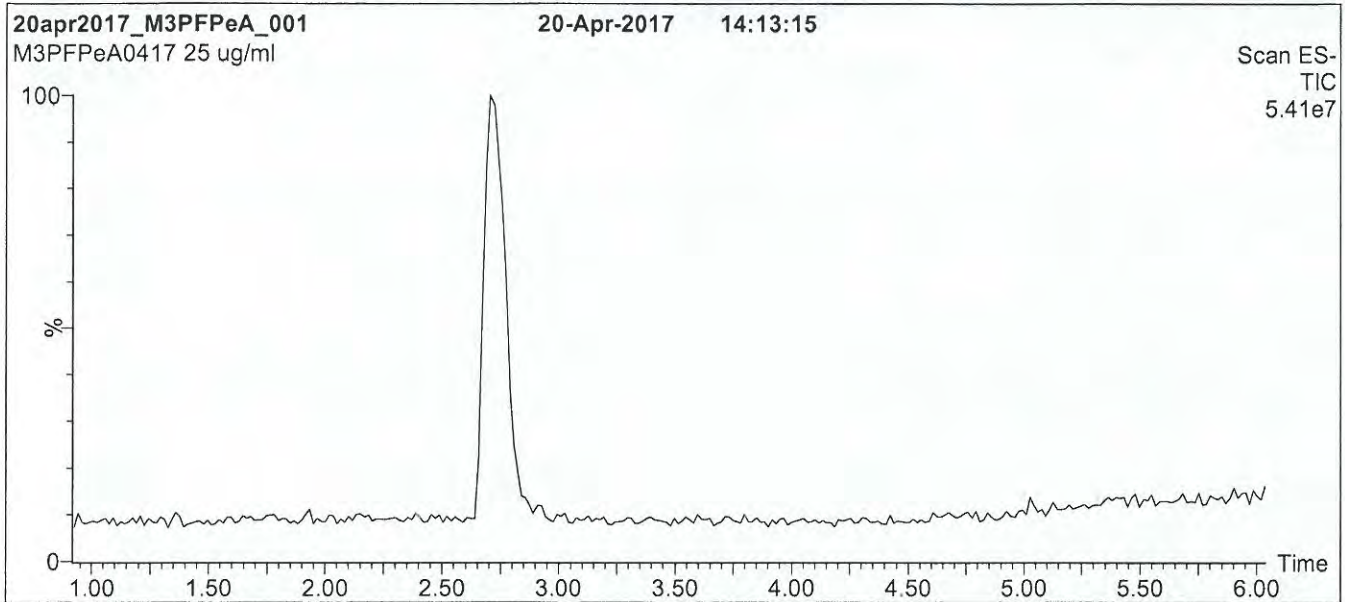
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17K3041

Figure 1: M3PFPeA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% (80:20 MeOH:ACN) / 60% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for
2 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

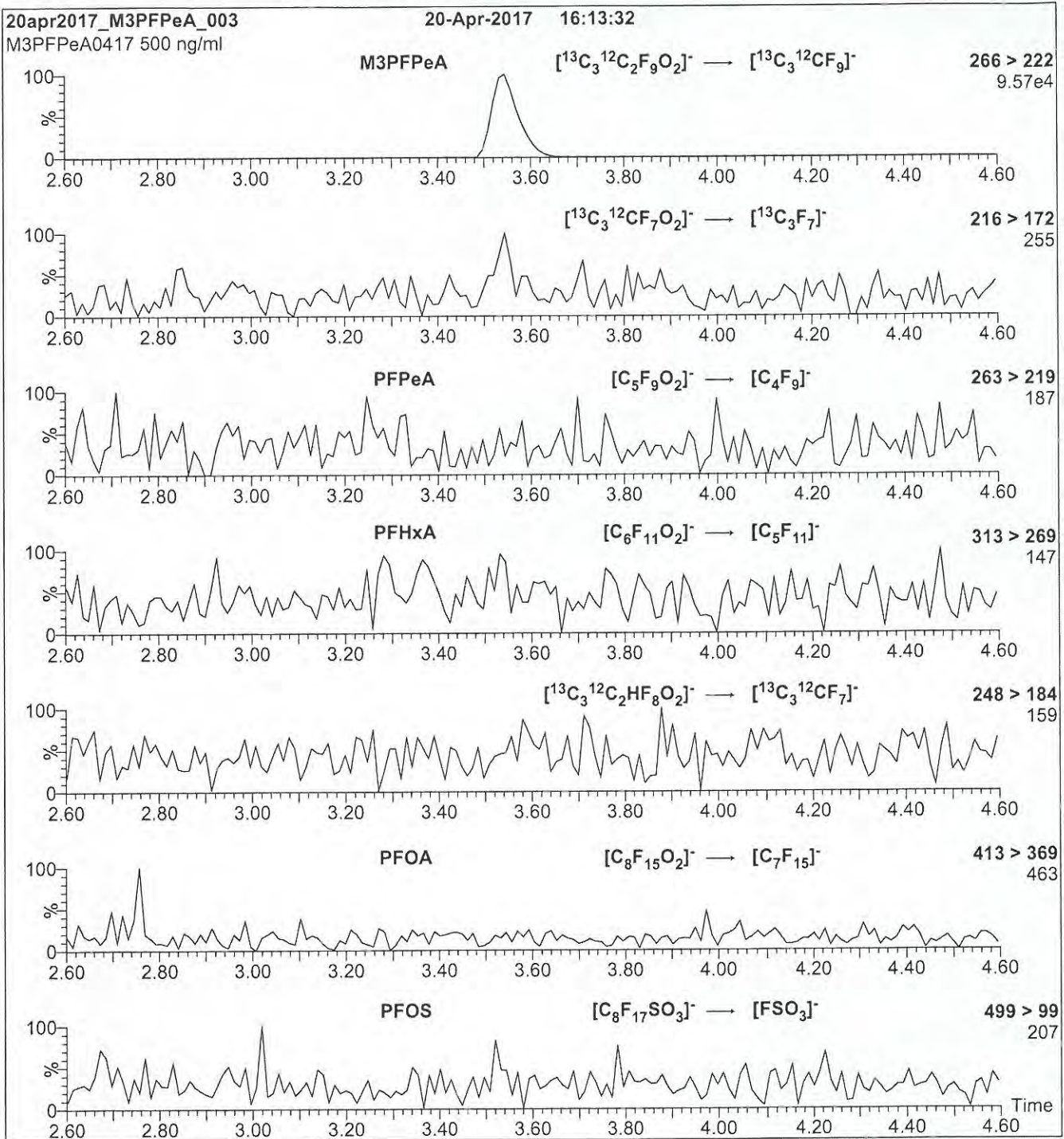
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17K3041

Figure 2: M3PFPeA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M3PFPeA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 9

Analytical Standard Record

Vista Analytical Laboratory

17K2502

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	(mls)
17J0526	13C6-PFDA	05-Oct-17	** Vendor **	31-May-21	0.5
17J0527	13C8-PFOA	05-Oct-17	** Vendor **	05-Jul-22	0.51
17J1018	13C4-PFBA	10-Oct-17	** Vendor **	12-Apr-22	0.5
17J1019	13C5-PFHxA	10-Oct-17	** Vendor **	27-Aug-19	0.5
17J1020	13C9-PFNA	10-Oct-17	** Vendor **	23-May-22	0.5
17J1021	13C7-PFUDa	10-Oct-17	** Vendor **	13-Jul-22	0.5
17J1022	13C3-PFHxS	10-Oct-17	** Vendor **	05-Jul-22	0.53
17J1023	13C4-PFOS	10-Oct-17	** Vendor **	19-May-22	0.525
17J1024	13C2-FOUEA	10-Oct-17	** Vendor **	02-Aug-18	0.5

Description:	PFC-RS	Expires:	25-Nov-19
Standard Type:	Reagent	Prepared:	25-Nov-17
Solvent:	MeOH	Prepared By:	Isaac N. Johnson
Final Volume (mls):	20	Department:	LCMS
Vials:	1	Last Edit:	25-Nov-17 10:25 by INJ

Analyte	CAS Number	Concentration	Units
13C9-PFNA		1.25	ug/mL
13C8-PFOA		1.25	ug/mL
13C7-PFUnA		1.25	ug/mL
13C6-PFDA		1.25	ug/mL
13C5-PFHxA		1.25	ug/mL
13C4-PFOS		1.25	ug/mL
13C4-PFBA		1.25	ug/mL
13C3-PFHxS		1.25	ug/mL
13C2-FOUEA		1.25	ug/mL

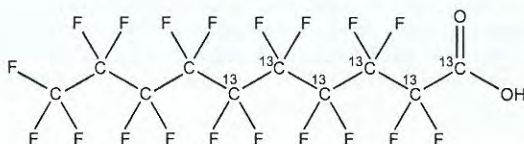
17J0526



**WELLINGTON
LABORATORIES**

**CERTIFICATE OF ANALYSIS
DOCUMENTATION**

PRODUCT CODE: M6PFDA **LOT NUMBER:** M6PFDA0516
COMPOUND: Perfluoro-n-[1,2,3,4,5,6-¹³C₆]decanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₆¹²C₄HF₁₉O₂ **MOLECULAR WEIGHT:** 520.04
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 05/31/2016 (1,2,3,4,5,6-¹³C₆)
EXPIRY DATE: (mm/dd/yyyy) 05/31/2021
RECOMMENDED STORAGE: Store ampoule in a cool, dark place


DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim **Date:** 06/13/2016
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J0526

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

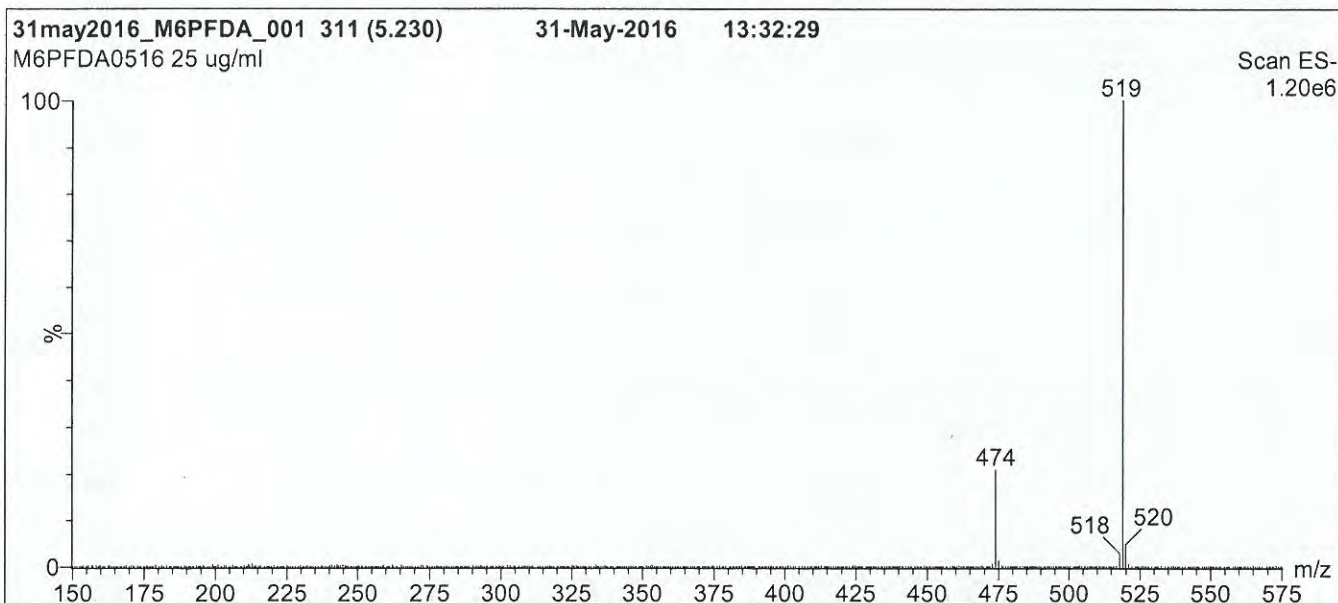
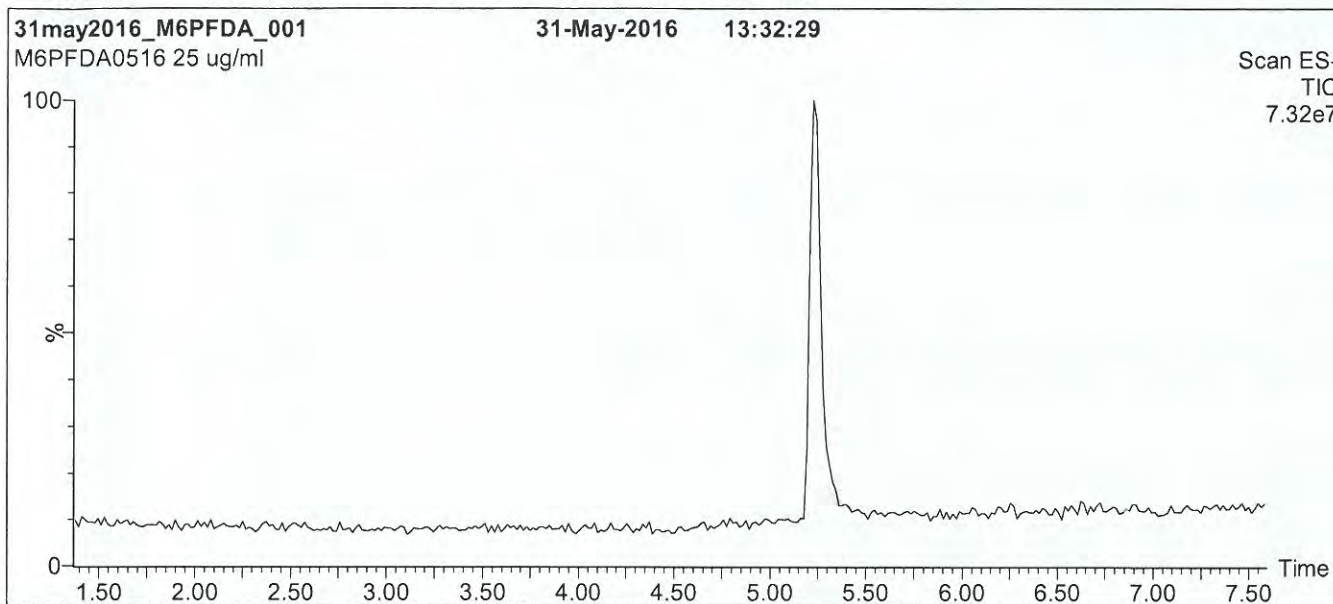
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17J0526

Figure 1: M6PFDA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

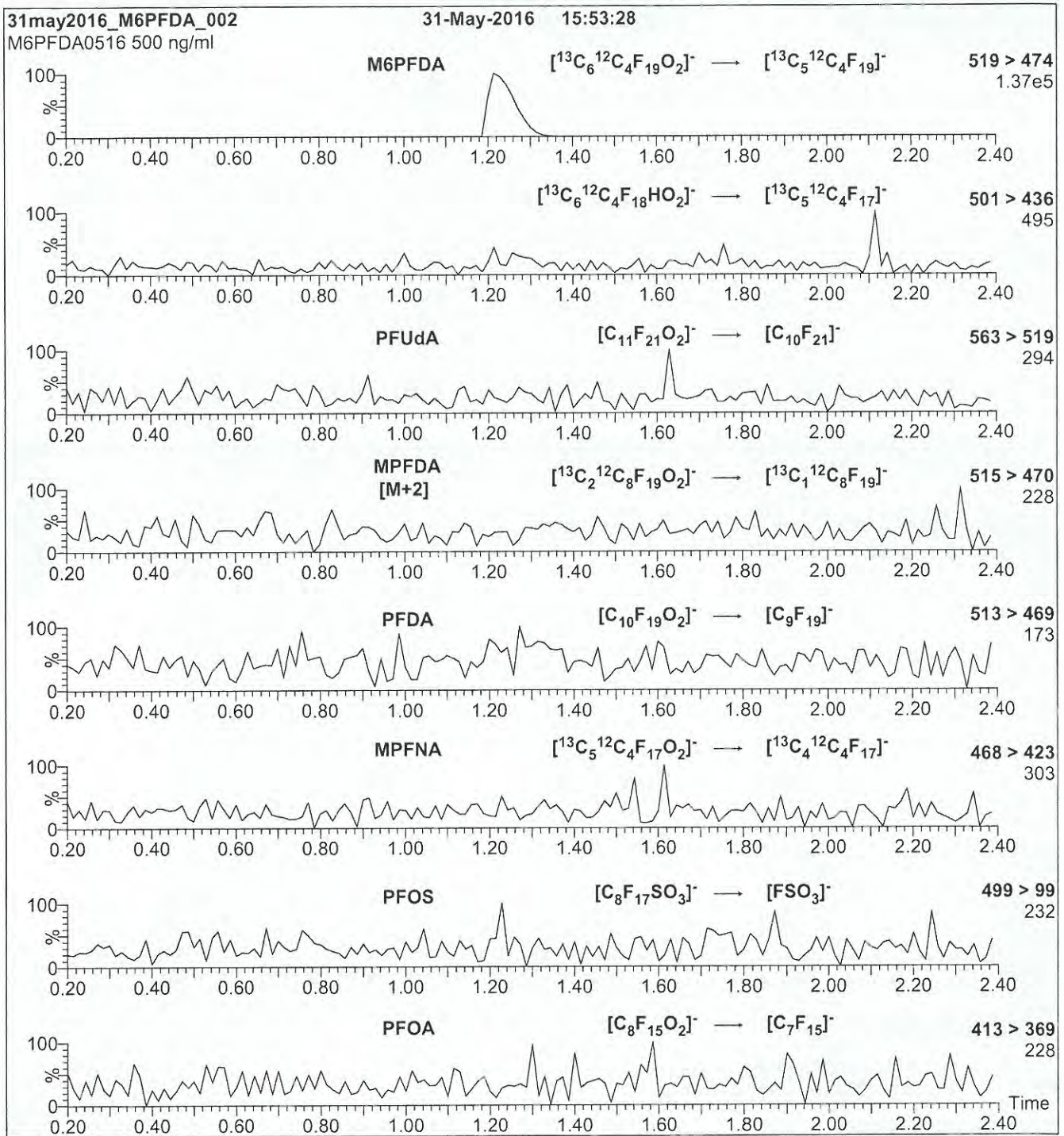
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

17J0526

Figure 2: M6PFDA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M6PFDA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 13

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17J0527



WELLINGTON LABORATORIES

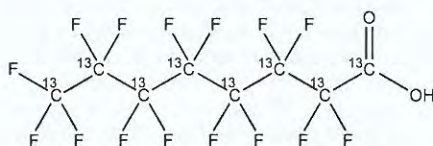
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M8PFOA
COMPOUND: Perfluoro-n-[¹³C₈]octanoic acid

LOT NUMBER: M8PFOA0717

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: ¹³C₈HF₁₅O₂
CONCENTRATION: 49 ± 2.45 µg/ml

MOLECULAR WEIGHT: 422.01
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: 97.9% (M8PFOA)
2.1% (MPFOA [M+4])

ISOTOPIC PURITY: ≥99% ¹³C
(¹³C₈)

LAST TESTED: (mm/dd/yyyy) 07/05/2017

EXPIRY DATE: (mm/dd/yyyy) 07/05/2022

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains < 0.1% of native perfluoro-n-octanoic acid (PFOA) and ~ 2.1% of [M+4] perfluoro-n-octanoic acid.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:
B.G. Chittim, General Manager

Date: 07/14/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J0527

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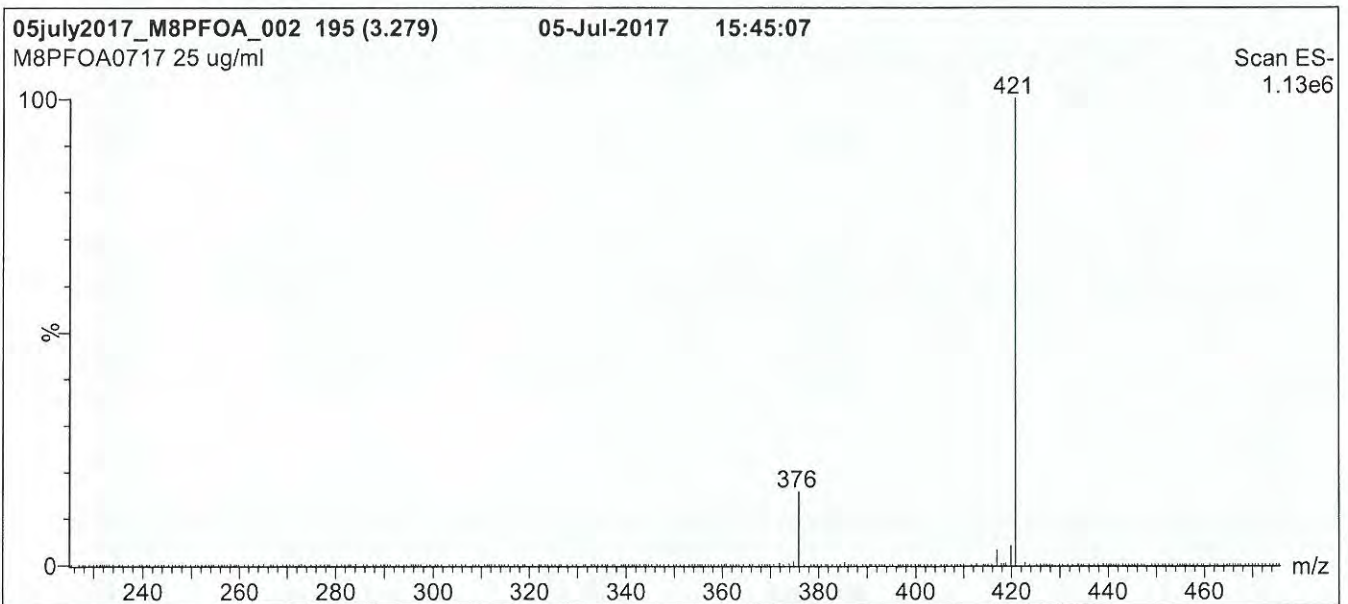
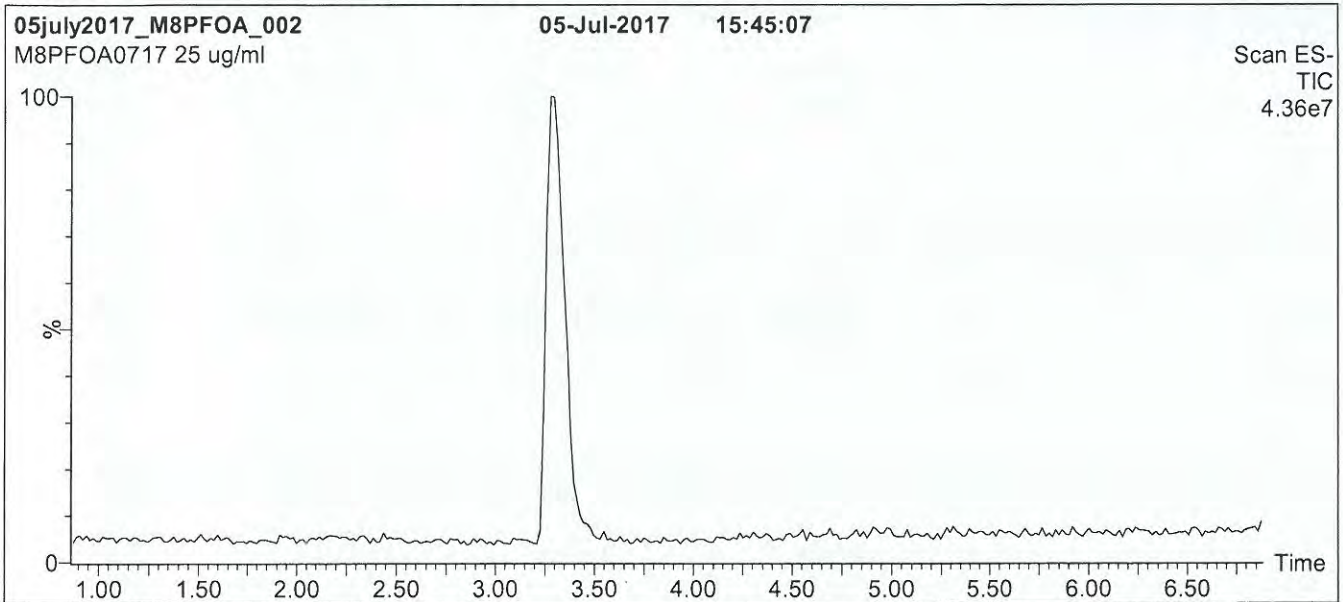
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17J0527

Figure 1: M8PFOA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

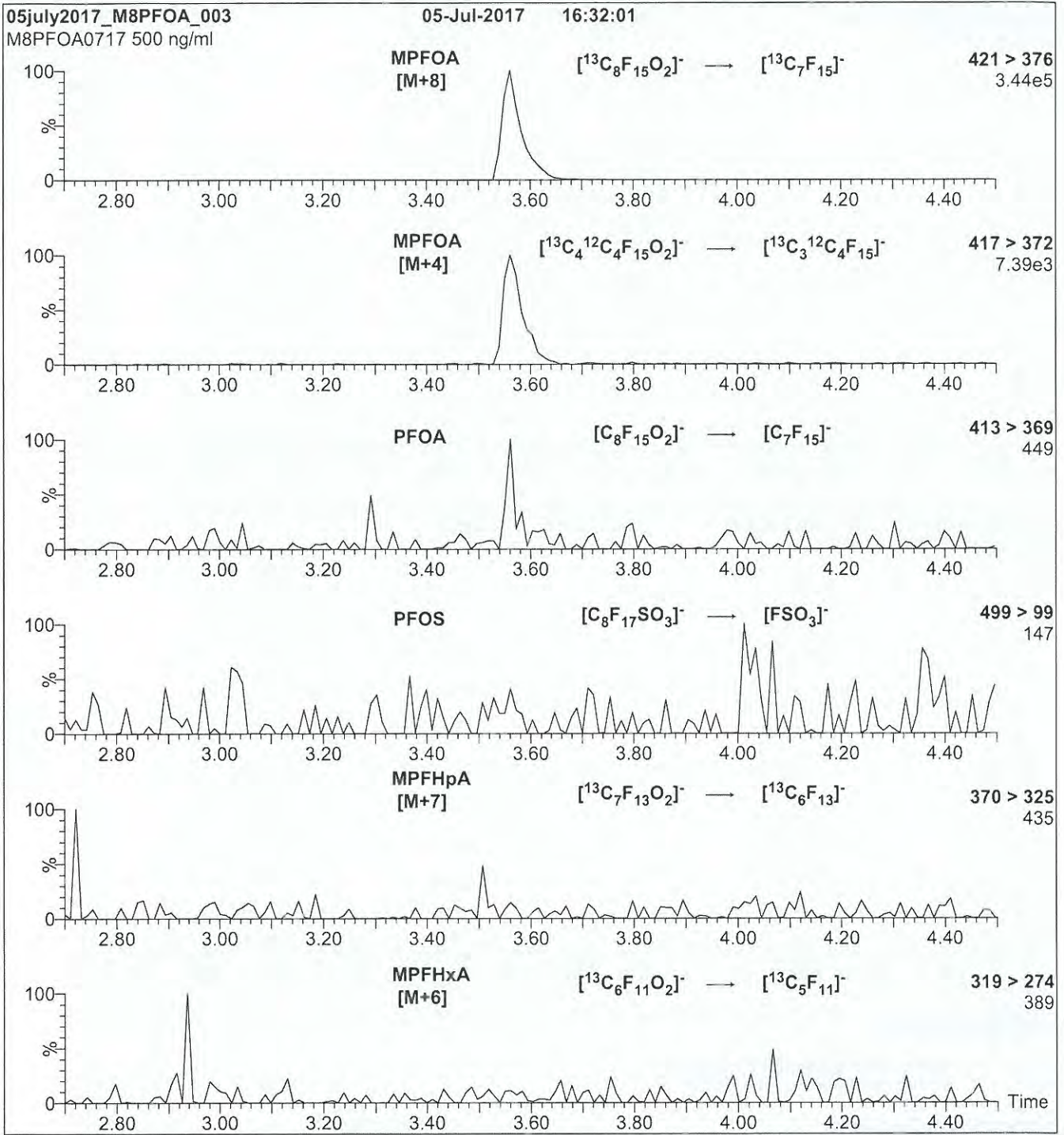
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17J0527

Figure 2: M8PFOA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
 10 µl (500 ng/ml M8PFOA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
 (both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.28e-3
 Collision Energy (eV) = 10

17J1018



WELLINGTON
LABORATORIES

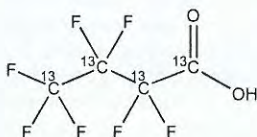
CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: MPFBA
COMPOUND: Perfluoro-n-[1,2,3,4-¹³C₄]butanoic acid

LOT NUMBER: MPFBA0417

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: ¹³C₄HF₇O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 218.01
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 04/12/2017

ISOTOPIC PURITY: ≥99%¹³C
(1,2,3,4-¹³C₄)

EXPIRY DATE: (mm/dd/yyyy) 04/12/2022

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

- Figure 1: LC/MS Data (TIC and Mass Spectrum)
- Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: 
B.G. Chittim, General Manager

Date: 04/20/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J1018

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This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

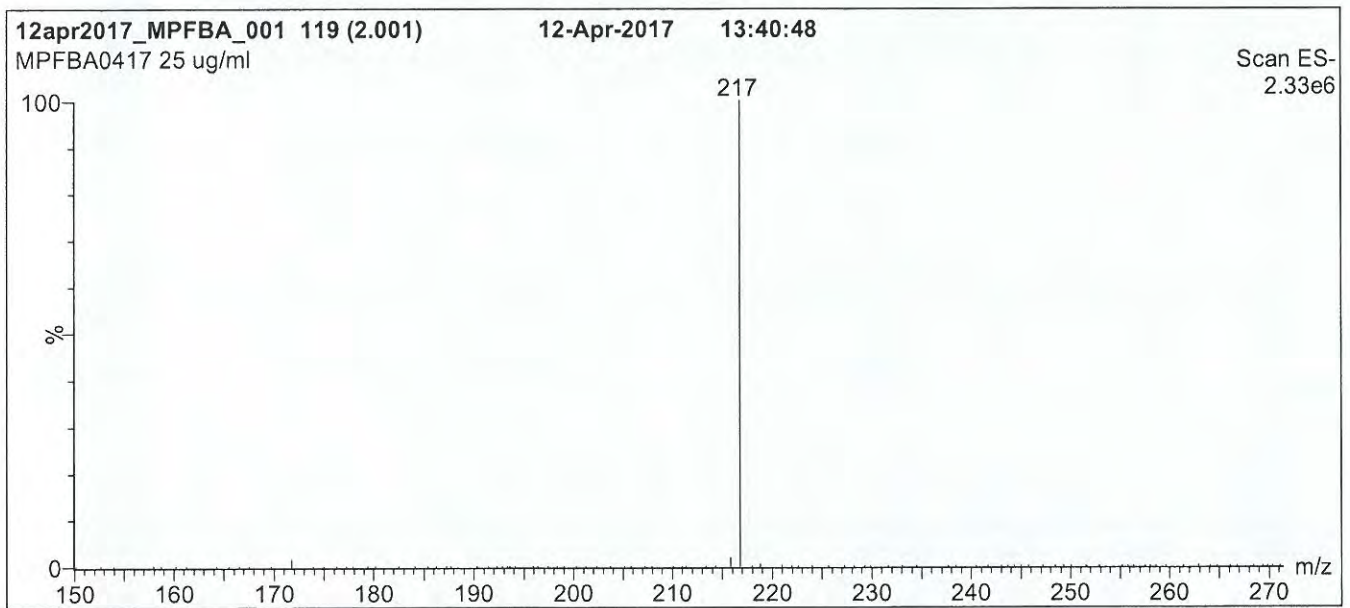
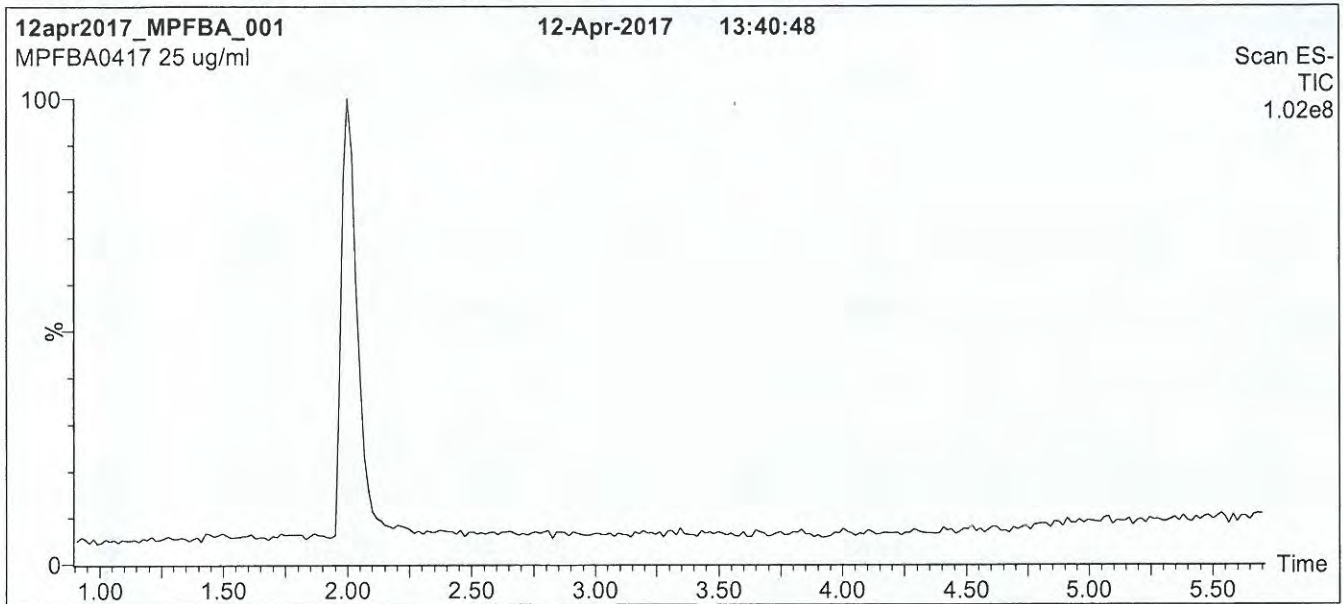
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17J1018

Figure 1: MPFBA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 30% (80:20 MeOH:ACN) / 70% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

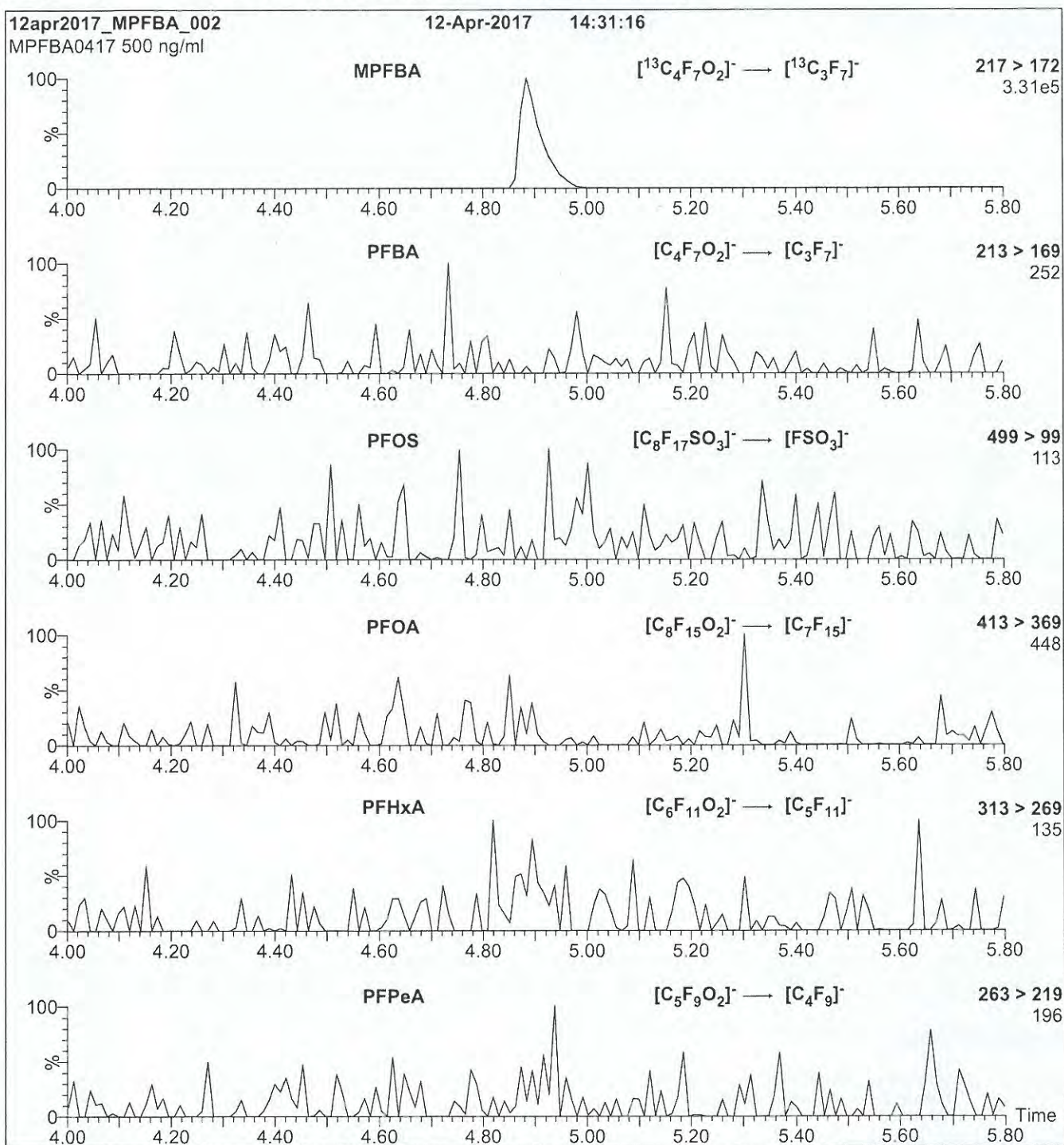
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

17J1018

Figure 2: MPFBA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MPFBA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.35e-3
Collision Energy (eV) = 10

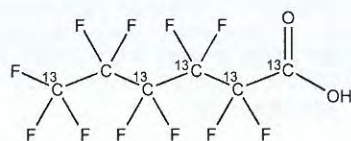
17J1019



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M5PFHxA LOT NUMBER: M5PFHxA0814
COMPOUND: Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid
STRUCTURE: CAS #: Not available



MOLECULAR FORMULA: 13C5 12C1 HF11 O2 MOLECULAR WEIGHT: 319.02
CONCENTRATION: 50 ± 2.5 µg/ml SOLVENT(S): Methanol, Water (<1%)
CHEMICAL PURITY: >98% ISOTOPIC PURITY: ≥99% 13C
LAST TESTED: 08/27/2014 (1,2,3,4,6-13C5)
EXPIRY DATE: 08/27/2019
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: B.G. Chittim Date: 03/31/2015

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J1019

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

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TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

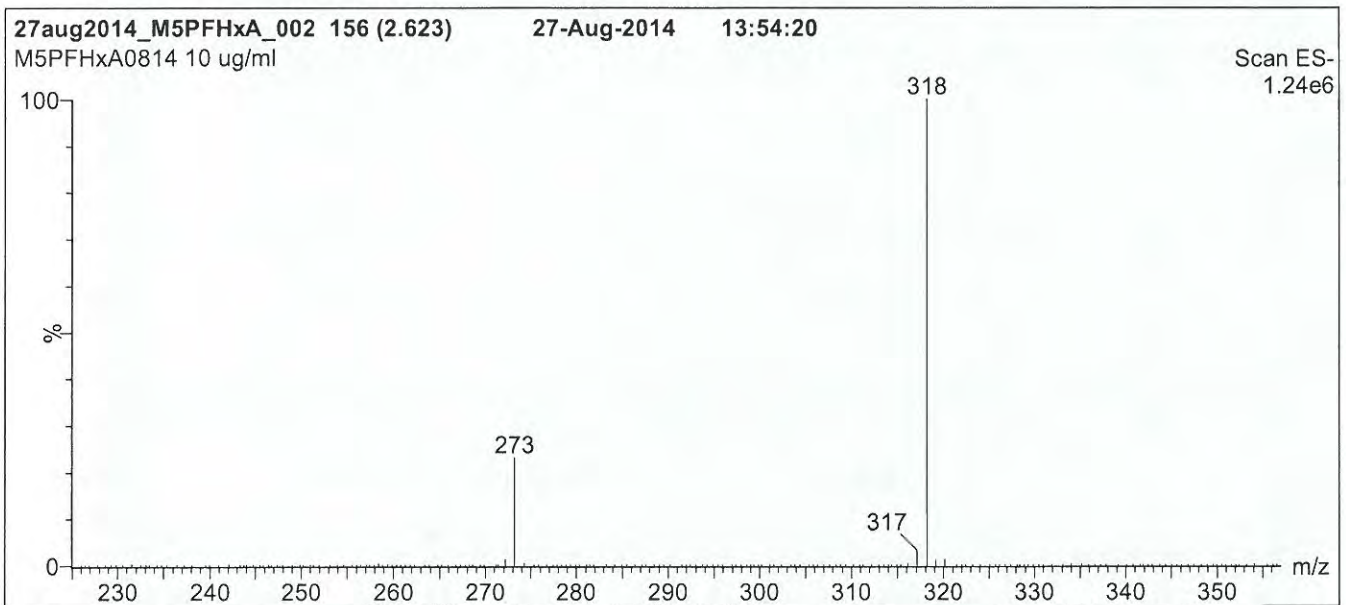
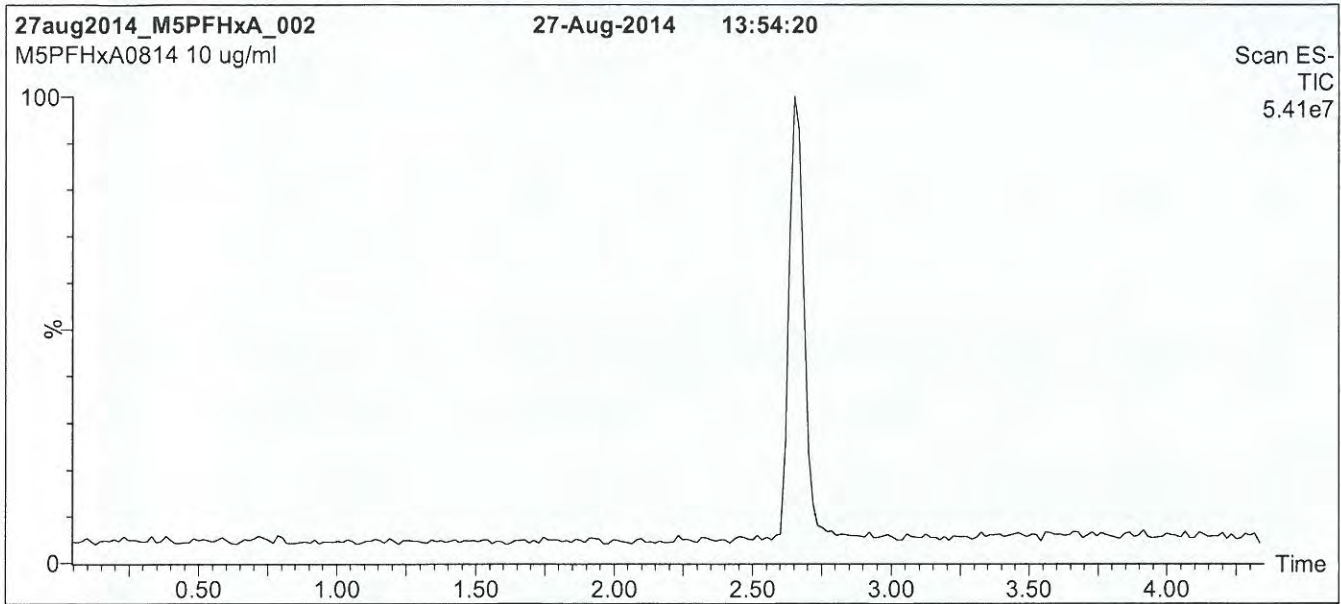
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17J1019

Figure 1: M5PFHxA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 40% (80:20 MeOH:ACN) / 60% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

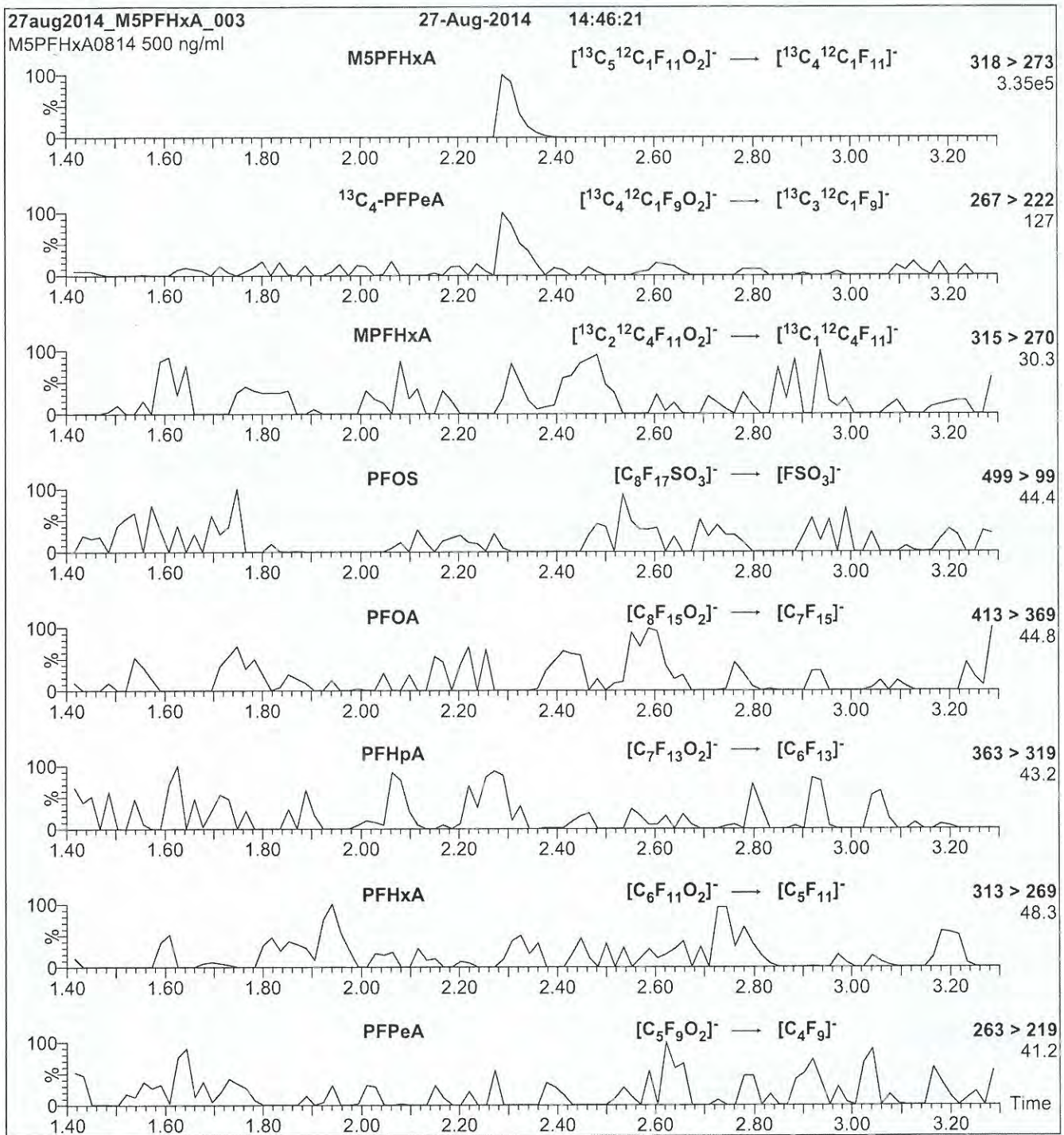
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

1751019

Figure 2: M5PFHxA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:		MS Parameters
Injection:	Direct loop injection 10 µl (500 ng/ml M5PFHxA)	Collision Gas (mbar) = 3.54e-3 Collision Energy (eV) = 10
Mobile phase:	Isocratic 80% (80:20 MeOH:ACN) / 20% H ₂ O (both with 10 mM NH ₄ OAc buffer)	
Flow:	300 µl/min	

17J1020



WELLINGTON LABORATORIES

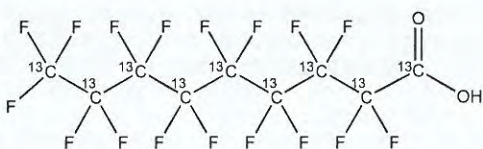
CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M9PFNA
COMPOUND: Perfluoro-n-[13C9]nonanoic acid

LOT NUMBER: M9PFNA0517

STRUCTURE:

CAS #: Not available



MOLECULAR FORMULA: 13C9HF17O2
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 473.01
SOLVENT(S): Methanol, Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 05/23/2017
EXPIRY DATE: (mm/dd/yyyy) 05/23/2022

ISOTOPIC PURITY: ≥99% 13C (13C9)

RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
Contains ~ 0.9% of 13C512C4HF17O2 (MPFNA).

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: [Signature] Date: 05/25/2017
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J1020

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

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LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

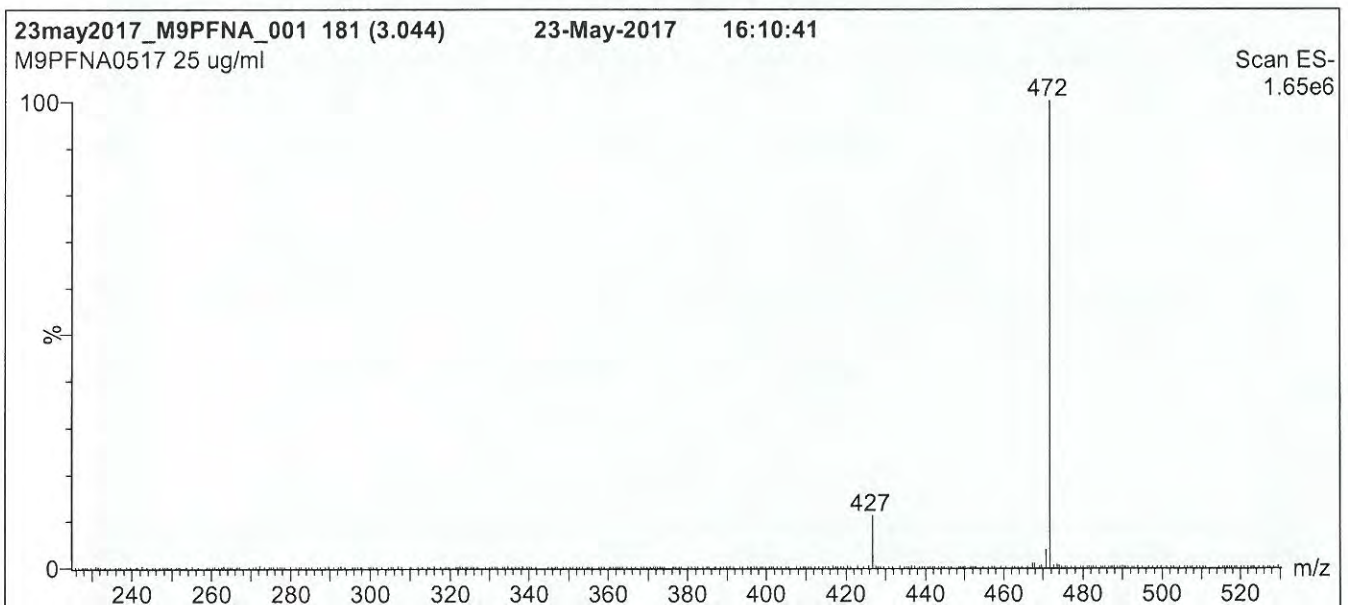
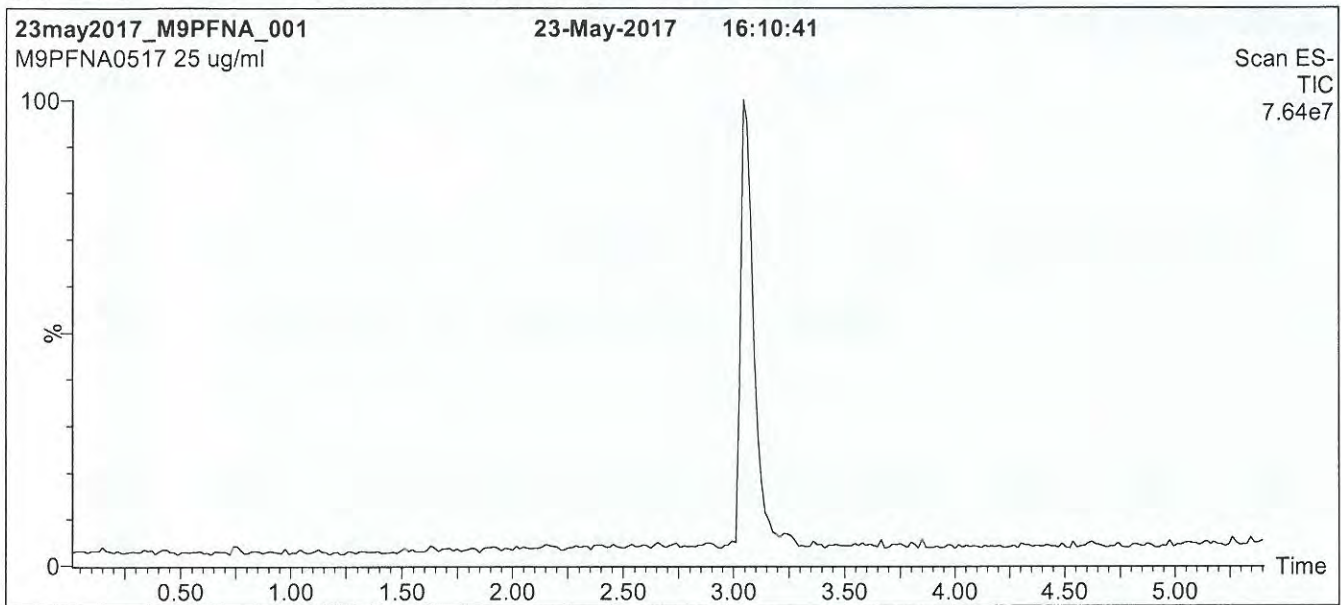
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17J1020

Figure 1: M9PFNA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient

Start: 60% (80:20 MeOH:ACN) / 40% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

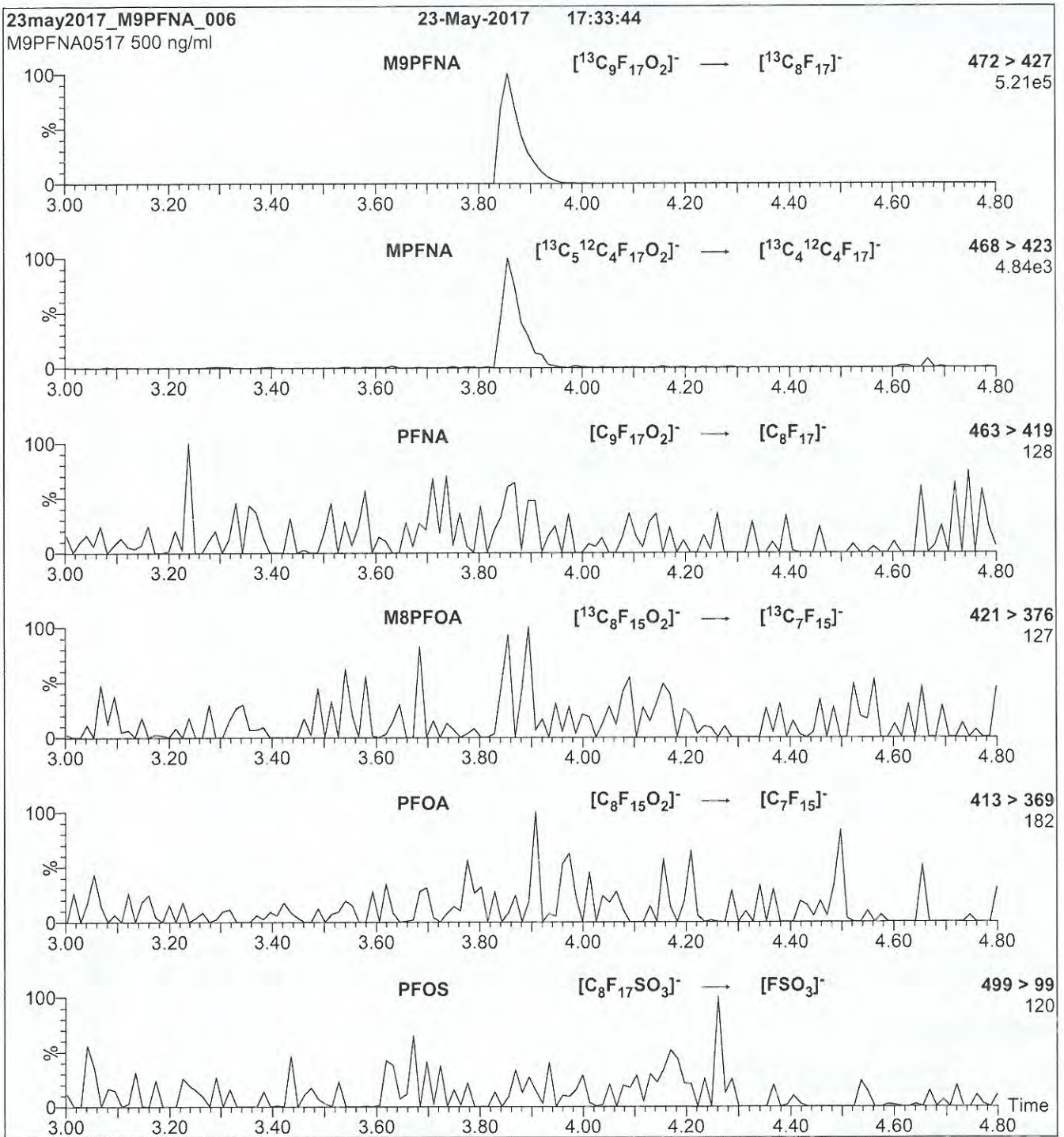
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

1751020

Figure 2: M9PFNA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M9PFNA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.20e-3
Collision Energy (eV) = 11

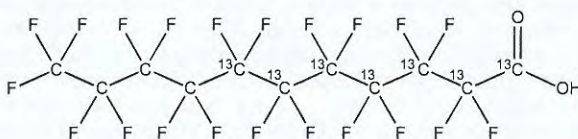
17J1021



WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M7PFUdA **LOT NUMBER:** M7PFUdA0717
COMPOUND: Perfluoro-n-[1,2,3,4,5,6,7-¹³C₇]undecanoic acid
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₇¹²C₄HF₂₁O₂ **MOLECULAR WEIGHT:** 571.04
CONCENTRATION: 50 ± 2.5 µg/ml **SOLVENT(S):** Methanol
Water (<1%)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
(1,2,3,4,5,6,7-¹³C₇)
LAST TESTED: (mm/dd/yyyy) 07/13/2017
EXPIRY DATE: (mm/dd/yyyy) 07/13/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

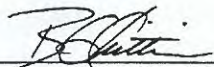
Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____


B.G. Chittim, General Manager

Date: 07/14/2017
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J 1021

INTENDED USE:

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HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

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where x is expressed as a relative standard uncertainty of the individual parameter.

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EXPIRY DATE / PERIOD OF VALIDITY:

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LIMITED WARRANTY:

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QUALITY MANAGEMENT:

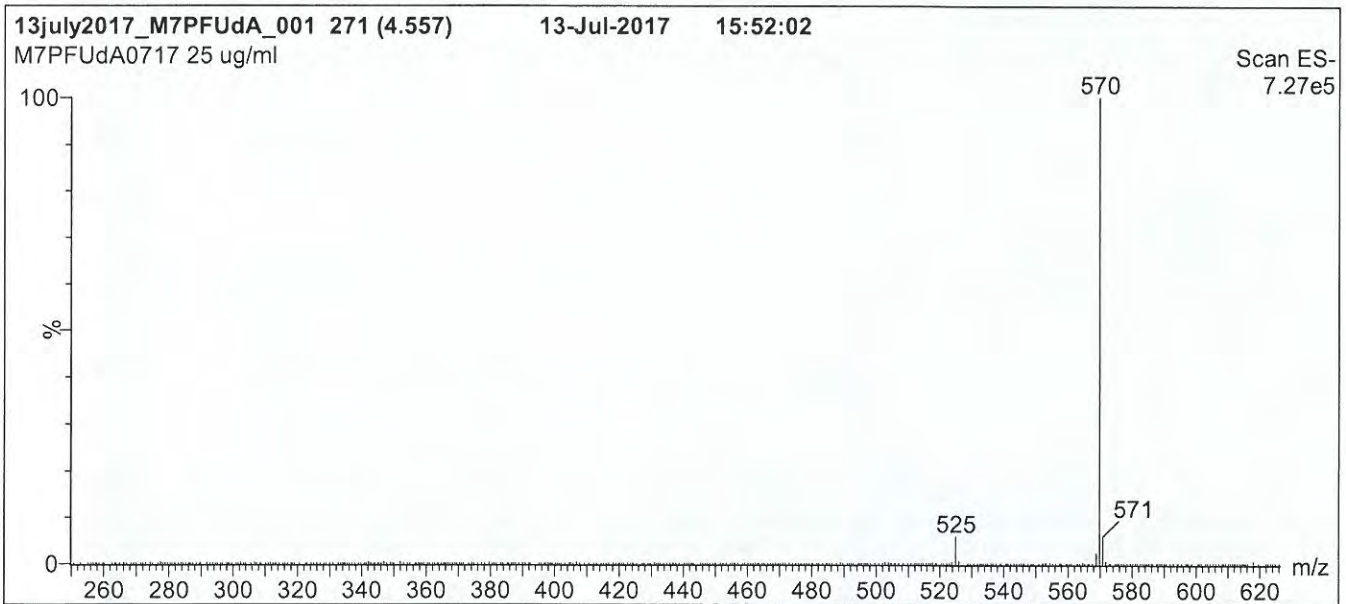
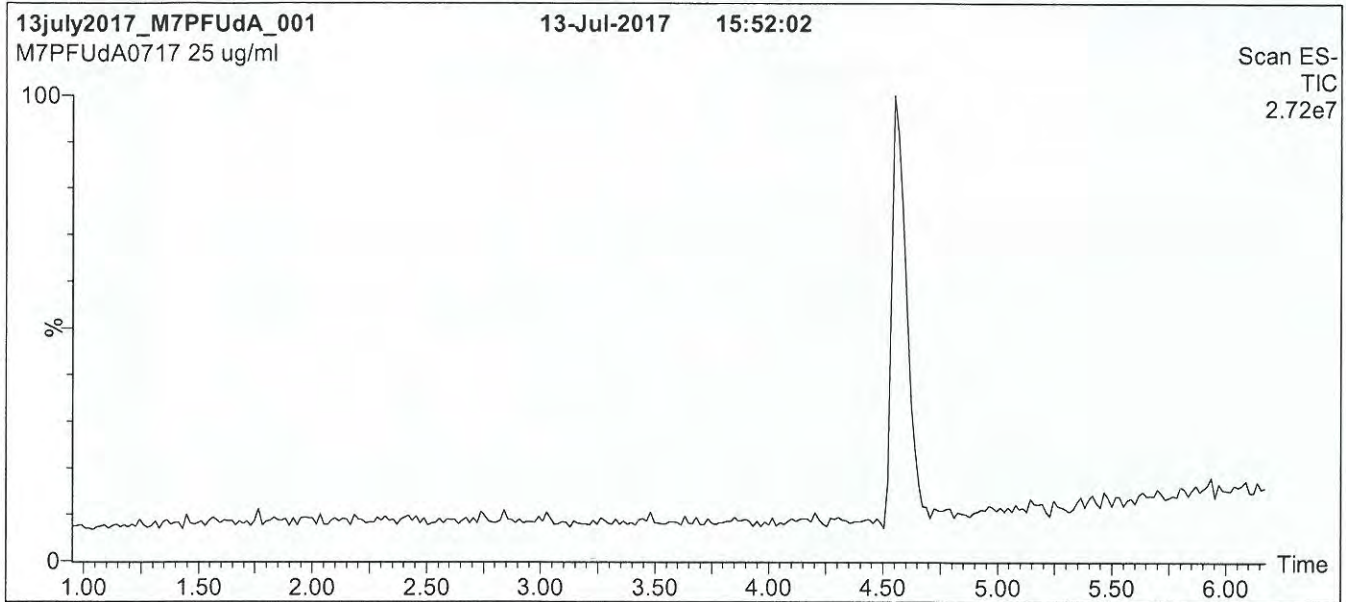
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17J1021

Figure 1: M7PFUdA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold for 2 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

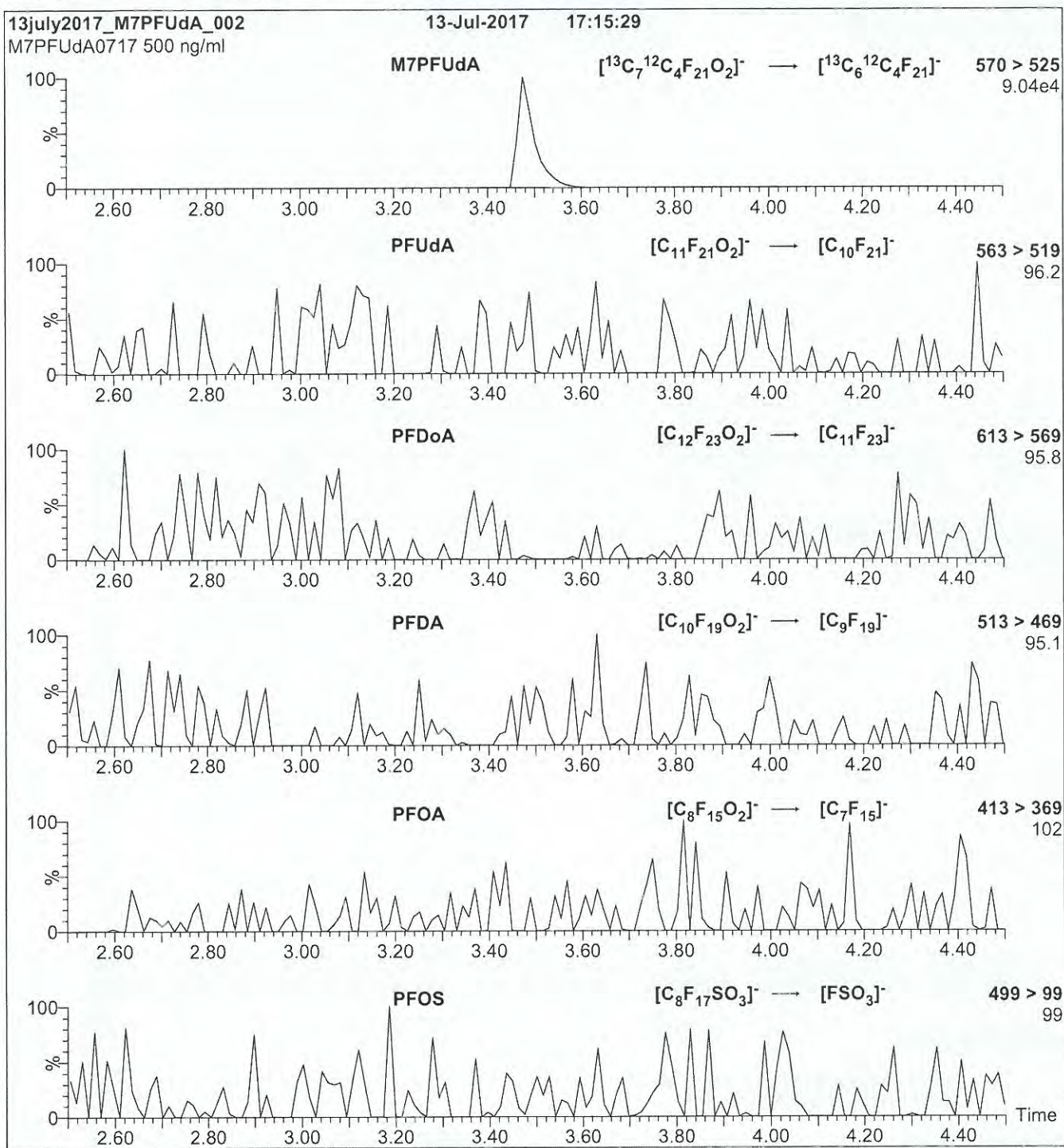
MS Parameters

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 15.00
Cone Gas Flow (l/hr) = 65
Desolvation Gas Flow (l/hr) = 750

17J1021

Figure 2: M7PFUdA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml M7PFUdA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

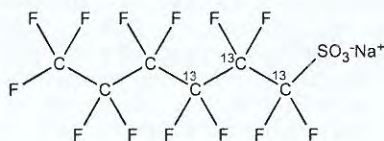
Collision Gas (mbar) = 3.28e-3
Collision Energy (eV) = 11

17J1022


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 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: M3PFHxS **LOT NUMBER:** M3PFHxS0717
COMPOUND: Sodium perfluoro-1-[1,2,3-¹³C₃]hexanesulfonate
STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₃¹²C<sub>3F₁₃SO₃Na **MOLECULAR WEIGHT:** 425.07
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.3 ± 2.4 µg/ml (M3PFHxS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 07/05/2017 (1,2,3-¹³C₃)
EXPIRY DATE: (mm/dd/yyyy) 07/05/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place</sub>

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:

 B.G. Chittim, General Manager

Date: 07/14/2017

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J1022

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

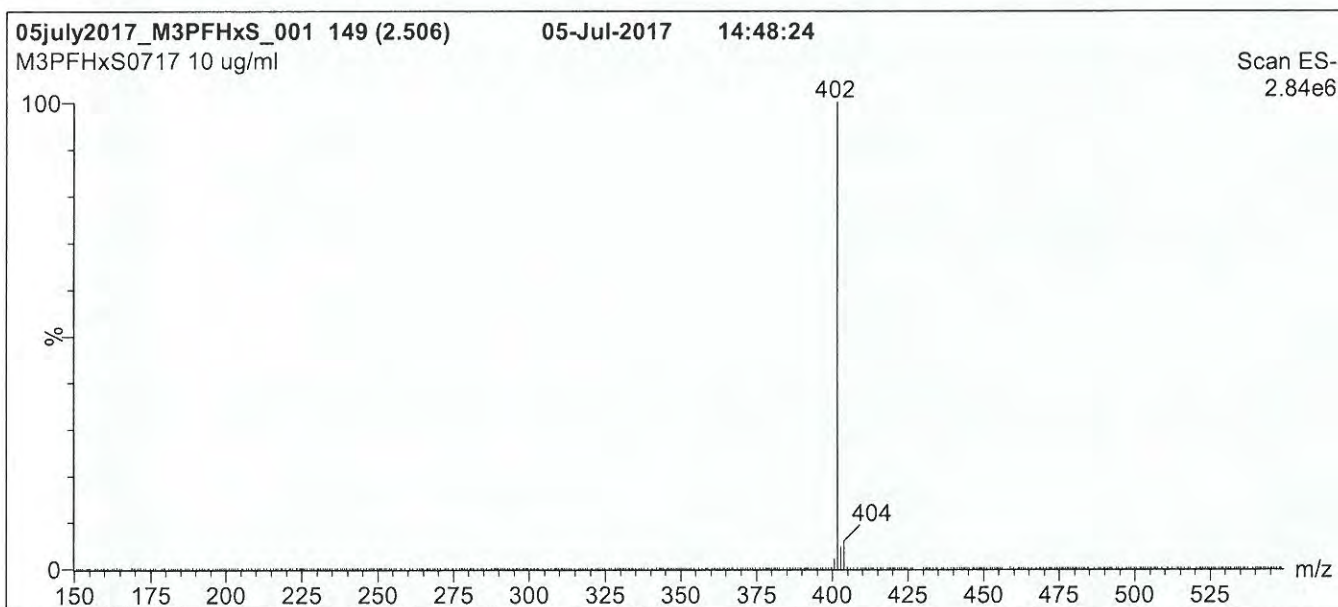
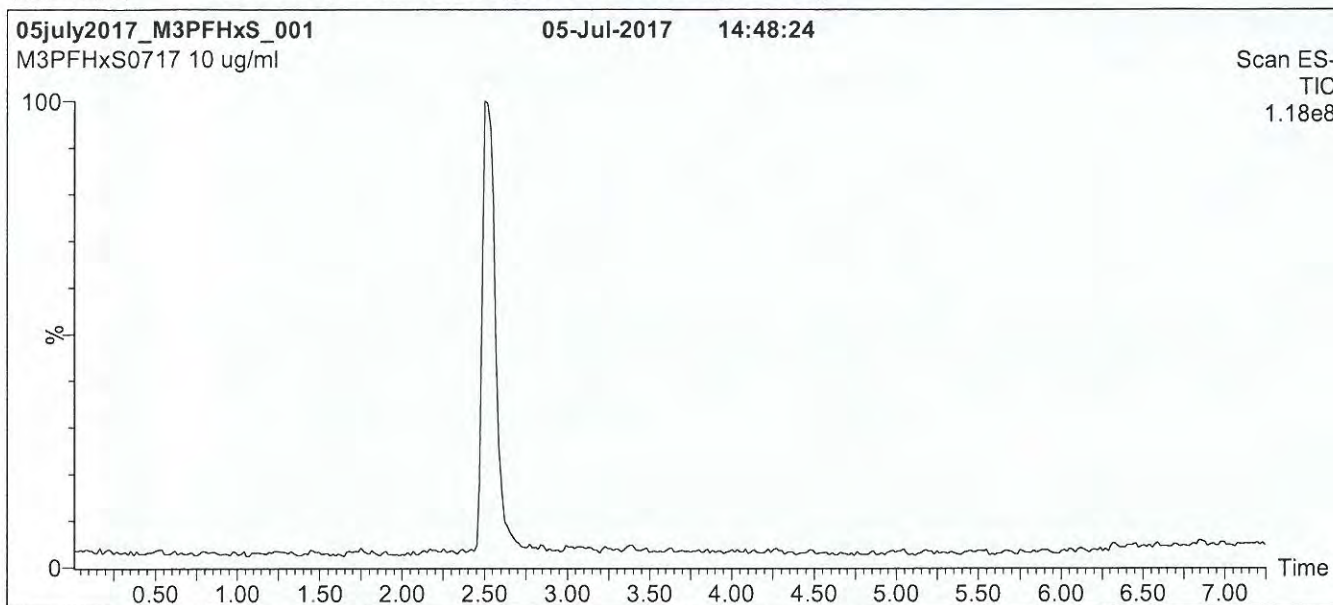
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

17J1022

Figure 1: M3PFHxS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% (80:20 MeOH:ACN) / 45% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7.5 min and hold for
1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

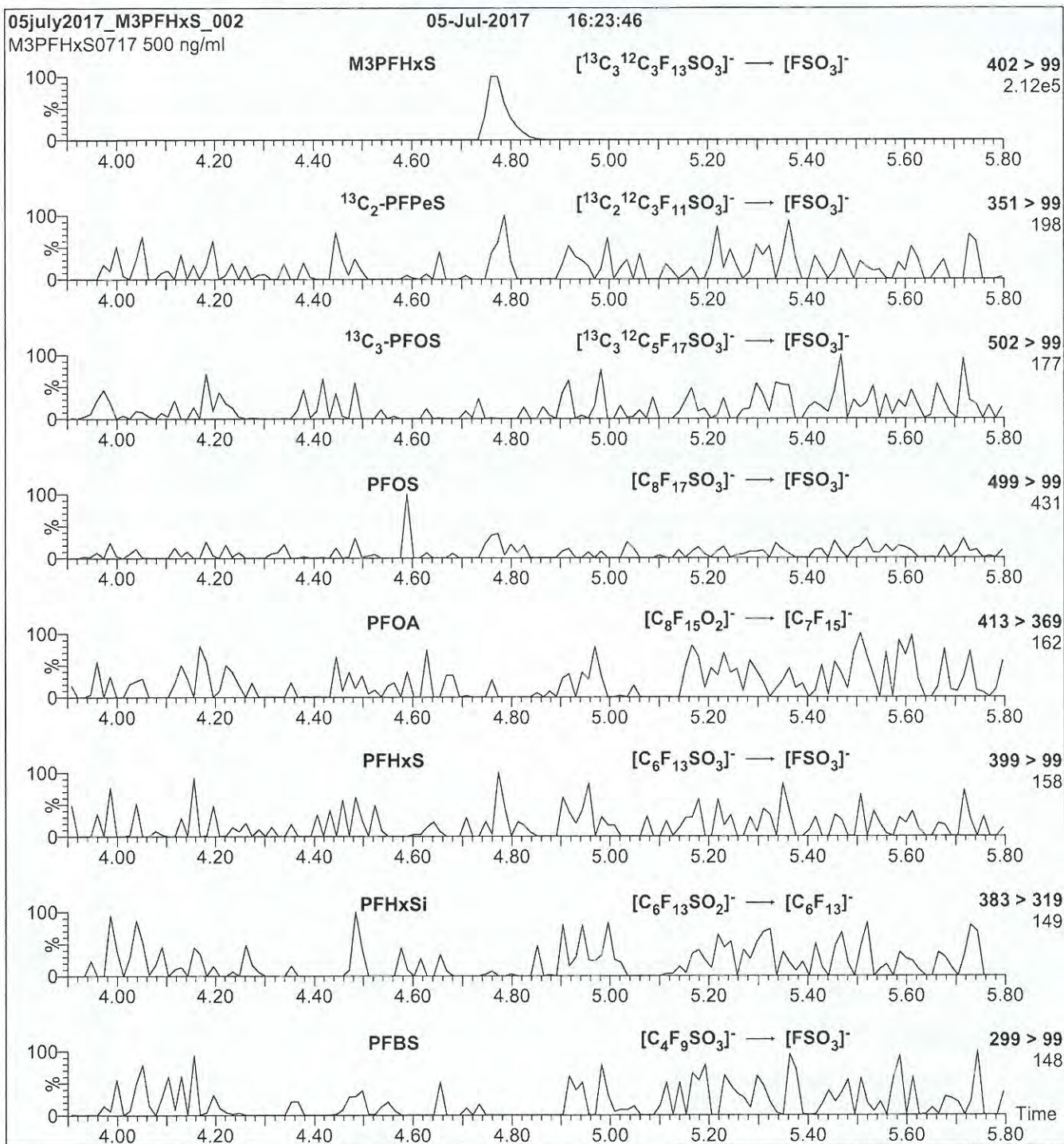
MS Parameters

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 50.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

1751022

Figure 2: M3PFHxS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml M3PFHxS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H₂O
(both with 10 mM NH₄OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 30

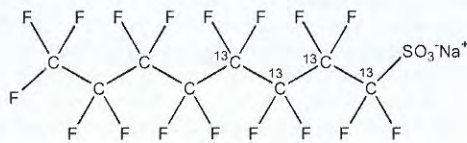
17J1023


WELLINGTON
 LABORATORIES

CERTIFICATE OF ANALYSIS
 DOCUMENTATION

PRODUCT CODE: MPFOS **LOT NUMBER:** MPFOS0517
COMPOUND: Sodium perfluoro-1-[1,2,3,4-¹³C₄]octanesulfonate

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₄¹²C₄F₁₇SO₃Na **MOLECULAR WEIGHT:** 526.08
CONCENTRATION: 50.0 ± 2.5 µg/ml (Na salt) **SOLVENT(S):** Methanol
 47.8 ± 2.4 µg/ml (MPFOS anion)
CHEMICAL PURITY: >98% **ISOTOPIC PURITY:** ≥99% ¹³C
LAST TESTED: (mm/dd/yyyy) 05/19/2017 (1,2,3,4-¹³C₄)
EXPIRY DATE: (mm/dd/yyyy) 05/19/2022
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 0.8% Sodium perfluoro-1-[1,2,3-¹³C₃]heptanesulfonate.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____

B.G. Chittim, General Manager

Date: 05/30/2017

(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J1023

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

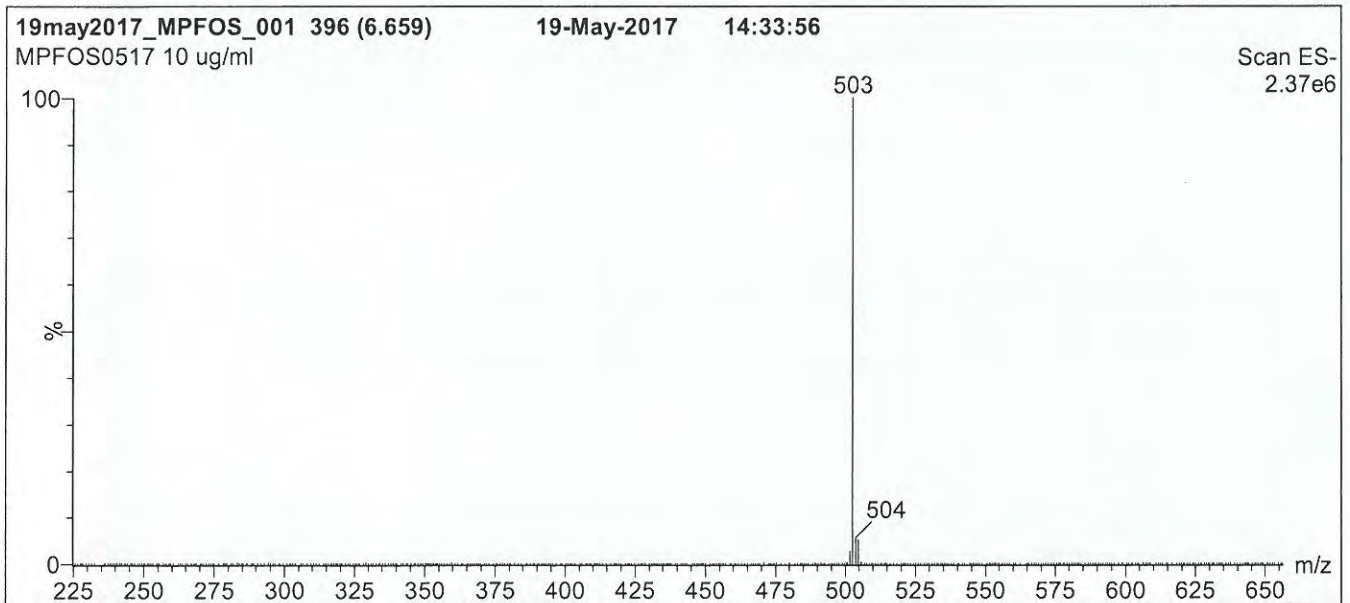
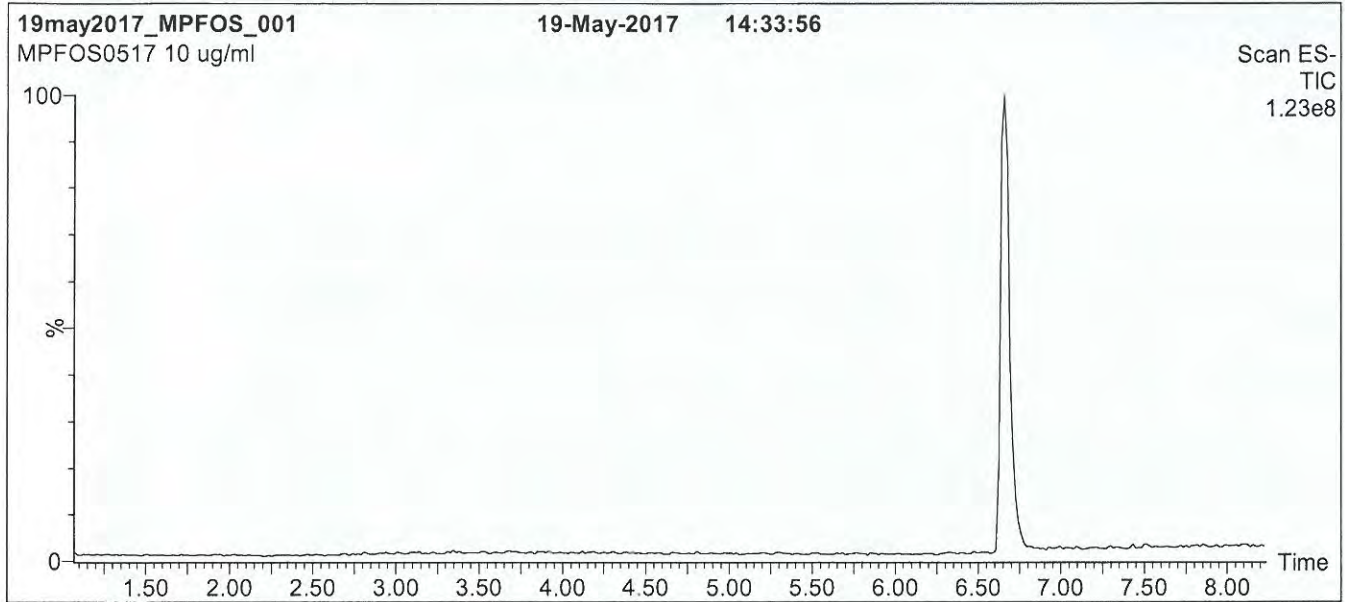
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17J1023

Figure 1: MPFOS; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 8 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

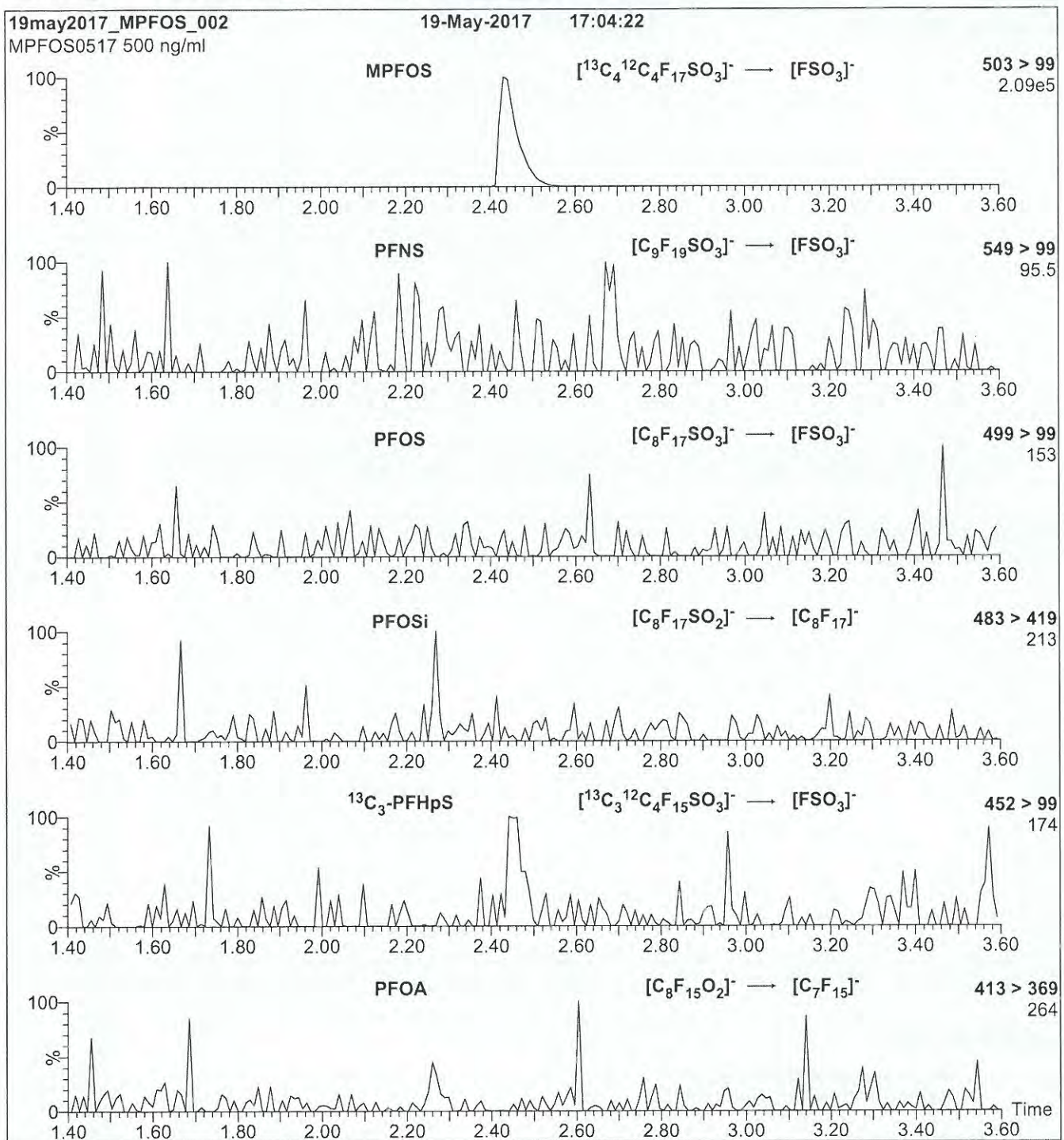
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 60.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

1751023

Figure 2: MPFOS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MPFOS)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

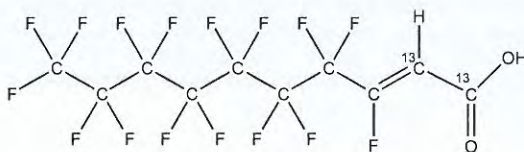
Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 40

17J1024


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**CERTIFICATE OF ANALYSIS
DOCUMENTATION**

PRODUCT CODE: MFOUEA **LOT NUMBER:** MFOUEA0716
COMPOUND: 2H-Perfluoro-[1,2-¹³C₂]-2-decenoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA: ¹³C₂¹²C₆H₂F₁₆O₂
CONCENTRATION: 50 ± 2.5 µg/ml

MOLECULAR WEIGHT: 460.08
SOLVENT(S): Anhydrous
 Isopropanol

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 08/02/2016
EXPIRY DATE: (mm/dd/yyyy) 08/02/2018
RECOMMENDED STORAGE: Refrigerate ampoule

ISOTOPIC PURITY: ≥99% ¹³C
 (1,2-¹³C₂)

DOCUMENTATION/ DATA ATTACHED:

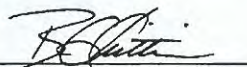
Figure 1: LC/MS Data (TIC and Mass Spectrum)
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Dilution of this standard in methanol may lead to the formation of 2H-3-methoxy-perfluoro-[1,2-¹³C₂]-2-decenoic acid. This reaction can be catalyzed by the presence of acid or base. All dilutions should be routinely checked for degradation.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By:


 B.G. Chittim

Date: 08/19/2016
 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
 519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

17J1024

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

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SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2, \dots, x_n on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of $\pm 5\%$ (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

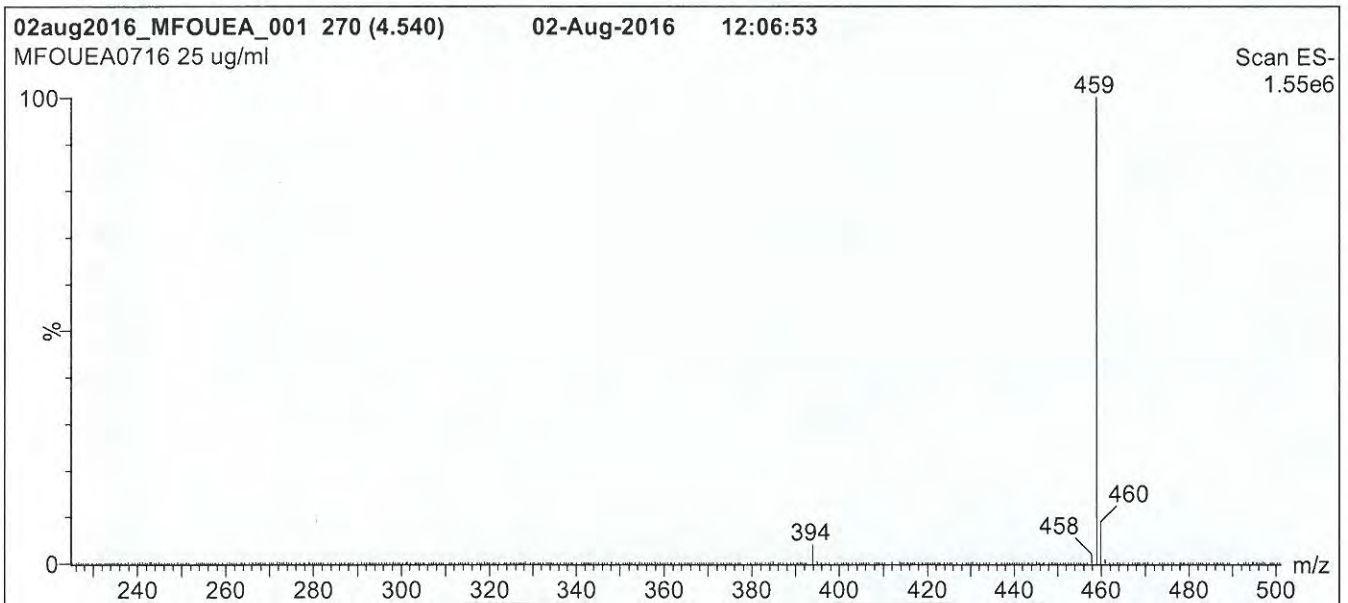
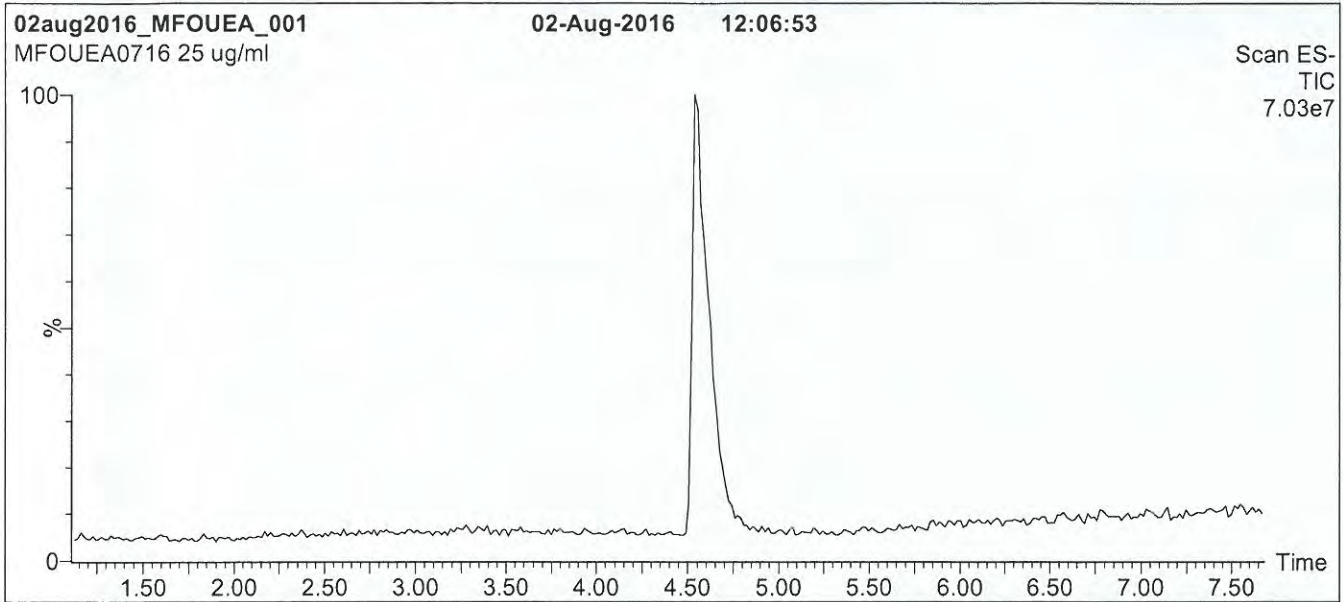
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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17J1024

Figure 1: MFOUEA; LC/MS Data (TIC and Mass Spectrum)



Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP₁₈
1.7 μ m, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H₂O
(both with 10 mM NH₄OAc buffer)
Ramp to 90% organic over 7 min and hold
for 1.5 min before returning to initial conditions in 0.5 min.
Time: 10 min

Flow: 300 μ l/min

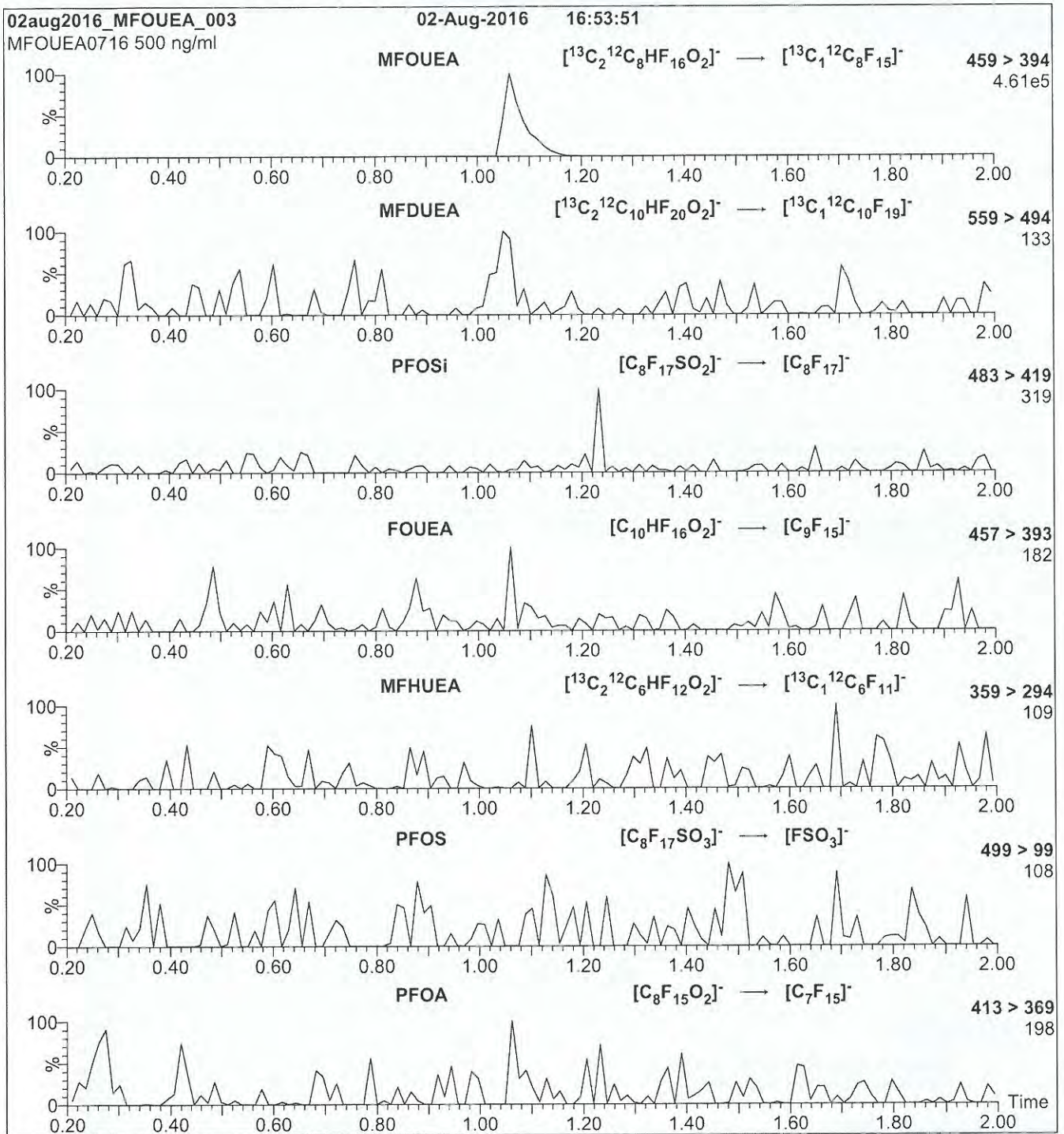
MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 14.00
Cone Gas Flow (l/hr) = 60
Desolvation Gas Flow (l/hr) = 750

17J1024

Figure 2: MFOUEA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 μl (500 ng/ml MFOUEA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 $\mu\text{l}/\text{min}$

MS Parameters

Collision Gas (mbar) = 3.39e-3
Collision Energy (eV) = 21